

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

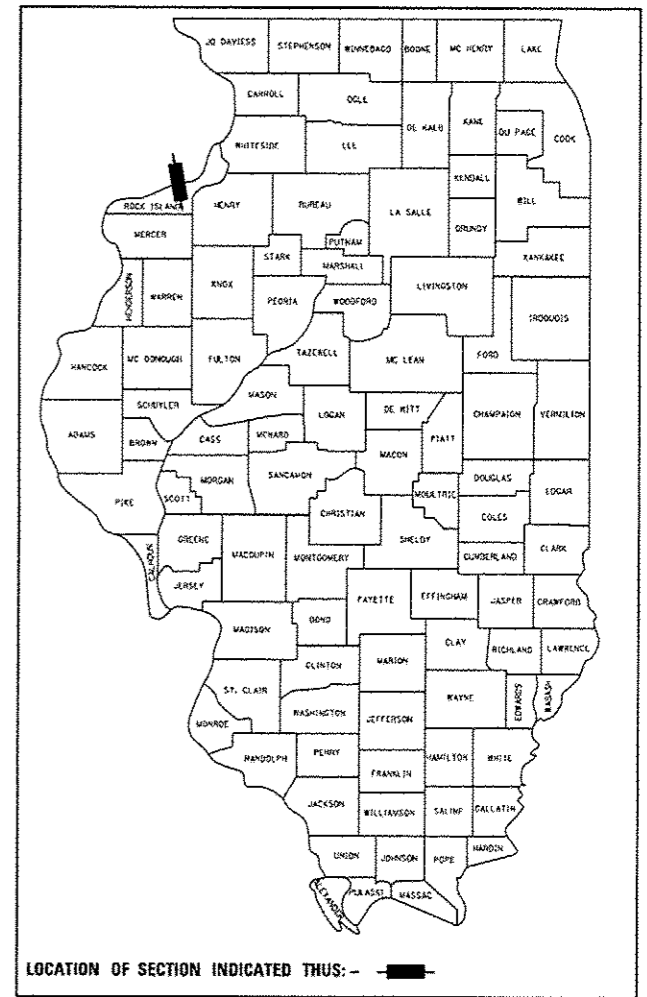
F.A.P. ROUTE 308 (US 67)
SECTION (3BR)M

TYPE OF IMPROVEMENT: BRIDGE REPAIR
ROCK ISLAND COUNTY
C-92-090-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BR)M	ROCK ISLAND	47	1
		ILLINOIS	CONTRACT NO. 64H28	

X 47 + 2 = 49

D-92-098-11



LOCATION OF SECTION INDICATED THUS: - [Black Box] -

PROJECT ENGINEER: MAHMOUD ETEMADI
PHONE: 815-284-5393

SENIOR SQUAD LEADER: CHRIS CONDERMAN
PHONE: 815-284-5955; DIXON, IL

DESIGN CONSULTANT
STV INCORPORATED
PHONE: 312-553-0655; CHICAGO, IL

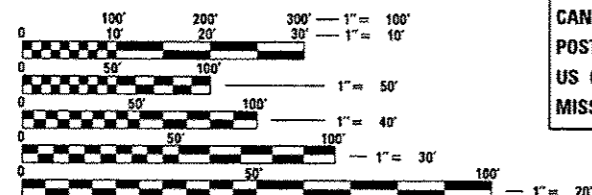
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- 3 SUMMARY OF QUANTITIES
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- 5-8 DETOUR PLAN
- 9-13 MAINTENANCE OF PEDESTRIAN TRAFFIC
- 14-46 STRUCTURE PLANS
- 47 TRAFFIC CONTROL FOR ROAD CLOSURE (40.1)

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 631032-08 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-04 OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600mm) FROM PAVEMENT EDGE
- 701411-08 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
- 701421-06 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45MPH TO 55MPH
- 701427-02 LANE CLOSURE, MULTILANE, INTERMITTANT OR MOVING OPER., FOR SPEEDS ≤ 40MPH
- 701451-02 RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-09 URBAN LANE CLOSURE, MULTILANE, INTERSECTION
- 701801-05 SIDEWALK, CORNER, OR CROSSWALK CLOSURE
- 701901-03 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATION OF TYPES A & B METAL POSTS

ADT = 31,200 (2012)
SU /MU = 625 (2012)



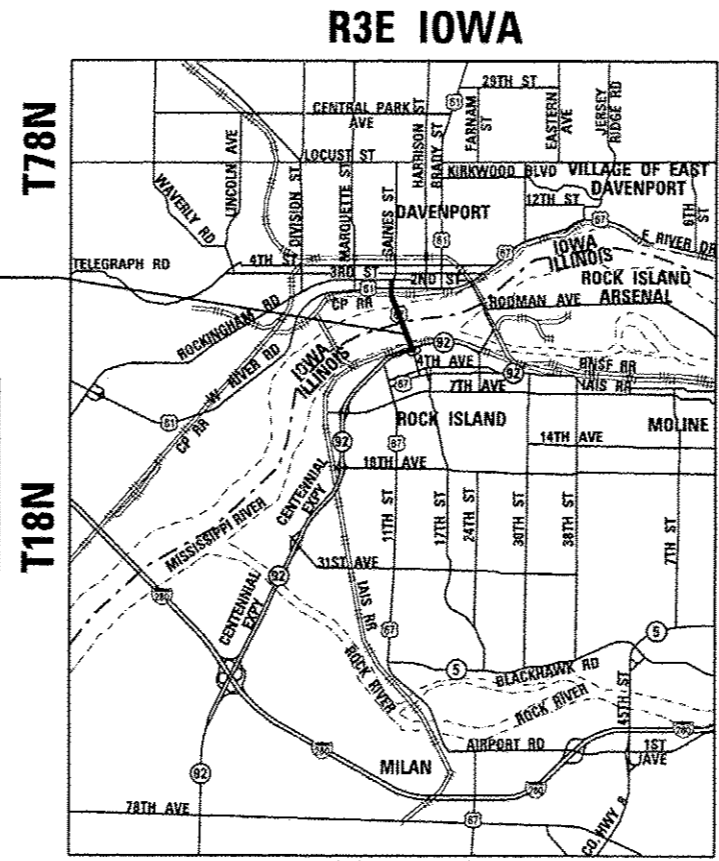
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

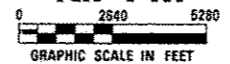
DESCRIPTION OF IMPROVEMENT

THE IMPROVEMENT CONSISTS OF STRUCTURAL STEEL REPAIRS: BEAMS, BRACKETS, HANGERS, CANOPY AND JOINT REPAIRS, HANDRAIL AND POSTS REPLACEMENT TO STRUCTURE CARRYING US 67 (CENTENNIAL BRIDGE) OVER THE MISSISSIPPI RIVER (S.N. 081-9905).

SN # 081-9905



R2W ILLINOIS
4th PM



GROSS LENGTH OF IMPROVEMENT = 3854 FT = 0.730 MILES
NET LENGTH OF IMPROVEMENT = 3854 FT = 0.730 MILES

AWRENCE L. KIRCHNER
002-049684
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

EXPIRES: 11/30/2015
SEALED: 11/22/2013
SHEETS: _____

LAWRENCE L. KIRCHNER
REGISTERED
STRUCTURAL ENGINEER
STATE OF ILLINOIS
081-085343
CHICAGO, ILLINOIS

EXPIRES: 11/30/2014
SEALED: 11/22/2013
SHEETS: _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 2nd 20 13

Paul C. C...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Braunzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 24 20 14

Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PLANS PREPARED BY
STV Incorporated
engineers/architects/scientists/construction managers
Chicago, Illinois (312)553-0655

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

ROCK ISLAND TOWNSHIP, SECTIONS: 35, 26

CONTRACT NO. 64H28

F.A.P. ROUTE 308, SECTION (3BR)M, ROCK ISLAND COUNTY

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. FOLLOWING ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS WHICH ARE MEMBERS OF JULIE:

NAME AND ADDRESS OF UTILITY	TYPE OF UTILITY	TELEPHONE	MEMBER OF J.U.L.I.E.
DAVE CREEN AT&T 2800-7TH STREET MOLINE, IL 61265	TELEPHONE	(309) 757-4707	YES
JASON TERRY MIDAMERICAN ENERGY COMPANY 2811-5TH AVENUE ROCK ISLAND, IL 61201	ELECTRIC	(309) 793-3649	YES
ROD HAWK MIDAMERICAN ENERGY COMPANY 2811-5TH AVENUE ROCK ISLAND, IL 61201	GAS	(309) 793-3760	YES
BRENT GIESE CENTURYLINK-WEST COMMUNICATIONS 3908 UTICA RIDGE ROAD BETTENDORF, IA 52722	TELEPHONE	(563) 355-6402	YES
PAUL BAUMANN WINDSTREAM 1815 S. MEYERS ROAD, SUITE 900 OAKBROOK TERRACE, IL 60181	TELEPHONE	(630) 925-4751	YES
DENNIS JARDING MEDIACOM 3900-26TH AVENUE MOLINE, ILLINOIS 61265	CATV	(309) 743-4750	YES
KEN BAILEY MCI WORLD COM 2400 N. GLENVILLE, DEPT 401103/107 ATTN: INVESTIGATIONS, DEPT. 42864/107 RICHARDSON, TX 75082	TELEPHONE	(972) 729-6016	YES
JIM JOHNSON CITY OF ROCK ISLAND 1309 MILL STREET ROCK ISLAND, ILLINOIS 61201	WATER & SEWER	(309) 732-2238	YES

2. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
3. THIS STRUCTURE WILL RETAIN THE SAME NUMBER 081-9905.
4. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2.

FILE NAME = I:\Projects\4819558\4819558_001.dwg Models and Sheets\07_Civil\Sheets\025428-general.dwg

USER NAME = thompson	DESIGNED - RDT/GC	REVISED -
	DRAWN - RDT	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED - JAC	REVISED -
PLOT DATE = 11/22/2013	DATE - 11-08-2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET NO. 2 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	13BRM	ROCK ISLAND	47	2
C-92-090-12		CONTRACT NO. 64H28		
(ILLINOIS) FED. AID PROJECT HSIP-XXXX (XXX)				

SUMMARY OF QUANTITIES

URBAN
50% IL / 50% IOWA

ITEM #	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014
50102400	CONCRETE REMOVAL	CU YD	10.0		10.0
50157300	PROTECTIVE SHIELD	SQ YD	357		357
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.0		10.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	29,322		29,322
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,240		1,240
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	94		94
52100540	ANCHOR BOLTS, 1 1/2"	EACH	4		4
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1		1
64300240	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1		1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3		3
67100100	MOBILIZATION	L SUM	1		1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1		1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4		4
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12		12
* 70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		1
* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	553	553	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	184	184	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4		4
X0321309	CONCRETE PAD	SQ YD	11		11
X0322559	BOLT REPLACEMENT	EACH	165		165
X0323391	STEEL BRIDGE RAIL POSTS	EACH	61		61
X0325583	REMOVE AND REINSTALL FINGER PLATE JOINT	EACH	2		2
X5090100	FURNISH AND INSTALL HANDRAIL	FOOT	3,404		3,404
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	28,769		28,769
Z0001905	STRUCTURAL STEEL REPAIR	POUND	49,140		49,140
Z0005880	BRIDGE HANDRAIL REMOVAL	FOOT	3,404		3,404
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1		1
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 6 INCHES)	SQ FT	588		588
Z0018800	DRAINAGE SYSTEM	L SUM	1		1
Z0021922	SILICONE JOINT SEALER	FOOT	14		14
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	14		14
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	2		2
X0327943	CANOPY REPAIR	L SUM	1		1
X0336238	GRINDING AND REMOVAL OF TACK WELDS	EACH	3		3

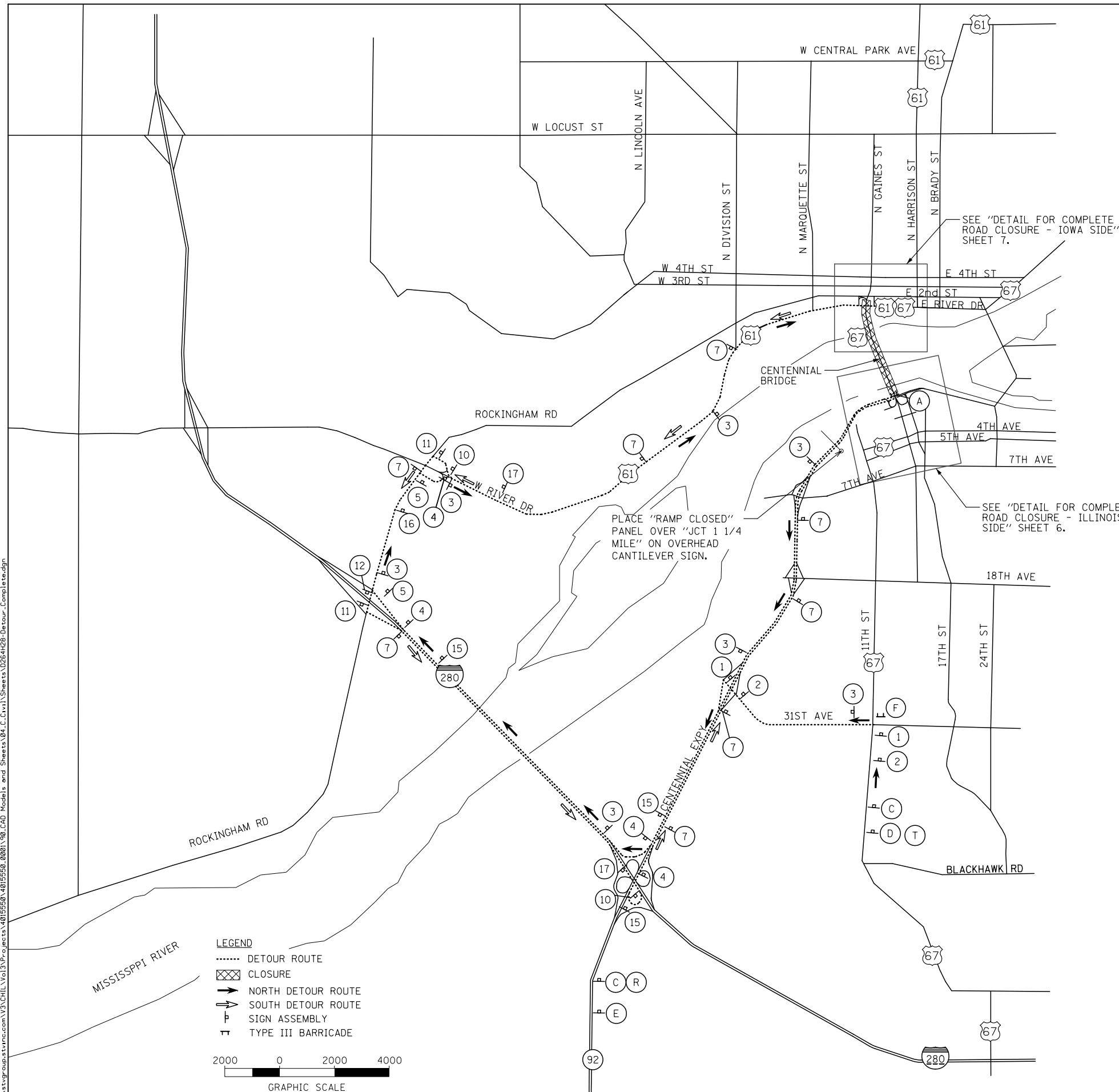
* SPECIALTY ITEM

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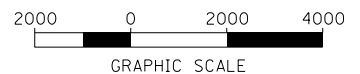
Rev.

USER NAME = thompard	DESIGNED - RDT/GC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 67 OVER MISSISSIPPI RIVER STRUCTURE NO. 081-9905		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / in.	DRAWN - RDT	REVISED -		SUMMARY OF QUANTITIES 1		308	138RM	ROCK ISLAND	47	3
PLOT DATE = 11/27/2013	CHECKED - JAC	REVISED -		SCALE:	SHEET NO. 3 OF 47 SHEETS	STA.	C-92-090-12		CONTRACT NO. 64H28	
	DATE - 11-08-2013	REVISED -				TO STA.	[ILLINOIS] FED. AID PROJECT NSIP-XXXX (XXX)			

FILE NAME: \\stgpcoua\stgpcoua\Projects\4015550\4015550_0001\90_CAD_Models_and_Sheets\04_Civil\Sheets\0264428-Detour_Complete.dgn



LEGEND
 DETOUR ROUTE
 [X] CLOSURE
 → NORTH DETOUR ROUTE
 ← SOUTH DETOUR ROUTE
 [P] SIGN ASSEMBLY
 [T] TYPE III BARRICADE



R11-2 48"X30" ROAD CLOSED	W20-3 48"X48" RAMP CLOSED AHEAD	W20-3 48"X48" DETOUR AHEAD	W20-2 48"X48" ROAD CLOSED 2 MILES	US 67 BRIDGE CLOSED FOLLOW MARKED DETOUR CHANGEABLE MESSAGE SIGN	
(A)	(B)	(C)	(D)	(E)	
R11-3a 60"X30" ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a 60"X30" NORTH US 67	NO ACCESS TO IOWA	SOUTH US 67		
(F)	(R)	(T)	(U)		
PLATE TO GO BELOW SIGNS					
DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M6-1L 21"X15"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M6-6L 21"X15"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-3 21"X15"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M6-2 21"X15"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M6-1 21"X15"	END DETOUR NORTH 67 M1-4 M4-8A 24"X18" M3-1 24"X12"
(1)	(2)	(3)	(4)	(5)	(6)
DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-3 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-1 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-6 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-2 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-1L 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M6-6L 21"X15"
(7)	(8)	(9)	(10)	(11)	(12)
END DETOUR SOUTH 67 M1-4 M4-8A 24"X18" M3-3 24"X12"	ROAD CLOSED AHEAD W20-3 48"X48"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M5-2R 21"X15"	DETOUR NORTH 67 M1-4 M4-8 24"X12" M3-1 24"X12" M6-6 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M3-3 24"X12" M5-2R 21"X15"	DETOUR SOUTH 67 M1-4 M4-8 24"X12" M6-3 21"X15"
(13)	(14)	(15)	(16)	(17)	(18)
TO ILLINOIS 92 M1-1100 M4-5 24"X12" M6-6L 21"X15"	TO ILLINOIS 92 M1-1100 M4-5 24"X12" M6-1L 21"X15"	END DETOUR M4-8A 24"X18"			
(19)	(20)	(21)			

NOTE:
SEE SHEET 9 FOR PEDESTRIAN TRAFFIC CONTROL STAGING NOTES.

USER NAME = thompsrd	DESIGNED - RDT/GC	REVISED -
DRAWN - RDT	REVISOR -	REVISED -
PLOT SCALE = 4000.0000' / in.	CHECKED - JAC	REVISED -
PLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISED -

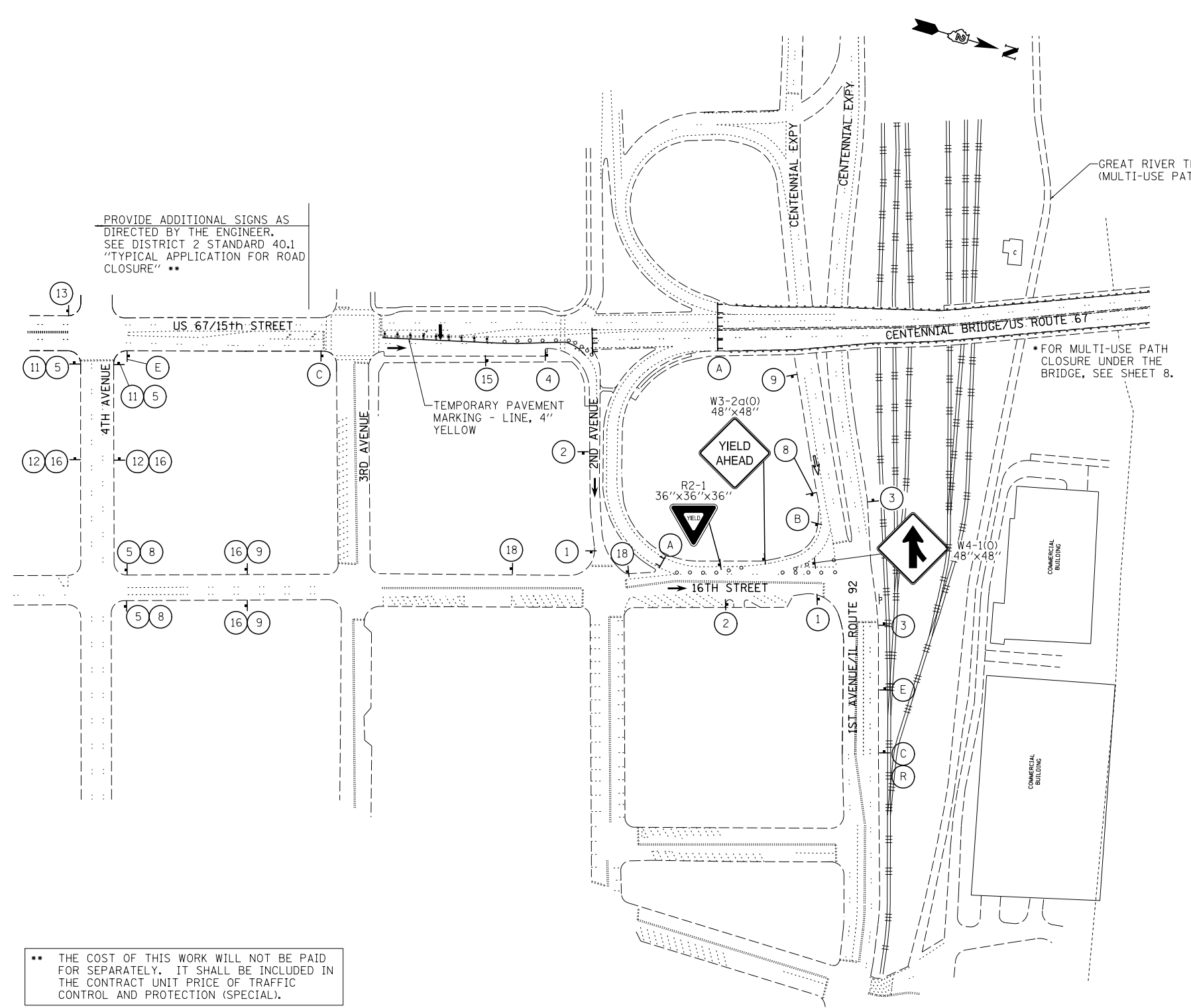
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 67 OVER MISSISSIPPI RIVER STRUCTURE NO.081-995
BRIDGE CLOSURE DETOUR PLAN**

SCALE: 1" = 4000' SHEET NO. 5 OF 47 SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 308	SECTION (3BRM)	COUNTY ROCK ISLAND	TOTAL SHEETS 47	SHEET NO. 5
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

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** THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY. IT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

R11-2 48"x30" ROAD CLOSED	W20-3 48"x48" RAMP CLOSED AHEAD	W20-2 48"x48" DETOUR AHEAD	W20-3 48"x48" ROAD CLOSED 2 MILES	US 67 BRIDGE CLOSED	FOLLOW MARKED DETOUR
(A)	(B)	(C)	(D)	CHANGEABLE MESSAGE SIGN	
R11-3a 60"x30" ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a 60"x30" NORTH US 67	NO ACCESS TO IOWA	SOUTH US 67		
(F)	(R)	(T)	(U)	PLATE TO GO BELOW SIGNS	
DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	END DETOUR NORTH 67 M4-8A 24"x18" M3-1 24"x12" M1-4
(1)	(2)	(3)	(4)	(5)	(6)
DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4
(7)	(8)	(9)	(10)	(11)	(12)
END DETOUR SOUTH 67 M4-8A 24"x18" M3-3 24"x12" M1-4	ROAD CLOSED AHEAD W20-3 48"x48"	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR NORTH 67 M4-8 24"x12" M3-1 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4	DETOUR SOUTH 67 M4-8 24"x12" M3-3 24"x12" M1-4
(13)	(14)	(15)	(16)	(17)	(18)
TO ILLINOIS 92 M4-5 24"x12" M1-1100 M6-6L 21"x15"	TO ILLINOIS 92 M4-5 24"x12" M1-1100 M6-1L 21"x15"	END DETOUR M4-8A 24"x12"			
(19)	(20)	(21)			

- LEGEND**
- ← NORTHBOUND DETOUR
 - ⇐ SOUTHBOUND DETOUR
 - ⊥ SIGN ASSEMBLY
 - TYPE I BARRICADE OR DRUM
 - ⊞ TYPE III BARRICADE

NOTE:
SEE SHEET 9 FOR PEDESTRIAN TRAFFIC CONTROL STAGING NOTES.
SEE SEPARATE MAINTENANCE OF PEDESTRIAN TRAFFIC PLANS FOR INFORMATION REGARDING PEDESTRIAN ACCOMMODATIONS DURING THE BRIDGE CLOSURE.

USER NAME = thompsrd	DESIGNED - RDT/GC	REVISED -
DRAWN - RDT	REVISOR -	
PLOT SCALE = 200.0000' / in.	CHECKED - JAC	REVISOR -
PLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISOR -

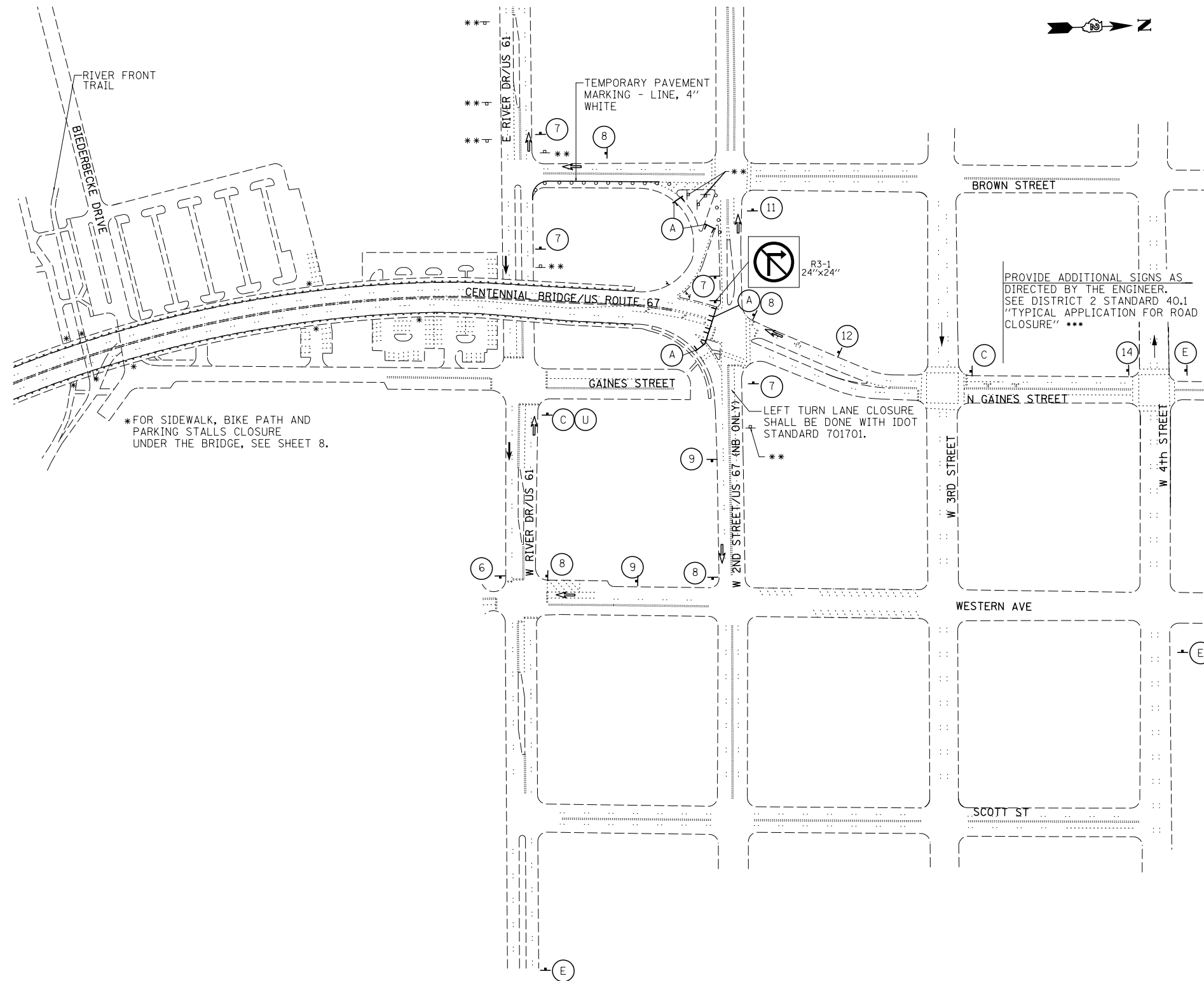
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 67 OVER MISSISSIPI RIVER STRUCTURE NO. 081-9905
DETAIL FOR COMPLETE ROAD CLOSURE - ILLINOIS SIDE**

SCALE: 1" = 100' SHEET NO. 6 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	6
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

FILE NAME = I:\Projects\4015550\4015550_0801\98_CAD_Models_and_Sheets\04_C.Civil\Sheets\0264H28-Detour_Comp_Iowa.dgn



US 67 BRIDGE CLOSED

FOLLOW MARKED DETOUR

CHANGEABLE MESSAGE SIGN

R11-2
48"X30"

ROAD CLOSED

(A)

W20-3
48"X48"

RAMP CLOSED AHEAD

(B)

W20-3
48"X48"

DETOUR AHEAD

(C)

W20-2
48"X48"

ROAD CLOSED 2 MILES

(D)

R11-3g
60"X30"

ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY

(F)

NORTH US 67

(R)

NO ACCESS TO IOWA

(T)

SOUTH US 67

(U)

PLATE TO GO BELOW SIGNS

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-1L 21"X15"

(1)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-6L 21"X15"

(2)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-3 21"X15"

(3)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-2 21"X15"

(4)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-1 21"X15"

(5)

END DETOUR NORTH 67

M4-8A 24"X18"

M3-1 24"X12"

M1-4

(6)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-3 21"X15"

(7)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-1 21"X15"

(8)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-6 21"X15"

(9)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-2 21"X15"

(10)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-1L 21"X15"

(11)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-6L 21"X15"

(12)

END DETOUR SOUTH 67

M4-8A 24"X18"

M3-3 24"X12"

M1-4

(13)

ROAD CLOSED AHEAD

W20-3 48"X48"

(14)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M5-2R 21"X15"

(15)

DETOUR NORTH 67

M4-8 24"X12"

M3-1 24"X12"

M1-4

M6-6 21"X15"

(16)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M5-2R 21"X15"

(17)

DETOUR SOUTH 67

M4-8 24"X12"

M3-3 24"X12"

M1-4

M6-3 21"X15"

(18)

TO ILLINOIS 92

M4-5 24"X12"

M1-1100

M6-6L 21"X15"

(19)

TO ILLINOIS 92

M4-5 24"X12"

M1-1100

M6-1L 21"X15"

(20)

END DETOUR

M4-8A 24"X12"

(21)

LEGEND

- ← NORTHBOUND DETOUR
- SOUTHBOUND DETOUR
- ⊥ SIGN ASSEMBLY
- TYPE I BARRICADE OR DRUM
- ⊞ TYPE III BARRICADE

*** THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY. IT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

** COVER EXISTING DIRECTIONAL ROUTE SIGNS DURING DETOUR TIMES.

NOTE:
SEE SHEET 9 FOR PEDESTRIAN TRAFFIC CONTROL STAGING NOTES.

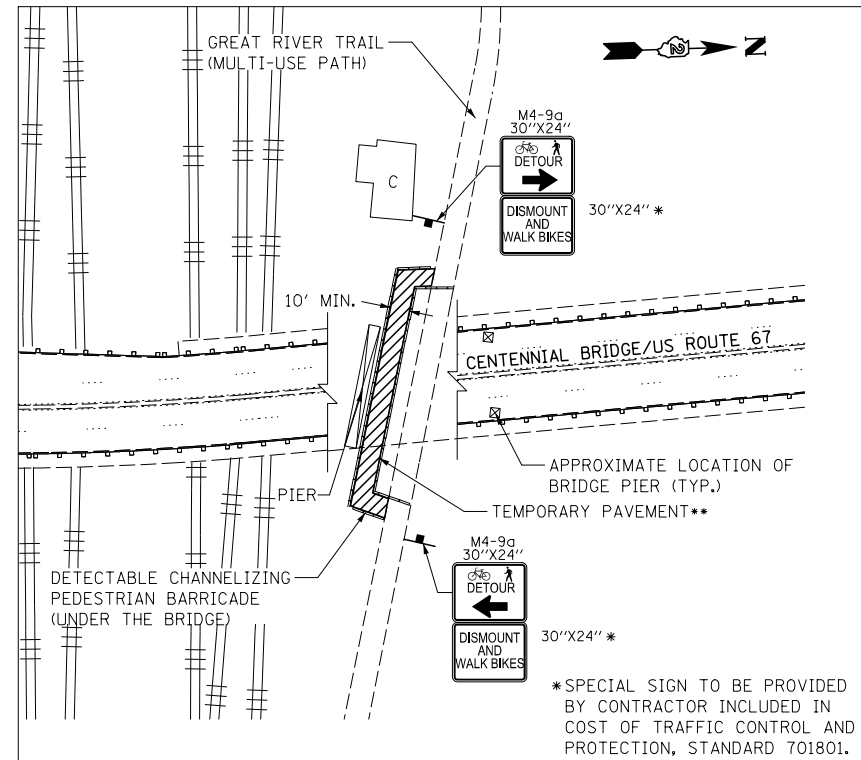
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PLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 67 OVER MISSISSPPI RIVER STRUCTURE NO. 081-9905
DETAIL FOR COMPLETE ROAD CLOSURE - IOWA SIDE**

SCALE: 1" = 100' SHEET NO. 7 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM	ROCK ISLAND	47	7
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				



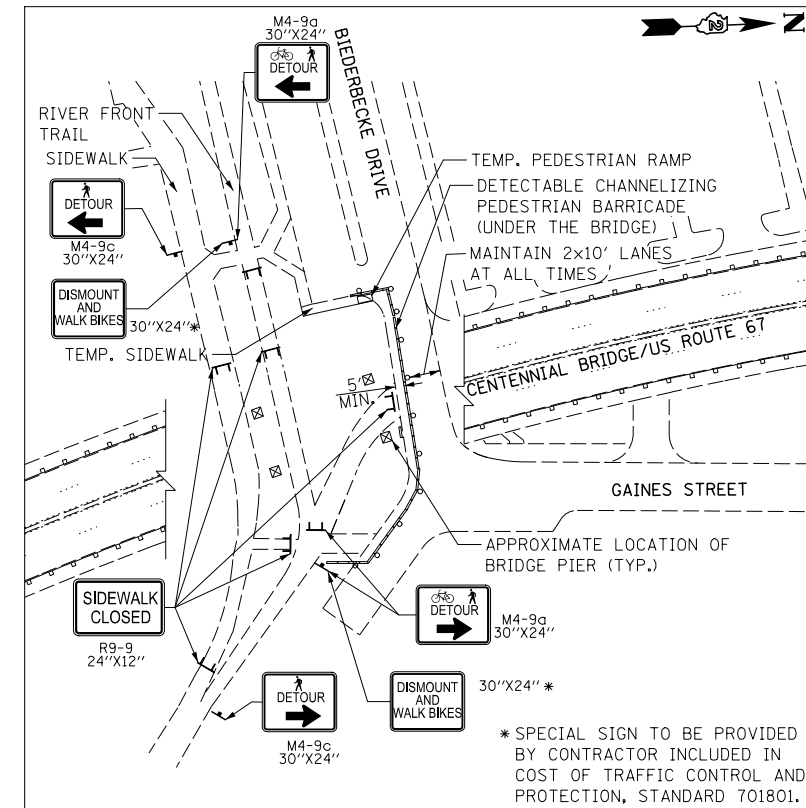
GREAT RIVER TRAIL DETOUR DETAIL

SCALE: 1" = 50'

** TEMPORARY PAVEMENT CONSISTS OF:

- 2" INCIDENTAL HOT-MIX ASPHALT SURFACING
- 6" AGGREGATE BASE COURSE, TYPE B

PRICE OF TEMPORARY PAVEMENT AND TEMPORARY PAVEMENT REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701801.



RIVER FRONT TRAIL AND SIDEWALK DETOUR DETAIL

SCALE: 1" = 50'

PRICE OF TEMPORARY SIDEWALK, TEMPORARY PEDESTRIAN RAMP, AND TEMPORARY SIDEWALK REMOVAL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701801.

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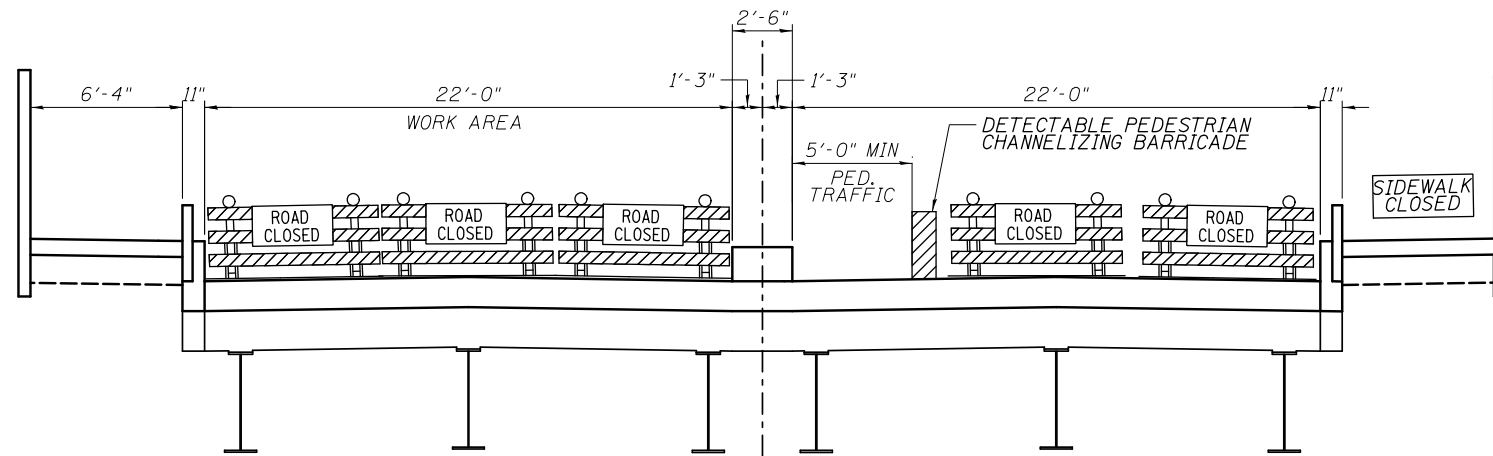
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 67 OVER MISSISSIPI RIVER STRUCTURE NO. 081-9905
GREAT RIVER TRAIL AND RIVER FRONT TRAIL DETOUR PLAN**

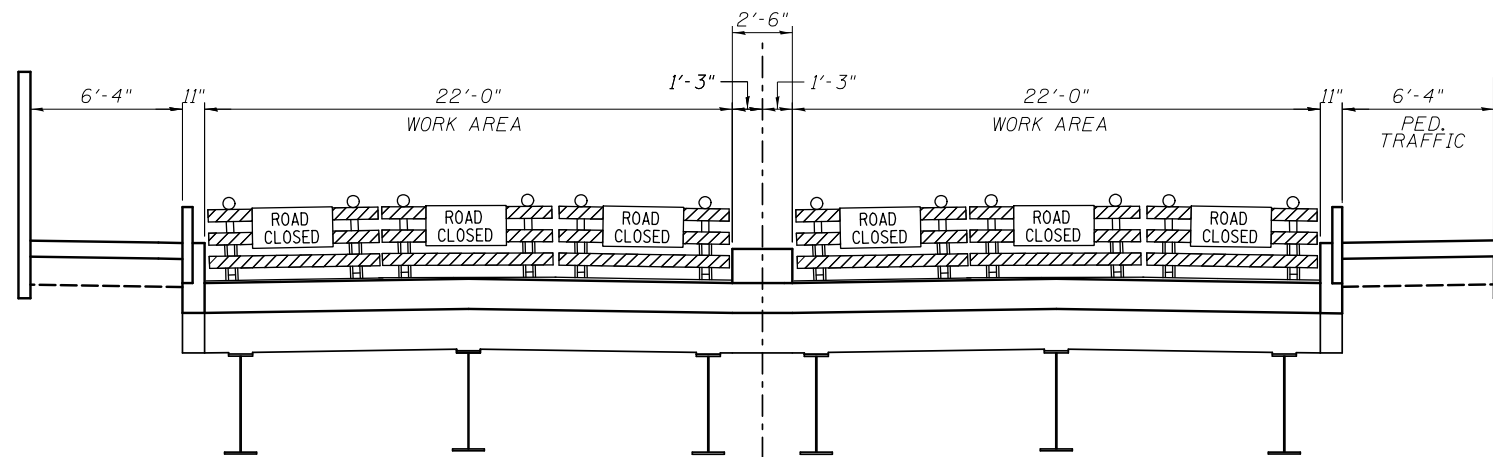
SCALE: AS SHOWN SHEET NO. 8 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	8
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

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TYPICAL SECTION BETWEEN FLOOR BEAMS - STAGE 1
(Looking North)



TYPICAL SECTION BETWEEN FLOOR BEAMS - STAGE 2
(Looking North)

GENERAL NOTES FOR TRAFFIC CONTROL:

- The Contractor shall not mount construction traffic control signs on existing signs or supports.

NARRATIVE FOR PEDESTRIAN TRAFFIC CONTROL STAGES:

Two weeks prior to construction, contractor shall place changeable message boards beyond the northern and southern limits of the project. Message displayed on message boards shall be approved by the Engineer.

Full Bridge Closure
35 calendar days of full bridge closure to replace transfer beam and columns at Piers 1 & 6, Expansion Joint removal and replacement, and structural steel repairs as shown on plans.

Stage 1 Pedestrian Traffic
The northbound on ramp from 1st Ave. shall be closed. See detour plan for details. Shift pedestrian traffic to the west side of northbound lanes next to the existing median.

Stage 2 Pedestrian Traffic
Maintain existing pedestrian traffic on US Route 67 bridge using existing east sidewalk. The southbound off ramp to 1st Ave. and southbound on ramp from Brown Street/2nd Ave. shall be closed.

NOTES:
Contractor shall provide signage and detectable pedestrian channelizing barricades to facilitate and protect pedestrians when bridge is closed to vehicular traffic.

Use Highway Standard 701601 for Lane Closures at WB IL 92/ 1st Avenue, Highway Standards 701601 and 701701 for Lane Closures at River Road/ US 61, Highway Standard 701421 for Lane Closure at EB IL 92/ 1st Avenue and Highway Standard 701501 for Lane Closures at Gaines Street/ Biederbecke Drive for bridge repairs work.

Single lane closures on US 67 are not allowed from 6 am to 9 am and 3 pm to 6 pm Monday through Friday for preparation work prior to the full bridge closure using Highway Standard 701601. The Contractor shall keep two lanes open on SB Gaines Street between 4th Street and 2nd Street at all times during this preparation work. When there is a SB lane closure on US 67, use Highway Standard 701606 for lane closures.

The Contractor shall protect pedestrians from hazards caused by construction activities at all times. This includes, but is not limited to, flying debris and falling objects from work above.

The Contractor shall move the detectable pedestrian channelizing barricades for access only. They shall be immediately restored to position shown on the standard after the vehicle has cleared the path and a pedestrian flagger shall be present at the opening for the entire time the detectable pedestrian channelizing barricades are out of place.

USER NAME = thompsrd	DESIGNED - RDT/GC	REVISED -
	DRAWN - RDT	REVISED -
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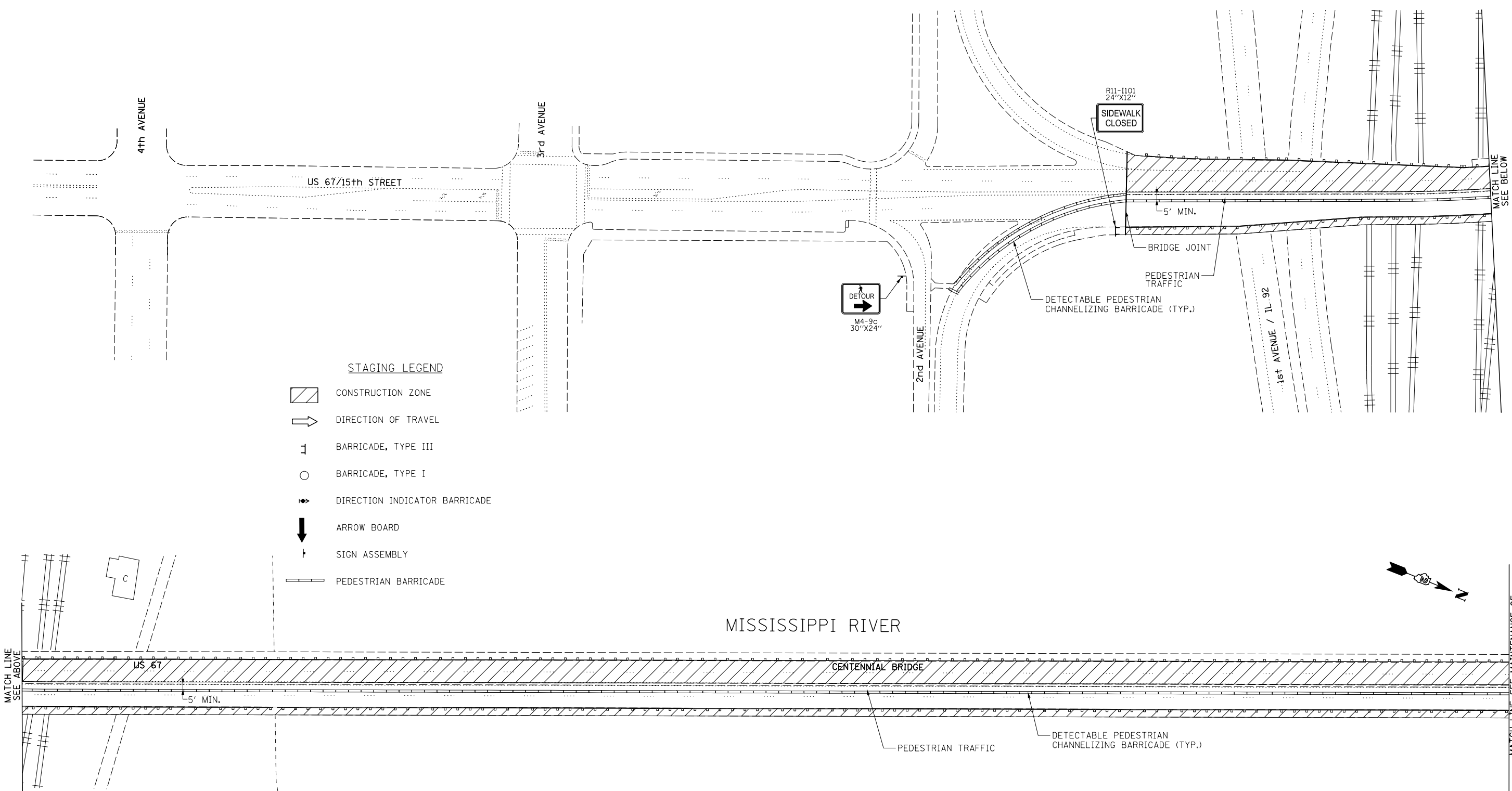
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 67 OVER MISSISSIPPI RIVER STRUCTURE NO. 081-9905
MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS

SCALE: NTS SHEET NO. 9 OF 47 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	9
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

NOTES:
 FOR STAGING NOTES SEE MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS SHEET 9.
 FOR ROAD CLOSURE AND DETOUR SIGNING SEE SHEET 5, 6, AND 7.



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PLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF PEDESTRIAN TRAFFIC STAGE 1 - 1

SCALE: 1" = 50' SHEET NO. 10 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	10
C-92-090-12			CONTRACT NO. 64H28	

ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)

NOTES:

FOR STAGING NOTES SEE MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS SHEET 9.









FOR ROAD CLOSURE AND DETOUR SIGNING SEE SHEET 5, 6, AND 7.

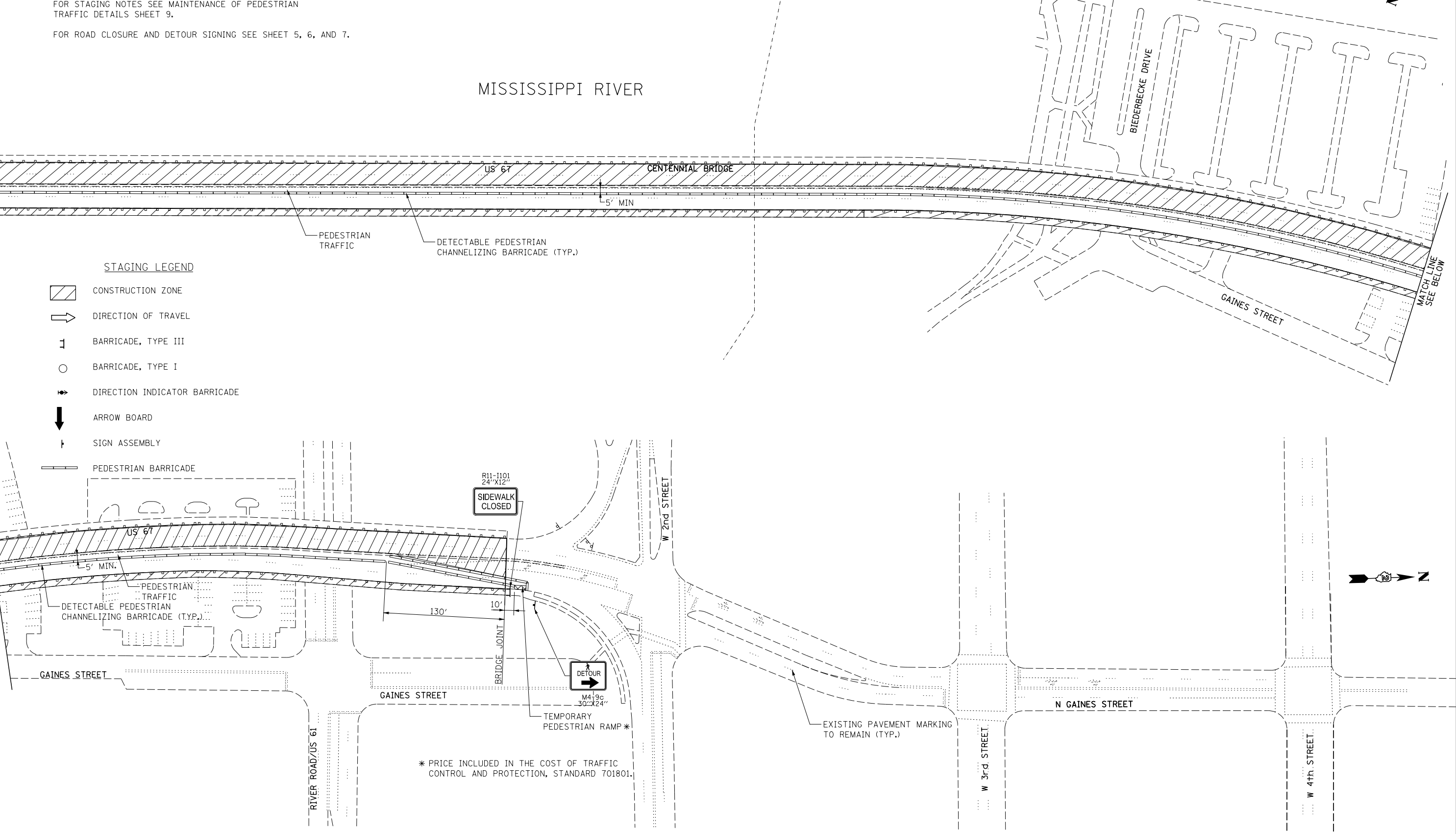
MISSISSIPPI RIVER

MATCH LINE SEE MAINTENANCE OF PEDESTRIAN TRAFFIC STAGE 1-1

MATCH LINE SEE ABOVE

STAGING LEGEND

-  CONSTRUCTION ZONE
-  DIRECTION OF TRAVEL
-  BARRICADE, TYPE III
-  BARRICADE, TYPE I
-  DIRECTION INDICATOR BARRICADE
-  ARROW BOARD
-  SIGN ASSEMBLY
-  PEDESTRIAN BARRICADE



* PRICE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701801.

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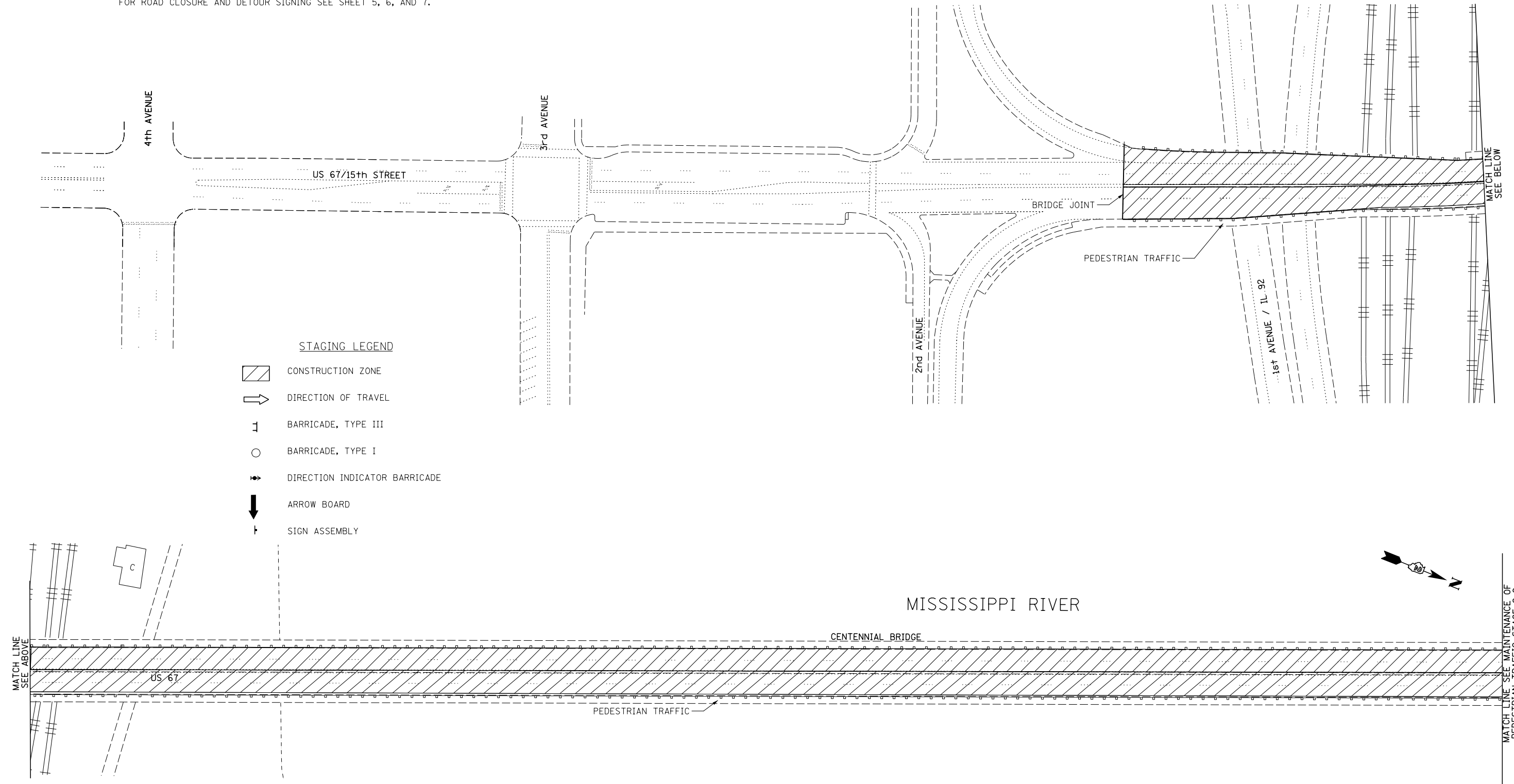
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF PEDESTRIAN TRAFFIC STAGE 1 - 2

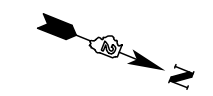
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	11
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

NOTES:
 FOR STAGING NOTES SEE MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS SHEET 9.
 FOR ROAD CLOSURE AND DETOUR SIGNING SEE SHEET 5, 6, AND 7.



- STAGING LEGEND
- CONSTRUCTION ZONE
 - DIRECTION OF TRAVEL
 - BARRICADE, TYPE III
 - BARRICADE, TYPE I
 - DIRECTION INDICATOR BARRICADE
 - ARROW BOARD
 - SIGN ASSEMBLY



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MATCH LINE
SEE ABOVE

MATCH LINE
SEE MAINTENANCE OF
PEDESTRIAN TRAFFIC STAGE 2-2

USER NAME = thompsrd	DESIGNED - RDT/GC	REVISED -
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PLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF PEDESTRIAN TRAFFIC STAGE 2 - 1

SCALE: 1" = 50' SHEET NO. 12 OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	12
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

NOTES:

FOR STAGING NOTES SEE MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS SHEET 9.








FOR ROAD CLOSURE AND DETOUR SIGNING SEE SHEET 5, 6, AND 7.

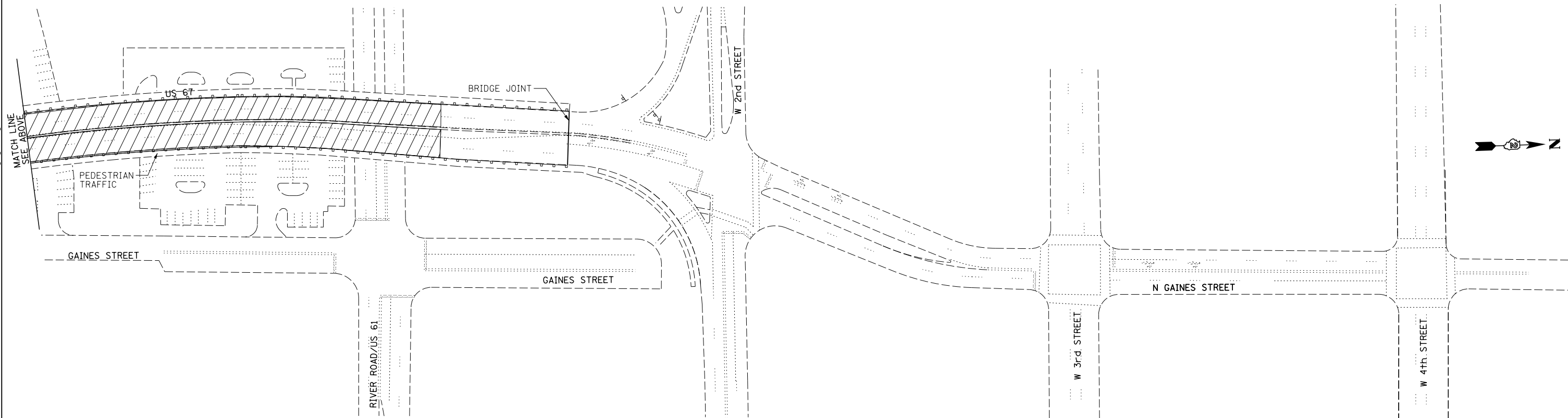
MISSISSIPPI RIVER

MATCH LINE
SEE STAGING 2-1

MATCH LINE
SEE BELOW

STAGING LEGEND

-  CONSTRUCTION ZONE
-  DIRECTION OF TRAVEL
-  BARRICADE, TYPE III
-  BARRICADE, TYPE I
-  DIRECTION INDICATOR BARRICADE
-  ARROW BOARD
-  SIGN ASSEMBLY



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PLLOT DATE = 1/21/2014	DATE - 11-08-2013	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF PEDESTRIAN TRAFFIC STAGE 2 - 2

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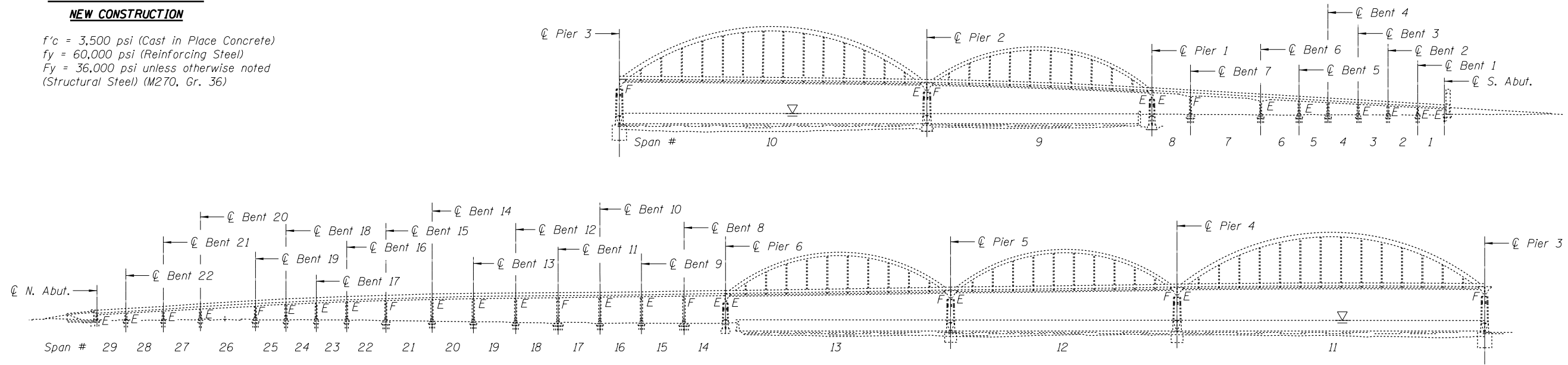
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	13
C-92-090-12			CONTRACT NO. 64H28	

ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)

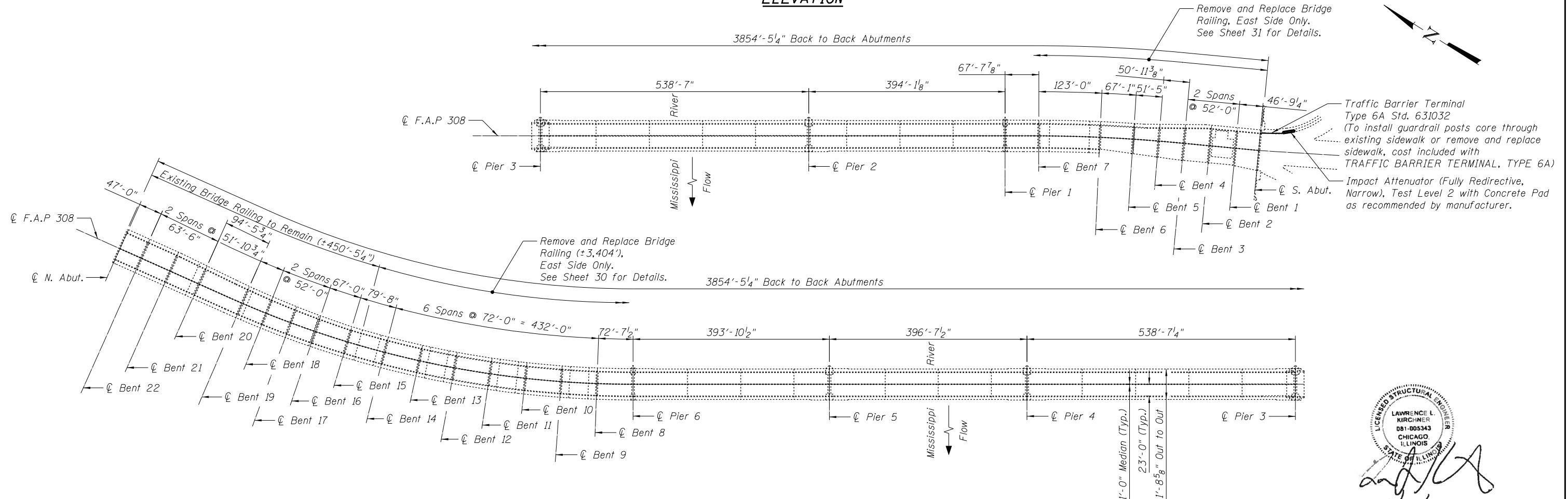
DESIGN STRESSES

NEW CONSTRUCTION

$f'_c = 3,500$ psi (Cast in Place Concrete)
 $f_y = 60,000$ psi (Reinforcing Steel)
 $F_y = 36,000$ psi unless otherwise noted
 (Structural Steel) (M270, Gr. 36)



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
 for Highway Bridges, 17th Edition

LICENSED STRUCTURAL ENGINEER
 LAWRENCE L. KIRCHNER
 081-005343
 CHICAGO, ILLINOIS
 STATE OF ILLINOIS
 11/24/2013
 EXPIRES 11/30/2014

FILE NAME = I:\Projects\4015550\4015550_0001\90_CAD_Models_and_Sheets\04_CJ_Bridge\0815905-64H28-001-DPE.dgn

	USER NAME = patrisjm	DESIGNED - MJK	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 081-9905	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 200:0.0000 ' / in.	DRAWN - MJK	REVISED			308	(3BRIM)	ROCK ISLAND	47	14
	PLOT DATE = 11/26/2013	CHECKED - JAN	REVISED			C-92-090-12		CONTRACT NO. 64H28		
						SHEET NO. 1 OF 33 SHEETS		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.
Bolts 7/8"φ, holes 15/16"φ, unless otherwise noted.

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

The Contractor shall field verify all proposed R dimensions and spacing of holes prior to ordering steel.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior and exterior steel surfaces shall be Gray, Munsell No. 5B 7/1.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel in contact with new structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All new structural steel shall conform to AASHTO Classification M-270 GR. 36 unless otherwise noted.

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

The Contractor shall remove and replace existing bolts and nuts in the bridge, bridge rail and bridge handrail satisfying the requirements for corroded or missing bolts and nuts as stated in the special provision BOLT REPLACEMENT. Contractor shall allow for 10 bolt replacements over and above those shown in the plans, the location of which shall be determined by the Contractor to conform with the special provision and/or as determined by the Engineer.

As directed by the Engineer, existing cracked tack welds to the arch ties shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welds, grinding and inspecting weld areas and grinding cracks will be paid for according to the special provision GRINDING AND REMOVAL OF TACK WELDS.

Use of barges on the Mississippi River or staging repairs from the river will not be allowed.

Reinforcement bars designated (E) shall be epoxy coated.

The Contractor shall not use cranes or any other equipment which would extend past the height of the bridge arch.

All bolts for structural steel repairs shall be included with the item Structural Steel Repair. Replacement of missing rivets with H.S. Bolts shall be included with Bolt Replacement item.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	10.0		10.0
Protective Shield	Sq. Yd.	357		357
Concrete Superstructure	Cu. Yd.	10.0		10.0
Furnishing and Erecting Structural Steel	Pound	29,322		29,322
Reinforcement Bars, Epoxy Coated	Pound	1,240		1,240
Fabric Reinforced Elastomeric Trough	Ft.	94		94
Anchor Bolts, 1 1/2"	Each	4		4
Traffic Barrier Terminal, Type 6A	Each			1
Impact Attenuators (Fully Directive, Narrow) , Test Level 2	Each			1
Concrete Pad	Sq. Yd.			11
Bolt Replacement	Each	165		165
Steel Bridge Rail Posts	Each	61		61
Remove and Reinstall Finger Plate Joint	Each	2		2
Furnish and Install Handrail	Ft.	3,404		3,404
Structural Steel Removal	Pound	28,769		28,769
Structural Steel Repair	Pound	49,140		49,140
Bridge Handrail Removal	Ft.	3,404		3,404
Cleaning Drainage System	L. Sum			1
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.		588	588
Drainage System	L. Sum	1		1
Silicone Joint Sealer	Ft.	14		14
Railroad Protective Liability Insurance	L. Sum			1
Temporary Support System	Each	2		2
Temporary Shoring and Cribbing	Each	22		22
Canopy Repair	L. Sum	1		1
Grinding and Removal of Tack Welds	Each	3		3

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes, Bill of Material & Index of Sheets
3. 2012 Inspection Information Tables
- 3A. 2012/2013 Inspection Information Tables
4. Framing Plan & Repair Locations Spans 29-24
5. Framing Plan & Repair Locations Spans 23-18
6. Framing Plan & Repair Locations Spans 17-14
7. Framing Plan & Repair Locations Spans 13 & 12
8. Framing Plan & Repair Locations Span 11
9. Framing Plan & Repair Locations Span 10
10. Framing Plan & Repair Locations Spans 9-6
11. Framing Plan & Repair Locations Spans 5-1
12. Structural Steel Repair Details, Sheet 1
13. Structural Steel Repair Details, Sheet 2
14. Structural Steel Repair Details, Sheet 3
15. Structural Steel Repair Details, Sheet 4
16. Structural Steel Repair Details, Sheet 5
17. Structural Steel Repair Details, Sheet 6
18. Structural Steel Repair Details, Sheet 7
19. Structural Steel Repair Details, Sheet 8
20. Structural Steel Repair Details, Sheet 9
21. Structural Steel Repair Details, Sheet 10
22. Finger Joint Retrofit Details
23. Drainage System Details
24. Miscellaneous Repair Details
25. Canopy Repair Details
26. Bracket Repair
27. Bracket Repair
28. Floor Beam Bracket Repair
29. Post Replacements and Railing Repairs
30. Handrail Details
31. Stiffener Replacement Details
32. Stiffener Repair Locations
33. Transfer Beam Details

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	CHECKED - JAN	REVISED
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PLOT DATE = 1/24/2014	CHECKED - JAN	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIAL & INDEX OF SHEETS
STRUCTURE NO. 081-9905**

SHEET NO. 2 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	15
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

2012 INSPECTION INFORMATION

REPAIR DETAIL NUMBER	07/25/12 NBIS INSPECTION DEFICIENCY ITEM NUMBER	LOCATION
1	68	Span 9, Stringer A at Floorbeam 11, Panel 11
1	142	Span 11, Stringer F at Floorbeam 10, Panel 10
1	169	Span 11, Stringer F at Floorbeam 10, Panel 11
1	143	Span 11, Stringer F at Floorbeam 2, Panel 2
1	195/196	Span 13, Stringer F at Floorbeam 0, Panel 1
2	121	Span 2, Beam D, 15'-8 ³ / ₄ " from Bearing at Bent 2
2	86	Span 11, Beam E, 480'-4 ¹ / ₂ " from Bearing at Pier 4
2	145	Span 16, Beam C, 36'-5" from Bearing at Bent 10
2	-	Span 16, Beam C, 2nd Diaphragm from Bent 10
2	-	Span 16, Beam C, 4th Diaphragm from Bent 10
2	147	Span 17, Beam A, 36'-0" from Bearing at Bent 11
2	148	Span 17, Beam C, 36'-7" from Bearing at Bent 11
2	210	Span 17, Beam D, 4th Diaphragm from Bent 11
2	212	Span 18, Beam C, 4th Diaphragm from Bent 12
2	-	Span 18, Beam D, 4th Diaphragm from Bent 12
2	219	Span 19, Beam A, 4th Diaphragm from Bent 13
2	151	Span 20, Beam C, 3rd Diaphragm from Bent 14
2	230	Span 20, Beam D, 3rd Diaphragm from Bent 14
2	235	Span 21, Beam C, 4th Diaphragm from Bent 15
2	-	Span 21, Beam C, 5th Diaphragm from Bent 15
2	236	Span 21, Beam D, 5th Diaphragm from Bent 15
2	117	Span 23, Beam D, 3rd Diaphragm from Bent 17
2	243	Span 24, Beam C, 2nd Diaphragm from Bent 18
2	-	Span 24, Beam C, 3rd Diaphragm from Bent 18
2	244	Span 24, Beam D, 3rd Diaphragm from Bent 18
2	159	Span 27, Beam A, 2nd Diaphragm from Bent 21
3	72	Span 9, Hanger 7E
3	74	Span 9, Hanger 5E
3	76	Span 9, Hanger 2W
3	78	Span 9, Hanger 2E
4	32	Span 12, Floorbeam 11 at East Tie
5	49	Span 21, Beam F, North Pin
6	152	Span 21, East Sidewalk at 2nd Bracket North of Bent 14
7	118	Span 25, West Sidewalk, 6' North of Bent 18
8	126	Span 5, Beam A, Pin near Bent 5
8	127	Span 5, Beam B, Pin near Bent 5
8	128	Span 5, Beam E, Pin near Bent 5
8	161	Span 5, Beam F, Pin near Bent 5
9	107	Span 18, Beam D at Midspan
10	64	Span 7, Beam C, 24' North of Bent 6
10	-	Span 17, Beam B, 16'-10 ¹ / ₂ " North of Bent 10
10	207	Span 17, Beam C, 16'-11 ¹ / ₂ " North of Bent 10
10	208	Span 17, Beam E, 17'-1" North of Bent 10
10	209	Span 17, Beam F, 17'-2" North of Bent 10
10	223	Span 19, Beam B, 16'-10 ¹ / ₂ " South of Bent 13
10	-	Span 23, Beam A, North Side of Bent 16
10	115	Span 23, Beam B, North Side of Bent 16
10	52	Span 23, Beam C, North Side of Bent 16
10	154	Span 23, Beam D, North Side of Bent 16
10	155	Span 23, Beam E, North Side of Bent 16
10	156	Span 23, Beam F, North Side of Bent 16
11	122	Span 3, Beam D at Bent 2
11	160	Span 27, Beam D at Bent 21
12	137	Span 10, Stringer B, 22'-11 ¹ / ₄ " South of Floorbeam 2
12	138	Span 10, Stringer C, 8'-10 ³ / ₄ " South of Floorbeam 0
13	129	Span 6, Beam C, 15' from Bent 5
13	9	Span 6, Beam D, 6' from Bent 5
14	70	Span 9, Floorbeam 8 at Stringer E
15	135	Span 10, West Bearing at Pier 2
16	41	Span 13, Sidewalk Support Channel West Side at Pier 6
17	134	Span 9, 3rd Purlin South of Floorbeam 3
18	114	Span 23, Diaphragm between Stringers B and C at Bent 16
19	132	Span 9, Floorbeam 11 at Stringer F
20	16	Span 7, Sign Support Channel, E. Side, 6th Bracket from Bent 6
21	75	Span 9, Floorbeam 5 between Stringers D and E
22	144	Span 13, Stringer E at Floorbeam 0
23	165	Span 10, West Tie at West End of Floorbeam 10
23	170	Span 11, West Tie at West End of Floorbeam 9
23	88	Span 11, West Tie at West End of Floorbeam 4
24	113	Span 22, Diaphragm between Stringers C and D over Bent 16
25	77	Span 9, Floorbeam 2 at Stringer D
26	7	Span 4 & 5, Bent 4 at Beam D
27	168	Span 10, Lateral Bracing Hanger at Midspan of Panel 4
28	181	Span 12, Floorbeam 0 at Stringer F

2012 INSPECTION INFORMATION

REPAIR DETAIL NUMBER	07/25/12 NBIS INSPECTION DEFICIENCY ITEM NUMBER	LOCATION
29	163	Span 9, Floorbeam 11 at East End
30	221	Span 19, Beam C, 4th Diaphragm from Bent 13
30	220	Span 19, Beam D, 4th Diaphragm from Bent 13
31	204	Span 16, Beam A, at Midspan
31	146	Span 16, Beam D, at Midspan and ¹ / ₄ Point
31	213	Span 18, Beam A, at Midspan
31	116/157	Span 23, Beam C, 26'-6" from Bearing at Bent 17
32	12	Span 7, Beam D, 2'-0" North of Pin and Link
33	211	Span 17, Outer Sidewalk Channel, West Side
33	214	Span 18, Outer Sidewalk Channel, West Side
33	218	Span 19, Outer Sidewalk Channel, West Side
33	228	Span 20, Outer Sidewalk Channel, West Side
33	234	Span 21, Outer Sidewalk Channel, West Side
34	229	Span 20, Beam A, 8'-0" from Bearing at Bent 13
35	184	Span 13, Inner Sidewalk Channel, West Side btwn FB 10 & FB 11
36	197	Transfer Beam and Columns at Pier 1
36	198	Transfer Beam and Columns at Pier 6
100	5	Span 1, East Side, 3rd Bracket from South Abutment
100	17	Span 8, East Side, 2nd Bracket from Bent 7
101	123	Span 4, East Side, 1st Bracket from North of Bent 3
102	125	Span 4, 5 at East Bracket at Bent 4
103	130	Span 7, East Side, 6th Bracket from Bent 6
104	11	Span 7, East Side, 4th Bracket from Bent 6
105	42	Span 14, East Side, at Panel 6, 1st Bracket at Pier 6
105	63	Span 6, 7 at Bent 6
106	44	Span 17, West Side, 4th Bracket from Bent 10 at Pin and Link
106	205	Span 17, West Side, 3rd Bracket from Bent 10
107	150	Span 19, West Side, 1st Bracket from South of Bent 13
108	149	Span 19, West Side, 2nd Bracket from South of Bent 13
109	153	Span 23, West Side at Bent 16
110	164	Span 9, Floorbeam 3 at West Cantilevered Bracket
110	166	Span 10, Floorbeam 11 at East Cantilevered Bracket
110	80	Span 10, Floorbeam 10 at East Cantilevered Bracket
110	81	Span 10, Floorbeam 8 at East Cantilevered Bracket
110	82	Span 10, Floorbeam 5 at East Cantilevered Bracket
110	167	Span 10, Floorbeam 4 at East Cantilevered Bracket
110	83	Span 10, Floorbeam 1 at East Cantilevered Bracket
110	172	Span 11, Floorbeam 8 at East Cantilevered Bracket
110	173	Span 11, Floorbeam 6 at East Cantilevered Bracket
110	89	Span 12, Floorbeam 10 at East Cantilevered Bracket
110	91	Span 12, Floorbeam 9 at East Cantilevered Bracket
110	92	Span 12, Floorbeam 8 at East Cantilevered Bracket
110	93	Span 12, Floorbeam 7 at East Cantilevered Bracket
110	95	Span 12, Floorbeam 6 at East Cantilevered Bracket
110	96	Span 12, Floorbeam 5 at East Cantilevered Bracket
110	97	Span 12, Floorbeam 4 at East Cantilevered Bracket
110	98	Span 12, Floorbeam 2 at East and West Cantilevered Bracket
110	177	Span 12, Floorbeam 1 at East Cantilevered Bracket
110	178	Span 12, Floorbeam 1 at West Cantilevered Bracket
110	185	Span 13, Floorbeam 10 at East Cantilevered Bracket
110	188	Span 13, Floorbeam 7 at East Cantilevered Bracket
110	190	Span 13, Floorbeam 5 at East Cantilevered Bracket
110	191	Span 13, Floorbeam 4 at East Cantilevered Bracket
111-114	62	All spans throughout
115	61	West Sidewalk at Post location 429 and 467
115	187	Span 13 between Floorbeam 7 and 8
120	18	Span 8, Beam D, 6th Stiffener from Bent 7, East Side
121	65	Span 7, Beam D, 15th and 16th Stiffener from Bent 6, E. Side
121	57	Span 26, Beam A, 4th Stiffener South of Bent 20, East Side
122	67	Span 8, Beam F, 2nd and 3rd Stiffener from Bent 7, W. Side
123	66	Span 7, Beam F, 3rd Stiffener from Bent 7, West Side
124	15	Span 7, Beam F, 19th Stiffener from Bent 6, West Side
125	28	Span 11, Floorbeam 13 between Stringer E and F, Panel 13
125	34	Span 12, Floorbeam 9 between Stringer A and B, Panel 9
125	94	Span 12, Floorbeam 6 between Stringer E and F, Panel 7
125	101	Span 13, Floorbeam 0, 3rd and 4th Stiffener from West Side
126	71	Span 9, Floorbeam 8, Stiffener at Stringer A, North Face
126	133	Span 9, Floorbeam 5, Stiffener at Stringer F, North Face
126	87	Span 11, FB 8, Stiffener at Stringer A, Panel 8, N. Face
126	35	Span 12, FB 7, Stiffener below Stringer F, Panel 7, N. Face
126	71	Span 9, Floorbeam 8, Stiffener at Stringer C, Panel 8, N. Face
127	39	Span 13, FB 10, Stiffener below Stringer F, Panel 10, N. Face
128	33	Span 12, FB 9, Stiffener below Stringer A, Panel 9, N. Face
128	186	Span 13, Floorbeam 9, Stiffener at Stringer F

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**2012 INSPECTION INFORMATION TABLES
STRUCTURE NO. 081-9005**

SHEET NO. 3 OF 33 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	16
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

2012 INSPECTION INFORMATION (continued)

REPAIR DETAIL NUMBER	07/25/12 NBIS INSPECTION DEFICIENCY ITEM NUMBER	LOCATION
129	180	Span 12, Floorbeam 0, Stiffener at Stringer C
129	175	Span 12, Floorbeam 11, Stiffener at Stringer B, C and D
129	183	Span 13, Floorbeam 11, Stiffeners at Stringer B, C and E
130	162	Span 7, Beam A, 3rd and 5th Stiffener from Bent 7, E. Side
131	174	Span 11, Floorbeam 0, West Cantilevered Bracket
140	199	Span 14, West Side, 2nd Bracket from Pier 6
Guardrail Bolt Replacement	73	Guardrail throughout (See Table on Sheet 19 for locations)
Bolt Replacement	4	Span 1, Beam C at Midspan
Bolt Replacement	120	Span 1, 2 at Diaphragm between Beam E and D at Bent 1
Bolt Replacement	23	Span 10, Lat. Brac. Hangers, Throughout Sp. 10 btwn. Strs. C and D
Bolt Replacement	136	Span 10, 1st Purlin South of Floorbeam 9 at Stringer B
Bolt Replacement	140	Span 11, Floorbeam 14 between Stringers D & E
Bolt Replacement	85	Span 11, Sidewalk Rail, West Side Post #268
Bolt Replacement	90	Span 12, East Arch between U9 and U10
Bolt Replacement	99	Span 12, Elect. Box E, Side 2' Above Deck at P.P. 1
Bolt Replacement	100	Span 12, West Arch, top of arch, 5' North of U2
Bolt Replacement	36	Span 12, West Arch at U2W
Bolt Replacement	40	Span 13 on L5W-U5W
Bolt Replacement	46	Span 17, Beam F, West Side, 7' from Bent 11, Bottom Flange
Bolt Replacement	45	Span 17, Beam A, East Face, 5' from Bent 11
Bolt Replacement	224	Span 19, Beam A, 6' and 12' from Bent 13
Bolt Replacement	109	Span 19, Railpost #396 from South End of bridge, East Side
Bolt Replacement	240	Span 22, Beam A, 4' from Bent 16
Bolt Replacement	54	Span 24, Beam A, 3' from Bent 17
Bolt Replacement	158	Span 27, 2nd Diaphragm North of Bent 20 btwn Beams C & D
Structural Conc. Repair	79	Span 9, 10, Pier 2, Wall and Column
Structural Conc. Repair	84	Span 10, 11, Pier 3, Spandrel and Columns
Structural Conc. Repair	37	Span 12, 13, Pier 5, Cap, Wall and Columns
Structural Conc. Repair	102	Span 13, 14, Pier 6, South & North Face of Wall & Columns
Structural Conc. Repair	225	Span 19, 20, Bent 13, Cap
Structural Conc. Repair	237	Span 21, 22, Bent 15, Cap
Structural Conc. Repair	51	Span 22, 23, Bent 16, South Side of Crash Wall, North Face of Cap
Canopy Repair	139	Span 10, South End of Old Toll Booth Roof over Roadway Centerline
Sidewalk Panel Joint Repair	27	Span 10, 11 Joint, West Sidewalk at Pier 3
Finger Joint Repair	-	Pier 1
Finger Joint Repair	-	Pier 6
Clean Drainage System	194	Span 13, Pier 6

2013 INSPECTION INFORMATION

REPAIR DETAIL NUMBER	2013 NBIS INSPECTION DEFICIENCY ITEM NUMBER	LOCATION
1	272	Span 10, Stringer F at Floorbeam 11, Panel 12
1	274	Span 10, Stringer F at Floorbeam 9, Panel 9
1	281	Span 11, Stringer F at Floorbeam 13, Panel 14
1	282	Span 11, Stringer F at Floorbeam 13, Panel 13
3	263	Span 9, Hanger 6E at Bottom of Deck
3	264	Span 9, Hanger 4E at Bottom of Deck
3	266	Span 9, Hanger 1E at Bottom of Deck
3	273	Span 10, Hanger 11W at Bottom of Deck
3	283	Span 11, Hanger 10E at Bottom of Deck
3	289	Span 12, Hanger 8E at Bottom of Deck
10	255	Span 7, Beam A at South Pin & Link, East Side
15	260	Span 9, East Bearing at Pier 1
20	256	Span 7, Sign Support Channel, W. Side, 4th Bracket from Bent 7
27B	262	Span 9, Lat. Br. Hanger btwn Stringers C & D in Panel 11
29	286	Span 12, Floorbeam 11 at Lower Panel Point 11, East End
29B	278	Span 10, Floorbeam 1 at East End
29B	288	Span 12, Floorbeam 10 at West End
29B	294	Span 13, Floorbeam 8 at West End
35	287	Span 12, Inner Sidewalk Channel, W. Side btwn Floorbeams 10 & 11
35	293	Span 13, Inner Sidewalk Channel, E. Side btwn Floorbeams 10 & 11
35	296	Span 13, Inner Sidewalk Channel, E. Side at Pier 6
123	253	Span 6, Beam A, 3rd Stiffener South of Bent 6
126	261	Span 9, Floorbeam 11, Stiffener at Stringer A, N. Face
129	267	Span 9, Floorbeam 0, Stiffener at Stringer B, C, D & E, N. Face
Joint Repair	249	Span 1, Joint Repair at South Abutment, E. Side
Drainage Repair	284	Span 11, 2nd Drain South of Floorbeam 6, E. Side
Drainage Repair	291	Span 12, 5'-0" North of Floorbeam 4 btwn Stringers C & D
Bolt Replacement	250	Span 5, Beam F, 1'-0" and 6'-0" from Bent 5
Bolt Replacement	268	Span 9/10, Joint Trough at Panel 2, btwn Stringers B & C
Bolt Replacement	279	Span 10, Stringer F, 15'-0" from Floorbeam 0
Bolt Replacement	280	Span 10, East Arch, 1'-0" Above Deck, East Face
Bolt Replacement	290	Span 12, East Arch at Upper Panel Point 5, East Side
Bolt Replacement	295	Span 13, West Arch at Upper Panel Point 7
Bolt Replacement	299	Span 21, Beam D at 2nd Diaphragm from Bent 14

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

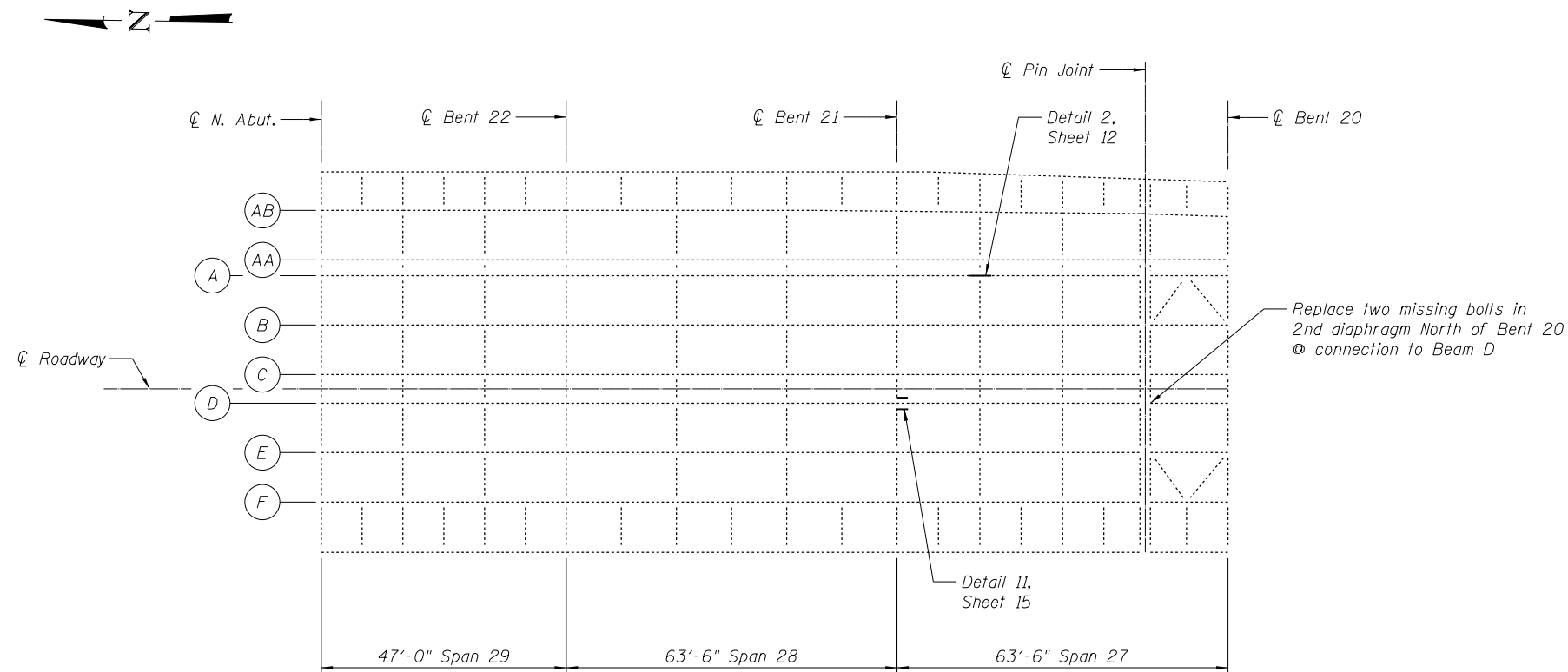
**2012 /2013 INSPECTION INFORMATION TABLES
STRUCTURE NO. 081-9905**

SHEET NO. 3A OF 33 SHEETS

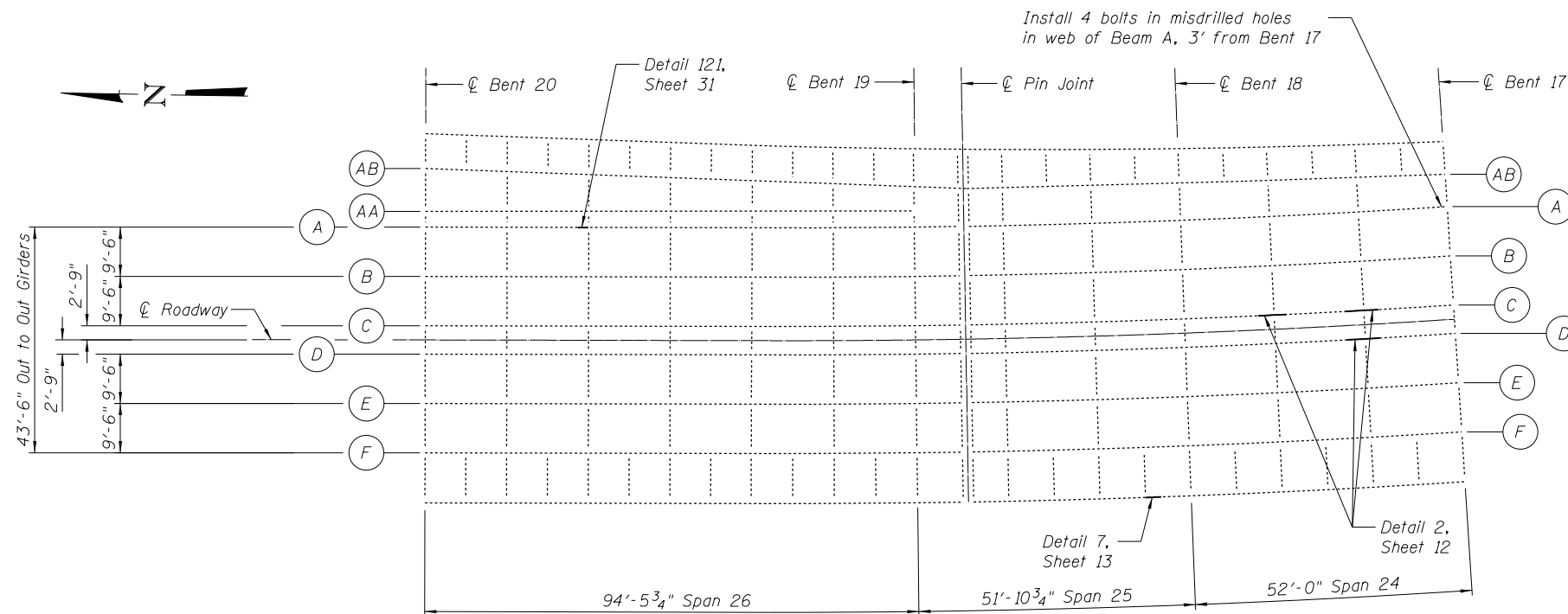
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308	(3BRIM)	ROCK ISLAND	47	16A
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	1,637
Bolt Replacement	Each	7
Steel Bridge Rail Posts	Each	3



FRAMING PLAN SPANS 29, 28 AND 27



FRAMING PLAN SPANS 26, 25 AND 24

Note:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30.

Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

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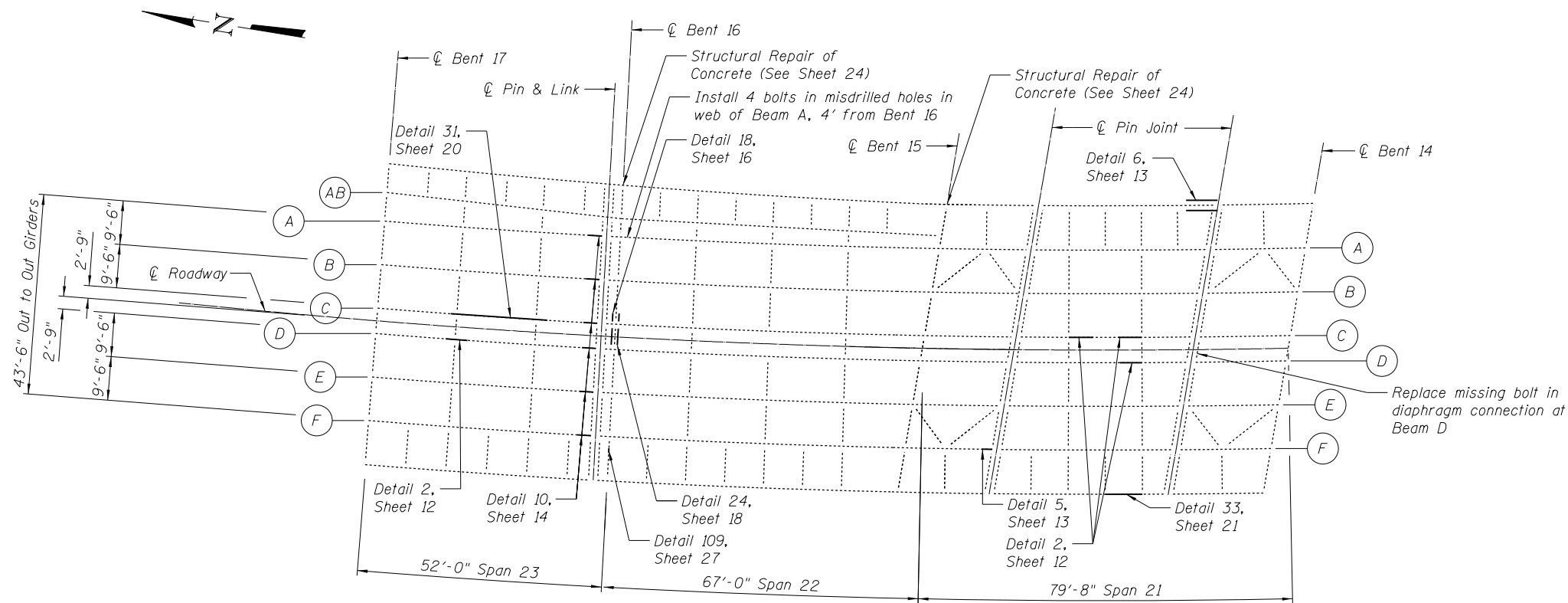
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**FRAMING PLAN & REPAIR LOCATIONS SPANS 29-24
STRUCTURE NO. 081-9905**

SHEET NO. 4 OF 33 SHEETS

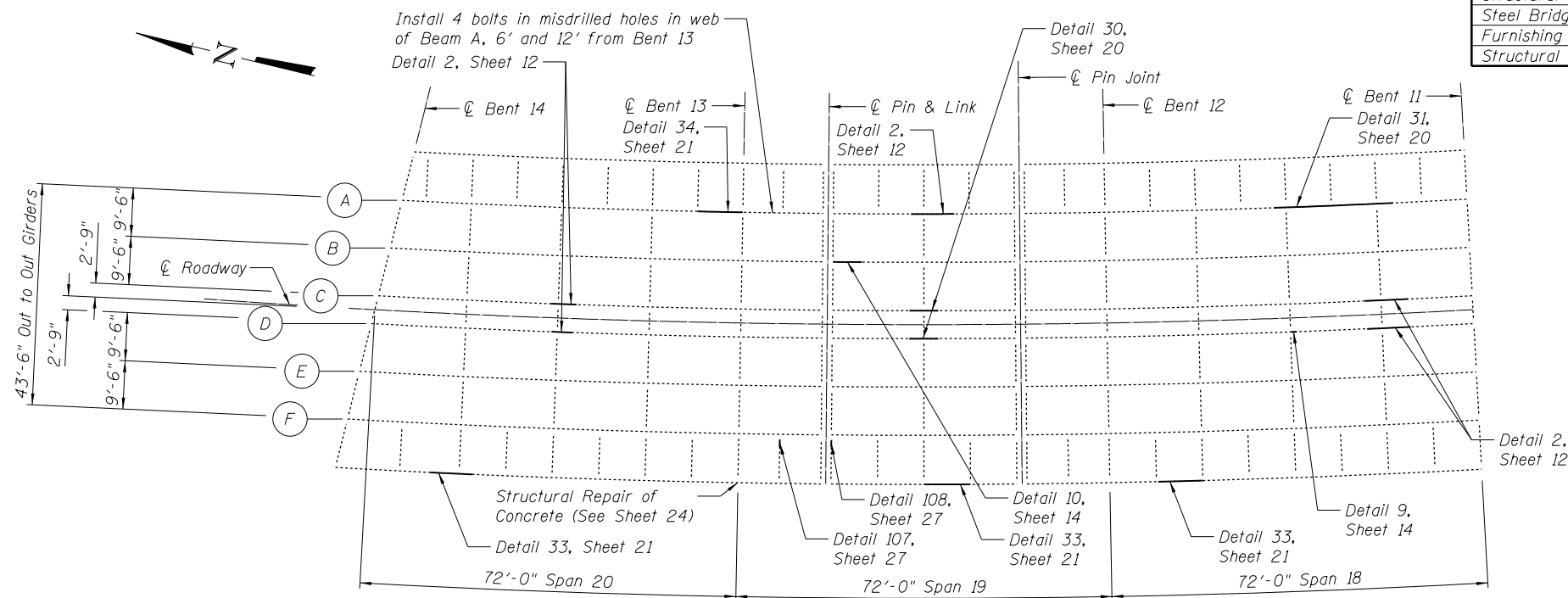
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	17
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



FRAMING PLAN SPANS 23, 22 AND 21

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	15,502
Bolt Replacement	Each	21
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	115
Steel Bridge Rail Posts	Each	8
Furnishing and Erecting Structural Steel	Pound	2,260
Structural Steel Removal	Pound	2,260



FRAMING PLAN SPANS 20, 19 AND 18

Notes:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30.

Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

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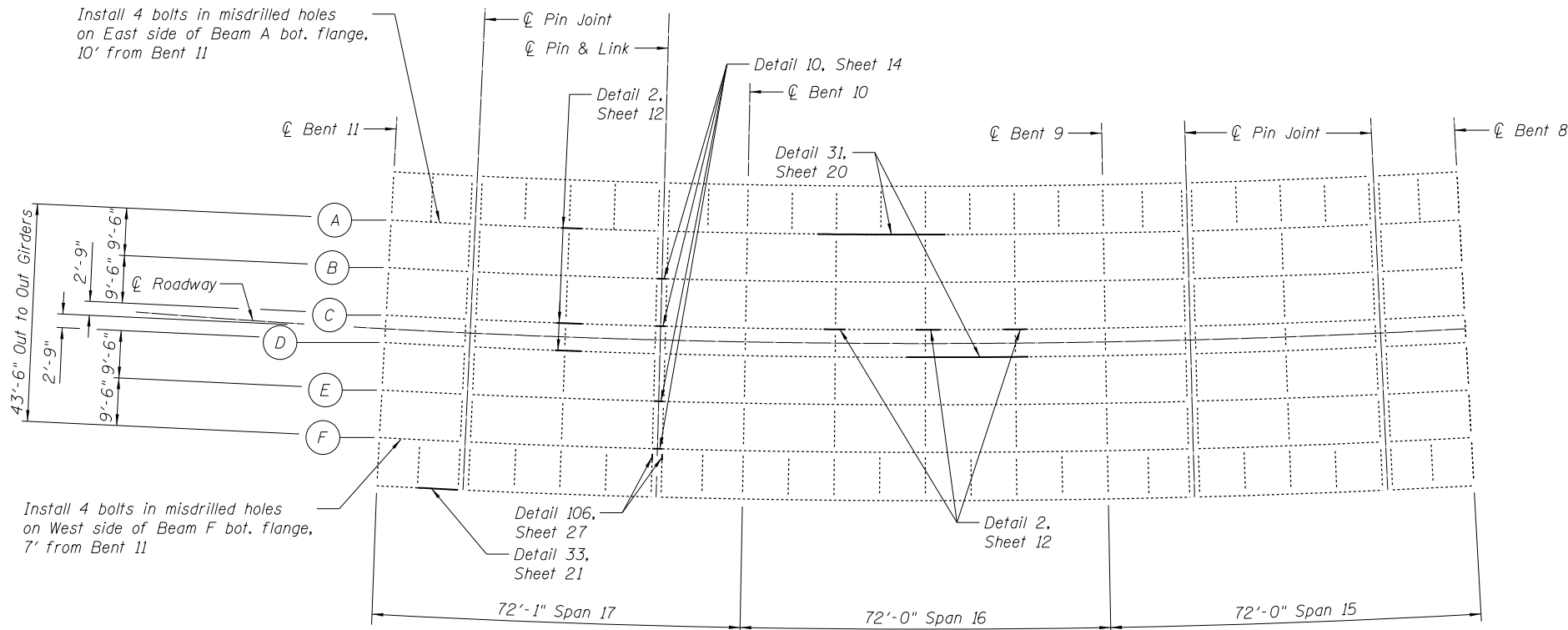
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN & REPAIR LOCATIONS SPANS 23-18
STRUCTURE NO. 081-9905**

SHEET NO. 5 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	18
C-92-090-12		CONTRACT NO. 64H28		

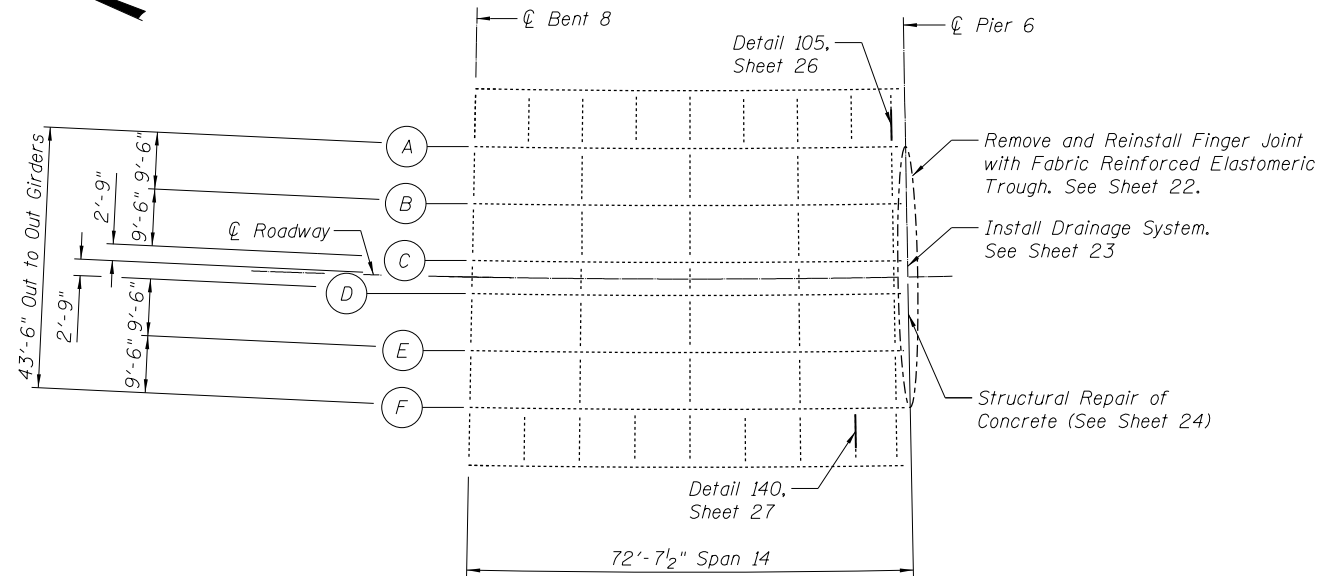
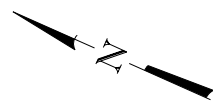
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FRAMING PLAN SPANS 17, 16 AND 15

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	9,021
Bolt Replacement	Each	12
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	342
Steel Bridge Rail Posts	Each	5
Remove and Reinstall Finger Joint	Each	1
Concrete Removal	Cu. Yd.	5
Concrete Superstructure	Cu. Yd.	5
Fabric Reinforced Elastomeric Trough	Ft.	47
Furnishing and Erecting Structural Steel	Pound	445
Structural Steel Removal	Pound	445



FRAMING PLAN SPAN 14

Notes:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30.

Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

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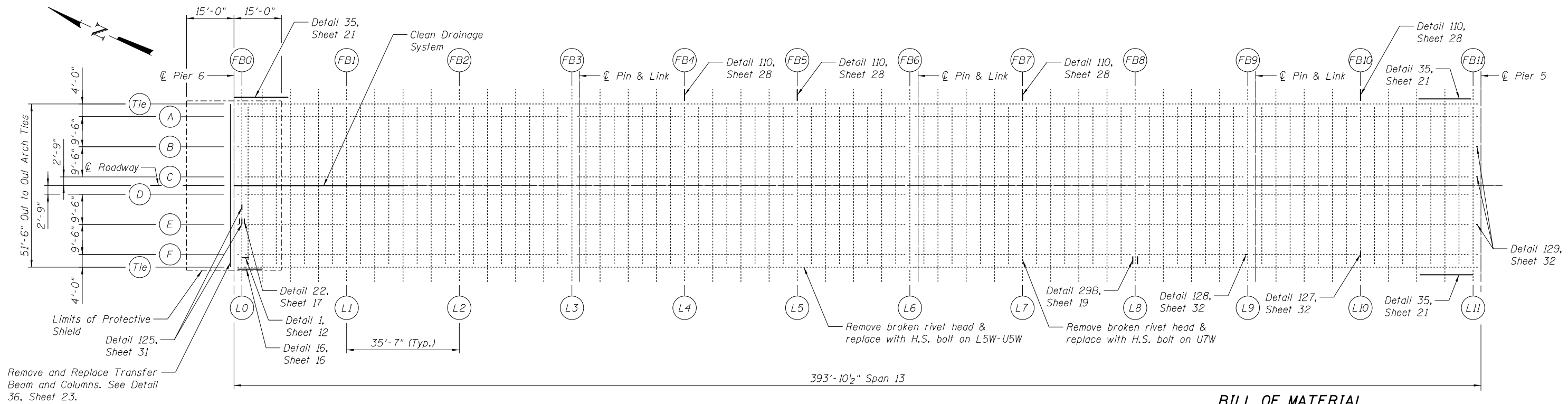
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**STATE OF ILLINOIS
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**FRAMING PLAN & REPAIR LOCATIONS SPANS 17-14
STRUCTURE NO. 081-9905**

SHEET NO. 6 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT				

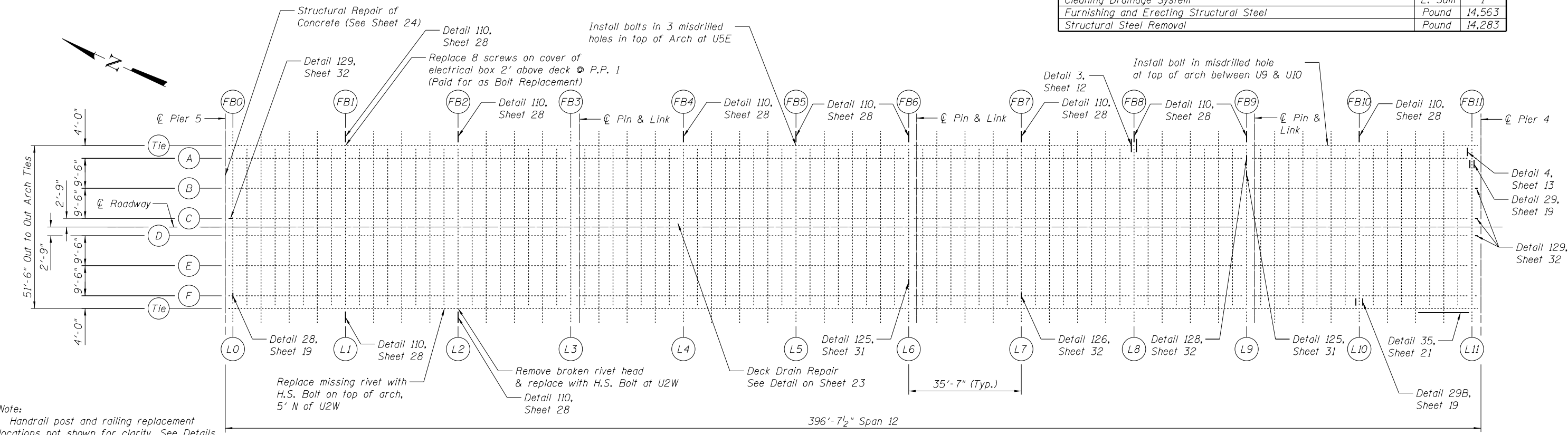


Remove and Replace Transfer Beam and Columns. See Detail 36, Sheet 23.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	5,037
Bolt Replacement	Each	26
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	46
Steel Bridge Rail Posts	Each	20
Protective Shielding	Sq. Yd.	178.5
Cleaning Drainage System	L. Sum	1
Furnishing and Erecting Structural Steel	Pound	14,563
Structural Steel Removal	Pound	14,283

FRAMING PLAN SPAN 13



Note:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30.

Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

FRAMING PLAN SPAN 12

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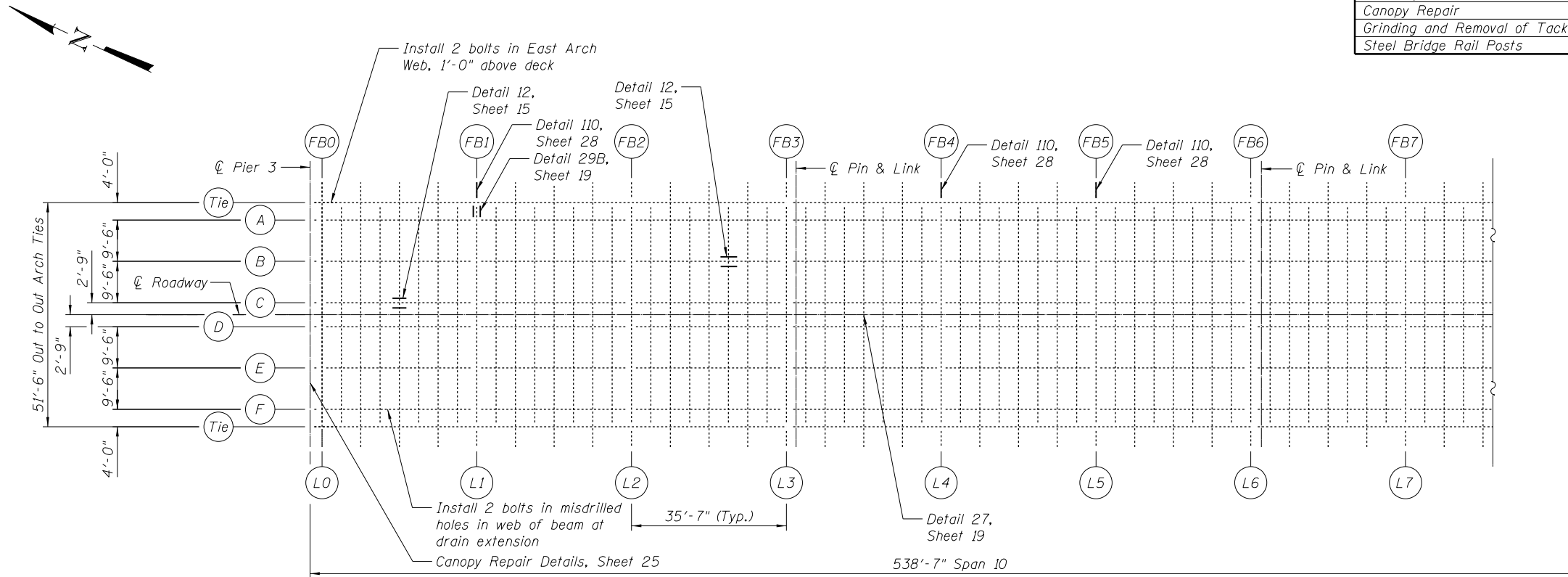
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STRUCTURE NO. 081-9905**

SHEET NO. 7 OF 33 SHEETS

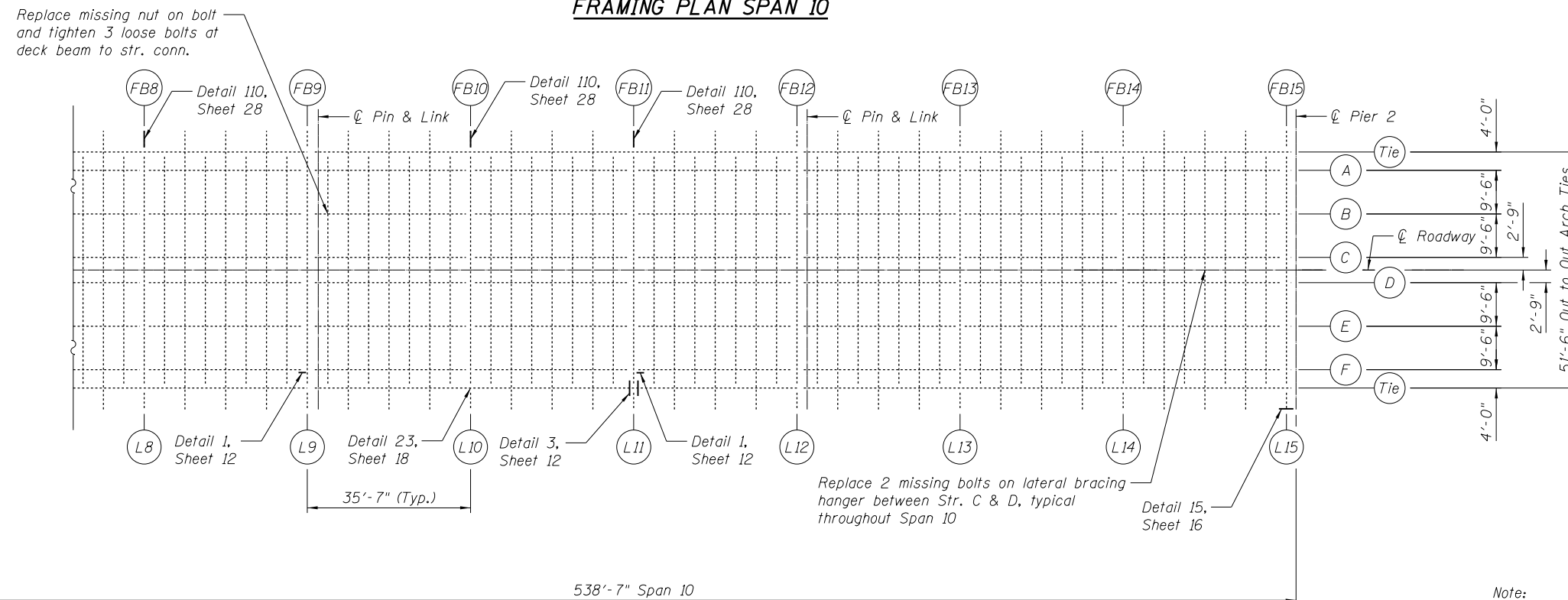
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C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	2,472
Bolt Replacement	Each	49
Canopy Repair	L. Sum	1
Grinding and Removal of Tack Welds	Each	1
Steel Bridge Rail Posts	Each	5



FRAMING PLAN SPAN 10



FRAMING PLAN SPAN 10

Note:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30

Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

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**FRAMING PLAN & REPAIR LOCATIONS SPAN 10
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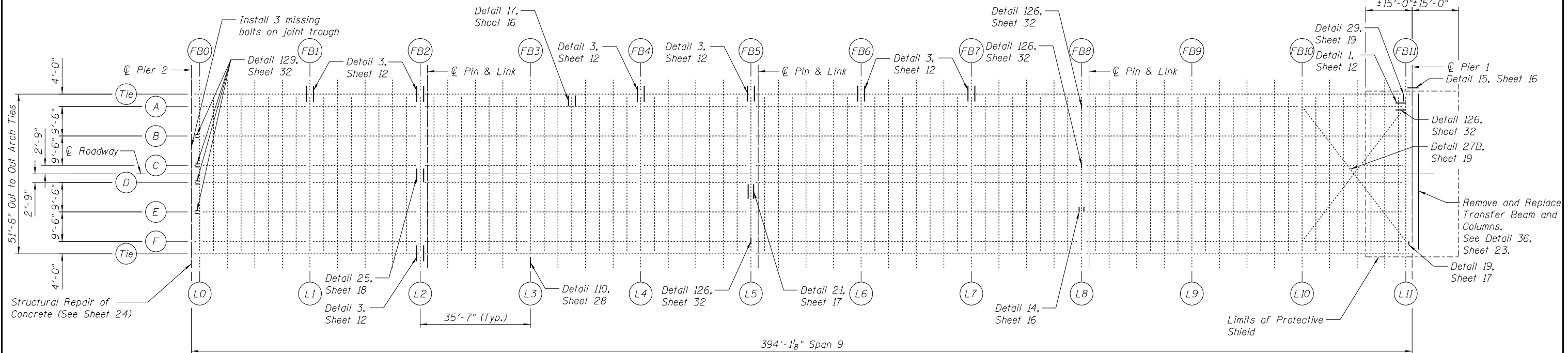
SHEET NO. 9 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	22
C-92-090-12		CONTRACT NO. 64H28		

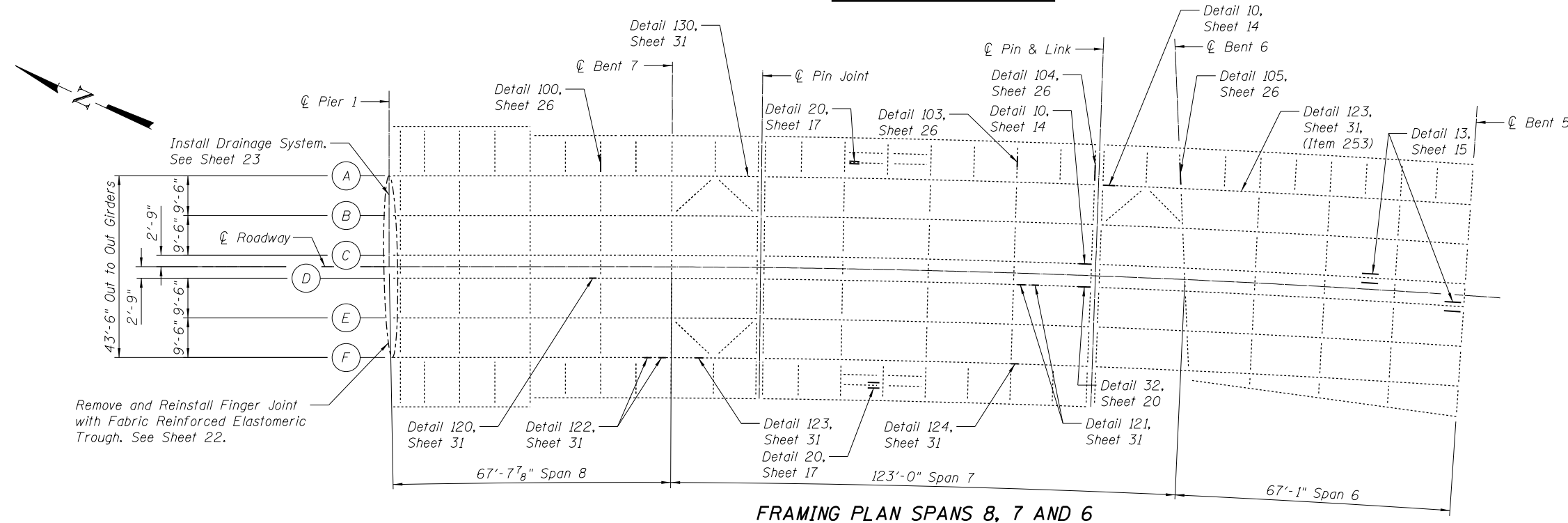
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	10,198
Bolt Replacement	Each	8
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	43
Steel Bridge Rail Posts	Each	20
Concrete Removal	Cu. Yd.	5
Concrete Superstructure	Cu. Yd.	5
Fabric Reinforced Elastomeric Trough	Ft.	47
Protective Shielding	Sq. Yd.	178.5
Furnishing and Erecting Structural Steel	Pound	12,053
Structural Steel Removal	Pound	11,781



FRAMING PLAN SPAN 9



FRAMING PLAN SPANS 8, 7 AND 6

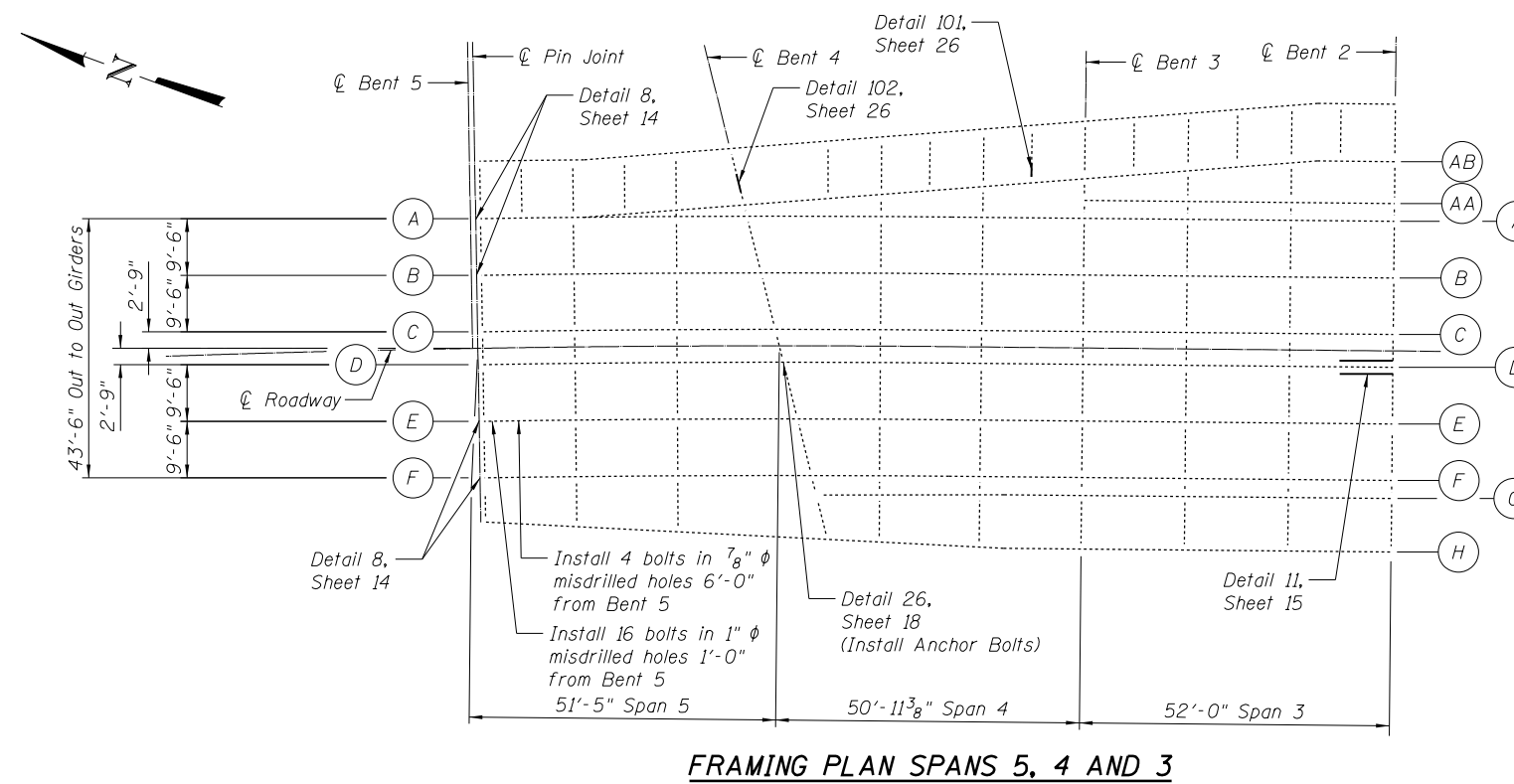
Note:
Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30
Guardrail bolt replacement locations not shown for clarity. See Sheet 24

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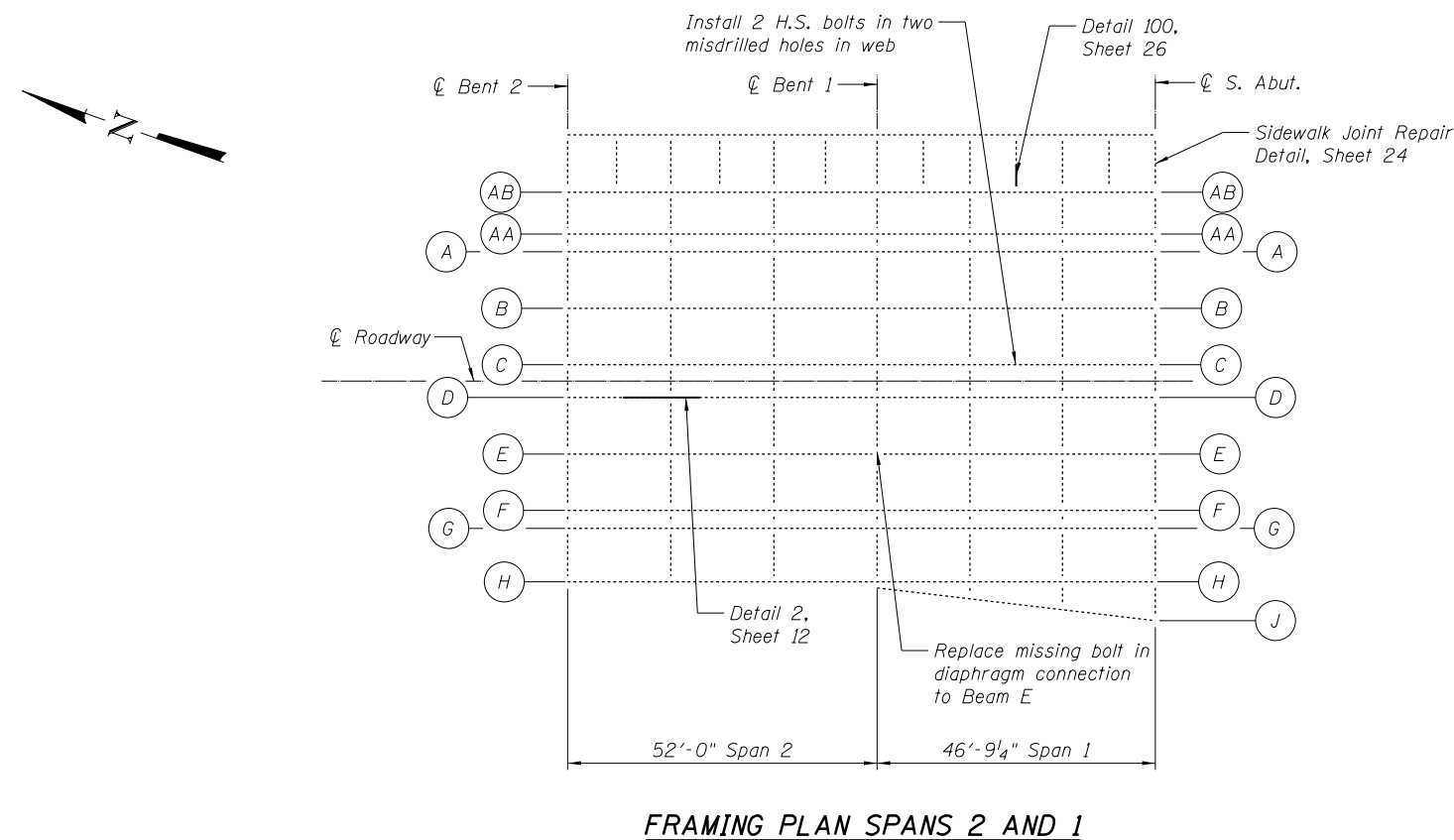
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	PLOT DATE = 1/21/2014	DRAWN - JMP	REVISOR	SHEET NO. 10 OF 33 SHEETS		ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	2,122
Bolt Replacement	Each	23
Anchor Bolts, 1 1/2"	Each	4
Silicone Joint Sealer	Ft	7



FRAMING PLAN SPANS 5, 4 AND 3



FRAMING PLAN SPANS 2 AND 1

Notes:
 Handrail post and railing replacement locations not shown for clarity. See Details 111-115, Sheets 29-30.
 Guardrail bolt replacement locations not shown for clarity. See Sheet 24.

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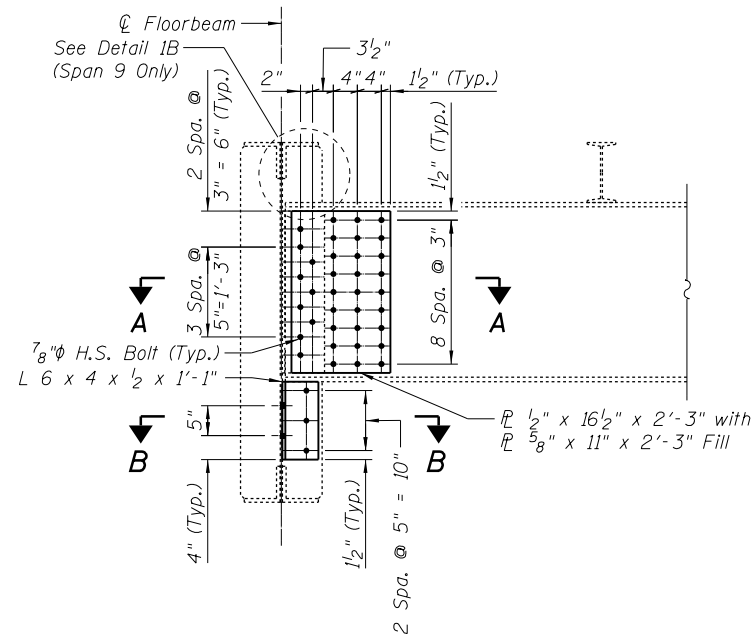
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PLOT DATE = 1/21/2014	CHECKED - SB	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN & REPAIR LOCATIONS SPANS 5-1
 STRUCTURE NO. 081-9905**

SHEET NO. 11 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	24
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

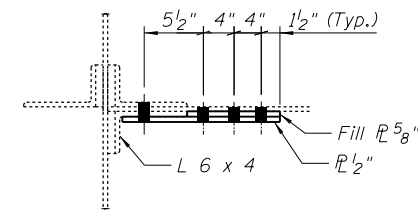


DETAIL 1

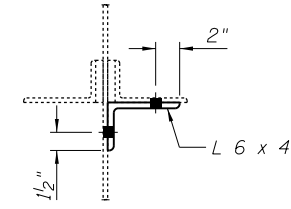
- Span 9 Str. A @ FB. 11, Panel 11 (Looking West)
- Span 10 Str. F @ FB. 9, Panel 9 (Looking West - Opp Hand)
- Span 10 Str. F @ FB. 11, Panel 12 (Looking East)
- Span 11 Str. F @ FB. 10, Panel 10 (Looking West)
- Span 11 Str. F @ FB. 10, Panel 11 (Looking West - Opposite Hand)
- Span 11 Str. F @ FB. 2, Panel 2 (Looking West)
- Span 11 Str. F @ FB. 13, Panel 13 (Looking West - Opp Hand)
- Span 11 Str. F @ FB. 13, Panel 14 (Looking East)
- Span 13 Str. F @ FB. 0, Panel 1 (Looking East)

Notes:

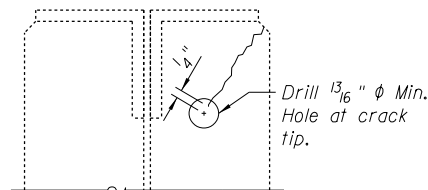
Contractor shall temporarily support stringer while connection is removed.
 Dead load reactions provided for temporary shoring and cribbing. Contractor to add construction live loads. All work associated with temporarily supporting girder shall be paid for as Temporary Shoring and Cribbing, Type 2. See Special Provisions.



SECTION A-A



SECTION B-B



DETAIL 1B

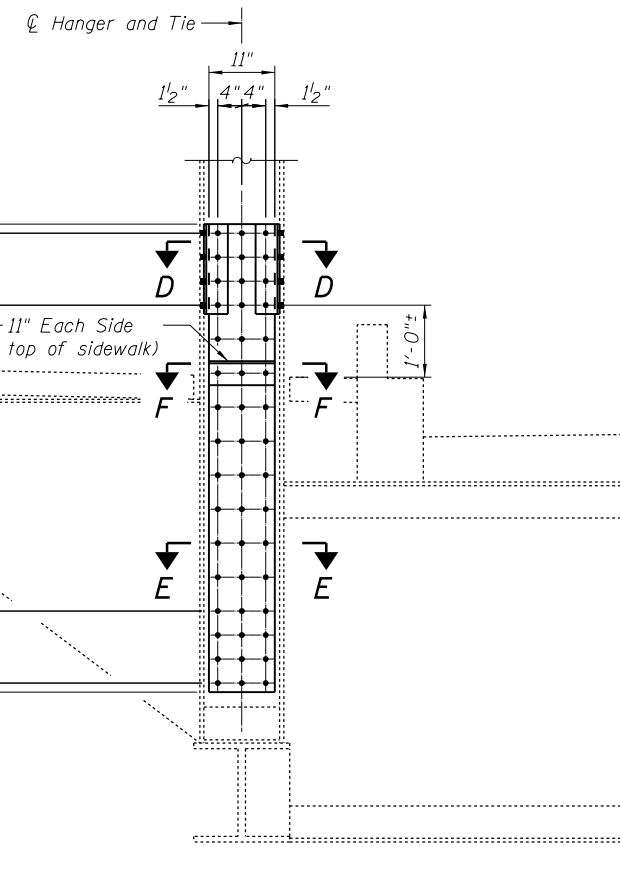
Span 9, Str. A @ FB. 11, Panel 11 Only

Note:

Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill 1 3/16" min. ϕ Crack Arrestor hole at the crack tip. After crack arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included in the cost of "Furnishing and Erecting Structural Steel".

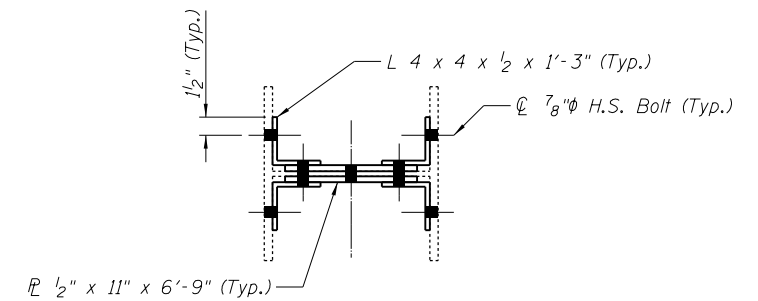
DETAIL 1 - DEAD LOAD REACTIONS

SPAN	BEAM	DEAD LOAD REACTIONS (KIPS)
9	A, F	26
10	A, F	26
11	A, F	26
13	A, F	26

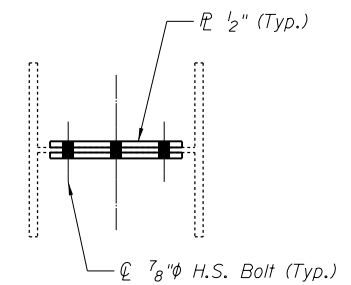


DETAIL 3

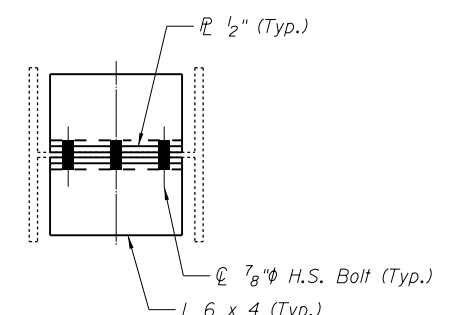
- Span 9, Hanger 7E
 - Span 9, Hanger 5E
 - Span 9, Hanger 2W
 - Span 9, Hanger 2E
 - Span 9, Hanger 6E
 - Span 9, Hanger 4E
 - Span 9, Hanger 1E
 - Span 10, Hanger 11W
 - Span 11, Hanger 10E
 - Span 12, Hanger 8E
- (Looking South Typ.)
 (Looking North Span 9, Hanger 2W)
 (Looking North Span 10, Hanger 11W)



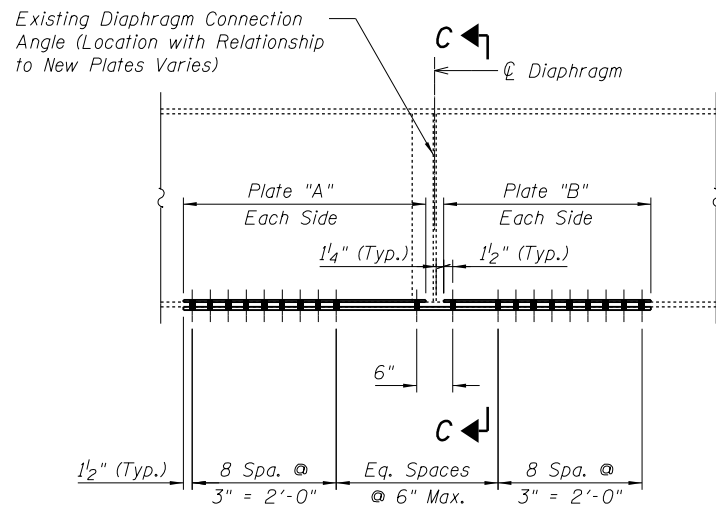
SECTION D-D



SECTION E-E

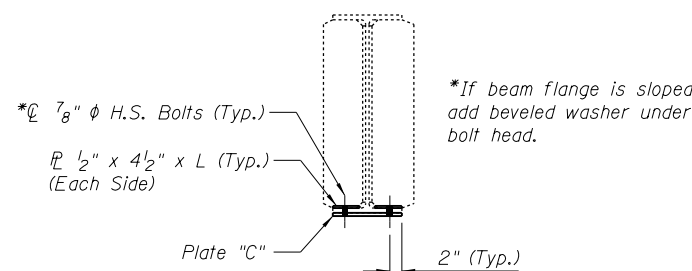


SECTION F-F



DETAIL 2

See Table for Locations and Plate Dimensions



SECTION C-C

DETAIL 2 - LOCATION AND PLATE SIZE SUMMARY

SPAN	BEAM	REPAIR LOCATION	PLATE "A"	PLATE "B"	PLATE "C"
2	D	2nd Diaphragm From Bent 2	1/2" x 4 1/2" x 6'-4 1/4"	1/2" x 4 1/2" x 6'-4 1/4"	1/2" x 11 1/2" x 12'-11"
11	E	Repair at 15'-8" From CL FB13	(2)-Top 1/2" x 4 1/2" x 17'-0"		1/2" x 11 1/2" x 17'-0"
16	C	3rd Diaphragm From Bent 10	1/2" x 4 1/2" x 2'-10 3/4"	1/2" x 4 1/2" x 6'-4 3/4"	1/2" x 11 3/4" x 9'-6"
16	C	2nd Diaphragm From Bent 10	1/2" x 4 1/2" x 3'-2 3/4"	1/2" x 4 1/2" x 2'-3"	1/2" x 11 3/4" x 5'-8 1/4"
16	C	4th Diaphragm From Bent 10	1/2" x 4 1/2" x 2'-3"	1/2" x 4 1/2" x 2'-10 3/4"	1/2" x 11 3/4" x 5'-4 1/4"
17	A	4th Diaphragm From Bent 11	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 12" x 4'-9"
17	C	4th Diaphragm From Bent 11	1/2" x 4 1/2" x 2'-6 1/4"	1/2" x 4 1/2" x 2'-6 1/4"	1/2" x 11 1/2" x 5'-3"
17	D	4th Diaphragm From Bent 11	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 4 1/2" x 5'-10 3/4"	1/2" x 11 1/2" x 10'-0"
18	C	4th Diaphragm From Bent 12	1/2" x 4 1/2" x 2'-10 3/4"	1/2" x 4 1/2" x 4'-10 3/4"	1/2" x 11 3/4" x 8'-0"
18	D	4th Diaphragm From Bent 12	1/2" x 4 1/2" x 2'-10 3/4"	1/2" x 4 1/2" x 4'-10 3/4"	1/2" x 11 3/4" x 8'-0"
19	A	4th Diaphragm From Bent 13	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 12" x 10'-0"
20	C	3rd Diaphragm From Bent 14	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 4 1/2" x 6'-10 3/4"	1/2" x 11 3/4" x 11'-0"
20	D	3rd Diaphragm From Bent 14	1/2" x 4 1/2" x 12'-10 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 11 3/4" x 17'-0"
21	C	4th Diaphragm From Bent 15	1/2" x 4 1/2" x 4'-10 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 11 3/4" x 9'-0"
21	C	5th Diaphragm From Bent 15	1/2" x 4 1/2" x 4'-10 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 11 1/2" x 9'-0"
21	D	5th Diaphragm From Bent 15	1/2" x 4 1/2" x 5'-10 3/4"	1/2" x 4 1/2" x 5'-10 3/4"	1/2" x 11 1/2" x 12'-0"
23	D	2nd Diaphragm From Bent 17	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 11 1/2" x 4'-9"
24	C	2nd Diaphragm From Bent 18	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 4 1/2" x 3'-11 1/4"	1/2" x 11 3/4" x 8'-0"
24	C	3rd Diaphragm From Bent 18	1/2" x 4 1/2" x 4'-4 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 11 1/2" x 8'-6"
24	D	3rd Diaphragm From Bent 18	1/2" x 4 1/2" x 4'-4 3/4"	1/2" x 4 1/2" x 3'-10 3/4"	1/2" x 11 1/2" x 8'-6"
27	A	2nd Diaphragm From Bent 21	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 4 1/2" x 2'-3 1/4"	1/2" x 11 3/4" x 4'-9"

Note: For this table, in referencing diaphragms, the first shall be on the pier or abutment.

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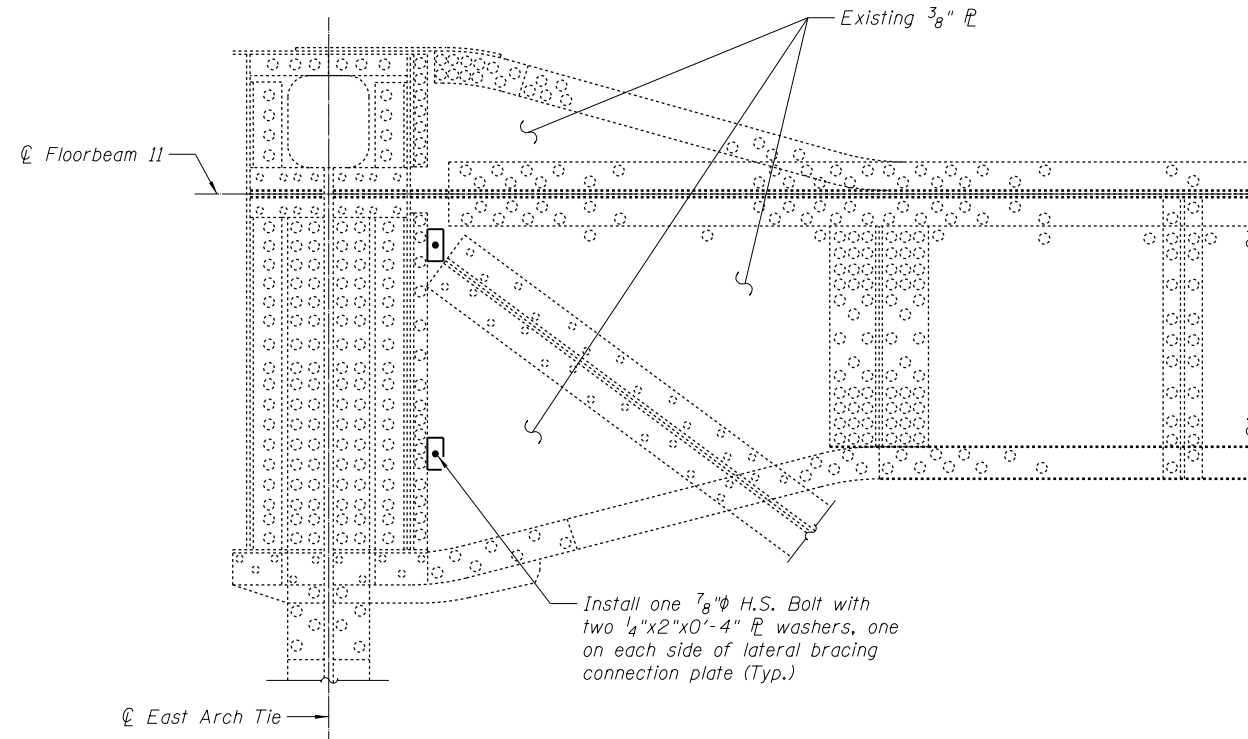
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS, SHEET 1
 STRUCTURE NO. 081-9905

SHEET NO. 12 OF 33 SHEETS

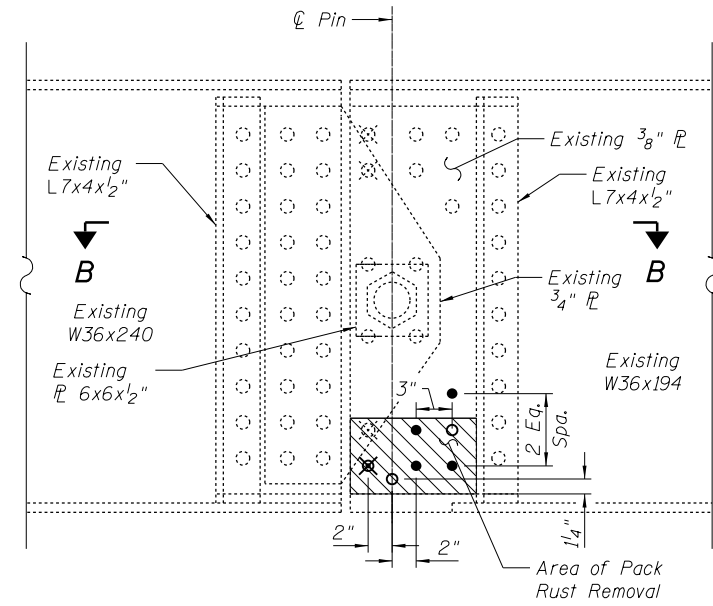
F.A.P. RTE. 308	SECTION (3BRM)	COUNTY ROCK ISLAND	TOTAL SHEETS 47	SHEET NO. 25
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



DETAIL 4

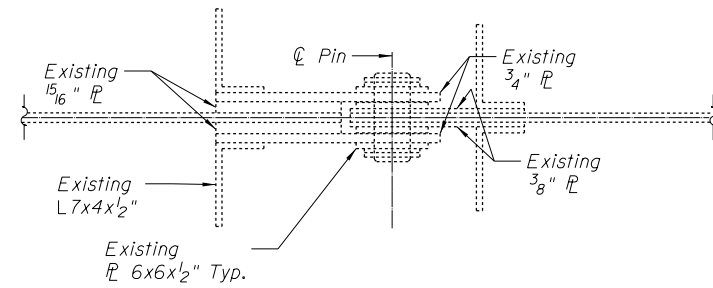
Span 12 Floorbeam 11 @ East Tie
(Plan View)

Install one 7/8" φ H.S. Bolt with two 1/4"x2"x0'-4" PL washers, one on each side of lateral bracing connection plate (Typ.)



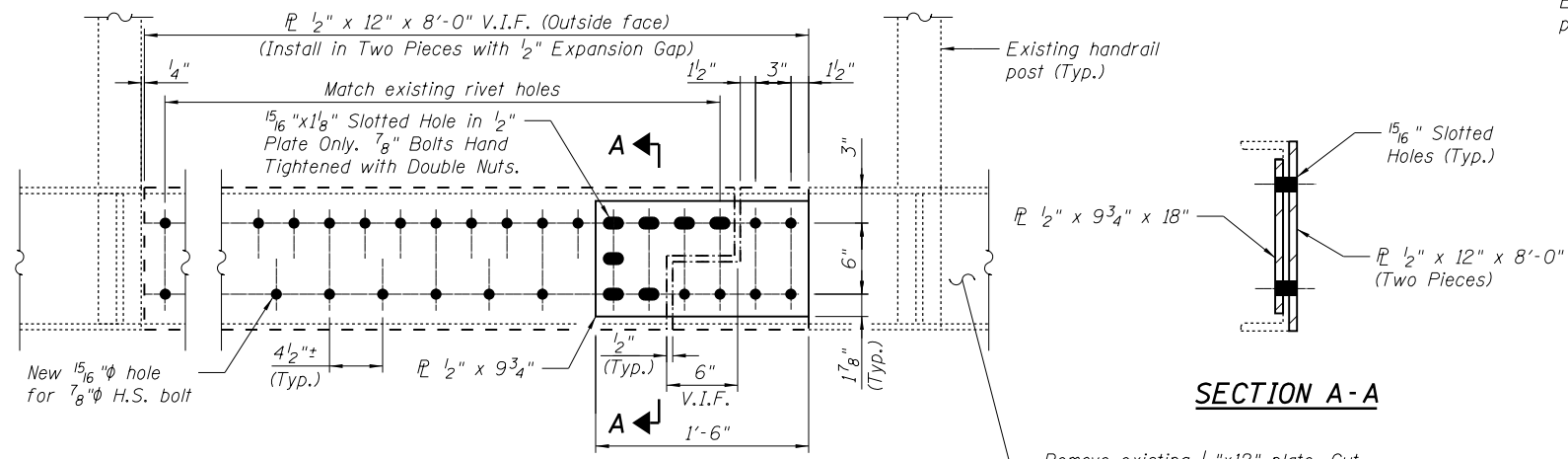
DETAIL 5

Span 21, Beam F
North Pin, West Face



SECTION A-A

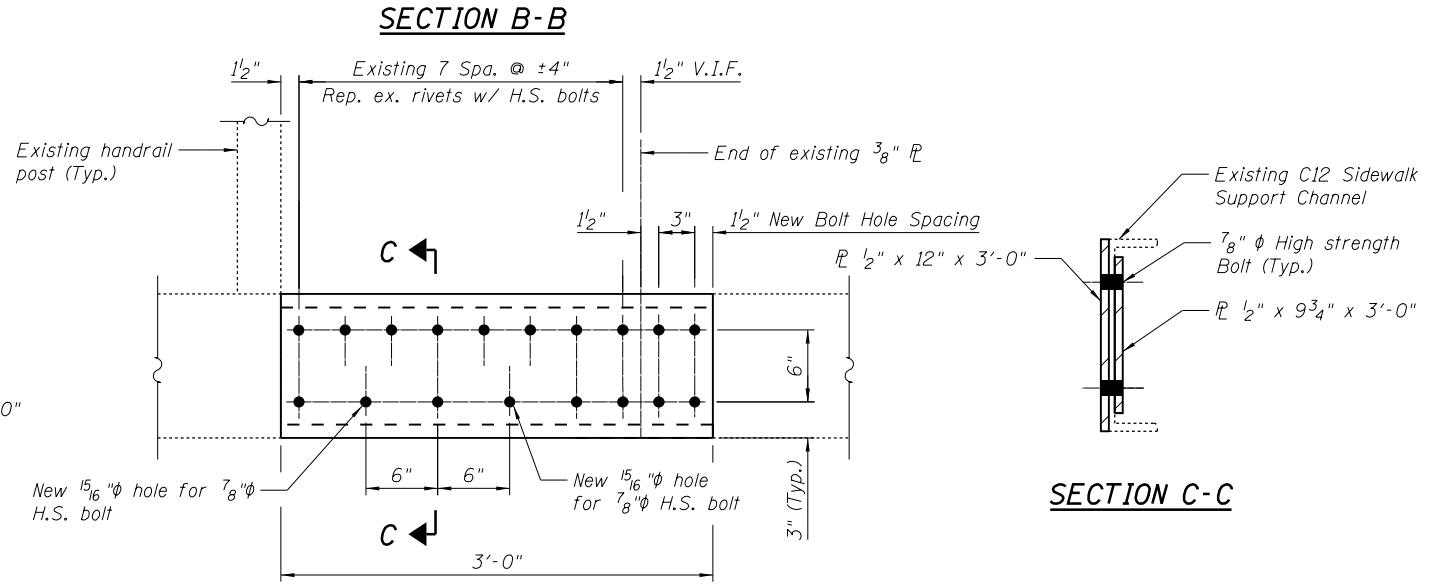
Remove existing 1/2"x12" plate. Cut off 8'-0" section at expansion joint. Replace remainder of existing plate and add Detail 6 new plates.



DETAIL 6

Span 21 East Sidewalk @ 2nd Bracket North from Bent 14
(Looking East)

Contractor to ensure support of sidewalk channel during splice plate exchange



DETAIL 7

Span 25 West Sidewalk, 6' North from Bent 18
(Looking East)

Contractor to ensure support of sidewalk channel during splice plate exchange

REPAIR SEQUENCE:

1. Drill out and remove designated flattened rivets.
2. Remove pack rust from between 3/8" bearing plates and web of W36x194 using hand tool or power tool methods.
3. Clean out bolt holes and tap threads in plates and web of W36x194 at location where threaded rod will be installed.
4. Install new 7/8" φ A325SC Bolts and Tighten to bring 3/8" plates into contact with web of W36x194.
5. Install new 1" φ H.S. threaded rod. Threaded rod should be cut short to allow for 1/8" of exposed threads on each 3/8" bearing plate.
6. Mar exposed threads on each 3/8" bearing plate to prevent threaded rod from rotating out of hole.

LEGEND:

- Existing Rivet
- Existing Flattened Rivet to be replaced with New 7/8" φ Hex Head Bolt
- ⊗ Existing Flattened Rivet to be replaced with New 1" φ H.S. Threaded Rod
- ⊗ Existing Flattened Rivet to Remain
- New 7/8" φ A325SC Hex Head Bolt

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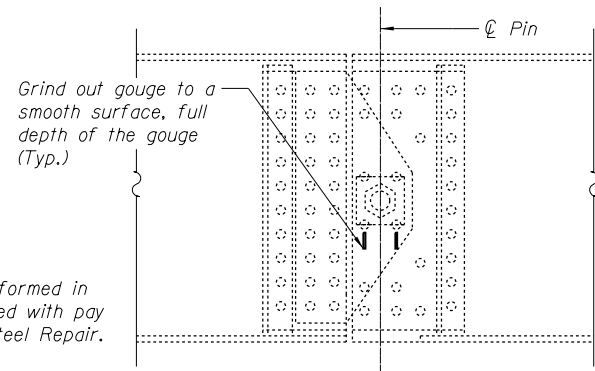
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL REPAIR DETAILS, SHEET 2
STRUCTURE NO. 081-9905**

SHEET NO. 13 OF 33 SHEETS

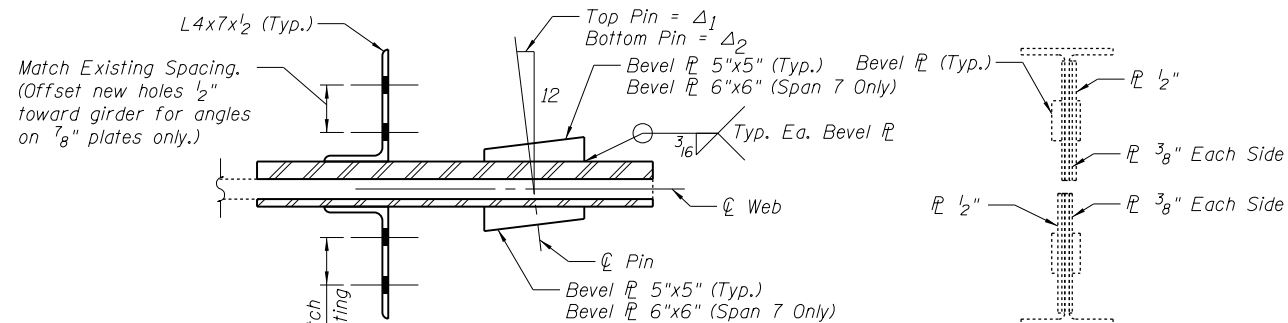
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	26
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



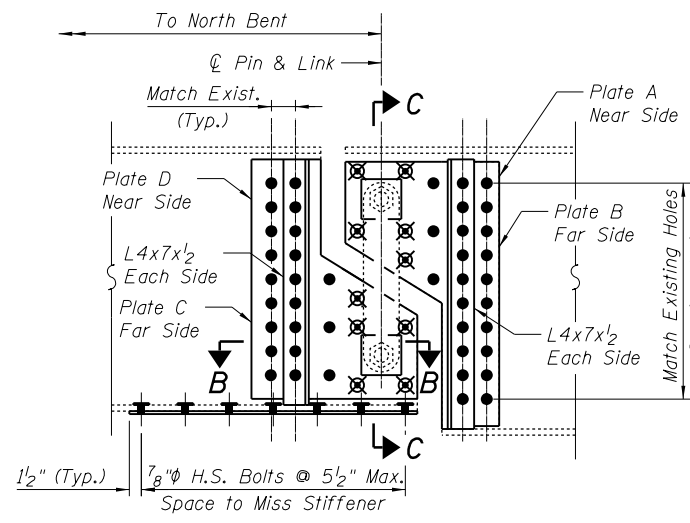
NOTE:
Cost of work performed in Detail 8 is included with pay item Structural Steel Repair.

DETAIL 8

Span 5 Beams A, B, E and F Pin near Bent 5
(Looking East for Beam B, E and F, Beam A Opposite Face)



SECTION B-B



DETAIL 10

See Plate A & B Detail, Plate C & D Detail, and Table for Plate Sizes and Locations.
Repair at Span 19, Beam B is similar and opposite.

Notes:

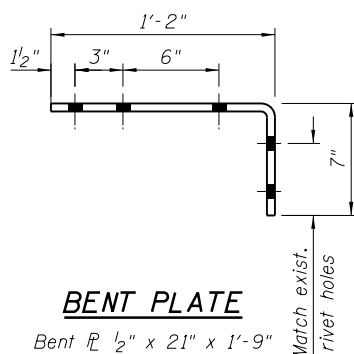
7/8" φ H.S. Flat Socket Cap Screw shall be installed from Plate A side on South Girder and Plate C side on North Girder. In the locations shown, Plates A and C shall have beveled holes to match the 7/8" φ H.S. Flat Socket Cap Screws.

Contractor to provide Flat Socket Cap Screws such that 1/4" of threads are exposed. Mar exposed threads to prevent screw from rotating out of hole.

Existing teflon bushing shall be replaced. New bushing thickness shall match existing. Bushings shall be a self lubricating filament wound epoxy matrix backed Duralon Bearing, metal backed Fiber Glide Bearing, or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20,000 psi. Teflon bushing replacement shall be included in Structural Steel Repair pay item.

Immediately before reinstalling existing link plates, apply 3/8" bead of Silicone Sealant to face of the web reinforcing plates approximately 1/2" from bushing. Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to Department's acceptance based on documented testing or other evidence. Silicone Sealant shall be included in Structural Steel Repair pay item.

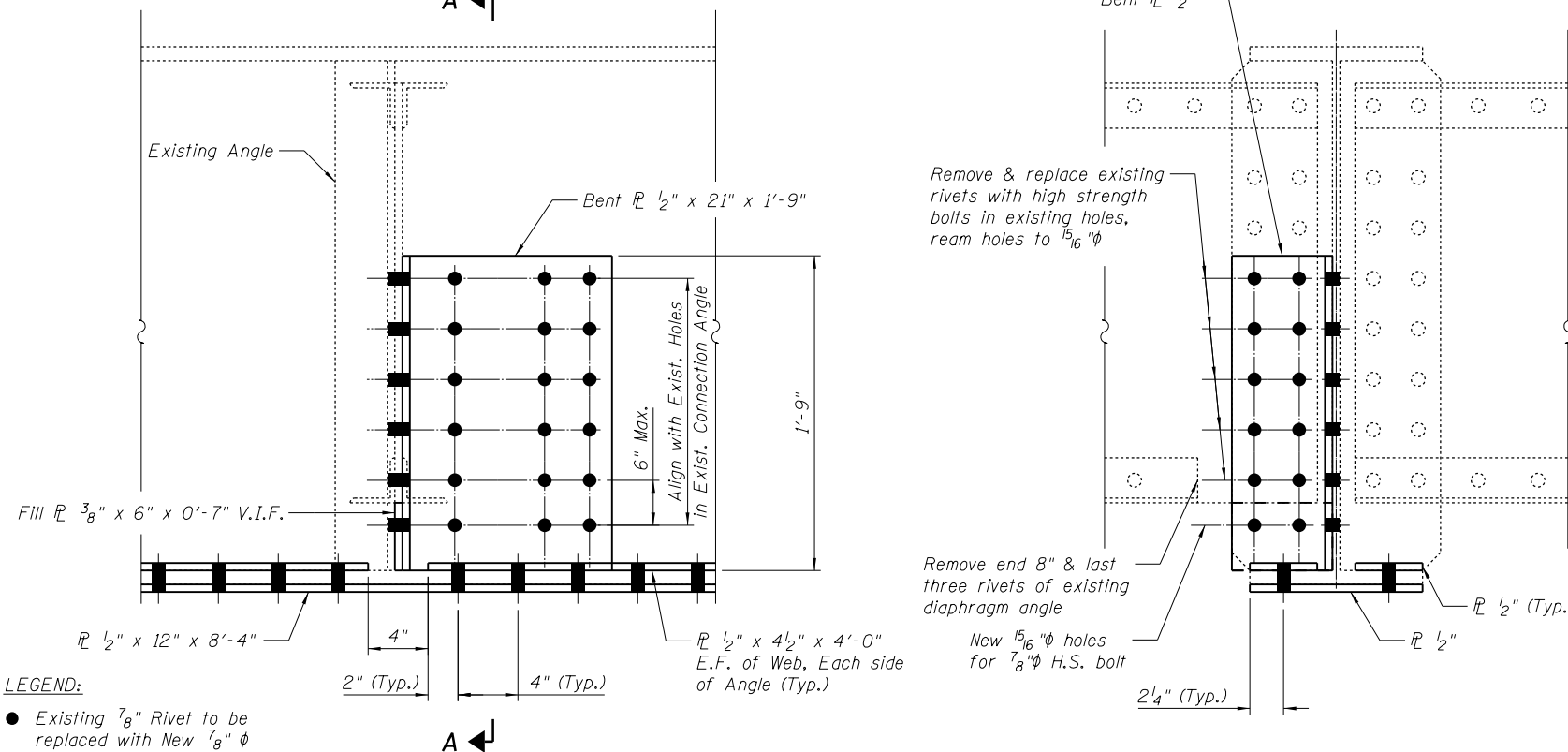
Contractor shall temporarily support girder while performing repairs at Pin and Link joints. Dead load reactions provided for temporary shoring and cribbing. Contractor to add construction live loads. All work associated with temporarily supporting girder shall be paid for as Temporary Shoring and Cribbing. See Special Provisions.



BENT PLATE

Bent 1/2" x 21" x 1'-9"

- LEGEND:**
- Existing 7/8" Rivet to be replaced with New 7/8" φ Hex Head Bolt
 - ⊗ Existing Flattened Rivet to be replaced with New 7/8" φ H.S. Flat Socket Cap Screw. Holes in plates to be tapped for 7/8" φ Flat Socket Cap Screw.



DETAIL 9

Span 18 Bm. D @ Mid. Span
(Looking East)

DETAIL 10 - LOCATION AND PLATE SIZE SUMMARY

SPAN	BEAM	LOCATION	NEW BOTTOM REPAIR PLATE	ANGLE LENGTH		BEVEL PLATE THICKNESS				PIN BORE DIA. *		Δ1	Δ2	
				NORTH	SOUTH	PLATE 1	PLATE 2	PLATE 3	PLATE 4	TOP PIN	BOT. PIN			
**	7	A	21' North of Bent 6	NOT REQUIRED	-	-	3/4" to 1 1/8"	3/4" to 1 1/8"	3/4" to 1 1/8"	3/4" to 1 1/8"	3"	3"	-	11/32
	7	C	24' North of Bent 6	PL 1/2" x 12" x 3'-0"	-	-	-	-	-	-	-	-	-	-
	17	B	16'-10 1/2" North of Bent 10	NOT REQUIRED	2'-7 3/16"	2'-9 13/16"	3/4" to 7/8"	7/8" to 1"	13/16" to 1 1/16"	11/16" to 15/16"	3"	3"	-	7/16
	17	C	16'-11 1/2" North of Bent 10	NOT REQUIRED	2'-7 3/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 15/16"	2 1/2"	2 1/2"	-	1/16
	17	E	17'-1" North of Bent 10	NOT REQUIRED	2'-7 3/16"	2'-9 13/16"	7/8" to 1"	3/4" to 7/8"	13/16" to 1 1/16"	11/16" to 15/16"	3"	3"	-	1/16
	17	F	17'-2" North of Bent 10	NOT REQUIRED	2'-9 13/16"	2'-9 13/16"	11/16" to 15/16"	15/16" to 1 1/16"	3/4" to 1"	3/4" to 1"	3"	3"	-	1/16
	19	B	16'-10 1/2" South of Bent 13	NOT REQUIRED	2'-9 13/16"	2'-7 3/16"	13/16" to 15/16"	11/16" to 15/16"	13/16" to 1 1/16"	11/16" to 15/16"	3"	3"	7/16	-
	23	A	North Side of Bent 16	NOT REQUIRED	2'-9 13/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 15/16"	3"	3"	-	17/32
	23	B	North Side of Bent 16	NOT REQUIRED	2'-9 13/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 1 1/16"	3/4" to 1 1/8"	3"	3"	-	17/32
	23	C	North Side of Bent 16	PL 1/2" x 11 1/2" x 3'-0"	2'-7 3/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	3/4" to 1 1/8"	11/16" to 1 1/16"	2 1/2"	2 1/2"	-	17/32
	23	D	North Side of Bent 16	PL 1/2" x 11 1/2" x 3'-0"	2'-7 3/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	3/4" to 1 1/8"	11/16" to 1 1/16"	2 1/2"	2 1/2"	-	17/32
	23	E	North Side of Bent 16	PL 1/2" x 11 1/2" x 3'-0"	2'-9 13/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	13/16" to 1 1/16"	3/4" to 1 1/8"	3"	3"	-	17/32
	23	F	North Side of Bent 16	PL 1/2" x 12" x 3'-0"	2'-9 13/16"	2'-9 13/16"	13/16" to 15/16"	13/16" to 15/16"	3/4" to 1 1/8"	3/4" to 1 1/8"	3"	3"	-	17/32

PL 7/8" (Plate C)
PL 3/8" (Plate D)
PL 5/8" (Plate C, Span 7 Only)

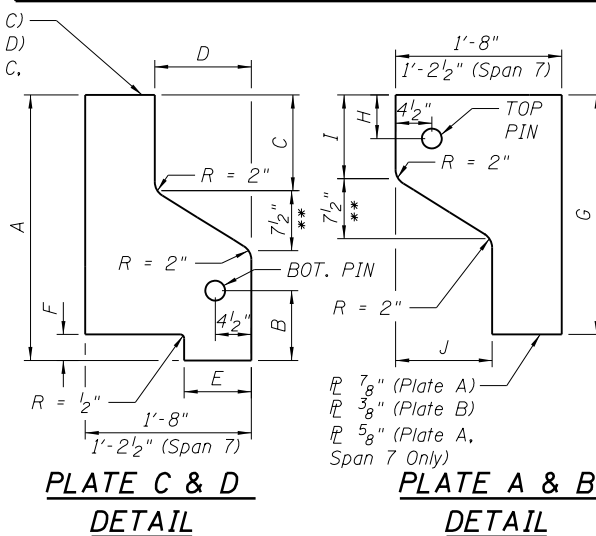


PLATE C & D DETAIL

PLATE A & B DETAIL

SPAN	BEAM	PLATE C & D DIMENSIONS						PLATE A & B DIMENSIONS				DEAD LOAD REACTIONS (KIPS)	
		A	B	C	D	E	F	G	H	I	J		
**	7	A	2'-0 1/4"	8 3/8"	N/A	1'-0 1/8"	N/A	N/A	2'-0 1/4"	8 3/8"	1'-0 9/16"	1'-0 1/8"	61
	7	C	-	-	-	-	-	-	-	-	-	-	39
	17	B	2'-6 1/2"	5 3/8"	1'-0 5/8"	1'-0"	N/A	N/A	2'-9"	5 1/4"	10 3/4"	1'-0"	25
	17	C	2'-6 1/2"	5 3/8"	1'-0 5/8"	1'-0"	N/A	N/A	2'-9"	5 1/2"	11"	1'-0"	22
	17	E	2'-6 1/2"	5 3/8"	1'-0 5/8"	1'-0"	N/A	N/A	2'-9"	5 1/4"	10 3/4"	1'-0"	25
	17	F	3'-0"	8 1/2"	1'-2"	1'-0"	9"	2"	2'-8 1/2"	5 1/4"	1'-0 1/4"	1'-0"	34
	19	B	2'-6 1/2"	5 3/8"	1'-0 5/8"	1'-0 1/2"	N/A	N/A	2'-9"	5 1/4"	10 3/4"	1'-0 3/4"	25
	23	A	2'-11 1/8"	8 1/4"	1'-2"	1 1/4"	9"	1 3/4"	2'-8 1/2"	5 3/8"	1'-0 1/8"	1'-0 1/4"	36
	23	B	2'-9"	3 3/4"	1'-2"	1 1/4"	N/A	N/A	2'-9"	5 1/4"	1'-0"	1'-0 1/4"	32
	23	C	2'-6 3/8"	5"	1'-0 5/8"	1 1/4"	N/A	N/A	2'-9"	5 1/2"	11"	1'-0 1/4"	27
	23	D	2'-6 3/8"	5"	1'-0 5/8"	1 1/4"	N/A	N/A	2'-9"	5 1/2"	11"	1'-0 1/4"	27
	23	E	2'-9"	3 3/4"	1'-2"	1 1/4"	N/A	N/A	2'-9"	5 1/4"	1'-0"	1'-0 1/4"	32
	23	F	2'-11 1/8"	8 1/4"	1'-2"	1 1/4"	9"	1 3/4"	2'-8 1/2"	5 3/8"	1'-0 1/8"	1'-0 1/4"	36

Verify all dimensions in field prior to ordering steel.

* Contractor shall increase given pin bore diameters by the thickness of the new teflon bushing. Thickness of new teflon bushing shall match existing.

** Replace 5/8" web plates at pins only. Plate dimensions provided for Span 7 Beam A repair are estimates only. Contractor shall verify dimensions prior to ordering steel.

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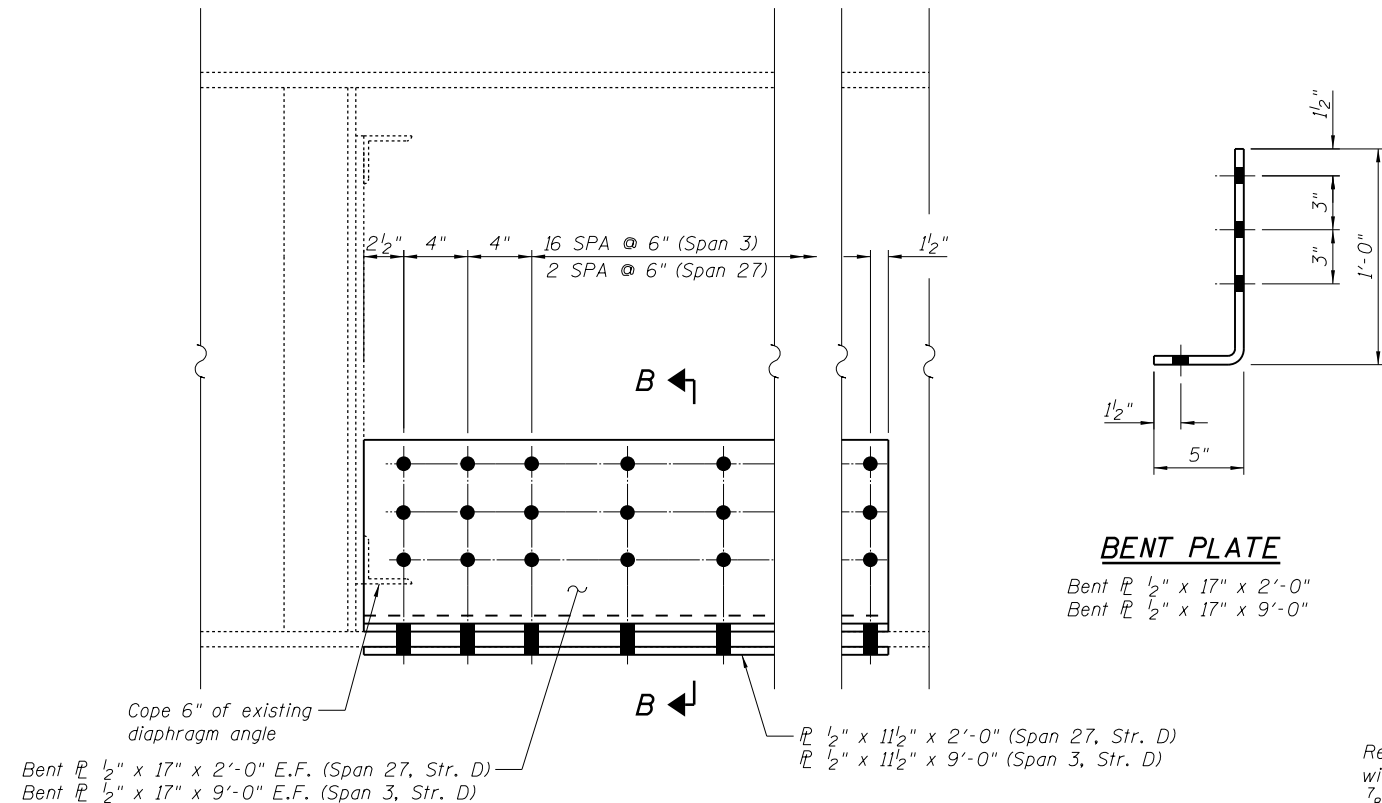
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STATE OF ILLINOIS
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STRUCTURAL STEEL REPAIR DETAILS, SHEET 3
STRUCTURE NO. 081-9905
SHEET NO. 14 OF 33 SHEETS

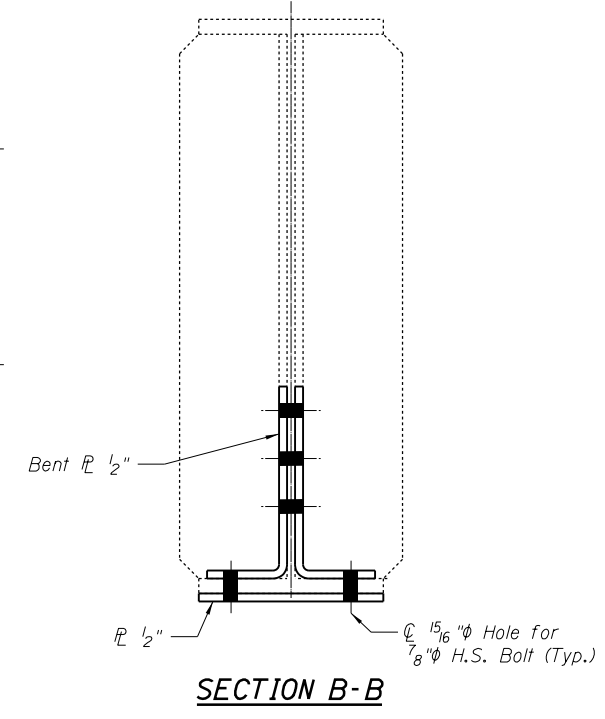
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM	ROCK ISLAND	47	27
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

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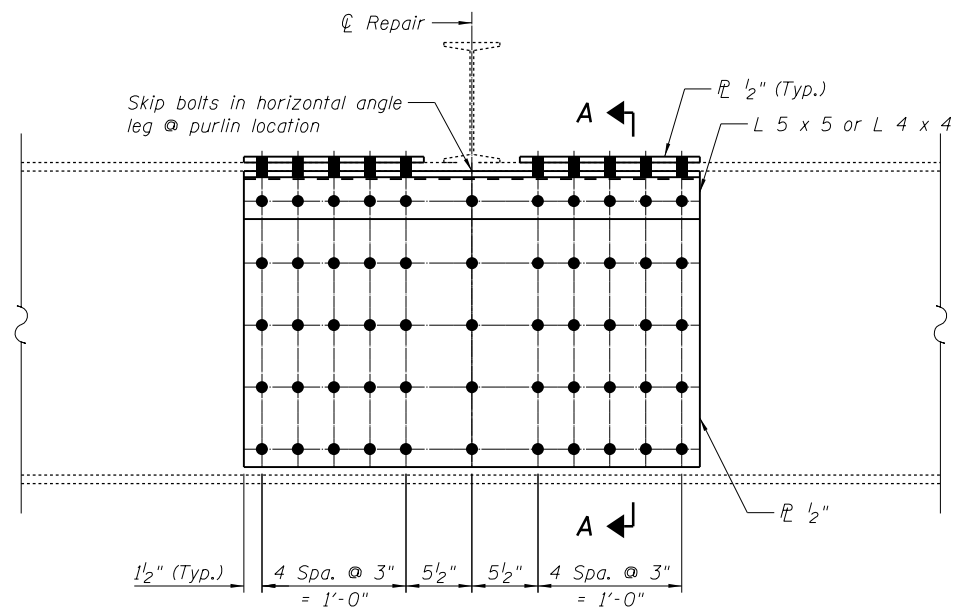


BENT PLATE

Bent $\frac{1}{2}$ " x 17" x 2'-0"
 Bent $\frac{1}{2}$ " x 17" x 9'-0"

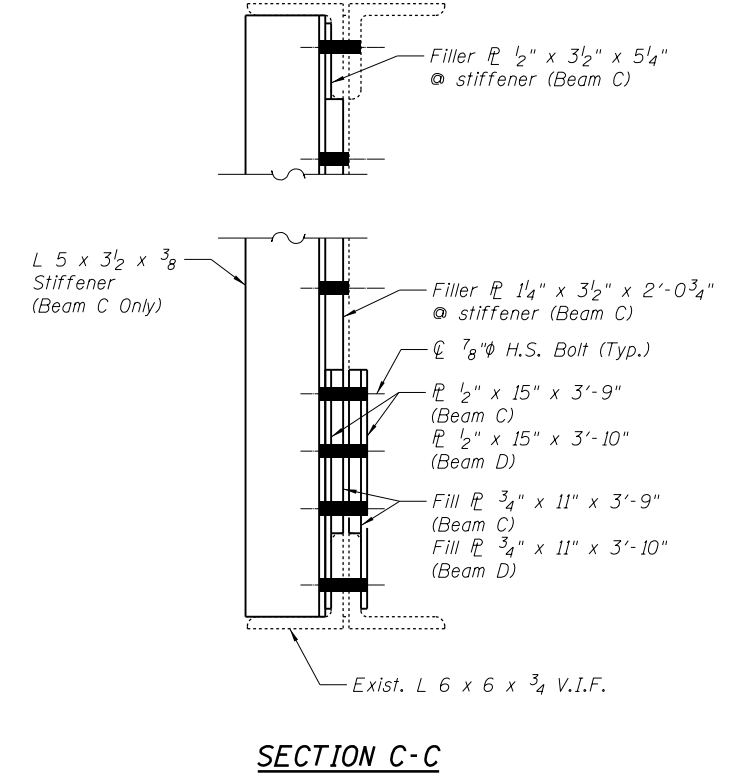
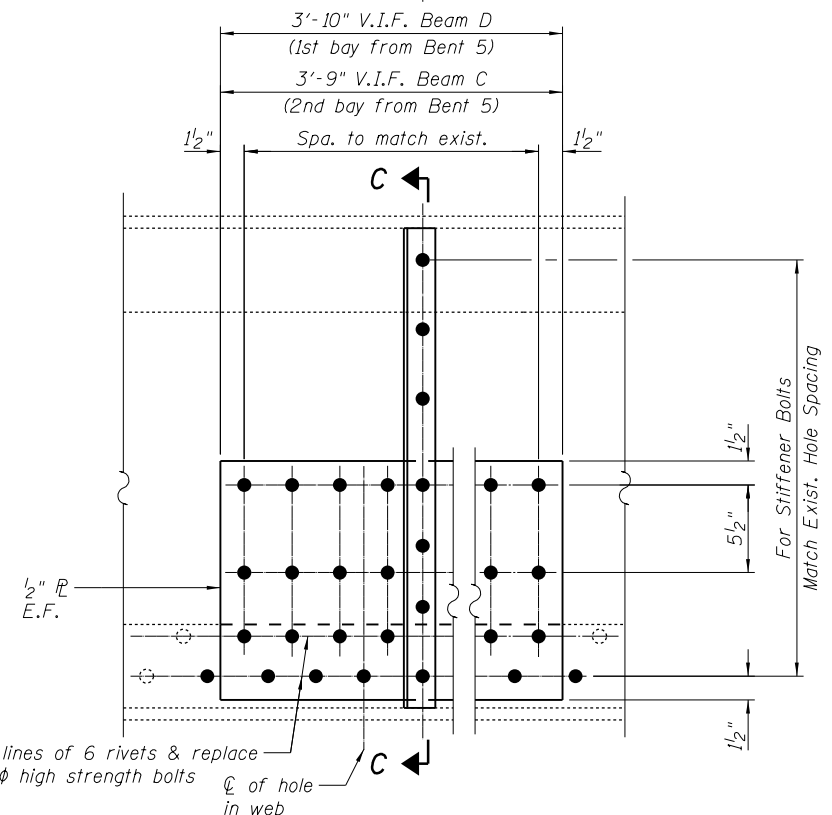
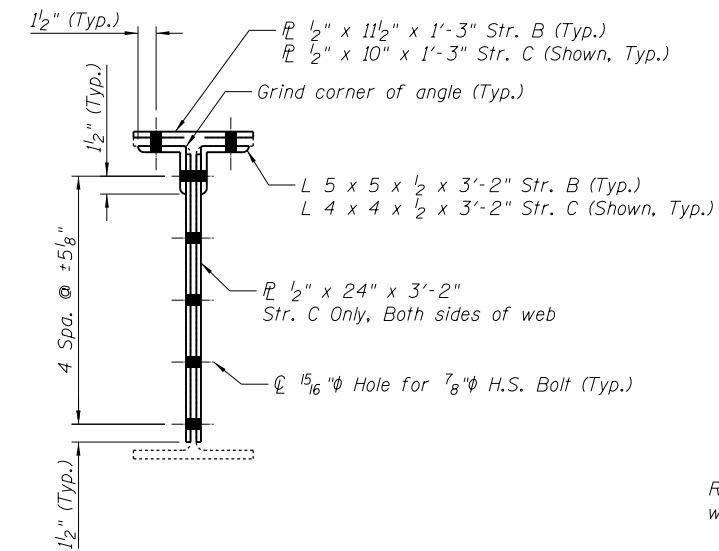


Remove and replace existing stiffener with L 5 x 3 $\frac{1}{2}$ and rivets with $\frac{7}{8}$ " ϕ H.S. Bolts (Beam C Only)



DETAIL 12

Span 10 Str. B, 22'-11 $\frac{1}{4}$ " South of FB. 2
 Span 10 Str. C, 8'-10 $\frac{3}{4}$ " South of FB. 0 (Looking East)



SPAN	BEAM	LOCATION	COVER PLATE	STIFFENER	FILL PLATE @ STIFF.	FILL PLATE	FILL PLATE
6	C	15' from Bent 5	$\frac{1}{2}$ " x 15" x 3'-9"	L 5" x 3 $\frac{1}{2}$ " x $\frac{3}{8}$ " x 2'-11"	$\frac{1}{4}$ " x 3 $\frac{1}{2}$ " x 2'-0 $\frac{3}{4}$ "	$\frac{3}{4}$ " x 11" x 3'-9"	$\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "
6	D	6' from Bent 5	$\frac{1}{2}$ " x 15" x 3'-10"	N/A	N/A	$\frac{3}{4}$ " x 11" x 3'-10"	N/A

DETAIL 13 - LOCATION AND PLATE SUMMARY



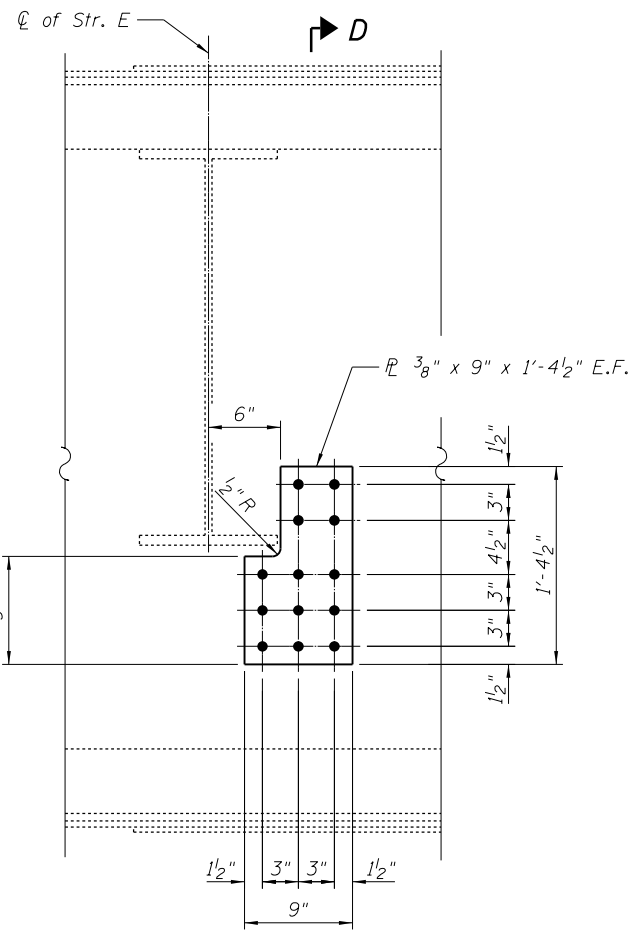
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

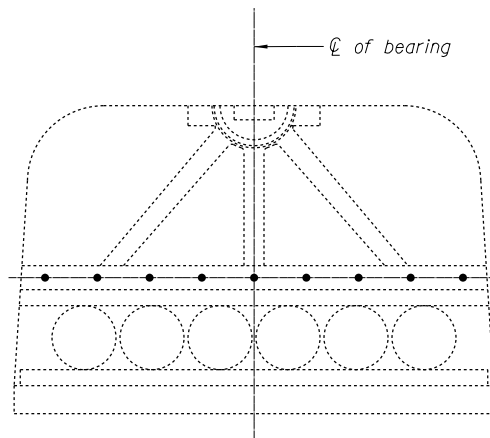
**STRUCTURAL STEEL REPAIR DETAILS, SHEET 4
 STRUCTURE NO. 081-9905**

SHEET NO. 15 OF 33 SHEETS

F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	28
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



DETAIL 14
Span 9 Floorbeam 8 @ Str. E
(Looking North)



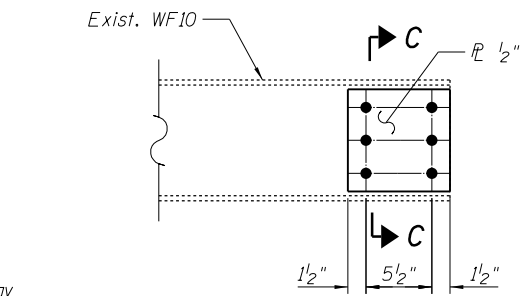
Pier 2:
Reattach 3/16" dust guard plate with 1/2" ϕ cap screws with 1/16" ϕ x 0.177" thick washers

Pier 1:
Provide new 3/16" dust guard plate with 1/2" ϕ cap screws with 1/16" ϕ x 0.177" thick washers.

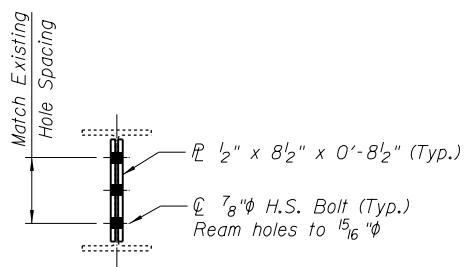
DETAIL 15
Span 10, West Bearing @ Pier 2
(Looking East)
Span 9, East Bearing @ Pier 1
(Looking East)

NOTE:
Cost of work performed in Detail 15 is included with pay item Structural Steel Repair.

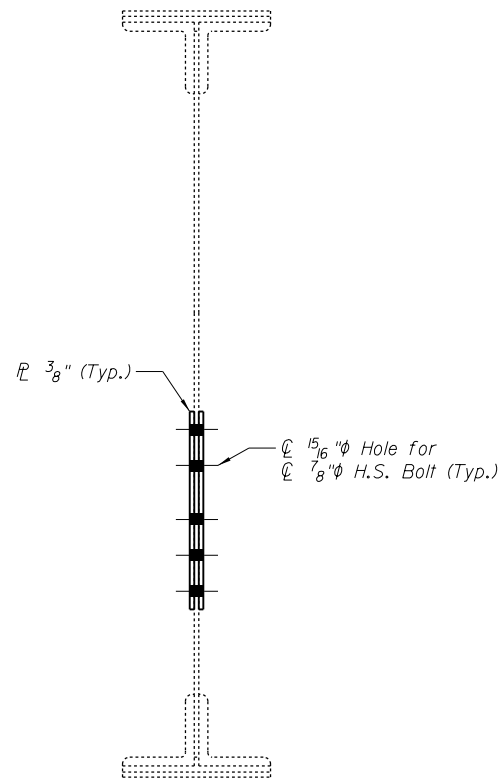
Retap 9 - 1/2" ϕ cap screw holes (Pier 2), 6-holes (Pier 1), blow out & grease the holes



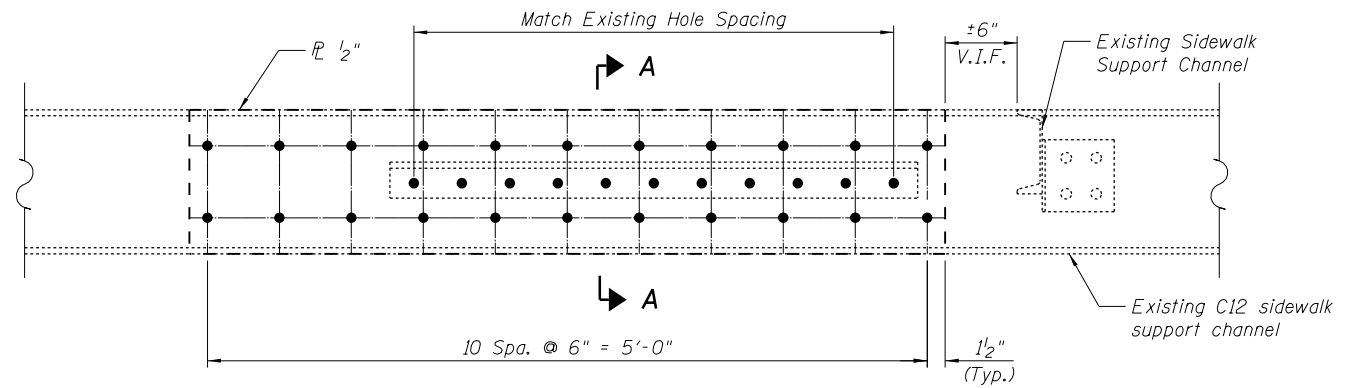
DETAIL 17
Span 9, 3rd Purlin South of Floorbeam 3
(Looking North)



SECTION C-C

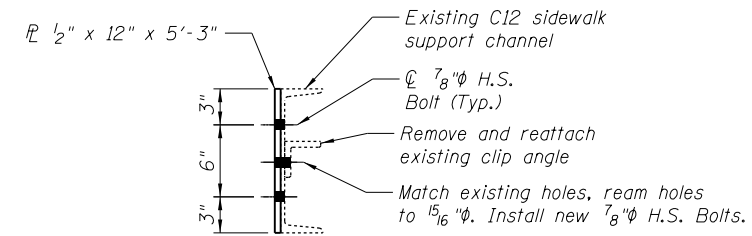


SECTION D-D

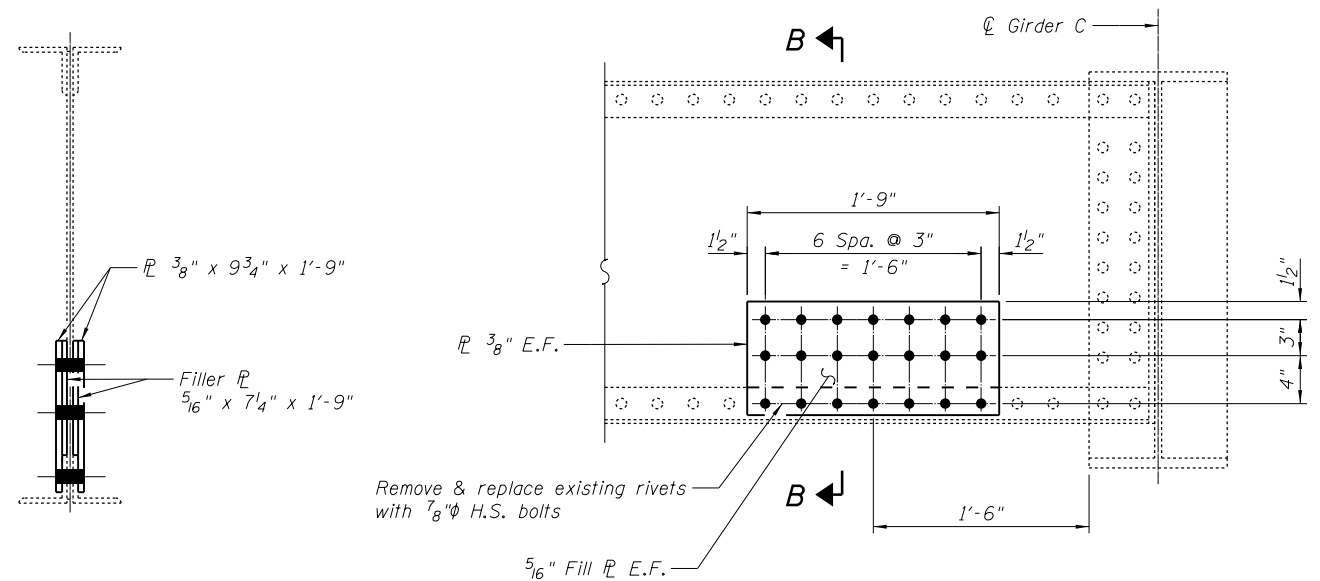


DETAIL 16

Span 13 Sidewalk Support Channel,
West Side @ Pier 6
(Looking East)

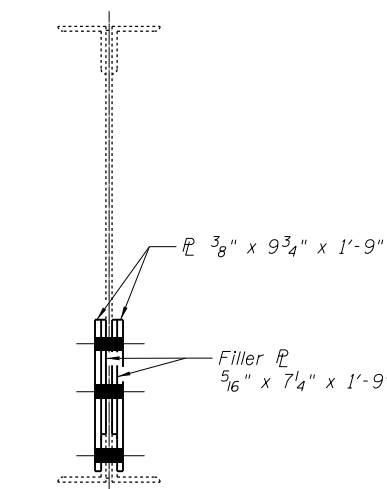


SECTION A-A



DETAIL 18

Span 23 Diaphragm Between Str. B & Str. C @ Bent 16
(Looking South)



SECTION B-B

FILE NAME = I:\Projects\4015550\4015550_0001\90_CAD_Models_and_Sheets\04_CJ_Bridge\08150905-64H28-015-Details 5.dgn



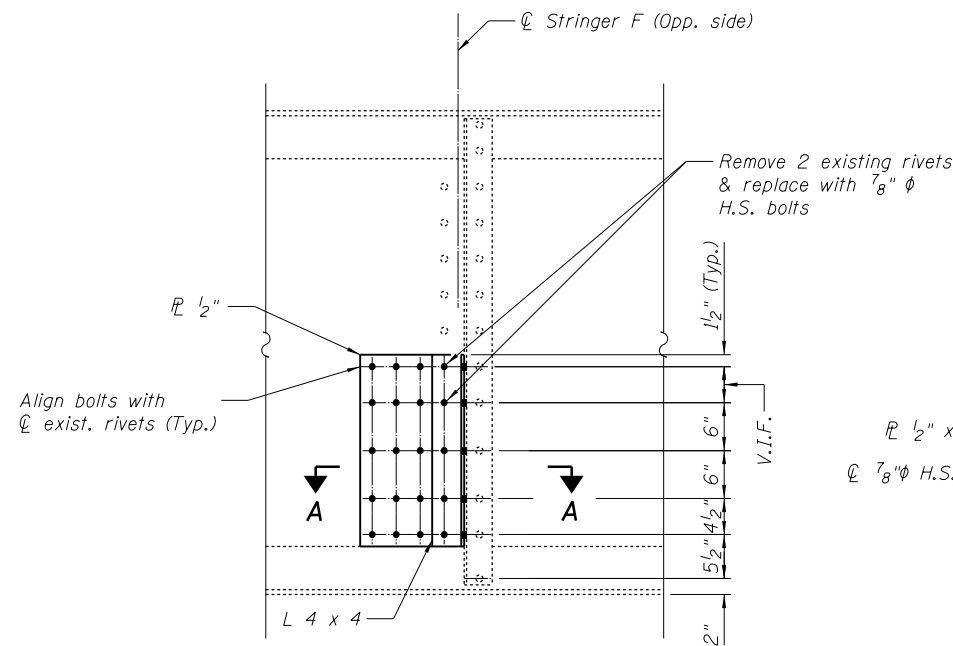
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS, SHEET 5
STRUCTURE NO. 081-9905

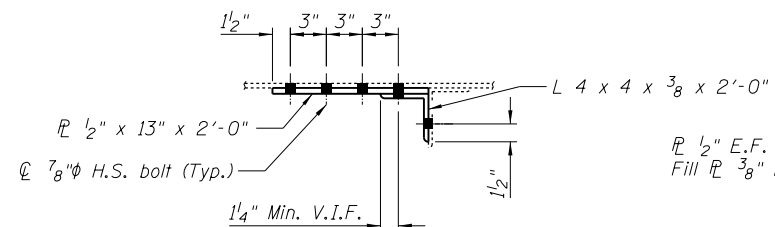
SHEET NO. 16 OF 33 SHEETS

F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	29
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

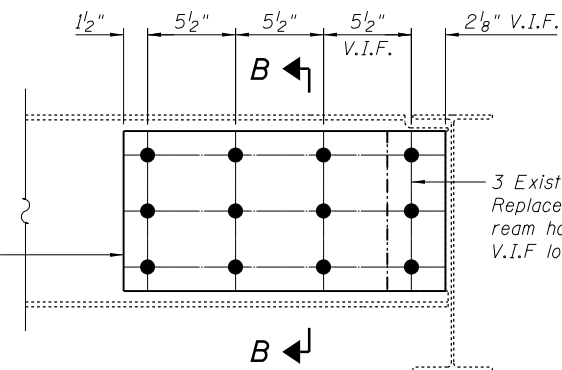


DETAIL 19

Span 9 Floorbeam 11 @ Str. F
(Looking North)



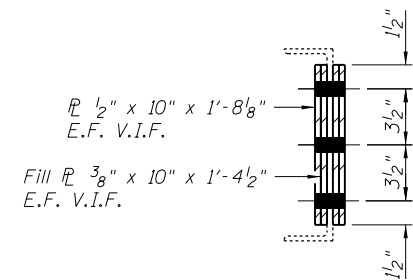
SECTION A-A



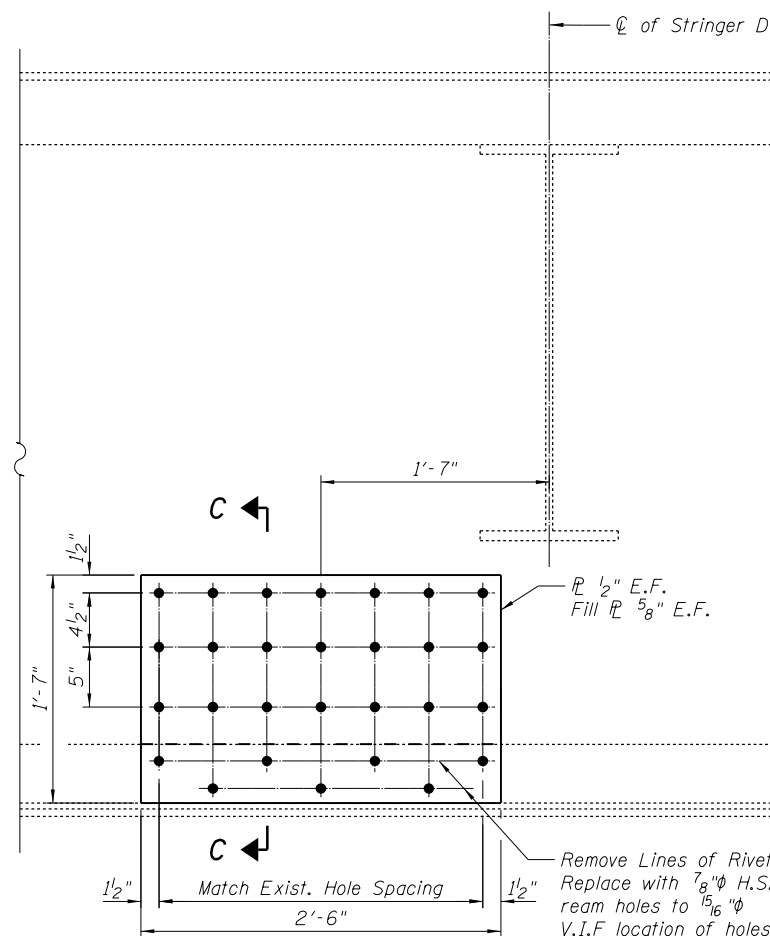
DETAIL 20

Span 7 Sign Support Channel,
East Side @ 6th Bracket from Bent 6
(Looking West)
Span 7, Sign Support Channel,
West Side @ 4th Bracket from Bent 7
(Looking East)

3 Existing Bolts,
Replace with 7/8" φ H.S. Bolts
ream holes to 15/16" φ
V.I.F. location of holes

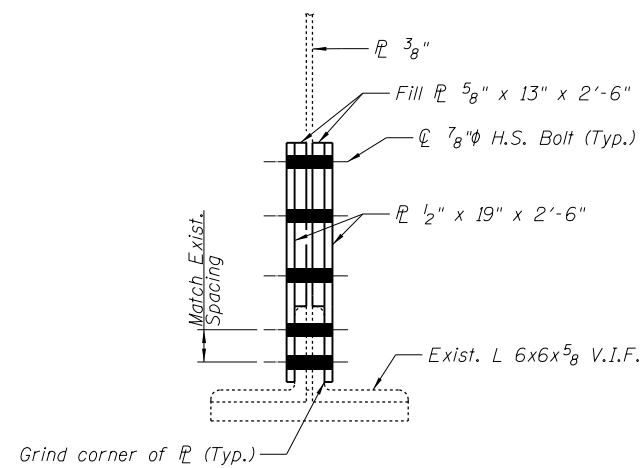


SECTION B-B

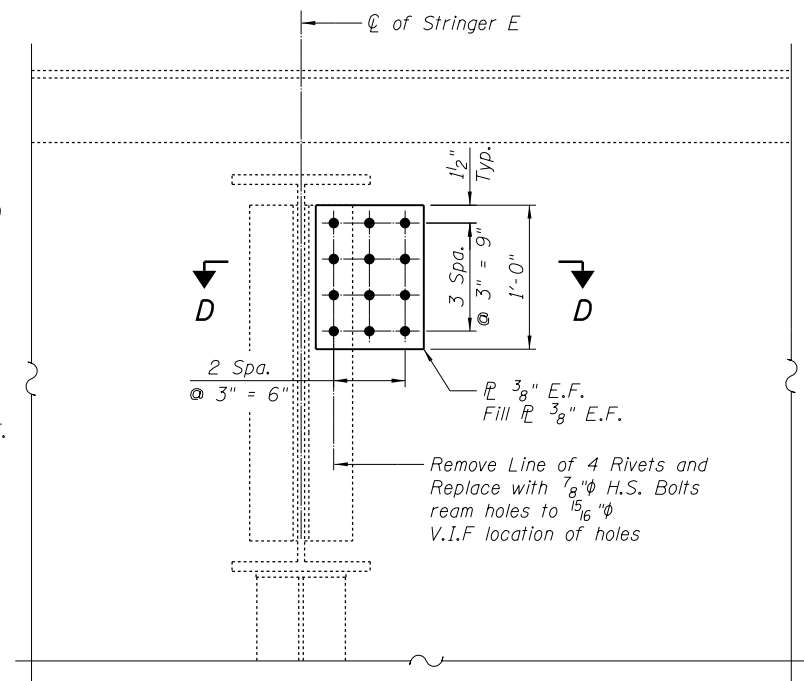


DETAIL 21

Span 9 Floorbeam 5 Between Str. D & E
(Looking North)

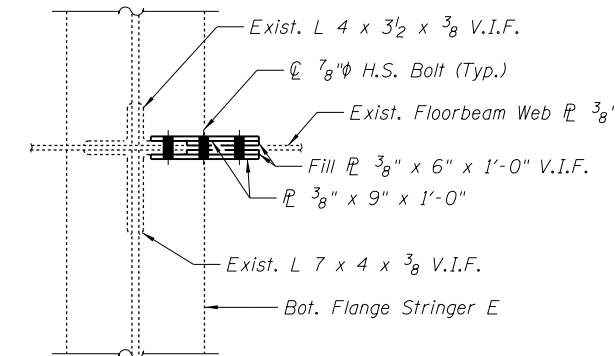


SECTION C-C



DETAIL 22

Span 13 Str. E @ Floorbeam 0
(Looking North)



SECTION D-D

FILE NAME = I:\Projects\4015550\4015550-0001-90-CAD Models and Sheets\04_CJ_Bridge\081908-64H28-016-Details 6.dgn



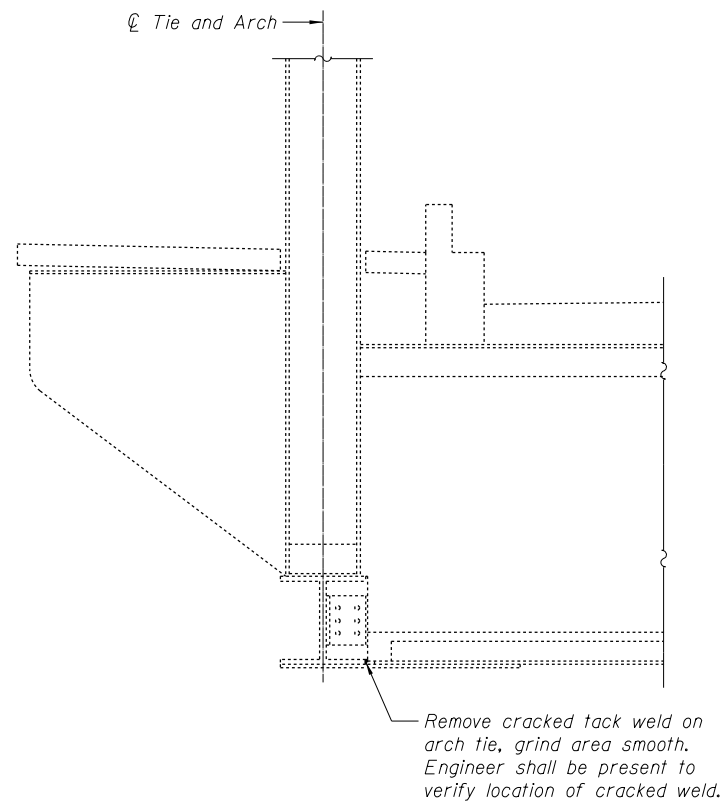
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS, SHEET 6
STRUCTURE NO. 081-9905

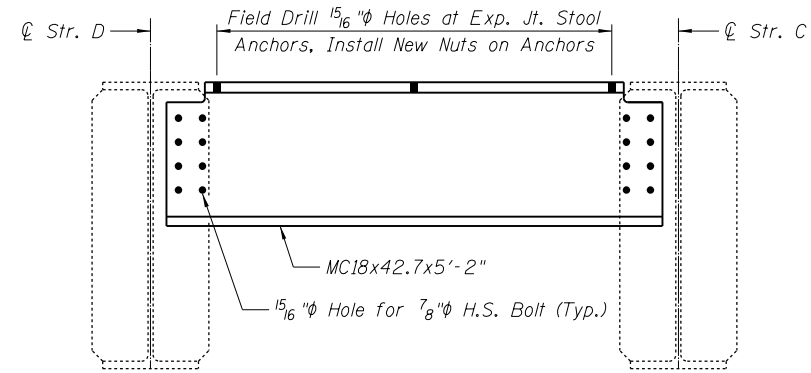
SHEET NO. 17 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	30
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



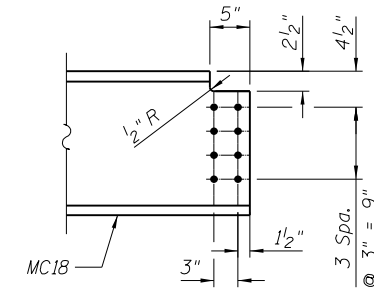
DETAIL 23

Span 10 West Tie @ West End of FB. 10 (Looking South - Opposite Hand)
 Span 11 West Tie @ West End of FB. 9 (Looking North)
 Span 11 West Tie @ West End of FB. 4 (Looking North)

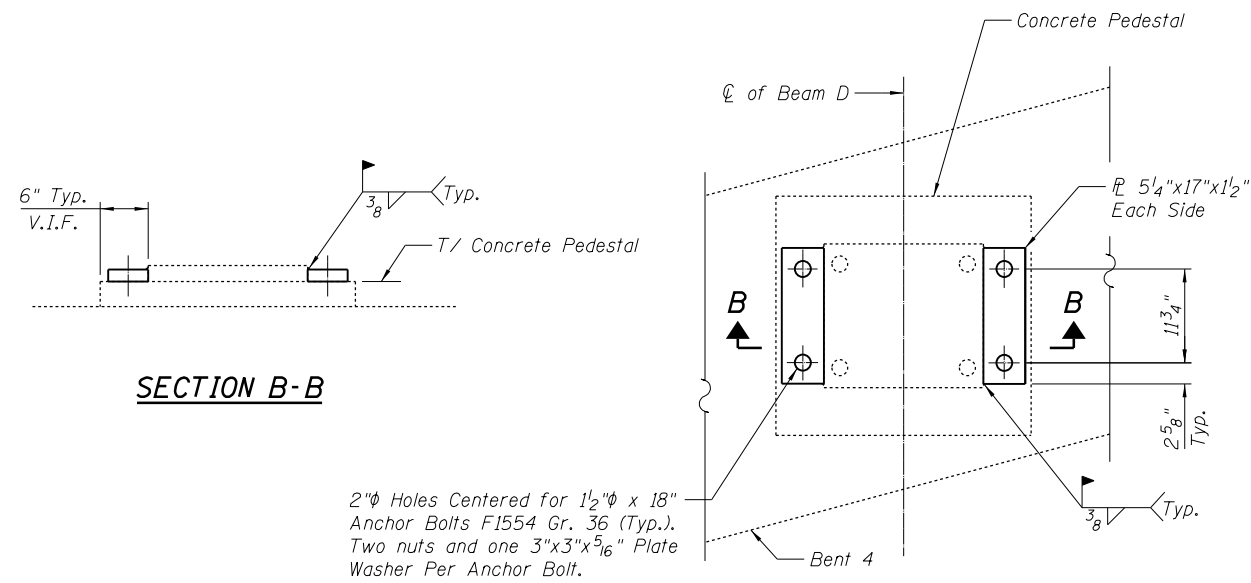


DETAIL 24

Span 22 Diaphragm Between
 Str. C & Str. D Over Bent 16
 (Looking North)



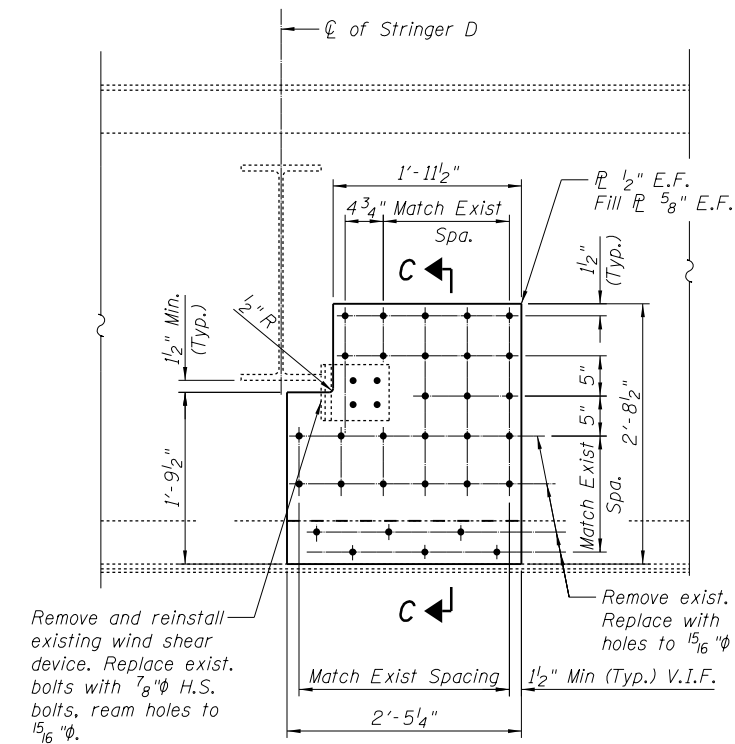
DIAPHRAGM END DETAIL



SECTION B-B

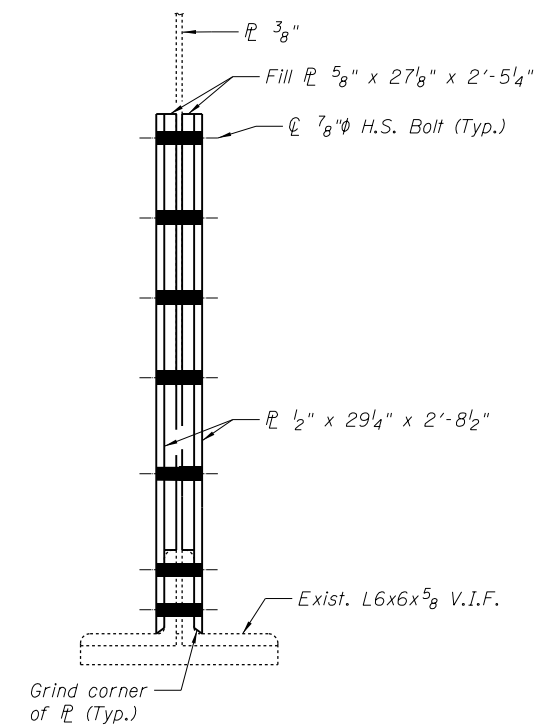
DETAIL 26

Bent 4 @ Beam D



DETAIL 25

Span 9 Floorbeam 2 @ Str. D
 (Looking North)



SECTION C-C

FILE NAME = I:\Projects\4015550\4015550-081-90-001-90-CAD Models and Sheets\04_CJ_Bridge\081-90-001-90-Details 7.dgn



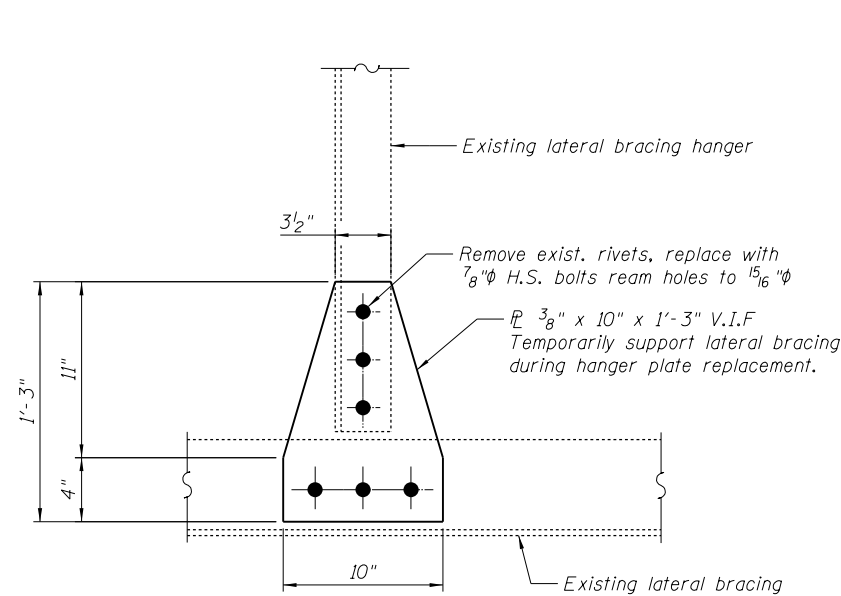
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STATE OF ILLINOIS
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STRUCTURAL STEEL REPAIR DETAILS, SHEET 7
 STRUCTURE NO. 081-9905

SHEET NO. 18 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	31
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



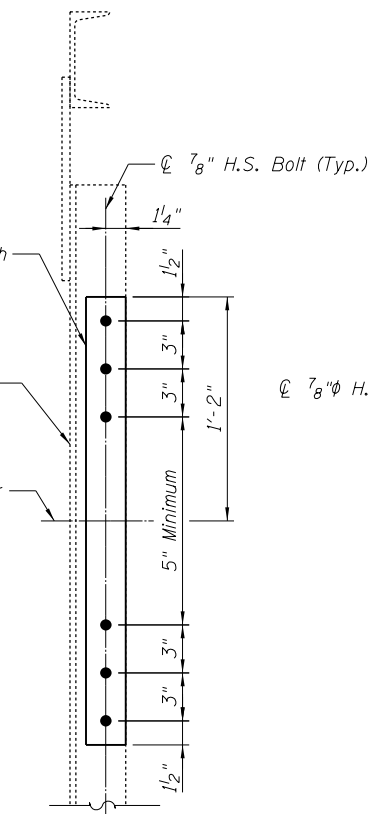
DETAIL 27

Span 10 Lateral Bracing Hanger @ Midspan of Panel 4

2-2 1/2" x 3/8" x 2'-4" PL. One Each Side, Twist to match existing angle

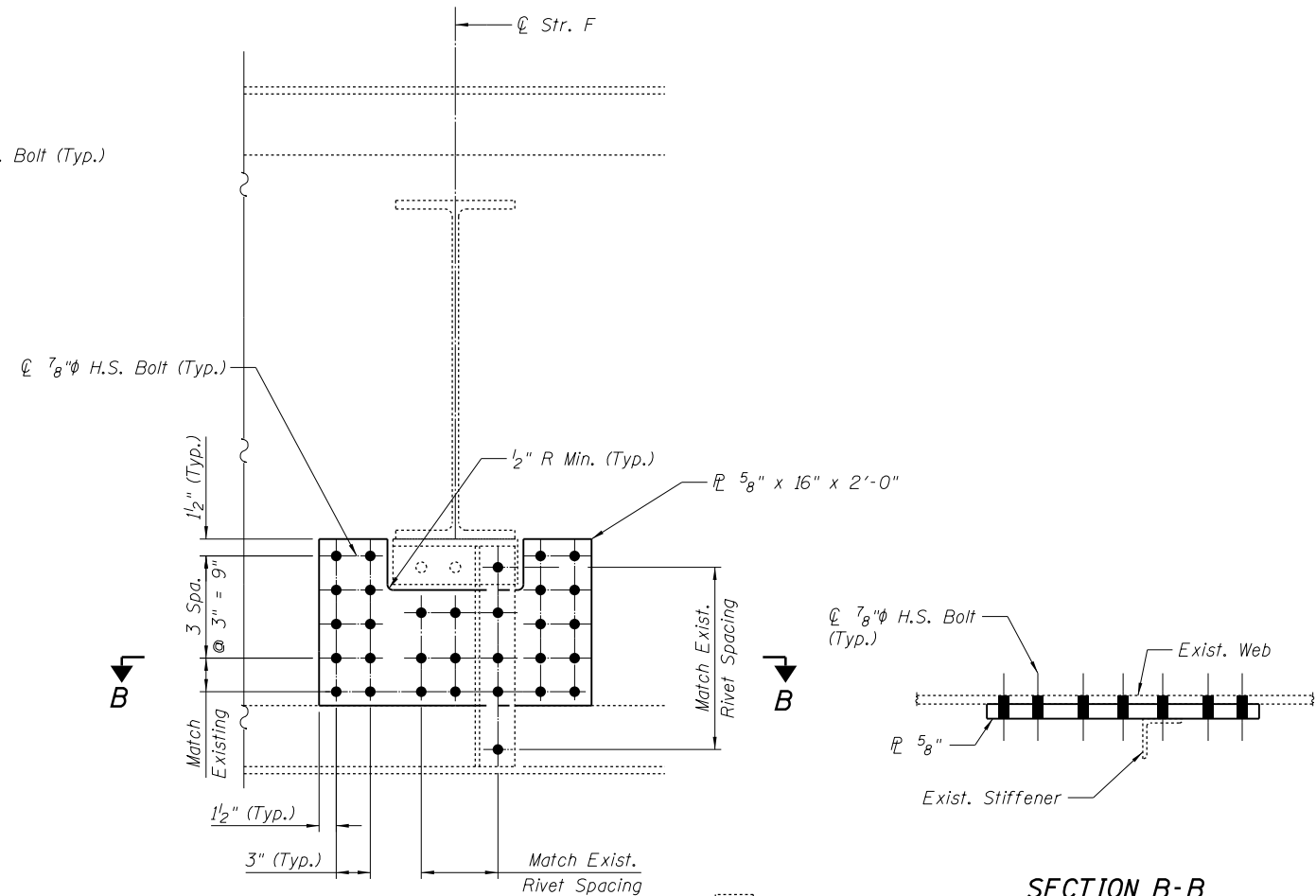
Exist. L 3 1/2" x 3 1/2" x 3/8" Lateral Brace Support

∅ Hole in Hanger



DETAIL 27B

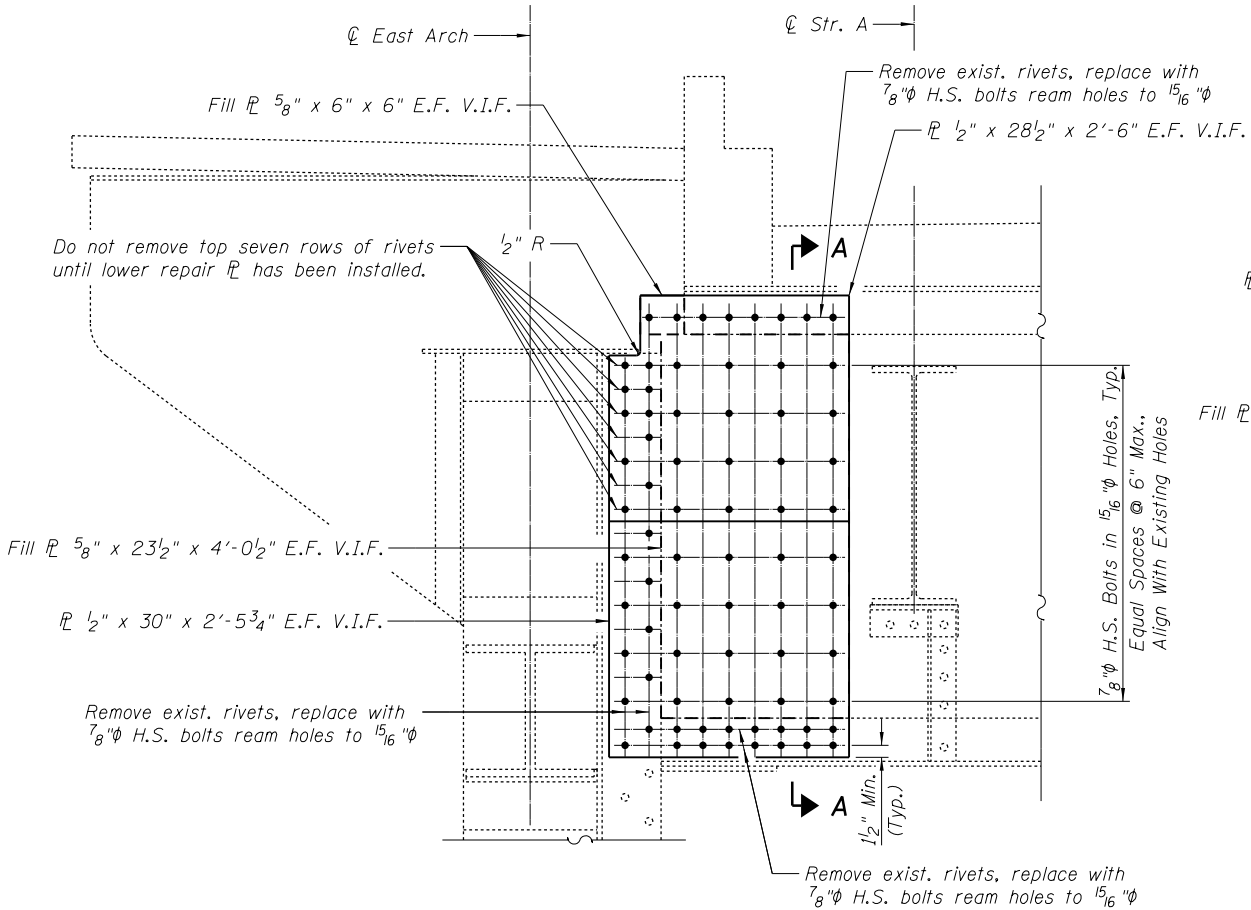
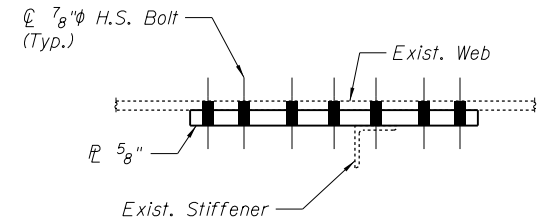
Span 9 Lateral Bracing Hanger @ Midspan of Panel 11 between Stringers C & D



DETAIL 28

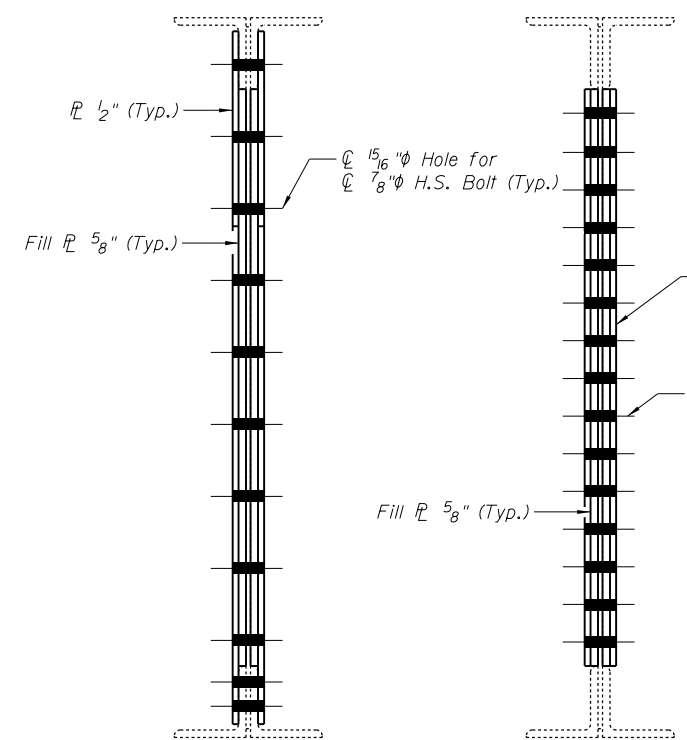
Span 12 Floorbeam 0 @ Str. F (Looking North)

SECTION B-B



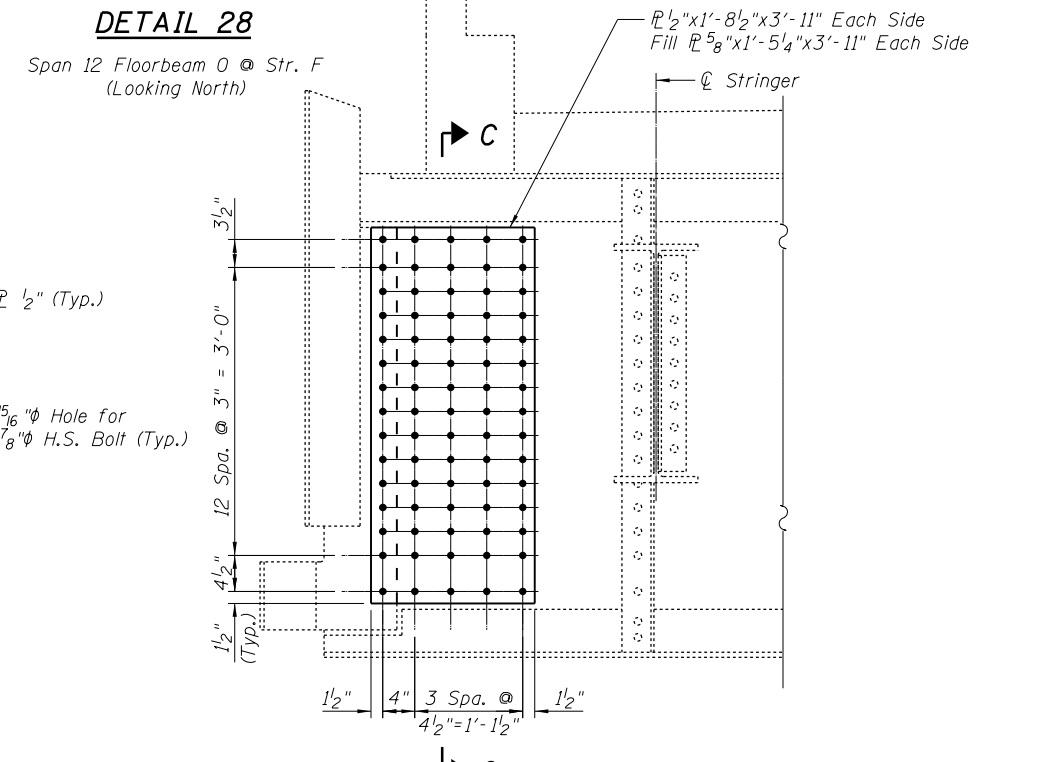
DETAIL 29

Span 9 Floorbeam 11 @ East End (Looking South)
Span 12 Floorbeam 11 @ East End (Looking South)



SECTION A-A

SECTION C-C



DETAIL 29B

Span 10 Floorbeam 1 @ East End (Looking South)
Span 12 Floorbeam 10 @ West End (Looking North)
Span 13 Floorbeam 8 @ West End (Looking North)

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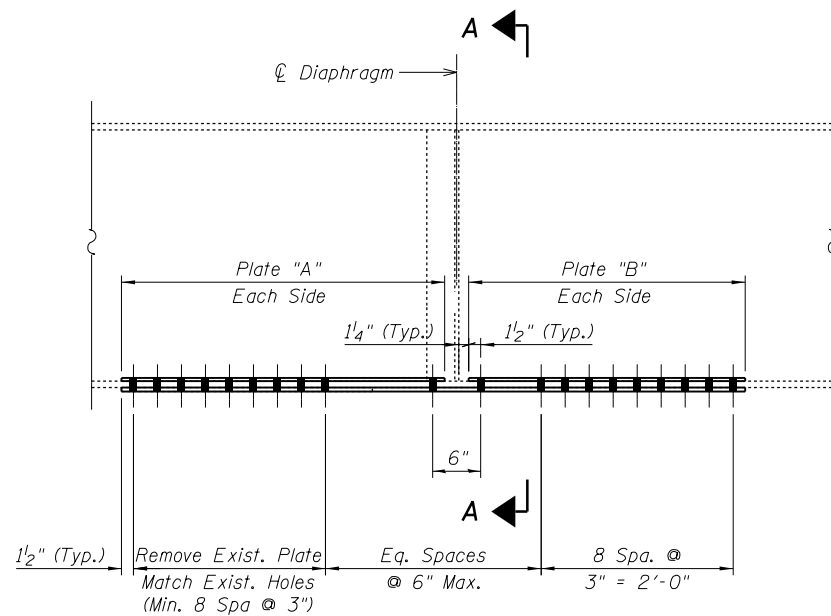
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS, SHEET 8
STRUCTURE NO. 081-9905

SHEET NO. 19 OF 33 SHEETS

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	32
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



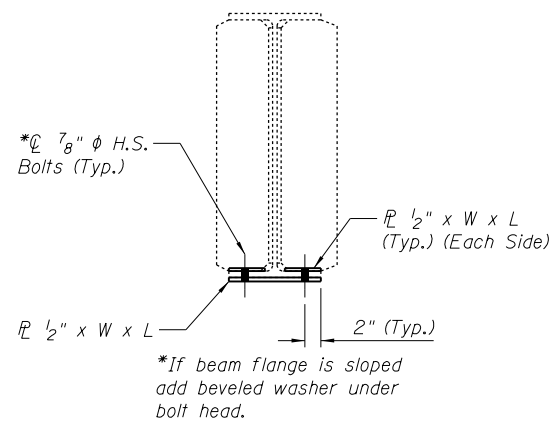
DETAIL 30

Looking West
See Table for Locations and Plate Dimensions

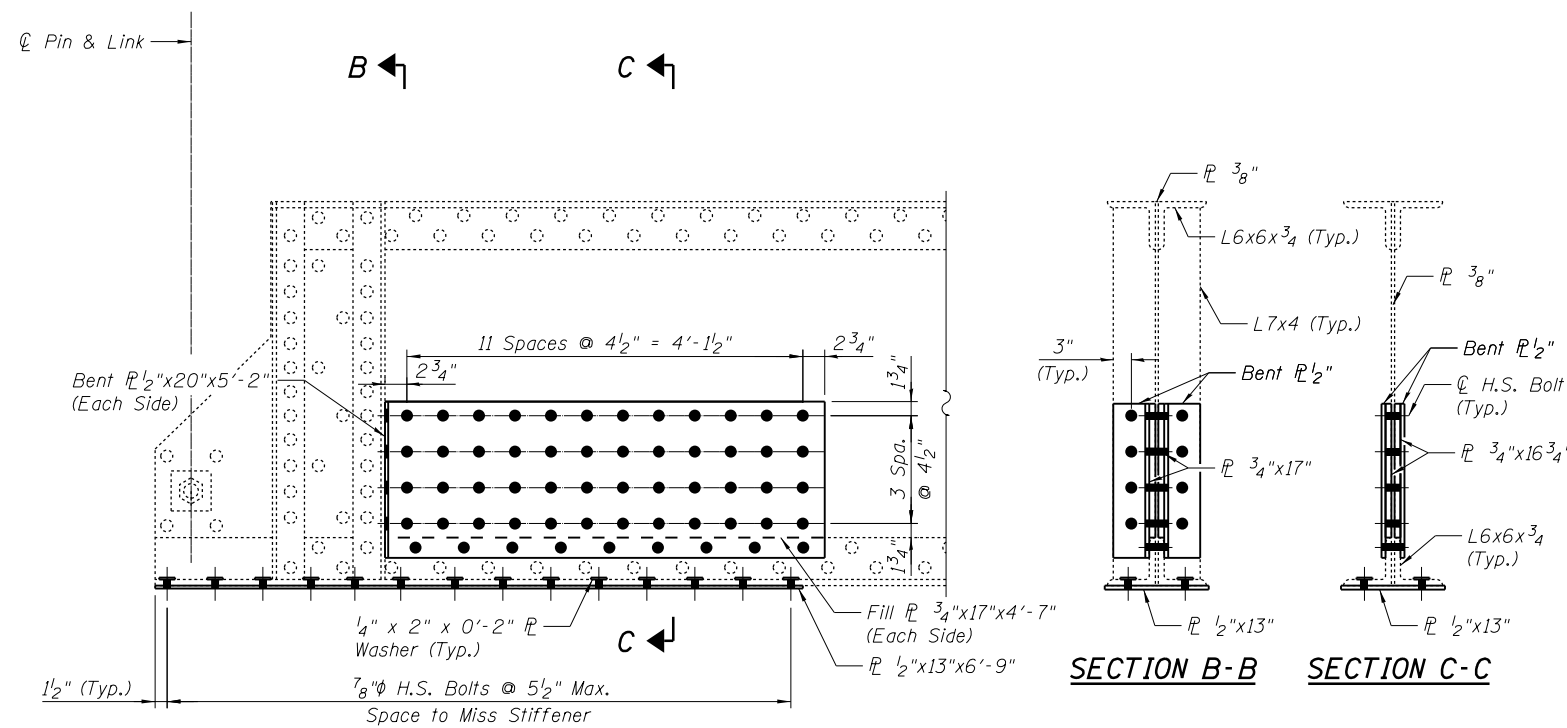
DETAIL 30 - LOCATION AND PLATE SIZE SUMMARY

SPAN	BEAM	REPAIR LOCATION	PLATE "A"	PLATE "B"	BOT. OF BOT. FLG. PLATE SIZE
19	D	4th Dia. from Bent 13	P 1/2" x 4 1/2" x 3'-10 3/4"	P 1/2" x 4 1/2" x 6'-7 3/4"	P 1/2" x 11 1/2" x 10'-9"
19	C	4th Dia. from Bent 13	P 1/2" x 4 1/2" x 3'-10 3/4"	P 1/2" x 4 1/2" x 7'-10 3/4"	P 1/2" x 11 1/2" x 12'-0"

Note: For this table, in referencing diaphragms, the first shall be on the pier or abutment.

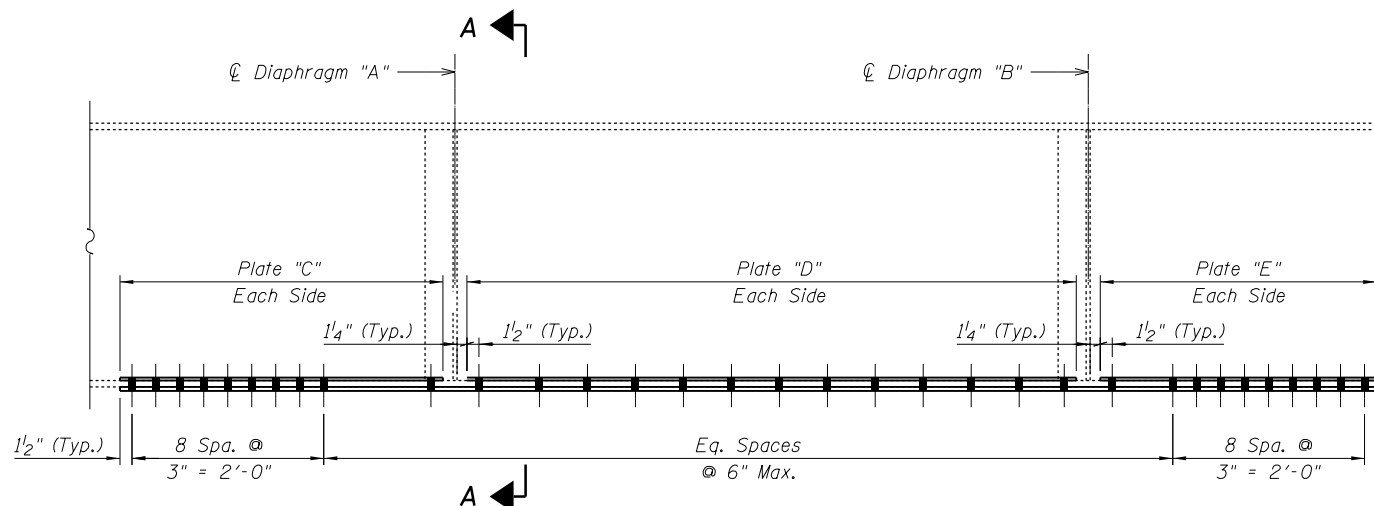


SECTION A-A



DETAIL 32

Span 7, Stringer D



DETAIL 31

See Table for Locations and Plate Dimensions

DETAIL 31 - LOCATION AND PLATE SIZE SUMMARY

SPAN	BEAM	DIAPHRAGM "A"	DIAPHRAGM "A"	PLATE "C"	PLATE "D"	PLATE "E"	BOT. OF BOT. FLG. PLATE SIZE
16	D	3rd Dia. from Bent 10	4th Dia. from Bent 10	P 1/2" x 4 1/2" x 4'-4 3/4"	P 1/2" x 4 1/2" x 17'-9 3/4"	P 1/2" x 4 1/2" x 3'-2 3/4"	P 1/2" x 11 3/4" x 25'-10 1/4"
16	A	2nd Dia. from Bent 10	3rd Dia. from Bent 10	P 1/2" x 6 1/2" x 13'-11 9/16"	P 1/2" x 6 1/2" x 17'-7 1/8"	P 1/2" x 6 1/2" x 9'-0 3/4"	P 1/2" x 16" x 41'-0 1/16"
18	A	3rd Dia. from Bent 12	4th Dia. from Bent 12	P 1/2" x 6 1/2" x 8'-6 3/4"	P 1/2" x 6 1/2" x 17'-7 1/8"	P 1/2" x 6 1/2" x 6'-9 1/8"	P 1/2" x 16" x 33'-4"
23	C	2nd Dia. from Bent 17	3rd Dia. from Bent 17	P 1/2" x 4 1/2" x 2'-3"	P 1/2" x 4 1/2" x 17'-1 1/8"	P 1/2" x 4 1/2" x 2'-4 3/4"	P 1/2" x 11 1/2" x 22'-1 1/8"

Note: For this table, in referencing diaphragms, the first shall be on the pier or abutment.

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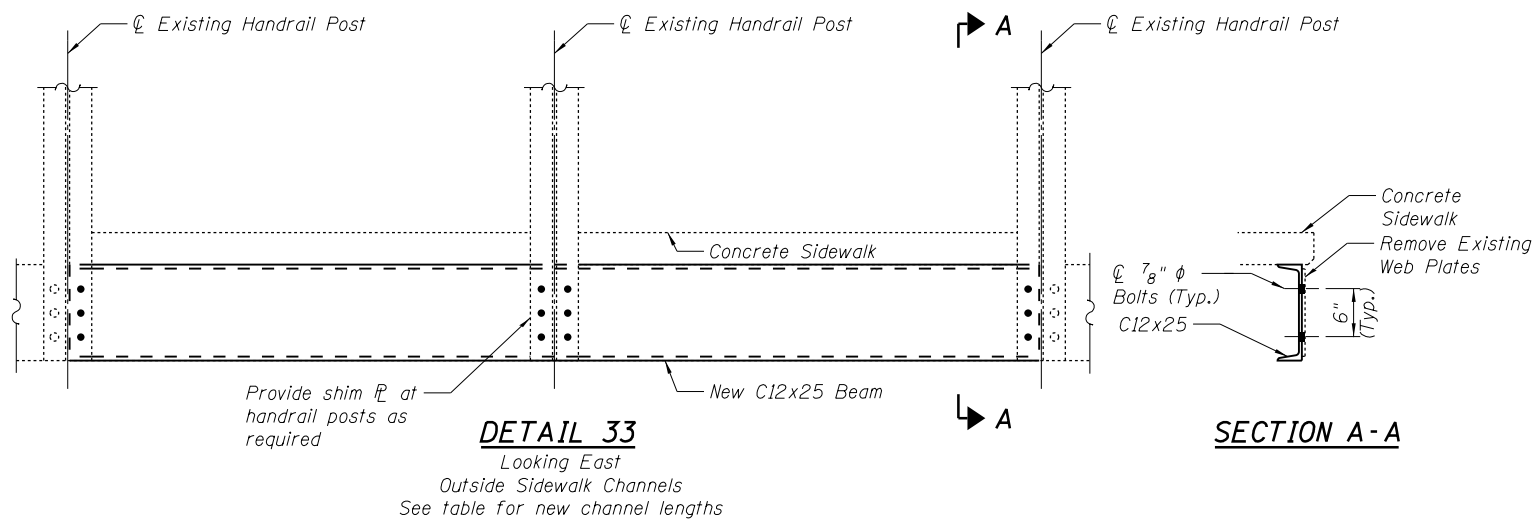
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REVISOR -
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REVISOR -
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CHECKED - SB
REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS, SHEET 9
STRUCTURE NO. 081-9905

SHEET NO. 20 OF 33 SHEETS

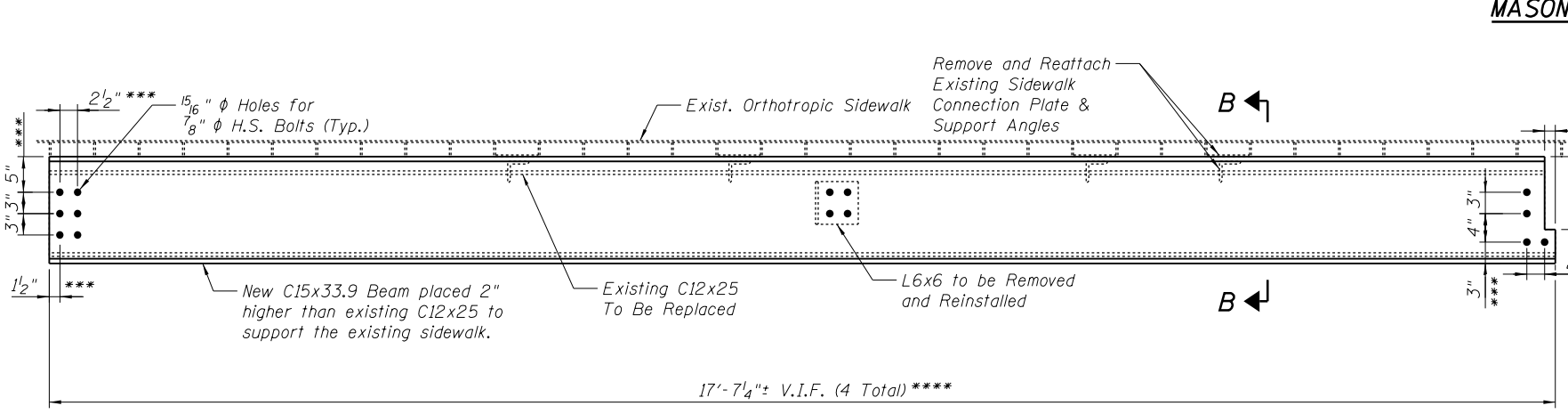
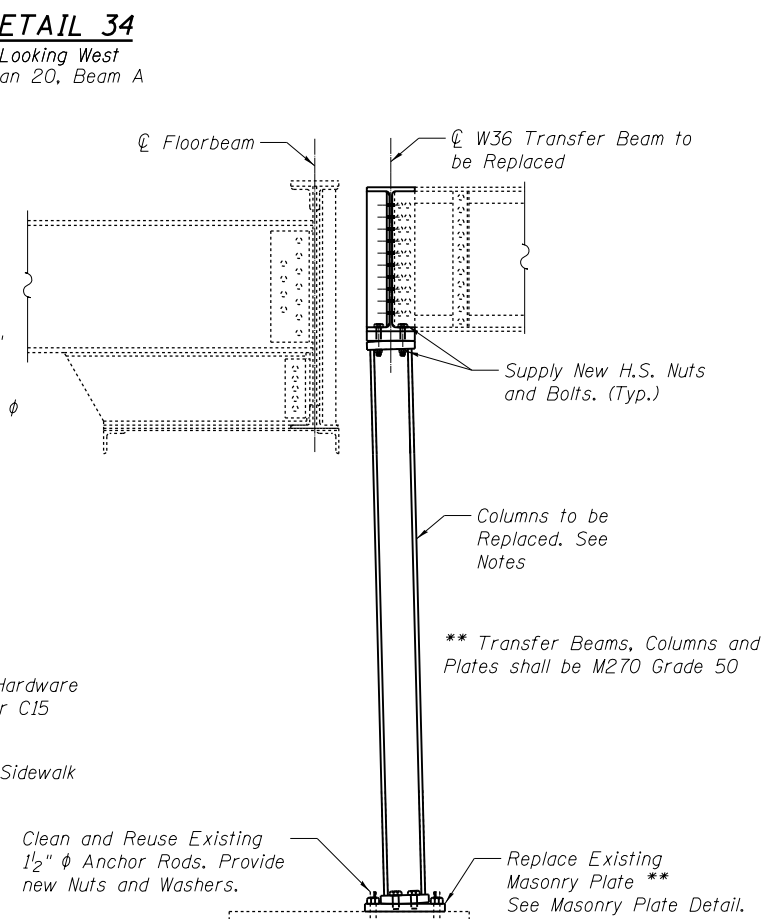
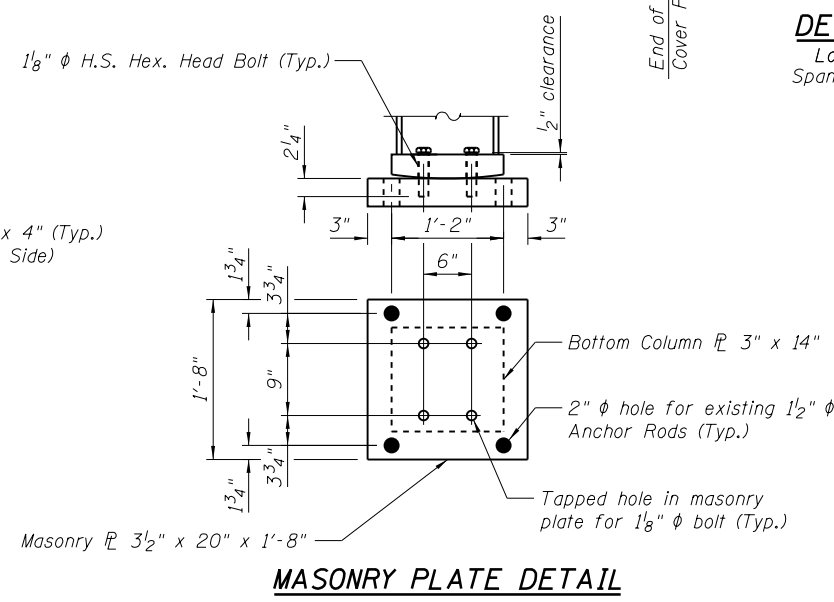
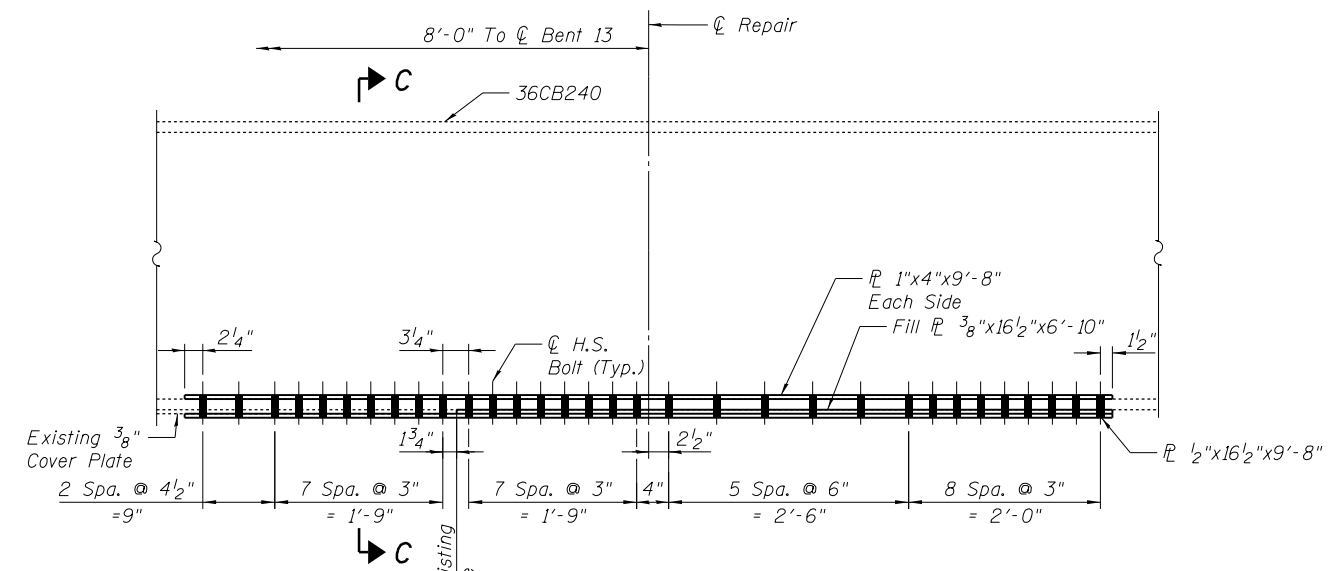
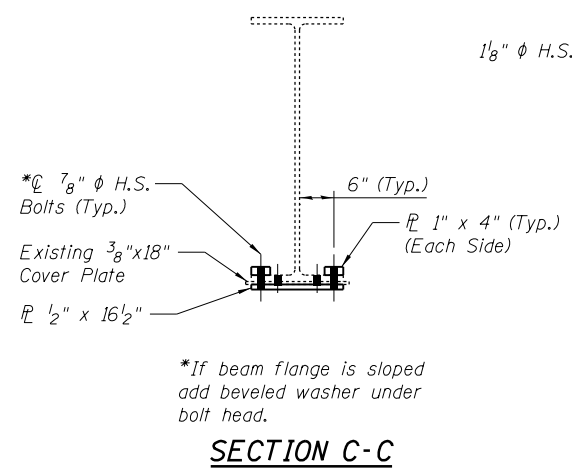
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	33
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



DETAIL 33 - LOCATION AND PLATE SIZE SUMMARY

SPAN	LOCATION	CHANNEL LENGTH
17	West Side	16'-0 1/4"
18	West Side	18'-6"
19	West Side	20'-11 1/2"
20	West Side	20'-10 1/2"
21	West Side	19'-11 1/2"

Notes:
New Hole Diameter to be 1 5/16", Spacing to Match Existing. Contractor to Verify All Dimensions Prior to Ordering Steel. Temporary support of sidewalk and shim plates are included in Furnishing and Erecting Structural Steel pay item.



DETAIL 36 - DEAD LOAD REACTIONS

PIER	DEAD LOAD REACTIONS (KIPS)					
	A	B	C	D	E	F
1	40	24	19	19	18	24
6	55	38	32	32	38	55

Notes:
Contractor shall temporarily support beams while transfer beam is being replaced. Dead load reactions provided for temporary shoring and cribbing. Contractor to add construction live loads. All work associated with temporarily supporting beams shall be paid for as Temporary Shoring and Cribbing, Type I. See Special Provisions.

See Sheet 33 for Transfer Beam and Column details.

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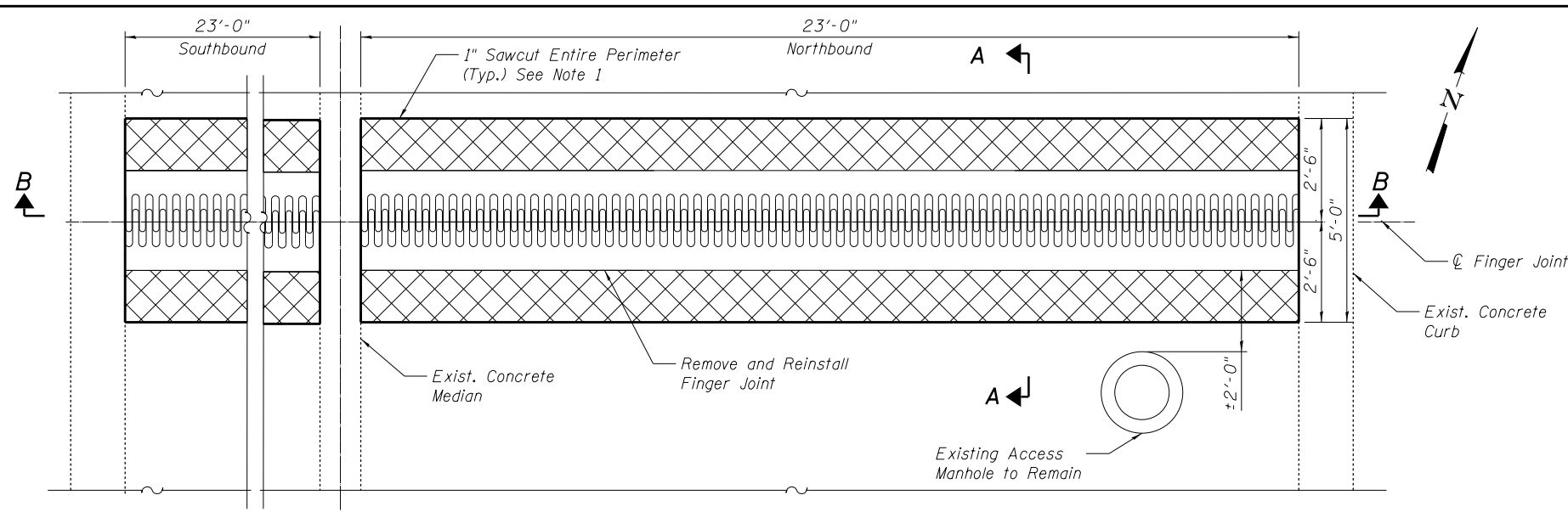
STV 100 Years

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

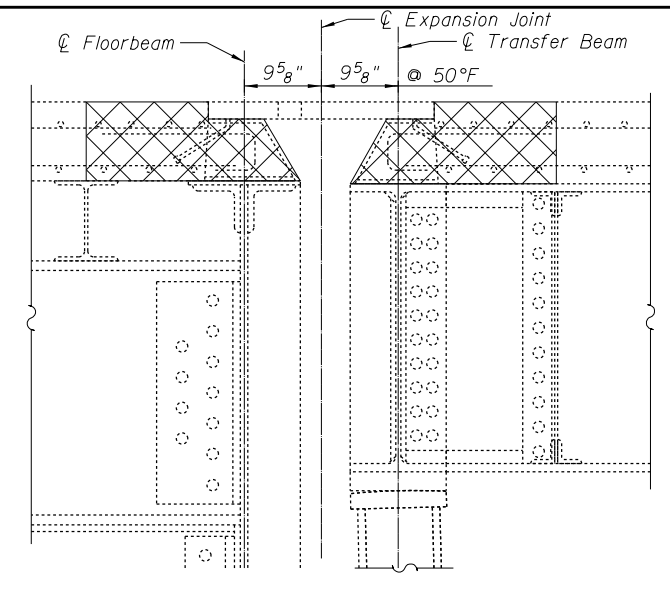
**STRUCTURAL STEEL REPAIR DETAILS, SHEET 10
STRUCTURE NO. 081-9905
SHEET NO. 21 OF 33 SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT				



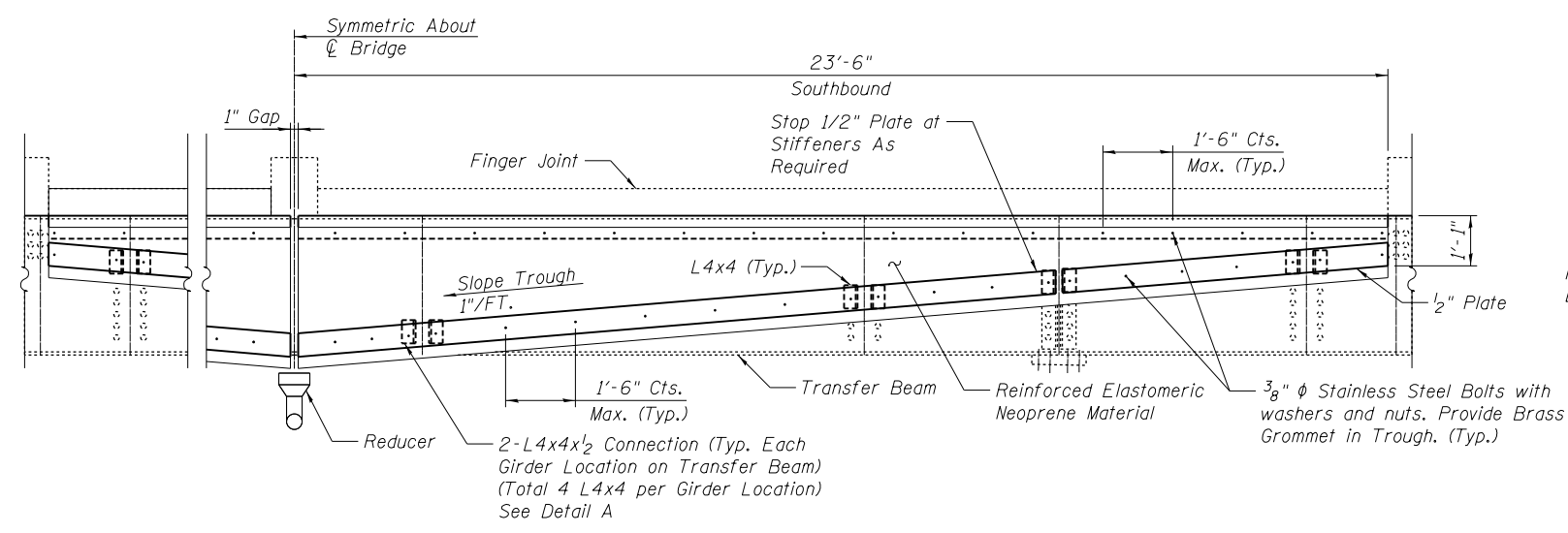
TYPICAL FINGER JOINT PLAN

Finger Joint repair at Pier 1 shown, Pier 6 similar.

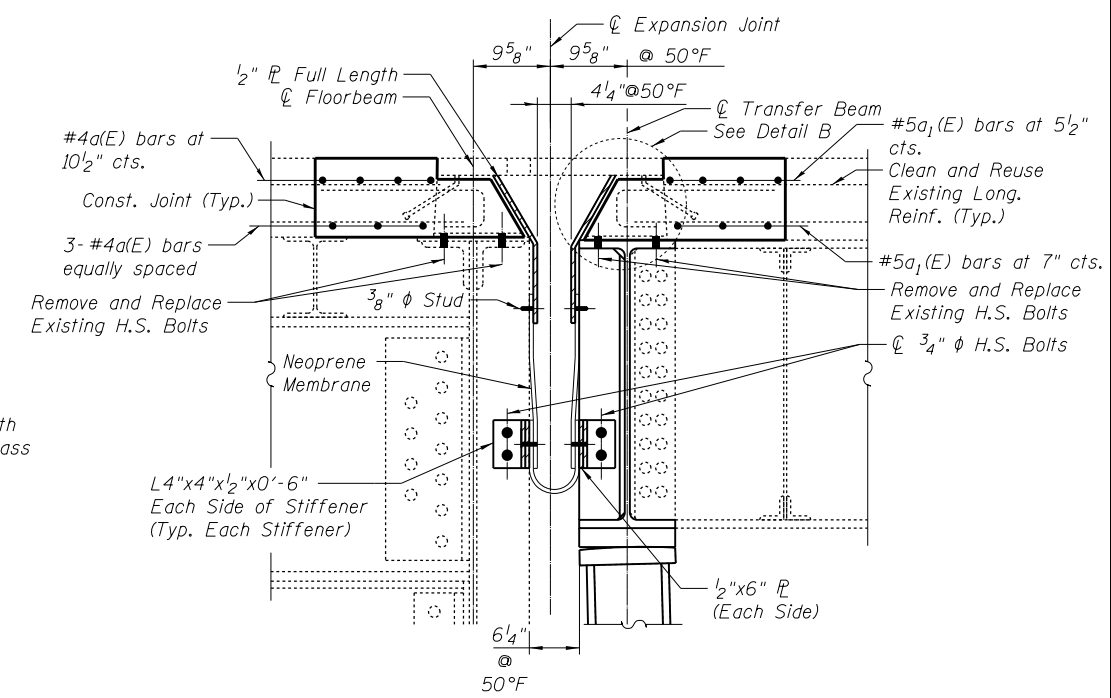


SECTION A-A

(Existing Showing Removal)



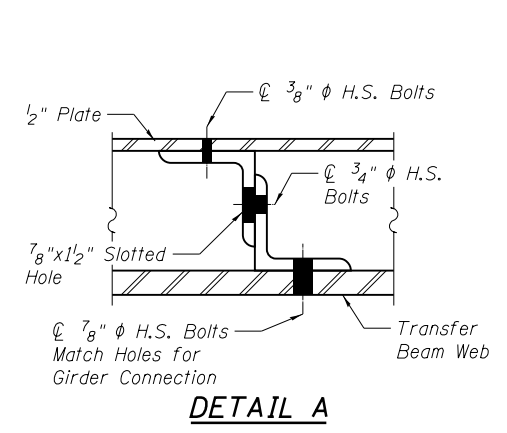
SECTION B-B



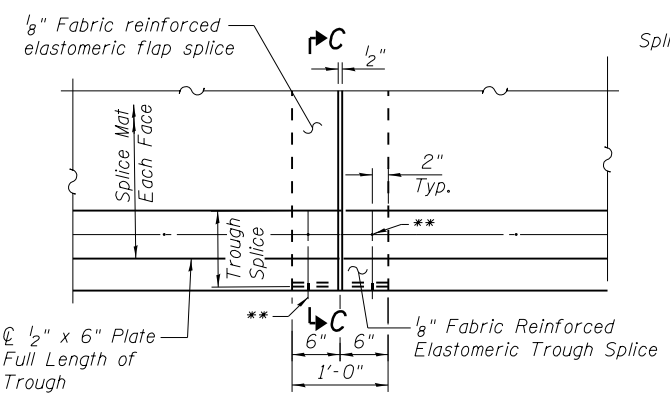
SECTION A-A

(Proposed)

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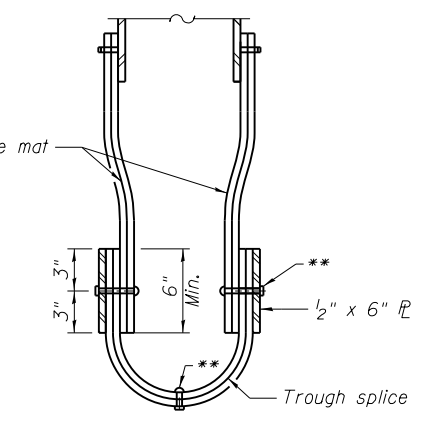


DETAIL A

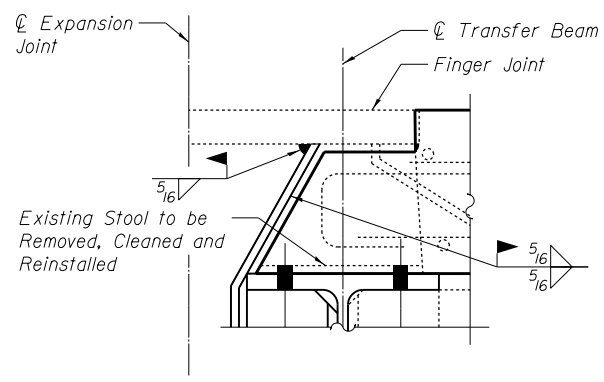


TROUGH SPLICE DETAIL

(To be used as necessary)



SECTION C-C



DETAIL B

Transfer Beam Location Shown. Floorbeam Location Similar

Bar	No.	Size	Length	Shape
a(E)	28	#4	25'-10"	—
a1(E)	28	#5	25'-10"	—
Reinforcement Bars, Epoxy Coated			Lbs.	1,240
Concrete Superstructure			Cu. Yds.	10.0
Concrete Removal			Cu. Yds.	10.0

LEGEND

▨ - Limits of Concrete Removal

Note:
1. Cost of Sawcut is included with Concrete Removal item.



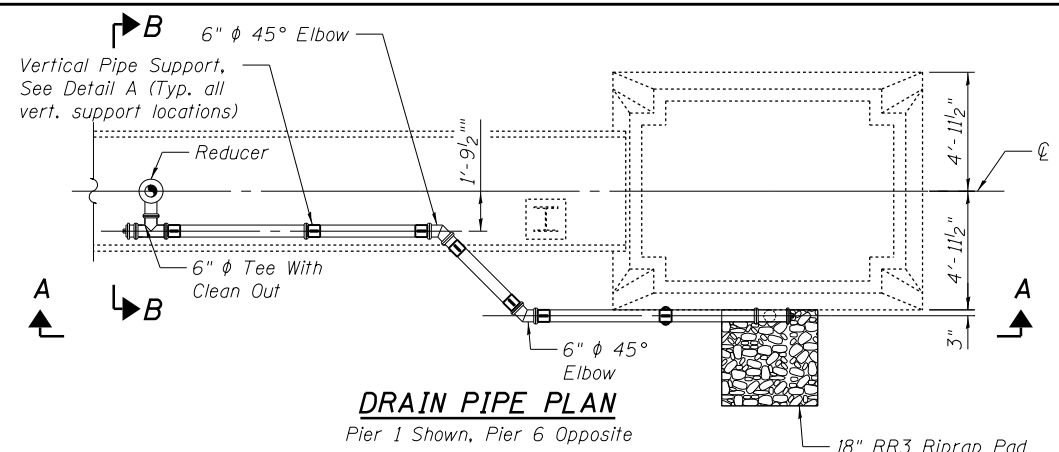
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

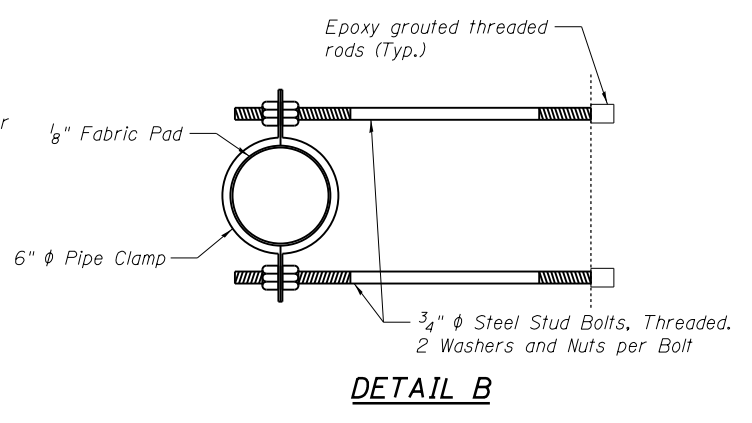
FINGER JOINT RETROFIT DETAILS
STRUCTURE NO. 081-9905

SHEET NO. 22 OF 33 SHEETS

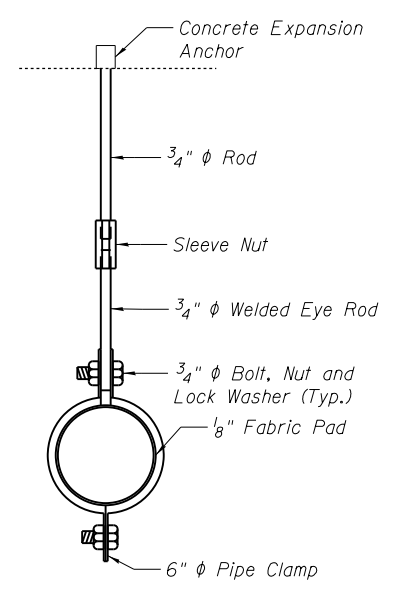
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308	(3BRM)	ROCK ISLAND	47	35
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT				



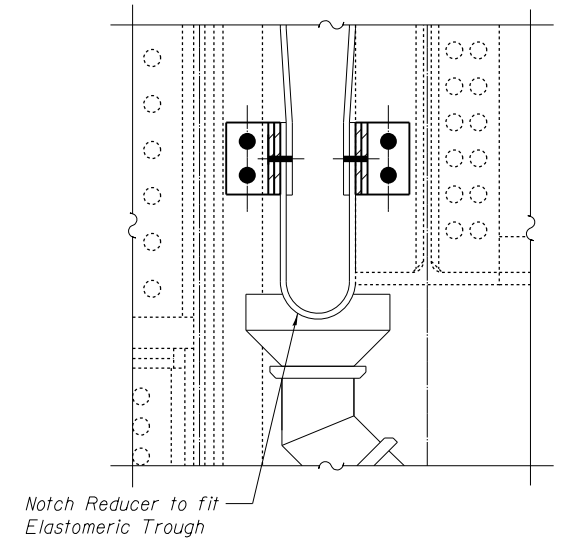
DRAIN PIPE PLAN
Pier 1 Shown, Pier 6 Opposite



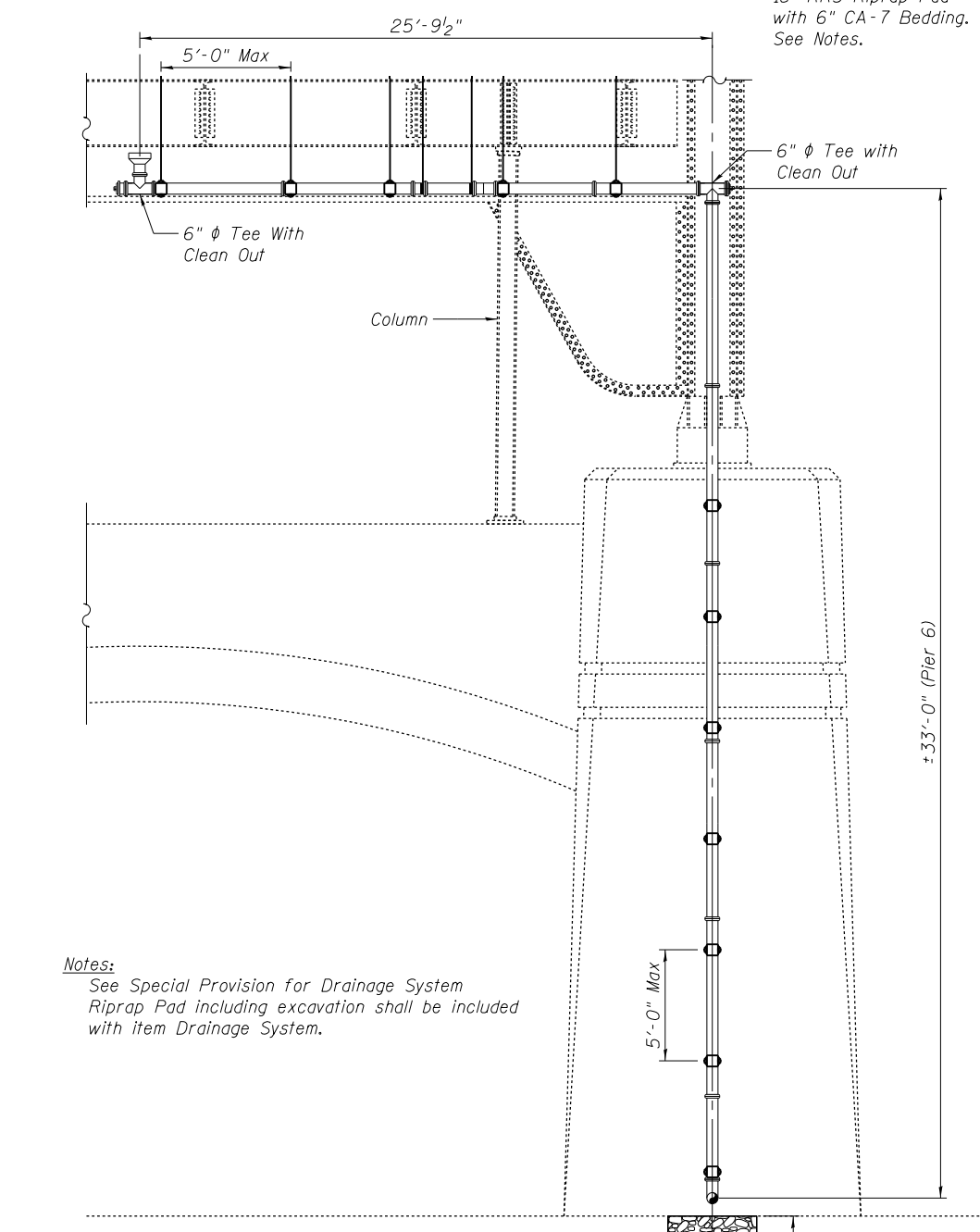
DETAIL B



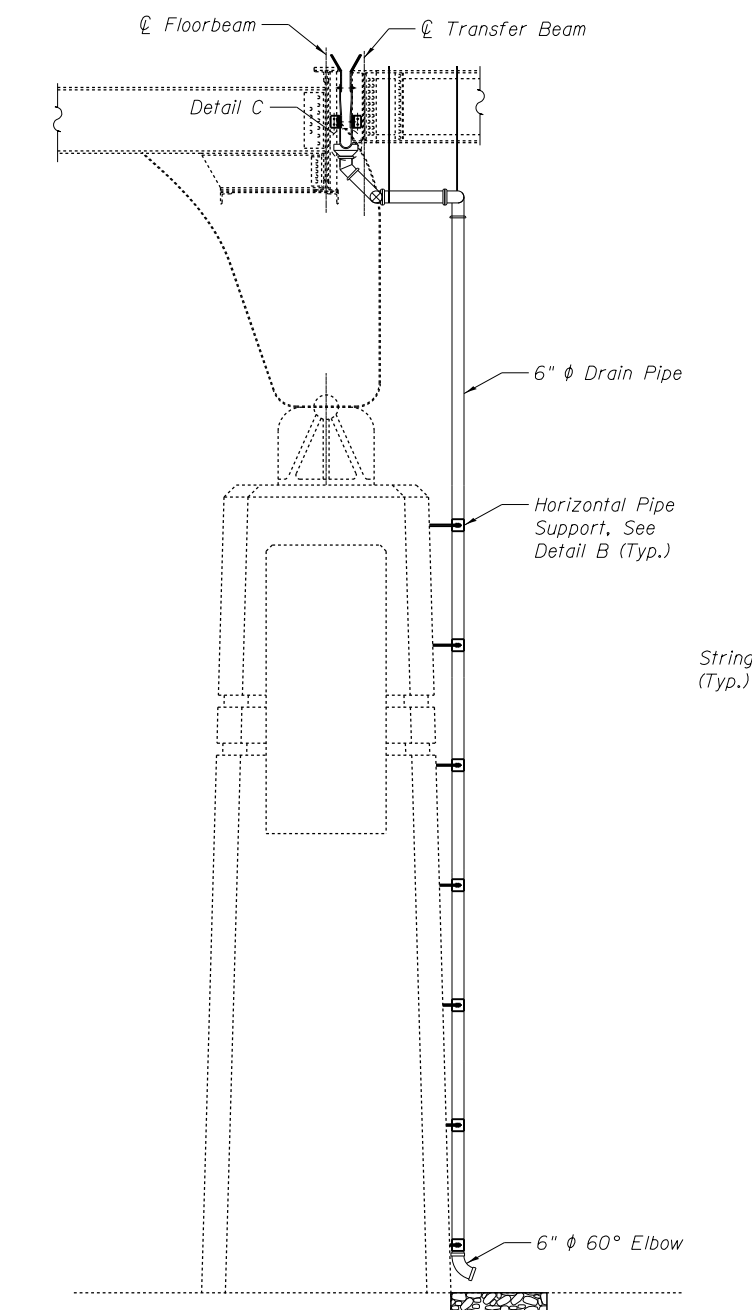
DETAIL A



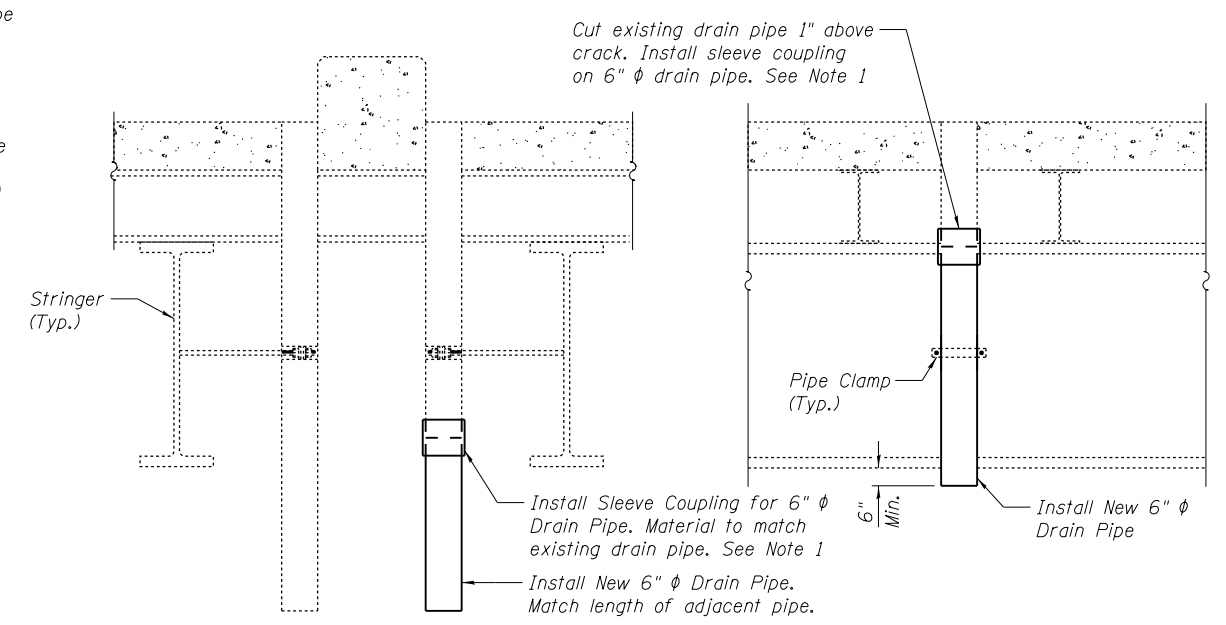
DETAIL C



VIEW A-A
Pier 1 - Looking North
Pier 6 - Looking South



SECTION B-B
Pier 1 - Looking East
Pier 6 - Looking West



DECK DRAIN REPAIR DETAIL
Span 12 Floorbeam 4, between Stringers C & D

DECK DRAIN REPAIR DETAIL
Span 11 2nd Drain South of Floorbeam 6

Notes:
1. Sleeve Coupling to be bonded to drain pipe with adhesive in accordance with manufacturers recommendations. Material to match drain pipe.
2. Costs for Deck Drain Repairs shall be included with item Drainage System.

Notes:
See Special Provision for Drainage System
Riprap Pad including excavation shall be included with item Drainage System.

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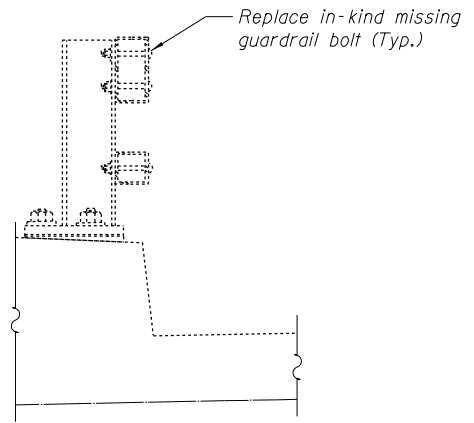
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PLOT DATE = 1/24/2014	CHECKED - SB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SYSTEM DETAILS
STRUCTURE NO. 081-9905**

SHEET NO. 23 OF 33 SHEETS

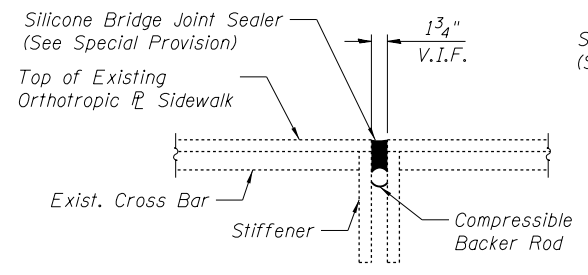
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



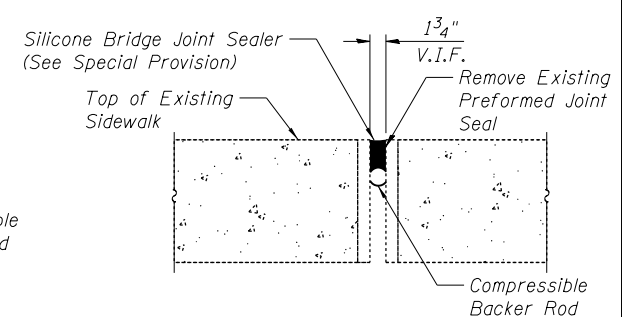
TYPICAL SECTION THROUGH GUARDRAIL
See Table for Locations

GUARDRAIL BOLT REPLACEMENT LOCATION SUMMARY

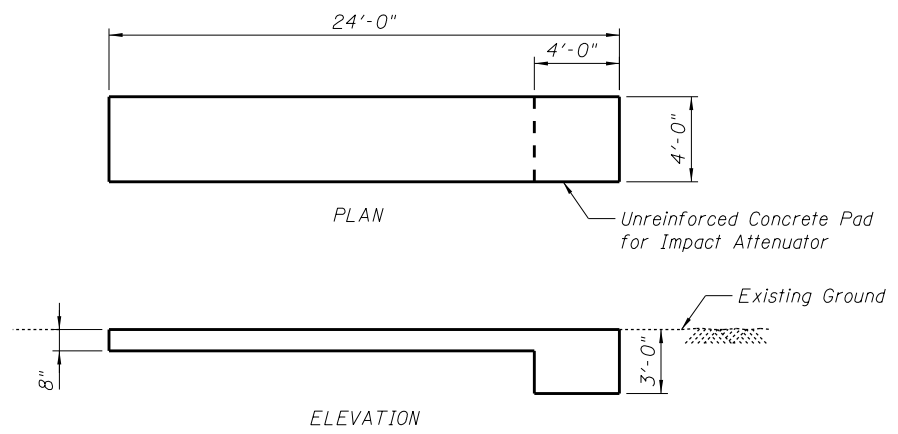
SPAN	SIDE	LOCATION	BOLTS MISSING	TOTAL/SPAN
9	East	P.P. 7 - P.P. 6	2	5
9	West	P.P. 7 - P.P. 6	3	
10	West	P.P. 8 - P.P. 7	1	11
10	East	P.P. 8 - P.P. 7	1	
10	West	P.P. 7 - P.P. 6	1	
10	East	P.P. 6 - P.P. 5	2	
10	East	P.P. 4 - P.P. 3	2	
10	East	P.P. 4 - P.P. 3	2	
11	East	P.P. 13 - P.P. 12	1	7
11	East	P.P. 12 - P.P. 11	1	
11	East	P.P. 11 - P.P. 10	1	
11	East	P.P. 3 - P.P. 2	1	
11	West	10' N OF B6	1	
11	West	3' S OF B6	1	
11	West	3' N OF JT.	1	8
12	West	P.P. 11 - P.P. 10	3	
12	West	P.P. 3 - P.P. 2	3	
12	West	13' S OF B2	1	
12	West	P.P. 2 - P.P. 1	1	
13	West	P.P. 8 - P.P. 7	2	
14	West	25' S of B8	2	2
15	East	6' S of B9	1	1
17	East	6' N of B10	1	1
19	West	6' N of B12	2	8
19	West	9' N of B12	2	
19	East	24' N of B12	1	
19	East	40' N of B12	1	
19	East	20' S of B13	2	
21	West	3' N of B14	1	
21	East	9' N of B14	2	
24	West	5' S OF B18	1	
TOTAL			49	



SIDEWALK PANEL JOINT REPAIR DETAIL
Span 10,11 West Sidewalk Joint @ Pier 3

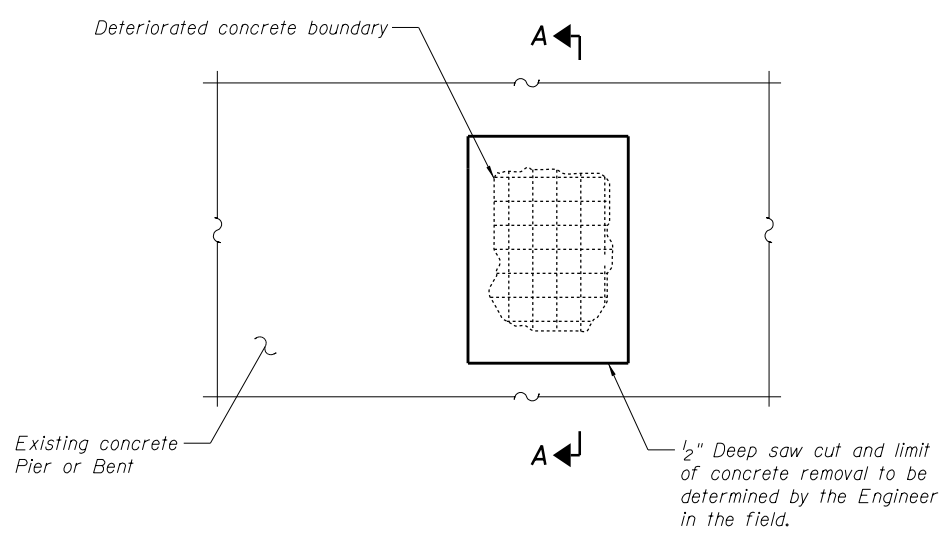


SIDEWALK JOINT REPAIR DETAIL
Span 1, East Sidewalk Joint @ S. Abutment



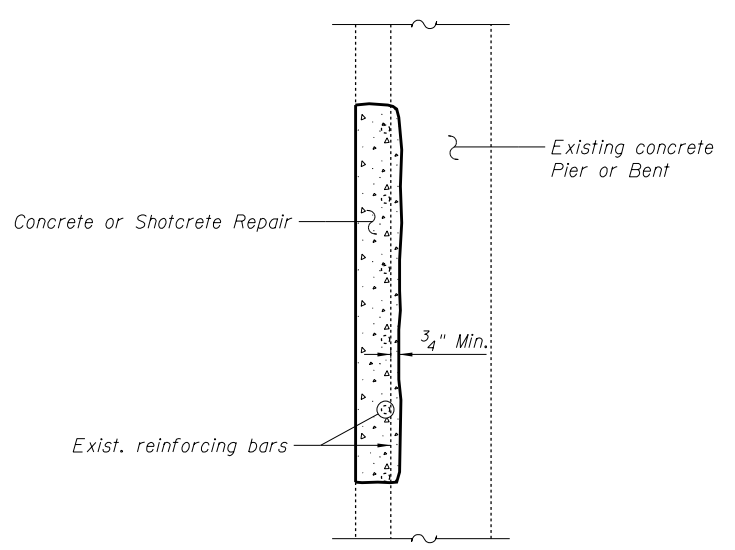
CONCRETE PAD DETAIL

Notes:
Concrete Pad per Manufacturer Recommendation
fc' = 4,000 psi



STRUCTURAL REPAIR OF CONCRETE DETAIL

(Depth Equal To or Less Than 5 in.)
See Table for Locations



SECTION A-A

STRUCTURAL REPAIR OF CONCRETE LOCATION SUMMARY

SPAN	MEMBER	LOCATION	AREA (SQ. FT.)
9,10	Pier 2	Wall	31
		Column	12
10,11	Pier 3	Wall	12
		Column	30
12,13	Pier 5	Cap	6
		Wall	30
		Column	10
13,14	Pier 6	Cap	62
		Column	80
		Wall	200
19,20	Bent 13	Cap	40
21,22	Bent 15	Cap	25
22,23	Bent 16	Wall	25
		Cap	25

Paid for as: Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)

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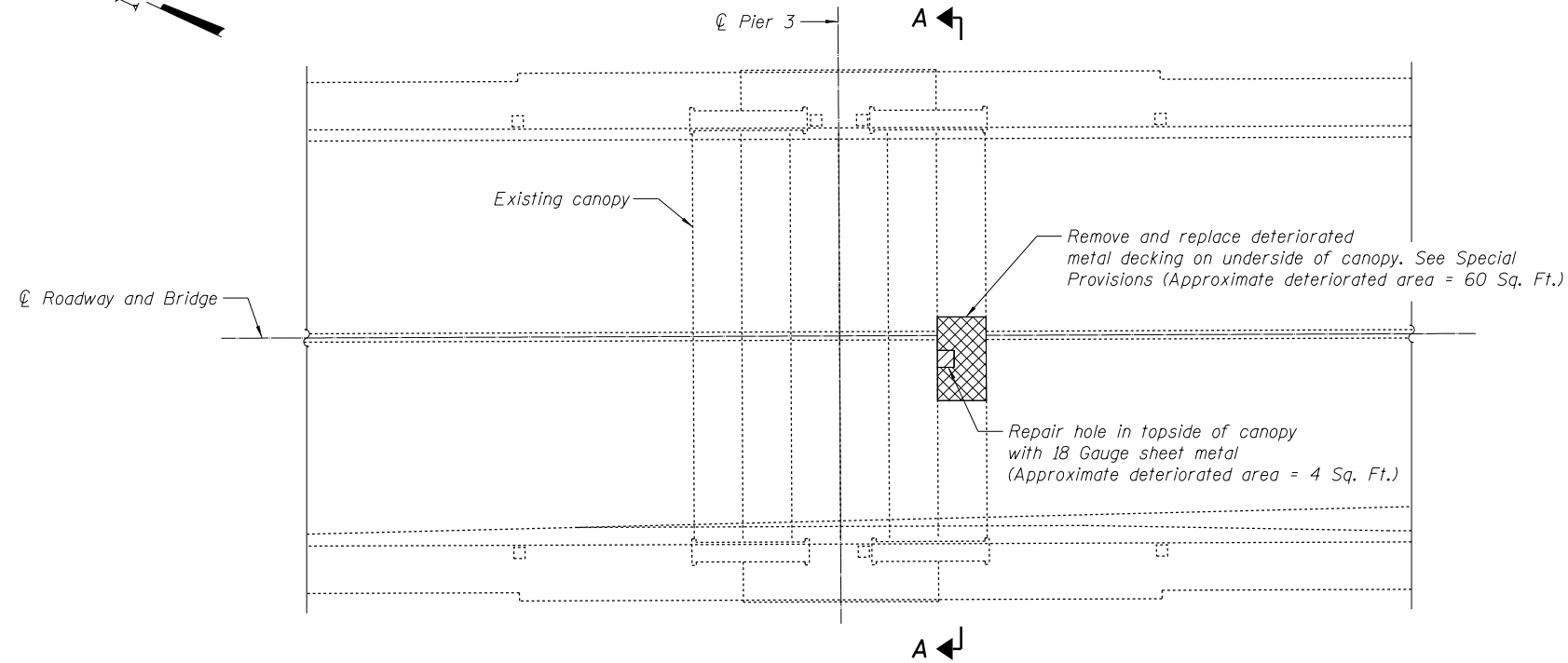
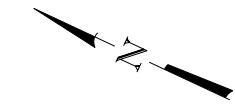
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS REPAIR DETAILS
STRUCTURE NO. 081-9905

SHEET NO. 24 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	37
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT				

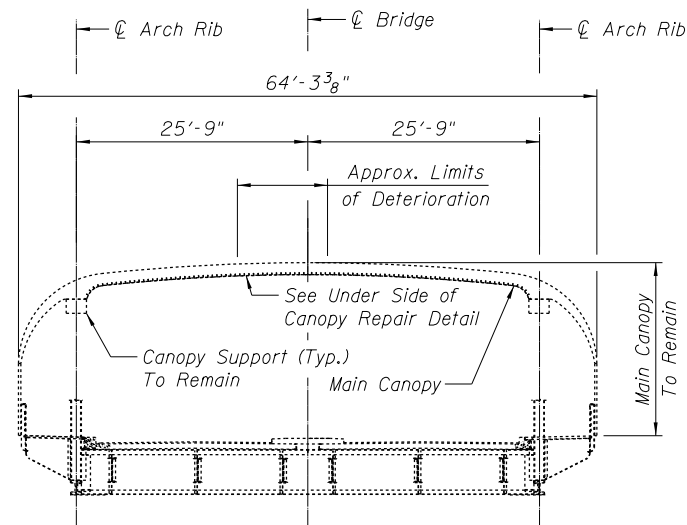


LEGEND

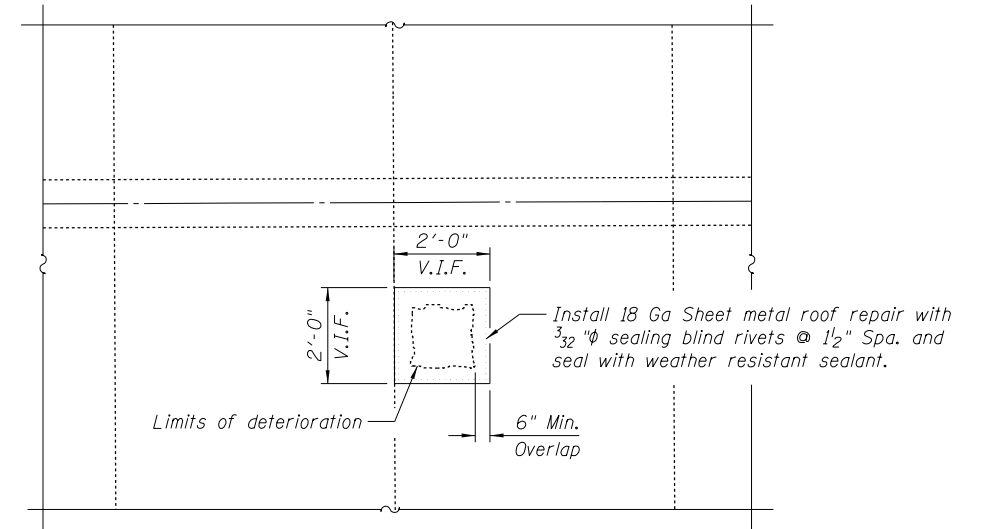
- Repair location on topside of canopy
- Repair location on underside of canopy

CANOPY PLAN

Span 10, 11

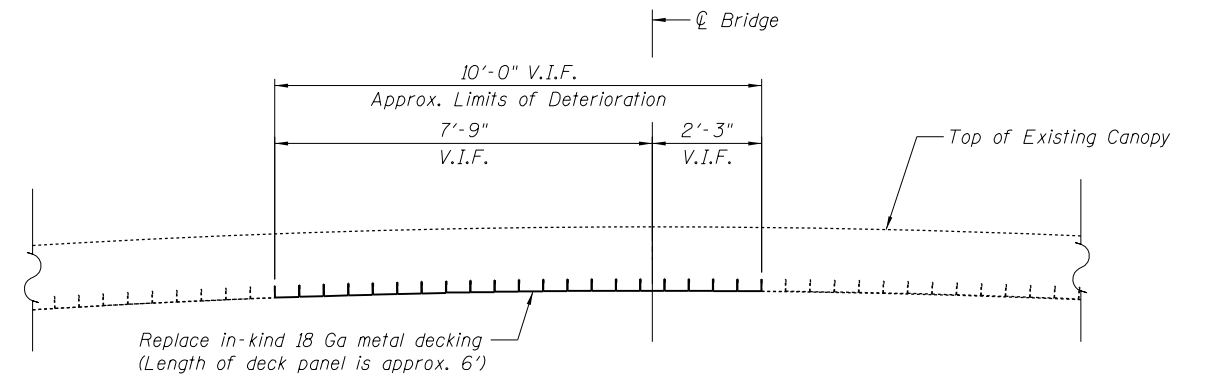


SECTION A-A



TOP SIDE OF CANOPY REPAIR DETAIL

(Plan View)



UNDER SIDE OF CANOPY REPAIR DETAIL

(Section View)

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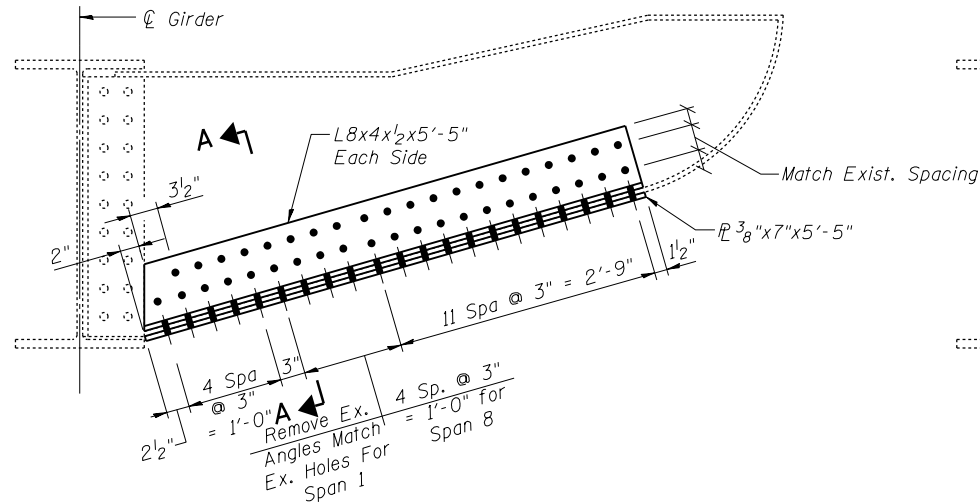
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

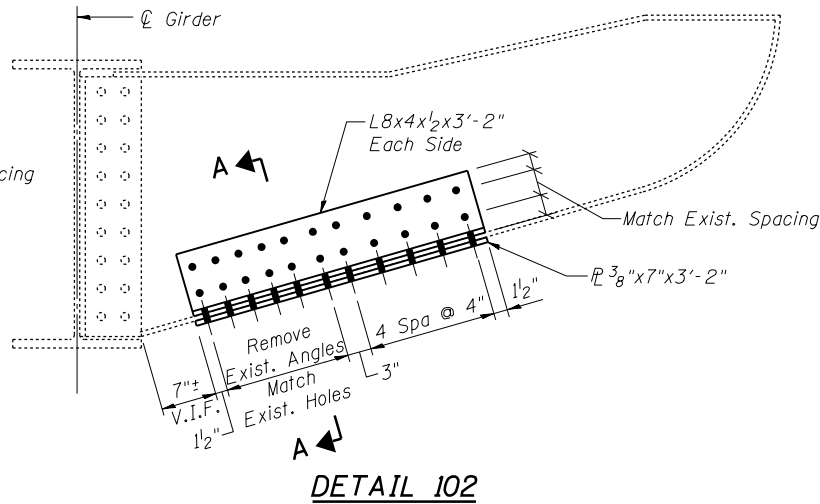
**CANOPY REPAIR DETAILS
STRUCTURE NO. 081-9905**

SHEET NO. 25 OF 33 SHEETS

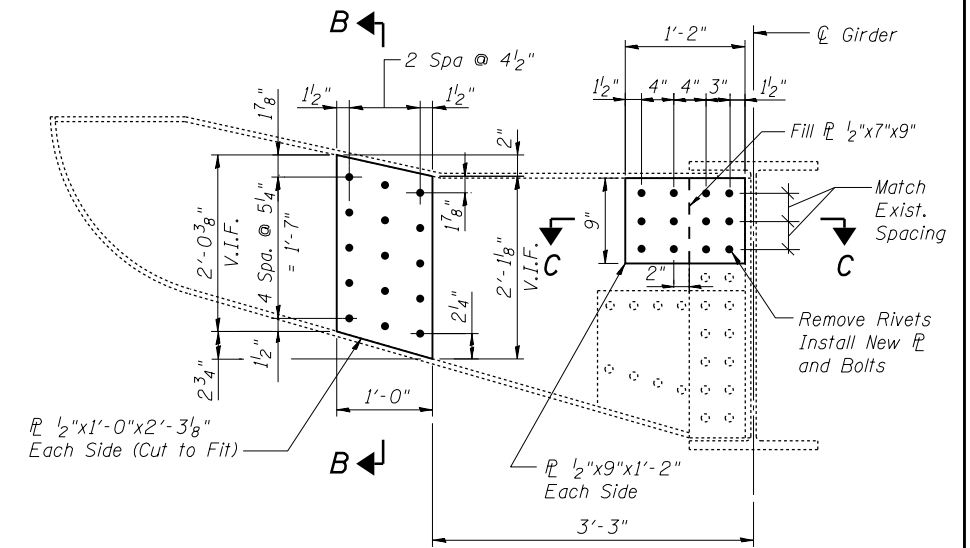
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	38
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				



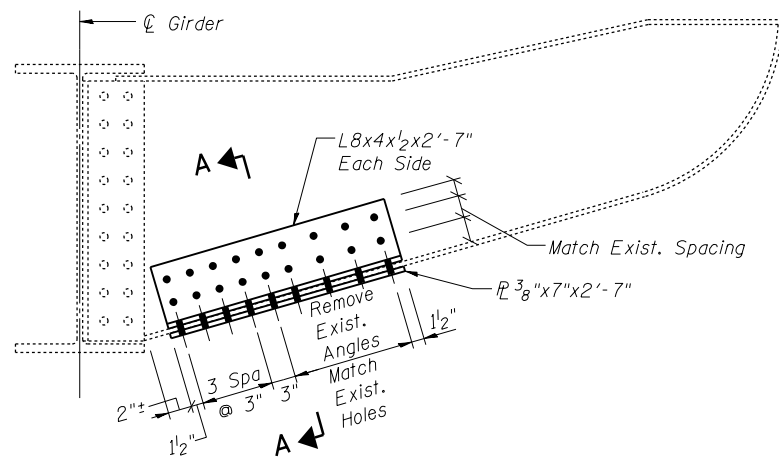
DETAIL 100
Span 1, East Side, Third Bracket from South Abutment (Looking North)
Span 8, East Side, Second Bracket from Bent 7 (Looking North)



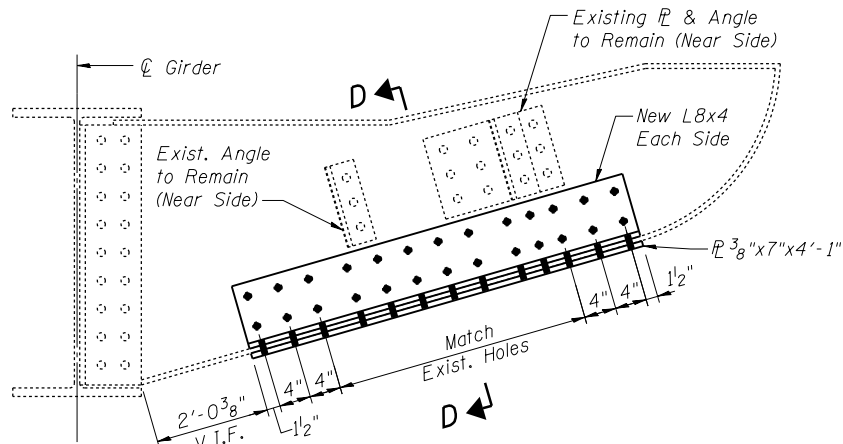
DETAIL 102
Span 4, 5 at East Bracket at Bent 4 (Looking North)



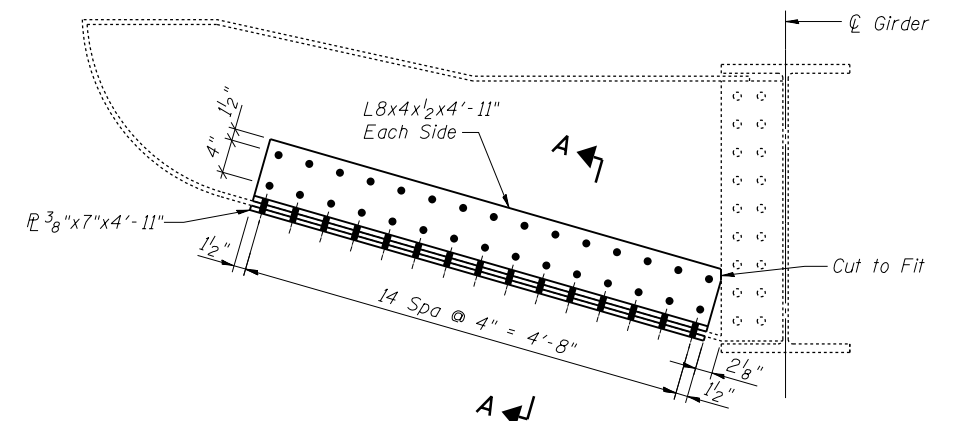
DETAIL 104
Span 7, East Side, 4th Bracket from Bent 6 (Looking South)



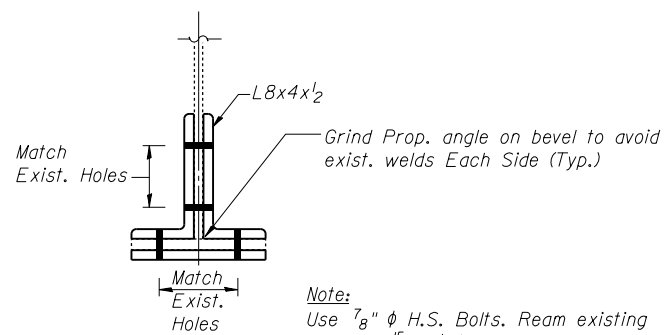
DETAIL 101
Span 4, East Side, First Bracket from North of Bent 3 (Looking North)



DETAIL 103
Span 7, East Side, 5th Bracket from Bent 6 (Looking North)

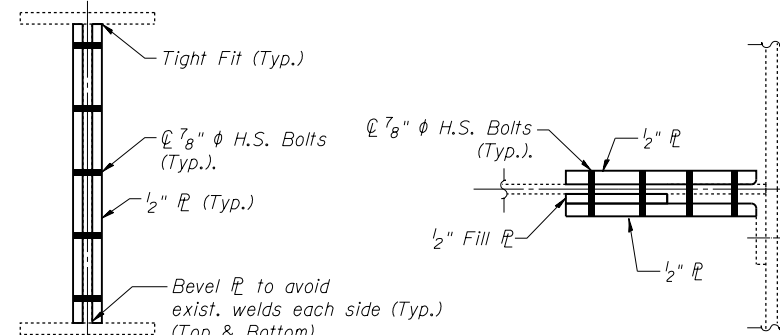


DETAIL 105
Span 14, East Side at Panel 6, First Bracket at Pier 6 (Looking South)
Span 6, 7, Bent 6 (Looking North)

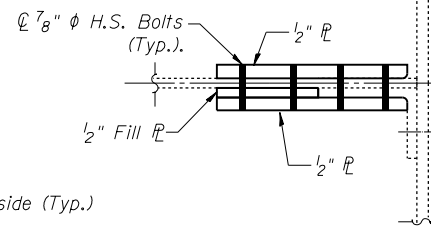


SECTION A-A

Note:
Use 7/8" φ H.S. Bolts. Ream existing holes to 5/16" φ (unless otherwise noted). Verify bracket dimensions in field.

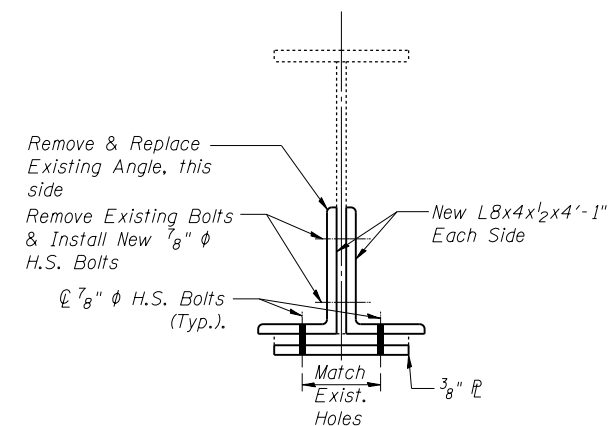


SECTION B-B



SECTION C-C

Detail 107 Opposite Hand

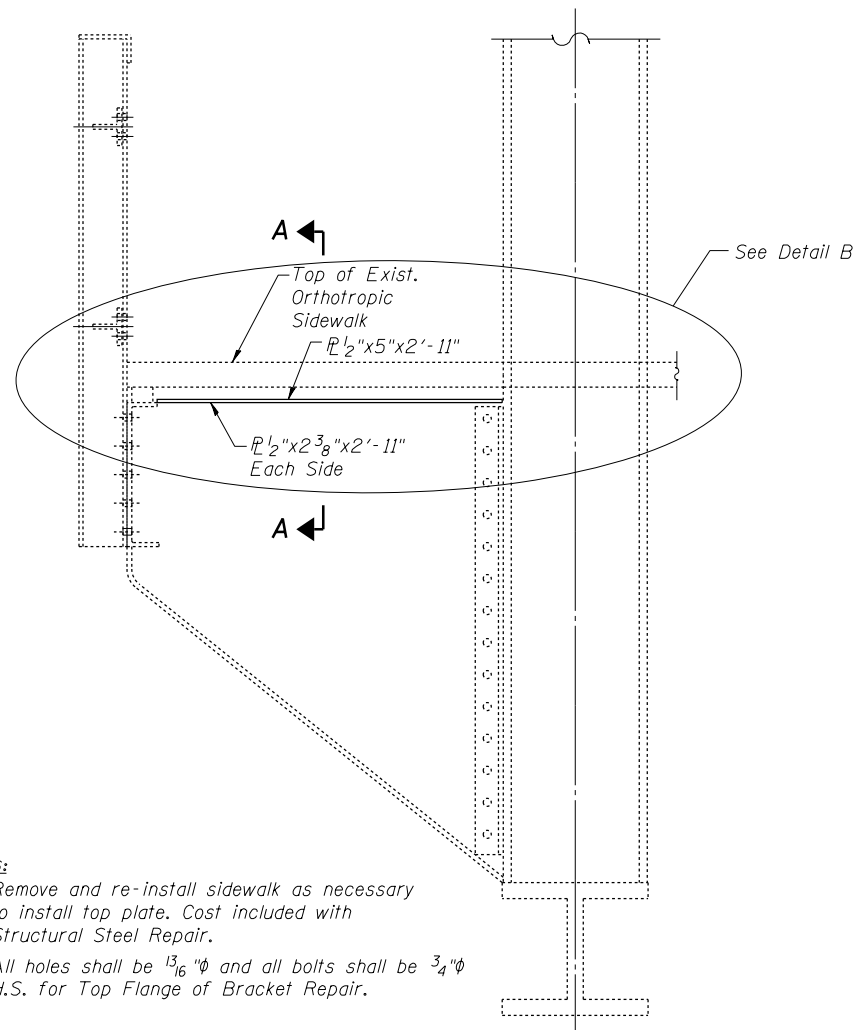


SECTION D-D

Legend:
V.I.F. - Verify in Field

Work this sheet with Sheet 27

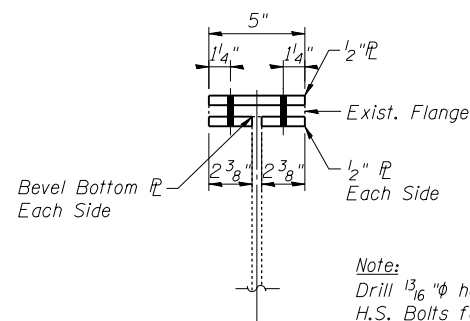
I:\Projects\48155550\40155550_0001\90_CAD_Models_and_Sheets\04_CJ_Bridge\SDI\0819505-64H28-021-Bracket.rvt



- Notes:**
1. Remove and re-install sidewalk as necessary to install top plate. Cost included with Structural Steel Repair.
 2. All holes shall be $\frac{13}{16}$ " ϕ and all bolts shall be $\frac{3}{4}$ " ϕ H.S. for Top Flange of Bracket Repair.

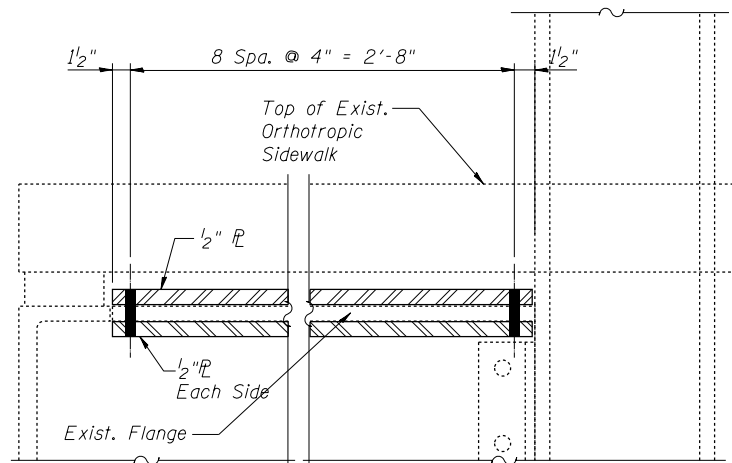
DETAIL 110

See Table for Locations



Note:
Drill $\frac{13}{16}$ " ϕ holes for $\frac{3}{4}$ " ϕ H.S. Bolts for Detail 110.

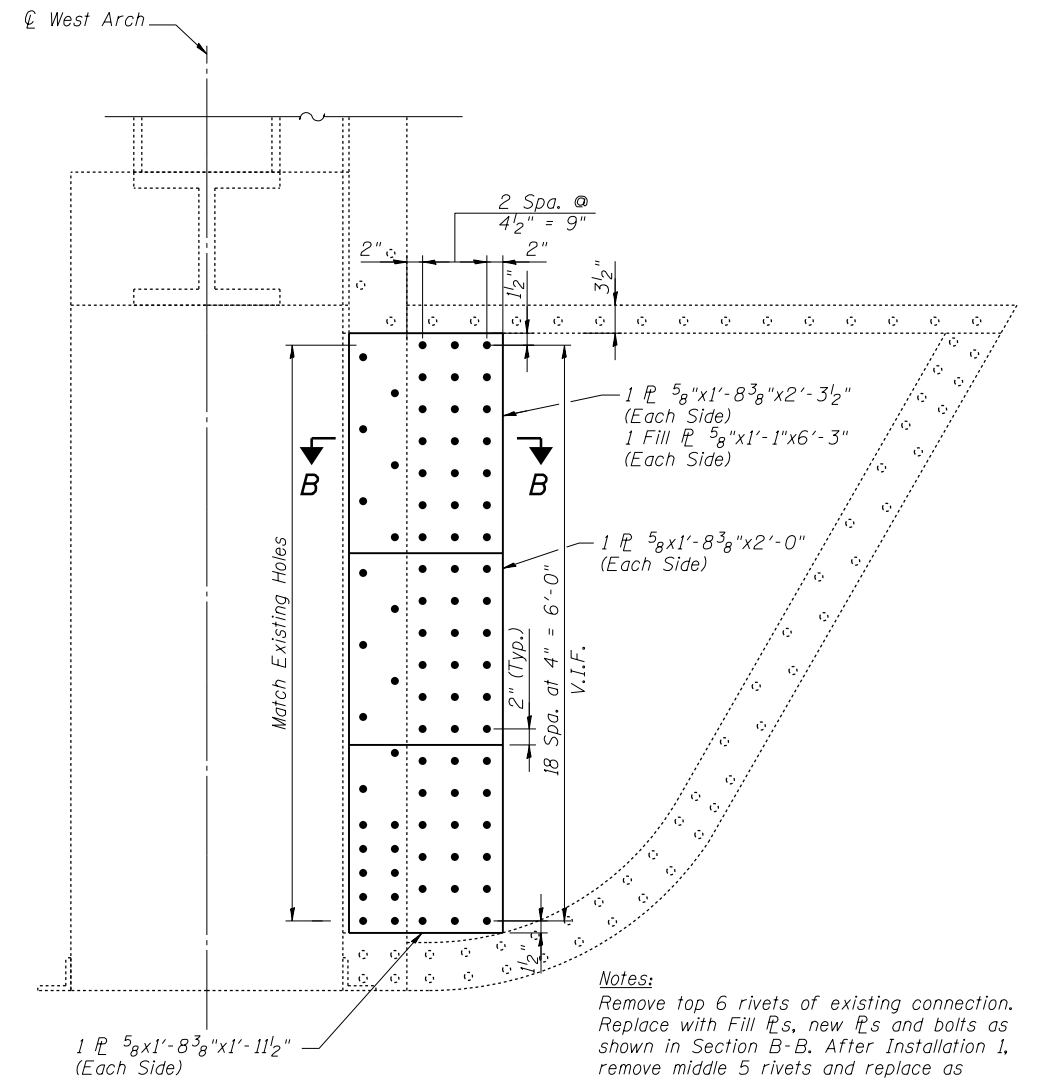
SECTION A-A



**DETAIL B
TOP FLANGE REPAIR ELEVATION**

DETAIL 110 - LOCATION SUMMARY

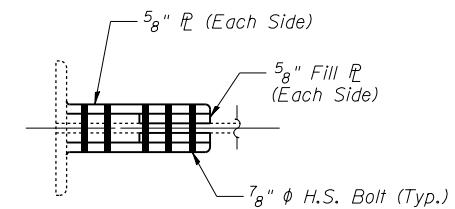
SPAN	MEMBER	LOCATION
9	FB 3	West Cantilevered Bracket
10	FB 11	East Cantilevered Bracket
10	FB 10	East Cantilevered Bracket
10	FB 8	East Cantilevered Bracket
10	FB 5	East Cantilevered Bracket
10	FB 4	East Cantilevered Bracket
10	FB 1	East Cantilevered Bracket
11	FB 8	East Cantilevered Bracket
11	FB 6	East Cantilevered Bracket
12	FB 10	East Cantilevered Bracket
12	FB 9	East Cantilevered Bracket
12	FB 8	East Cantilevered Bracket
12	FB 7	East Cantilevered Bracket
12	FB 6	East Cantilevered Bracket
12	FB 5	East Cantilevered Bracket
12	FB 4	East Cantilevered Bracket
12	FB 2	East Cantilevered Bracket
12	FB 2	West Cantilevered Bracket
12	FB 1	East Cantilevered Bracket
12	FB 1	West Cantilevered Bracket
13	FB 10	East Cantilevered Bracket
13	FB 7	East Cantilevered Bracket
13	FB 5	East Cantilevered Bracket
13	FB 4	East Cantilevered Bracket



Notes:
Remove top 6 rivets of existing connection. Replace with Fill PLs, new PLs and bolts as shown in Section B-B. After Installation 1, remove middle 5 rivets and replace as described for Installation 2. Remove Bottom 12 Rivets and complete Installation 3. All dimensions shall be verified in the field.

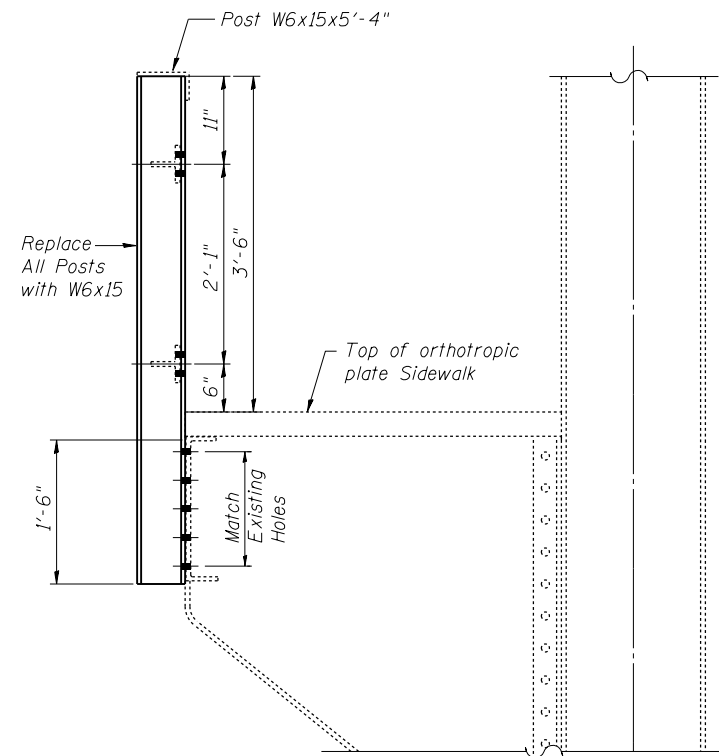
DETAIL 131

Span 11, Floor Beam 0, West End Bracket
Above Bearing at Pier 4



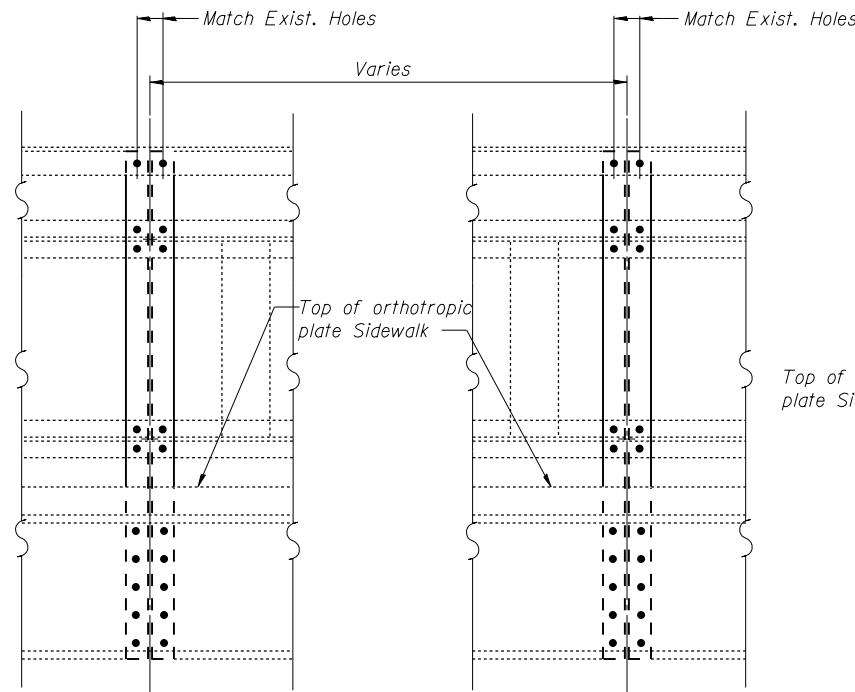
SECTION B-B

I:\Projects\4015550\4015550-0001-90-CAD Models and Sheets\04_CJ_Bridge\SD\10819505-64H28-023-Bracket.dgn



DETAIL 111

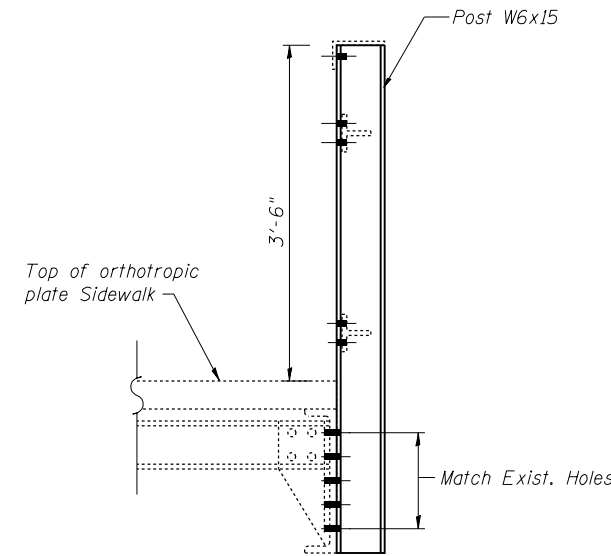
Rail Post at Arch Spans Floor Beam Brackets



ELEVATION OF SIDEWALK RAILING

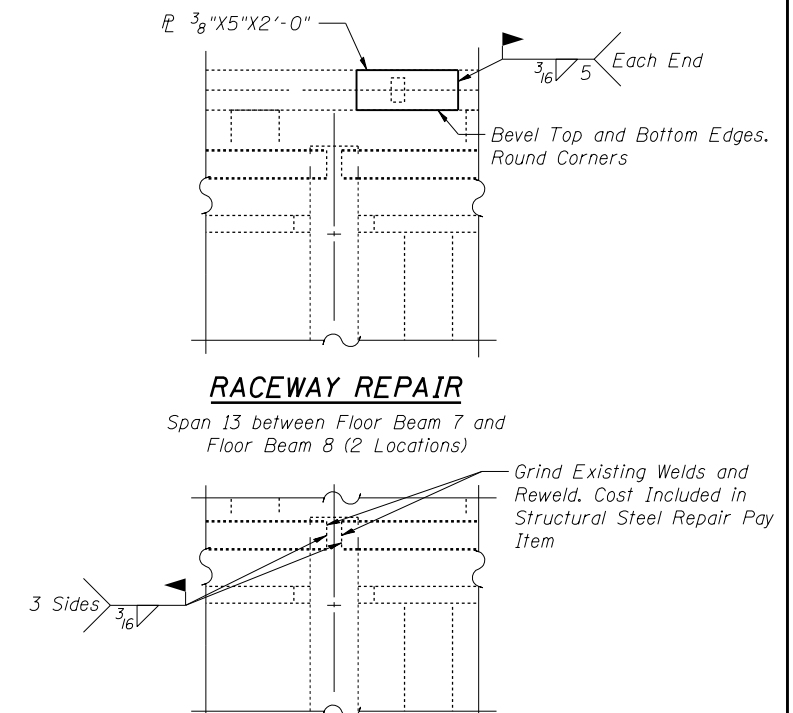
Notes:

1. Replace railing post as shown in Tables on Sheet 31 with W6x15 post. Reattach railing with new bolts at the existing rivet locations.
2. Provide new bolts in place of the existing loose bolts on the rail posts at the following locations:
West side, #121, #181, #246, #268, and #327. Cost of New Bolts shall be included in the Pay Item Steel Bridge Rail Posts.



DETAIL 114

Rail Post at Bracket, between Arch Span Floor Beam Brackets



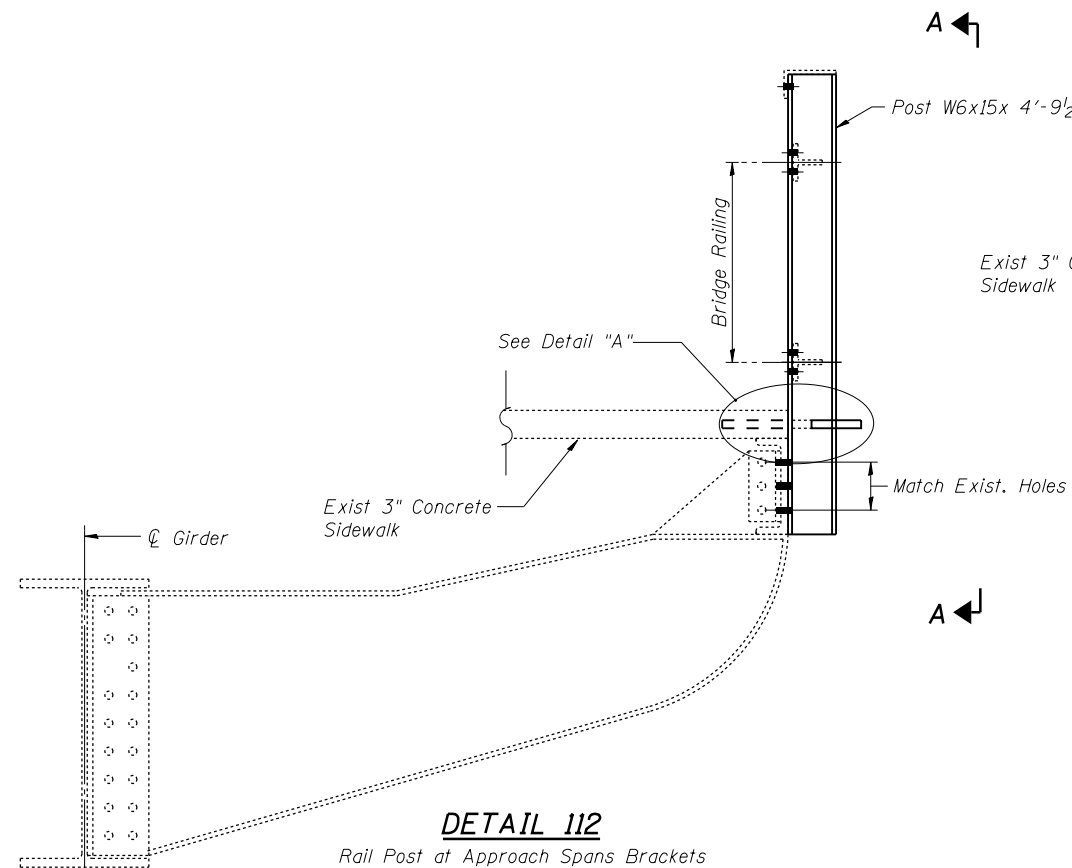
RACEWAY REPAIR

Span 13 between Floor Beam 7 and Floor Beam 8 (2 Locations)

TOP RAIL REPAIR

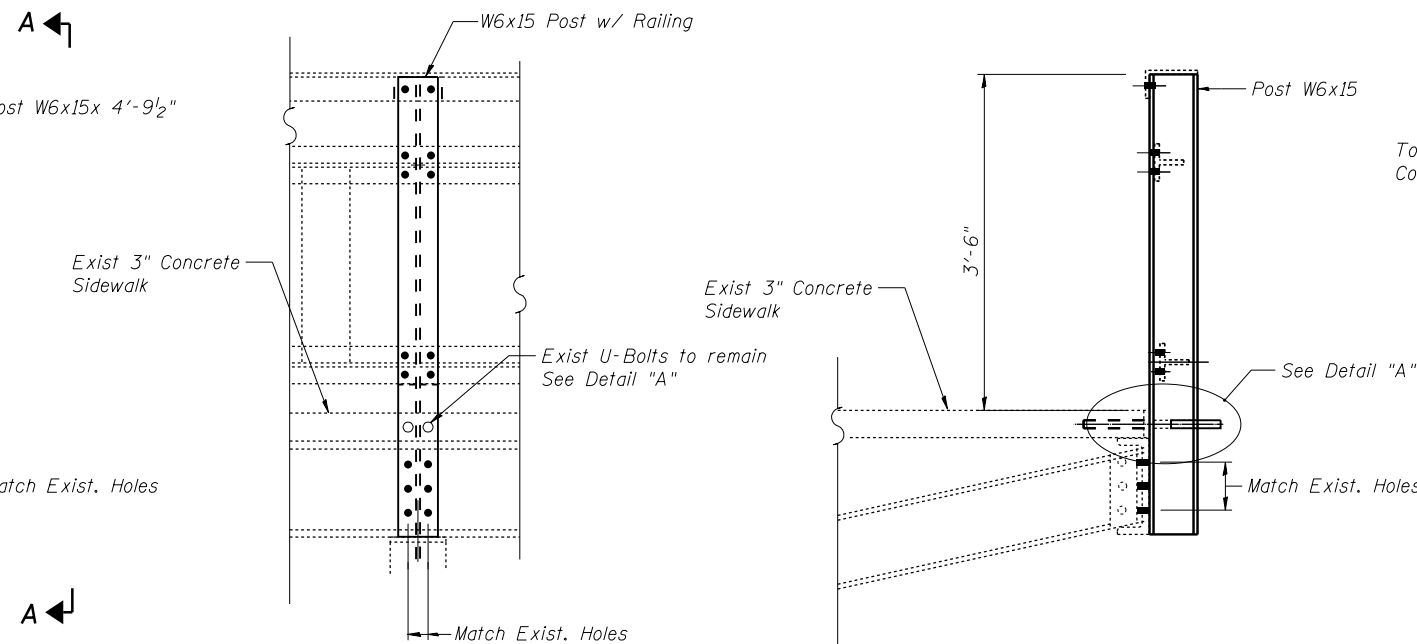
At Post location 429 and 467

DETAIL 115



DETAIL 112

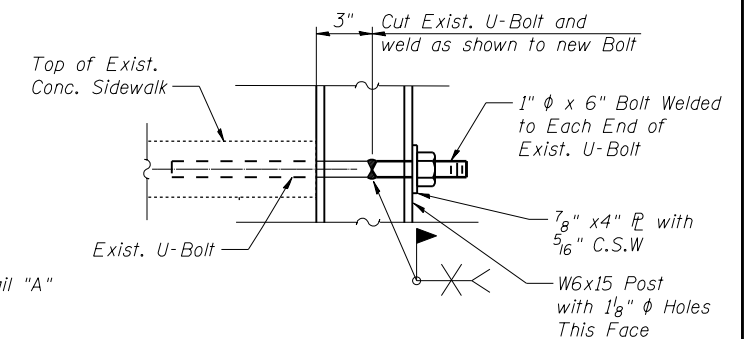
Rail Post at Approach Spans Brackets



VIEW A-A

DETAIL 113

Rail Post between Approach Spans Brackets



DETAIL "A"

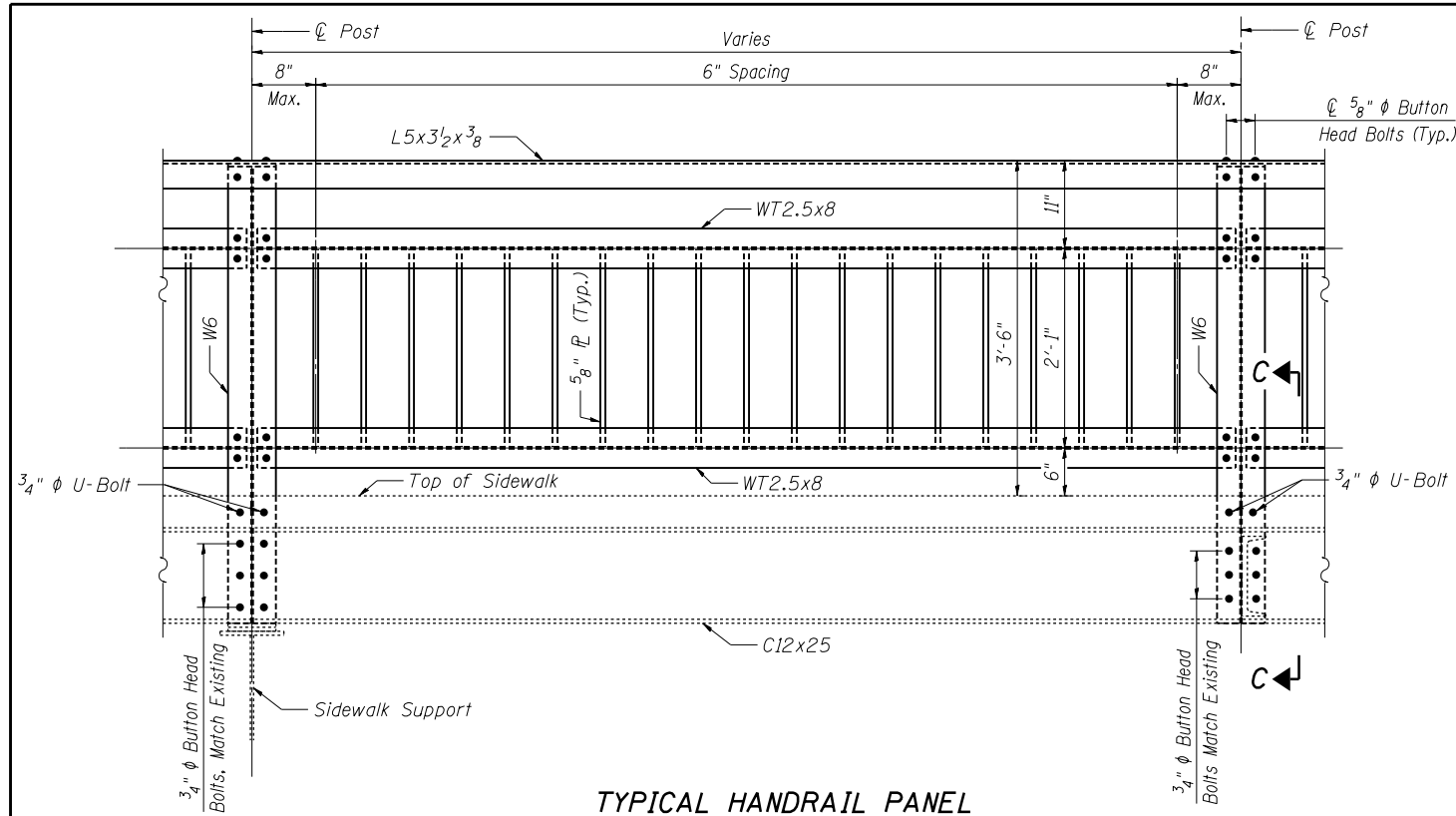
Legend:

V.I.F. - Verify in Field

Note:

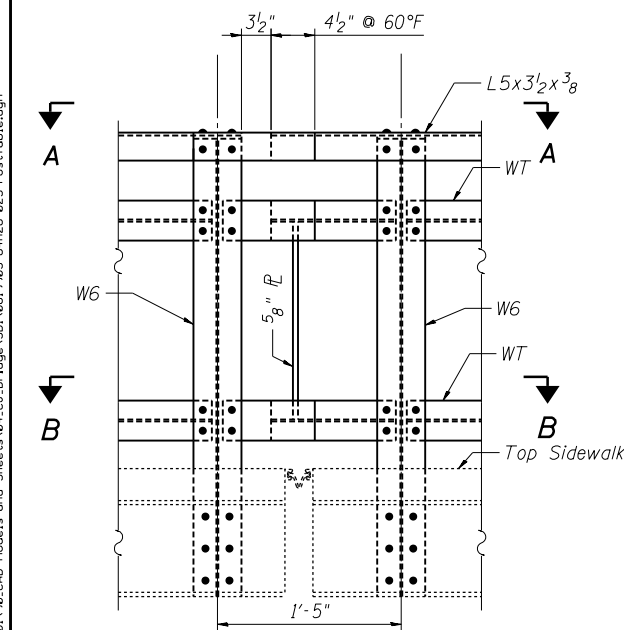
Replace existing rivets in railing and posts with 3/4" phi H.S. Bolts.

I:\Projects\4015550\4015550-0001\90_CAD_Models and Sheets\04_CJ_Bridge\SDI\0819905-64H28-024-Post.dgn

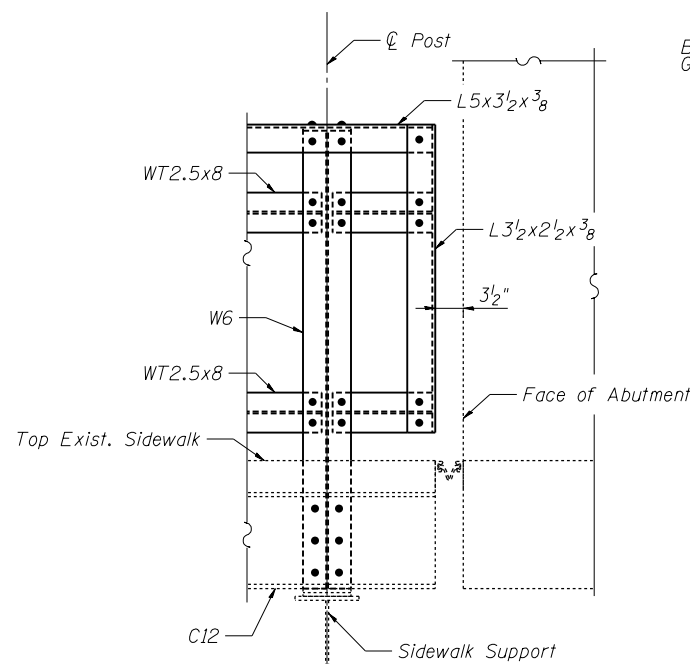


TYPICAL HANDRAIL PANEL

Total estimated length of railing to removed and replaced is 3,404 feet.

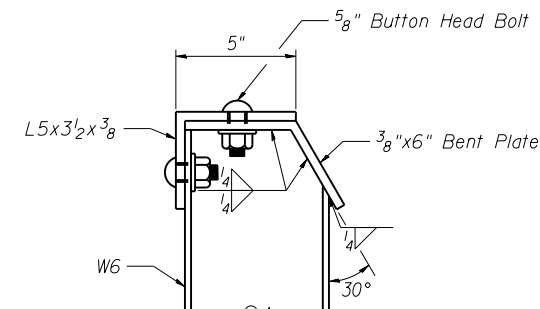


AT EXPANSION JOINT

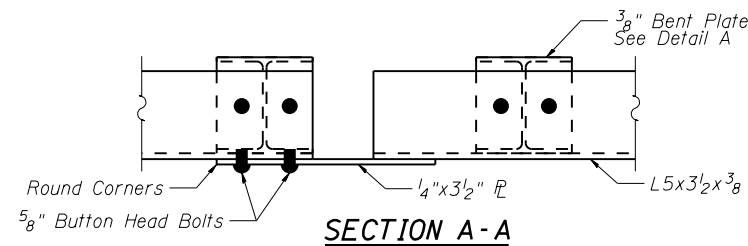


AT SOUTH ABUTMENT

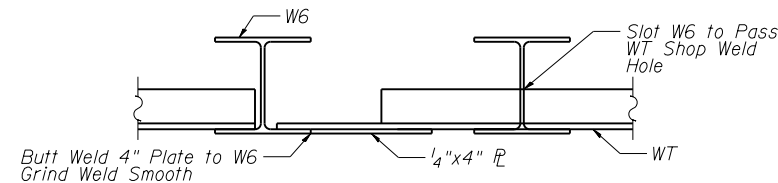
**EAST SIDE
RAIL AND POST
REPLACEMENT**



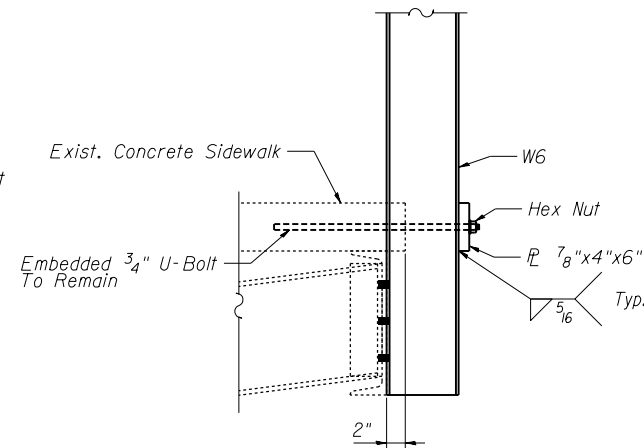
DETAIL A



SECTION A-A



SECTION B-B



SECTION C-C

**WEST SIDE
POST REPLACEMENT LOCATIONS**

WEST SIDE		
SPAN No.	POST No.	DETAIL No.
7	64	113
	65	113
	67	112
	69	112
	70	113
	71	112
	72	113
	73	112
74	113	
7-8	75	112
8	78	113
	79	112
9-1	93	114
	96	111
9-2	103	114
	107	114
9-3	108	111
	117	114
	118	114
10-5	119	114
	137	111
10-6	152	114
10-7	159	114
10-9	191	114
	192	114
12-1	262	114
	266	114
	267	114
	271	114
12-2	272	114
	275	114
	278	114
	278	114

WEST SIDE		
SPAN No.	POST No.	DETAIL No.
12-3	283	114
	285	111
12-4	295	114
	297	111
13-1	321	114
	329	114
13-2	333	114
	335	114
	337	114
	338	114
13-3	342	114
	345	114
14	346	114
	353	112
15	361	113
	366	112
16	370	112
	373	113
18	390	113
	399	112
19-20	404	112
	405	113
21	416	113
22	422	112
	424	112
23	428	112
	441	112
24	441	112
	458	113
26	458	113
29	474	113

South End

North End

Notes:

The posts are defined with span numbers, overall post numbers and detail numbers. Post replacements shall be paid as Pay Item "Steel Bridge Rail Post". See Special Provisions

Notes:

The finish coat of the railing shall match existing railing to remain. New handrail panel lengths to match existing. See Special Provisions.

Work this Sheet with Sheet 29

I:\Projects\4015550\4015550-0201-19-CAD Models and Sheets\04_CJ_Bridge\SDI\081905-64H28-025-PostTable.dgn

SDI STRUCTURE DESIGNS, INCORPORATED
ARCHITECTS & ENGINEERS
PH: (312) 551-9780 www.structuredesignsinc.com

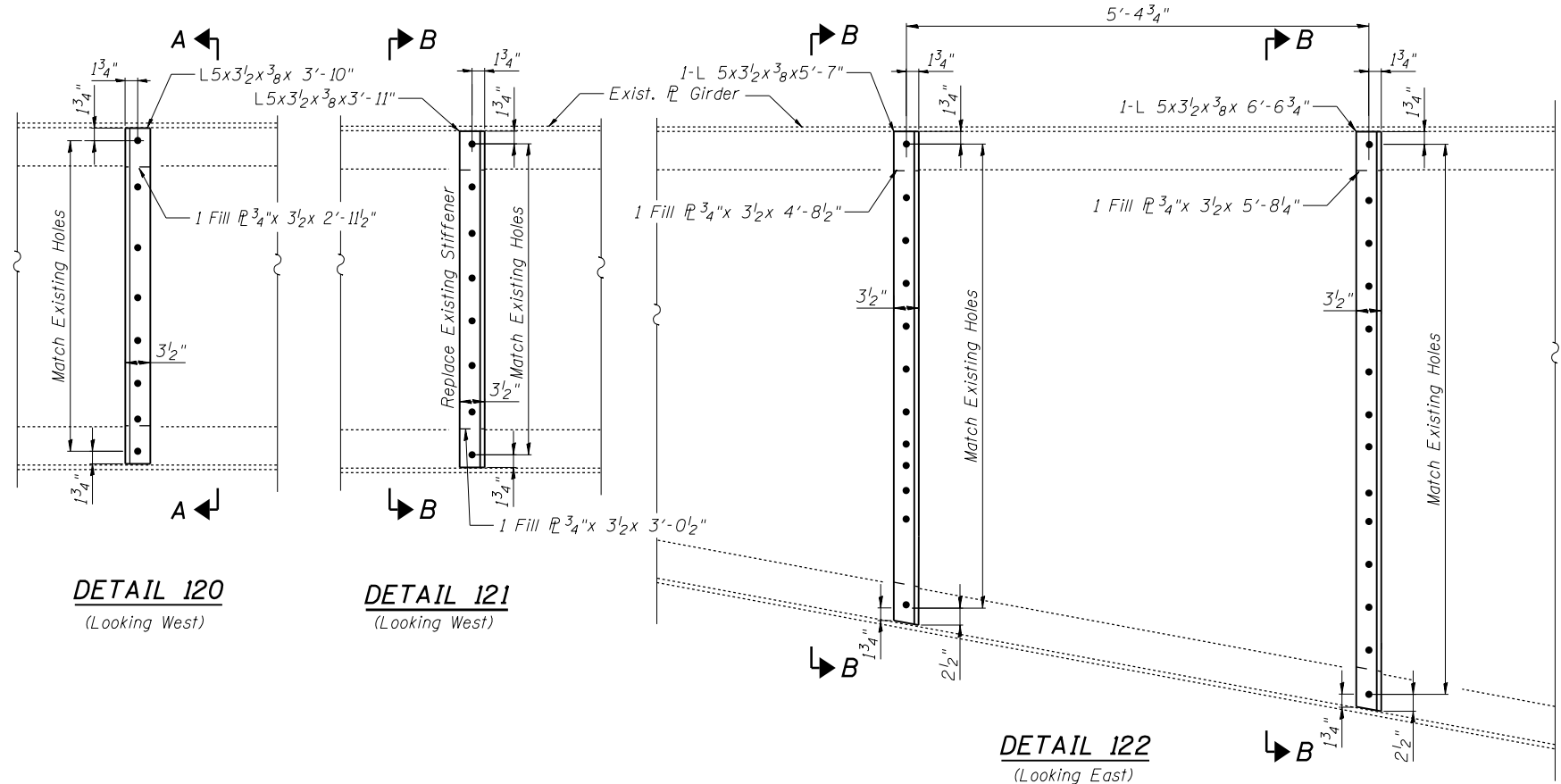
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PLOT SCALE = 2.00000' / in.	CHECKED - OAO	REVISED
PLOT DATE = 1/21/2014	DRAWN - JL	REVISED
	CHECKED - LRT	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDRAIL DETAILS
STRUCTURE NO. 081-9905

SHEET NO. 30 OF 33 SHEETS

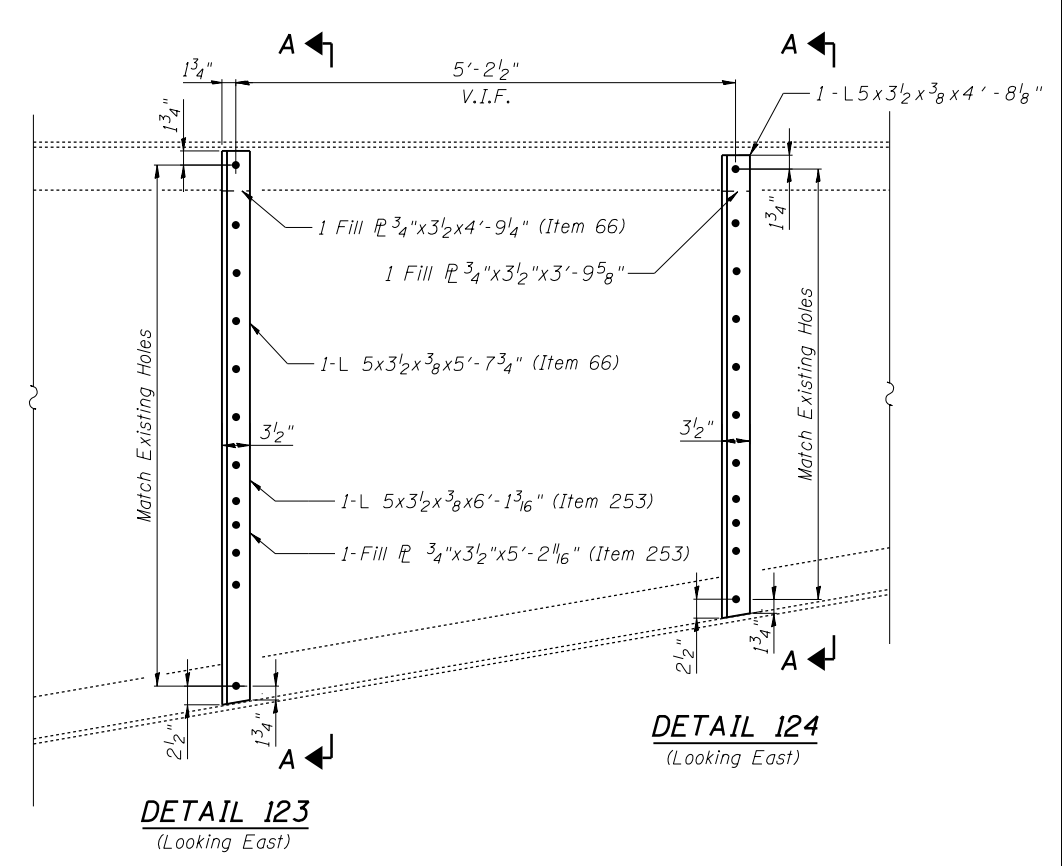
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	43
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT				



DETAIL 120
(Looking West)

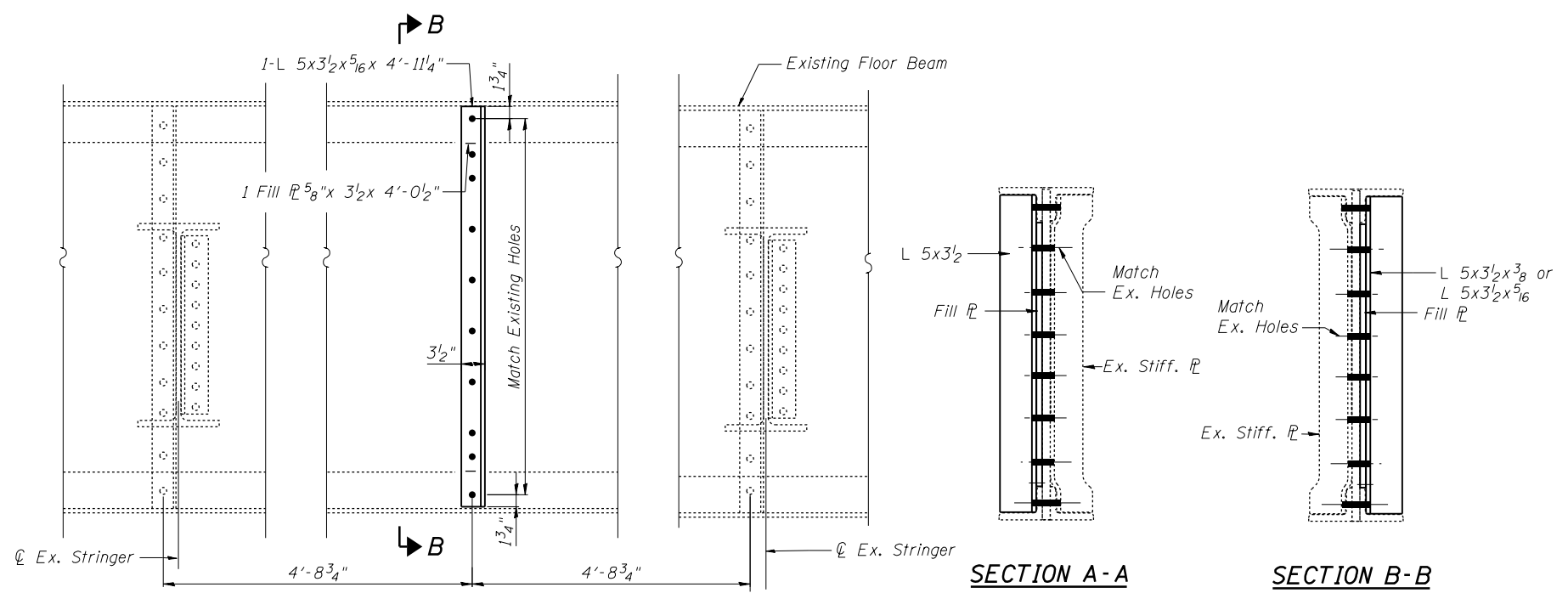
DETAIL 121
(Looking West)

DETAIL 122
(Looking East)



DETAIL 123
(Looking East)

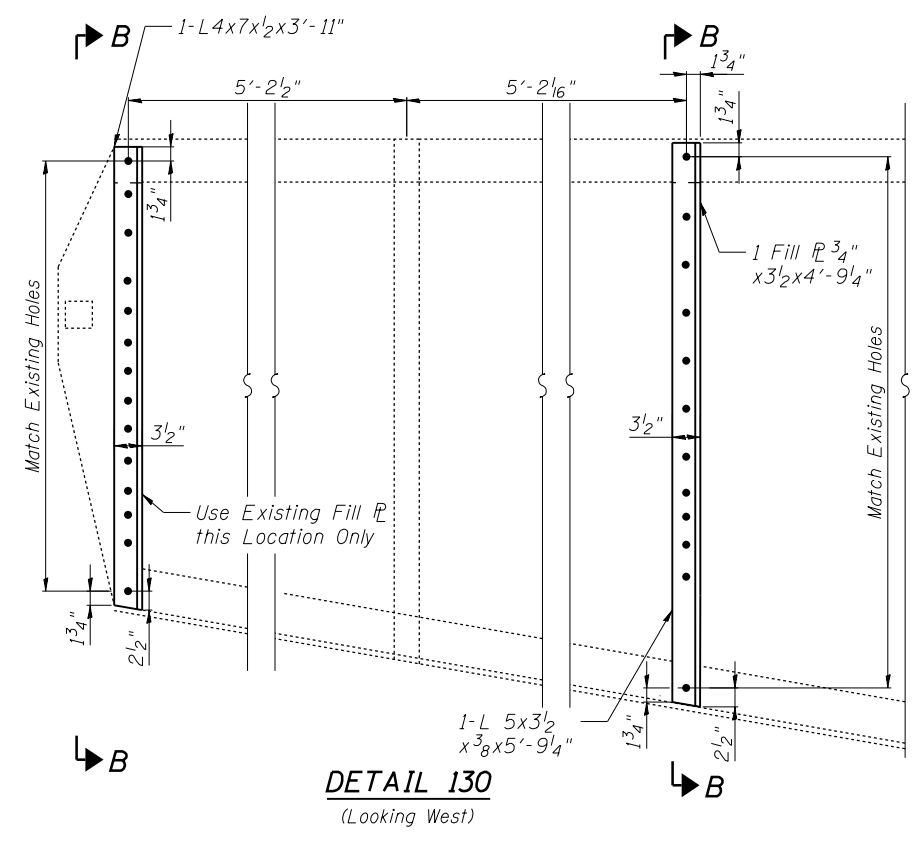
DETAIL 124
(Looking East)



DETAIL 125

SECTION A-A

SECTION B-B



DETAIL 130
(Looking West)

Note:
Replace existing rivets with 7/8"φ H.S. Bolts.
Ream existing holes to 15/16"φ (unless otherwise noted).

All Stiffeners are tight fit to match existing.

Work this Sheet with Table on Sheet 32.

I:\Projects\4015550\4015550-0001-90-CAD Models and Sheets\04_CJ_Bridge\SD\0819005-64H28-026-51stiffener.dgn

S D I
STRUCTURE DESIGNS, INCORPORATED
ARCHITECTS & ENGINEERS
PH: (312) 551-9780 www.structuredesignsinc.com

USER NAME = pattsjm	DESIGNED - LRT	REVISED
PLOT SCALE = 2:0" = 1' / in.	CHECKED - OAO	REVISED
PLOT DATE = 1/24/2014	DRAWN - JL	REVISED
	CHECKED - LRT	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STIFFENER REPLACEMENT DETAILS
STRUCTURE NO. 081-9905

SHEET NO. 31 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM)	ROCK ISLAND	47	44
C-92-090-12		CONTRACT NO. 64H28		

ILLINOIS FED. AID PROJECT

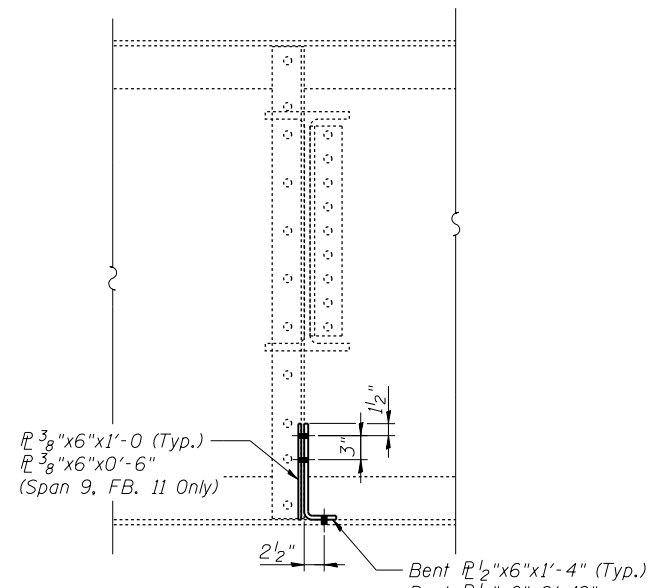
STIFFENER REPAIR LOCATIONS

DETAIL	SPAN	MEMBER	LOCATION
120	8	BEAM "D"	6th Stiffener from Bent 7, East Side
121	7	BEAM "D"	15th and 16th Stiffener from Bent 6, East Side
	26	BEAM "A"	4th Stiffener South of Bent 20, East Side
122	8	BEAM "F"	2nd & 3rd Stiffener from Bent 7, West Side
123	6	BEAM "A"	3rd Stiffener South Bent 6, East Side
	7	BEAM "F"	3rd Stiffener from Bent 7, West Side
124	7	BEAM "F"	19th Stiffener from Bent 6, West Side
125	11	FLOOR BEAM "13"	Between Stringer "E" and Stringer "F"-Panel 13
	12	FLOOR BEAM "9"	Between Stringer "A" and Stringer "B"- Panel 9
	12	FLOOR BEAM "6"	Between Stringer "E" and Stringer "F"-Panel 7
	13	FLOOR BEAM "0"	3rd, 4th and 8th Stiffener from West Side
126	9	FLOOR BEAM "8"	Stiffener @ Stringer "A" North Face
	9	FLOOR BEAM "8"	Stiffener @ Stringer "C" Panel 8, North Face
	9	FLOOR BEAM "5"	Stiffener @ Stringer "F" North Face
	9	FLOOR BEAM "11"	Stiffener @ Stringer "A" Panel 11
	11	FLOOR BEAM "8"	Stiffener @ Stringer "A" Panel 8, North Face
	12	FLOOR BEAM "7"	Stiffener Below Stringer "F" Panel 7, North Face
127	13	FLOOR BEAM "10"	Stiffener Below Stringer "F" Panel 10, North Face
128	12	FLOOR BEAM "9"	Stiffener Below Stringer "A" Panel 9, North Face
	13	FLOOR BEAM "9"	Stiffener @ Stringer "F"
129	9	FLOOR BEAM "0"	N. Face, Stiffener @ Stringers "B", "C", "D", & "E"
	12	FLOOR BEAM "0"	Stiffener @ Stringer "C"
	12	FLOOR BEAM "11"	Stiffeners @ Stringer "B", Stringer "C" and Stringer "D", Backside of Floor Beam
	13	FLOOR BEAM "11"	Stiffeners @ Stringer "B", Stringer "C" and Stringer "E" Below Joint
130	7	BEAM "A"	3rd and 5th Stiffener from Bent 7, East Side

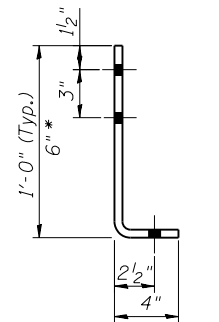
General Notes:
When referencing stiffeners, the first shall be on the pier or abutment.

Verify dimensions in field.

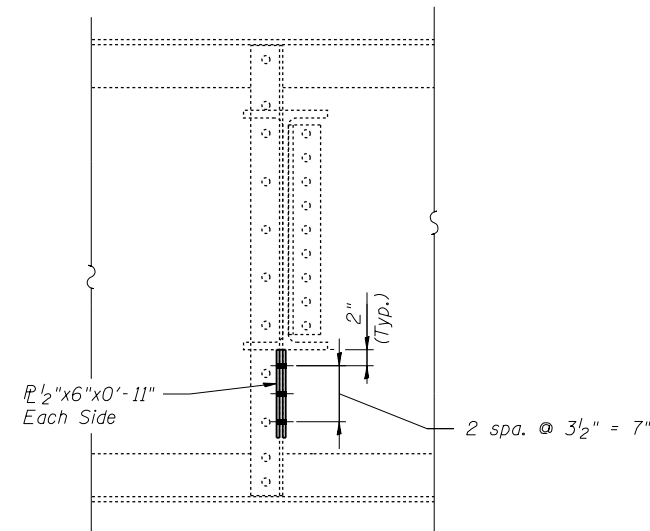
Work this Sheet with Sheet 31



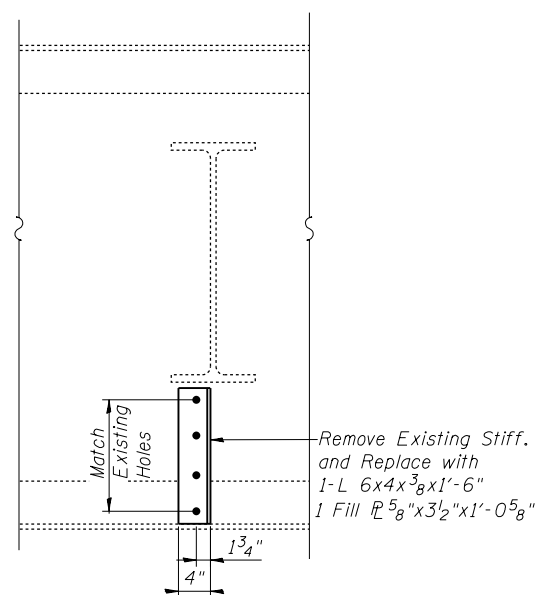
DETAIL 126
North Face
(Looking South)
Stringer "A" Shown
Stringer "C" Similar
Stringer "F" Similar but Opposite



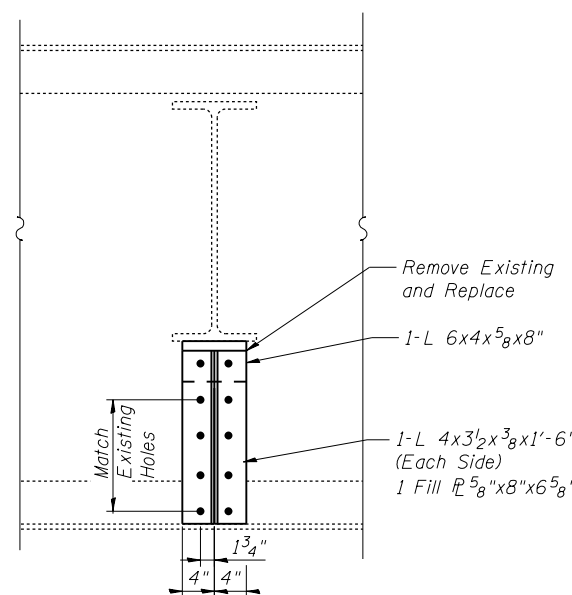
**BENT PLATE
DETAIL 126**
Bent 1/2"x6"x1'-4"
* - Span 9 FB. 11 Only.
Omit 2nd bolt hole and hold 1/2" edge distance.



DETAIL 127
Stiffener Repair @ Stringer "F" on
Floorbeam 10, Span 13

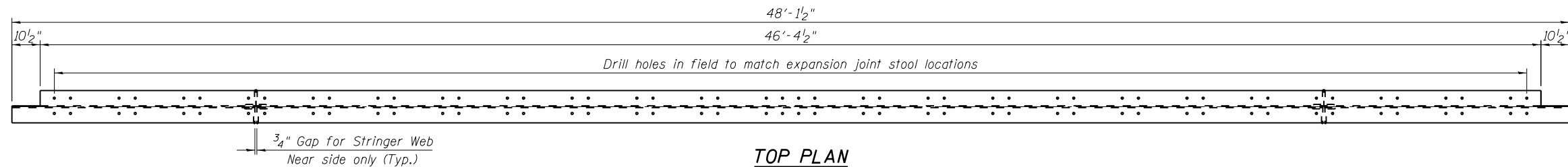


DETAIL 128
North Face
(Looking South)

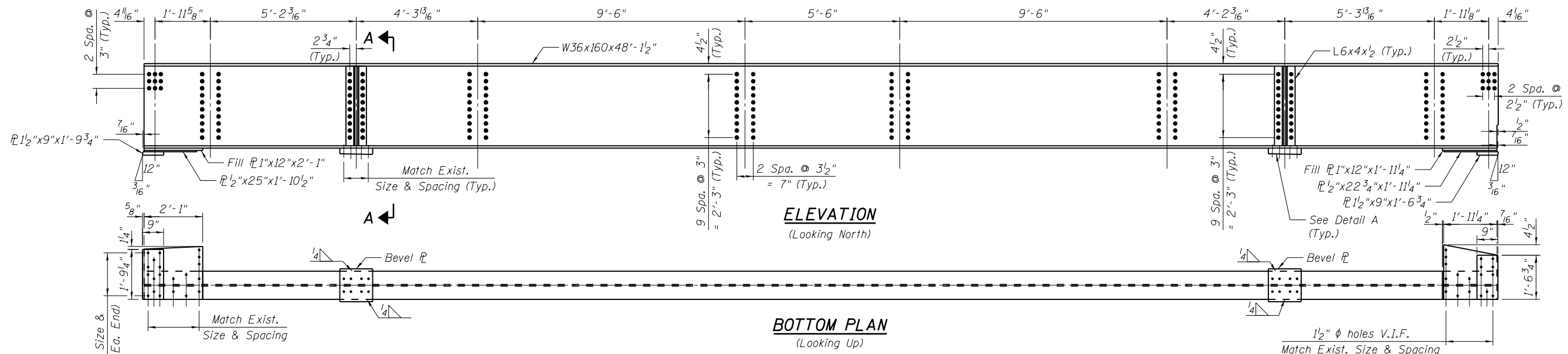


DETAIL 129
North Face
(Looking South)

I:\Projects\4015550\4015550-0001-90-CAD Models and Sheets\04_CJ_Bridge\SD\081905-64H28-027-511\StiffenerRepair.dgn



TOP PLAN

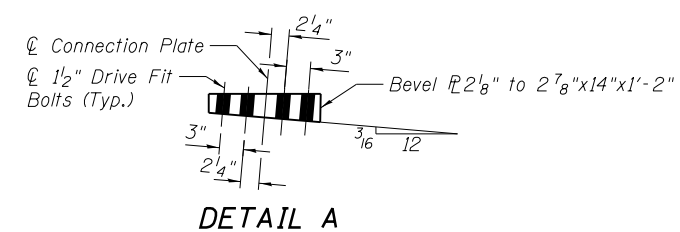


ELEVATION
(Looking North)

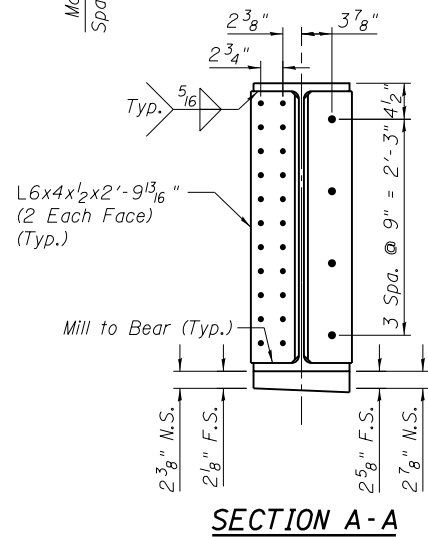
BOTTOM PLAN
(Looking Up)

TRANSFER BEAM

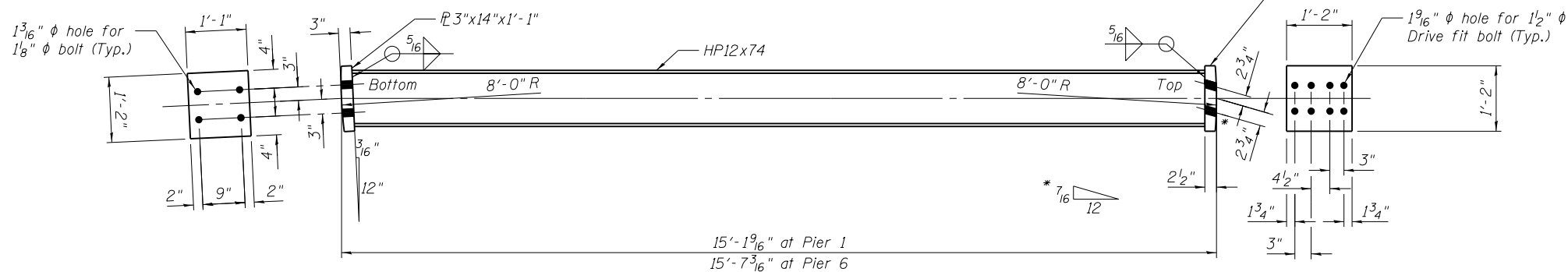
(2 Required)
(Transfer Beam at Pier 1 shown,
Pier 6 location similar but opposite.)



DETAIL A



SECTION A - A



SUPPORT COLUMN
(2 required per location, total 4)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnish and Erect Structural Steel	Pound	24,175
Structural Steel Removal	Pound	23,622

For information purposes only. Quantities billed in plan sheets.

Notes:

- All steel this sheet to be M270 Grade 50. Contractor to verify all dimensions prior to ordering steel.

FILE NAME = I:\Projects\4015550\4015550_0001\90_CAD_Models_and_Sheets\04_CJ_Bridge\0819085-64H28-023-Transfer Beam Shop Draw.dgn



USER NAME = pattisjm	DESIGNED - JMP	REVISIONS
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - SB	REVISIONS
PLOT DATE = 1/24/2014	DRAWN - JMP	REVISIONS
	CHECKED - SB	REVISIONS

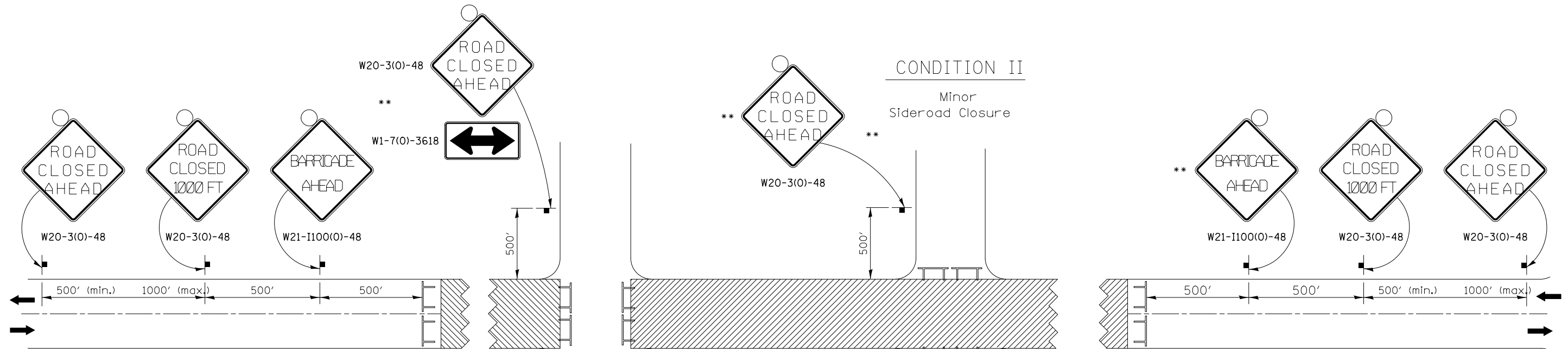
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRANSFER BEAM DETAILS
STRUCTURE NO. 081-9905

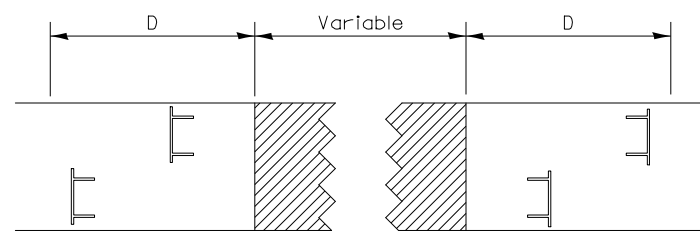
SHEET NO. 33 OF 33 SHEETS

F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRM)	ROCK ISLAND	47	46
C-92-090-12		CONTRACT NO. 64H28		
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE






ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

CONDITION II

Minor Sideroad Closure

CONDITION I

Major Sideroad Closure

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

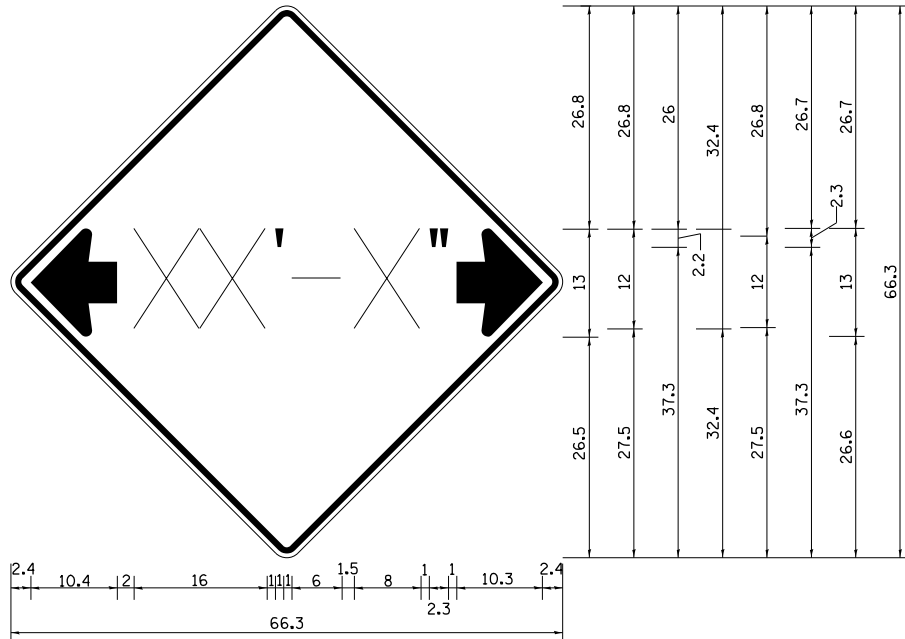
** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

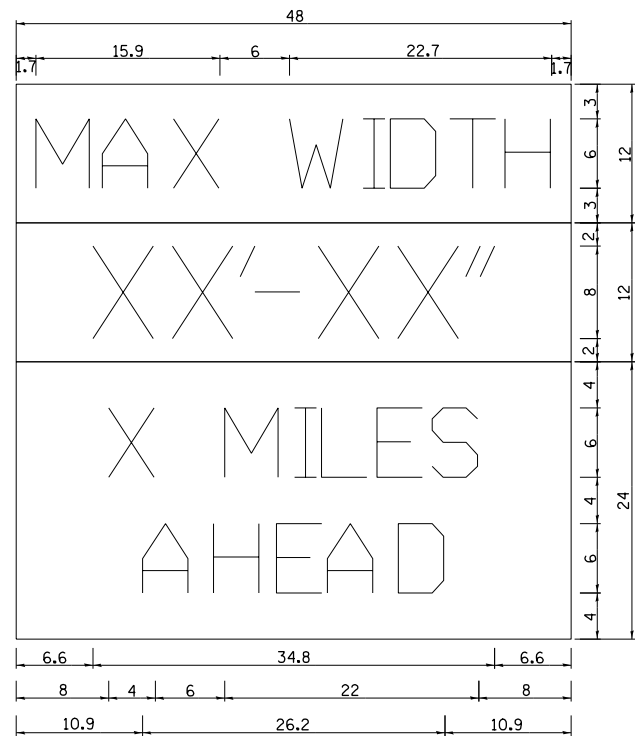
TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME = I:\Projects\4015550\4015550.0001\90.CAD	USER NAME = thompsrd	DESIGNED -	REVISED - 8-27-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE. 308	SECTION (3BRIM)	COUNTY ROCK ISLAND	TOTAL SHEETS 47	SHEET NO. 47
	Models and Sheets\04.C.Civil\Sheets\0264H28.dwg	CHECKED -	REVISED - 10-17-11				CONTRACT NO. 64H28				
	PLOT SCALE = 103.5000' / in.	DATE -	REVISED -				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
	PLOT DATE = 1/21/2014	DATE -	REVISED -				SCALE: SHEET NO. 47 OF 47 SHEETS STA. TO STA.				

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-I103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

No border, Black on Orange;
 [XX'-XX''] D;

No border, Black on White;
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

USER NAME = thompsrd	DESIGNED - RDT/GC	REVISED -
DRAWN - RDT	CHECKED - JAC	REVISED -
PLLOT SCALE = 100.0000' / 1in.	DATE - 11-08-2013	REVISED -
PLLOT DATE = 1/27/2014		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 47A OF 47 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(3BRIM	ROCK ISLAND	47	47A
C-92-090-12			CONTRACT NO. 64H28	
ILLINOIS FED. AID PROJECT HSIP-XXXX (XXX)				

FILE NAME = \\stvgpouasturmc.com\3\CHIL\Vol3\Projects\4015550\4015550\0001\90_CAD_Models_and_Sheets\04_C.Civil\Sheets\0264428-details_01.dgn