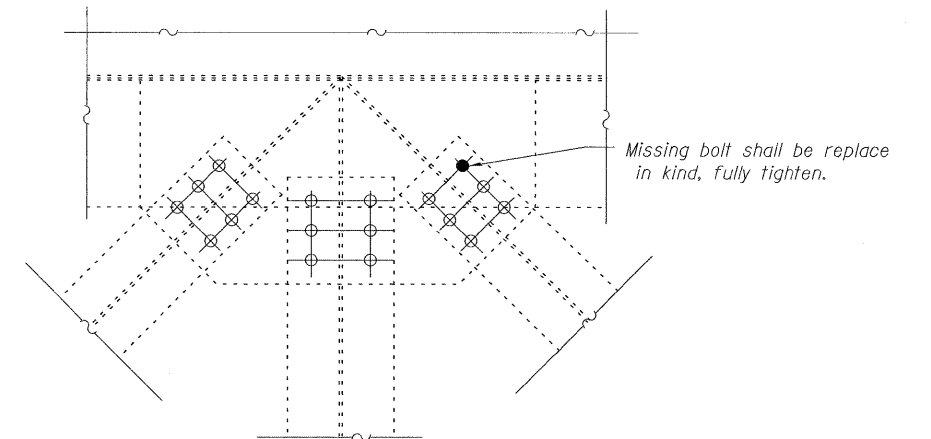


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOOSE OR MISSING BOLT LOCATIONS

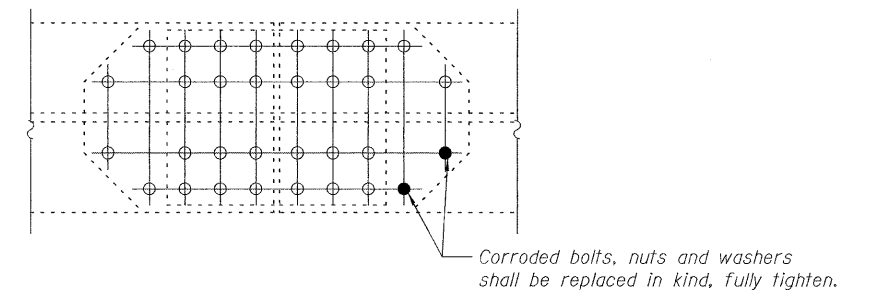
Span	CF #	Bay	Girder No.	Floor Beam No.	No. of Bolts	Remarks
3	2	4	5	-	3	
3	3	8	8	-	1	
3	3	9	10	-	3	
4	3	3	3	-	3	
5	3	9	10	-	3	
5	4	3	4	-	3	
5	4	10	10	-	1	
5	5	3	3	-	1	
6	4	9	10	-	2	
6	2	3	3	-	3	
6	3	3	3	-	3	
6	3	9	10	-	3	
6	4	3	3	-	3	
6	-	-	4	-	4	Corroded bolts and nuts below joint at pier 7.
6	-	-	1	1	4	Broken nuts to be replaced are located at FB1 and Girder 1.
6	-	-	12	-	2	Corroded bolts located in the field splice.
18	-	-	S3	2	1	Replace 1 loose bolt at stringer 3 to floor beam 2 connection.
20	-	-	4	3	1	Bolt is located in splice plate 10' north of FB3
24	-	-	-	-	1	Replace bolts that have missing nuts. Located on the wind tongue btwn. FB1 and FB2.
29	3	2	2	-	1	
31	-	-	1	-	2	Corroded bolts located in the field splice.

Note: If any additional loose, broken, missing or severely corroded bolts not listed are encountered, the Contractor shall also replace those bolts, As approved by the Engineer. See Special Provisions.



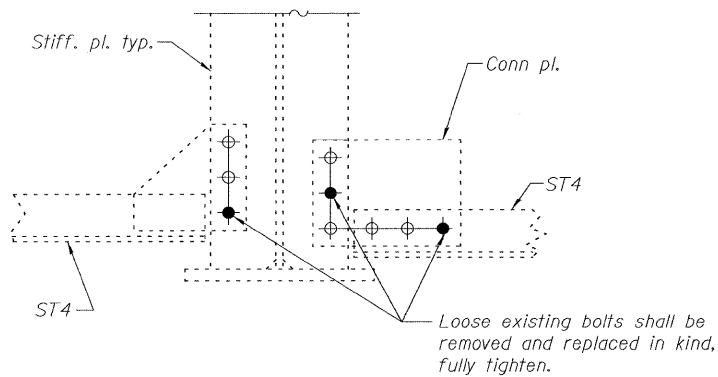
MISSING BOLT REPLACEMENT

Span 13 - Lateral Bracing F.B.3 @ Girder 4

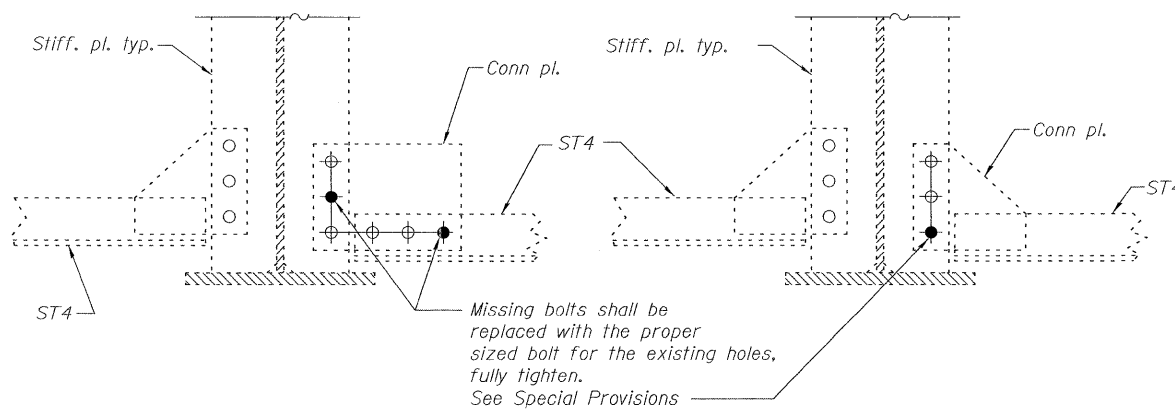


CORRODED BOLT REPLACEMENT

Span 6 - Girder 12 - Field splice on bottom flange
Span 31 - Girder 1 - Field splice on bottom flange



LOOSE BOLTS



MISSING BOLT REPLACEMENT

BILL OF MATERIAL

Item	Unit	Total
Bolt Replacement	Each	48

STEEL REPAIR DETAILS - 1
STRUCTURE NO. 060-0035

DESIGNED	TMB
CHECKED	TSB
DRAWN	JGC / TMB
CHECKED	TSB

400 WOODS MILL RD. SOUTH, SUITE 330
CHESTERFIELD, MO. 63017
PHONE: 314.434.2900

SHEET NO. 16	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	270	60B-I-8	MADISON	49	29
36 SHEETS		CONTRACT NO. 76A92			
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT					

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