

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIR PROCEDURE

1. Disconnect the lateral bracing members at L17N and temporarily support the disconnected members.
2. Remove existing lateral bracing connection plates and angles at L17N. Rivets extending through the inside gusset plate and into the lateral bracing connection angles to be removed, shall be removed and replaced with H.S. bolts one at a time. After removal of the lateral bracing connection angles, the first nut and washer, as shown in Detail "A" on sheet 8 of 13, shall be installed and fully tightened.
3. Cut the ends of the existing lateral bracing members to remain in place as indicated on sheet 6 of 13.
4. Remove the remaining existing gusset plate rivets and replace with H.S. bolts. Existing rivets shall be replaced with H.S. bolts one at a time. As each rivet is replaced with a H.S. bolt, the first washer and nut, as shown in Detail "A" on sheet 8 of 13, shall be installed and fully tightened.
5. Clean and paint the existing gusset plates as detailed on sheet 8 of 13.
6. Field verify the layout of the proposed H.S. bolts and order and install new gusset plates, connection plates and connection angles as indicated on sheet 7 and 8 of 13.
7. Install second washer and nut on double-nut gusset plate bolts and fully tighten.
8. Reconnect lateral bracing members.

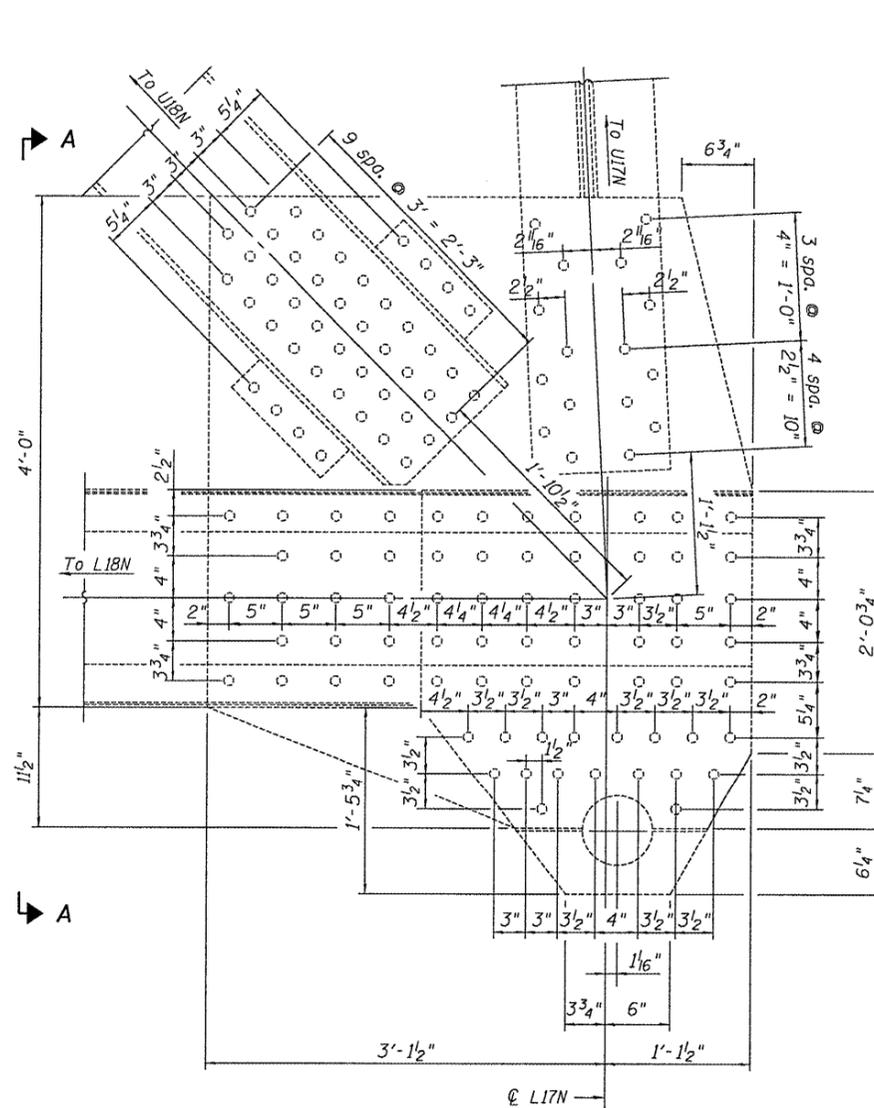
Notes:

The existing rivet spacings and gusset plate dimensions are shown for information only. The Contractor shall field verify prior to ordering materials.

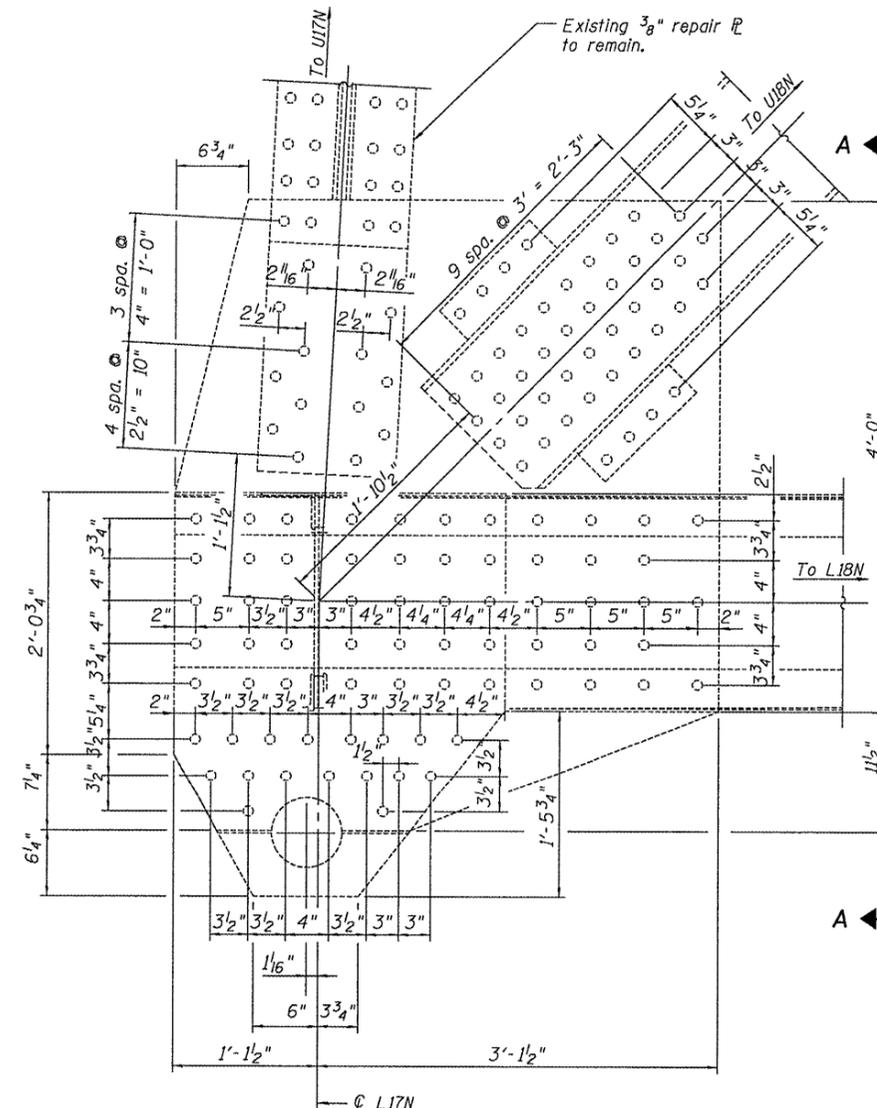
Temporary support of the existing lateral bracing members during repair of the existing inside gusset plate is required. Cost included with "Structural Steel Repair".

Work this sheet with sheet 6 thru 8 of 13.

SPAN 12 L17N GUSSET P REPAIR DETAILS
STRUCTURE NO. 090-0030



ELEVATION - EXISTING
(Looking South at outside gusset)



ELEVATION - EXISTING
(Looking North at inside gusset)
(Lateral bracing not shown for clarity)

DESIGNED - SDS
CHECKED - FLL
DRAWN - DLH
CHECKED - SDS

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

•• PEORIA

SHEET NO. 5 13 SHEETS	F.A. RTE. 669	SECTION 103B-I-5	COUNTY ••	TOTAL SHEETS 18	SHEET NO. 10
				CONTRACT NO. 68987	
ILLINOIS FED. AID PROJECT					

Operator: gjameson

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