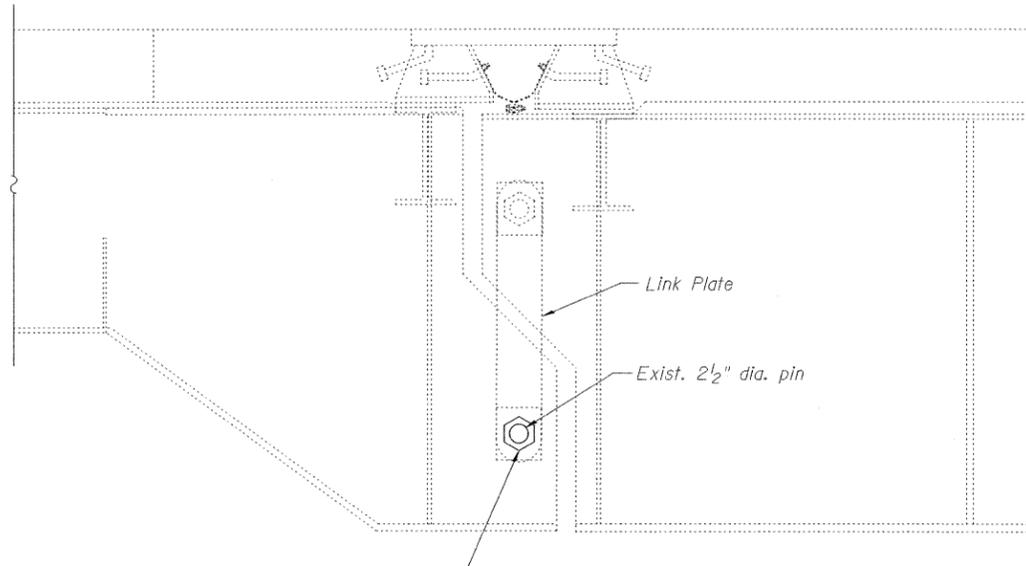
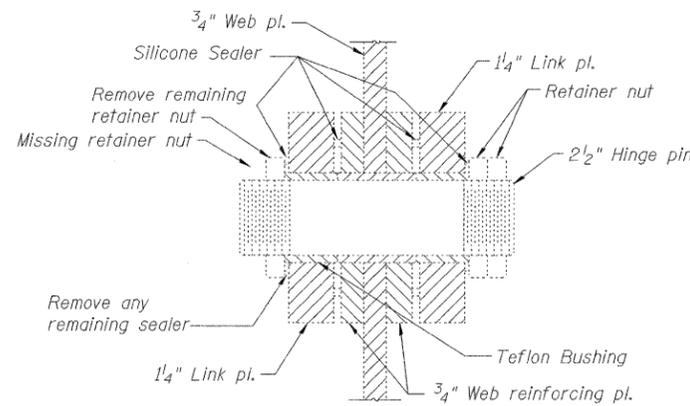


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



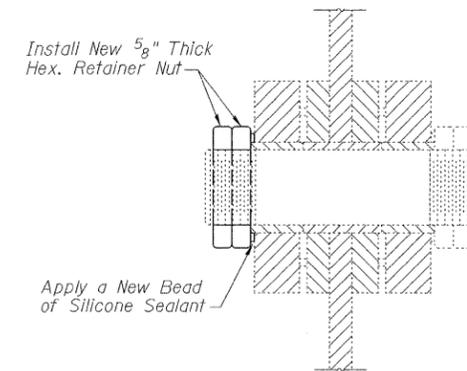
Remove remaining existing hinge pin retainer nut and replace with two New Hinge Pin Retainer Nuts

ELEVATION - HINGE NEAR PIER 3 - BEAM B10



SECTION THRU EXISTING HINGE PIN

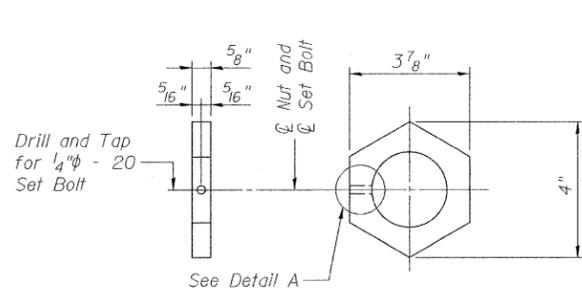
Remove remaining retainer nut, with out damaging retainer pin threads or dislodging link pin.



For details not shown, see "Section Thru Existing Hinge Pin".

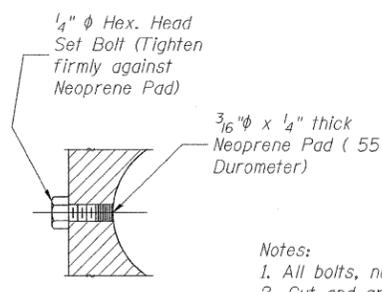
SECTION THRU MODIFIED HINGE PIN

Clean surface of link plate and repair any painted surface damaged during the retainer nut removal.
Install new retainer nuts. Tighten inside nut to bring all bushing into firm contact, then back off 1/4 turn and tighten outer nut.
Apply a bead of silicone sealant around nuts after installation.
Silicone sealant shall be suitable for prolonged exterior exposure with out losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to the Department's acceptance based on documented testing or other evidence.



RETAINER NUT DETAIL

Material for new nut shall be ASTM A-576 Grade 12L14. (2 Required)



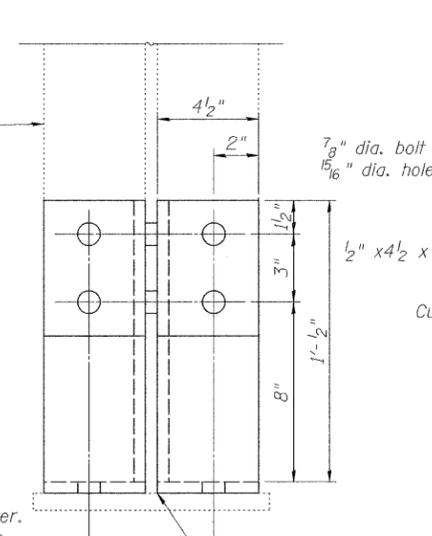
DETAIL A

Set Bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

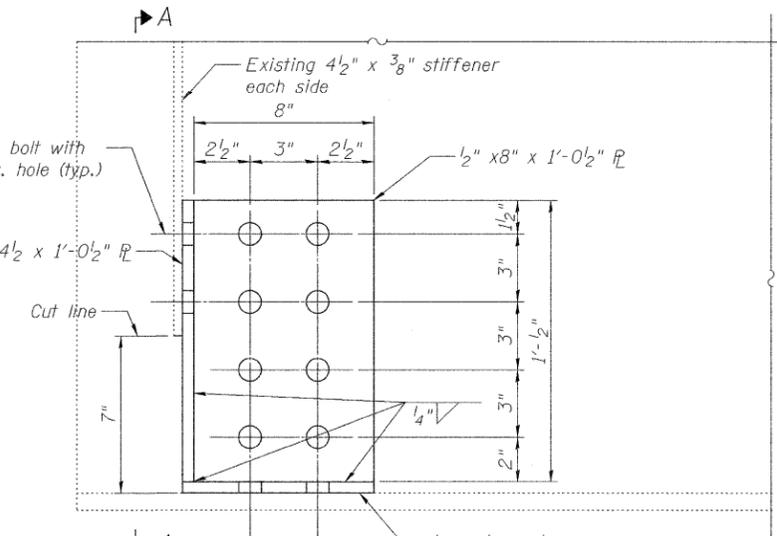
Note:

Contractor shall secure pin and link plate prior to removing and reinstalling retainer nut. Method of securing pin and link assembly shall be submitted to the Engineer for approval prior to work on assembly.

Existing 4 1/2 inch x 3/8 inch stiffener each side



SECTION A-A



ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pounds	125

BEARING STIFFENER REPAIR

Span 1 - Pier 2 - Beam 1 - both bearing stiffeners as shown
Span 42 - Pier 43 - Beam 6 - one bearing stiffener only

STEEL REPAIR DETAILS - 2
STRUCTURE NO. 060-0035

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	270	60B-I-8	MADISON	49	30
36 SHEETS					
CONTRACT NO. 76A92					
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT					

DESIGNED	TMB
CHECKED	TSB
DRAWN	JGC / TMB
CHECKED	TSB



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