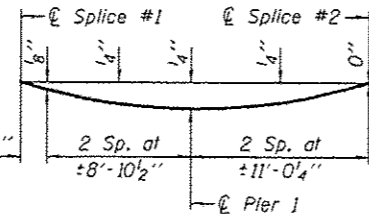
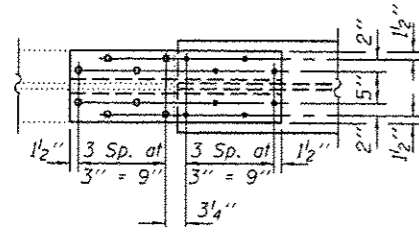


GIRDER ELEVATION

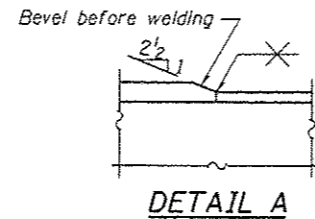
(Girder 2 shown, Girder 1 similar except as noted.)

○ - Use holes in existing girder as a template for drilling holes in new steel.

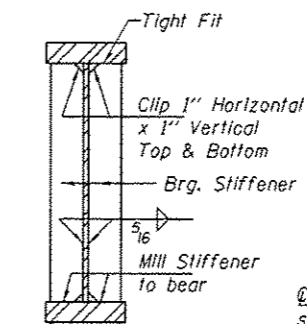
Note: Natural camber of new beam shall be placed upward for fabrication.



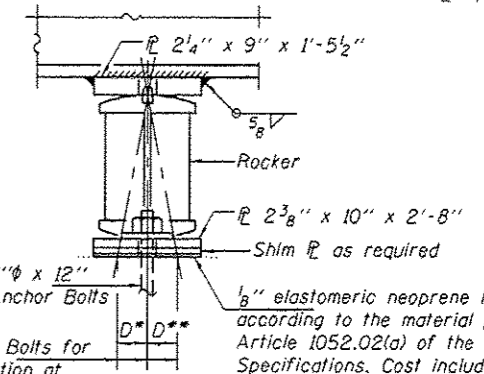
CAMBER DIAGRAM



DETAIL A



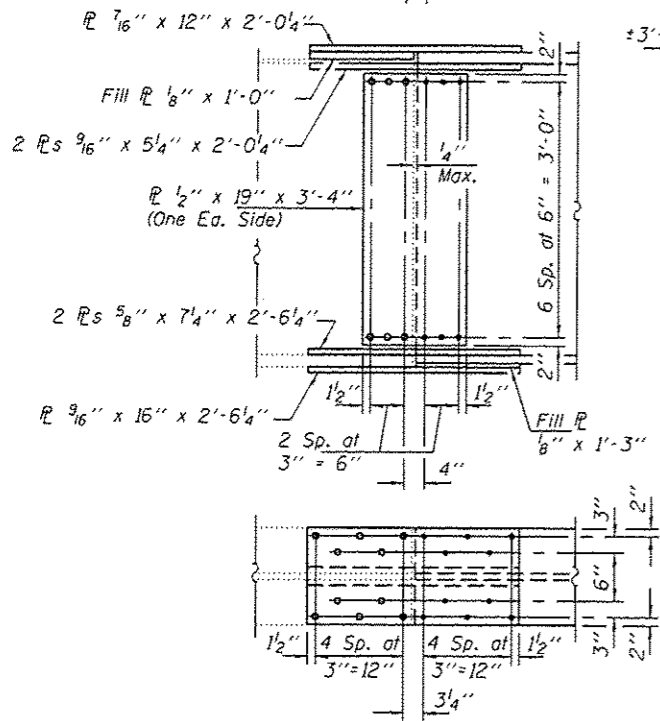
SECTION AT PIER



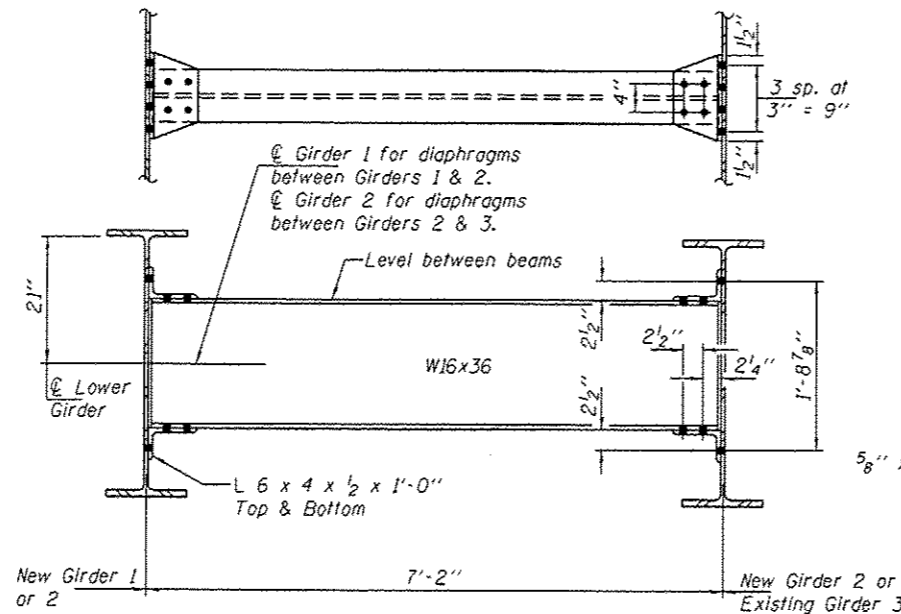
PROPOSED BEARING AT PIER 1

Cost of bearing is included with Structural Steel.

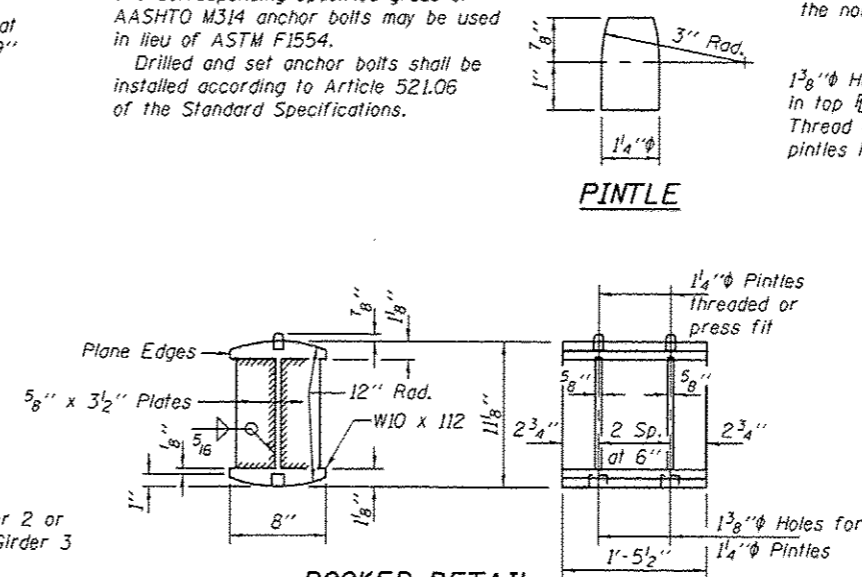
- * D = 1/8" / 100 ft. of exp. for every 15° below the normal temperature of 50°F.
- ** D = 1/8" / 100 ft. of exp. for every 15° below the normal temperature of 50°F.



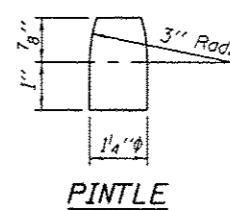
SPlice DETAIL



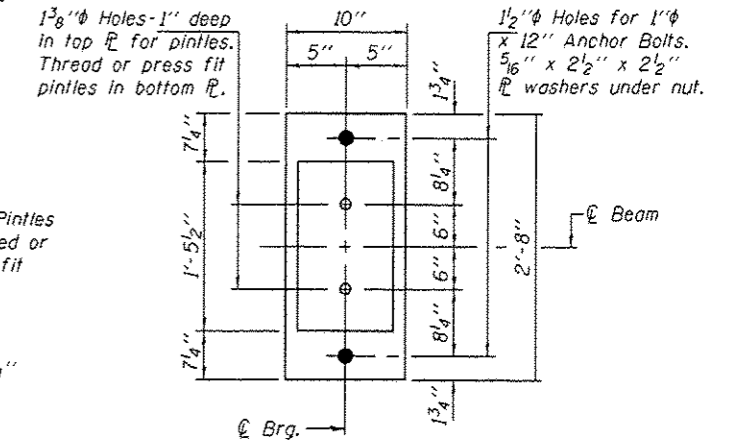
DIAPHRAGM REPLACEMENT DETAIL



ROCKER DETAIL



PINTLE



BEARING PLAN

*** Burn existing anchor bolts at girder 2 flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

DESIGNED TLC
 CHECKED SMR
 DRAWN steffen
 CHECKED TLC SMR

EXAMINED
 PASSED
 Timothy A. Anelli
 ACTING ENGINEER OF STRUCTURAL SERVICES
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE AUGUST 30, 2013
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GIRDER, DIAPHRAGM & BEARING REPLACEMENT DETAILS
 SN 053-0129

SHEET NO. 4 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	153-50-11-3	LIVINGSTON	15	12
CONTRACT NO. 66D16			ILLINOIS FED. AID PROJECT	