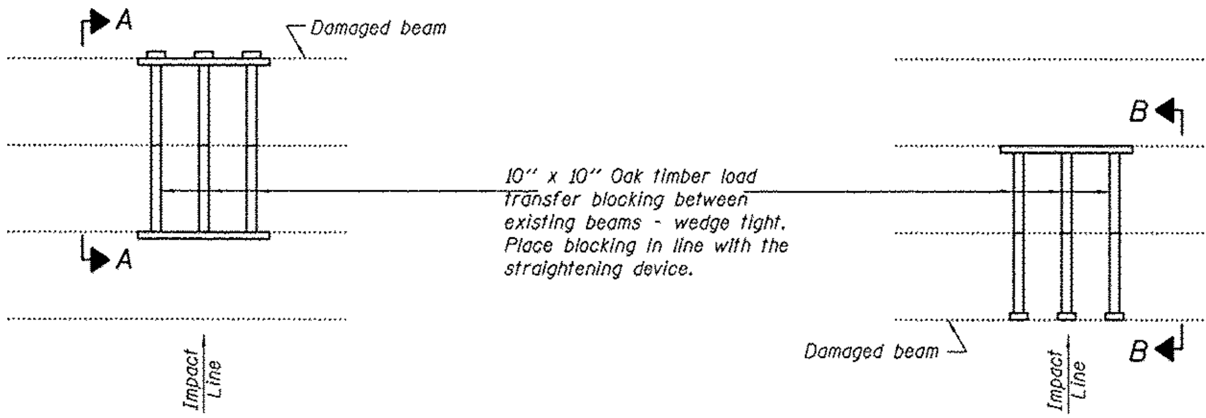
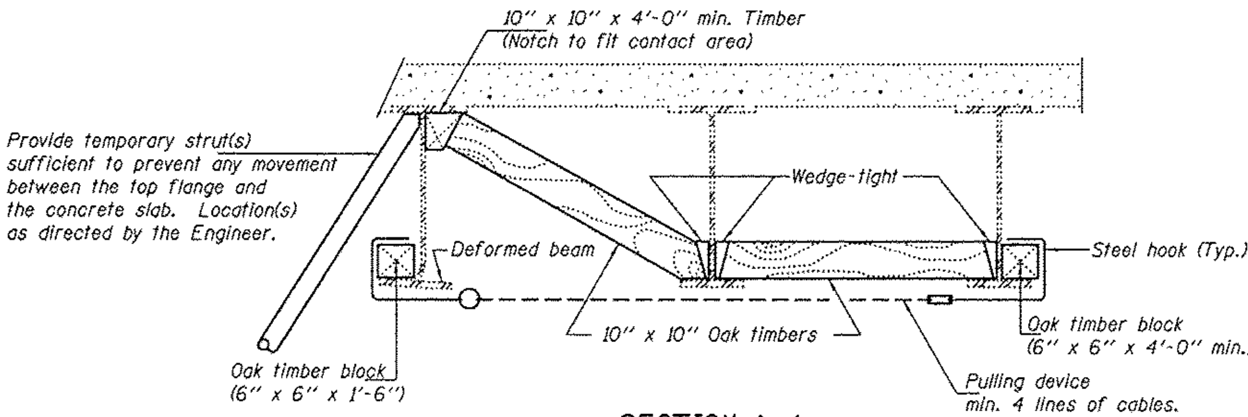


PULLING DEVICE

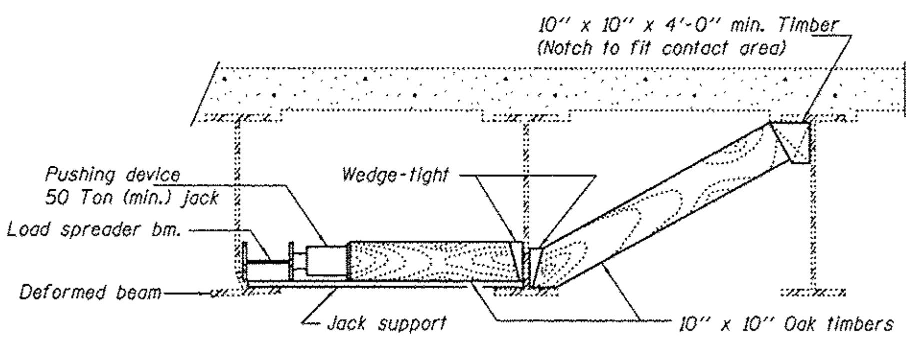
PUSHING DEVICE

PARTIAL PLANS
SUGGESTED BEAM STRAIGHTENING METHODS

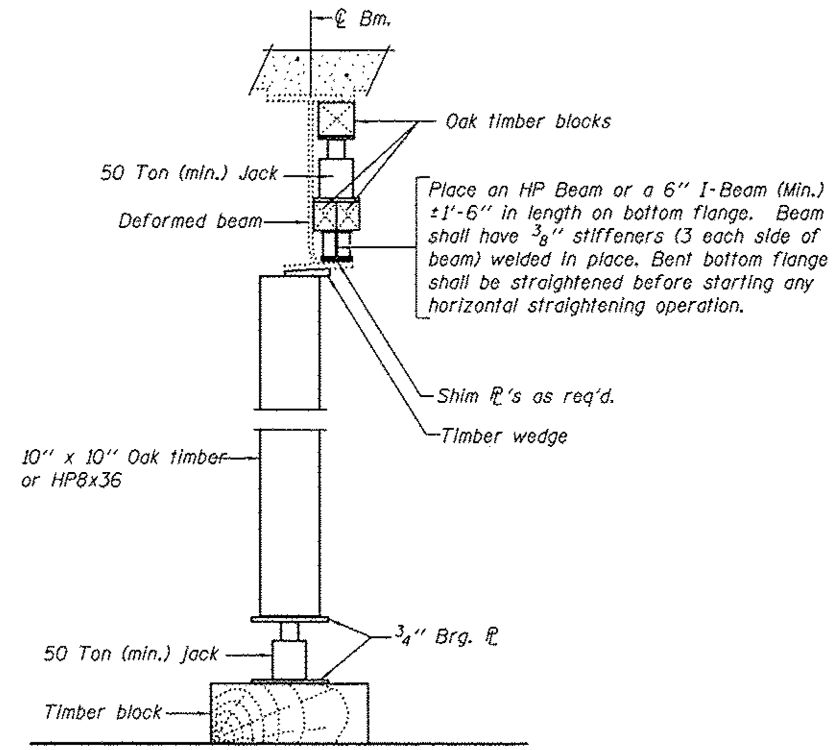
Straightening force shall be maintained on all load transfer blocking during beam straightening.



SECTION A-A

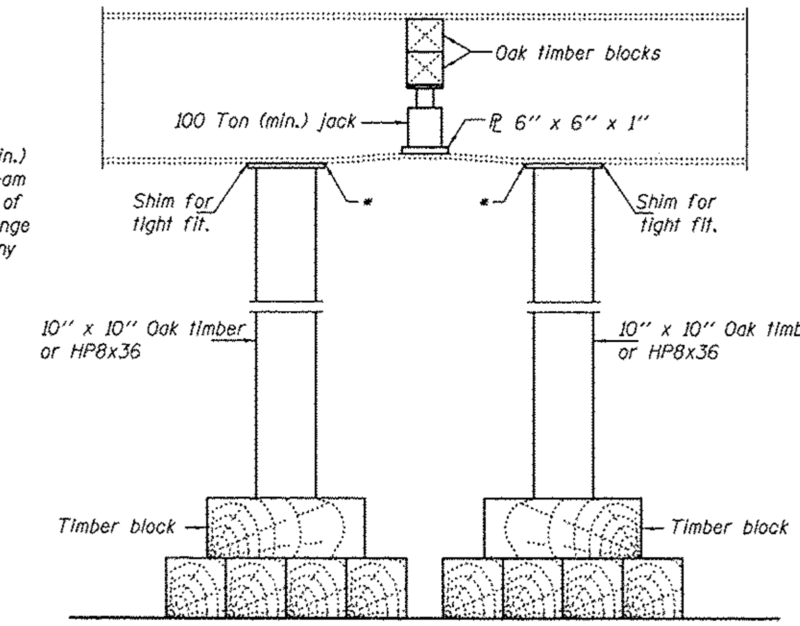


SECTION B-B



SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)

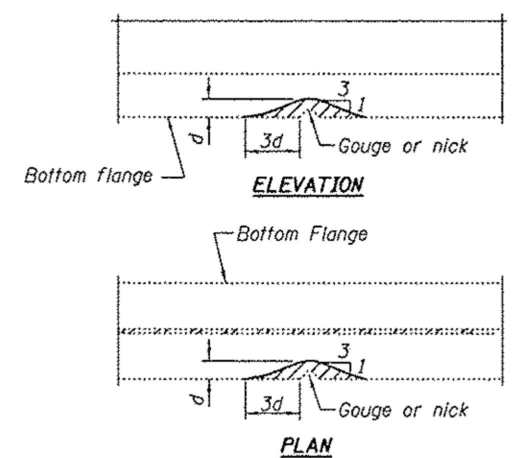


SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

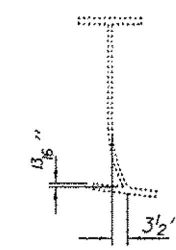
* Edge of plate shall line up with edge of deformation.

Note:
Braces and jack assembly shall be placed on same side of web.
Bent bottom flange shall be straightened before starting any horizontal straightening operations.



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking West)
(Approximate max. deflections)
Deflected length of beam to be straightened is approximately 30'.

REP-1 1-14-2005

DESIGNED VHV	EXAMINED	ACTING ENGINEER OF STRUCTURAL SERVICES	DATE JANUARY 9, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED DAB				
DRAWN baliva	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	
CHECKED VHV DAB			REVISED	

REPAIR DETAILS
SN 049-0050
SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1225	2012-025BR	LAKE	21	10

CONTRACT NO. 60T66

ILLINOIS FED. AID PROJECT