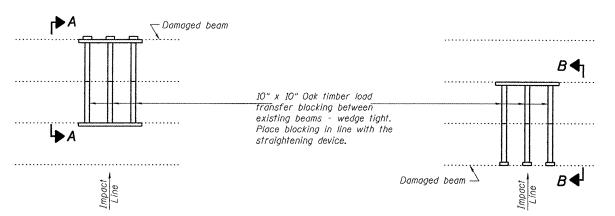
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

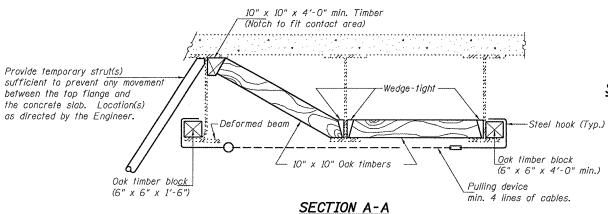


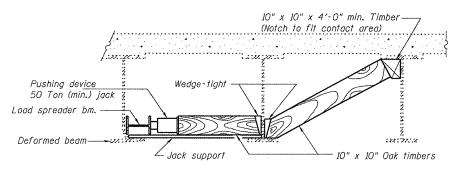
PULLING DEVICE

<u>PARTIAL PLANS</u> SUGGESTED BEAM STRAIGHTENING METHODS

PUSHING DEVICE

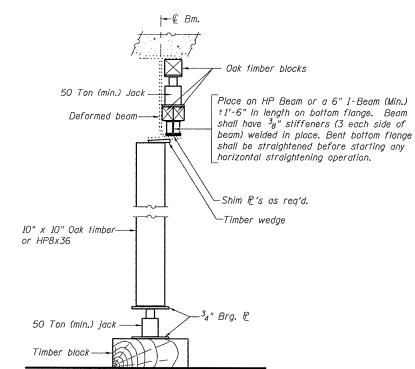
Straightening force shall be maintained on all load transfer blocking during beam straightening.





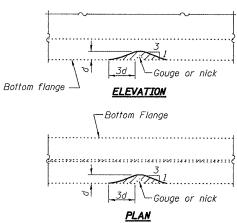
SECTION B-B

[
DESIGNED A.T.H.	April 15, 2008
CHECKED S.J.B.	EXAMINED & Carl Prayry
DRAWN Drew Christopher	PASSED SCALPLE. Anderson
CHECKED A.T.H. S.J.B.	ENGINÉER OF BRIDGES AND STRUCTURES



SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)

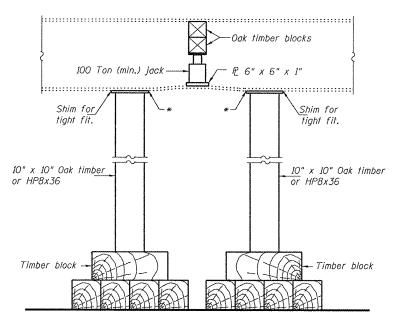


GRINDING DETAIL

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 '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.

ROUTE NO.	SECTION	cou	NTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
FAI 74	44	Tazewell		14	12	4 SHEETS
FEQ. ROAD DIST.	NO. 7	(LLINOIS	FEO. AID PROJECT-			

Contract Number: 68803 ΔΔ D4MCHD2008



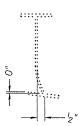
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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.



EXISTING DEFORMATION TO BE STRAIGHTENED

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

BEAM STRAIGHTENING DETAILS

F.A.I. RT. 74

TAZEWELL COUNTY

SN 090-0091

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