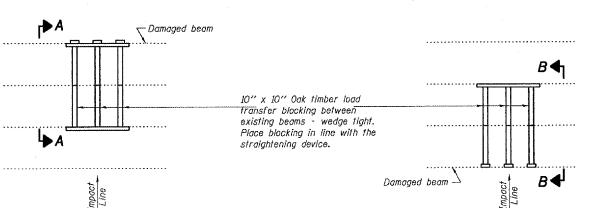
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

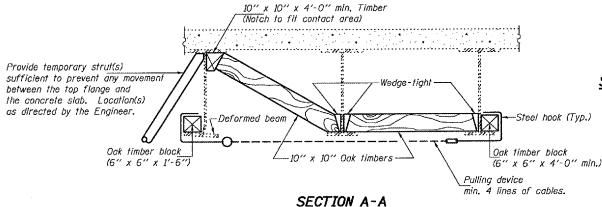


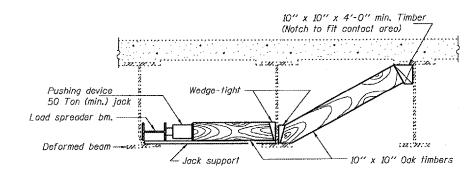
PULLING DEVICE

PARTIAL PLANS SUGGESTED BEAM STRAIGHTENING METHODS

PUSHING DEVICE

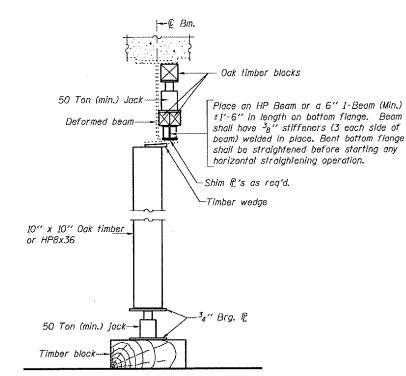
Straightening force shall be maintained on all load transfer blocking during beam straightening.





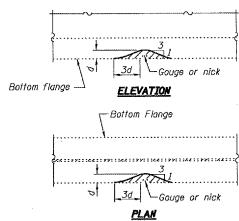
SECTION B-B

DESIGNED	ATH	JANUARY 9, 2007
CHECKED	A JB	EXAMINED & Carl Prayey
DRAWN	baliva	PASSED Relph E. andersa
CHECKED	ATH AJB	ENGINEER OF BRIDGES AND STRUCTURES



SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)

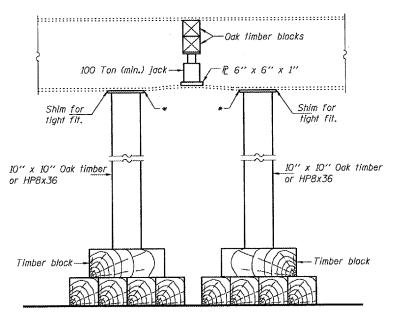


GRINDING DETAIL

Grind existing nicks, gauges 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 pointed 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.	RECTION	COUNTY	TOTAL SHEETS	SHEST NO.	SHEET NO. 2
FA 29		KNOX	11	9	4 SHEETS
FEO. 90AG 0197, NO. 7		ILLINOIS FEG. AID PROJECT-			

Contract Number:



SUGGESTED VERTICAL STRAIGHTENING DETAIL

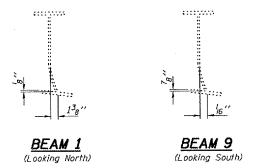
(To correct localized vertical flange deformations.)

* 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

(Approximate max. deflections)

BRIDGE REPAIRS
FA RT. 29
KNOX COUNTY
SN 048-0068

REP-1 1-14-2005