

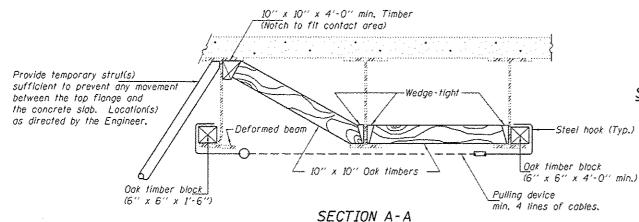
PULLING DEVICE

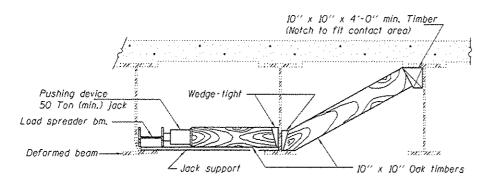
#### PARTIAL PLANS

# PUSHING DEVICE

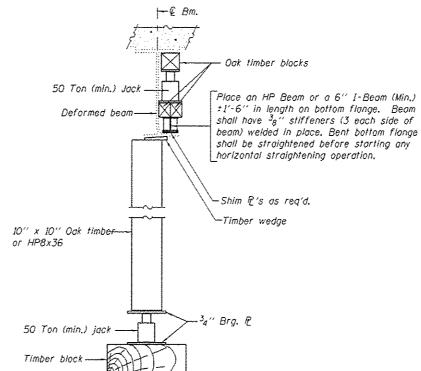
### SUGGESTED BEAM STRAIGHTENING METHODS

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



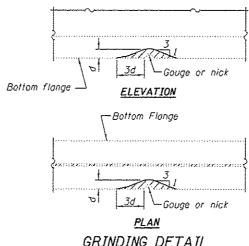


SECTION B-B



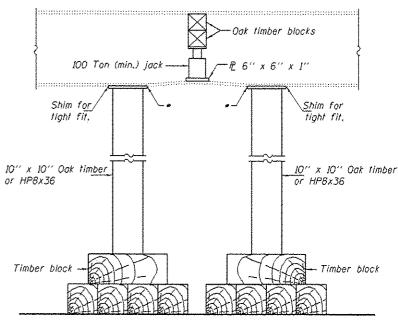
# SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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 \( \frac{1}{4} \) 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.

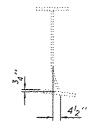


## SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

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

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 East) (Approximate max. deflections) Deflected length of beam to be straightened is approximately 24'.

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DESIGNED	GGE	EXAMINED	Tint A A A A	DATE	NOVEMBER 15, 2013
CHECKED	SMR		ACTING ENGINEER OF STRUCTURAL SERVICES		
ORAWN	baliva	PASSED	A Carl Turer	REVIS	ED
CHECKED	GGE SMR		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVIS	ΕO

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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SHEET	NO.	z	OF	2	SHEETS	

	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
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