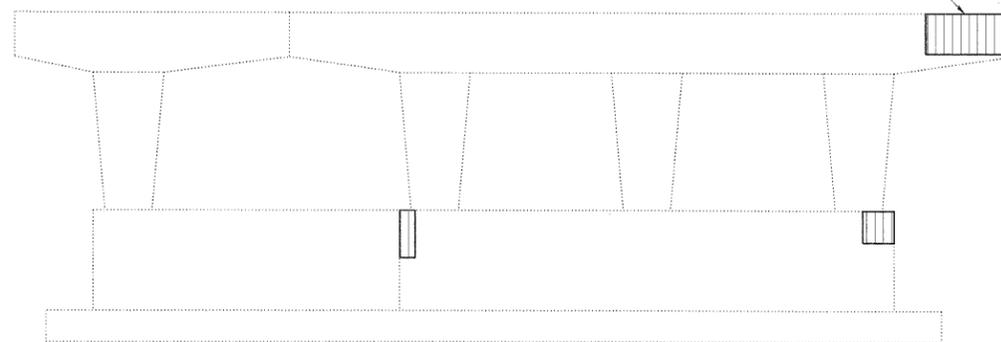


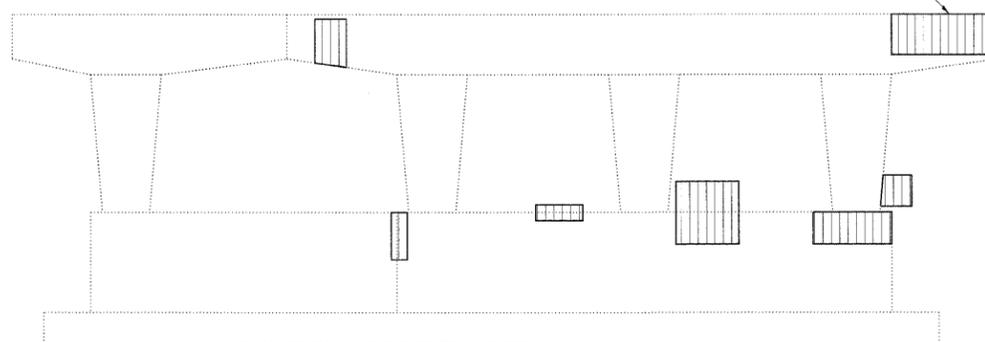
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Temporary Shoring and Cribbing



EAST PIER REPAIRS - EAST FACE

Temporary Shoring and Cribbing



WEST PIER REPAIRS - EAST FACE

BILL OF MATERIAL

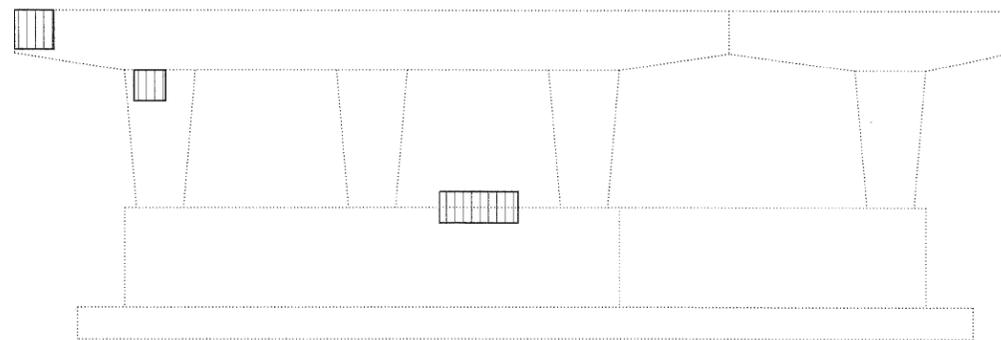
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	219
	Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	4
	Temporary Shoring & Cribbing	Each	3

BEAM REACTIONS (KIPS)

DEAD LOAD	LIVE LOAD	IMPACT LOAD	TOTAL
101.0	55.3	14.8	171.1

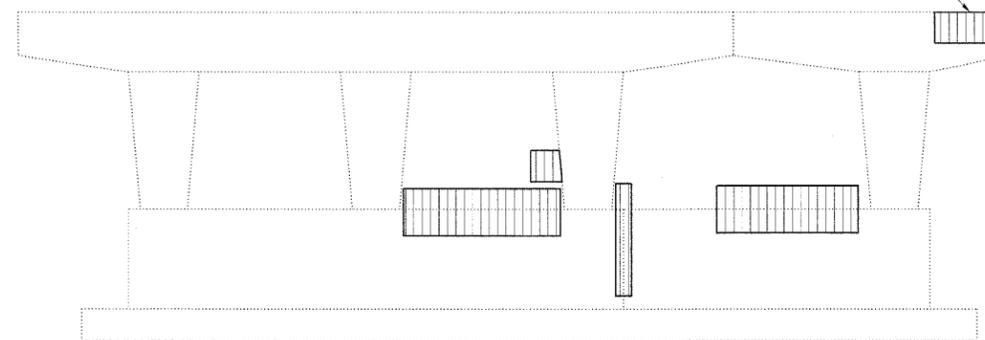
Notes:

- Substructure repair areas are estimated based on IDOT field notes from April 24, 2009.
- Interference is expected from existing conduits. The Contractor shall remove and reerect or temporarily support the existing conduits to complete the work as detailed. When the work is completed the conduits shall be reconnected to the reconstructed abutment or pier utilizing the existing mounting brackets or new mounting brackets. All labor, equipment, and materials necessary for removing and reinstalling or temporarily supporting the existing conduits shall be included in the cost for Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).
- The tabulated beam reactions were taken from the existing construction plans. The Contractor shall verify that the equipment used to support the beams is sufficient to carry these loads in addition to any temporary construction loads.

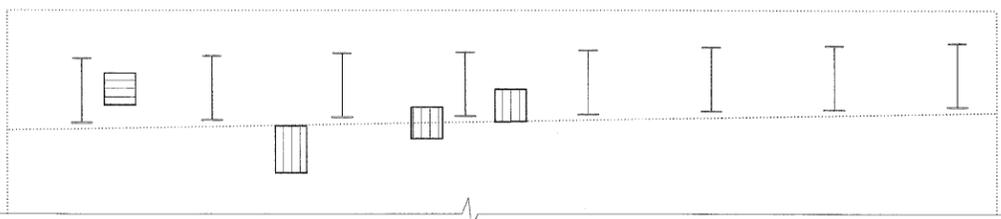


EAST PIER REPAIRS - WEST FACE

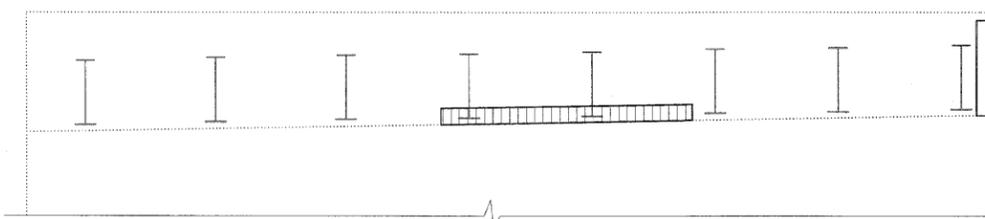
Temporary Shoring and Cribbing



WEST PIER REPAIRS - WEST FACE



EAST ABUTMENT REPAIR



WEST ABUTMENT REPAIR

DESIGNED -	T.JJ
CHECKED -	AAY
DRAWN -	RMG
CHECKED -	AAY

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0460 Job No. 10050

**SUBSTRUCTURE REPAIRS
STRUCTURE NO. 022-0100**

SHEET NO. 9 12 SHEETS	F.A.I. RTE. 290 355	SECTION 22(1, 1-1, 2&3)RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 326
	CONTRACT NO. 60G51				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		