

PROPOSED REPAIR WORK

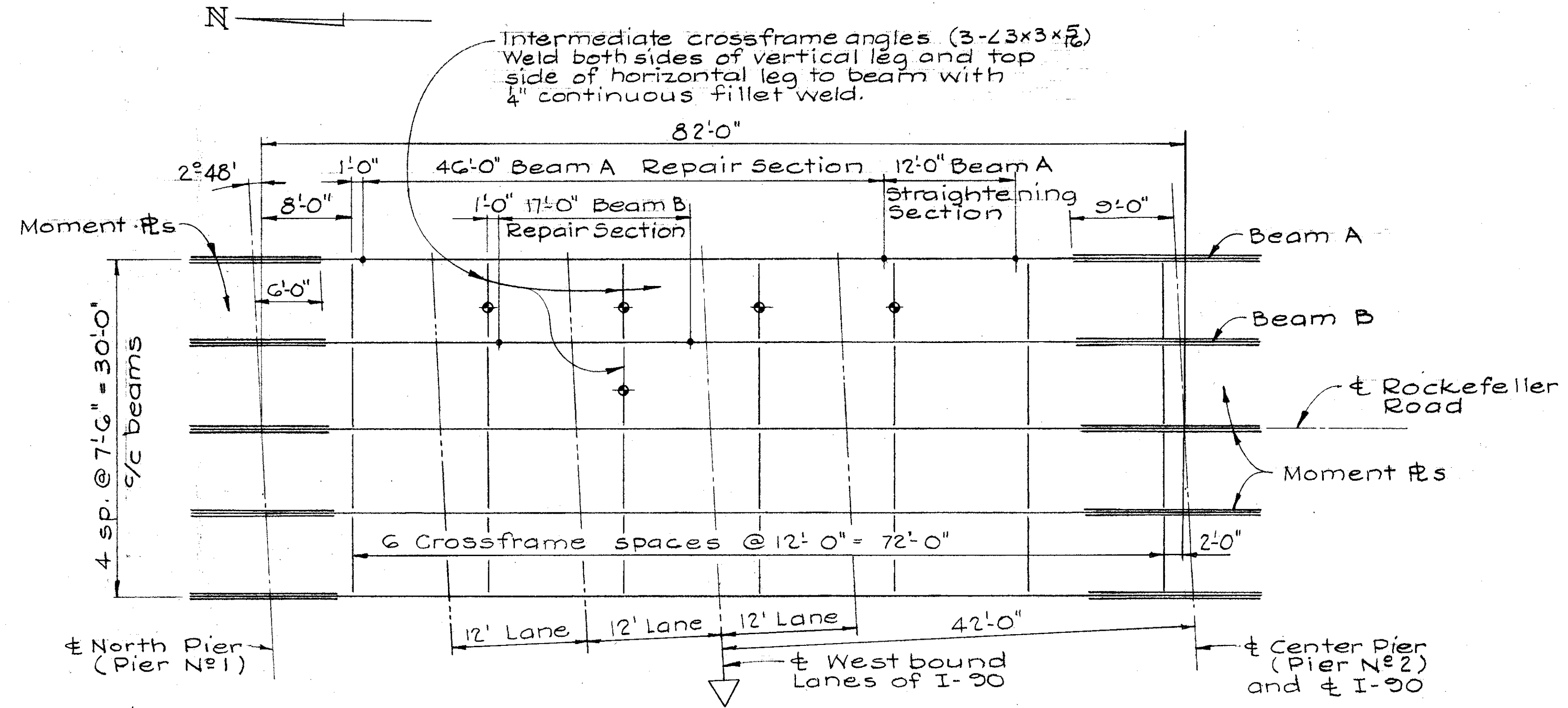
1. Provide for maintenance of traffic on Interstate 90 and close Rockefeller Road as required by the plans.
2. Place shoring under the easterly curb at the support location shown on Section A-A on sheet 2 of the plans and at the longitudinal quarter points and mid-point of the damaged span. Additional shoring shall be placed under the bottom flange of Beam B immediately beyond the limits of the repair of that beam. Jacks shall be used to maintain continuous adjustment throughout the required beam repairs. All jacks shall be raised in increments so that the deck of the structure is supported proportionally at all jacking points.
3. The deck jacking shall raise the superstructure as follows:

Distance from #	North Pier	1/4 Span	1/2 Span	3/4 Span	Center Pier
15'-0"	0	7/8"	1 1/8"	5/8"	0
7'-6"	0	5/8"	3/4"	1/2"	0

Jacks shall have a minimum capacity of twenty (20) tons per support adjacent to Beam A and fifteen (15) tons per support under Beam B. Elevations may be taken on the surfaces of the deck and sidewalk for verifying the jacking dimensions. Deck and sidewalk elevations shall be recorded: (a) prior to applying jacking loads, (b) after jacking is completed, (c) after damaged portions of the beams are removed and prior to readjustment of jacks for replacement of new beam members, (d) after adjustment for replacement of new beam members, and (e) after completion of the beam repairs and removal of the jacks and supports. The jacking records shall be forwarded to the Director for review by the Bureau of Bridges.
4. Flame cut and remove the damaged portion of the existing beams to the limits shown on the plans and remove the damaged crossframes as noted for replacement.
5. Grind the web and fillet of Beam A flush with the bottom of the top flange, which is to remain in place. Prepare the ends of the existing beams for welding as noted on the plans.
6. Insert the beam repair sections, jack into position and weld. Install new crossframes.

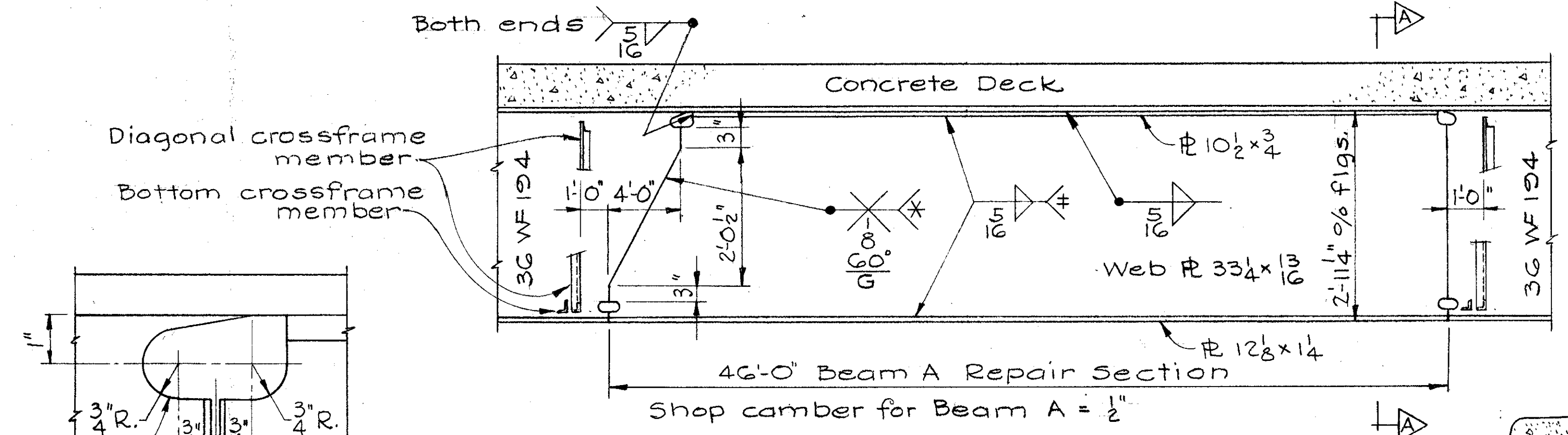
7. Remove the jacks supporting the steel repair sections, but not those supporting the deck dead load and called for under work item 2.
8. Completely fill the void between the top flange of Beam A and the deck concrete with epoxy grout of a consistency and by a method based upon recommendations of the manufacturer.
9. Remove the shoring jacks and shoring.
10. Repair the spalled concrete areas to the original concrete surface line with epoxy mortar of a consistency and by a method based upon recommendations of the manufacturer.
11. Apply one shop coat of paint to all exposed new and existing steel from which the shop coat was omitted, has been removed and/or has become defective due to the repair work.
12. Apply two field coats of paint to all new and existing steel which required a shop coat.
13. Restore lane markings on Interstate Route 90, remove signs and barricades used to maintain traffic and open Rockefeller Road and Interstate Route 90 to normal traffic.
14. Remove temporary pavements and restore all areas of medians, shoulders and berms to their original condition.

The Lump Sum price bid for Item, Special, Repair of Existing Superstructure, as per plan, shall include the cost of all labor, materials, equipment and incidentals necessary to accomplish the above mentioned work of repairing the bridge superstructure.



PART FRAMING PLAN

◆ Denotes damaged crossframes to be replaced with new steel.

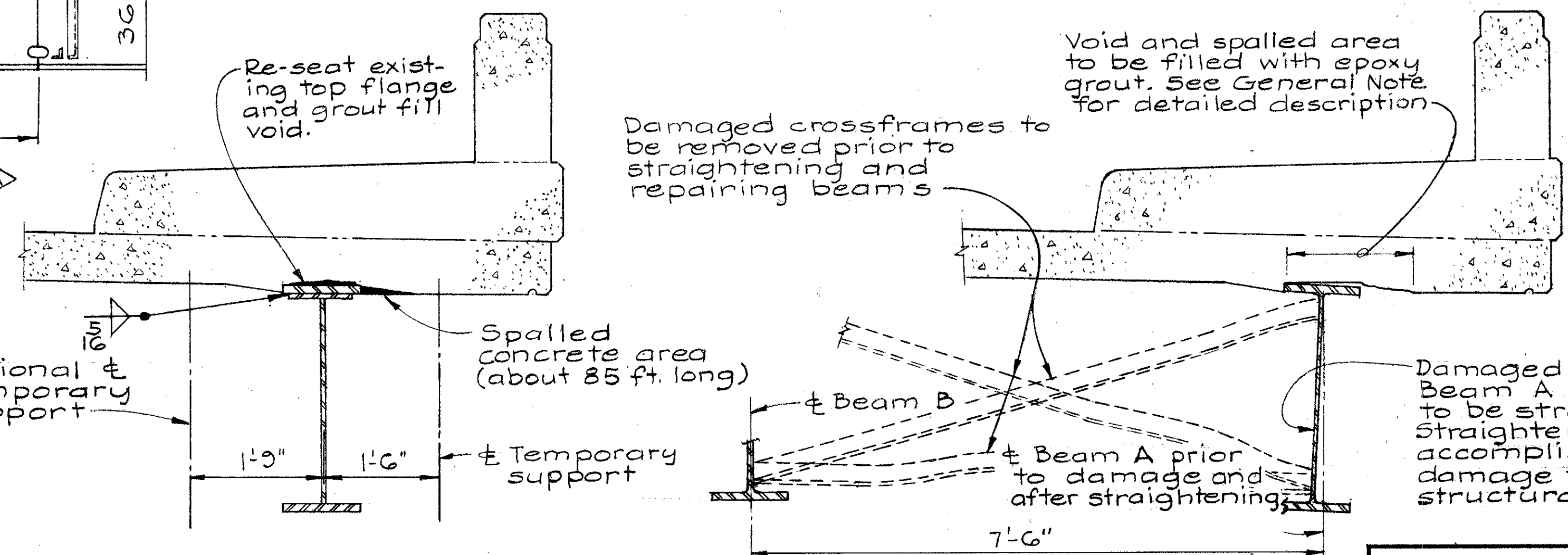


REPAIR SECTIONS

- * Will require Radiographic Examination as per 811.
- † Will require Magnetic Particle Examination as per 811.

PREPARATION OF ENDS OF BEAMS PRIOR TO WELDING

The damaged portion of the existing 36WF194 of Beam A Repair section shall be removed to the limits shown. The remaining steel shall be ground flush with the underside of the top flange. No gouging of the top flange will be permitted. Gouging of the webs and bottom flanges during removal no deeper than 3/8" will be acceptable for either repair section; however, no protrusions will be permitted.



SECTION A-A

SECTION THRU DAMAGED AREA

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

SUPERSTRUCTURE REPAIRS
BRIDGE N° LAK-90-0171
UNDER ROCKEFELLER RD.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
INNES	INNES		HEN	BFG	7-30-70	