

BILL OF MATERIALS		
ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	2570
Temporary Lift Span Support System	Lump Sum	1
Temporary Counterweight Support System	Lump Sum	1
Counterweight Wire Ropes, <b>INSTALL ONLY</b>	Lump Sum	1
Trunnion Bearings, <b>INSTALL ONLY</b>	Lump Sum	1
Trunnion/Sheave Assemblies, <b>INSTALL ONLY</b>	Lump Sum	1

### GENERAL NOTES

- Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.
- Anchor bolts shall be AASHTO M 314 Grade 105, sized as noted.
- All structural steel shall be AASHTO M 270 Grade 50, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for painting of the new structural steel except where otherwise noted. The entire system shall be shop applied. The color of the finish coat for all surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.
- Plans of the original construction and prior rehabilitation contracts are available for review at the IDOT District 6 office in Springfield, Illinois.
- Open fastener holes shall be filled with new, appropriately sized and tightened high strength bolts.
- Total weight of equipment and material loading within each flanking span shall not exceed 20,000 pounds once the counterweight has been supported on the temporary counterweight support system.
- The movable span will not be operated by anyone except Illinois DOT bridge tenders. 48 hours notice must be given to the Department to provide a bridge tender to operate the bridge.
- Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the special provisions shall be included with the appropriate pay item.

### SUGGESTED CONSTRUCTION PROCEDURE

(This is a General Procedure, for additional details of procedures, see sheet nos. 4, 6, 8 and 10 of 14.)

- Install new bearing stiffeners and temporary hardwood blocking supports at the end floorbeam of span 4 over pier 4 and the end floorbeam of span 6 over pier 5.
- Install temporary counterweight support grillage and jacking system on span 4 and span 6.
- Install east and west tower temporary lift span support systems.
- Jack east and west counterweights to relieve tension in wire ropes and to allow for ropes to be removed from the sheaves.
- Remove sheaves, trunnions, trunnion bearings and wire ropes from the east and west towers.
- Remove indicated portion of the tower post on the west tower.
- Install and splice new portion of the tower post.
- Install new sheaves, trunnions, trunnion bearings and wire ropes at the east and west towers.
- Lower the counterweights to allow all weight to be carried by the wire ropes.
- Remove east and west tower temporary lift span support systems.
- Test system for proper balance and operation.
- Remove temporary counterweight grillage and jacking system on span 4 and span 6.
- Remove temporary blocking supports at the end floorbeams of span 4 and span 6. Bearing stiffeners may remain in place.