

Special Specification 4085

Shore or Relocate/Reset Existing Truss Bridge



1. DESCRIPTION

Temporarily shore or relocate/reset existing truss bridge as shown in the plans and this specification. Execute the truss rehabilitation using one of the two approaches described.

2. CONSTRUCTION

Assume any coatings on existing steel contain hazardous materials and remove and dispose of properly as is required to facilitate work.

Use of the following two approaches for executing the truss rehabilitation:

- 2.1. **Shore in Place.** Temporarily support the truss bridge in its current and final location as necessary to facilitate the repairs described in the plans. Use external rigging, temporary supports, and temporary bracing as necessary to support the truss members during the repairs. Do not weld or drill through any existing bridge members that will remain as part of the final structure. Perform any temporary attachment to the truss bridge by clamping or bolting through original rivet holes as approved by the Engineer. Do not flame cut any member that will remain part of the final structure. Any damage caused by the Contractor's operations will be repaired as directed by the Engineer at the Contractor's expense.

Submit shoring plan to the Engineer of Record for review and approval. The shoring plan must be signed and sealed by an engineer licensed in the State of Texas.

- 2.2. **Relocate/Reset.** Temporarily remove existing truss bridge from its original location to another location that permits simpler access to perform repairs. Acceptable locations include the adjacent roadway (provided that landowner access at driveways is not impeded), a contractor yard, a fabrication facility, or adjacent land leased by the Contractor. Reset the truss in the final location after performing most of the repairs. Remaining repairs may be performed on the truss in the final location as indicated in the submitted plan.

Lift and move the truss bridge from the existing location in one piece. The bridge deck may be removed prior to or after the lift and move, provided the corresponding weights are considered in the submitted plan. Provide temporary supports adequate to support the truss during the repairs. Obtain and provide to the engineer documentation for permits, escorts and utility adjustments required to make the move.

Submit a relocate/reset plan to the Engineer of Record for review and approval. The plan must be signed and sealed by an engineer licensed in the State of Texas. Include in the plan details for any bracing or lifting attachments to the original bridge members. Do not weld or drill through any existing bridge members that will remain as part of the final structure. Perform any temporary attachment to the truss bridge by clamping or bolting through original rivet holes as approved by the Engineer. Do not flame cut any member that will remain part of the final structure.

Exercise care when lifting the truss from the supports, transporting the bridge to the new site, and placing the bridge on the new supports. Any damage caused by the Contractor's operations will be repaired as directed by the Engineer at the Contractor's expense.

If both ends of the bridge are lifted at once, all four corners of the bridge must be lifted simultaneously and symmetrically. If only one end of the bridge is lifted at a time, then both corners must be lifted simultaneously and symmetrically.

3. MEASUREMENT

The work as provided for by this specification will be measured by the lump sum.

4. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the price bid for "Shore or Relocate/Reset Existing Truss Bridge." This price is full compensation for all excavation, backfilling, bracing, lifting, moving, escorts, permits, utility adjustments, temporarily supporting, and furnishing all equipment, tools, labor and incidentals necessary to complete the work.