SP-157080
(New)

SPECIAL PROVISIONS
FOR
REPURPOSED STEEL TRUSS RECREATIONAL TRAIL BRIDGES

Woodbury County
TAP-U-7057(686)--8I-97

Effective Date
September 17, 2019

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

157080.01 DESCRIPTION.

A. These specifications describe picking-up, transporting, delivering, assembling, and installing five existing steel truss recreational trail bridge spans. Four of the spans are to be installed over the Floyd River and one span is to be installed over Bacon Creek.

B. One of the existing truss sections must be shortened as shown in the contract documents, prior to assembly and installation.

C. A continuous 2 inch diameter, galvanized rigid steel conduit shall be installed on the four spans over the Floyd River.

157080.02 MATERIALS.

A. The City of Sioux City purchased five pre-engineered steel truss recreational trail bridge spans for a project in 2004. The steel trusses were never installed and are currently being stored at the following locations:

- 1723 18th Street, Sioux City, Iowa - at this location there are two bridge spans stored in four sections, hardware and H beams.
- On S. Lafayette Street, approximately 825 feet south of the intersection with Bluff Road at the northwest end of S. Lafayette Street, in Sioux City, Iowa – at this location there are two bridge spans stored in four sections.
- 1301 Bluff Road, Sioux City, Iowa – at this location there is one bridge span, stored in two sections.
- To access the storage site at 1723 18th Street, the contractor will need to contact Kelly Bach (Public Works Field Supervisor) – Office (712) 279-6929 or Cell (712) 898-4604.

B. The pre-engineered steel trusses were design by “Big R Manufacturing, LLC” according to the 1996 Edition of the AASHTO “Standard Specifications for Highways Bridges” and the loads

shown on the shop drawings. The original shop drawings dated 3/30/2004 with revisions dated 10/21/2004 are included in the plan set “For Information Only”. The quantity and condition of items marked as “LOOSE” in the Bill of Materials cannot be confirmed. Any of these items that are missing or whose condition is deemed unacceptable by the Engineer, shall be replaced in-kind. No additional payment will be made for replacement of “LOOSE” material.

C. The condition of the pre-assembled truss sections, including their wood deck, is presumed to be acceptable to the Engineer. Visual review of materials will be made prior to transportation and installation at site. If during review any part of their condition is deemed unacceptable by the Engineer, it shall be replaced or rehabilitated as directed by the Engineer. The Contractor will be eligible for reimbursement for the labor and materials necessary to restore the truss to an acceptable condition. Any damage to the pre-engineered steel trusses during transportation and installation will be the responsibility of the Contractor. No additional payment will be made for damage during transportation or installation.

157080.03 CONSTRUCTION.

A. Welding.

1. Materials according to AWS.

2. Welders certified according to AWS D1.1.

3. Comply with Article 2408.03, B of the Standard Specifications.

4. Use E70 or E80 series electrodes that have the same weathering characteristics as corrosion-resistance steel, or the gas metal arc welding process (Short Circuiting Transfer) with Carbon Dioxide/Argon shielding gas with ER80-D2 filler material conforming to AWS A5.28.

5. All welds to be visually inspected.

B. Field Splices.
Field connection bolts shall be tightened by the “turn-of-nut method” to obtain proper torque. See Article 2408.03, S, 5, b of the Standard Specifications.

C. Railings.
Railings shall be made to be continuous, with a smooth inside surface and no protrusions or depressions.

D. Conduit.

1. A continuous 2 inch diameter galvanized rigid steel conduit shall be installed on the four spans over the Floyd River to carry a future fiber optic line.

2. The conduit shall be situated on top of the transverse 5 inch by 5 inch by 1/4 inch cross beams and beneath the treated wood deck. It shall be located under the southern edge of the treated wood deck when the trusses are installed.

3. An opening through the 1/2 inch by 6 inch steel plate at the each end of each truss must be provided to accommodate the conduit. Openings may be drilled or cut.

157080.04 METHOD OF MEASUREMENT.
No measurement will be made for repurposing of the five existing steel truss recreational trail bridge spans.

157080.05 BASIS OF PAYMENT.

A. Payment for repurposing the five existing steel truss recreational trail bridge spans will be made at the lump sum contract price.

B. Payment is full compensation for the materials, labor, and equipment necessary to pick-up, transport, deliver, modify, assemble (splice), and install the five truss spans as shown in the contract documents and described in this specification, including the addition of a 2 inch galvanized rigid steel conduit on the four spans over the Floyd River.