

APPENDIX "?"

REMOVAL OF BAILEY/ACROW BRIDGE

DESCRIPTION

1.01 General

This Appendix shall apply to the removal, dismantling, loading, transportation, and stockpiling of the Bailey/Acrow bridge in conjunction with the Standard Specifications for Highway Construction, and the applicable Bailey Uniflote handbook or the Acrow Panel Bridging technical handbooks.

1.02 Contractor's Site Representative

The Contractor's Site Representative shall be experienced with the supervision of the removal and handling of the Bailey/Acrow bridges and shall have the current Bailey Uniflote or Acrow Panel Bridging technical handbook on site for reference.

1.03. Detailed Removal Procedure

The Contractor shall provide, in writing, a detailed removal procedure to the Ministry Representative for approval at least two weeks prior to the scheduled removal of the Bailey/Acrow bridge. Removal shall not commence without the Ministry's approval of the removal procedure.

The detailed removal procedure shall comply with the instructions and recommendations in the current Bailey Uniflote or Acrow Panel Bridging technical handbooks. The following items shall be addressed in the procedure, but not limited to as a minimum:

- Construction schedule.
- Contractor's Site Representative, manpower, and equipment.
- Site layout for base plates/mudsills for the roller locations, equipment, crane locations (if applicable), delaunching bridge, component handling, and loading out.
- Compaction of bearing soils, setting of alignment and elevations of base plates for roller bearings.
- Delaunch configuration for the delaunching nose and the Bailey/Acrow bridge to be removed.
- Method of delaunching including load application points.
 - Removal procedure if delaunching is not applicable.
 - Applicable weights during delaunching or lifting.
 - Timber deck and ballast wall removal method.

The Ministry's review of the removal procedure shall not relieve the Contractor of the responsibility for the safe removal of the Bailey/Acrow bridge.

MATERIALS

2.01 Supply of Materials

All materials and components of the bridge shall remain the property of the Ministry.

The Ministry will loan to the Contractor the following components for the removal of the Bailey/Acrow bridge:

- Delaunching nose components
- Tapered chords as required
- Launching roller bearings and base plates

These items shall be picked up by the Contractor at the designated Ministry storage yard(s) or from suppliers.

The Contractor shall supply dunnage for the handling and site storage of the Bailey/Acrow components. Components shall not be handled or stored directly on the ground. The Contractor shall supply all other materials, equipment and labour to complete the work.

2.02 Initial Bridge Inspection

The Ministry Representative and the Contractor shall jointly inspect and record the condition of the bridge and delaunching components prior to the removal of the bridge. The Contractor shall be responsible for the repair or replacement of any components damaged following this inspection and prior to the Ministry's final acceptance of the work.

CONSTRUCTION

3.01 Site Preparation

The Contractor shall prepare the site in conformance with:

- Applicable Bailey/Acrow handbooks
- Environmental regulations

The Contractor shall prepare the approach grades to the profile required for the delaunching of the bridge. The Contractor shall set the alignment, compact the bearing soils to the required elevations of the base plates for the roller and delaunching roller bearings to ensure stability.

Removal

3.02 Timber Decking

Timber decking shall be removed to midspan of the bridge. Removal of the timber decking shall be completed with the least possible damage to the timber. Timber damaged due to unapproved removal procedures shall be replaced with new timber at the Contractor's expense.

The Contractor shall package and band the timber decking and ballast wall material. Timber material, bolts, spikes, lag screws, etc. which the Ministry Representative deems as unsuitable for salvage shall be disposed of by the Contractor.

3.03 Delaunching Nose

The delaunching nose configuration and assembly shall be in accordance to the instructions in the Bailey/Acrow handbooks.

3.04 Removal of Bridge

The Contractor shall remove the Bailey/Acrow bridge as specified in the detailed removal procedure.

During delaunching, each delaunching roller bearing shall be monitored by the Contractor's Site Representative for settlement or other problems.

Following the removal of the bridge the Contractor shall regrade the ends of the bridge end fills to slopes of 1.5 horizontal to 1 vertical. The Contractor shall cleanup and regrade the approach grades and work area as specified in the Special Provisions and/or as directed by the Ministry Representative.

3.05 Loading, Transportation, Stockpiling and Final Inspection

Prior to loading, the Bailey/Acrow bridge and delaunching nose components shall be packaged and/or banded. Each type of component shall be packaged and labelled separately with the type of component and number recorded. Small components such as bolts shall be placed in steel containers and all threaded fittings shall be treated with WD40 or equivalent.

The Contractor shall load and transport the bridge components, including timber, to the Ministry designated storage yard.

The Contractor shall unload and stockpile the components and timber at the locations designated by the Ministry. The Ministry shall provide dunnage for the stockpiling of the Bailey/Acrow components.

Upon completion of the stockpiling, the Contractor shall provide the Ministry with an inventory of the components.

PAYMENT

4.01 Payment

Payment for the Bailey/Acrow removal will be made at the lump sum price bid. Payment shall include the detailed removal procedure, inspections, site preparation, compaction of bearing soils, setting of alignment and elevations of base plates for roller bearings, monitoring, removal, dismantling, loading, transportation, and stockpiling of the Bailey/Acrow metal components, timber decking and ballast walls, cleanup and quality control.