

723-R-602 REINFORCED CONCRETE THREE-SIDED STRUCTURE REQUIREMENTS

(Adopted 06-21-12)

The Standard Specifications are revised as follows:

SECTION 723, BEGIN LINE 94, INSERT AS FOLLOWS:

723.03 General Requirements

Excavation and disposal shall be in accordance with the applicable requirements of 206. The areas designated for waterproofing shall be waterproofed in accordance with 702.23. All underground drains encountered during excavation for the structure shall be perpetuated as dictated by field conditions. Drainage openings through masonry shall be in accordance with 702.16. Handling of three-sided structures shall be in accordance with 907.05. Handling of wingwalls and spandrel walls shall be in accordance with 907.06.

For precast three-sided structures, the manufacturer's representative shall provide technical instruction and on-site technical assistance to the Contractor during the erection of the members.

SECTION 723, BEGIN LINE 119, DELETE AND INSERT AS FOLLOWS:

A headwall with ~~bridge railing~~ *guardrail* mounted on top, ~~and the anchorage of the headwall or spandrel wall to the structure section, or a moment slab with bridge railing,~~ shall be designed for the bridge railing test level shown on the plans.

SECTION 723, BEGIN LINE 163, INSERT AS FOLLOWS:

(c) Working Drawings

Working drawings shall be submitted in accordance with 105.02 for fabrication of a precast or cast-in-place reinforced concrete three-sided structure, precast or cast-in-place reinforced concrete three-sided structure extension, precast or cast-in-place headwalls, precast or cast-in-place wingwalls, and precast or cast-in-place spandrel walls. The working drawings shall include all details, dimensions, and quantities necessary to construct the structure, headwalls, wingwalls, or spandrel walls and shall include, but not be limited to, the following information.

1. Structure span and rise.
2. Structure section details showing all concrete dimensions and reinforcement requirements. *An analysis of the precast segment modeled as a simple span and designed in accordance with AASHTO LRFD Bridge Design Specifications Section 5.7.3. This analysis will demonstrate that the precast segment is designed to withstand the forces of erection.*

SECTION 723, BEGIN LINE 378, DELETE AS FOLLOWS:

~~723.13 Sealing~~*Blank*

~~Sealer shall be applied in accordance with 709 on the top surface of the structure section, headwalls, and wingwalls. It shall extend 5 ft (1.5 m) vertically down the exterior of each vertical leg or 5 ft (1.5 m) vertically down both faces of each headwall or wingwall or to the bottom of each, whichever is less. Sealer material shall not be placed in keyway joints, if present. The sealer shall be provided for the full length of the~~

structure. Surface preparation and application procedures shall be as recommended by the sealer manufacturer.
