

Section 513—Precast Reinforced Concrete Box Culverts Barrel Sections and End Sections

513.1 General Description

General Provisions 101 through 150.

513.1.01 Definitions

General Provisions 101 through 150.

513.1.02 Related References

A. Standard Specifications

[Section 506—Expanded Mortar](#)

[Section 812—Backfill Materials](#)

[Section 830—Portland Cement](#)

[Section 834—Masonry Materials](#)

[Section 843—Concrete Pipe](#)

[Section 848—Pipe Appurtenances](#)

[Section 852—Miscellaneous Steel Materials](#)

[Section 853—Reinforcement and Tensioning Steel](#)

B. Referenced Documents

[SOP 19](#)

[QPL 4](#)

513.1.03 Submittals

General Provisions 101 through 150.

513.2 Materials

A. Acceptance Requirements

1. Backfill Material sampling requirements are described in [Section 207](#) and [Section 208](#) of the Sampling, Testing, and Inspection information.
2. Precast Concrete Box Culvert Barrels received on the Project are stamped according to Class A Plants, Certification and Quality Control Program.

The program is described in the [Standard Operating Procedure 19](#). Each Class A plant is required to submit a quality control program.

Barrels are acceptable if they meet the following requirements:

- The units are produced at one of the certified plants listed on [QPL 4](#).
- The units bear the official plant stamp as indicated on [QPL 4](#).
- An acceptable signed shipment report Form 619.

The Engineer is not required to acknowledge receipt of acceptable units from approved Class A Plants. Approved Class A Plants will submit Form 619 directly to the [Office of Materials and Research](#) for each shipment of material.

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If the Engineer finds any member damaged during shipment that is not acceptable, the Engineer shall reject the damaged member and ensure that it is not incorporated into the work.

513.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

513.3 Construction Requirements

General Provisions 101 through 150.

513.3.01 Personnel

General Provisions 101 through 150.

513.3.02 Equipment

General Provisions 101 through 150.

513.3.03 Preparation

General Provisions 101 through 150.

513.3.04 Fabrication

General Provisions 101 through 150.

513.3.05 Construction

General Provisions 101 through 150.

513.3.06 Quality Acceptance

General Provisions 101 through 150.

513.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

513.4 Measurement

General Provisions 101 through 150.

513.4.01 Limits

General Provisions 101 through 150.

513.5 Payment

General Provisions 101 through 150.

513.5.01 Adjustments

General Provisions 101 through 150.