

**TECHNICAL SPECIFICATION 310  
PIPE BULKHEADS**

310.1 SCOPE OF WORK

This technical specification covers the furnishing of all labor, materials, testing, submittals, tools, and equipment necessary to construct bulkheads in pipes or existing drainage structures, in accordance with the plans or as directed by the Engineer.

310.2 MATERIALS

Materials for this work shall conform to the applicable provisions and the requirements of Form 817, Sections M.08.02 and M.11.04.

310.3 SUBMITTALS

The following submittals shall be submitted to the Engineer for review and approval prior to installation:

- Material certification indicating all brick, concrete building brick, and masonry concrete units conform to the requirements of Form 817, Section M.08.02.
- Material certifications for all pre-cast concrete
- Material certifications for all metal structures
- Label or manufacturer's cut sheet for mortar

310.4 CONSTRUCTION METHODS

All masonry units shall be laid in full mortar beds.

All bulkheads shall be constructed using as a minimum, 2 layers of brick within pipes or shall be a full wall thickness of the structures being repaired.

The entire outside surface area of the bulkhead shall be parged with a minimum of 1/2 inch thickness of mortar. Backfill shall only be accomplished after inspection and approval of the bulkhead by the Engineer.

310.5 MEASUREMENT

Measurement of this item will be based on the actual number of bulkheads completed and accepted as shown on the plans, or as ordered by the Engineer.

310.6 PAYMENT

Payment for this item will be based on the contract unit price for Each bulkhead, completed and accepted in place including all labor, materials, testing, submittals, tools, and equipment necessary to complete the work as specified.

PAY ITEM	PAY UNIT
Pipe Bulkhead	EA.