

**TECHNICAL SPECIFICATION 400
CONCRETE ABUTMENTS, ENDWALLS, AND RETAINING WALLS**

400.1 SCOPE OF WORK

This technical specification covers the furnishing of all labor, materials, testing, submittals, tools, and equipment necessary to construct concrete abutments, endwalls, and retaining walls at locations indicated on the plans, in accordance with dimensions and details shown, or as directed by the Engineer.

400.2 MATERIALS

Unless otherwise noted, concrete shall be Class C conforming to Form 817, Section, M.03. Reinforcing steel shall conform to Form 817, Section M.06.01. Processed aggregate base shall conform to Technical Specification 210 – “Processed Aggregate Base”, medium gradation.

400.3 SUBMITTALS

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

- Concrete specifications from supplier
- Material certification for all pre-cast concrete
- Gradation test results for processed aggregate

400.4 CONSTRUCTION METHODS

Work under this item shall include excavation, dewatering, placement of base material, installation of form work, reinforcing steel and concrete, placement of compacted backfill and any other incidentals necessary for construction of concrete abutments, endwalls, and retaining walls. Forms shall be smooth and free of dirt, old concrete, holes, splinters or other defects which, in the opinion of the Engineer, would produce an inadequate finish or prevent concrete from being uniformly distributed throughout the form work. All exposed corners shall be chamfered and the finished concrete shall be smoothed by accepted finishing methods. All other construction methods shall conform to Form 817, Section 5.06.03 as applicable.

400.5 MEASUREMENT

Measurement for this item will be based on the number of cubic yards of concrete in place.

400.6 PAYMENT

Payment for this item will be based on the unit price per Cubic Yard of concrete, placed and accepted, including all labor, materials, testing, submittals, tools, and equipment necessary to complete the work as specified.

PAY ITEM	PAY UNIT
Abutment	C.Y.
Endwall	C.Y.
Retaining Wall	C.Y.