

SECTION 02242

CLAY OR FLOWABLE MORTAR FILL FOR CUTOFF WALLS

PART 1 - GENERAL

1.01 SCOPE

The work covered by this section includes furnishing all labor, equipment, and materials to form a cutoff consisting of flowable mortar fill or clay material at the location shown on the Drawings or as directed by the Engineer.

PART 2 - PRODUCTS

2.01 MATERIALS FOR FLOWABLE MORTAR FILL

A. Materials used in this construction shall meet the following requirements:

Material	Specification
Portland Cement Type 1	AASHTO M 85
Fly Ash, Class C or Class F	AASHTO M 295
Water Potable	
Chemical Additives	AASHTO M 194

B. Fine aggregate shall be well graded from coarse to fine and when tested by means of laboratory sieves, shall conform to the following requirements:

Sieve Size	Total Percent Passing by Weight
3/4-inch	100
No. 4	95-100
No. 16	50-90
No. 50	10-30
No. 200	0-10

2.02 PROPORTIONING FOR FLOWABLE MORTAR FILL

A. Flowable mortar shall be proportioned as follows:

Material	Per Cubic Yard
Portland Cement, Type 1	100 lbs. (maximum)
Fly Ash, Class C or F	250 lbs. (minimum)
Fine Aggregate	2,800 lbs.
Water	60 gals. (approximate)

- B. The above proportions may be adjusted by the Engineer to obtain the consistency required for satisfactory flow. Consistency shall be determined as follows:

Place an open-ended cylinder (pipe) 3 inches in diameter by 6 inches in heights in an upright position on a smooth, level surface. Fill the cylinder with a representative sample of the flowable mortar proposed for use. Remove the cylinder by lifting it straight up thus allowing the sample to diffuse on the smooth, level surface. the flowable mortar should diffuse into a circular shape having an approximate diameter of not less than 8 inches.

2.03 FOR CLAY CUTOFF WALL

- A. Clay material shall have no organic material.
- B. Clay material shall be compacted to 95 percent Standard Proctor.

PART 3 - EXECUTION

3.01 GENERAL

- A. Flowable mortar shall be used where cutoffs are required and the area is in streets, alleys, across sidewalk and driveways, and at any other place subject to vehicular traffic or other superimposed loads.
- B. Installation of cutoffs shall be according to "Backfilling Trenches" in Section 0220, "Earthwork."
- C. The flowable mortar shall be covered or otherwise protected while in the plastic state. Backfill shall not be placed on the flowable mortar prior to final set or hardening as determined by the Engineer.
- D. Cutoff material shall be placed from bottom of trench to top of ground.

END OF DOCUMENT