

**SECTION 03500**  
**GROUT FILL ABANDONED SEWER PIPELINES**

**PART 1 - GENERAL**

**1.01 GENERAL**

- A. This section covers the materials and procedures used in grout filling abandoned sewer pipelines with a lightweight, pumpable cementitious mix.

**1.02 RELATED WORK**

- A. Section 02220 - Excavation, Backfilling, and Compacting
- B. Section 02730 - Sanitary Sewer Pipelines

**1.03 SUBMITTALS**

- A. Submit to the Engineer of Record for review and approval all materials and procedures to be used in grout filling of abandoned lines.

**PART 2 - PRODUCTS**

**2.01 CEMENTITIOUS GROUT**

- A. Cementitious grout shall consist of a preblend of lightweight aggregate, cement, fly ash and admix to prevent segregation and promote expansion upon setting. Loose bulk density for the dry mix materials shall be 30 to 35 pounds per cubic foot. Grout shall equal or exceed Strong-Seal Grout 250 - Product Code 2133 and shall be packaged in 2 cubic foot bags.

## **2.02 FLOWABLE FILL**

- A. Flowable fill shall conform to Section 206 – Flowable Select Material of the Arkansas State Highway and Transportation Department’s Standard Specifications for Highway Construction, latest edition.

## **2.03 WATER**

- A. Potable water free from injurious amounts of acids, alkalies, oils, sewage, vegetable matter and dirt shall be used.

## **PART 3 - EXECUTION**

### **3.01 GENERAL**

- A. Components shall be combined and thoroughly mixed in an approved mixer to a uniform pumpable mix. Equipment shall be of special design to insure proper mixing in as short a duration as possible. A water meter or measuring tank shall be utilized to insure that a correct and consistent mix is produced for pumping and flow to fill voids. Mixing and pumping shall be continuous and at such a rate as to insure that voids are filled prior to setting of mix. A pressure gauge shall be used to insure a continuous uniform flow of high quality grout without shutdowns or delays.

**END OF SECTION 03500**