

Section 02320S

UTILITY BACKFILL MATERIALS

*The following supplements modify Section 02320 Utility Backfill Materials. Where a portion of the Specification is modified or deleted by this Supplementary Specification, the unaltered portions of the Specification shall remain in effect.*

PART 1 GENERAL

1.1 SECTION INCLUDES

Add line number B, 9.

B. Utility Backfill Materials

9. Fast Setting Flowable Fill

1.2 DEFINITIONS

Add paragraph K.

K. Flowable Fill: A low viscosity, fast setting (less than 45 minutes), non-settling product with a 10-20% cementitious material and 1-3% set admixture, generating between 100-200 psi compressive strength at 28 days. Material should set between 20-30 psi (as measured by a soil penetrometer) within 30-45 minutes or measurable by supporting foot traffic within such time. Material will be placeable under water. Material must be used in areas where in-place density testing of other backfill materials is not feasible or where the clear distance between outside of concrete box sewer and inside of trench support system is less than three feet.

1.3 REFERENCES

Add Item M

M. ASTM 4832-02 – Standard Test Method for Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders.

1.4 SUBMITTALS

Add Item F

F. Submit mix design for Fast Setting Flowable Fill for approval.

1.5 TESTS

Add Item C

C. Perform tests for Fast Setting Flowable Fill (CLSM) in accordance with ASTM 4832-02.

PART 2 PRODUCTS

2.1 MATERIALS CLASSIFICATIONS

Add Item C

- C. Well graded sand or 3/8 graded sand and aggregate material with Fineness Modulus from 3.0 to 3.5. Class C Flyash as per ASTM C-618. Admixture is required to control set.

PART 3 EXECUTION

3.1 SOURCES

Add Item F

- F. Any material supplier that can provide specified material as described.

3.2 MATERIAL HANDLING

Add Item E

- E. Material should be delivered in volumetric mixing equipment and blended at the site because of the set time of the product.

3.3 FIELD QUALITY CONTROL

Add Item C

- C. Set time on product is indicative of proper non-settling material. An allowance of foot traffic on material within 35 minutes is a good field check. Samples can be obtained and tested as per ASTM 4832-02.

END OF SUPPLEMENT

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