SECTION 036000 – GROUTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification sections, apply to this section.

1.2 SUMMARY

A. This section includes the furnishing and placement of cementitious grout for drilled-in anchor bolts, drilled-in reinforcing dowels, and the like.

1.3 REFERENCES

A. Except as herein specified or as indicated on Drawings, the work of this section shall comply with the following:

1. ASTM:
   a. C939 - Flow of Grout for Preplaced Concrete (Flow Cone Method).
   b. C1107 - Packaged Dry Hydraulic-Cement Grout (Nonshrink).
   c. C1181 - Compressive Creep of Chemical-Resistant Polymer Machinery Grouts.
   d. C1339 - Flowability and Bearing Area of Chemical-Resistant Polymer Machinery Grouts.

2. Corps of Engineers: CRD C621.

1.4 SUBMITTALS

A. Product Data or manufacturer's descriptive literature, including surface preparation and installation instructions.

B. Shop Drawings to include drawing setting locations, templates, and directions for installing anchor bolts and other anchorages.

1.5 QUALITY ASSURANCE

A. Use only experienced tradesmen for the work of this section.

B. Test for flow consistency of 25 to 30 seconds in accordance with ASTM C939 at 30 minutes extended working time at temperature extremes between 45 and 90 degrees F.
PART 2 - PRODUCTS

2.1 MATERIALS

A. Non-metallic shrinkage-resistant grout: Premixed, non-metallic, non-corrosive, non-staining, product containing selected silica sands, portland cement, shrinkage compensating agents, plasticizing and water-reducing agents complying with CRD C621 and ASTM C 1107, Grade B, with minimum compressive strength of 6,000 psi at 28 days:

1. Subject to compliance with requirements, provide one of the following:
   a. "Supreme Grout", Cormix Inc.
   c. "Euco N.S.", Euclid Chemical Co.
   d. "Crystex", L&M Construction Chemicals, Inc.
   e. "Masterflow 713", Master Builders.
   g. "Set Non-Shrink", Set Products, Inc.

PART 3 - EXECUTION

3.1 MIXING GROUT

A. Add only potable water and use mechanical mixer for minimum of 3 minutes.

B. Maintain proper curing temperature between 45 and 90 degrees F.

C. Comply with manufacturer’s instructions.

3.2 INSTALLATION

A. Blow or vacuum out loose particles and dust.

B. Dampen walls of the hole with a swab to ensure good bonding dust free surface.

C. Pour or place small amount of grout in hole and work bolt or dowel in and out to eliminate air pockets.

D. Fill balance of hole.

E. Allow to cure.

END OF SECTION 036000