ITEM 17502.9503 M - LOW STRENGTH SLURRY BACKFILL

DESCRIPTION

The work shall consist of furnishing and placing a slurry backfill composed of fly ash, cement and water as shown on the plans or as directed by the Engineer, in writing, and in accordance with this Specification. This slurry backfill material shall have a 28 day compressive strength of between 275 kPa and 965 kPa.

MATERIALS

The fly ash shall be tested for toxicity pursuant to a testing protocol approved by New York State Department of Environmental Conservation (NYSDEC) and certified to be non-toxic. The Engineer shall be provided with a copy of documentation issued by NYSDEC attesting to its conformance with applicable NYSDEC rules and regulations.

The materials used for slurry backfill material shall meet the requirements of the following subsections:

Portland Cement, Type 1 or Type 2	701-01
Water	712-01

Fly Ash shall conform to the chemical and physical requirements for mineral admixture, Class F listed in A.S.T.M. C618 including Table 2 (except for Footnote A). The loss on ignition shall be waived.

CONSTRUCTION DETAILS

Prior to mixing of any slurry backfill material the Contractor shall submit to the Deputy Chief Engineer, Technical Services results of laboratory tests, or results of tests made previously on slurry backfill used for other work. Test results shall show source and type or class of materials, batch proportions and conformance to the strength requirement.

All equipment for this work shall be subject to approval of the Engineer at all times. No work under this section will be permitted until all equipment and the processing facilities are established, inspected and approved.

The materials shall be mixed at a stationary mixing plant. The mixer shall be either a continuous or a batch type plant, designed to accurately proportion either by volume or by weight, so that when the fly ash material and cement are incorporated in the mix, a thorough and uniform mix will result. The mixer shall be capable of providing accurate control at all times of the amount of fly ash, cement and water entering the mixer per time interval. The mixer shall be equipped to mechanically interlock the fly ash feed with the cement feed, such that the uniformity of the mixture is assured at all times.

The mix may be transported in open haul units when the material is placed within 30 minutes of the end of mixing. Material placed in excess of 30 minutes after the end of mixing shall be transported in a rotating drum unit capable of 2 - 6 rpm.

Cylinders shall be cast in accordance with Materials Method 9.2 to verify that compressive strength is within the specified limits. The frequency of test specimens will be determined by the Regional Soils Engineer.

The method of placing of slurry backfill material shall be as approved by the

Engineer.

The slurry backfill material shall be accepted on the basis of inspection and approval by the Engineer.

METHOD OF MEASUREMENT

Payment for slurry backfill material will be made for the number of satisfactorily placed cubic meters computed between the payment lines shown on the plans or from payment lines established in writing by the Engineer.

BASIS OF PAYMENT

The unit price bid per cubic meter include the cost of furnishing all labor, materials and equipment necessary to complete the work.