

**ITEM 02608.0111 M - EXPOSED AGGREGATE CONCRETE SURFACING**

**DESCRIPTION:**

This work shall consist of the construction of a portland cement concrete surfacing with an exposed aggregate finish. All work shall be in accordance with N.Y.S.D.O.T. Standard Specifications, Section 608 and as contained herein , and as shown on the plans.

**This Specification has been**

**MATERIALS:**

Materials shall meet the requirements specified in the following subsections of Section 700, Materials.

**Disapproved USE**

Portland Cement	701-01
Premoulded Resilient Joint Filler	705-07
Wire Fabric for Concrete Reinforcement	709-02
Water	712-01

**ITEM 02608.0112**

also:

1. Course aggregate used shall meet the following requirements:

Screened gravel consisting of spherical or rounded cobbles and stones.

(Percentage by weight passing the following screen sizes):

- 200 mm - 100
- 38 mm - 30 to 50
- 6.3 mm - 10 to 30

All other requirements for course aggregate shall be from Subsection 703-02. All course aggregate shall be stockpiled for visual inspection. Material testing requirements shall be waived if so noted in the plans. Aggregate color range shall be as specified in the plans.

2. The water/cement ratio for the exposed aggregate concrete shall be 0.50 maximum.
3. The total air retained in the exposed aggregate concrete shall not be less than five percent (5%) nor more than 8%. Air entraining requirements shall be as per Subsection 711-08. The maximum slump permitted shall be 65 mm.

**CONSTRUCTION DETAILS:**

The general construction details for manufacturing, transporting and placing concrete shall meet the requirements of Section 501, Portland Cement Concrete - General. Mixing shall be accomplished on site, by a method to be approved by the Engineer. The exposed aggregate concrete surfacing shall be constructed by a method employing a retarding agent. The concrete shall be poured, screeded and finished, then sprayed with the retarding agent. The surfacing shall be wet-cured using a wet burlap cover for 12 - 16 hours, then the aggregate shall be exposed by washing off the cement paste using a high pressure water hose. The finished product shall have an overall uniform appearance as determined by the

**ITEM 02608.0111 M - EXPOSED AGGREGATE CONCRETE SURFACING**

Engineer. \* The surfacing shall then be wet-cured using wet burlap covered with polyethylene for seven (7) days, and air-dried for thirty (30) days. The new concrete shall then receive two (2) applications of boiled linseed oil to act as a sealant.

The concrete shall be placed in one course to the full depth shown on the plans.

Wire fabric for concrete reinforcement, Subsection 709-02, shall be embedded at mid-depth in the slab, unless otherwise shown on the plans. The wire fabric shall consist of No. 6 gauge wire at 150 mm centers transversely and longitudinally.

A premoulded resilient joint filler, Subsection 705-07, shall be installed at all joints between surfacing and curb, pavement, building, etc.

**METHOD OF MEASUREMENT:**

Exposed aggregate concrete surfacing will be measured as the number of surface square meters measured in place.

**BASIS OF PAYMENT:**

The unit price bid per square meter shall include the cost of preparing the subgrade, all materials, including wire fabric reinforcement, equipment and labor necessary to complete the work as specified except that any necessary excavation and subbase course will be paid for under their appropriate items. Payment at the unit price will be made after the concrete surfacing and curing application have been properly placed.

- \* The Contractor shall refer to water pollution control provisions, elsewhere in this contract, that would apply to this operation.