

ITEM 11608.03 M - NORTH ARROW PAVER - PRECAST CONCRETE (NYCDPR)

DESCRIPTION

Under this item, the Contractor shall furnish and install a Precast Concrete North Arrow Paver, in accordance with the plans, specifications, and directions of the Engineer.

MATERIALS

Precast Concrete Paver: The Precast Concrete North Arrow Paver shall be of the dimensions, colors and finishes as shown on the contract drawings and shall be as manufactured by Londino Stone Co., Inc., (718) 324-1439 or approved equal.

Concrete shall conform to the following requirements:

Cement shall be Portland Cement conforming to ASTM Designation C-175, Type IIA Moderate Sulfate Resistant. Aggregates for concrete shall conform to ASTM Designation C-33, with a maximum size of 19 mm. Concrete shall have a minimum strength of 34,500 kPa at the end of twenty-eight (28) days. Discs which require concrete coloring shall be incorporated with a Chromix Admixture, color as noted on the drawings, as manufactured by L.M. Scofield, 1-800-638-4444 or approved equal. The concrete mix shall contain the number of kilograms of color admixture per sack of cement as noted on the individual manufacturer's instructions.

Concrete for the Paver base shall be "Class A Concrete" and conform to those requirements specified.

NOTE: Maximum depth of relief shall be 5 mm as shown on plans.

Mortar Setting Bed: shall be composed of one (1) part Portland cement and a maximum of two (2) parts sand, with not more than five percent (5%) of the cement content containing hydrated lime. Joints are to be polyethylene foam with polyurethane caulking to match color of concrete disc or as noted on the drawings.

Stone Bed under concrete base shall equal an aggregate No.3.

CONSTRUCTION DETAILS

The Contractor shall trim and roll the subgrade to smoothly uniform lines to the satisfaction of the Engineer, prior to the placement of stone and concrete base. Formwork for concrete base shall be made of an acceptable material and shall be of a depth not less than that of thickness of the concrete base and properly located with top of base set to the designated elevation. Formwork shall remain in place until concrete is cured. The top of base surface shall be finished to smooth planes.

Mortar bed shall be of the thickness as indicated on the plans. All fresh mortar work shall be carefully protected from freezing and from drying effect of the sun and wind, and if required, it shall be sprinkled with

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water at such intervals as deemed necessary. No mortar work shall be laid or relayed when the temperature is below 5 °C. Precast Concrete North Arrow Paver shall be protected from injuries of all sorts.

The precast concrete north arrow paver shall be installed so that "N" (north) is facing true north. The Contractor shall verify the direction of "true north" before his installation operations.

Cleaning All work shall be cleaned immediately after installation using fiber brushes or other approved methods by the Engineer. No soiled, stained or dirty work will be accepted.

SUBMITTALS

The Contractor shall submit a full size shop drawing of the precast concrete north arrow paver he intends to use for approval of then Engineer prior to starting work.

If colored concrete is proposed for the paver, catalog cuts, Manufacturer's application instructions and a 75mm square color concrete sample must be submitted to the Engineer for approval prior to ordering of admixture.

METHOD OF MEASUREMENT

The quantity of north arrow pavers - precast concrete to be paid for under this item will be the number of north arrow pavers furnished and installed in accordance with the plans and specifications, to the satisfaction of the Engineer.

BASIS OF PAYMENT

The unit price bid for each north arrow paver shall include the cost of all labor and material including excavation, concrete foundation, foundation material, sealant, and all other incidental items necessary to furnish and install the north arrow paver, as shown on the plans, as specified, and as directed by the Engineer.