

GRANITE BOLLARD

****From Brookfield BRF FLBR(2)**

- xx. DESCRIPTION. This work shall consist of furnishing and installing granite bollards as detailed in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 619 of the Standard Specifications.

- xx. MATERIALS. Materials shall meet the following requirements:

(a) Concrete. Concrete shall meet the requirements of Section 541 for Concrete, Class A.

(b) Granite Bollard. Granite Bollards shall consist of hard, durable, quarried granite. Bollards shall be gray in color, free from seams, cracks, or other structural defects, and shall be of a smooth pebbled character. The bollard may contain natural color variations that are characteristic of the granite source.

(1) Source. The Contractor shall submit for approval the name of the quarry that is the proposed source of the granite for bollard materials. Such submission shall be made sufficiently in advance of ordering so that the Engineer may have the opportunity to judge the stone, both as to quality and appearance. Samples of bollards shall be submitted for approval only when requested by the Engineer.

(2) Finish and Surface Dimensions. The individual bollard stones shall be of the dimensions shown in the Plans and shall be of uniform width and depth along the length of the bollard.

Each arris line along the length of the bollard shall be rounded to a 13 mm (1/2 inch) radius.

The finishing of the bollards shall be saw cut and either sandblasted or thermal finished on all exposed sides. Each face shall be at right angles to the plane of the adjacent face. Drill holes shall not be permitted in any face unless otherwise shown in the Plans. Each face of each bollard shall have no projections greater than 25 mm (1 inch) or depressions greater than 13 mm (1/2 inch), measured from the vertical plane of the face.

The ends of the bollard stones shall be square to the faces of the bollard.

- xx. CONSTRUCTION REQUIREMENTS. Granite Bollards shall be constructed to the configuration shown in the Plans.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Granite Bollard) to be measured for payment will be the number of granite bollards installed in the complete and accepted work.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Granite Bollard) will be paid for at the Contract unit price per each. Payment will be full compensation for furnishing, transporting, handling, assembling, and placing the materials specified, including concrete foundations, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment for surface course and subbase materials will be made separately under the appropriate Contract items.

Payment will be made under:

| <u>Pay Item</u> | <u>Pay Unit</u> |
|---|-----------------|
| 900.620 Special Provision (Granite Bollard) | Each |