

SECTION 610 STONE MASONRY

610.01 Description. This work consists of furnishing all materials for and constructing stone masonry.

MATERIALS.

610.02 Portland Cement. Portland cement shall conform to the requirements of [Section 801](#).

610.03 Fine Aggregate. Fine aggregate shall conform to the requirements of [Section 818](#).

610.04 Water. Water shall conform to the requirements of [Section 803](#).

610.05 Hydrated Lime. Hydrated lime shall conform to the requirements of [Section 802](#).

610.06 Stone. Stone shall be of the dimensions and type as detailed and specified on the Plans. The Contractor shall submit samples of stone for approval prior to starting in case of new masonry work. Materials for masonry repair/replacement shall match the existing stone and patterns.

610.07 Steel Wall Ties. All steel wall ties shall be hot-dipped galvanized.

CONSTRUCTION METHODS.

610.08 Excavation. Excavation shall be made to the required depth when necessary, to expose the foundation on which stone masonry is to be placed.

610.09 Mortar. Portland cement mortar shall be mixed in the proportion of one part portland cement to three parts fine aggregate, to which shall be added hydrated lime not to exceed 10% of the cement by weight. The fine aggregate, portland cement, and lime shall first be mixed dry in an approved manner until the mixture assumes a uniform color, after which water shall be added as the mixing continues until the mortar attains such consistency as can be easily handled and spread with a trowel. The mortar shall be so placed to form a firm bond. Mortar which is not used within 30 minutes after water has been added shall be wasted. Re-tempering of mortar will not be permitted.

610.10 Placing Stone. All masonry work shall be constructed by experienced stone masons. The stone shall be laid to the wall to form the pattern shown on the Plans, and shall be thoroughly wetted before laying in mortar. All joints shall be completely filled with mortar and shall be finished properly as work progresses. Mortar joints shall be 10 (25 mm) to 120 (38 mm) thick.

No masonry shall be laid in freezing weather.

610.11 Cleaning. After constructing the stone masonry, the entire area shall be thoroughly cleaned of all mortar, scars, or spots. Efflorescence may be partly removed by water, but where special treatment is necessary, the area shall be first washed down with water, then treated with a solution of three parts hydrochloric acid to 100 parts of water following washing with water again. The Contractor shall be watchful to notice for any deteriorating reaction to the stone masonry, and in such case the treatment shall stop, and the treated area shall be thoroughly washed down with water. However, it shall be the responsibility of the Contractor to clean the constructed masonry as to present a natural color.

610.12 Backfilling. The excavated areas which are not occupied by the stone masonry shall be backfilled to the required elevation with suitable material which shall be tamped in layers of not more than 60 (150 mm), until firm and solid. No backfill shall be made prior to approval.

610.13 Method of Measurement. The quantity of stone masonry placed and accepted will be measured by the square foot (square meter).

610.14 Basis of Payment. The quantity of stone masonry will be paid for at the Contract unit price per square foot (square meter). Price and payment will constitute full compensation for excavating and backfilling; for furnishing and placing all materials; for the disposal of surplus materials, and for all labor, equipment, tools, and incidentals required to complete the work, including cleaning.