ITEM #0609030A – REPOINT MORTAR JOINTS

Description: Work under this item shall consist of preparing existing joints and installing new beaded mortar joints on existing brick walls within areas shown on the plans and as directed by the Engineer. Work will include removal of existing mortar, preparing the joints, installing new mortar and finishing with the proper profile.

Materials: Proposed mortar samples and test results are to be submitted to the Engineer for review and approval before proceeding to full-scale repair work.

The replacement mortar shall match the original mortar in color, texture, and tooling. The sand used in the replacement mortar must closely match the sand in the original mortar. The replacement mortar shall be as vapor penetrable and as soft as, or softer than, the original mortar.

Mortar materials shall be as follows:

1. Portland Cement: ASTM C 150, Type I.
2. Hydrated Lime: ASTM C 207, Type S.
3. Colored Mortar Aggregate: Natural or manufactured sand selected to produce mortar color to match adjacent existing mortar color.
4. For pointing mortar provide sand with rounded edges.
5. Match size, texture and gradation of existing mortar as closely as possible.
6. Colored Mortar Pigment: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes. Use only pigments with record of satisfactory performance in masonry mortars.
7. Water: Clean, free of oils, acids, alkalis and organic matter.

Construction Methods: Prior to removal or repointing activities, erect temporary protection to contain dust, mortar and debris from persons and motor vehicles from harm. Repoint mortar joints and repair masonry when air temperature is between 40 and 80 degrees Fahrenheit, it is predicted to remain so for at least 7 days after the completion of work, and in accordance to the mortar supplier's requirements for preparation and repointing.

Demonstration Test Area: Prior to commencing the repointing operations, the Contractor shall install a trial application of the proposed repointing methods on a portion of the wall, as directed by the Engineer. The surface area of the cleaning demonstration test shall be approximately four (4) by four (4) feet in area. The demonstration test area shall be cleaned using methods, materials and means previously submitted and approved.

The production work of repointing the masonry shall not begin without approval from the Engineer of the methods, materials, and equipment used. The evaluation by the Engineer of the acceptability of the Contractor's proposed repointing will include a seven (7) day observation period after completion of the repointing to allow the mortar to cure.

Preparation:

1. Remove deteriorated and unsound mortar in areas directed by Engineer and not less than is required to expose sound, unweathered mortar. Any loose or disintegrated mortar beyond this minimum depth shall also be removed. When removing mortar, exercise caution not to damage the adjacent masonry.
2. Blow loose mortar and dust out of prepared joints with oil-free compressed air.
3. Rinse mortar joints with potable water to remove dust and residual mortar particles. While the masonry is still damp, but free of pooled water, install first lift of new mortar. Install mortar in lifts that are 1-inch thick, allowing each lift to cure to "thumbprint" hardness before installing the successive lift.
4. Tool final lift to the profile directed by the Engineer. If the existing masonry has worn or rounded edges, slightly recess the finished mortar joint from the face of the masonry to avoid creating a joint that is wider than the original. Do not allow mortar to spread over the edges of the exposed masonry.
5. Cure mortar by maintaining in a thoroughly damp condition for at least 72 hours.

Mortar drippings on wall shall be immediately cleaned and the entire wall face left in a clean and presentable condition.

Work to repoint mortar joints is suggested to be completed after removal of graffiti. Work to remove graffiti shall be paid under the item “Removal of Graffiti”. If mortar repointing occurs before removal of graffiti and in the process additional mortar is dislodged, additional mortar repointing will be required to the satisfaction of the Engineer and at no additional cost to the Department.

Method of Measurement: This work will be measured for payment by the number of linear feet of repointed masonry measured in place. The limits of repointed masonry applications will be noted on the plans as "Repoint Mortar Joints".

Basis of Payment: This work will be paid for at the contract unit price per linear foot for "Repoint Mortar Joints", which price shall include the testing of the existing mortar, removal of existing deteriorated mortar, preparation and installation of new mortar, and all material, equipment, tools and labor incidental thereto.

Pay Item	Pay Unit
Repoint Mortar Joints	l.f.