ITEM #0601897A – REMOVAL OF GRAFFITI

Description: Work under this item shall consist of surface preparation, cleaning and collection of associated debris over graffiti covered surfaces of the piers and abutments as shown on the plans, as directed by the Engineer and in accordance with these specifications. Designated areas include: areas specifically designated on the plans and those areas observed in the field where graffiti is present, principally on brick surfaces between pier columns.

Any damage to the existing surfaces resulting from surface preparations, containment or otherwise shall be repaired by the Contractor at no cost to the State.

The surfaces to be cleaned under this special provision are based on the information contained in the plans.

Materials: All materials and equipment shall be subject to the Engineer's review and approval before any work can begin.

Power Wash

The power wash shall consist of a soluble, abrasive blast media. Blast media shall be a large crystal sodium bicarbonate or a magnesium sulfate based media. Solubility of the media in water shall be 8.6 g/100 ml.

The equipment with the media shall be a soluble media injector type power washer. The Contractor shall submit catalog cuts or other documentation for all equipment proposed for use in this work.

Solvent Wash

The cleaning compound shall be a blend of an organic solvent of emulsifiers and surfactants. It shall be a bio-degradable water based mixture developed from non-toxic and non-corrosive substances. This may be a soybean solution or other, satisfactory to the Engineer. Mineral spirits are also acceptable for this usage.

The cleaner shall lift graffiti from the substrate surface, and emulsify and dissolve the paint constituents; pigments; oils; binders and fillers. The material(s) used shall not damage or mar the substrate. Acceptance of the cleaning compound will be based on the manufacturer's certification that the material conforms to the requirements of this specification.

Construction Methods:

The Contractor may use one or more of the methods below for removal of graffiti, although the graffiti must be removed to the satisfaction of the Engineer, and not readily apparent to the naked eye at a distance of 20 feet, before the area will be measured for payment. New graffiti at the

same location will be measured for payment when the removal procedure meets the requirements of this specification.

Acceptable removal methods include:

- Solvent Wash
- Power Wash
- Alternate methods, submitted by the Contractor and approved by the Engineer

Equipment: All equipment used in surface preparation and removal of debris, such as hoses, hoppers, recycling and vacuum machines that the Contractor brings to the site, shall be clean and free of any prior debris.

Spray equipment, brushes and rollers used in application of coatings shall be sized sufficiently and be in proper working order to accomplish the work according to the manufacturer's written recommendations.

Solvent Wash Method:

A wet, non-abrasive cleanser is recommended. This cleanser shall not contain strong solvents or alcohols.

Cleanse the surface of loose dirt particles with clean water.

Use a soft sponge or brush to wash the graphitized surface with detergent and water. Avoid scrubbing the surface unnecessarily. After the cleaner has been used, apply a steady stream of water on the cleaned surface to wash the dirt particles away. Allow to dry.

The Contractor shall supply the instructions of the cleaning procedure, to the Engineer, at least two weeks prior to starting this work. Graffiti Removal material shall be applied to surfaces as per the manufacturer's instructions.

After the solvent is applied, the surfaces shall then be wiped with a non-abrasive material. The wiped surfaces shall then be rinsed with a water wash. The cleanliness of the surfaces is subject to the approval by the Engineer.

After rinsing, the Contractor shall repeat the cleaning process in areas where graffiti is still visible. If the second cleaning process fails to remove the graffiti to the Engineer’s satisfaction, the equipment and methods used by the Contractor will again be subject to review and approval by the Engineer. Cleaned surfaces shall bear no evidence of graffiti paint layers. Use the Power Wash or Another Approved Method if the Solvent Wash is not successful in removing the graffiti.

Power Wash Method:

All surfaces with graffiti shall be cleaned with a soluble, abrasive blasting media applied with a

soluble media injector at 3,000 psi, 5 gallons per minute or a compressed air delivery system at 100 psi, 35 gallons per second, whichever is satisfactory to the Engineer. No particulate matter of any nature shall be permitted to remain on the cleaned surface. After cleaning, the surface shall be rinsed with tap water applied with a power washer at 1000 psi. All visible media shall be removed from the surface.

After rinsing, the Contractor shall repeat the cleaning process in areas where graffiti is still visible. If the second cleaning process fails to remove the graffiti or paint to the Engineer's satisfaction, the equipment and methods used by the Contractor will again be subject to review and approved by the Engineer. Cleaned surfaces shall bear no evidence of graffiti paint layers. Use the Solvent Wash or Another Approved Method if the Power Wash is not successful in removing the graffiti.

Method of Measurement: This work will be measured by the number of square feet, measured to the nearest square foot, of surface area that graffiti is removed, in accordance with this specification.

Basis of Payment: The unit price per square foot shall include the cost of furnishing all labor, materials and equipment necessary to complete the work. No direct payment will be made for the cost of storage or hauling the materials to and from the bridge site, but the cost thereof shall be included in the square foot price as noted above.

Pay Item	Pay Unit
Removal of Graffiti	S.F.