

ITEM 510

PLANING AND/OR TEXTURING PAVEMENT

- 510.1 Description. This item shall govern for the planing or the planing and texturing of existing asphaltic concrete pavement, asphalt stabilized base and/or Portland cement concrete pavement and bridge deck surfaces at the locations shown on the drawings, or as directed by the Engineer.

When shown on the drawings, salvaged asphaltic concrete pavement and/or asphalt stabilized base, including any accompanying surface treatment, or plant mix, may be allowed or required for use in other construction items for this project. If not used in the construction of this project, these materials shall be stockpiled or disposed of, by the Contractor, at a location approved of by the Engineer.

- 510.2 Equipment. The equipment for removing the pavement surface shall be a power operated planing machine with a minimum six foot cutting width. For detail work, equipment with less than six foot cutting widths will be allowed. The equipment shall be self-propelled with sufficient power, traction and stability to maintain an accurate depth of cut and slope. The equipment shall be capable of cutting a four inch depth of asphaltic concrete pavement, or a combination of two inches of asphaltic concrete pavement and one half inch Portland concrete pavement, in one continuous operation.

The equipment shall be equipped with an approved automatic dual longitudinal grade control system and a transverse control system, unless otherwise directed by the Engineer. The longitudinal controls shall be capable of operating from any longitudinal grade reference. The transverse controls shall have an automatic system for controlling cross slope at a given rate.

The machine shall have a manual system providing for uniformly varying the depth of cut while the machine is in motion, thereby making it possible to cut flush to all inlets, manholes, curbs and gutters or other obstructions within the paved area. The speed of the machine shall be variable in order to leave the desired grid pattern.

The machine shall be equipped with integral loading and reclaiming devices to immediately remove material being cut from the surface of the roadway and discharge the cuttings into a truck, all in one operation. The machine shall be equipped with devices to control dust created by the cutting action.

A street sweeper shall be provided for removing cuttings and debris from the planed or textured pavement. Other sweeping equipment may be provided in lieu of a street sweeper, when approved by the Engineer. The Contractor shall provide any other equipment and personnel necessary for the proper operation of the planing machine, to minimize dust and remove cuttings.

510.3 Construction Methods. The pavement surface shall be removed for the length, depth and width and to the typical section shown on the drawings, and to the lines and grades established by the Engineer. The planed surface shall provide a satisfactory riding surface free from gouges, continuous longitudinal grooves, ridges, oil film and other imperfections of workmanship and shall have a uniform textured appearance. Any diesel markings and stains on the road, not falling within the path of the milling machine, shall be removed and if necessary, repaired. The cost of this work shall be incidental to planing. Any damage inflicted to water valves, water meters or manholes caused by the planing machine shall be repaired by the Contractor, at his expense.

When removing any asphaltic concrete pavement from an underlying Portland cement concrete pavement, all of the asphaltic concrete pavement shall be removed leaving a uniform surface of Portland cement concrete.

Any vertical or near vertical longitudinal face exceeding 1 1/4 inches in height, in the pavement surface open to traffic at the end of a work period shall be sloped a minimum of 10:1. Transverse faces that are present at the end of a work period, shall be tapered in a manner acceptable to the Engineer.

Loose concrete material resulting from the operation shall be stockpiled at locations indicated, or shall be disposed of at sites obtained by the Contractor and approved by the Engineer. Loose asphaltic material resulting from the planing operation, which is not used in the other construction items for this project, shall be disposed of by the Contractor at his expense. Salvaged asphaltic paving to be used for the construction of other items for this project, shall be kept as free as possible from contamination by non-asphaltic materials during its removal,

transportation and storage. The stockpile areas shall be cleaned of trash, weeds and grass. The Engineer may require separate stockpiling of salvaged asphaltic paving materials of differing type or quality.

Pavement that is not removed by the planing machine, adjacent to steep curbs and gutters, inlets, manholes or other obstructions shall be removed by other methods acceptable to the Engineer.

The pavement surfaces shall be swept with a street sweeper or other sweeping equipment, approved by the Engineer, to remove all debris leaving a clean and presentable condition.

- 510.4 Surface Texture and Tests. In areas where traffic will be permitted, the texture shall be a grid pattern or any other pattern with discontinuous longitudinal striations that will provide, in the opinion of the Engineer, a satisfactory riding surface.

When the planed pavement is not to be overlaid, the minimum texture depth, resulting from the number measurements directed by the Engineer, shall be not less than 0.05 inches. When these texture requirements are not met, the Contractor shall cease operations until the Engineer is satisfied that changes in the texturing procedures will produce an acceptable texture. In no case shall the texture depth on bridge deck structures exceed 3/16-inch. Additionally, care shall be taken to prevent damage to armor joints, sealed expansion joints and/or other appurtenances.

The surface of the pavement, after planing, shall have a smooth riding quality and shall be true to the established line, grade and cross section. The pavement surface, when tested with a 10-foot straight edge placed parallel to the centerline of the roadway, shall not have any deviation greater than 1/8-inch in 10 feet. The deviations shall be measured from the top of the texture. Any point in the surface not meeting this requirement shall be corrected, as directed by the Engineer, at the Contractor's expense.

- 510.5 Measurement. Planing, or planing and texturing pavement, will be measured by the square yard of surface area for the various depths shown on the drawings for each pavement type. Pavement types are asphaltic concrete pavement and Portland cement concrete pavement. Square yard calculations will be based on the neat dimensions shown on the drawings, or as adjusted by the Engineer.

Measurement will be based on the depth shown for each bid item, within the limits shown on the drawings regardless of the actual thickness

removed, or the number of passes required. Only one bid item for each pavement type will be applicable to any one location.

When planing asphaltic concrete pavement from any underlying Portland cement concrete pavement, the planing of any Portland cement concrete pavement to remove all asphaltic concrete pavement as required under part 510.3 of this specification, will be considered subsidiary to the planing of asphaltic concrete pavement, to the depth shown on the drawings, and will not be paid for directly.

510.6 Payment. The work performed in accordance with this item and measured as provided under "Measurement" will be paid for at the unit price bid for "Planing and Texturing Asphaltic Concrete Pavement", "Planing and Texturing Portland Cement Concrete Pavement", "Planing Asphaltic Concrete Pavement", or "Planing Portland Cement Concrete Pavement", of the various depths shown by the drawings. This price shall be full compensation for removing all material to the depth shown, texturing the pavement surface (when texturing is shown on the bid item description), loading, hauling, unloading and satisfactory storing or disposing of the material, for all sweeping, and for all labor, tools, equipment, manipulation and incidentals necessary to complete the work.

Tapering or sloping of the longitudinal or transverse joints as described under Part 510.3, will be considered subsidiary to this item and will not be paid for directly.

There are line code(s), description(s), and unit(s) for this item.

END OF ITEM 510