

SPECIFICATIONS

FULL DEPTH RECLAMATION

A. Description

This work shall consist of the preparation of a stabilized base course composed of a mixture of the existing bituminous concrete pavement and existing base course material. The manufacture of the stabilized base course shall be done by in-place pulverizing and blending of the existing pavement and base materials, and the introduction of additives if called for in the Special Conditions. The process which results in a stabilized base course (8 to 12 inches), shall be accomplished in accordance with these specifications and conform to the lines and grades shown on the plans or as established by the engineer.

The remaining base material and/or sub-grade may be modified to properly accommodate the stabilized base material. Any modification of this nature, if required, such as but not limited to the excavation and replacement of unsuitable materials and shaping and fine grading the sub-grade, will be accomplished under separate payment items. Any movement of the stabilized base material for these modifications is also to be accomplished under a separate payment item.

In areas that need aggregate added, the Contractor shall furnish the imported material and shall be paid by the appropriate contingent item in the Schedule of Prices. It is the intent to have a final curb reveal of 8 inches after placement of the paving courses.

B. Equipment

In general, the contractor has the option to utilize whatever equipment can effectively pulverize and blend at a minimum of 12 inches in depth. The minimum Horse Power should be 500. The equipment to be used must also have the capability of introducing liquid additives uniformly and accurately. Use equipment capable of automatically metering liquids with a variation of not more than plus or minus two percent by weight of liquids. Maintain all equipment in a satisfactory operating condition.

Use a small milling machine adjacent to any curbs, manholes, inlets, and any other structures not accessible or practical to be milled by the reclaimer. The milled material produced by the small mill will be the same gradation of the reclaimed material to produce a uniform base.

C. Construction Method

The existing pavement and base material shall be pulverized and blended so the entire mass of material shall be uniformly graded and the aggregate, if required, shall be uniformly dispersed throughout the processed material.

After the material has been processed, it shall be shaped, graded, and compacted to the lines, grades, and depth as shown on the plans and cross section. Water may be applied to ensure optimum moisture content at the time of mixing and compaction. The restored cross section shall be thoroughly compacted to not less than ninety-seven percent of the maximum dry density or determined by ASHTOT99.

Use both a pad foot roller 10 to 12 ton and a vibratory steel roller (10 ton or larger) in the rolling operation. The in-place density of each compacted course will be determined in accordance with PTM No. 402. Density readings will be taken by a licensed nuclear gauge operator and witnessed by the inspector. Construct at least two (2) control strips by varying the roller sequence to achieve maximum density. Compact the remaining reclaimed base course to a target density of at least ninety-six percent (96%) of the highest average control strip density.

The completed stabilized base shall be tested for smoothness and accuracy of grade and if any portions are found to lack the required smoothness or accuracy such portions shall be reshaped and re-compacted until the required smoothness and accuracy are obtained.

The Special Conditions will indicate the depth of existing base material to be incorporated into the recycling process and also the rate of application of any additives specified.

The pulverized material shall conform to the following gradation:

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
2"	98 - 100
1-1/2"	95

Material gradation may vary due to local aggregates and conditions.

D. Payment

Payment will be made under the following:

<u>ITEM NO.</u>	<u>PAY ITEM</u>	<u>PAY UNIT</u>
1	Preparation, pulverizing, shaping, compaction, and finishing.	Square Yard
2	Additive (if applicable) Liquid Additives Mixing Water Dry Additives(lime, Portland cement)	Gallon Gallon Ton
3	Imported Material (Aggregate, RAP)	Ton
4	Soft and Yielding	Square Yard
5	Traffic Control	Lump Sum
6	Surface Treatment / Fog Seal	Square Yard
7	Mobilization	Lump Sum

The price for the items listed above shall be full compensation for all costs incurred for material, labor, tools and equipment for each complete and in-place item.

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