SECTION 32 12 13.2~~3~~4

INVERTED (COVERED) PRIME COAT - ASPHALTIC

PART 1 - GENERAL

1.1 DESCRIPTION

A. This item shall consist of the application of asphaltic material on the completed base course in accordance with these Specifications.

1.2 MEASUREMENT AND PAYMENT

A. This item will not be considered a separate cost item. Cost for work herein specified, including the furnishing of all materials, equipment, tools, labor and incidentals necessary to complete the work shall be included in the unit price bid for Hot Mix Asphaltic Concrete.

1.3 SUBMITTALS

A. Supplier and Material Safety Data Sheet.

PART 2 – PRODUCTS

2.1 MATERIALS

A. The asphaltic material used for the prime coat shall be ~~MC-30 or~~ RC-250. It shall meet the requirements of the most recent Texas Department of Transportation Specifications; ~~2004~~ Item 300 "Asphalts, Oils, and Emulsions".

~~A.~~B. Grade 5 pre-coated lightweight aggregate Item 302 "Aggregates for surface treatments"

2.2 TESTING REQUIREMENTS

A. If requested by the Engineer, the Contractor shall produce the calibration papers and certifications for the distributor being used on the project.

PART 3 – EXECUTION

3.1 GENERAL

A. The following construction methods shall be used when applying asphaltic material:

1. SURFACE PREPARATION: The surface shall be cleaned by sweeping, brooming or other approved methods when the base is satisfactory to receive the prime coat in the opinion of the Engineer.

2. PRIME COAT: Prime coat shall not be applied when the atmospheric temperature is below 60 °F and falling. However, it may be applied when the temperature is above 50 °F and rising. The temperature determination shall be made by taking the temperature in the shade and away from artificial heat. Asphaltic material shall not be placed when general weather conditions are not suitable in the opinion of the Engineer.

3. AGGREGATE: Grade 5 aggregate shall be applied at a rate 1cy divided by 135 sy. After 1 hour a pneumatic roller shall be used to seat the aggregate and the prime.

~~3~~4. APPLICATION: The surface shall be lightly sprinkled with water just prior to application of the asphaltic material if found necessary by the Engineer. The asphaltic material shall be applied to the cleaned base by an approved self-propelled pressure distributor. The distributor shall distribute the material evenly and smoothly under an adequate pressure for proper distribution. Uniform coverage is desired without pooling of excess material. The Contractor shall provide all necessary facilities for determining the temperature of the asphaltic material in all heating equipment and distributor. This information is to be used for determining the application rate and for securing uniformity at the junction of successive distributor loads. Asphaltic material shall be applied at a temperature consistent with and the range recommended in the most recent Texas Department of Transportation Specifications; ~~2004~~ Item 300 "Asphalts, Oils, and Emulsions." The Engineer shall select the temperature of application and the Contractor shall apply the material at a temperature within 15° F of the selected temperature. Application for RC250 prime is 0.2 to 0.25 gallons per sy.

~~4~~5. EQUIPMENT: All storage tanks, piping, retorts, booster tanks, and distribution equipment used in handling asphaltic material shall be kept clean and in good operating condition at all times. The equipment shall be operated in a manner which prevents contamination of the asphaltic material (with any foreign substance). It shall be the responsibility of the Contractor to provide and maintain in good working order at all times, a recording thermometer at the storage heating unit. The distributor shall have been recently calibrated and the Engineer shall be furnished an accurate and satisfactory record of the calibration. Should the yield on the applied asphaltic material appear to be in error after beginning the work, the distributor shall be re-calibrated in a manner satisfactory to the Engineer before proceeding with the work.

~~5~~6. SURFACE MAINTENANCE: The Contractor shall be responsible for the maintenance of the surface until the work is accepted by the Engineer. No traffic, hauling or placement of final surface material will be permitted over the freshly applied prime coat until authorized by the Engineer.

END OF SECTION