

ITEM 27

ASPHALTIC CONCRETE SURFACE (HOT MIX)

27.01 SCOPE OF WORK

- (a) This work shall consist of an asphaltic concrete pavement composed of a mixture of coarse aggregate, fine aggregate, mineral filler if specified or required, and asphalt cement, constructed on a prepared roadbed in accordance with these Specifications and in reasonably close conformity with the lines, grades, typical cross-section and rate of application shown on the Plans, or established by the Engineer.
- (b) The provisions of Item 12 of these Specifications shall apply to his construction unless otherwise stipulated.

27.02 MATERIALS

- (a) Materials used in this construction shall meet the requirements of the following Items of these Specifications:
 - ITEM 14.09(b) CHEMICAL ADDITIVE
 - ITEM 67.01 ASPHALT CEMENT, VISCOSITY GRADE AC-20
 PENETRATION GRADE 60-70 OR 85-100
 - ITEM 73.11 MINERAL AGGREGATE
 - ITEM 73.17 MINERAL FILLER
- (b) Asphalt cement used with aggregate Gradings D and F in the preparation of asphaltic concrete surface mixtures shall be treated with an anti-stripping additive as specified in Item 74.09.

27.03 COMPOSITION OF MIXTURES

- (a) Composition of mixtures in this construction shall meet all applicable requirements of Item 12.03.
- (b) The specified mineral aggregate and asphalt cement shall be in such proportions as to produce mixtures within the following master composition ranges:

**Proportion of Total
Mixture by Weight**

Pay Item Number	Description	Aggregate Gradation	Combined Mineral Aggregate	Asphalt Cement
27D	Surface Course "D"	D	92.0%-95.0%	5.0%- 8.0%
27E	Surface Course "E"	E	92.0%-95.0%	5.0%- 8.0%
27F	Surface Course "F"	F	90.0%-93.0%	7.0%-10.0%

27.04 EQUIPMENT

The equipment used in this construction shall meet the requirements of Items 12.04 through 12.08. All equipment necessary for the satisfactory performance of this construction shall be on the project, and approved, before work will be permitted to begin.

27.05 CONSTRUCTION REQUIREMENTS

The construction requirements for this work shall be as prescribed in Item 12.09, Item 12.11, Item 12.12, Items 12.14 through 12.17, and Items 27.06 through 27.08.

27.06 PREPARING THE DESIGNATED SURFACE

Preparation of the designated surface upon which the material is to be placed shall be performed in accordance with the applicable provisions of these Specifications.

27.07 MIXING

Requirements for mixing shall be as prescribed in Item 12.13. In addition, the mixing cycle for surface course mixtures shall include a dry-mixing period of at least five seconds.

27.08 SURFACE REQUIREMENTS

The surface shall meet the requirements specified under Item 12.18, and when tested in accordance with the provisions of that Item, the deviation of the surface from the testing edge of the straightedge shall not exceed one-fourth inch (1/4").

27.09 COMPENSATION (IF APPLICABLE)

- (a) "Asphaltic Concrete Surface (Hot Mix)" will be measured by the unit(s) specified in the bid schedule, accepted and placed as indicated on the Plans and/or Specifications, or as directed by the Engineer.
- (b) No allowance will be made for: unacceptable materials; for materials furnished or used in excess of the amount indicated on the Plans and/or the Specifications, or as directed by the Engineer; for material used in replacing defective or condemned construction; or for material wasted in handling, hauling, or otherwise.

BASIS OF PAYMENT (IF APPLICABLE)

"Asphaltic Concrete Surface (Hot Mix)" shall be paid for at the contract price specified in the bid schedule for Item 27D, Item 27E, or Item 27F, complete-in-place, which price shall be full compensation for the construction of an asphaltic concrete surface as indicated on the Plans or on the Specifications or as directed by the Engineer and in accordance with the conditions, stipulations, provisions, and requirements contained herein; for completing all incidentals thereto; and for furnishing all materials, equipment, tools, labor, and incidentals required to complete this Item.

END OF DOCUMENT