

## 300 BASES

### ITEM 301 ASPHALT CONCRETE BASE

- 301.01 Description**
- 301.02 Composition**
- 301.03 Mixing**
- 301.04 Spreading and Finishing**
- 301.05 Spreading and Surface Tolerances**
- 301.06 Basis of Payment**

**301.01 Description.** This work consists of constructing a base course of aggregate and asphalt binder, mixed in a central plant and spread and compacted on a prepared surface.

The requirements of Item 401 apply, except as modified by this specification.

**301.02 Composition.** Furnish aggregate for the mix that conforms to the following gradation:

Sieve Size	Total Percent Passing
2 inch (50 mm)	100
1 inch (25.0 mm)	75 to 100
1/2 inch (12.5 mm)	50 to 85
No. 4 (4.75 mm)	25 to 60
No. 8 (2.36 mm)	15 to 45
No. 16 (1.18 mm)	10 to 35
No. 50 (300 μm)	3 to 18
No. 200 (75 μm)	1 to 7

Submit for the Laboratory's approval the desired percentage of the aggregate passing the No. 4 (4.75 mm) sieve and blend of individual components. The Contractor may use reclaimed asphalt concrete pavement according to 401.04. The Laboratory will establish the required binder content within a range of 4 to 8 percent. Do not make changes in these JMF values due to unsatisfactory results or other conditions except as authorized by the Laboratory. Obtain a new JMF approval for any desired change to an existing JMF.

**301.03 Mixing.** If using a batch plant, use screens with openings of sizes that result in a reasonably balanced separation of the dried and heated aggregate into a minimum of two bins.

**301.04 Spreading and Finishing.** Ensure that the maximum compacted depth of any one layer is 6 inches (150 mm). Ensure that the temperature of the mixture when delivered to the paver is a minimum of 250 °F (120 °C) if a hot mix asphalt and 230 °F (110 °C) if a warm mix asphalt according to 402.09. Ensure the temperature of the mixture is sufficient for the roller coverage to be effective in compacting the mixture.

**301.05 Spreading and Surface Tolerances.** Do not exceed 3/8 inch (10 mm) in surface variation from the testing edge of a 10-foot (3 m) straightedge. If using Item

**301.06**

301 Asphalt Concrete Base as a subbase for a rigid pavement or base, do not exceed a variation of 1/4 inch (6 mm).

Correct variations in excess of slope or surface tolerances by adding or removing material in a manner satisfactory to the Engineer. The Contractor may use asphalt concrete approved by the Engineer.

**301.06 Basis of Payment.** The City will pay for accepted quantities, complete in place, at the contract price as follows:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
301	Cubic Yard (Cubic Meter)	Asphalt Concrete Base