SECTION 210—ASPHALT MATERIALS

210.01—Description.

These specifications cover asphalt material consisting of asphalt, asphalt cement, asphalt cutback, or asphalt emulsion as defined in ASTM D8.

210.02—Materials.

Asphalt material shall be homogeneous and shall conform to the following:

(a) Rapid curing and medium curing liquid asphalts used as surface treatments shall contain a heat-stable additive conforming to the requirements of Section 211.

(b) Liquid asphalt material will be tested for coating ability in accordance with the requirements of AASHTO T182, with the following modifications:

1. Material that can coat 95 percent of a shady dolomite will be classified Type I.

2. Material that can coat 95 percent of a siliceous gravel wetted with 2 percent water by weight will be classified Type II.

(c) Rapid curing cutback asphalts shall conform to the requirements of AASHTO M81.

(d) Medium curing cutback asphalts shall conform to the requirements of AASHTO M82.

(e) Cements shall be viscosity graded conforming to AASHTO M226, Table 2, except that the loss on heating shall be not greater than 1.0 for AC-5, 0.8 for AC-20 and 0.5 for all other grades.

(f) Emulsions shall conform to the requirements of AASHTO M208 and shall be Type I as specified in (b)1. herein except that CRS-2 shall be Type II as specified in (b)2. herein. CRS-1h shall conform to the requirements of AASHTO M208 for CRS-1 except that the penetration shall be 40 to 110. Emulsions will be sampled and tested in accordance with the requirements of AASHTO T59 except that viscosity will be tested in accordance with the requirements of VTM-64.

210.03—Detail Requirements.

(a) **Shipping:** Shipments of asphalt material shall be made in transporting media that are free from contamination. Tank trucks or trailers shall be

equipped with a sampling device approved by the Engineer. The device shall have an inside diameter of 1/2 to 1 inch and a gate valve or petcock. The device shall be built into the tank or the recirculating or discharge line so that a sample can be drawn during circulation or discharge.

(b) **Storing:** Asphalt material to be stored shall be placed in storage tanks that are free from contamination.

210.04—Payment Adjustment System.

If the material represented by any one sample does not conform to the requirements herein and the material is a pay item, the contract unit price for the item will be reduced by 4 percent for each property that does not conform to the specifications for the quantity represented by the sample that was used on the project. Unused material represented by the failing sample will be rejected.

If the material represented by a failing sample was not a pay item, the material will be considered unacceptable and shall be subject to the requirements of Sections 105.13 and 106.10.

SECTION 211—ASPHALT CONCRETE

211.01—Description.

Asphalt concrete shall consist of a combination of mineral aggregate and asphalt material mixed mechanically in a plant specifically designed for such purpose.

An equivalent single axle load (ESAL) will be established by the Engineer and SUPERPAVE mix types may be specified as one of the types listed as follows:

Mix Type	Equivalent Single Axle Load (ESAL) Range (millions)	Asphalt Performance Grade (PG)	Aggregate Nominal Maximum Sieve in.*
SM-9.0 A	0 to 3	64–22	3/8"
SM-9.0 D	3 to 10	70–22	3/8"
SM-9.0 E	Above 10	76–22	3/8"
SM-9.5 A	0 to 3	64–22	3/8"
SM-9.5 D	3 to 10	70–22	3/8"
SM-9.5 E	Above 10	76–22	3/8"
SM-12.5 A	0 to 3	64–22	1/2"
SM-12.5 D	3 to 10	70–22	1/2"
SM-12.5 E	Above 10	76–22	1/2"

continued