

**SECTION 32 12 16
ASPHALT PAVING**

PART 1 - GENERAL

1.1 DESCRIPTION

This work shall cover the composition, mixing, construction upon the prepared subgrade, and the protection of hot asphalt concrete pavement. The hot asphalt concrete pavement shall consist of an aggregate or asphalt base course and asphalt surface course constructed in conformity with the lines, grades, thickness, and cross sections as shown. Each course shall be constructed to the depth, section, or elevation required by the drawings and shall be rolled, finished, and approved before the placement of the next course.

1.2 RELATED WORK

- A. Laboratory and field testing requirements: Section 01 45 29, TESTING LABORATORY SERVICES.
- B. Subgrade Preparation: Paragraph 3.3 and Section 31 20 00, EARTH MOVING.
- C. Pavement Markings: Section 32 17 23, PAVEMENT MARKINGS.

1.3 INSPECTION OF PLANT AND EQUIPMENT

The VA shall have access at all times to all parts of the material producing plants for checking the mixing operations and materials and the adequacy of the equipment in use.

1.4 ALIGNMENT AND GRADE CONTROL

The Contractor's Registered Professional Land Surveyor shall establish and control the pavement (aggregate or asphalt base course and asphalt surface course) alignments, grades, elevations, and cross sections as shown on the Drawings.

1.5 SUBMITTALS

- A. In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, furnish the following:
- B. Data and Test Reports:
 - 1. Aggregate Base Course: Sources, gradation, liquid limit, plasticity index, percentage of wear, and other tests required by State Highway Department.
 - 2. Asphalt Base/Surface Course: Aggregate source, gradation, soundness loss, percentage of wear, and other tests required by State Highway Department.
 - 3. Job-mix formula.
- C. Certifications:

1. Asphalt prime and tack coat material certificate of conformance to State Highway Department requirements.
 2. Asphalt cement certificate of conformance to State Highway Department requirements.
 3. Job-mix certification - Submit plant mix certification that mix equals or exceeds the State Highway Specification.
- D. One copy of State Highway Department Specifications.
- E. Provide MSDS (Material Safety Data Sheets) for all chemicals used on ground.

1.6 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only. Refer to the latest edition of all referenced Standards and codes.
- B. Virginia Department of Transportation
2007 Road and Bridge Specifications

PART 2 - PRODUCTS

2.1 GENERAL

- A. Aggregate base and asphalt concrete materials shall conform to the requirements of the following and other appropriate sections of the latest version of the 2007 Virginia Road and Bridge Specifications. Where the term "Engineer" or "Commission" is referenced in the State Highway Specifications, it shall mean the VA VA or VA Contracting Officer.

2.2 AGGREGATE BASE

- A. The aggregate base shall consist of 21B Aggregate Base Course, in accordance with Section 203 of the Virginia Road and Bridge Specifications: Coarse Aggregate.

2.3 ASPHALT PAVEMENT

- A. The asphalt pavements shall consist of 9.0A wearing course, 19.0A leveling course, and 25.0A base course, in accordance with Section 211 of the Virginia Road and Bridge Specifications: Asphalt Concrete.

2.4 TACK COAT

- A. Tack coats shall comply with Section 210 of the Virginia Road and Bridge Specifications: Asphalt Materials.

PART 3 - EXECUTION

3.1 MIXING ASPHALTIC CONCRETE MATERIALS

- A. Mix asphalt pavement in accordance with Section 211 of the VDOT Road and Bridge Specifications: Asphalt Concrete.

3.3 SUBGRADE

- A. Prepare subgrade in accordance with Section 305 of the VDOT Road and Bridge Specifications: Subgrade and Shoulders.

3.4 AGGREGATE BASE

- A. Place aggregate base in accordance with Section 309 of the VDOT Road and Bridge Specifications: Aggregate Base Course.

3.5 PLACEMENT OF ASPHALT PAVEMENT

- A. Place asphalt pavement in accordance with Section 315 of the VDOT Road and Bridge Specifications: Asphalt Concrete Pavement.

3.6 APPLICATION OF TACK COAT

- A. Place the tack coat in accordance with Section 310 of the VDOT Road and Bridge Specifications: Tack Coat.

3.7 PROTECTION

Protect the asphaltic concrete paved areas from traffic until the sealer is set and cured and does not pick up under foot or wheeled traffic.

3.8 FINAL CLEAN-UP

Remove all debris, rubbish, and excess material from the work area.

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