

SECTION 02500  
PAVING AND SURFACING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope

1. Furnish and install full depth hot mix asphalt (HMA) pavement for access road, interior roads, parking area and other areas as indicated on the Drawings
2. Furnish and install aggregate base course (ABC) shoulder on access and interior roadways as shown on Drawings or otherwise specified
3. Miscellaneous items of paving and surfacing Work

B. Additional Requirements Specified Elsewhere

1. Section 01010: Summary of Work
2. Section 01340: Shop Drawings, Product Data, and Samples
3. Section 01400: Quality Control
4. Section 01500: Construction Facilities and Temporary Controls

C. Related Requirements Specified Elsewhere

1. Section 02200: Earthwork
2. Pikes Peak Region Asphalt Paving Specifications

1.2 QUALITY ASSURANCE

A. Reference Standards

1. "Pikes Peak Region Asphalt Paving Specifications", latest edition, referenced to herein as "Standard Specifications"
  - a. Incorporated into the Contract Documents as if physically attached and bound hereto for those sections referenced herein
  - b. Each Bidder/Contractor responsible for procuring sufficient copies for use in bidding and construction of the project
  - c. Owner and/or Engineer will not furnish copies
  - d. Copies are available for examination at the office of the Engineer during regular business hours

1.3 SUBMITTALS

- A. Test Reports: Perform and submit test reports for the following products in accordance with above general reference standards and specific standards set forth hereafter

- B. Proposed Mix Design: Prior to commencing paving work, submit and obtain Engineer's approval of certified test report describing proposed hot bituminous pavement mix design including
  - 1. Aggregates: Source, type, gradation, deleterious substances and saturated surface dry specific gravity (ASTM C128)
  - 2. Bituminous materials
  - 3. Filler materials
  - 4. Conform to Section 1.003.A. of the Standard Specifications
- C. Tack Coat Materials
- D. Aggregate Base Course
  - 1. Source
  - 2. Type
  - 3. Gradation
  - 4. Deleterious substances
  - 5. Saturated surface dry specific gravity
  - 6. Resistance value as determined by Hveem stabilometer method

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE AND DESIGN REQUIREMENTS

- A. Hot Mix Asphalt Pavement (HMA)
  - 1. Refer to Standard Specifications, Table 1.003.1
    - a. Low-Moderate
- B. Aggregate Base Course (ABC)
  - 1. Class 5 or 6 as specified by the Colorado Department of Transportation (CDOT) Specifications, latest edition
  - 2. Source of aggregate base course not designated
  - 3. Resistance value greater than or equal to 80 as determined by the Hveem stabilometer method

### 2.2 MATERIALS

- A. Aggregate Base Course (ABC)
  - 1. Conform to CDOT Standard Specification, Section 703.03, Class 5 or 6 acceptable
- B. Aggregate for Bituminous Pavement
  - 1. Conform to Standard Specification, Table 1.002.1 and 1.002.2
    - a. Grading S for HMA lifts under top wearing surface course
    - b. Grading SX for HMA top wearing surface course

C. Bituminous Materials

1. Conform to Standard Specifications, Paragraph 1.002.E
2. Conform to requirements of performance graded binder grade 64-22

D. Filler Material

1. Conform to Standard Specifications, Paragraph 1.002.B

E. Tack Coat Material

1. Conform to Standard Specifications, Paragraph 1.002.E.2
2. Emulsified asphalt tack coat

PART 3 - EXECUTION

3.1 AGGREGATE BASE COURSE (ABC)

A. Install in accordance with CDOT Specifications, Section 304, Subsections 304.01 through 304.06 on prepared subgrade

1. Place at roadway shoulder to specified cross-section within 24 hours of installation of HMA

B. Minimum Thickness

1. Shoulder section for full depth HMA: 6 inches total compacted thickness
  - a. Furnish and install final lift of ABC to conform with final lift of HMA

C. Compact to 95% of maximum density at optimum moisture content per ASTM D1557 (Modified Proctor Density) on prepared subgrade

3.2 HOT MIX ASPHALT PAVEMENT

A. Install in accordance with Standard Specifications, Section 1.004

B. Thickness of Pavement Section

1. Lower Fountain Heights: Full depth pavement section: 6.5 inches
2. Place in lifts with a maximum compacted thickness of 3 inches
  - a. Place two lifts to a minimum total thickness of 5 inches prior to commencement of major site work
  - b. Place final top lift to provide total minimum pavement thickness of 6.5 inches upon completion of all major work at the site
    - 1) Consult with Owner and Engineer to reach agreement on date of final HMA lift

### 3.3 TACK COATS

A. Install in accordance with Standard Specifications, Paragraph 1.004.J.

1. Required adjacent to existing HMA pavement and concrete surfaces

END OF SECTION