

SPECIFICATIONS - DETAILED PROVISIONS
Section 02513 - Asphalt Concrete Paving

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SECTION 02513
Asphalt Concrete Paving

PART 1 - GENERAL

1.01 DESCRIPTION

The Contractor shall furnish all tools, equipment, materials, and supplies and shall perform all labor necessary for the furnishing, placing, and compacting of asphalt concrete work and base to the lines, grades, and dimensions shown on the drawings and as specified herein. Conform to applicable requirements of Conditions of Contract.

A. Work Included. Principal items are:

1. Class 2 base.
2. Wooden headers.
3. Fine grading.
4. All asphalt concrete pavement including dikes or berms.
5. All incidental asphaltic prime coats and tack coats.
6. Coal tar sealer.

1.02 QUALITY ASSURANCE

Quality assurance includes the requirements of this specification and/or as otherwise shown on the drawings; the entire work shall be in compliance with the provisions of the latest California Department of Transportation Caltrans Standard Specifications and, where appropriate, the Riverside County Transportation Department.

In case of conflict between any requirements set forth in this section and any provisions of said standard specifications, the most stringent requirement will govern. Where otherwise specified in the Special Provisions or on the drawings, those requirements shall govern.

PART 2 - PRODUCTS

2.01 AGGREGATE BASE COURSE

Aggregate Base Course shall be Class II aggregate base. The aggregate base course shall be the thickness shown on the plans and shall be placed in maximum 4" lifts. Aggregate base course shall be compacted to 95% of maximum compaction, as specified by ASTM D-1557. Aggregate base course shall be furnished, spread and compacted, as specified for Class II Aggregate Base Course in the Standard Specifications, State of California, Department of Transportation, latest edition. A spreader box will not be required but care shall be taken to prevent segregation during placement.

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2.02 ASPHALT CONCRETE

Asphalt concrete shall conform to the requirements of Caltrans Standard Specifications Section 39, for Type "B". Aggregate will conform to a grading for 1/2" maximum aggregate with paving grade asphalt PG 64-10 (Section 92) unless otherwise directed by the Engineer.

2.03 ASPHALT BINDER

Asphalt binder to be mixed with aggregate shall be paving asphalt PG 70-10 or liquid asphalt (Section 93) in accordance with Caltrans Standard Specifications 39, 92, and 93. Paving asphalt to be mixed with aggregate shall be steam-refined asphalts.

2.04 PRIME COAT

When indicated on the Plans or in the Special Provisions, a prime coat consisting of Grade SC-250 liquid asphalt shall be applied in accordance with Caltrans Standard Specification Sections 39 and 93.

2.05 PAINT BINDER

Liquid asphalt for paint binder shall conform to the provision of Caltrans Standard Specification Section 93.

2.06 TACK COAT

Tack coat shall be Type SS1H grade Anionic Asphaltic Emulsion as per Caltrans Standard Specification Section 94.

2.07 SEAL COAT

Seal coat shall be a Bituminous Fog Seal in accordance with Caltrans Standard Specification Section 37.

2.08 DIKES OR BERMS IN PLANT-MIXED SURFACING

Where shown on the contract drawings, dikes or berms shall be constructed along the edges of the pavement.

2.09 WOODEN HEADERS

Where indicated at edges of asphalt concrete pavement, 2" x 4" redwood headers shall be construction grade as per California Redwood conforming to the requirements of Caltrans Standard Specification Sections 57 and 58.

PART 3 - EXECUTION

3.01 GENERAL

Asphalt concrete paving shall conform to the latest Caltrans Standard Specifications, unless otherwise specified.

3.02 PLACEMENT

Included in the placement of the asphalt concrete paving is all fine grading for paving; placement of header boards; subgrade preparation; trimming and preparation of adjoining pavement; prime coat, asphalt concrete paving materials; placing, spreading, and rolling; seal-coating; and clean-up. No ponding of water on finish surface will be permitted.

3.03 TEMPORARY PAVING

When temporary paving is required the paving shall be spread either with a District approved spreader or a grader and compacted so there is a smooth transition from the undisturbed paving and the temporary paving. The temporary paving shall be maintained to provide a smooth transition as described above until such time that the permanent paving is placed.

Prior to placing the temporary paving, the Contractor shall level and compact the backfill on which the temporary paving is to be placed. Temporary paving shall be placed as soon as the condition of the backfill is suitable to receive it and shall remain in place until the condition of the backfill is suitable for permanent paving. The grade of the backfill on which the temporary paving is to be placed shall be such as to provide a full thickness of temporary paving specified.

3.04 PRIME COAT

The prime coat shall be uniformly applied over areas designated at the applicable rate of 0.25 gallons per square yard, unless the Engineer specifies a different application rate at the time of the work.

3.05 ASPHALT CONCRETE PAVING

Asphalt concrete paving, as shown on the drawings, shall be constructed over a completed and primed subgrade; construction shall conform to the applicable requirements of Caltrans Standard Specification Section 39.

When more than 1 lift of asphalt paving is required the Contractor may place the first (1st) lift with a District approved spreader box or a self propelled paving machine meeting the requirements of Caltrans Standard Specification Section 39.

3.06 TACK COAT

Application of tack coat shall be in conformance with the applicable requirements specified in Caltrans Standard Specification Section 94. Tack coat shall be applied to all vertical surfaces of walls, headers, concrete slabs, pavement joints, and similar faces against which asphalt concrete pavement is to be placed. Tack coat to be applied at rate of 0.1 gallons per square yard.

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3.07 WOODEN HEADERS

Wooden headers shall be 2" x 4" construction grade California Redwood, with redwood side stakes 12" -- 2" x 4" set at a maximum of 6' on centers, at all locations where the vertical edges of the proposed asphalt pavement are not in contact with an existing pavement or permanent structures. Headers shall remain in place upon completion of work.

3.08 SEAL COAT

Seal coat shall be applied 6 to 10 weeks after the asphalt is laid. One application of 0.05 to 0.10 gallons per square yard will be required. All other conditions and/or methods of application shall be in accordance with Caltrans Standard Specification Section 37.

END OF SECTION 02513