

CONSTRUCTION STANDARD SPECIFICATION
SECTION 02578
ASPHALT CONCRETE OVERLAY PREPARATION

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PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Preparation of existing pavement structure to receive overlay of asphalt concrete.
- B. Related Sections: Refer to Section 02510, "Asphalt Concrete Pavement" for requirements of asphalt concrete pavement to overlay existing pavement structure.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - D1190 Specification for Concrete Joint Sealer, Hot-Poured Elastic Type.
 - D3405 Specification for Joint Sealants, Hot-Poured, for Concrete and Asphalt Pavements
- B. City of Albuquerque "Standard Specifications for Public Works Construction"
 - Section 331 Asphalt Concrete Overlay

1.03 DEFINITIONS

Asphalt Concrete Overlay: Placement and compaction of one or more courses of asphalt concrete over existing pavement structure. Overlay generally includes leveling course, to correct contour of old pavement, followed by uniform course or courses to provide needed thickness.

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Section 01330, "Submittal Procedures".
- B. Product Data: Submit product data for cracking sealant.

1.05 PROJECT CONDITIONS

- A. Do not place crack sealant during wet or inclement weather.
- B. Ambient temperature shall be 40 degrees F (4 degrees C) and rising before crack sealant is placed.
- C. Apply crack sealant when wind conditions are such that satisfactory seal can be achieved.
- D. Existing pavement surface temperature shall be above 32 degrees F (0 degrees C) when applying crack sealant.

PART 2 - PRODUCTS

2.01 MATERIALS

Cracking Sealant: ASTM D3405 or ASTM D1190.

PART 3 - EXECUTION

3.01 PREPARATION

- A. General: Thoroughly clean surfaces to be in contact with new asphalt concrete overlay.
 - 1. Clean flat surfaces with rotary power brooms, or high velocity compressed air methods.

Clean paved areas showing signs of surface erosion or raveling that do not require removal in this manner.
 - 2. Wash or flush as necessary to remove clay or dirt.
 - 3. Rough, high spots or over-asphalted areas shall be brought to grade by burning or blading.

- B. Crack Sealing: Application methods shall control sealant material within crack to depth of 1/4 inch (6.4 mm) below existing pavement surface.
 - 1. Cracks with average clear opening of less than 1/2 inch (12.7 mm): Route to provide minimum sealant reservoir of 1/2 inch (12.7 mm) wide by 3/4 inch (19.1 mm) to 1 inch (25.4 mm) in depth.
 - 2. Cracks with average clear opening of 1/2 inch (12.7 mm) or greater: Clean with high velocity compressed air to depth of 3/4 inch (19.1 mm) to 1 inch (25.4 mm).
 - 3. Clean overflow of sealant material from pavement surface.
- C. Patching: Repair areas of severe cracking or subgrade failure to full depth of asphalt, prior to asphalt overlay.
 - 1. Extend asphalt removal minimum 12 inches (304.8 mm) into satisfactory pavement surrounding area to be patched.
 - 2. Repairs should be square-edged and cuts rectangular in shape.
 - 3. Apply tack coat to vertical faces of pavement.
 - 4. Backfill patches with asphalt pavement mix specified in Section 02510, "Asphalt Concrete Pavement."

Comply with compaction and surface tolerance requirements specified for asphalt concrete pavement.

3.02 CLEANING

Keep the premises free from accumulations of waste materials, rubbish, and other debris resulting from the Work

END OF SECTION