

SECTION 02741

BITUMINOUS CONCRETE PAVING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hot bituminous concrete paving.
- B. Portland Cement Concrete Sidewalk

1.02 RELATED SECTIONS

- A. Section 02315 - Excavation and Backfill.
- B. Section 02317 - Trenching.
- C. Section 02772 - Curbing.
- D. Section 03300 - Concrete.

1.03 REFERENCES

- A. State of Maine Department of Transportation Standard Specifications Highways and Bridges, latest revision (for Hot Mix Asphalt (HMA) pavement designations), hereafter designated as Maine DOT specifications.

1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with Maine DOT Section 403
- B. Mixing Plant: Conform to Maine DOT Section 401.
- C. Pavement Proof Rolling Inspection.
- D. Pavement Surface Smoothness Testing
- E. Obtain materials from same source throughout.

1.05 REGULATORY REQUIREMENTS

- A. Conform to applicable code for paving work on public property.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Weather and seasonal limitations as required by Maine DOT Section 401.07 shall apply to this Section.

1.07 TESTS

- A. Submit proposed mix design of each class of mix for review prior to commencement of work.
 - 1. Mix design must be for current year.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Asphalt Cement: Maine DOT Section 702
- B. Hot Bituminous Pavement: Maine DOT Section 401.02 Through 401.06
- C. Mineral Filler: Maine DOT Section 703.
- D. Emulsified Bituminous Sealing Compound: Maine DOT Section 702.12
- E. Joint Mortar: Maine DOT Section 705.02

- F. Tack Coat: Emulsified asphalt for tack coat shall conform to Maine DOT Section 702.
- G. Portland Cement Concrete Sidewalks: Maine DOT Section 608.

PART 3 EXECUTION

3.01 EXAMINATION

- A. BITUMINOUS CONCRETE PAVING
 - 1. Verify that compacted subgrade is dry and ready to support paving and imposed loads.
 - 2. Verify gradients and elevations of base are correct.
 - 3. Beginning of installation means acceptance of substrate.

3.02 PREPARATION AND PLACEMENT

- A. Prepare and place plant mix hot bituminous pavement in accordance with Maine DOT Sections 301 and 401

3.03 SIDEWALK

- A. Portland Cement Concrete Sidewalks: Conform to requirements of Maine DOT Section 608.03 with the exception that finish shall be a broom finish with 2" troweled edge.

3.04 TOLERANCES

- A. Flatness: Maximum variation of 3/16 inch measured with 10 foot straight edge.
- B. Compacted Thickness: Conform to requirements of Maine DOT Section 401.17
- C. Compacted Density: Average minimum density of 92% of theoretical maximum density (ASTM D-204).
- D. Variation from True Elevation: Maximum variation from true design elevation 1/4 inch.
- E. Areas which pond water for longer than 24 hours will be cut out and replace with hot mixed asphalt at no cost to the owner.
- F. FIELD QUALITY CONTROL
 - 1. Owner shall provide field inspection and testing. Owner shall take samples and perform tests in accordance with Maine DOT Specifications for mix aggregate gradation and asphalt content and 2 cores for compacted density.
 - 2. If tests indicate work does not meet specified requirements, remove work, replace and retest at no cost to the Owner.
- G. PROTECTION
 - 1. Immediately after placement, protect pavement from mechanical injury for 5 days.

END OF SECTION 02741