

SECTION 02513ABITUMINOUS CONCRETE PAVINGPART 1 - GENERAL1.1 DESCRIPTION

A. Work Included:

1. Furnish all plant, labor, equipment and materials required to install bituminous concrete pavement courses, including sidewalks, driveways, temporary and permanent trench paving as shown on the Drawings and as specified herein.
2. Remove bituminous asphaltic and/or Portland cement pavement, and replace bituminous asphaltic pavement, including temporary pavement, within the area(s) shown on the Drawings and as directed by the Engineer.
3. Keep pavement removal to a minimum width suitable for the required construction.

B. Work Not Included: Removal and replacement of paving for the convenience of the Contractor will not be considered for payment.

C. Related Work Specified Elsewhere:

1. Excavation, backfill, aggregate base and subbase.

1.2 QUALITY ASSURANCE

A. Materials: Use only materials furnished by a bulk bituminous concrete producer regularly engaged in the production of hot mixed, hot laid bituminous concrete.

B. Equipment: Provide, maintain and operate pavers, dump trucks, tandem, 3-wheel and pneumatic tired rollers well suited to the mixtures being placed. Provide, maintain and operate hand equipment as required. When applicable, provide, maintain and operate trimming equipment and materials.

C. Mix Requirements, Method of Placement and Compaction: All mixes shall conform to the State of Maine Department of Transportation's (D.O.T.) SUPERPAVE mix standards.

1.3 SUBMITTALS

A. A Job Mix Formula approved by the State of Maine Department of Transportation's Central Laboratory in Bangor shall be submitted for each mixture to be supplied at least 15 calendar days prior to production.

B. Delivery slips shall be furnished with each load of mix delivered to the project. Information shall include:

1. Vehicle identification.
2. Date.
3. Project.
4. Identification of material.
5. Gross, tare and net weights.
6. Signed by the bituminous concrete producer.
7. Stamped by a licensed public weighmaster.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Hot Bituminous Paving Mix:
 - 1. Sidewalks and Drives - Maine D.O.T. Type 9.5 mm Superpave Mix
- B. Composition of Mixtures - Control Points

SIEVE SIZE	PERCENT BY WEIGHT PASSING - COMBINED AGGREGATE
	TYPE 9.5 mm
37.5 mm	
25 mm	
19 mm	
12.5 mm	100
9.5 mm	90-100
4.75 mm	-90
2.36 mm	32-67
1.18 mm	-
0.60 mm	-
0.30 mm	-
0.075 mm	2-10

- C. Tack Coat:
 - 1. Emulsified type, Grade RS-1, CRS-1, HFMS-1, CSS-1, 1h

PART 3 - EXECUTION

3.1 GENERAL

- A. Grade Control:
 - 1. The Contractor shall establish and maintain the required lines and grades, including crown and cross-slope, for each course during construction operations.
- B. Reset all existing manholes, catch basins, utility boxes, etc. to finished grade as required at no additional cost to the Owner.

3.2 PAVEMENT REMOVAL

- A. General:
 - 1. Exercise extreme care in the removal of pavement so that adjacent pavement to remain will not be unnecessarily disturbed or destroyed.
 - 2. Mechanically cut pavement to be removed to a straight line, unless otherwise directed by the Engineer.
 - 3. All pavement removed shall become the property of the Contractor and shall be legally disposed of at locations at no additional cost to the Owner.

3.3 SURFACE PREPARATION

- A. Tack coats shall conform to Section 410 of the Maine D.O.T. Standard Specifications.
- B. Tack Coat:
 - 1. Apply to contact surfaces of previously constructed asphalt or Portland cement concrete and surfaces abutting or projecting into asphalt concrete pavement. Distribute at rate of 0.05 to 0.15 gallons per square yard of surface.

3.4 WEATHER AND SEASONAL LIMITATIONS

- A. Hot Mix Asphalt Pavement used for curb, driveways, sidewalks, islands, or other incidentals is not subject to seasonal limitations, except that conditions shall be satisfactory for proper handling and finishing of the mixture. Unless otherwise specified, the Contractor shall not place Hot Mix Asphalt Pavement on a wet or frozen surface, and the air temperature shall be 2°C or higher.

3.6 PLACING THE MIX

- A. General:
 - 1. Place asphalt concrete mixture on prepared surface. Minimum allowable temperature for placing is 225°F. Maximum shall be 325°F. Place in areas inaccessible to paving machine and small areas by hand. Place each course to required grade, cross-slope and compacted thickness.
- B. Protection:
 - 1. After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened to the extent that the pavement will not be damaged.

END OF SECTION