

SECTION 02514 – ASPHALT CONCRETE PAVING

1. GENERAL

1.1 SCOPE

- A. Work Included: Perform all work necessary and required for the construction of the project as indicated. Such work includes but is not limited to the following:
 - 1. Base course or wearing binder.
 - 2. Asphalt surface sealer.
 - 3. Asphalt concrete paving.
- B. Related Work in Other Sections: The following items of associated work are included in other sections of these specifications:
 - 1. Earthwork
 - 2. Portland cement concrete paving
 - 3. Concrete work

1.2 QUALITY ASSURANCE

- A. Codes and Standards: Comply with:
 - Maryland Department of Transportation
 - State Highway Administration
 - Standard Specifications for Construction Materials
 - 2001 or latest Edition & Addendums
- B. Testing: Materials and installed work may require testing and retesting as directed by Architect at any time during progress of work. Allow free access to material stockpiles and facilities. Retesting of rejected materials and installed work shall be done at no additional cost to Owner.

1.3 SUBMITTALS

Material Certificates: Provide copies of materials certificates signed by material producer and contractor, certifying that each material item complies with, or exceeds, specified requirements.

1.4 JOB CONDITIONS

- A. Job Site
 - 1. Maintain access for vehicular and pedestrian traffic as required for other construction activities.
 - 2. Utilize flagmen, barricades, warning signs and warning lights as required.
- B. Weather Limitations:
 - 1. Prime coat and asphalt concrete surface course shall not be applied when the air temperature is below 50 degrees F and falling, but may be applied when the air temperature is above 50 F and is rising, the air temperature being taken in the shade and away from artificial heat. Do not apply when base is wet or contains an excess of moisture.
- C. Grade Control: Establish and maintain required lines and elevations.

2. PRODUCTS

2.1 MATERIALS

- A. Asphalt Cement: In accordance with Maryland Department of Transportation standards.

- B. Primer: In accordance with Maryland Department of Transportation standards.
- C. Tack Coat: In accordance with Maryland Department of Transportation standards.
- D. Binder Course: In accordance with Maryland Department of Transportation standards.
- E. Wearing Course: In accordance with Maryland Department of Transportation standards.

3. EXECUTION

3.1 INSTALLATION

- A. Verify base conditions under provisions of Section 02200.
- B. Verify that compacted granular base is dry.
- C. Verify gradients and elevations of base are correct.
- D. Apply primer in accordance with manufacturer's instructions.
- E. Apply tack coat in accordance with manufacturer's instructions.
- F. Apply tack coat to contact surfaces of curbs and gutters.
- G. Coat Surfaces of catch basin frames with oil to prevent bond with asphalt pavement. Do not tack coat these surfaces.
- H. Place asphalt binder course within 24 hours of applying primer or tack coat.
- I. Place wearing course within two hours of placing and compacting binder course.
- J. Place wearing course of compacted thickness (2 inch minimum to 4 inch maximum) to proposed flowline elevations as indicated on the plans.
- K. Compact pavement by rolling. Do not displace or extrude pavement from position. Hand compact in areas in accessible to rolling equipment.
- L. Develop rolling with consecutive passes to achieve even and smooth finish, without roller marks.
- M. Flatness: maximum variation of $\frac{1}{4}$ inch measured with 10 foot straight edge.
- N. Scheduled Compacted Thickness: Within $\frac{1}{4}$ inch.
- O. Variation from True Elevation: Within $\frac{1}{2}$ inch.
- P. Immediately after placement, protect pavement from mechanical injury for 5 days.

3.2 SCHEDULES

- A. Asphalt pavements to be in accordance with details and templates on plans.

END OF SECTION 02514