



**DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242**

ADDENDUM NO. 6 TO PROJECT NO. 46194

**CONSTRUCTION, HVAC, PLUMBING AND ELECTRICAL WORK
PROVIDE STATION BUILDING
STATE POLICE
NY STATE ROUTE 295
CHATHAM, NY**

April 26, 2024

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION WORK SPECIFICATIONS

1. SECTION 321216 ASPHALT PAVING JOINT SEALERS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 321216-1 thru 321216 – 4) noted “REVISED 04/26/2024”.

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 321216
ASPHALT PAVING

PART 1 GENERAL

1.01 REFERENCES

- A. New York State Department of Transportation (DOT) Specification section 400 dated January 1, 2023.
- B. AASHTO: M-288-17 Section A6, Paving Fabric.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Earthwork: Section 310000.
- B. Pavement Marking: Section 321723.

1.03 SUBMITTALS

- A. Product Data:
 - 1. Paving Synthetics: including Manufacturer's name, specifications, MSDS as required and installation instructions (including adhesion type and rate) for each item specified.
 - 2. Asphaltic Pavement: Include mix design from NYSDOT approved Batch Plant, Mix Design Test results that are less than 6 months old
- B. Submit an Environmental Product Declaration (EPD) from the manufacturer for asphalt this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
 - 1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services*.
- C. Batch plant name, NYSDOT Plant Number, and location of asphalt plant.
- D. Pavement Quality Control Submittals: Material Delivery Tickets
 - 1. At the time of delivery, a copy of the delivery ticket must be presented to the Director's Representative with the following minimum information:
 - a. Ticket Number.
 - b. Plant Identification.
 - c. Project Name.
 - d. Mix Type.
 - e. Quantity of material in vehicle.
 - f. Date and Time.

1.04 PROJECT CONDITIONS

- A. Environmental Requirements:
1. Discontinue paving when surface temperatures fall below requirements listed in DOT Table 404-1 unless otherwise specified in the General Conditions of this Contract or as directed by the Director's Representative.
 2. Do not place asphalt concrete on wet surfaces, or when weather conditions otherwise prevent the proper handling or finishing of bituminous mixtures as determined by the Director's Representative.
 3. Pavement is restricted by dates listed in the General Conditions or by temperatures.

PART 2 PRODUCTS**2.01 MATERIALS**

- A. All aggregate used in design mixes shall be as specified in DOT Specification Section 401-2.02 B.; Coarse Aggregate Type F2 Conditions.
- B. Asphalt: Use aggregate and PG binder from suppliers listed in the NYS DOT's Approved List for Fine and Coarse Aggregates and Performance Graded (PG) Binders for Warm Mix Asphalt (WMA) Technology for paving respectively. Use of mineral filler or any other materials for the production of asphalt will be accepted in accordance with the State's written instructions.
1. PG Binder for this project shall be PG 64S-22 (Standard) meeting the requirements of AASHTO M 332, *Standard Specification for Performance Graded Asphalt Binder using Multiple Stress Creep Recovery (MSCR)*, for the production of asphalt mixtures for this project. Terminal Blend Crumb Rubber modifier may be used for this PG binder.

When terminal blend CRM PG binder is used, the following shall apply:

 - Crumb rubber particles shall be finer than #30 sieve size.
 - The CRM PG binder shall be storage-stable and homogeneous.
 - The Dynamic Shear Rheometer (DSR) shall be set at 2-mm gap.
 - The CRM PG binder shall be 99% free of particles retained on the 600 µm sieve as tested in accordance with Section 5.4 of M 332.

Use of polyphosphoric acid (PPA) to modify the PG binder properties is prohibited for mixtures under this contract. This prohibition also applies to the use of PPA as a cross-linking agent for polymer modification.
- C. Supply approved asphalt mixtures that meet the requirements of NYS DOT MM 5.16 *Superpave Hot Mix Asphalt Mixture Design and Mixture Verification Procedures*. Each mixture must be obtained from a single plant for the duration of the project. The following NYS DOT items only shall be utilized for this project:
1. 9.5 Top Course Asphalt.
 2. 25.0 Binder Course Asphalt.
 3. 37.5 Base Course asphalt.

4. Trueing & Leveling Course: DOT Table 401-1 *Composition of Asphalt Mixtures*, Type 5 (Shim).
- D. Reclaimed Asphalt Pavement (RAP) will not be accepted.
 - E. Asphalt Cement Tack Coat.

PART 3 EXECUTION

3.01 PRE-CONSTRUCTION MEETING

- A. The Director's Representative will conduct a Pre-Paving meeting prior to any Asphalt placement. The attendance at this meeting will include Contractor's Paving Superintendent, Chief Inspector or Paving Inspector(s), Asphalt plant representative, density gauge operator, depending on the compaction method used, and work zone traffic control (WZTC) competent person (if applicable). The contractor's Paving Superintendent must be prepared to discuss the operation necessary to complete the work successfully. Participants will review all aspects of the project requirements including, but not limited to, the following:
 1. Asphalt delivery temperature.
 2. Equipment and setup.
 3. Mix codes to ensure the correct mix is delivered.
 4. Frequency of testing.
 5. Density Gauge operator certification.
 6. Proper construction practice to provide quality product.
 7. Work zone traffic control activities necessary.

3.02 ASPHALT PAVING PLACEMENT & COMPACTION

- A. Prepare existing surfaces in accordance with DOT Section 404-3.05, *Conditioning of Existing Surface*.
- B. Apply Tack Coat in accordance with DOT Section 407-3.02, *Application of Tack Coat*, specifically Table 407-1 – Tack Coat Application Rates. The rates listed are recommended application rates for tack coat on various surfaces and may be modified by the Director's Representative.
- C. Spread and Finish asphalt in accordance with DOT Section 404-3.06, *Spreading and Finishing*.
- D. Provide compaction of asphalt in accordance with DOT Section 404-3.07, *Compaction*.
 1. Paragraph D. 80 Series Compaction Methods, specifically meeting the minimum requirements as shown in Table 404-3 Number of Passes. The Director's Representative may increase or decrease the number of passes to obtain adequate density of the compacted HMA.
 2. The Director's Representative may also approve alternate compaction procedures where the specified procedures are not applicable.

3. Testing to be performed at the direction of and in locations chosen by the Director's Representative. Target compaction is 95% (92% - 97% range is acceptable).
- E. Asphalt joints shall be in accordance with DOT Section 404-3.09, *Joints*.
 - F. Construct each pavement course to a 1/4" surface tolerance. The Director's Representative may test the surface with a 16-foot straight edge or string line placed parallel to the centerline of the pavement and with a 10-foot straight edge or string line placed transversely to the centerline of the pavement on any portion of the pavement. Variations exceeding 1/4 inch will be appropriately corrected or the pavement be removed and replaced at no additional cost to the State.
 - G. The allowable thickness tolerance of all asphalt mixtures shall be:
 1. 1/4 inch or less when the total nominal thickness indicated on the plans is 4 inches or less.
 2. 1/2 inch or less when the total nominal thickness is over 4 inches but not more than 8 inches.
 3. When the asphalt mixture is placed on newly constructed subbase material, an additional tolerance of 1/4 inch will be allowed both in the nominal thickness of the course placed directly on the subbase and the total pavement thickness.
 - H. Remove and restore paved areas that are defective or contaminated as delineated by the Director's Representative at no additional cost to the State.
 - I. Do not clean tools and equipment used for asphalt placement on the pavement surface, or near streams, ponds, drainage structures or other areas that are tributaries to waterways. Use an area approved by the Director's Representative for cleaning all paving equipment and tools.
 - J. Once pavement cures for a minimum of 24 hours, apply pavement markings with mechanical equipment to a minimum wet film thickness of 15 mils (0.4 mm), or as specified by the Manufacturer if greater.

END OF SECTION