

PAVEMENT NOTES

RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Technical Specification Sections, apply to this Section.

SUMMARY

- B. Establish the location of pavement markings and apply pavement markings, pavement markers and reflectorized material on specified pavements and eradicate existing pavement marking as necessary to provide for the safe direction of the traveling public, in accordance with these specifications, MUTCD and as directed by the Engineer.

PAINT

- A. Yellow Traffic Zone Paint, Reflectorized Fast Drying shall be an alkyl resin paint for use in traffic marking on highways, on which glass beads will be applied.
- B. The pigmented binder shall provide the proper anchorage and refraction for glass beads when both binder and spheres are applied.

EQUIPMENT

- A. The line painting machine shall be of the hot-paint, pressurized spray type, capable of spraying the paint directly upon the pavement surface with a uniformity of feed through nozzles for the various specified widths from 4 through 8 inches.

GENERAL

- A. All pavement markings shall present a uniform appearance and be clearly visible during day and night. Pavement markings which fail to provide a uniform appearance and be clearly visible during day and night shall be corrected by the Contractor, in a manner approved by the Engineer at no additional cost to the Owner.
- B. Except as otherwise specified, pavement line markings shall be 4 inches wide and shall conform to the lines and dimensions as shown on the Drawings.
- C. Markings which will track prior to drying shall be protected from traffic.
- D. The Contractor shall be responsible for the complete preparation of the roadway pavement surface for his work, including the removal of dust, dirt and other foreign matter, immediately prior to the installation of pavement marking material. The Contractor shall not apply paint during inclement weather or immediately thereafter when the pavement surface is such that a quality line cannot be obtained, as determined by the Engineer.
- E. Paint shall be dispensed in wet film thickness of 15 mils, ± mil.
- F. Glass beads shall be applied at a rate of 6 pounds per gallon of paint.

ERADICATION OF PAVEMENT MARKINGS

- G. All markings which may conflict with desired traffic movement, as determined by the Engineer, shall be eradicated as soon as practicable, either immediately prior to shifting of traffic or immediately thereafter and prior to conclusion of that work day during which the shift is made.
- H. The use of paint or asphaltic liquids will not be permitted for obliteration of pavement marking unless specifically authorized by the Engineer as an overnight or weekend temporary measure. Temporary obliteration will not be measured for payment.
- I. Eradication shall be performed by hydro-blasting or such other method as will completely and permanently obliterate all marking to the extent that the resulting finish will not delineate the previous markings under any lighting or weather conditions. The method used shall not materially damage the surface or texture of the pavement. Any damage caused by the Contractor's operations shall be corrected at the Contractor's expense and in a manner approved by the Engineer.
- J. The Contractor shall protect the public from any damage due to his operations shall be corrected at the Contractor's expense and in a manner approved by the Engineer.
- K. The Contractor shall protect the public from any damage due to his operations. Sand, water, dust or other residue resulting from the eradication operations shall be removed as the work progresses.

RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Technical Specification Sections, apply to this Section.

SUMMARY

- A. Provide, haul, place, compact, and shape to conform to lines, grades, depth, and typical sections shown on the Drawings. Aggregate base course material and surface asphalt pavement as herein specified. The contractor shall provide the plant, labor, equipment, and materials in connection with the construction of a hot-mix pavement consisting of a surface course on a previously prepared base, or over an existing initial layer of asphalt, or for minor street patching and repair, complete, in strict accordance with this specification and any applicable approved drawings prepared by the Engineer.

GENERAL EXCAVATION

- A. All excavation on the roadways and parking lots is to be considered unclassified except for undercut and associated backfill as specified under Section B. The Contractor shall perform all excavation to the depth indicated on the contract drawings or as otherwise specified or directed by the Engineer. All excavated material shall be used for fill or backfill shall be spotted and disposed of on the site in selected low areas or at selected disposal sites determined by the Engineer.
- B. The rough excavation shall be carried to such depth that sufficient material will be left above the designated grade to allow for compaction to within 0.2 feet of final finished subgrade. Likewise on embankments, sufficient material shall be placed above the designated grade to allow for compaction and settlement to within 0.2 feet of final finished subgrade.
- C. Excavation shall be performed at the place and indicated on the Contract Plans, to the lines, grades, and elevation shown. During the process of excavation, the grade shall be maintained in such condition that it will be well drained at all times.

GRADING

- A. The roadways and parking lots shall be graded to the grades and typical sections shown on the drawings. The Contractor shall provide any additional grading that may be required to provide a well drained, stable roadway. The roadways and parking lots shall be graded to within a tolerance of ± 0.1 feet.
- B. Prior to construction for placement of aggregate base, the roadways and parking lots subgrade shall be proof rolled with heavily loaded pneumatic-tired equipment, such as 15 or 20 ton dump trucks or scrapers. Soil deflecting excessively (in the opinion of the Engineer) under the moving load shall be undercut and replaced with compacted backfill.

AGGREGATE BASE

The aggregate base course shall consist of crushed stone, crushed or uncrushed gravel, or other similar material having hard, strong, durable particles free of adherent coatings. The aggregate base course material shall be approved by the Engineer and shall conform to the applicable specifications, Section 1010 graded within the limits of Table 101-1 Contractor shall provide the Engineer with certifications and/or test results verifying the conformance of the proposed aggregate to the applicable specifications and requirements.

ASPHALT PAVEMENT

- A. The pavement shall be NCDOT bituminous concrete and the materials and mix shall conform to NCDOT Specifications Section 1020.

PRIME COAT

- A. Prime coat material shall be in accordance with the NCDOT Standard Specifications, Section 1020, Bituminous Materials.

PLACEMENT OF AGGREGATE BASE MATERIAL

- A. The aggregate base course shall be applied upon a properly constructed and compacted subgrade the condition of which has been approved by the Engineer and verified by proof rolling. The aggregate shall be spread with a mechanical spreader capable of placing the material to a uniform loose depth without segregation except for areas inaccessible to a mechanical spreader, where other methods approved by the Engineer may be used. Where the required compacted thickness of base is eight (8) inches or less, the base material may be spread and compacted in one layer. Where the required compacted thickness of base is more than eight (8) inches, the base material shall be spread and compacted in two (2) or more approximately equal layers. The minimum compacted thickness of any one layer shall be approximately four (4) inches.
- B. Immediately following the spreading and smoothing, all material placed shall be compacted to the full width and lines, by an approve method, to the density specified.
- C. The base material shall be compacted at a moisture content which is approximately that required to produce the maximum density. The Contractor shall dry the material or add moisture when required to provide a uniformly compacted and acceptable base.

PAVEMENT NOTES CONTINUED

RELATED DOCUMENTS

- A. The final surface of the base course shall be shaped to conform to the lines, grades and typical cross sections shown on the Drawings. When completed, the base course shall be smooth, hard, dense, unyielding and well bonded. It shall be true to the minimum required thickness within a tolerance of one-half (1/2) inch and to the required grade and cross section within a tolerance of ± 1/2 inch.
- B. The Contractor shall maintain the surface of the aggregate base course by watering, machining or rolling when necessary to prevent damage by weather, traffic or other causes.
- C. Wherever the base course is damaged or outside the required tolerances, the Contractor shall repair such defects to the satisfaction of the Engineer, restape the base course to the required line, grade and cross section and recompact the work to the required density.

PLACEMENT OF PRIME COAT

- A. All areas to receive asphalt pavement shall be provided with a prime coat prior to placement of asphalt concrete pavement.
- B. The prime material shall be applied at a rate between 0.22 and 0.40 gallons per square yard of surface. Weather limitations, application requirements, and maintenance requirements shall be in accordance with NCDOT Standard Specifications, Section 600, Prime Coat.

PLACEMENT OF ASPHALT CONCRETE PAVEMENT

- A. Base course and wearing surface layers shall be constructed in compacted thickness as indicated on the drawings. The wearing layer shall be constructed in courses weighing no more than 300 pounds per square yard. When it is necessary to place wearing layer in two courses, it shall be done in courses of approximately equal thickness. Tack coat between binder course and wearing surface shall be emulsified asphalt, Grade CRS-IH, diluted 50% with water, and applied at a rate of 0.05-0.10 gal/SY.
- B. Construction details shall be as specified in the NCDOT Standard Specifications, Section 610, Bituminous Plant Mix Pavement.
 - 1. Surface Smoothness Requirements - Surface smoothness and edge requirements shall be in accordance with the NCDOT Standard Specifications, Section 610 Bituminous Plant Mix Pavement. Deficiencies in surface smoothness shall be remedied while the material is still workable to the extent practicable; otherwise removal of a layer and its replacement shall be required. Deficiencies shall be corrected according to the requirements of NCDOT Standard Specifications, Section 610, Bituminous Plant Mix Pavements, Subparagraph 610-13, Surface Requirements.
 - 2. Placing Limitations - Limitations on placing bituminous concrete paving due to weather and other conditions shall be in accordance with Section 6104 NCDOT Standard Specifications.
 - 3. Compaction Requirements - Compaction requirements for both binder and wearing surface shall be in accordance with the requirements of these Specifications and NCDOT Standard Specifications, Section 610, Bituminous Plant Mix Pavement.
 - 4. Thickness Tolerance - Compacted thickness tolerances for binder and wearing layers shall be in accordance with the NCDOT Standard Specifications Section 610.

ADJUSTMENT OF EXISTING MANHOLES AND VALVE BOXES

- A. The base course shall be placed and constructed as required in the current North Carolina Department of Transportation (NCDOT) Standard Specifications for Streets and Highways.
- B. All drainage structures and pipes shall be properly installed at the locations shown on the plans.
- C. The surface shall be applied to subgrade and compacted as specified by the Engineer. Surfacing shall be finished by fine grading to the required lines, grades, and sections, and by compacting the subgrade with heavy rollers.
- D. The bituminous surface course shall be of the type and grade shown on the plans, and shall consist of fine and coarse mineral aggregate and mineral filler uniformly mixed with hot bituminous material placed and compacted on a prepared base course to the depth specified or as shown on the plans.
- E. Newly placed and compacted asphalt surface course shall be barricaded and protected from all defects for a period of at least eight (8) hours until they have become properly hardened by cooling. Only local traffic will be allowed to egress and ingress.
- F. The Contractor shall maintain the pavement in an acceptable condition until final acceptance of the project.

All existing manhole covers, monument boxes, valve boxes, sewer cleanout boxes, etc., shall be adjusted to match the grade of the proposed overlay.

CUTTING AND REPLACING PAVEMENT FOR UTILITY INSTALLATION OR REPAIRS

- A. Pavement shall be neatly cut to a straight edge prior to trenching operations. The cuts shall be made per the approved plans. Ragged and irregular edges shall be redone. Concrete pavement shall be cut with suitable concrete saw cutting equipment.

Revisions

Table with 2 columns: No., Description. Contains 10 empty rows for revisions.

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PAVEMENT NOTES FOR COOK OUT SHALLOTTE, NORTH CAROLINA

Date: 03-27-19
Scale: AS SHOWN
Drawn By: MGB
Checked By: JCR/ACL

PRELIMINARY FOR APPROVAL

THIS PLAN IS NOT ISSUED FOR CONSTRUCTION WITHOUT AFFIXED CORPORATE SEAL.



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