



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

November 5, 2018

CONTRACT: DB00458
WBS ELEMENT: 15402.1016020
COUNTY: CARTERET
ROUTE: SR 1125
DESCRIPTION: CULVERT REPLACEMENT/REPAIR DUE TO THE EFFECTS
OF HURRICANE FLORENCE

ADDENDUM 1

TO: PROSPECTIVE BIDDERS

Please note the following revision to the proposal.

- Revised Special Provision 06 R065 Asphalt Concrete Plant Mix Pavements.
- A revised electronic file has been uploaded to bid express and the bid letting website named "DB00358.001".

Please note the following additional Addendum acknowledgement page for the above referenced project.

Sincerely,

DocuSigned by:
Mary Voelker Moore
714C11DCCEBC4C6..

Mary Voelker Moore, PE
Division Contract Engineer

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ASPHALT CONCRETE PLANT MIX PAVEMENTS:

(2-20-18) (Rev.11-20-18)

610, 1012

SP6 R65

Revise the 2018 Standard Specifications as follows:

Page 6-17, Table 610-1, MIXING TEMPERATURE AT THE ASPHALT PLANT, replace with the following:

| TABLE 610-1 | |
|--|------------------------|
| MIXING TEMPERATURE AT THE ASPHALT PLANT | |
| Binder Grade | JMF Temperature |
| PG 58-28; PG 64-22 | 250 - 290°F |
| PG 76-22 | 300 - 325°F |

Page 6-17, Subarticle 610-3(C), Job Mix Formula (JMF), lines 38-39, delete the fourth paragraph.

Page 6-18, Subarticle 610-3(C), Job Mix Formula (JMF), line 12, replace “SF9.5A” with “S9.5B”.

Page 6-18, Table 610-3, MIX DESIGN CRITERIA, replace with the following:

| TABLE 610-3 | | | | | | | | | |
|----------------------------|--|--|--------------------------|------------------------|----------------------------|------------------------------|------------|------------------------|--|
| MIX DESIGN CRITERIA | | | | | | | | | |
| Mix Type | Design ESALs millions^A | Binder PG Grade^B | Compaction Levels | | Max. Rut Depth (mm) | Volumetric Properties | | | |
| | | | G_{mm} @ | | | VMA | VTM | VFA | %G_{mm} @ N_{ini} |
| | | | N_{ini} | N_{des} | | | | | |
| S4.75A | < 1 | 64 - 22 | 6 | 50 | 11.5 | 16.0 | 4.0 - 6.0 | 65 - 80 | ≤ 91.5 |
| S9.5B | 0 - 3 | 64 - 22 | 6 | 50 | 9.5 | 16.0 | 3.0 - 5.0 | 70 - 80 | ≤ 91.5 |
| S9.5C | 3 - 30 | 64 - 22 | 7 | 65 | 6.5 | 15.5 | 3.0 - 5.0 | 65 - 78 | ≤ 90.5 |
| S9.5D | > 30 | 76 - 22 | 8 | 100 | 4.5 | 15.5 | 3.0 - 5.0 | 65 - 78 | ≤ 90.0 |
| I19.0C | ALL | 64 - 22 | 7 | 65 | - | 13.5 | 3.0 - 5.0 | 65 - 78 | ≤ 90.5 |
| B25.0C | ALL | 64 - 22 | 7 | 65 | - | 12.5 | 3.0 - 5.0 | 65 - 78 | ≤ 90.5 |
| | | Design Parameter | | | | | | Design Criteria | |
| All Mix Types | | Dust to Binder Ratio (P _{0.075} / P _{be}) | | | | | | 0.6 - 1.4 ^C | |
| | | Tensile Strength Ratio (TSR) ^D | | | | | | 85% Min. ^E | |

A. Based on 20 year design traffic.

B. Volumetric Properties based on specimens compacted to N_{des} as modified by the Department.

C. Dust to Binder Ratio (P_{0.075} / P_{be}) for Type S4.75A is 1.0 - 2.0.

D. NCDOT-T-283 (No Freeze-Thaw cycle required).

E. TSR for Type S4.75A & B25.0C mixes is 80% minimum.

Page 6-19, Table 610-5, BINDER GRADE REQUIREMENTS (BASED ON RBR%), replace with the following:

| TABLE 610-5 BINDER GRADE REQUIREMENTS (BASED ON RBR%) | | | |
|--|-----------------------|-------------------------|----------------------|
| Mix Type | %RBR ≤ 20% | 21% ≤ %RBR ≤ 30% | %RBR > 30% |
| S4.75A, S9.5B, S9.5C, I19.0C, B25.0C | PG 64-22 | PG 64-22 ^A | PG 58-28 |
| S9.5D, OGFC | PG 76-22 ^B | n/a | n/a |

A. If the mix contains any amount of RAS, the virgin binder shall be PG 58-28.

B. Maximum Recycled Binder Replacement (%RBR) is 18% for mixes using PG 76-22 binder.

Page 6-20, Table 610-6, PLACEMENT TEMPERATURES FOR ASPHALT, replace with the following:

| TABLE 610-6 PLACEMENT TEMPERATURES FOR ASPHALT | |
|---|--|
| Asphalt Concrete Mix Type | Minimum Surface and Air Temperature |
| B25.0C | 35°F |
| I19.0C | 35°F |
| S4.75A, S9.5B, S9.5C | 40°F ^A |
| S9.5D | 50°F |

A. For the final layer of surface mixes containing recycled asphalt shingles (RAS), the minimum surface and air temperature shall be 50°F.

Page 6-23, Table 610-7, DENSITY REQUIREMENTS, replace with the following:

| TABLE 610-7 DENSITY REQUIREMENTS | |
|---|--|
| Mix Type | Minimum % G_{mm} (Maximum Specific Gravity) |
| S4.75A | 85.0 ^A |
| S9.5B | 90.0 |
| S9.5C, S9.5D, I19.0C, B25.0C | 92.0 |

A. Compaction to the above specified density will be required when the S4.75A mix is applied at a rate of 100 lbs/sy or higher.

Page 6-32, Article 610-16 MEASUREMENT AND PAYMENT, replace with the following:

| Pay Item | Pay Unit |
|---|-----------------|
| Asphalt Concrete Base Course, Type B25.0C | Ton |
| Asphalt Concrete Intermediate Course, Type I19.0C | Ton |
| Asphalt Concrete Surface Course, Type S4.75A | Ton |

