

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III
SECRETARY

March 14 2018

Addendum No. 2

RE: Contract # C204096
WBS # 34821.3.7
STATE FUNDED
Guilford County (U-2525C)
Greensboro Eastern Loop From US-29 North Of Greensboro
To SR-2303 (Lawndale Drive)

March 20, 2018 Letting

To Whom It May Concern:

The Contractor is reminded that, as mentioned in Addendum #1 and as a matter of information only, the Roadway Subsurface Recommendations Report and Recommendations Letter Report for this project have been posted on the web along with the other information for this project.

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the plans:

| Sheet No. | Revisions  |
|-----------|--|
| 2A-1      | Revised to add Note 2 to address the paving limits onto adjacent |
|           | project U-2524D  |

Please void sheet No. 2A-1 in your plans and staple the revised sheet thereto

The following revisions have been made to the proposal:

| Page No.       | Revisions  |  |
|----------------|--|--|
| Proposal Cover | Note added that reads "Includes Addendum No. 2 Dated 03-14-2018".  |  |
| R-13           | Updated the base asphalt binder price and the date in the third paragraph within the project special provision entitled "Price Adjustment- Asphalt Binder For Plant Mix" (Note: the revised baprice in Addendum No. 1 was incorrect) |  |

Mailing Address: NC DEPARTMENT OF TRANSPORTATION CONTRACT STANDARDS AND DEVELOPMENT 1591 MAIL SERVICE CENTER RALEIGH, NC 27699-1591 Telephone: (919) 707-6900 Fax: (919) 250-4127 Customer Service: 1-877-368-4968 Location: 1020 BIRCH RIDGE DR. RALEIGH, NC 27610

Website: www.ncdot.gov

| Page No.   | Revisions   |  |
|------------|---|--|
| New GT-7.1 | New page added to include the project special provision entitled "Class IV Subgrade Stabilization"        |  |
| SN-8       | N-8 Deleted section 1.2.B.10 DMS Mini Controller and revised section 1.2.E DMS Controller and DMS Cabinet |  |
| SN-20      | Revised section 1.3.H Travel Time DMS-Training  |  |

Please void the above listed pages in your proposal and staple the revised pages thereto. Please add new Page No. GT-7.1 after existing Page GT-6.13.

The contract will be prepared accordingly.

Sincerely,

- DocuSigned by:

Ronald E. Davenport, Jr.

-F81B6038A47A442...

Ronald E. Davenport, Jr., PE

**State Contract Officer** 

RED/jag Attachments

cc: Mr. Lamar Sylvester, PE

Mr. Mike Mills, PE

Mr. Ron Hancock, PE

Mr. Jon Weathersby, PE Mr. Ken Kennedy, PE

Ms. Lori Strickland

Project File (2)

Mr. Ray Arnold, PE

Ms. Theresa Canales, PE

Mr. Mike Gwyn

Ms. Jaci Kincaid

Ms. Penny Higgins

Mr. Mitchell Dixon

#### STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

#### <u>PROPOSAL</u>

# INCLUDES ADDENDUM No. 2 DATED 03-14-2018 INCLUDES ADDENDUM No. 1 DATED 03-08-2018

DATE AND TIME OF BID OPENING: MARCH 20, 2018 AT 2:00 PM

CONTRACT ID

C204096

WBS

34821.3.7

FEDERAL-AID NO. STATE FUNDED

COUNTY

**GUILFORD** 

T.I.P. NO.

U-2525C

MILES

5.265

ROUTE NO.

LOCATION

GREENSBORO EASTERN LOOP FROM US-29 NORTH OF GREENSBORO TO

SR-2303 (LAWNDALE DR).

TYPE OF WORK

GRADING, DRAINAGE, PAVING, SIGNALS, ITS, AND STRUCTURES.

#### NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

excavating, backfilling, hauling and removing excavated materials, constructing temporary walls, installing wall facing, geotextiles and drains, compacting backfill and supplying select material, separation and reinforcement geotextiles, welded wire facing, drain pipes, pipe sleeves, outlet pipes and pads and any incidentals necessary to construct alternate approach fills for integral abutments.

#### **AUTOMATED FINE GRADING:**

(1-16-96) 610 SP5 R05

On mainline portions and ramps of this project, prepare the subgrade and base beneath the pavement structure in accordance with the applicable sections of the 2018 Standard Specifications except use an automatically controlled fine grading machine using string lines, laser controls or other approved methods to produce final subgrade and base surfaces meeting the lines, grades and cross sections required by the plans or established by the Engineer.

No direct payment will be made for the work required by this provision as it will be considered incidental to other work being paid for by the various items in the contract.

#### **PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:**

(11-21-00) 620

SP6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the 2018 Standard Specifications.

The base price index for asphalt binder for plant mix is \$ 429.00 per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on March 1, 2018.

#### **ASPHALT CONCRETE PLANT MIX PAVEMENTS:**

(2-20-18) 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<br>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     |  |  |

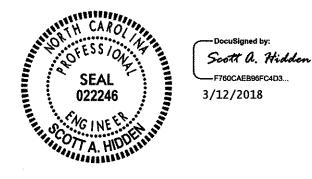
Page 6-17, Subarticle 610-3(C), Job Mix Formula (JMF), lines 38-39, delete the fourth paragraph.

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

#### **CLASS IV SUBGRADE STABILIZATION:**

(SPECIAL)

Compact Class IV Subgrade Stabilization over Geotextile for Pavement Stabilization to 97% of AASHTO T 180 as modified by the Department. This compaction requirement applies to ABC placed over Geotextile for Pavement Stabilization at locations listed in the plans on Sheet No. 3G-1 and supersedes the compaction requirement in Article 505-3 of the *Standard Specifications*.



U-2525C SN-8 Guilford County

#### 9. Display Capabilities

Design the DMS at Existing Overhead Sign Structures 'NN' and 'OO' with at least the following message displays:

- A static display, red green or amber in color with the ability to display a travel time in the following format "XX MINS".
- The color of the display is to be determined by the Engineer.

#### 10. DMS Mini Controller

Furnish and install a mini controller inside the DMS that is interconnected with the main controller using a fiber-optic cable, CAT 5 cable, or an approved alternate. The mini controller will enable a technician to perform all functions available from the main controller. Provide the mini controller with an LCD/keypad interface. Size the LCD display screen to allow preview of an entire one-page message on one screen. Provide a 4 X 4 keypad.

Alternatively, install an EIA/FIA-232E port inside the DMS enclosure to enable a maintenance technician to communicate with the DMS main controller and obtain access to and perform all functions of the main controller using a laptop computer.

#### C. DMS Enclosure Structure Mounting

Mount the DMS enclosure and interconnect system securely to the supporting signs. Design the DMS enclosure supports and structure to allow full access to the DMS enclosure inspection door. Mount the DMS enclosure according to the manufacturer's recommendations.

Submit plans for the DMS enclosure, structure, mounting description and calculations to the Engineer for approval. Have such calculations and drawings approved by a Professional Engineer registered in the state of North Carolina, and bear his signature, seal, and date of acceptance.

Provide removable lifting eyes or the equivalent on the DMS enclosure rated for its total weight to facilitate handling and mounting the DMS enclosure.

Design the DMS structure to conform to the applicable requirements of the Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th Edition, 2013, and the latest Interim Specifications.

#### D. DMS / DMS Controller Interconnect

Furnish and install all necessary cabling, conduit, and terminal blocks to connect the DMS and the DMS controller. Use approved manufacturer's specifications and the Project Plans for cable and conduit types and sizes. Use fiber-optic cable to interconnect sign and controller. Install fiber-optic interconnect centers in the sign enclosure and cabinet to securely install and terminate the fiber-optic cable. Submit material submittal cut sheets for the interconnect center.

#### E. DMS Controller and DMS Cabinet

Furnish and install one DMS controller with accessories in a protective cabinet Travel Time Dynamic Message Sign location. Mount the controller cabinet on the existing Sign support structure. Install cabinet so that the height from the ground to the middle of the

print date: 03/13/18

U-2525C SN-20 Guilford County

Install a level concrete technician pad measuring a minimum 4 inches thick, 24 inches wide and 36 inches long at the front door of the DMS equipment cabinet as shown on the Typical Details sheet within the Project Plans.

#### G. Work Site Clean-Up

Clean the site of all debris, excess excavation, waste packing material, wire, etc. Clean and clear the work site at the end of each workday. Do not throw waste material in storm drains or sewers.

#### H. Travel Time DMS - Training

Provide adequate equipment operation and setup training to the Department prior to final acceptance. The Department will provide classroom facilities for the training.

The training class shall consist of a minimum of eight (8) hours of equipment operation and setup training for a maximum of five (5) people. Provide up to five (5) Travel Time Dedicated DMS of the type being trained on to be used during the training class. These five (5) Travel Time Dedicated DMS's can be used for training before being installed in the field. Supply all instruction materials, and all teaching aids for each training class. Submit resumes of the trainers for review and approval and provide a course outline along with a copy of the teaching materials to the Engineer for review and approval prior to the training.

Deliver all software to the Department prior to the scheduled training for loading on Department-owned computer equipment to be used during the training.

#### 1.4. DMS TESTING REQUIREMENTS

#### A. General Test Procedure

Test the relocated DMS system in a series of design approval and functional tests. The results of each test must meet the specified requirements. These tests shall not damage the equipment. The Engineer will reject equipment that fails to fulfill the requirements of any test. Resubmit rejected equipment after correcting non-conformities and re-testing; completely document all diagnoses and corrective actions. Modify all equipment furnished under this contract, without additional cost to the Department, to incorporate all design changes necessary to pass the required tests.

Provide four copies of all test procedures and requirements to the Engineer for review and approval at least 30 days prior to the testing start date.

Only use approved procedures for the tests. Include the following in the test procedures:

- A step-by-step outline of the test sequence, showing a test of every function of the equipment or system tested.
- A description of the expected nominal operation, output, and test results, and the pass / fail criteria.
- An estimate of the test duration and a proposed test schedule.
- A data form to record all data and quantitative results obtained during the test.
- A description of any special equipment, setup, manpower, or conditions required by the test.

