

**ADDENDUM No. 2**

**SINGLE PRIME CONTRACT  
24" WATER MAIN RELOCATION AT DUTHCMAN CREEK  
HIGHWAY 211  
BRUNSWICK COUNTY**

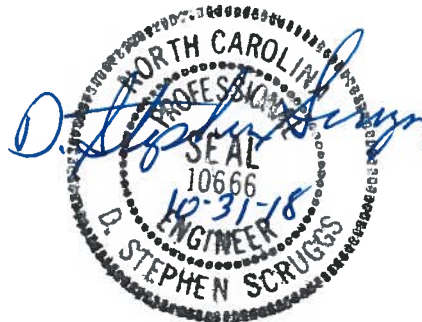
**AECOM PROJECT No. 60428203  
BID DATE: November 1, 2018  
ADDENDUM DATE: October 31, 2018**

<b>SECTION</b>	<b>DESCRIPTION</b>
<b>General</b>	This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Bidders shall acknowledge receipt of the Addendum in the space provided on the Proposal Form (F-7). Failure to do so may subject the Bidder to disqualification.
<b>NCDOT Right-of-Way Encroachment</b>	Replace the Encroachment Standard Provisions issued as part of Addendum No. 1 with the enclosed Revised Encroachment Standard Provisions.

**AECOM Technical Services of North Carolina, Inc.**

By: \_\_\_\_\_

*Steve Scruggs*  
Steve Scruggs, P.E.



## Revised Encroachment Special Provisions

- 1 Lane closures shall be restricted between 9:00 AM and 4:00 PM. NCDOT reserves the right to further limit, restrict, or suspend operations within the right of way if, in the opinion of NCDOT, safety or traffic conditions warrant such action.
- 2 It shall be the responsibility of the Encroacher to determine the location of utilities within the encroachment area. The encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and maintain accessibility to existing utilities.
- 3 Utility is to have a minimum cover of 36 inches in non-directional bore applications.
- 4 The utility trench backfill material is to be placed at a maximum 6" loose layer and each layer thoroughly compacted.
- 5 All utility installations shall be made in accordance with the Division of Highways Policies and Procedures for Accommodating Utilities on Highway Rights of Way.
- 6 Contact NCDOT prior to beginning work.
- 7 Excavated areas adjacent to pavement having more than a 2" drop shall be safed up at a 6:1 or flatter slope and designated by appropriate delineation during periods of inactivity, including, but not limited to, night and weekend hours.
- 8 The contractor shall not begin the construction until after the traffic control and erosion control devices have been installed.
- 9 Proper temporary and permanent measures shall be used to control erosion and sedimentation in accordance with all local, State and Federal regulations.
- 10 All driveways altered during construction shall be returned to a state comparable with the condition of the driveways prior to construction.
- 11 Right of Way monuments disturbed during construction shall be referenced by a registered Land Surveyor and reset after construction.
- 12 All traffic bearing splice boxes, manholes, hand holes, valves, meters and other appurtenances installed within NCDOT right of way shall be of a NCDOT approved design for HS-20 loading, shall be flush mounted and shall not be placed in the ditch line, side slopes of the ditches or in the pavement.
- 13 If encroacher is within 5' of the travel lane(s) of an undivided highway and within 10' of a divided highway with any part of his operation including but not limited to vehicles, equipment, etc., encroacher shall install a lane closure for each lane in accordance with the latest Manual on Uniform Traffic Control Devices (MUTCD).
- 14 Access shall be maintained to driveways at all times.

- 15 Trenching, bore pits and/or other excavations shall not be left open or unsafe overnight. The contractor shall comply with all OSHA requirements and provide a competent person on site to supervise excavation at all times. All trench excavations shall be completely backfilled and compacted at the end of each construction day. No portion of the trench shall be left open overnight.
- 16 All fill areas/backfill shall be compacted to 95% density in accordance with AASHTO T99 as modified by the North Carolina Department of Transportation. All material to a depth of 8 inches below the finished surface of the subgrade shall be compacted to a density equal to at least 100% of that obtained by compacting a sample of the material in accordance with AASHTO T99 as modified by the Department. The subgrade shall be compacted at a moisture content which is approximately that required to produce the maximum density indicated by the above test method. The contractor shall dry or add moisture to the subgrade when required to provide a uniformly compacted and acceptable subgrade.
- 17 Special care shall be taken to protect the traveling public during all aspects of the operation, including but not limited to bore pits, shoulder drop offs, etc.
- 18 All vehicles, equipment and supplies shall be stored outside of the clear recovery zone.
- 19 Detection tape shall be buried in the trench approximately 1 foot above the utility. Where the utility is installed in the right of way and is not of ferrous material, locating tape or detection wire shall be installed with the utility.
- 20 All NCDOT roadway signs that are removed due to construction shall be reinstalled as soon as possible to the original condition and location.
- 21 Ingress and egress shall be maintained to all businesses and dwellings affected by the project. Special attention shall be paid to police and fire stations, fire hydrants and hospitals.
- 22 No access, parking or storage of materials shall be allowed along state maintained roadways.
- 23 The party of the second part agrees to provide traffic control devices, lane closures, road closures, positive protection and / or any other warning or positive protection devices necessary for the safety of road users during construction and any subsequent maintenance. This shall be performed in accordance with the latest NCDOT Roadway Standard Drawings and Standard Specifications for Roads and Structures and amendments or supplements thereto. When there is no guidance provided in the Roadway Standard Drawings or Specifications, comply with the Manual on Uniform Traffic Control Devices for Streets and Highways and amendment or supplement thereto. Information as to the above regulations may be obtained from the Division Engineer of the party of the first part.
- 24 Work Zone Traffic Control Qualifications and Training Program: All personnel performing any activity inside the highway right of way are required to be familiar with the NCDOT Maintenance/Utility Traffic Control Guidelines (MUTCG). No specific training course or test is required for qualification in the Maintenance/Utility Traffic Control Guidelines (MUTCG). All flagging, spotting or operating Automated Flagger Assist Devices (AFAD) inside the highway right of way requires qualified and trained Work Zone Flaggers. Training for this certification is provided by NCDOT approved training resources and by private entities that have

been pre-approved to train themselves.

All personnel in charge of overseeing work zone Temporary Traffic Control operations and installations inside the highway right of way are required to be qualified and trained Work Zone Supervisors. Training for this certification is provided by NCDOT approved training resources. For questions and/or additional information regarding this training program please refer to our website at <https://connect.ncdot.gov/projects/WZTC/Pages/Training.aspx> or call J.S.(Steve) Kite, PE at (919) 622-4339 or [skite@ncdot.gov](mailto:skite@ncdot.gov) or Roger Garrett at (919) 663-4383 or [rmgarrett@ncdot.gov](mailto:rmgarrett@ncdot.gov), both with the NCDOT Work Zone Traffic Control Section.

- 25 Existing drainage patterns shall be maintained at all times throughout the proposed construction. The encroacher shall keep the roadway clean of dirt and debris at all times throughout the duration of the project.
- 26 Encroacher shall be responsible for positive flow of the ditchline and/or curb and gutter.
- 27 Additional ditching may be required throughout project and off site to achieve positive drainage. This will be done at the Developers and/or Contractors expense.
- 28 Encroacher shall contact NCDOT for a final inspection upon completion of the Encroachment. Once the final inspection has been completed and the project meets our specs, Built to Standards will be granted.
- 29 If any drainage structure (pipe) is damaged it will be at the cost of the encroachee to replace.
- 30 If there are any existing traffic signals, signal equipment, or NCDOT signs in the area of proposed work, you shall contact Division Traffic Engineer at 910-341-2200, in Castle Hayne, prior to beginning any work on State Right of Way. Cost to repair, relocate, or any damage to NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
- 31 All materials and construction shall meet NCDOT Standards and Specifications.
- 32 At the end of each working day, equipment, materials and supplies shall be parked outside of the clear recovery zone.
- 33 Any drainage structure disturbed or damaged shall be replaced to its original condition at the discretion of the District Engineer.
- 34 All erosion control devices and measures shall be constructed, installed, maintained, and removed by the Encroacher in accordance with all applicable Federal, State, and Local laws, regulations, ordinances, and policies. All earth areas shall be regraded and seeded in accordance with NCDOT Standards and Specifications.
- 35 All earth areas disturbed shall be regraded and reseeded in accordance with Division of Highways Standards and Specifications. These rates shall apply. Year round mixture of 50 # Pensacola Bahia grass, 50# KY Tall Fescue, 5# Centipede, 500# 10-20-20 Fertilizer, 4000# Limestone.( 2:1 Slopes Standard mix - Use year round mixture but delete centipede and add 25# Sericea Lespedeza. If using Crown Vetch - Use year round mixture but delete Centipede and Bahia. Add 15 lbs./Ac Crown vetch - Use this mix September - May.)

36 Trenching, bore pits and/or other excavations shall not be left open or unsafe overnight. The contractor shall comply with all OSHA requirements and provide a competent person on site to supervise excavation at all times.

37 HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For unexpected occurrence that creates unusually high traffic volumes, as directed by the Engineer.
2. For New Year's Day, between the hours of 6:00 a.m. December 31st and 7:00 p.m. January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until 7:00 p.m. the following Tuesday.
3. For Easter, between the hours of 6:00 a.m. Thursday and 7:00 p.m. Monday.
4. For Memorial Day, between the hours of 6:00 a.m. Friday and 7:00 p.m. Tuesday.
5. For Independence Day, between the hours of 6:00 a.m. the day before Independence Day and 7:00 p.m. the day after Independence Day. If Independence Day is on a Friday, Saturday, Sunday or Monday, then between the hours of 6:00 a.m. the Thursday before Independence Day and 7:00 p.m. the Tuesday after Independence Day.
6. For Labor Day, between the hours of 6:00 a.m. Friday and 7:00 p.m. Tuesday.
7. For Thanksgiving Day, between the hours of 6:00 a.m. Tuesday and 7:00 p.m. Monday.
8. For Christmas, between the hours of 6:00 a.m. the Friday before the week of Christmas Day and 7:00 p.m. the following Tuesday after the week of Christmas Day.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures are not required during these periods, unless otherwise directed by the Engineer.