



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

November 9, 2012

Addendum No. 1

RE: Contract ID C203133

WBS # 41156.3.1

Jackson County (R-5000)

New Location Connector From NC-116 To To NC-107 In Webster

November 20, 2012 Letting

To Whom It May Concern:

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. 3 (1 of 2) has been revised to reflect the below noted quantity changes. Please void Sheet No. 3 (1 of 2) in your plans and staple the revised Sheet No. 3 (1 of 2) thereto.

Sheet Nos. 3-C, 3-E, 3-F and 3-G have been revised to reflect the below noted drainage revisions. Please void Sheet Nos. 3-C, 3-E, 3-F and 3-G in your plans and staple the revised Sheet Nos. 3-C, 3-E, 3-F and 3-G thereto.

On Sheet No. 4 a new basin has been added left of approximate Station 15+25. Also, various details and drainage features associated with the new basin have been revised. Please void Sheet No. 4 in your plans and staple the revised Sheet No. 4 thereto.

On Sheet No. 6 the drainage associated with the 36" Welded Steel Pipe at approximate Station 26+50 -Y4- has been revised. Please void Sheet No. 6 in your plans and staple the revised Sheet No. 6 thereto.

On Sheet No. TMP-2A the note concerning the limits and offset of shoring for pipe installation has been revised. Please void Sheet No. TMP-2A in your plans and staple the revised Sheet No. TMP-2A thereto.

On Sheet No. TMP-4F the shoring in the area of the 36" Welded Steel Pipe has been revised. Please void Sheet No. TMP-4F in your plans and staple the revised Sheet No. TMP-4F thereto.

New Sheet Nos. RF-2 and RF-3 have been added to include details for "Streambank Reforestation". Please staple New Sheet Nos. RF-2 and RF-3 after Sheet No. RF-1 in your plans.

MAILING ADDRESS:

NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900

FAX: 919-250-4119

WEBSITE: WWW.NCDOT.ORG

LOCATION:

CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

The following revision has been made to the Structure plans:

Sheet No. W-5 has been revised to include design requirements for Retaining Wall #1 and to allow an option for SRW MSE wall. Please void Sheet No. W-5 in your plans and staple the revised Sheet No. W-5 thereto.

The following revisions have been made to the proposal:

New Page Nos. 102-A, 102-B and 102-C have been added to include the project special provision entitled "Streambank Reforestation". Please staple new Page Nos. 102-A, 102-B and 102-C after Page No. 102 in your proposal.

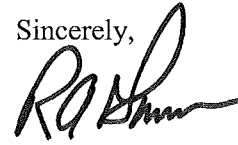
On the new item sheets the following pay item quantities have been revised or added:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
10-0134000000-E-240	Drainage Ditch Excavation	5,180 CY	5,128 CY
16-0199000000-E-SP	Temporary Shoring	20,390 SF	20,260 SF
20-0342000000-E-310	30" Side Drain Pipe	320 LF	292 LF
21-0342000000-E-310	36" Side Drain Pipe	592 LF	596 LF
24-0344000000-E-310	18" Side Drain Pipe	1,228 LF	1,264 LF
35-0448600000-E-310	36" RC Pipe Culverts, Class IV	676 LF	540 LF
38-09731000000-E-330	36"Welded Steel Pipe, 0.5" Thick, Grade B In Soil (change pipe thickness to 0.625")	75 LF	56 LF
39-09731000000-E-330	36"Welded Steel Pipe, 0.5" Thick, Grade B Not In Soil (change pipe thickness to 0.625")	75 LF	60 LF
40-0995000000-E-340	Pipe Removal	2,198 LF	2,146 LF
67-2275000000-E-SP	Flowable Fill	11.5 CY	29.01 CY
68-2286000000-N-840	Masonry Drainage Structures	127 EA	126 EA
70-2308000000-N-840	Masonry Drainage Structures	111 LF	110 LF
74-2367000000-N-840	Frame With Two Grates, STD 840.29	17 EA	16 EA
120-3628000000-E-876	Rip Rap, Class I	359 TON	342 TON
121-3649000000-E-876	Rip Rap, Class B	638 TON	611 TON
122-3656000000-E-876	Geotextile For Drainage	3,736 SY	3,641 SY
251-6126000000-E-SP	Streambank Reformation	NEW ITEM	0.35 ACR

The Contractor's bid must include this new pay item and be based on these revised pay item quantities. The contract will be prepared accordingly.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag
Attachment

cc: Mr. Ron Hancock, PE
Mr. J. B. Setzer, PE
Ms. D. M. Barbour, PE
Mr. J. V. Barbour, PE
Mr. Barney Blackburn, PE
Mr. R.E. Davenport, PE
Ms. Lori Strickland
Project File (2)

Mr. Ray Arnold, PE
Ms. Natalie Roskam, PE
Ms. Penny Higgins
Ms. Jaci Kincaid
Mr. Ronnie Higgins
Mr. Larry Strickland
Ms. Marsha Sample

STREAMBANK REFORESTATION:**Description**

Streambank Reforestation will be planted in areas designated in the contract documents and as directed. See the Streambank Reforestation Detail Sheets.

The entire *Streambank Reforestation* operation shall comply with the requirements of Section 1670 of the *Standard Specifications*.

Materials

Item	Section
Coir Fiber Mat	1060-14

Live Stakes:

Type I Streambank Reforestation shall be live stakes, planted along both streambanks. Live stakes shall be ½" - 2" in diameter. Stakes shall also be 2 ft. - 3 ft. in length.

Live staking plant material shall consist of a random mix made up of 50% Black Willow (*Salix nigra*) and 50% Silky Dogwood (*Cornus amomum*). Other species may be substituted upon approval of the Engineer. All plant material shall be harvested locally (within the same physiographic ecoregion and plant hardiness zone) or purchased from a local nursery, with the approval of the Engineer. All live stakes shall be dormant at time of acquisition and planting.

Staples, stakes, or reinforcement bars shall be used as anchors and shall meet the following requirements:

Wooden Stakes:

Provide hardwood stakes 12" - 24" long with a 2" x 2" nominal square cross section. One end of the stake must be sharpened or beveled to facilitate driving through the coir fiber mat and down into the underlying soil. The other end of the stake needs to have a 1" - 2" long head at the top with a 1" - 2" notch following to catch and secure the coir fiber mat.

Steel Reinforcement Bars:

Provide uncoated #10 steel reinforcement bars 24" nominal length. The bars shall have a 4" diameter bend at one end with a 4" straight section at the tip to catch and secure the coir fiber mat.

Staples:

Provide staples made of 0.125" diameter new steel wire formed into a *u* shape not less than 12" in length with a throat of 1" in width.

Revised 11/9/12

102-B

Bare Root Seedlings:

Type II Streambank Reforestation shall be bare root seedlings 12"-18" tall.

Construction Methods

Coir fiber matting shall be installed on the streambanks where live staking is to be planted as shown on the Streambank Reforestation Detail Sheets and in locations as directed. Work includes providing all materials, excavating and backfilling, and placing and securing coir fiber mat.

Provide a smooth soil surface free from stones, clods, or debris that will prevent the contact of the matting with the soil. Place the matting immediately upon final grading and permanent seeding. Take care to preserve the required line, grade, and cross section of the area covered.

Unroll the matting and apply without stretching such that it will lie smoothly but loosely on the soil surface. Bury the top slope end of each piece of matting in a narrow trench at least 6" deep and tamp firmly. Where one roll of matting ends and a second roll begins, overlap the end of the upper roll over the buried end of the second roll so there is a 6" overlap. Construct check trenches at least 12" deep every 50 ft. longitudinally along the edges of the matting, or as directed. Fold over and bury matting to the full depth of the trench, close and tamp firmly. Overlap matting at least 6" where 2 or more widths of matting are installed side by side.

Wooden stakes, reinforcement bars, or staples may be used as anchors in accordance with the Streambank Reforestation Detail Sheets and as directed. Place anchors across the matting at ends, junctions, and check trenches approximately 1 ft. apart. Place anchors down the center of each strip of matting 3 ft. apart. Place anchors along all lapped edges 1 ft. apart. Refer to the Streambank Reforestation Detail Sheets for anchoring pattern. The Engineer may require adjustments in the trenching or anchoring requirements to fit individual site conditions.

During preparation of the live stakes, the basal ends shall be cleanly cut at an angle to facilitate easy insertion into the soil, while the tops shall be cut square or blunt for tamping. All limbs shall be removed from the sides of the live cutting prior to installation.

Live stakes shall be installed within 48 hours of cutting. Outside storage locations should be continually shaded and protected from wind and direct sunlight. Live cut plant material shall remain moist at all times before planting.

Stakes shall be spaced approximately 4 ft. on center. Live stakes shall be installed according to the configuration presented on the Streambank Reforestation Detail Sheets.

Tamp live stakes perpendicularly into the finished bank slope with a dead blow hammer, with buds oriented in an upward direction. Stakes should be tamped until approximately $\frac{3}{4}$ of the stake length is within the ground. The area around each live stake shall be compacted by foot after the live stake has been installed.

Revised 11/9/12

102-C

1"- 2" shall be cut cleanly off of the top of each live stake with loppers at an angle of approximately 15 degrees following installation. Any stakes that are split or damaged during installation shall be removed and replaced.

The bare root seedlings shall be planted as soon as practical following permanent *Seeding and Mulching*. The seedlings shall be planted from top of bank out, along both sides of the stream, as designated on the plans.

Root dip: The roots of reforestation seedlings shall be coated with a slurry of water, and either a fine clay (kaolin) or a superabsorbent that is designated as a bare root dip. The type, mixture ratio, method of application, and the time of application shall be submitted to the Engineer for approval.

With the approval of the Engineer, seedlings may be coated before delivery to the job or at the time of planting, but at no time shall the roots of the seedlings be allowed to dry out. The roots shall be moistened immediately prior to planting.

Seasonal Limitations: Streambank reforestation shall be planted from November 15 through March 15.

Measurement and Payment

Streambank Reforestation will be measured and paid for as the actual number of acres of land measured along the surface of the ground, which has been acceptably planted in accordance with this section.

Payment will be made under:

Pay Item	Pay Unit
Streambank Reforestation	Acre