STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

REVISED ADDENDUM

DATE: Tuesday, March 20, 2012

PROJECT: 17BP.10.H.2 & 42564.1.3/ DO00145/ ANSON COUNTY BRIDGE #22&36 REPLACEMENT AND SUPERSTRUCTURE REPLACEMENT.

The following revisions are hereby made part of the contract:

- The proposal has been revised for the following items:

  - Bridge Approach fill shall be included in the Lump Sum bid price for Bridge Approach Slabs (See Attachment)
  - Line # 25 Barricades (Type III) QTY should be in Lin. Ft.

The attachments must be attached to the proposal in order for the bid to be considered.

Ec: Prospective Bidders
File

MAILING ADDRESS:
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STRUCTURE MANAGEMENT UNIT
1581 MAIL SERVICE CENTER
RALEIGH NC 27699-1581

TELEPHONE: 919-707-6400
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LOCATION:
CENTURY CENTER COMPLEX
BUILDING A
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610

BRIDGE APPROACH FILLS:

SPECIAL

Description

Bridge approach fills include bridge approach fills for sub regional tier bridges and reinforced bridge approach fills. Construct bridge approach fills in accordance with the contract and Standard Drawing No. 422.10 or 422.11 of the *2012 Roadway Standard Drawings*. Define "geosynthetics" as geotextiles or geomembranes.

Materials

Refer to Division 10 of the *2012 Standard Specifications*.

Item	Section
Anchor Pins	1056-2
Geotextiles	1056
Portland Cement Concrete	1000
Select Material	1016
Subsurface Drainage Materials	1044
Wire Staples	1060-8(D)

For bridge approach fills for sub regional tier bridges, provide Type 1 geotextile for filtration geotextiles. For reinforced bridge approach fills, provide Type 5 geotextile for geotextile reinforcement and Type 1 geotextile and No. 78M stone for drains. Use Class B concrete for concrete pads.

Use Class III or V select material for reinforced bridge approach fills and only Class V select material (standard size No. 78M stone) for bridge approach fills for sub regional tier bridges. Provide PVC pipes, fittings and outlet pipes for subsurface drainage materials. For drains and PVC pipes behind end bents, use pipes with perforations that meet AASHTO M 278.

Use PVC, HDPE or linear low density polyethylene (LLDPE) geomembranes for reinforced bridge approach fills. For PVC geomembranes, provide grade PVC30 geomembranes that meet ASTM D7176. For HDPE and LLDPE geomembranes, use geomembranes with a nominal thickness of at least 30 mils that meet Geosynthetic Research Institute Standard Specifications GM13 or GM17, respectively. Handle and store geomembranes in accordance with Article 1056-2 of the *2012 Standard Specifications*. Provide material certifications for geomembranes in accordance with Article 1056-3 of the *2012 Standard Specifications*.

Construction Methods

Excavate as necessary for bridge approach fills in accordance with the contract. Notify the Engineer when foundation excavation is complete. Do not place geomembranes or filtration geotextiles until excavation dimensions and foundation material are approved. Attach geomembranes and filtration geotextiles to end bent cap back and wing walls with adhesives, tapes or other approved methods. Glue or weld geomembrane seams to prevent leakage.

For reinforced bridge approach fills, place geotextile reinforcement within 3" of locations shown in Standard Drawing No. 422.10 of the *2012 Roadway Standard Drawings* and in slight tension

free of kinks, folds, wrinkles or creases. Install geotextile reinforcement with the orientation, dimensions and number of layers shown in Standard Drawing No. 422.10 of the *2012 Roadway Standard Drawings*. Place first layer of geotextile reinforcement directly on geomembranes with no void or material in between. Install geotextile reinforcement with the machine direction (MD) parallel to the roadway centerline. The MD is the direction of the length or long dimension of the geotextile roll. Do not splice or overlap geotextile reinforcement in the MD so seams are perpendicular to the roadway centerline. Wrap geotextile reinforcement at end bent cap back and wing walls as shown in Standard Drawing No. 422.10 of the *2012 Roadway Standard Drawings* and directed by the Engineer. Extend geotextile reinforcement at least 4 ft back behind end bent cap back and wing walls into select material.

Overlap adjacent geotextiles at least 18" with seams oriented parallel to the roadway centerline. Hold geotextiles in place with wire staples or anchor pins as needed. Contact the Engineer when existing or future obstructions such as foundations, pavements, pipes, inlets or utilities will interfere with geosynthetics.

For reinforced bridge approach fills, construct one foot square drains consisting of 4" diameter continuous perforated PVC pipes surrounded by No. 78M stone wrapped in Type 1 geotextiles. Install drains in accordance with Standard Drawing No. 422.10 of the *2012 Roadway Standard Drawings*. For bridge approach fills for sub regional tier bridges, install 4" diameter continuous perforated PVC drain pipes in accordance with Standard Drawing No. 422.11 of the *2012 Roadway Standard Drawings*.

Use solvent cement to connect PVC pipes so joints do not leak. Connect perforated pipes to outlet pipes just behind wing walls. Provide drain pipes and drains with positive drainage towards outlets. Place pipe sleeves in or under wing walls for outlet pipes so positive drainage is maintained. Use sleeves that can withstand wing wall loads.

Place select material in 8" to 10" thick lifts. Use only hand operated compaction equipment to compact select material for bridge approach fills. Compact Class III select material in accordance with Subarticle 235-3(C) of the *2012 Standard Specifications*. Compact No. 78M stone with a vibratory compactor to the satisfaction of the Engineer. Do not displace or damage geosynthetics, drain pipes or drains when placing and compacting select material. End dumping directly on geosynthetics is not permitted. Do not operate heavy equipment on geosynthetics, drain pipes or drains until they are covered with at least 8" of select material. Replace any damaged geosynthetics, drain pipes or drains to the satisfaction of the Engineer.

Cover open ends of outlet pipes with rodent screens as shown in Standard Drawing No. 815.03 of the *2012 Roadway Standard Drawings*. Connect ends of outlet pipes to concrete pads or existing drainage structures as directed by the Engineer. Construct concrete pads with an Ordinary surface finish that meets Subarticle 825-6(B) of the *2012 Standard Specifications*.

Measurement and Payment

Payment for Bridge Approach Fill shall be included in the Lump Sum Price bid for Bridge Approach Slabs.

FINE GRADING SUBGRADE, SHOULDERS AND DITCHES:
(7-21-09) SP5R01

Revise the *Standard Specifications* as follows:

Page 5-1, Article 500-1 Description, replace the first sentence with the following:

Perform the work covered by this section including but not limited to preparing, grading, shaping, manipulating moisture content, and compacting either an unstabilized or stabilized roadbed to a condition suitable for placement of base course, pavement, and shoulders.

ASPHALT PAVEMENTS - SUPERPAVE:
(7-18-06)(Rev 10-18-11) SP6 R01

Revise the *2006 Standard Specifications* as follows:

Page 6-2, Article 600-9 Measurement and Payment, delete the second paragraph.

Page 6-12, Subarticle 609-5(C)(2), Required Sampling and Testing Frequencies, first partial paragraph at the top of the page, delete last sentence and replace with the following:

If the Engineer allows the mix to remain in place, payment will be made in accordance with Article 105-3.

Page 6-12, Subarticle 609-5(C)(2), Quality Control Minimum Sampling and Testing Schedule, first paragraph, delete and replace with the following:

Sample and test the completed mixture from each mix design per plant per year at the following minimum frequency during mix production:

REVISED 3/20/12

LINE NO.	ITEM NO.	SEC. NO.	DESCRIPTION	QUANTITY	UNIT COST	AMOUNT
14.	3030000000-E	862	STEEL BEAM GUARDRAIL	902 LIN. FT.		
15.	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EACH		
16.	3270000000-N	SP	GUARDRAIL ANCHOR UNIT, TYPE 350	8 EACH		
17.	3317000000-N	862	GUARDRAIL ANCHOR UNIT, TYPE B-77	4 EACH		
18.	3635000000-E	876	PLAIN RIP RAP, CLASS II	632 TON		
19.	3649000000-E	876	PLAIN RIP RAP, CLASS B	2 TON		
20.	365600000-E	876	GEOTEXTILE FOR DRAINAGE	1,507 SY		
21.	440000000-E	1110	WORK ZONE SIGNS (STATIONARY)	598 SF		
22.	440500000-E	1110	PORTABLE WORK ZONE SIGNS	16 SF		
23.	441000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	189 SF		
24.	443500000-E	1135	CONES	30 EACH		
25.	444500000-E	1145	BARRICADES (TYPE III)	176 LIN. FT		
26.	46850000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4”, 90 MILS)	1,374 LIN. FT		
27.	46860000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4”, 120 MILS)	1,374 LIN. FT		
28.	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	12 EACH		
29.	6000000000-E	1605	TEMPORARY SILT FENCE	1150 LIN. FT		