



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

April 4, 2018

CONTRACT: DB00408
TIP NUMBER: B-4789
WBS ELEMENT: 38559.3.1
COUNTY: Pitt
ROUTE: SR 1424
DESCRIPTION: Replacement of Bridge 164 in Pitt County

ADDENDUM 1

TO: PROSPECTIVE BIDDERS

Please note the following revisions to the proposal.

- Revised the Contract Items to add line item 0081, Type II Modified Approach Fill, Station 13+97.50. Revised Itemized Proposal is Attached.
- Revise Proposal to include SP4 R02A Bridge Approach Fills. Pages A1-A3 are attached.
- A revised electronic file has been uploaded to bid express named DB00408.001

Please make sure to sign the addendum page in the proposal to acknowledge this addendum.

Sincerely,

DocuSigned by:

Mary Voelker Moore

714C11DCCCEBC4C6...

Mary Voelker Moore, PE
Division Contract Engineer

cc: Ms. Heather Lane, PE
Ms. Sarah F. Lentine, PE
Mr. William Kincannon, PE
Ms. Claudia Wainwright

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Location:
1037 W.H. SMITH BLVD.
GREENVILLE, NC 27835

County : Pitt

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0004	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR		
0005	0057000000-E	226	UNDERCUT EXCAVATION	300 CY		
0006	0195000000-E	265	SELECT GRANULAR MATERIAL	300 CY		
0007	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	930 SY		
0008	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	40 TON		
0009	0335200000-E	305	15" DRAINAGE PIPE	23 LF		
0010	0335400000-E	305	24" DRAINAGE PIPE	99 LF		
0011	0335600000-E	305	36" DRAINAGE PIPE	67 LF		
0012	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	24 LF		
0013	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	24 LF		
0014	0995000000-E	340	PIPE REMOVAL	83 LF		
0015	1099500000-E	505	SHALLOW UNDERCUT	100 CY		
0016	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	190 TON		
0017	1121000000-E	520	AGGREGATE BASE COURSE	80 TON		
0018	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	30 TON		
0019	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	100 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0020	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	10 TON		
0021	2022000000-E	815	SUBDRAIN EXCAVATION	45 CY		
0022	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	35 CY		
0023	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0024	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0025	2077000000-E	815	6" OUTLET PIPE	6 LF		
0026	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	5 EA		
0027	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	4 EA		
0028	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	1 EA		
0029	2556000000-E	846	SHOULDER BERM GUTTER	70 LF		
0030	3030000000-E	862	STEEL BEAM GUARDRAIL	87.5 LF		
0031	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		
0032	3195000000-N	862	GUARDRAIL END UNITS, TYPE AT-1	2 EA		
0033	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0034	3288000000-N	SP	GUARDRAIL END UNITS, TYPE TL-2	2 EA		
0035	3578000000-N	SP	GENERIC FENCING ITEM RELOCATE EXISTING GATE	2 EA		
0036	3628000000-E	876	RIP RAP, CLASS I	26 TON		
0037	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	245 SY		
0038	6000000000-E	1605	TEMPORARY SILT FENCE	700 LF		
0039	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	90 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0040	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	95 TON		
0041	6012000000-E	1610	SEDIMENT CONTROL STONE	65 TON		
0042	6015000000-E	1615	TEMPORARY MULCHING	1.5 ACR		
0043	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	200 LB		
0044	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	1 TON		
0045	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		
0046	6029000000-E	SP	SAFETY FENCE	200 LF		
0047	6030000000-E	1630	SILT EXCAVATION	90 CY		
0048	6036000000-E	1631	MATTING FOR EROSION CONTROL	1,750 SY		
0049	6037000000-E	SP	COIR FIBER MAT	100 SY		
0050	6042000000-E	1632	1/4" HARDWARE CLOTH	100 LF		
0051	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	260 SY		
0052	6071012000-E	SP	COIR FIBER WATTLE	80 LF		
0053	6071020000-E	SP	POLYACRYLAMIDE (PAM)	25 LB		
0054	6084000000-E	1660	SEEDING & MULCHING	3 ACR		
0055	6087000000-E	1660	MOWING	3 ACR		
0056	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB		
0057	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0058	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50 LB		
0059	6108000000-E	1665	FERTILIZER TOPDRESSING	1.25 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0060	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0061	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	13 EA		
0062	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2 EA		
0063	6123000000-E	1670	REFORESTATION	0.2 ACR		
0064	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** 13+97.50	Lump Sum	L.S.	
0065	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0066	8112730000-N	450	PDA TESTING	1 EA		
0067	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** 13+97.50	Lump Sum	L.S.	
0068	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	37 CY		
0069	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** 13+97.50	Lump Sum	L.S.	
0070	8217000000-E	425	REINFORCING STEEL (BRIDGE)	5,946 LB		
0071	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES 12"	10 EA		
0072	8328400000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** GALVANIZED STEEL PILES 14"	10 EA		
0073	8364000000-E	450	HP12X53 STEEL PILES	585 LF		
0074	8384200000-E	450	HP14X73 GALVANIZED STEEL PILES	427 LF		
0075	8393000000-N	450	PILE REDRIVES	10 EA		
0076	8505000000-E	460	VERTICAL CONCRETE BARRIER RAIL	171 LF		
0077	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	195 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0078	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	215 SY		
0079	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0080	8762000000-E	430	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS	850 LF		
0081	0030000000-N	SP	TYPE II MODIFIED APPROACH FILL, STATION ***** 13+97.50	Lump Sum	L.S.	

0941/Apr04/Q15697.7/D357678262000/E81

Total Amount Of Bid For Entire Project :

BRIDGE APPROACH FILLS:

(10-19-10) (Rev. 1-16-18)

422

SP4 R02A

Description

Bridge approach fills consist of backfilling behind bridge end bents with select material or aggregate to support all or portions of bridge approach slabs. Install drains to drain water from bridge approach fills and geotextiles to separate approach fills from embankment fills, ABC and natural ground as required. For bridge approach fills behind end bents with mechanically stabilized earth (MSE) abutment walls, reinforce bridge approach fills with MSE wall reinforcement connected to end bent caps. Construct bridge approach fills in accordance with the contract, accepted submittals and 2018 Roadway Standard Drawing Nos. 422.01 or 422.02 or Roadway Detail Drawing No. 422D10.

Define bridge approach fill types as follows:

Approach Fills – Bridge approach fills in accordance with 2018 Roadway Standard Drawing Nos. 422.01 or 422.02 or Roadway Detail Drawing No. 422D10;

Standard Approach Fill – Type I Standard Bridge Approach Fill in accordance with 2018 Roadway Standard Drawing No. 422.01;

Modified Approach Fill – Type II Modified Bridge Approach Fill in accordance with 2018 Roadway Standard Drawing No. 422.02 and

Reinforced Approach Fill – Type III Reinforced Bridge Approach Fill in accordance with Roadway Detail Drawing No. 422D10.

Materials

Refer to Division 10 of the *2018 Standard Specifications*.

Item	Section
Geotextiles, Type 1	1056
Portland Cement Concrete	1000
Select Materials	1016
Subsurface Drainage Materials	1044

Provide Type 1 geotextile for separation geotextiles and Class B concrete for outlet pads. Use Class V or Class VI select material for standard and modified approach fills. For an approach fill behind a bridge end bent with an MSE abutment wall, backfill the reinforced approach fill with the same aggregate type approved for the reinforced zone in the accepted MSE wall submittal. For MSE wall aggregate, reinforcement and connector materials, see the *Mechanically Stabilized Earth Retaining Walls* provision. Provide PVC pipes, fittings and outlet pipes for subsurface drainage materials. For PVC drain pipes, use pipes with perforations that meet AASHTO M 278.

Construction Methods

Excavate as necessary for approach fills in accordance with the contract. Notify the Engineer when foundation excavation is complete. Do not place separation geotextiles or aggregate until approach fill dimensions and foundation material are approved.

For reinforced approach fills, cast MSE wall reinforcement or connectors into end bent cap backwalls within 3" of locations shown in the accepted MSE wall submittals. Install MSE wall reinforcement with the orientation, dimensions and number of layers shown in the accepted MSE wall submittals. If a reinforced approach fill is designed with geogrid reinforcement embedded in an end bent cap, cut geogrids to the required lengths and after securing ends of geogrids in place, reroll and rewrap portions of geogrids not embedded in the cap to protect geogrids from damage. Before placing aggregate, pull geosynthetic reinforcement taut so that it is in tension and free of kinks, folds, wrinkles or creases.

Attach separation geotextiles to end bent cap backwalls and wing walls with adhesives, tapes or other approved methods. Overlap adjacent separation 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 separation geotextiles or MSE wall reinforcement.

Install continuous perforated PVC drain pipes with perforations pointing down in accordance with 2018 Roadway Standard Drawing Nos. 422.01 or 422.02. Connect drain pipes to outlet pipes just beyond wing walls. Connect PVC pipes, fittings and outlet pipes with solvent cement in accordance with Article 815-3 of the *2018 Standard Specifications* and place outlet pads in accordance with 2018 Roadway Standard Drawing No. 815.03.

Install drain pipes so water drains towards outlets. If the groundwater elevation is above drain pipe elevations, raise drains up to maintain positive drainage towards outlets. Place pipe sleeves in or under wing walls so water drains towards outlets. Use sleeves that can withstand wing wall loads.

Place select material or aggregate in 8" to 10" thick lifts. Compact fine aggregate for reinforced approach fills in accordance with Subarticle 235-3(C) of the *2018 Standard Specifications* except compact fine aggregate to a density of at least 98%. Compact select material for standard or modified approach fills and coarse aggregate for reinforced approach fills with a vibratory compactor to the satisfaction of the Engineer. Do not displace or damage geosynthetics, MSE wall reinforcement or drains when placing and compacting select material or aggregate. End dumping directly on geosynthetics is not permitted. Do not operate heavy equipment on geosynthetics or drain pipes until they are covered with at least 8" of select material or aggregate. Replace any damaged geosynthetics or drains to the satisfaction of the Engineer. When approach fills extend beyond bridge approach slabs, wrap separation geotextiles over select material or aggregate as shown in 2018 Roadway Standard Drawing No. 422.01 or 2018 Roadway Detail Drawing No. 422D10.

Measurement and Payment

Type I Standard Approach Fill, Station _____, Type II Modified Approach Fill, Station _____ and Type III Reinforced Approach Fill, Station _____ will be paid at the contract lump sum price. The lump sum price for each approach fill will be full compensation for providing labor, tools, equipment and approach fill materials, excavating, backfilling, hauling and removing excavated materials, installing geotextiles and drains, compacting backfill and supplying select material, aggregate, separation geotextiles, drain pipes, pipe sleeves, outlet pipes and pads and any incidentals necessary to construct approach fills behind bridge end bents.

The contract lump sum price for *Type III Reinforced Approach Fill, Station _____* will also be full compensation for supplying and connecting MSE wall reinforcement to end bent caps but not designing MSE wall reinforcement and connectors. The cost of designing reinforcement and connectors for reinforced approach fills behind bridge end bents with MSE abutment walls will be incidental to the contract unit price for *MSE Retaining Wall No. ____*.

Payment will be made under:

Pay Item

Type I Standard Approach Fill, Station _____
 Type II Modified Approach Fill, Station _____
 Type III Reinforced Approach Fill, Station _____

Pay Unit

Lump Sum
 Lump Sum
 Lump Sum