



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

February 14, 2019

To: Prospective Bidders

From: Jonathan W. Mitchell

Division Proposals Engineer

DocuSigned by:
Jonathan W Mitchell
02B404268BC84C2...

Contract ID#: DC00238

WBS Element: 47785, 2018CPT.03.05.20711, 17BP.3.C.2

Subject: Addendum #1: DRAINAGE, WIDENING, AND RESURFACING

The Subject contract proposal contains the following addendum:

- 1- Replace the bid form with the revised attached bid form.
- 2- Add the attached Additional Notes to Contractor SP dated 02/14/2019.
- 3- Add the attached NCDOT Supplied Pipe and Headwall SP dated 02/14/2019.
- 4- Add the attached Temporary Portable Traffic Signal System SP.

*****An Addendum has been added to the Bid Express.**

JWM/jwm

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DIVISION OF HIGHWAYS
5501 BARBADOS BOULEVARD
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Location:
5501 BARBADOS BOULEVARD
CASTLE HAYNE, NC 28429-5647

County : Pender

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0003	0106000000-E	230	BORROW EXCAVATION	1,475 CY		
0004	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,954 TON		
0005	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	660 SY		
0006	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK 15" CAA PIPE CULVERTS, 0.079 THICK	784 LF		
0007	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK 18" CAA PIPE CULVERTS, 0.079 THICK	1,112 LF		
0008	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK 24" CAA PIPE CULVERTS, 0.079 THICK	260 LF		
0009	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK 30" CAA PIPE CULVERTS, 0.079 THICK	52 LF		
0010	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK 36" CAA PIPE, CULVERTS, 0.079 THICK	52 LF		
0011	0995000000-E	340	PIPE REMOVAL	383 LF		
0012	1220000000-E	545	INCIDENTAL STONE BASE	185 TON		
0013	1245000000-E	SP	SHOULDER RECONSTRUCTION	1 SMI		
0014	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	2,728 TON		
0015	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	4,006 TON		
0016	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	379 TON		

County : Pender

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0017	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (FULL DEPTH)	180 TON		
0018	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL)	225 TON		
0019	2209000000-E	838	ENDWALLS 36" ENDWALL STD. 838.01	8 CY		
0020	2253000000-E	840	PIPE COLLARS	4 CY		
0021	2286000000-N	840	MASONRY DRAINAGE STRUCTURES 840.19 AND 840.28	18 EA		
0022	2286000000-N	840	MASONRY DRAINAGE STRUCTURES 840d17	3 EA		
0023	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24 G.D.I (N.S. SAG)	7 EA		
0024	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29 G.D.I (N.S. FLAT)	14 EA		
0025	2473000000-N	SP	GENERIC DRAINAGE ITEM PIPE AND HEADWALL (ASSEMBLY AND INSTALL) 1 @ 66" 54 LF	1 EA		
0026	2473000000-N	SP	GENERIC DRAINAGE ITEM PIPE AND HEADWALL (ASSEMBLY AND INSTALL) 1 @ 72" 63 LF	1 EA		
0027	2473000000-N	SP	GENERIC DRAINAGE ITEM PIPE AND HEADWALL (ASSEMBLY AND INSTALL) 2 @ 72" 50 LF	1 EA		
0028	2612000000-E	848	6" CONCRETE DRIVEWAY	15 SY		
0029	3691000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING	3 EA		
0030	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	535 SF		
0031	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	

County : Pender

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0032	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	63,150 LF		
0034	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	52 LF		
0037	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	6 EA		
0038	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	2,001 LF		
0039	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	230 EA		
0040	6000000000-E	1605	TEMPORARY SILT FENCE	3,950 LF		
0041	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	160 TON		
0042	6012000000-E	1610	SEDIMENT CONTROL STONE	100 TON		
0043	6036000000-E	1631	MATTING FOR EROSION CONTROL	150 SY		
0044	6037000000-E	SP	COIR FIBER MAT	802 SY		
0045	6042000000-E	1632	1/4" HARDWARE CLOTH	414 LF		
0046	6071010000-E	SP	WATTLE	250 LF		
0047	6071014000-E	SP	COIR FIBER WATTLE BARRIER	150 LF		
0048	6071020000-E	SP	POLYACRYLAMIDE (PAM)	6 LB		
0049	6084000000-E	1660	SEEDING & MULCHING	11.38 ACR		
0050	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	51 LB		
0051	6108000000-E	1665	FERTILIZER TOPDRESSING	0.54 TON		
0052	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	18 EA		
0053	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	203.75 TON		

County : Pender

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0054	1121000000-E	520	AGGREGATE BASE COURSE	1,000 TON		
0055	4424500000-N	SP	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	1 EA		
0056	4507000000-E	1170	WATER FILLED BARRIER	900 LF		
0057	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVMENT MARKING LINES (24", 90 MILS)	96 LF		
0058	4892000000-N	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVMENT MARKING CHARACTER (90 MILS) SCHOOL	12 EA		
0922/Feb13/Q88763.67/D182718644000/E55			Total Amount Of Bid For Entire Project :			

ADDITIONAL NOTES TO CONTRACTOR:

- Any intermediate headwall installed will remain in place.
- A 10' travel width must be maintained at all times. Contractor shall ensure proper channelization and traffic control devices shall not encroach the 10' travel clearance.
- Additional asphalt may need to be placed at the bridge size pipes in order to maintain the 10' travel width.
- Temporary sheet piles shall be incidental to the cost of the Pipe and Headwall line items.
- The contractor must notify the Division Bridge Maintenance Engineer, Adam Britt at 910-682-5180, atbritt@ncdot.gov, a minimum of 2 weeks before NCDOT is to deliver the bridge size pipes. Offloading of the bridge size pipes will be handled by the contractor.

NCDOT SUPPLIED PIPE AND HEADWALL (ASSEMBLE AND INSTALL)

The manufacturer's representative, with at least two (2) years of experience in the installation of this type of structure, will be required to be onsite during assembly, placement and backfilling of the structure. The Contractor's responsibility shall be to excavate the streambed for placement of the toe wall of both headwalls.

The pipe is required to be buried one foot below the streambed, unless specified otherwise. The contractor will be responsible for taking streambed elevations at ten-foot intervals, 60 ft (minimum) upstream and downstream of the proposed structures, to determine the appropriate pipe invert elevations. The proposed pipe inverts must be approved by the Department prior to the pipe installation. The contractor will then be responsible for backfilling in accordance with the NCDOT Standard Specifications, and as directed by the Engineer. Backfill material shall be #57 stone from one (1) foot below the pipe invert to two foot above the top and beyond the sides of the pipe. All #57 stone backfill materials shall be encapsulated with engineering fabric (Foundation Conditioning Geotextile). Provide engineering fabric meeting the requirements of Article 1056-2 of the Standard Specifications for any type of engineering fabric. In addition to the engineering fabric the Contractor will be required to place one layer of geogrid (TX160 or equivalent) approximately 6" above and below the structure from headwall to headwall. All engineering fabric and geogrid will be considered incidental to "Pipe and Headwall" line items.

The Contractor shall thoroughly and carefully backfill the pipe in accordance with the pipe assembly plans. Backfilled areas shall be graded and maintained in such a condition that erosion or saturation will not erode or damage the pipe foundation or backfill. Heavy equipment shall not be operated over the pipe until it has been properly backfilled and minimum cover as shown on the plans or as approved by the Engineer has been placed over the pipe.

All material shall be inspected and approved by the Engineer after delivery to the project and prior to installation.

Basis of payment for "Pipe and Headwall" will be the contract unit price per EACH.

TC-1

General

WORK ZONE TRAFFIC CONTROL Project Special Provisions Table of Contents

Special Provision	Page
Temporary Portable Traffic Signal System	TC-2

TC-2

General

TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM:

(07-14-15)

Description

Furnish, install, place in operation, repair, maintain, relocate, and remove temporary portable traffic signal system for traffic maintenance during construction along SR 1569 Hoover Rd. The temporary portable traffic signals will require a system that is coordinated to maintain safe and efficient traffic operations along SR 1569 Hoover Rd during construction operations. The Temporary Portable Traffic Signal System shall be designed such that all devices operate and communicate as a system. The system will contain a trailer mounted Portable Traffic Signals units along SR 1569 Hoover Rd.

Materials

Provide:

Portable Traffic Signals (PTS). Each shall be self-contained trailer mounted units with two 12” signal heads per trailer. One signal head shall be mounted on an overhead mast arm capable of extending over the travel lane. The other signal head shall be mounted on a vertical upright. Units must be on the NCDOT Approved Products List.

Communication Requirements

All PTS within the signal set up systems shall maintain communication at all times. Acceptable communication shall be either hardwire cable or wireless radio link communication. If the hardwire cable communication is utilized the communication cable shall be deployed in a manner that will not intrude in the direct work area of the project or obstruct vehicular and pedestrian traffic. If the wireless radio link communication option is utilized clear line of sight between signals within the signal setup shall be maintained. Radio communication shall utilize the 900MHz frequency band and have frequency hopping capability. The radio link communication system shall have a minimum range of (1 mile).

Fault Mode Requirements

The PTS system shall revert to a solid red mode upon system default. The default setting shall be solid red unless otherwise specified by the project engineer. The temporary portable traffic signal system repairs shall be the responsibility of the contractor and shall be rendered in a manner that will return to system to full operation condition in the most expeditious manner. The PTS shall be equipped with a remote monitoring system. Where cell communication availability exists, the remote monitoring system shall have capabilities as described in the Remote Monitoring System section of this specification.

TC-3

General

Remote Monitoring System

The remote monitoring system (RMS) shall be capable of reporting signal location, battery voltage / battery history and system default. The RMS shall include a password protected web site viewable from any computer with internet capability. In the event of a system default, the RMS shall provide specific information concerning the cause of the system default (i.e....red lamp on signal number 1). The RMS shall be equipped with a mechanism capable of immediately contacting a minimum of three previously designated individuals via text messaging and/or email upon a default.

The running program operating the PTS system shall be available and viewable through the RMS website at all times. The RMS shall maintain a history of the operating system in each signal including operating hours and events and the location of the PTS trailer. The remote monitoring system is not required as part of this bid proposal.

Implementation

Deployment and installation of the PTS System shall only be facilitated by personnel that have been factory trained and fully authorized by the manufacturers.

Measurement and Payment

The Temporary Portable Traffic Signal System will be measured as the trailer mounted units (PTS) furnished, installed, field verified, accepted, operated and removed.

No measurement will be made for operation, relocation, maintenance, removal, or use of flaggers during repair periods as these will be considered incidental to furnishing, installing, and operating the temporary portable traffic signal system.

No measurement will be made for signal controller, communication, vehicle detection system, and traffic signal software as these will be considered incidental to furnishing, installing, and operating the temporary portable traffic signal system.

No payment will be made until signal timing and operation has been field verified and accepted by the Engineer.

Pay Item

Temporary Portable Traffic Signal System

Pay Unit

Each