



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 21, 2006

Addendum No. 2

RE: Contract ID: C201304
TIP Number: R-2616
Federal Aid No.: STP-601(19)
Union County
Project Description: US 601 from north of the South Carolina State Line to north of Marion Lee Road (SR 2105)

January 25, 2007 Letting

To Whom It May Concern:

Reference is made to the Request for Proposal recently furnished to you on the above project. The following revisions have been made to the Request for Proposal:

The COVER SHEET has been revised.

The TABLE OF CONTENTS has been revised.

Page 1 of the PROJECT SPECIAL PROVISIONS has been revised.

Page 56 of the ROADWAY SCOPE OF WORK has been revised.

Pages 90 and 91 of the EROSION CONTROL SCOPE OF WORK have been revised.

The ITEMIZED PROPOSAL SHEET has been revised.

The attached original (labeled) Final RFP (December 21, 2006) that contains both addenda is being supplied to you. This original labeled RFP must be used to submit the Price Proposal.

One bound copy and one unbound copy of the Final RFP (December 21, 2006) that contains both addenda are available for you on the Design-Build pick-up table located in Century Center Building "B". It is the Design-Build Team's responsibility to insure that the unbound copy is complete and includes all the information contained in the bound RFP. The Department assumes no responsibility and makes no claims for its use. Additional bound copies may be obtained, at a cost of \$25.00 per copy, by contacting Ms. Betty Rawls at 919-250-4128.

Sincerely,

R.A. Garris, P.E.
Contract Officer

RAG/adg

cc: Mr. Steve Varnedoe, PE

Ms. Meredith McDiarmid, PE (w/)

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
ALTERNATIVE DELIVERY UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-250-4128
FAX: 919-250-4119

WEBSITE: WWW.DOH.DOT.STATE.NC.US

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

Mr. Ellis Powell, PE	Mr. Jim Dunlop, PE (w/)
Ms. Deborah Barbour, PE (w/)	Mr. Ayman Alqudwah, PE (w/)
Mr. Victor Barbour, PE (w/)	Ms. Jennifer Brandenburg, PE (w/)
Mr. Art McMillan, PE	Mr. Tony Wyatt, PE (w/)
Mr. Rodger Rochelle, PE (w/)	Mr. John Emerson, PE (w/)
Mr. Clarence Coleman, PE - FHWA (w/3)	Mr. Roger Worthington, PE (w/)
Mr. Barry Moose, PE (w/)	Mr. Brian Mayhew, PE (w/)
Mr. Jay Bennett, PE	Mr. Scott Blevins, PE (w/)
Ms. Judith Corley-Lay, PhD, PE	Ms. Marsha Sample (w/)
Mr. John Williamson	Ms. Elizabeth Lusk - Environmental Permits (w/)
Mr. Calvin Leggett, PE	Mr. John Pilipchuk, PE – Geotechnical (w/)
Mr. Njoroge Wainaina, PE	Mr. Neal Strickland - Right-of-Way (w/)
Mr. Dave Henderson, PE	Mr. Barney Blackburn, PE - Erosion & Sed. Cont. (w/3)
Mr. Ron King, PE	Mr. Lonnie Brooks, PE - Structures (w/)
Mr. Greg Perfetti, PE	Mr. Cyrus Parker, LG - Geo-Environmental (w/)
Mr. Don Lee	Ms. Teresa Bruton, PE (w/6)
Mr. Richard Mullinax, PE	Mr. Stephen Worthy - Utility Coordination (w/)
Mr. Greg Thorpe, PhD	Mr. Clark Morrison, PhD, PE - Pavement Design (w/)
Mr. Stuart Bourne, PE	Ms. Virginia Mabry (w/)
Mr. Robert Memory, (w/)	Ms. Michelle Long, PE - Public Information (w/)
Mr. Philip Harris, PE (w/)	Mr. Wayne Johnson, PE (w/)
Mr. Carl Goode	Ms. Alena Cook, PE (w/)
Mr. Ron Hancock, PE (w/)	Mr. Rob Hanson, PE
Mr. David Harris, PE	Ms. Tawana Brooks, PE (w/5)
Mr. Ray McIntyre, PE	Mr. Rick Mason, PE (w/)
Mr. Brian Yamamoto, PE (w/)	Mr. David Naylor, PE (w/)
Mr. Ron Davenport, PE (w/)	Technical Review Committee Members (w/)
Mr. Van Argabright, PE	File (w/)
Ms. Betty Rawls	

-- STATE OF NORTH CAROLINA--
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.



FINAL RFP

Includes

Addendum No. 1 December 13, 2006

Addendum No. 2 December 21, 2006

DESIGN-BUILD PROJECT

TIP R-2616

December 21, 2006



VOID FOR BIDDING

DATE AND TIME OF TECHNICAL AND PRICE PROPOSAL SUBMISSION: **January 5, 2007 AT 4:00 PM**

DATE AND TIME OF PRICE PROPOSAL OPENING: **January 25, 2007 AT 10:00 AM**

CONTRACT ID: C 201304

WBS ELEMENT NO. 34485.3.7

F.A. Project. No. STP-601(19)

COUNTY: UNION

ROUTE NO. US 601

MILES: 10.9

LOCATION: US 601 FROM NORTH OF THE SOUTH CAROLINA STATE LINE
TO NORTH OF MARION LEE ROAD (SR 2105)

TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE RFP

NOTICE:

ALL PROPOSERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE PROPOSER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. PROPOSERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOT WITHSTANDING THESE LIMITATIONS ON BIDDING, THE PROPOSER WHO IS AWARDED ANY PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING, REGARDLESS OF FUNDING SOURCES.

5% BID BOND OR BID DEPOSIT REQUIRED

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C 201304 (R-2616)

Union County

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Listing of DBE Subcontractors (YELLOW SHEETS)
Execution of Bid, Noncollusion Affidavit & Debarment Certification Signature Sheet (YELLOW SHEETS)

***** PROJECT SPECIAL PROVISIONS *******CONTRACT TIME AND LIQUIDATED DAMAGES**

The date of availability for this contract is **February 26, 2007** except that work in jurisdictional waters and wetlands shall not begin until a meeting between the DOT, Regulatory Agencies, and the Design-Build Team is held, and a permit modification, if necessary, is acquired as stipulated in the Environmental Permits Scope of Work contained elsewhere in this Request for Proposals (RFP). The Design-Build Team shall consider this factor in determining the proposed completion date for this project.

The completion date for this contract is defined as the date proposed in the Technical Proposal by the proposer who is awarded the project. The completion date thus proposed shall not be later than **July 1, 2010**.

The actual completion date proposed by the Design-Build Team is (to be filled in by NCDOT after award).

When observation periods are required by the special provisions, they are not a part of the work to be completed by the completion date and / or intermediate contract times. Should an observation period extend beyond the final completion date, the acceptable completion of the observation period shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Thousand Five Hundred Dollars (\$2,500.00)** per calendar day. As an exception to this amount, where the contract has been determined to be substantially complete as defined in Section 105-18 of the Standard Special Provisions - Division 1 contained elsewhere in this RFP, the liquidated damages will be reduced to **One Thousand Dollars (\$1,000.00)** per calendar day.

Where the Design-Build Team who is awarded the contract has proposed a completion date for the contract as required above, but also has proposed an earlier date for substantial completion, then both of these proposed dates will become contract requirements.

Liquidated damages of **Two Thousand Five Hundred Dollars (\$2,500.00)** per calendar day will be applicable to the early date for substantial completion proposed by the bidder. Liquidated damages of **One Thousand Dollars (\$1,000.00)** per calendar day will be applicable to the final completion date proposed by the bidder where the Design-Build Team has proposed an earlier date for substantial completion.

DB1 G04

OTHER LIQUIDATED DAMAGES AND INCENTIVES**Traffic Control Liquidated Damages:**

Intermediate Contract Time #1 for Lane Narrowing, Closure, Holiday and Special Event Restrictions:

Liquidated Damages for Intermediate Contract Time #1, for lane narrowing, lane closure, holiday and special event time restrictions for US 601, are \$1,000.00 per hour.

- All guardrail placement shall be in accordance with the *NCDOT Standard Drawings* and / or approved details in lieu of standards. The guardrail design shall be submitted for review with the Preliminary Plans submittal.

**** NOTE ** Deleted Median Barrier Bullet**

- The Design-Build Team shall design and construct concrete median barrier in front of all retaining walls and elements acting as a retaining wall that are subject to vehicular impact.

NCDOT Information Supplied

- The NCDOT will provide copies of the EA (Environmental Assessment), FONSI (Finding of No Significant Impact), Reevaluation of EA and FONSI, and the latest list of environmental commitments, municipal agreements and all pertinent approvals and correspondence. The Design-Build Team shall adhere to all commitments stated in the environmental documents.
- The NCDOT will provide electronic surveys to the Design-Build Team. Subsequent to acquiring these surveys, US 601 has been resurfaced with an overlay varying in depth from 1.5” to 3.25” and approximately two-foot wide shoulders constructed. The electronic surveys provided by the Department do not reflect the additional pavement overlay or shoulder construction. Any supplemental surveys, including but not limited to additional topography, existing and proposed roadway, structure sites, underground and overhead utilities, existing and proposed drainage, wetland delineation, right of way, parcel names, and deed research and descriptions shall be the responsibility of the Design-Build Team to acquire and process. Known existing utilities have been located and will be included with the survey data. All supplemental SUE work shall be the responsibility of the Design-Build Team.
- The NCDOT will provide Right of Way Plans for R-2616. The Design-Build Team is cautioned that the preliminary design shown on the Right of Way Plans provided by the Department is provided solely to assist the Design-Build Team in the development of the project design. The Design-Build Team shall be fully and totally responsible for the accuracy and completeness of the project design, including, but not limited to, the use of

EROSION AND SEDIMENTATION CONTROL SCOPE OF WORK (12/15/06)

The NCDOT REU shall review and accept all Erosion and Sedimentation Control Plans. Release for Construction (RFC) Erosion Control Plans shall be submitted to all NCDOT Personnel listed in the Design-Build Submittal Guidelines before **any** land disturbing activities can commence. If the Design-Build Team chooses to perform the work in discrete sections, then a complete set of Final Grade RFC Erosion Control Plans shall be submitted, accepted, and distributed as noted above prior to land disturbing activities commencing in that section. No land disturbing activities shall occur in any location that does not have accepted Final Grade RFC Erosion Control Plans.

Erosion and Sedimentation Control Plans shall at a minimum address the following:

I. Complete Set of Plans

A. Clearing and Grubbing Phase

1. Use correct NCDOT symbology
2. Protect existing drainage structure inlets with Rock Inlet Sediment Trap Type 'A' (RIST-A), Rock Inlet Sediment Trap Type 'C' (RIST-C), Rock Pipe Inlet Sediment Trap Type 'A' (PIST-A), etc.
3. Utilize adequate perimeter controls (temporary diversions, silt fence, etc.)
4. Utilize Skimmer Basins and rock measures with sediment control stone at drainage outlets (Temporary Rock Sediment Dam Type 'B' (TRSD-B), Temporary Rock Silt Check Type 'A' (TRSC-A), etc.)
5. Take into account existing topography and show contour lines
6. Utilize Temporary Rock Silt Checks Type 'B' (TRSC-B) to reduce velocity in existing ditches with spacing of 300 feet divided by percentage of ditch grade
7. Protect existing streams
8. Provide adequate silt storage for 3600 cubic feet per disturbed acre and sediment basins shall be sized with surface area equal to 0.01 times the peak inflow rate, Q25, using 25-year peak rainfall data (*NCDENR- Erosion and Sediment Control Planning and Design Manual*). A Sediment Basin Designer Spreadsheet will be provided by the NCDOT Roadside Environmental Unit (REU) upon request.
9. Design Riser Basins to the following standards:
 - a. Surface Area shall be determined by Equation $A(\text{sq. ft.}) = Q25(\text{cfs}) * 435.6$
 - b. Riser Pipe shall have a cross-sectional area 1.5 times that of the barrel pipe
 - c. Perforations in the riser pipe shall be reduced to increase dewatering time to twenty-four (24) hours
 - d. See *NCDENR- Erosion and Sediment Control Planning and Design Manual* for additional design criteria
10. Skimmer Basins shall provide adequate silt storage for 1800 cubic feet per disturbed acre with surface area equal to .0075 times the peak inflow rate, Q25, using the 25-year peak rainfall data (*NCDENR- Erosion and Sediment Control Planning and Design Manual*). A Sediment Basin Designer Spreadsheet will be provided by the NCDOT Roadside Environmental Unit (REU) upon request.
11. The minimum and maximum length to width ratio of all Sediment Basins shall be 2:1 and 6:1, respectively.
12. Coir Fiber Baffles shall be installed in all silt basins at drainage outlets. For silt basins with a 20-foot or longer length, three Coir Fiber Baffles shall be installed with a spacing of 1/4 the basin length. For silt basins with a length less than 20 feet, a minimum of two Coir Fiber Baffles shall be installed, with a spacing of 1/3 the basin length. The Design-Build Team will not be required to show the individual baffles on the Erosion Control Plans; but will be required to incorporate the Coir Fiber Baffle Detail on the Erosion Control Plans.

B. Final Grade Phase

1. Use correct NCDOT symbology
2. Protect existing and proposed drainage structure inlets with RIST-A, RIST-C, PIST-A, etc.
3. Utilize TRSC-B's to reduce velocity in existing and proposed ditches with spacing of 300 feet divided by percentage of ditch grade
4. Utilize temporary slope drains and earth berms at top of fill slopes 8 feet or higher and a fill slope grade of 3:1 or steeper, or where there are superelevations above 0.04 and fills are greater than 5 feet. Maximum slope drain spacing shall be 200 feet
5. Utilize rock energy dissipater and / or silt basin at outlet of slope drain
6. Devices at all drainage turnouts shall utilize skimmers or sediment control stone (TRSD-B, TRSC-A, etc.)
7. Provide adequate silt storage for 3600 cubic feet per disturbed acre and sediment basins shall be sized with surface area equal to 0.01 times the peak inflow rate, Q25, using 25-year peak rainfall data (*NCDENR- Erosion and Sediment Control Planning and Design Manual*). A Sediment Basin Designer Spreadsheet will be provided by NCDOT REU upon request.
8. Provide matting for erosion control in all ditch lines where Shear Stress is greater than 0.15 psf, but less than or equal to 1.55 psf. For ditch lines with a Shear Stress above 1.55 psf, Permanent Soil Reinforcement Mat or Rip Rap shall be utilized
9. Design Riser Basins to the following standards:
 - a. Surface Area shall be determined by Equation $A(\text{sq. ft.}) = Q25(\text{cfs}) * 435.6$
 - b. Riser Pipe shall have a cross-sectional area 1.5 times that of the barrel pipe
 - c. Perforations in the riser pipe shall be reduced to increase dewatering time to twenty-four (24) hours
 - d. See *NCDENR- Erosion and Sediment Control Planning and Design Manual* for additional design criteria
10. **** NOTE ** Deleted Bullet No. 10**
11. Skimmer Basins shall provide adequate silt storage for 1800 cubic feet per disturbed acre with surface area equal to .0075 times the peak inflow rate, Q25, using the 25-year peak rainfall data (*NCDENR- Erosion and Sediment Control Planning and Design Manual*). A Sediment Basin Designer Spreadsheet will be provided by the NCDOT Roadside Environmental Unit (REU) upon request.
12. The minimum and maximum length to width ratio of all Sediment Basins shall be 2:1 and 6:1, respectively.
13. Coir Fiber Baffles shall be installed in all silt basins at drainage outlets. For silt basins with a 20-foot or longer length, three Coir Fiber Baffles shall be installed with a spacing of 1/4 the basin length. For silt basins with a length less than 20 feet, a minimum of two Coir Fiber Baffles shall be installed, with a spacing of 1/3 the basin length. The Design-Build Team will not be required to show the individual baffles on the Erosion Control Plans; but will be required to incorporate the Coir Fiber Baffle Detail on the Erosion Control Plans.

C. Intermediate Phase

Intermediate Erosion Control Plans shall only be required if design modifications and / or site conditions require additional erosion control design or the Design-Build Team proposes design revisions that impact the RFC Clearing and Grubbing and / or RFC Final Grade Erosion Control Plans. Intermediate Plans shall be submitted for review and shall be accepted prior to construction of any aspect impacted by the revised erosion control design. For any intermediate phase, comply with Section B, "Final Grade Phase" above.

II. Detail Sheets and Notes

- A. Provide construction entrance detail
- B. Provide project specific special details and notes
- C. Provide reforestation sheet(s): regular, wetland, streambank showing appropriate species

ITEMIZED PROPOSAL FOR CONTRACT No. C 201304

Sep 26, 2006 10:56 am

Page 1 of 1

County: Union

Line #	Item Number #	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000900000-N	SP	GENERIC MISCELLANEOUS ITEM DESIGN, & CONSTRUCTION	Lump Sum	L.S.	

1056/Sep26/Q1.0/D 900000 /E1

Total Amount Of Bid For Entire Project: _____