



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

September 12, 2006

Addendum No. 6

RE: Contract ID: C201279
TIP Number: R-4463B
Craven County
Project Description: NC 43 Connector from US 70 to NC 43 / NC 55

October 12, 2006 Letting

To Whom It May Concern:

Reference is made to the Final Request for Proposal with label furnished to you on March 9, 2006 on the above project.

The *COVER SHEET*, the *GEOTECHNICAL SCOPE OF WORK* (Page 64) and the *SIGNING SCOPE OF WORK* (Page 92) have been revised by Addendum No. 6.

One original (labeled) and two copies of the Final RFP (September 12, 2006) that contains all six addenda is being provided for your use. The original labeled RFP (September 12, 2006) must be used to submit the Price Proposal.

An unbound copy of the RFP is supplied for your internal use. 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.

Sincerely,

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

c: Mr. Steve DeWitt, PE (w/) Mr. Shannon Sweitzer, PE (w/)
Mr. Steve Varnedoe, PE Mr. Ron Hancock, PE (w/)
Ms. Deborah Barbour, PE(w/) Mr. Ron Davenport, PE (w/)
Mr. Victor Barbour, PE (w/) Mr. Ed Eatmon, PE (w/)
Mr. Art McMillan, PE Ms. Elizabeth Lusk - Environmental Permits (w/)
Mr. Clarence Coleman, PE FHWA (w/) Mr. Neil Lassiter, PE
Mr. Phillip Harris, PE Mr. Ellis Powell, PE

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT SERVICES 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. Rodger Rochelle, PE (w/)
Ms. Marsha Sample (w/)
Ms. Teresa Bruton, PE (w/)
Mr. Andy Gay (w/)
Ms. Betty Rawls (w/)

Dr. Greg Thorpe, Ph.D.
Ms. Virginia Mabry (w/)
Technical Review Committee Members (w/)
File (w/)

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

FINAL RFP

Includes

Addendum No. 1 March 16, 2006, Addendum No. 2 April 10, 2006

Addendum No. 3 May 1, 2006, Addendum No. 4 May 5, 2006

Addendum No. 5 August 22, 2006,

Addendum No. 6 September 12, 2006



DESIGN-BUILD PROJECT

TIP R-4463B

September 12, 2006

VOID FOR BIDDING

DATE AND TIME OF TECHNICAL AND PRICE PROPOSAL SUBMISSION: **September 20, 2006 AT 4:00 PM**

DATE AND TIME OF PRICE PROPOSAL OPENING: **October 12, 2006 AT 10:00 AM**

CONTRACT ID: C 201279

WBS ELEMENT NO. 35601.3.2

COUNTY: Craven

ROUTE NO. NC 43 Connector

MILES: 2.5 miles

LOCATION: NC 43 Connector from US 70 to NC 43 / NC 55

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

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

tables for all approved pile hammers. A minimum of 30 blows per foot is required to verify the design bearing capacity with a minimum factor of safety of two. Stresses during driving shall not exceed the limits outlined in the FHWA manual "*Design and Construction of Driven Pile Foundations*".

Perform Pile Driving Analyzer (PDA) testing to develop pile driving inspection charts or tables and to verify pile bearing capacity for each pile type and size and hammer to be used for pile installation. Provide PDA testing, and pile driving inspection charts or tables by a NCDOT pre-approved company. Meet the guidelines for NCDOT PDA reports from the Geotechnical Engineering Testing Contract for PDA test reports. To obtain a list of pre-approved Geotechnical Engineering Testing Contract companies to perform PDA testing and guidelines for PDA test report, contact the Geotechnical Engineering Unit Contract Administrator at 919-250-4088. PDA Testing Engineer must be a professional engineer registered in the State of North Carolina. Submit a complete PDA report sealed by the professional engineer who performed the test to the foundation design firm. The foundation design firm shall develop pile driving inspection charts or tables for approval by the Geotechnical Engineering Unit prior to pile installation.

For each bridge that includes pile bents or footing on piles, perform a minimum of one (1) PDA test (dual bridges are counted as one structure) for each pile size, pile type or pile driving hammer. Provide additional PDA testing for any revisions to pile type, size or hammer previously approved. The locations of piles to be PDA tested shall be approved by the Geotechnical Engineering Unit prior to any PDA test. In addition, this correspondence must note whether the proposed PDA locations are for production or non-production piles. For this project, the Department will not require the use of non-production test piles for PDA testing. Test piles in accordance with *ASTM D 4945-89, Standard Test Method for High Strain Dynamic Testing of Piles* and this scope of work.

Use current NCDOT inspection forms for drilled piers available on the Geotechnical Engineering Unit's webpage. The Department will use the Shaft Inspection Device (SID) in accordance with the Drilled Piers Special Provision to inspect all drilled pier excavation that is not hand cleaned. Install Crosshole Sonic Logging (CSL) tubes in all drilled piers. CSL testing shall be required for up to 25% of the drilled piers for each bridge. If a CSL test identifies defect in the drilled pier, then CSL testing more than 25% of drilled piers may be required at the discretion of the Engineer. The Department will determine which piers will be CSL tested. The Geotechnical Engineering Unit will determine if the CSL results are acceptable.

Verify bearing on rock for spread footings in the field during construction.

Provide quality control for all bridge, retaining wall and sound barrier foundations including verifying subsurface conditions for drilled piers and bearing for shallow foundations.

The pre-qualified geotechnical firm that did the original design shall perform any changes to the foundation designs. All changes shall be based upon additional information, subsurface investigation and / or testing. Drilled pier tip elevations shall not be changed during construction

SIGNING SCOPE OF WORK (9/12/06)

General: The Design-Build Team shall prepare Signing Plans in accordance with the latest edition of the *2003 Manual on Uniform Traffic Control Devices (MUTCD)*, the *2004 NC Supplement to the MUTCD*, *NCDOT Standard Specifications for Roads and Structures* (January 2002), the NCDOT Roadway Standard Drawings (January 2002) for the design and development of signing plans, the latest Standard Specifications for *Structural Supports for Highway Signs, Luminaires, and Traffic Signals* published by AASHTO, and the contract requirements for signing plan design, preparation and construction. All electrical installations and coordination are the Design-Build Team's responsibility and must meet NEC, State, and local codes. All electrical / electronics equipment and devices must be UL approved and listed.

Signing Plan Requirements: The Design-Build Team shall select a Private Engineering Firm (PEF) that has experience in designing and sealing Signing Plans for NCDOT on projects comparable to this project. The Technical Proposal shall list projects developed by the PEF, including description and similarity, to the subject project. The Design-Build Team shall include preliminary signing plans for this project in their Technical Proposal.

The development of the Signing Plans shall adhere to the "Design-Build Submittal Guidelines" and the "Guidelines for Preparation of Signing Plans for Design-Build Projects", which by reference are incorporated herein and made a part of the contract. These documents are available on the Design-Build website.

Signs Furnished by Design-Build Team: The signs shall be furnished by the Design-Build Team according to the specifications provided by the Department.

Signing Project Limits: The Design-Build Team shall be responsible for the design, fabrication and installation of all Type A, B, D, E and F signs along the mainline, -Y- Lines, service roads, ramps and cul-de-sacs; including but not limited to, the advance guide signs on US 70 and NC 43 / 55 for the NC 43 Connector interchange.

The Design-Build Team shall route NC 43 onto the Connector and terminate NC 43 at the US 70 interchange. The Design-Build Team shall confirm the routing of NC 43 onto the connector with the Division and Regional Traffic Engineer. The Design-Build Team shall not be responsible for any future signing or overhead sign structures for R-2301A.

The anticipated posted speed limit on the new facility is 55 mph. The Design-Build Team shall coordinate the posted speed limit for this facility with the Regional Traffic Engineer.

Sign Design: The Design-Build Team shall be responsible for all sign designs and installations required for the mainline, as well as all -Y- Lines, service roads, ramps and cul-de-sacs. The Design-Build Team shall be responsible for the removal of existing NC 43 directional f-assemblies on Neuse Boulevard, Glenburnie Road, interchange of US 70 and Glenburnie Road, including the ramps, and the intersection of US 17 and Glenburnie Road. The Design-Build Team shall be responsible for removing NC 43 route shields from any advance guide signs on US 70 for Glenburnie Road. The Design-Build Team shall coordinate the removal of NC 43 f-assemblies with the Division Traffic Engineer. **The Design-Build Team shall design and install added lane signing for the US 70 off ramps onto and on the NC 43 Connector (See Roadway Scope of Work).** The Design-Build Team shall be responsible for all Type A, B, and D sign designs and installations for ground mounted and overhead signs. The Design-Build Team shall be responsible for erecting existing Type A, B, or D signs on new supports. If existing Type A, B, or D signs are not in good