



COLLIN COUNTY, TEXAS

ADDENDUM No. Two (2)

IFB NO. 2015-156

INVITATION FOR BIDS FOR

**Construction, Bridge: County Road 317 over Wilson Creek**

DATE: April 28, 2015

NOTICE TO ALL PROSPECTIVE BIDDERS:

YOU ARE HEREBY DIRECTED TO MAKE CHANGES TO THE INVITATION FOR BIDS IN ACCORDANCE WITH THE ATTACHED INFORMATION.

ADD: Engineer's Addendum No. 2

PLEASE NOTE ALL OTHER TERMS, CONDITIONS, SPECIFICATIONS DRAWINGS, ETC. REMAIN UNCHANGED.

SINCERELY,  
MICHALYN RAINS  
PURCHASING AGENT



**Binkley & Barfield** | C&P  
consulting engineers

**April 28, 2015  
ADDENDUM NO. 2**

**CONSTRUCITON, BRIDGE:  
COUNTY ROAD 317 OVER WILSON CREEK**

**NOTICE TO ALL PROSPECTIVE BIDDERS:**

This addendum forms part of the Contract Documents. Bidders shall acknowledge receipt of the Addendum in the spaces provided in the Contract Documents. Failure to acknowledge receipt of this Addendum may subject the Bidder to disqualification.

**CONTRACT DOCUMENTS:**

**REVISIONS**

- **Replace Construction Plans, Sheet 02, General Notes with attached Sheet 02**
  - Revised General Note E.1. to indicate concrete surface finish shall be ordinary surface finish per TxDOT 420.4 M.
  - Note: General Note E.2. is still applicable and applies to the bridge deck.

This addendum will be included in and made a part of the Contract Documents.

Binkley & Barfield– C&P, Inc.

Richard A. Arvizu, P.E., CFM  
April 28, 2015

**GENERAL NOTES**

**A. SPECIFICATIONS**

1. Controlling Specifications for design and construction of this project are:
  - a. DESIGN SPECIFICATIONS  
Highway bridge design live load is HL93.  
AASHTO LRFD Bridge Design Specifications, 2012
  - b. CONSTRUCTION AND MATERIAL SPECIFICATIONS  
Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges adopted by the Texas Department of Transportation 2004, as listed or referred to in the specifications.

**B. EARTHWORK**

1. Contractor shall be responsible for any clearing and grubbing required for the proposed work in accordance with TxDOT Item 100 unless otherwise noted.
2. Creek excavation and grading of slopes shall be in accordance with TxDOT Item 110 unless otherwise noted.
3. Excavation for backfilling bridge abutments and wing walls shall be in accordance with TxDOT Item 400 unless otherwise noted.
4. Excavation for roadway shall be in accordance with TxDOT Item 110. Backfill for roadway embankments shall be placed in accordance with TxDOT Item 110. Backfill for roadway embankments shall be placed in accordance with TxDOT Item 132 unless otherwise noted.
5. Borrow material for roadway embankment shall be in accordance with TxDOT Item 132, Type B, Class 3 and shall be on-site soils or borrow materials not contaminated by organics and other debris or rock greater than six (6) inches in maximum dimension and shall be suitable for formation of a stable embankment. Suitability of backfill material shall be determined by Collin County.
6. All backfill for roadway, bridge abutments and wing walls shall be compacted based on "Density Control" per TxDOT Item 132 unless otherwise noted. Density shall be 95% of the Standard Proctor (ASTM D698) at moisture contents within two (2) percent density of the optimum moisture content.
7. Compaction testing shall be nuclear method conforming to ASTM D2922 (Density) and ASTM D3017 (Moisture).
8. Compaction shall be obtained mechanically in accordance with TxDOT Item 210. No water jetting allowed.
9. Equipment used for compaction shall be equipment specifically designed for the purpose of compacting soil materials.
10. An independent testing laboratory will be required to submit reports that clearly show that compliance with these notes and the project specifications have been met. (Refer also to Note M) Reports to be submitted to Collin County.

**C. CONCRETE**

1. All concrete shall be furnished and placed in accordance with TxDOT Items 420 and 421 as amended by the Special Provisions of the technical specifications, and ASTM C94 and in compliance with A.C.I. hot weather or cold weather concreting recommendations unless otherwise noted. The more stringent specification or requirement shall be met.
2. All cast-in-place concrete for abutments and wing walls shall be Class "C" having a minimum compressive strength of 3600 psi at 28 days.
3. All cast-in-place concrete for drilled shafts shall be Class "C" having a minimum compressive strength of 3600 psi at 28 days.
4. All cast-in-place concrete for concrete riprap shall be Class "B" having a minimum compressive strength of 2000 psi at 28 days.
5. All concrete for the prestressed concrete beams shall be Class "H" having a minimum compressive strength as shown on plan sheet "Prestressed Concrete Beams".
6. All concrete for bridge slabs shall be Class "S" having a minimum compressive strength of 4000 psi at 28 days.
7. Testing (Refer also to Note M).
  - a. Mix design confirmation shall be required of each strength and class of concrete, from each different supplier and for each different phase of work. The confirmation shall be performed by an independent testing laboratory and the results shall be submitted to Collin County Engineering Department for approval prior to concrete installation on the project.
  - b. The laboratory shall mold sets of 5 cylinders for compressive strength tests. The sets of cylinders are to be tested
    - 2 @ 7 days, 2 @ 28 days and one hold cylinder. A set of cylinders shall be cast for each mix used each day and for each different phase of work (i.e., piers, beams, slab). The frequency of cylinder sets shall be 1 set per 25 cubic yards of each mix used each day and for each different phase of work. Frequency of cylinder sets for continuous pours in excess of 100 cubic yards of concrete shall have 2 cylinder sets in the first 100 cubic yards and one set in each 100 cubic yards thereafter, for each mix used for each phase of work in each days work. The testing laboratory shall perform testing accordance to ASTM C172 (sampling), ASTM C31, (molding and curing cylinders), ASTM C143 (slump), ASTM C231 or ASTM C173 (air entrainment tests), and ASTM C39 (compressive strength tests).
  8. See specifications regarding evaluation of concrete strength.
  9. See specifications regarding removal of forms.

**D. PRESTRESSED CONCRETE BEAMS**

1. The prestressed concrete beams shall conform to the requirements of TxDOT Items 425 and 426 unless otherwise noted. Also, refer to plans for additional information.

**E. CONCRETE FINISH**

1. Concrete surface finish shall be ordinary surface finish per TxDOT Item 420.4 M.
2. Bridge Deck Concrete Surface Treatment shall be Class I per TxDOT Item 428.

**F. REINFORCING STEEL**

1. All reinforcing steel shall be in accordance with TxDOT Item 440 unless otherwise noted and the following:
  - a. All reinforcing steel shall conform to ASTM A615 grade 60, except as noted in b below.
  - b. Any reinforcing steel to be welded shall conform to ASTM A706.
  - c. Unless otherwise shown on the plans, all reinforcing bars shall have a lap in accordance with ACI 318-02.

**GENERAL NOTES CONTINUED**

**G. METALS FABRICATION**

1. Structural steel for armor joints and embedded items shall conform to TxDOT Item 441, as amended by the Special Provisions of the technical specifications, and TxDOT Item 442 unless otherwise noted.
2. Structural steel shall conform to the requirements of ASTM A36.
3. Bridge railing shall conform to TxDOT Item 450.
4. Bolting and welding shall conform to TxDOT Items 447 and 448 as amended by the Special Provisions of the technical specifications.

**H. DRILLED SHAFTS**

1. All drilled shaft founding elevations are approximate. The drilled shafts shall be founded at the elevations shown or to greater depths as determined by the County Representative to obtain the minimum specified penetration in to the founding stratum.
2. Drilled shafts shall be constructed in accordance with TxDOT Item 416.
3. All drilled shafts should have a minimum penetration depth into the hard gray unweathered shaley limestone of 5 feet or 2D, whichever is larger. All design penetrations should be measured from the bottom of any temporary casings (if required) seated in the hard gray unweathered shaley limestone. Specified pier penetrations should not be counted on within the cased length of any pier.
4. An independent testing laboratory shall be present during all pier drilling operations. The Contractor shall cooperate fully with the laboratory in order to assimilate report data. Required information is:
  - a. Pier Design and Location
  - b. Date Drilled
  - c. Date Concrete Placed
  - d. Shaft Diameter
  - e. Ground Elevation of Pier
  - f. Top Elevation of Pier (Design/Actual)
  - g. Bottom Elevation (Design/Actual)
  - h. Deviation from Design (+ or -)
  - i. Steel Reinforcement used: Describe Size, Vertical Bars, Ties and Spacing or Spiral and Pitch
  - j. Splices (at what elevation) (if any)
  - k. Length of Casting Used (if any)
  - l. Depth of Bearing Strata
  - m. Penetration into Bearing Strata (Design/Actual)
  - n. Total Pier Length
  - o. Piers Comply with Plans and Specifications (yes/no)
  - p. Measurements in Feet and Tenths

**I. UTILITIES**

1. The information shown on the plans concerning type and location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of underground and other utilities as may be necessary to avoid damages thereto and any relocations required by the owner of the utilities. All utilities damaged by the Contractor shall be repaired or replaced at his expense.

**J. SUBSURFACE INFORMATION**

1. Subsurface information is available in the following report:  
Bridge Replacement - County Road 317 at Wilson Creek  
AGG Report No. E14-0704  
Presented By:  
Alliance Geotechnical Group  
7970 West Main Street  
Frisco, Texas 75033  
Dated: September 3, 2014

Neither Collin County nor Binkley & Barfield - C&P, Inc. will accept any responsibility for the accuracy or completeness of said data. The geotechnical reports may be viewed in the Collin County Engineering Department, 4690 Community Ave., Suite 200, McKinney, Texas, 75071 and the offices of Binkley & Barfield - C&P, Inc., Richardson, Texas.

**K. REMOVAL OF EXISTING STRUCTURE**

1. See specifications and plans regarding the removal and disposal of the existing structure.

**L. FENCES**

1. The Contractor shall be responsible for removing and replacing all fences that are designated to be relocated in the Plans, or are disturbed or removed by him during construction. All such fences shall be constructed in accordance with TxDOT Drawings (Chain-Link Barrier Fences-CLF and Barbed Wire Fence and Woven Wire Fence, Timber Posts-WF) and TxDOT Items 550 and 552. Final location of fence shall be confirmed by the Contractor with the County Inspector. Replace gates with Type 3 gate.
2. Where fences are removed by the Contractor, temporary fences shall be provided by the Contractor to protect livestock. Such fences are to be constructed immediately upon removal of the existing fence, and shall remain in place for the duration of the construction and until the permanent replacement fence is installed. Temporary fences shall be constructed of suitable equality (equal to, or better than existing) to retain the livestock. Contractor is solely and entirely responsible for the loss of existing livestock present on each property and adjacent at each work site due to missing or inadequate fences removed or installed by him.

**GENERAL NOTES CONTINUED**

**M. TESTING**

1. Collin County shall be responsible for hiring an approved testing laboratory. The Contractor shall notify the laboratory and the Collin County Engineering Department 24 hours in advance of required testing. Additional testing may be required on "questionable" material as directed by Collin County Engineering Department or upon the request of the Independent Laboratory. The cost of additional testing or evaluations of tests to be borne by the Contractor. The testing laboratory may be requested to review its test reports and provide an evaluation as to the quality of workmanship or materials tested. This may be requested by the Engineering Department of Collin County. The laboratory may reject questionable materials and workmanship which does not comply with applicable specifications.
2. See specific requirements for testing of various materials as indicated on the plans and project specifications. In case of conflict, the notes shown in the plans shall govern.

**N. CONSTRUCTION DAMAGE**

The Contractor shall perform work activities within the right-of-way limits shown on the plans. The Contractor shall be responsible for protecting adjacent properties outside the work area from damage due to his work activities. The Contractor shall be solely liable for any damage due to property trespassed upon by him. In the event of such trespassing and ensuing damage by the Contractor, the Contractor shall obtain, from the affected property owner, a written, signed and notarized "Release of All Claims" indemnifying the County and Binkley & Barfield - C&P, Inc. from any and all liability to the property owner for damages. Notarized copies of said documents shall be furnished to the aforementioned parties.

**O. SEEDING (PERMANENT)**

Contractor shall install permanent soil retention blankets at the locations shown in the plans (roadway foreslopes). Product shall be Recylex TRM, Landlok TRM450, or approved other from TxDOT Approved Product List for Class 2, Type G Soil Retention Blanket with effective date of June 1, 2015 or after. Contractor shall follow manufacturer's installation guidelines. Price shall include all materials and labor required for installation, including, but not limited to anchoring stakes, etc. Seeding shall be paid by separate pay item.

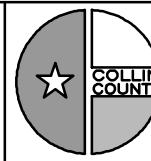
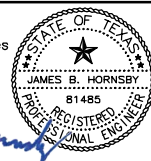
**P. DEWATERING/DIVERSION OF WATER**

Wilson Creek at the CR 317 location typically contains water. Contractor shall develop and implement, as needed, a dewatering/water diversion plan to be approved by the County in order to perform grading and stone riprap placement within the channel. Price for all materials and labor to develop, implement, maintain, and remove the required components, which may or may not include dams, corrugated metal pipe culverts, and pumping systems, shall be considered incidental to other bid items.

**CAUTION EXISTING UTILITIES !!!**

Existing utilities and underground facilities indicated on these plans have been located from reference information. It shall be the responsibility of the contractor to verify both horizontally and vertically the location of all existing utilities and underground facilities prior to construction, to take the necessary precautions in order to protect all facilities encountered. The contractor shall preserve and protect all existing utilities from damage during construction.

The seal appearing on this document was authorized by James B. Hornsby, P.E. Tx. No. 81485. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act.  
April 28, 2015



**COLLIN COUNTY**  
ENGINEERING DEPARTMENT  
MCKINNEY, TEXAS



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COLLIN COUNTY - C.R. 317  
OVER WILSON CREEK

**GENERAL CONSTRUCTION NOTES**

Scale: N/A Date: Apr 27, 2015 Job No.: BC14054

N: BC14054 - City Rd 317 over Wilson Creek V05 CAD Title: BC14054-01.dwg - BC14054-01.dwg - 2015 at 5:21pm by Tony | Last Saved by: raa

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