Stream Restoration of Mill Pond Creek at Rugby Middle School

ADDENDUM #3

May 29, 2015

Please incorporate the following into the bid documents.

Jeffrey L. Young, PE

1. Please replace the BID/ACCEPTANCE FORM (pages 2-4) with the attached pages, BID/ACCEPTANCE FORM Revised May 29, 2015 (pages 2-4).

2. Please replace STREAM RESTORATION OF MILL POND CREEK VEGETATION & MATTING SPECIFICATIONS, Sheet 8 of 8 dated April 30, 2015 with STREAM RESTORATION OF MILL POND CREEK VEGETATION & MATTING SPECIFICATIONS, Sheet 8 of 8 dated May 27, 2015.

3. Add the following for bare root seedlings:
   In addition to live stakes, small trees and shrubs shall be planted at a spacing of 300 per acre by utilizing cluster group planting according to the NC Forest Service “Riparian & Wetland Tree Planting Pocket Guide for NC”
   An even mix which shall include a minimum of 5 species of trees and 5 species of shrubs. Species mix shall be approved by the Owner.
4. Please replace the following items: MILL POND CREEK RESTORATION, RUGBY MIDDLE SCHOOL, HENDERSON COUNTY (May 2015) by Confluence Engineering, Andrew David Bick, PE:
   - NC E&S PLAN – SHEET 1 OF 3
   - NOTES AND SEQUENCE – SHEET 2 OF 3
   - DETAILS – SHEET 3 OF 3

With: MILL POND CREEK RESTORATION, RUGBY MIDDLE SCHOOL, HENDERSON COUNTY (28 May 2015) by Confluence Engineering, Andrew David Bick, PE:
   - NC E&S PLAN – SHEET 1 OF 3
   - NOTES AND SEQUENCE – SHEET 2 OF 3
   - DETAILS – SHEET 3 OF 3
BID/ACCEPTANCE FORM (Revised May 29, 2015)

For

Stream Restoration of Mill Pond Creek at Rugby Middle School

3345 Haywood Road, Hendersonville, NC 28791

We are in receipt of Addendum 1 2 3 4

The undersigned, as bidder, proposes and agrees if this bid is accepted to contract with the Henderson County Soil and Water Conservation District for the furnishing of all materials, equipment, and labor necessary to complete the construction of the work described in these documents in full and complete accordance with plans, specifications, and contract documents, and to the full and entire satisfaction of Henderson County and the Henderson County Soil and Water Conservation District for the sum of:

BASE BID (Includes Reach B): Dollars $

ADD ALTERNATE (Includes Reach A): Dollars $

UNIT PRICES

All quantities on plans are estimates only. Contractor is responsible for determining quantities for items in his base bid and alternates. The items listed below in the UNIT PRICE ITEMS are to be included in the base bid and alternates at quantities listed below. Payment for the following Unit Price items will be based upon actual quantities as determined by the Owner or his representative when making final payment.

<table>
<thead>
<tr>
<th>UNIT PRICE ITEMS</th>
<th>BASE BID</th>
<th>Add ALTERNATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item#</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>1</td>
<td>Silt Fence, installed and maintained</td>
<td>LF</td>
</tr>
<tr>
<td>2</td>
<td>Seeding, permanent</td>
<td>acre</td>
</tr>
<tr>
<td>3</td>
<td>Seeding, temporary</td>
<td>acre</td>
</tr>
<tr>
<td>4</td>
<td>Trees, installed</td>
<td>EA</td>
</tr>
<tr>
<td>5</td>
<td>Small Trees/Shrubs, installed</td>
<td>EA</td>
</tr>
<tr>
<td>6</td>
<td>Livestakes, installed</td>
<td>EA</td>
</tr>
<tr>
<td>7</td>
<td>Rock Cross Vane</td>
<td>EA</td>
</tr>
</tbody>
</table>

TOTAL OF UNIT PRICE ITEMS INCLUDED IN: BASE BID ADD ALTERNATE
Respectively submitted this __________day of________________________20____

________________________________________

(Contractor’s Name)

Federal ID#:_____________________________  By:____________________________________

Witness:_______________________________  Title:____________________________________

(Proprietorship or Partnership)

Address:__________________________________  (Owner, partner, corp. Pres. Or Vice President)

Attest: (corporation)  Email Address:________________________________________

________________________________________

(Corporate Seal)

By:____________________________________  License #:____________________

Title:__________________________________  (Corporation, Secretary./Ass’t Secretary.)

________________________________________

ACCEPTED by Henderson County
Through the
Henderson County Soil and Water Conservation District
(Agency/Institution)

Total amount of accepted by the owner, included base bid and bid alternates:________________________

BY:____________________________________  TITLE:____________________
ATTACHMENTS TO THIS BID

The following documents are attached to and made a condition of this Bid/Contract:

A. General Conditions

B. Supplementary General Conditions

C. Plan sheets titled (incorporated by reference do not attach to Bid): Stream Restoration of Mill Pond Creek Sheet No. 1 through 8 dated April 30, 2015

D. Sediment and Erosion Control Plans to be incorporated with an Addendum.

E. All Addenda posted through May 28, 2015 (incorporated by reference do not attach to Bid)

F. Contractor Qualification Statement

   a) Please attach a document describing projects, similar in nature to this one, which have been completed by the Bidder within the past 5 years. Include at least the following information: project name, project owners name, project cost, short description and a person we can call about the project – include their phone number and email address.

   b) List key personnel who will be working on this project. Describe some relevant prior projects and/or training they have completed and include a way to contact them.

   c) Feel free to attach any other information that helps document the Bidder is qualified to do this project. Some examples may be certificates from trainings, classes, etc.

G. See Henderson County Insurance and Bond Requirements posted under General Information at http://ww2.hendersoncountync.org/rfp/index for the following:

   a) Insurance (if appropriate) per Article 11. Attach proof of insurance to Bid.

   b) Bonds (if appropriate) per Article 12 (NA, No bonds required for this project)

   c) For Disadvantaged Business Enterprise requirements, see Minority Business Participation Guidelines posted under General Information at http://ww2.hendersoncountync.org/rfp/index

H. Contractors with 25 or more employees as defined in Article 2 of Chapter 64 of the NC General Statues must verify compliance with the E-verify, NCGS 160A-20.1(b).
ALL SLOPES GREATER THAN 2:1 SHALL BE SEEDED WITH HYDROSEEDING EQUIPMENT. STEEP SLOPES SHALL HAVE SCAFFOLED SURFACES WITH TRENCHES 1-2 INCHES DEEP AND 5-12 INCHES APART ACROSS THE SLOPE IN WHICH THE SEEDS CAN LODGE AND GERMINATE.

RECOMMENDED PLANTING MIXTURE CONTENT*

*Apply seed mixture at a rate of 30 pounds per acre. Seed content may vary but is limited to grasses listed below.

- Dactylis glomerata (Orchardgrass): 20%
- Panicum clandestinum (Daper Tongue): 10%
- Hordeum spor (Barley): 20%
- Secale cereale (Rye Grain): 20%
- Pteris glaucum (Brown Top Millet): 20%
- Lime and Fertilizer

Lime: 2,000 pounds / acre of finely ground, dolomitic limestone
Fertilizer: 400 pounds / acre of 10-10-10 or equivalent

**These rates also apply when hydroseeding

RECOMMENDED NATIVE PLANT SPECIES FOR RIPARIAN AREA

- Silverbell
- Bitternut Hickory
- Persimmon
- Yellow Buckeye
- Green Ash
- Shagbark Hickory
- Sweet-shrub
- Umbrella Tree
- Alternate Leaf Dogwood
- Dog hobble
- Swamp Rose
- Spicebush
- Hazel-nut
- Alternate Leaf Dogwood
- Ironwood
- Male-beny
- Wild Azalea
- Sweet Leaf
- Silky Willow
- Willow

SMALL TREES/SHRUBS

- Tag Alder
- Hackberry
- Red Chokecherry
- Common Maple
- Sweet Hickory
- Sugar Maple
- Yellow Birch
- Yellow Birch
- White Birch
- White Maple
- White Oak
- Norway Maple
- Sweet定位
- Swamp Willow
- Willow

NOTE: ALL DISTURBED AREAS RESULTING FROM THIS PROJECT, INCLUDING ACCESS AND HAUL ROADS, SHALL BE VEGETATED ACCORDING TO THE SPECIFICATIONS LISTED ABOVE. TOTAL NUMBER OF LIVESTOCKS REQUIRED FOR THIS PROJECT IS ESTIMATED AT 4,100.

STATE OF NORTH CAROLINA
DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
DIVISION OF SOIL AND WATER CONSERVATION
WESTERN HEADQUARTERS
1320 FANNING BRIDGE ROAD, FLETCHER, NC 28732

STREAM RESTORATION OF MILL POND CREEK
VEGETATION & MATTING SPECIFICATIONS
HENDERSON COUNTY, NORTH CAROLINA

DATE: MAY 27, 2015

REVISIONS

PROJECT:

FILE NAME:

SCHEDULE:

SCALE:

NOT TO SCALE

STATE: NORTH CAROLINA

FILENAME: vegetation.dwg
GENERAL CONSTRUCTION NOTES FOR ALL REACHES
1. MILL POND CREEK HAS A WS-V CLASSIFICATION AND DRAINS TO A PUBLIC WATER SUPPLY.
2. PLAN APPROVAL FROM NCDENR ASHEVILLE REGIONAL OFFICE IS REQUIRED PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOTIFY ARD INSPECTOR BEFORE WORK BEGINS AND PRIOR TO DEMOLIZING.
3. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
4. IN-STREAM WORK SHALL BE CONducted IN THE DRY. CONTRACTOR SHALL INSTALL PUMP-AROUND SYSTEMS TO DIVERT FLOW FROM THE WORK AREA. THE CONTRACTOR SHALL OPERATE AND MAINTAIN THE PUMP-AROUND SYSTEMS 24 HOURS A DAY UNTIL ALL DISTURBED AREAS WITHIN THE PUMP-AROUND AREA CAN BE STABILIZED BY THE END OF THE WORK DAY. THE CONTRACTOR SHALL NOT REMOVE PUMP-AROUND SYSTEMS AND ADVANCE TO THE NEXT WORK AREA UNTIL THE CURRENT WORK AREA IS COMPLETED AND STABILIZED.
5. NO MATERIAL FROM THE OFF-LINE CHANNEL EXCAVATION MAY BE BACKFILLED INTO ADJACENT, ABANDONED CHANNEL SECTIONS UNTIL THE NEWLY CONSTRUCTED CHANNEL SECTION IS COMPLETED AND STABILIZED, AND THE STREAM FLOW HAS BEEN DIVERTED INTO THE NEWLY CONSTRUCTED CHANNEL SECTION, EVEN IF WATER IN THAT SECTION OF ABANDONED CHANNEL IS BEING DIVERTED.
6. IN AREAS WITHOUT A PUMP-AROUND SYSTEM, THE CONTRACTOR SHALL DISTURB ONLY AS MUCH CHANNEL AS CAN BE STABILIZED WITH SEEDING, MULCH AND EROSION CONTROL MATTING BY THE END OF EACH WORK DAY.
7. CLEARING AND GRUBBING ACTIVITIES SHALL NOT EXTEND MORE THAN 150 LINEAR FEET AHEAD OF IN-STREAM WORK.
8. WHEN CROSSING AN ACTIVE SECTION OF CHANNEL, A TEMPORARY STREAM CROSSING SHALL BE INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS.
9. SEE TABLE 1.1.1 SHEET FOR GROUND STABILIZATION REQUIREMENTS.
10. LOCATIONS FOR STAGING AND STOCKPILE AREAS AND STREAM CROSSINGS SHALL BE SELECTED BY THE CONTRACTOR SO AS TO MINIMIZE THE POTENTIAL FOR SOIL TO BE RELEASED TO THE STREAM.

PHASE 1: MOBILIZATION AND GENERAL SITE PREPARATION
1. MOBILIZE EQUIPMENT AND MATERIALS TO THE SITE. LOCATE LIMITS OF DISTURBANCE.
2. ESTABLISH CONSTRUCTION ENTRANCES/EXITS AND STAGING AREAS. INSTALL TEMPORARY STREAM CROSSINGS AS NEEDED TO ACCESS WORK AREAS.
3. ESTABLISH CONSTRUCTION HAUL ROUTES AND MINIMIZE DISTURBANCE BEYOND IMMEDIATE HAUL ROUTES AND GRADING LIMITS. STABILIZE HAUL ROUTE SURFACES WITH STONE AND FILTER FABRIC AS NEEDED.
4. ALL HAUL ROADS SHALL BE MONITORED FOR SEDIMENT LOSS ON A DAILY BASIS. IN THE EVENT OF SEDIMENT LOSS, SILT FENCE OR OTHER APPROPRIATE SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE INSTALLED. STABILIZED SILT FENCE OUTLETS SHALL BE LOCATED AT POINTS OF LOW ELEVATION OR A MINIMUM SPACING OF 150 LINEAR FEET.
5. ANY STOCKPILED MATERIALS NOT USED FOR BACKFILL WITHIN 7 DAYS OF EXCAVATION SHALL BE STABILIZED WITH TEMPORARY SEED AND STRAW MULCH.

PHASE 2: CHANNEL CONSTRUCTION
1. BASE FLOW SHALL BE DIVERTED PER THE PLANS. INSTALL TEMPORARY COFFER DAMS UPSTREAM AND DOWNSTREAM OF WORK AREA. INSTALL PUMP, SUCTION AND DISCHARGE LINES, AND DIVERT FLOW AROUND THE-IN AREA, INSTALL DEWATERING PUMP IN WORK AREA AS NEEDED AND DISCHARGE THROUGH Silt BAG.
2. PERFORM EARTHWORK, IN-STREAM STRUCTURE INSTALLATION, CHANNEL PLUGS, SEEDING, MULCHING AND MATTING PER THE PLANS.
3. BACKFILL ABANDONED CHANNEL SECTIONS AND PERMANENTLY DISPOSE OF EXCESS EXCAVATED MATERIAL IN APPROVED UPLAND OR OFF-SITE AREA. SILT FENCE SHALL BE INSTALLED ON THE CREEK SIDE OF ALL TEMPORARY STOCKPiles.
4. TEMPORARILY DISMANTLE FLOW DIVERSION PRIOR TO FLOOD EVENT THAT EXCEEDS CAPACITY OF DIVERSION. ENSURING THAT WORK AREAS ARE FULLY STABILIZED.
5. ONCE RESTORED CHANNEL IS FULLY STABILIZED, DISMANTLE PUMPS, DISCHARGE LINES AND COFFER DAMS AND RETURN FLOW TO RESTORED CHANNEL.

PHASE 3: DEMOLITION AND PLANTING
1. UPON COMPLETION OF STREAM AND FLOODPLAIN GRADING OPERATIONS, STOCKPILED MATERIALS, CONSTRUCTION ENTRANCES/EXITS AND TEMPORARY STREAM CROSSINGS SHALL BE REMOVED, AND THE CONSTRUCTION HAUL ROUTES AND STAGING AREAS SHALL BE GRADED, SEEDED AND MULCHED AS NEEDED TO RESTORE THEM TO THEIR PRE-PROJECT CONDITIONS. SILT FENCES SHALL BE REMOVED ONLY AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED ON DISTURBED AREAS.
2. THE CONTRACTOR SHALL ENSURE THAT THE SITE IS FREE FROM TRASH AND CONSTRUCTION MATERIALS PRIOR TO DEMOLITION OF EQUIPMENT FROM THE SITE.
3. LIVE STAKING AND SUPPORT AND FERTILIZER AND SHRUB PLANTING SHALL BE COMPLETED AFTER GRADING OPERATIONS ARE COMPLETE AND DURING THE DORMANT SEASON (NOVEMBER TO APRIL).

<table>
<thead>
<tr>
<th>Site Area Description</th>
<th>Stabilization Time Frame</th>
<th>Stabilization Time Frame Exceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perimeter dikes, swales, ditches and slopes</td>
<td>7 days</td>
<td>None</td>
</tr>
<tr>
<td>High Quality Water (HQW) Zones</td>
<td>7 days</td>
<td>None</td>
</tr>
<tr>
<td>Slopes Steeper than 3:1</td>
<td>7 days</td>
<td>If slopes are 10’ or less length and are not steeper than 2:1, 14 days are allowed</td>
</tr>
<tr>
<td>Slopes Flatter than 3:1</td>
<td>14 days</td>
<td>7 days for slopes &gt; than 50’ in length</td>
</tr>
<tr>
<td>All other areas with slopes &lt; 4:1</td>
<td>14 days</td>
<td>None (except for perimeters and HQW)</td>
</tr>
</tbody>
</table>

Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impractical.