

NOTICE

REQUEST FOR PROPOSALS
FOR
MAINTENANCE REPAIRS
On
Laterals and Drainageways
Within The
LIMESTONE CREEK AND MUDDY CREEK WATERSHED PROJECTS
DUPLIN COUNTY, NORTH CAROLINA

The Duplin County Board of Commissioners is seeking proposals for maintenance repair work on Laterals and Drainageways within the Limestone Creek and Muddy Creek Watershed Project areas in Duplin County, North Carolina.

A **group site showing** is scheduled for **Tuesday, April 13, 2010**. Prospective bidders are **required** to meet at the **Duplin Soil & Water Conservation District/NRCS Office, Room 208 at 165 Agriculture Drive in Kenansville, NC**, at **9:00 A.M.** to attend a group showing of work sites. This will be the only showing of the work sites.

Maintenance repair work includes repair/replacement of pipes/culverts; sediment dip out; hauling/placement of fill dirt and rock rip rap; grading, shaping, fertilizing, seeding, netting and mulching of sites; mowing of vegetation and removal of debris as necessary.

Work sites will be coordinated/prioritized with Duplin County NRCS/Soil and Water Conservation personnel (Inspector) prior to beginning work. Work shall be completed by **September 1, 2010**, or liquidated damages will be assessed at a rate of \$50 per day.

All proposals must be received in the Duplin County NRCS/Soil and Water Conservation District Office by 2:00 PM on Friday, April 16, 2010, and shall be opened at that time. Proposal envelope should be marked "Maintenance Repair Proposal". Additionally, the proposal should include 1) a certificate of general liability insurance in the amount of *one-million dollars (\$1,000,000)*. NOTE: If explosives are to be used at any time during this contract period, the requirement for general liability insurance is increased to the amount of two-million dollars (\$2,000,000); 2) worker's compensation insurance, 3) a list of any subcontractors and/or employees that may be used on the job (this list will be the only time to name any employees and/or subcontractors), 4) a list of references, 5) a detailed list of the equipment that the employees or subcontractors will be using on the job, and 6) a letter of intent from your performance bond company. The proposals may be delivered to 165 Agriculture Drive, Suite B, Kenansville, NC, 28349 Monday through Friday, 8:00 AM to 5:00 PM, or mailed to 165 Agriculture Drive, Suite B, Kenansville, NC 28349. Proposals that do not arrive by 2:00 PM on opening date will not be considered. Faxed or e-mailed proposals will not be accepted.

The successful bidder will be required to execute a contract. *The bidder will be required to furnish to the County a performance bond in the penal sum of not less than one hundred (100%) of the original contract amount. Performance Bond may be used for this purpose and will be supplied*

by the successful bidder at the time of the award of the contract. Also, a copy of the insurance coverage policy is required at the time of the award of the contract.

The right is reserved to reject any or all proposals. Any proposal that is deemed deficient in any regard can be rejected regardless of how it compares with any other bid amount proposed by any other bidder.

This request for proposals consists of listed work items. The proposals received from different bidders will be compared on the basis of the sum of the bids for all of the listed items. That is, the overall low bid, unless somehow deemed deficient, will be awarded the contract to complete the work. The County of Duplin reserves the right to award a contract to complete some but not all of the listed items. If the contract awarded is to complete less than the listed work items, the contract price will be based on the listed work item prices submitted by the bidder as a result of this request.

Further, if the initial contract is to complete less than the listed work items described in this request for proposals, additional funds may be allocated in the future to complete some or all of the other work items described in this request for proposals. Any additional funding, if it becomes available, will be added to the initial contract by contract modification. In the event of additional funds becoming available and the original contract being modified, the contractor will complete the additional work item(s) for the price bid in his/her original proposal.

All work, whether initially funded or added to the contract because of additional funding, must be completed by **September 1, 2010**.

If interested in submitting a proposal for this work, a complete packet of information may be obtained at the Duplin Soil and Water Conservation District/NRCS Office at 165 Agriculture Drive, Suite B in Kenansville or by calling 910-296-2120, Monday thru Friday, 8:00 AM – 5:00 PM.

Bid Specifications:

General Specifications

All graded, disturbed and filled areas, including channel side slopes, banks, etc. will be smoothed, seeded, mulched and netted as follows. These specifications apply to each work item.

Fill Material

All fill material used to repair items and/or components of items included in this contract shall meet the SC criteria (i.e. more than half of material by weight will pass a No. 200 sieve) or finer as defined by the Unified Soil Classification System. Additionally, the material shall be free of roots, rocks and/or other foreign materials.

Riprap and Geotextile Fabric

Unless otherwise specified, riprap shall be Class 1 Stone as described by the NC Aggregate Association. The riprap thickness when installed shall be $1.5D_{\max}$ or 2 ft which ever is greater. ($D_{\max} = 1.5d_{50}$, d_{50} =median diameter of 50% of aggregate). Additionally, all nonwoven geotextile fabrics shall meet or exceed ASTM Class I standards.

Smoothing

Areas will be left smooth and free from irregularities and in good shape for successful seeding. Smoothing with hand tools will be done if needed. Soil will be shaped to prevent the concentrated flow of runoff, as far as possible, to protect newly graded areas from erosion. Roots, large clods or other foreign material will be removed. Inspectors will provide approval of final grading and smoothing **prior** to seeding.

Seeding

Following smoothing, the areas described above will be seeded using the following materials per 1000 square feet:

- 0.5 lbs. of Common Bermudagrass (hulled: March—July, unhulled otherwise)
- 2.0 lbs. of Tall Fescue
- 65 lbs. of Lime
- 20 lbs. of 10-10-10 Fertilizer

The seeding mix will ALSO include **one** of the following:

- 1.0 lbs. of Browntop Millet per 1000 square feet (March—August)
- 3.0 lbs. of Wheat per 1000 square feet (September—December)

Seed, lime and fertilizer must be legally tagged for sale in North Carolina and of acceptable quality.

Lime, seed, and fertilizer will be evenly spread and adequately incorporated into the soil by using appropriate equipment. Incorporation will be done by hand on channel side slopes and other sloping areas.

Mulch

Areas will be mulched with small grain straw such as wheat or oat straw. Grass-type hay will **not** be used. Straw will be spread to obtain a 75%-85% ground cover.

Netting

All sloping areas that are seeded & mulched will be secured using appropriate mulch netting. Mulch netting will be pulled tightly across the mulched area and anchored with metal staples recommended by the netting manufacturer. Anchor spacing will be in accordance with manufacturer's recommendations or as follows:

- 1) Place staples along all edges of netting at 2 foot intervals.
- 2) Place a row of staples across width of netting every 4 feet. Staples in each row will be no more than 3 feet apart.

Culvert Pipes

Unless otherwise noted, new pipes to be installed will be CAP with the following gauge specifications:

CAP with re-rolled ends
15" diameter – 16 gauge
18" diameter – 16 gauge
24" diameter - 16 gauge
30" diameter – 14 gauge
36" diameter – 12 gauge

Pipe sizes >36" diameter – pipe material and gauge to be specified by Soil and Water Office.

Other Specifications, Guidelines and Provisions

Damaged Areas

Any incidental damage caused by the contractor to travel lanes, access roads, or any other area impacted by moving equipment or materials to and from the job site will be the responsibility of the contractor and must be satisfactorily repaired prior to payment for any completed work. Such disturbed areas will be filled, graded, seeded, mulched and otherwise restored to prior condition using the General Specifications listed. Additional payment for the repair of such areas will not be considered.

Maintaining & Repair of Drainage way & Outlet Pipes

No sediment or any other material will be placed in the drainage channel that is found adjacent to the travel way. Any incidental damage caused by the contractor which occurs to drainage conveyances including ditches, subsurface drain tiles, outlet pipes, etc. will be satisfactorily replaced or repaired at the contractor's expense.

Right-Of-Way

No sediment or any other material will ever be placed outside of the established right-of-way held by the Limestone—Muddy Creek Watershed Commission.

All equipment, machinery and materials will be operated within the established right-of-way held by the Limestone—Muddy Creek Watershed Commission unless absolutely necessary and approved by the inspector.

Materials

All materials used to complete this project will be new and of adequate quality. One exception may be the reuse of existing pipes if approved by the inspector and allowed by the contract provision.

Field Staking

Start and stop work limits will be indicated by the placement of flagged stakes at the work sites.

Other

All work will be completed in a workman like manner.

The contractor, not Duplin County, is responsible to purchase and otherwise provide all equipment, materials, and labor required to complete the work items. The contractor's responsibilities include the transportation of materials to the work sites.

Payments

Payments will be made monthly for satisfactorily completed work items. Contractor will submit invoices by the 15th of each month for completed work items. No partial payments will be issued for partially completed items.

Schedule

Work will be performed only on Monday—Saturday. No inspector will be available on Saturdays. Work will commence within 30 days of contract approval by the Duplin County Board of Commissioners.

Description & Specifications for Specific Job Types

The 2 bid items for this request for proposals are categorized into six different “Job Types”:

- 1) Repair Eroded Area of Channel Side Slope
- 2) Replace/Repair Existing Culvert
- 3) Repair Erosion at Culvert Crossing
- 4) Remove Sediment/Debris from Channel
- 5) Repair Travelway/Remove Debris from Travelway
- 6) Other

Job Type # 1: Repair Eroded Area of Channel Side Slope

Description: Repair by filling eroded area with the volume of soil necessary to re-establish the channel bank to the original position and elevation. Completed side slopes will be 1:1 or flatter and compacted by thoroughly packing with backhoe bucket or similar method.

The adjacent channel bottom will have the sediment removed only to the extent needed to re-establish the original depth in the immediate vicinity of the side slope repaired.

Smooth, Seed, Mulch, and Net all disturbed areas in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

Job Type # 2: Replace/Repair Existing Culvert

Description: Remove and repair culvert pipe by installing new connector bands. If inspector determines that existing pipe is beyond repair, replace with a new pipe of equal type and size unless a different size or material is specified. Culverts will be re-installed to the same elevation as the existing tile. Soil cover will be adequately compacted with the end slopes stable. Smooth, Seed, Mulch, and Net in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

NOTE: Should it be determined by the inspector that a pipe which was planned for re-installment must be replaced; the contract will be modified to reimburse the contractor at the rate of an acceptable material cost plus 10 percent.

Job Type # 3: Repair Erosion at Culvert Crossing

Description: Replace soil cover that has been removed by erosion both over and adjacent to culvert. End slopes will be smooth and stable. Smooth, Seed, Mulch, and Net in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

Job Type # 4: Remove Sediment/Debris from Channel

Description: Any sediment removal (“dip-out”) will be done in a manner which does not disturb or impact the integrity of the channel bank(s), side-slopes, or the vegetation thereon. Any tall vegetation present on side slopes of any ditch to be dipped out must be adequately mowed prior to dip-out. Sediment removed from ditch channels will be used to fill any associated area of bank erosion as directed by the inspector. If the removed sediment is unsuitable or otherwise not used to repair areas of erosion, it will be placed and thinly spread (less than 3 inches) on the travel-way or removed by haul-off. Sediment that is removed and spread on the travel-way will be Smoothed, Seeded, and Mulched in accordance with the General Specifications. Netting is **not** required on flat areas of spread sediment. All grading/spreading will be approved by the inspector prior to seeding.

Job Type # 5: Repair Travelway/Remove Debris from Travelway

Description: Repair travelway by adding fill dirt in holes and/or washed out areas on travelway. Smooth, Seed, Mulch, and Net in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

Remove debris from the travelway and/or haul off. Repair any damage caused by debris and/or removal of the debris. Smooth, Seed, Mulch, and Net in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

Job Type # 6: Other

Description: See specific specifications listed with the item number.

NOTE: Also refer to specific notes for each bid item.

BID ITEMS:

The following 25 items are to be bid on individually and then totaled in the summary section below. The bids will be compared based on the total bid submitted for all of the 27 items.

Note: Sequence of items listed below does not indicate or infer priority.

ITEM 1

Lateral HB-4 & HB-4A

Job Type # 1, 3, 5 & 6:

WP#1, Job Type # 1 & 3: Install nonwoven geotextile fabric and riprap along the channel for 50 ft. upstream, 30 ft. downstream and 20 ft. up lateral HB4A. The riprap shall extend up the channel banks to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch according to the general specifications.

WP#2, Job Type # 1 & 6: Install new 15" X 15' CAP pipes (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications.

WP#3, Job Type # 5: Repair travelway by adding fill dirt, grade, shape to the inlet of existing pipe, seed and mulch according to the general specifications.

Bid Amount: \$_____

ITEM 2

Lateral HB-3 & HB-3A

Job Type # 1, 2, 5 & 6:

WP#4, Job Type # 1 & 6: Repair travelway bank by adding fill dirt, grade, shape, seed and mulch according to general specifications. Reconstruct the travelway field border (approx. 100' as marked by Duplin SWCD staff), graded and shaped to existing pipe, seed and mulch according to the general specifications.

WP#5, Job Type # 2: Replace pipe on travelway with 15" x 30' CAP. Grade and shape to the inlet, seed and mulch according to the general specifications.

WP#6-7, Job Type # 6: Reconstruct the offside field border (approx. 600' as marked by Duplin SWCD staff), grade and shape to existing pipes, seed and mulch according to the general specifications.

WP#8, Job Type # 2: Replace 48" x 30' CMP with 48" x 40' CAP at culvert crossing. Add fill dirt to create an island effect over the pipe (2' min. or 1' above natural ground). Install nonwoven

geotextile fabric and riprap along the channel for 20 ft. upstream and 20 ft. downstream. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#9, Job Type # 5: Repair travelway by adding fill dirt, grade, shape to the inlet of existing pipe, seed and mulch according to the general specifications.

WP#10, Job Type # 1 & 2: Replace 30" x 30' CMP with 42" x 30' CAP at culvert crossing at lateral intersection. Add fill dirt to create an island effect over the pipe (2' min. or 1' above natural ground). Install nonwoven geotextile fabric and riprap along the channel for 20 ft. upstream and downstream. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#11, Job Type # 1: Repair offside bank by adding fill dirt, grade, shape, seed and mulch according to general specifications.

WP#12, Job Type # 1 & 2: Replace pipe on offside with 15" X 15' CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

Bid Amount: \$ _____

ITEM 3

Lateral HB-1

Job Type # 1, 4 & 6:

WP#14, Job Type # 1 & 6: Install new 15" x 30' CAP (as marked by Duplin SWCD staff) and grade to pipe. Repair travelway sideslope by adding fill dirt, grade, shape, seed and mulch according to the general specifications.

WP # 15: Extend riprap by installing nonwoven geotextile fabric and riprap along the channel for 45' downstream. The riprap shall extend up the channel banks to within 1' of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#18, Job Type # 4: Remove tree from channel.

Bid Amount: \$ _____

ITEM 4

Lateral MB-1

Job Type # 5:

WP#19, Job Type # 5: Repair travelway by adding fill dirt, grade, shape, seed, and mulch. Shape to the inlet of existing pipe, seed and mulch according to the general specifications.

Bid Amount: \$ _____

ITEM 5

Lateral GB-A

Job Type #2:

WP#20, Job Type # 2: Replace 30” X 30’ CMP with 30” X 30’ CAP at culvert crossing at lateral intersection. Add fill dirt to create an island effect over the pipe (2’ min. or 1’ above natural ground). Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 6

Lateral GB-1 & GB-1A

Job Type # 1,2,4& 5:

WP#21, Job Type # 1: Repair offside bank by adding fill dirt over pipe, grade, shape, seed and mulch according to the general specifications.

WP#22, Job Type # 1: Grade and shape offside bank to install nonwoven geotextile fabric and riprap along the channel for 50 ft. in the curve. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#23, Job Type # 5: Repair travelway by installing 6” CPP (i.e. drain tile) with sock. Install animal guards as required. Adding fill dirt, grade, and shape to the inlet of existing pipe, seed and mulch according to the general specifications.

WP#24, Job Type # 2: Repair inlet to pipe under travelway.

WP#25, Job Type # 1 & 2: Replace 15” CMP with 18” x 30’ CAP under travelway. Grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 10 ft. downstream and 30 ft. upstream on travelway bank. The riprap shall extend up the channel banks to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#26, Job Type # 4: Remove tree from channel.

WP#27, Job Type # 1: Grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 30 ft. on travelway bank. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 7

Lateral LC-10A, LC-14, LC-14A, & LC-14B

Job Type # 1, 2, 3, 4, 5 & 6:

WP#28, Job Type # 2: Replace pipe on travelway with 15” x 20’ CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

WP#29, Job Type # 5: Remove tree from travelway

WP#30, Job Type # 3: Repair eroded area at culvert crossing at lateral intersection. Install nonwoven geotextile fabric and riprap along the channel for 10 ft. upstream and downstream. The riprap shall extend up the channel banks to within one foot of the top of the bank and installed in a

manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#31, Job Type # 1 & 2: Replace 15"x 30' CMP with 18" x 30' CAP under travelway. Grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 10 ft. downstream and 20 ft. upstream on travelway bank. The riprap shall extend up the channel banks to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#32, Job Type # 6: Install new 15" X 15' CAP pipe (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch the disturbed areas according to the general specifications.

WP#33, Job Type # 1: Grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 30 ft. on travelway bank in curve. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 8

Lateral LC-16

Job Type # 1 & 4:

WP#34, Job Type # 4: Remove tree from channel.

WP#35, Job Type # 4: Remove tree from channel.

WP#36, Job Type # 4: Remove tree from channel.

WP#37, Job Type # 1: Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 30 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 9

Lateral LLC-3

Job Type # 1, 4, 5 & 6:

WP#38, Job Type # 1: Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 30 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#39, Job Type # 4: Remove tree from channel.

WP#40, Job Type # 4 & 6: Remove stump from channel. Install new 15" X 30' CAP pipe under travelway (as marked by Duplin SWCD staff). Grade, shape to new pipes, seed and mulch according to the general specifications. Grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 40 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a

manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#41, Job Type # 6: Cut back and remove trees on travelway and offside bank.

WP#42, Job Type # 5: Repair travelway (Approx. 50') by adding fill dirt, grade to existing pipe, shape, seed, and mulch according to the general specifications.

WP#43, Job Type # 1: Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 40 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 10

Lateral LLC-9

Job Type # 1, 5 & 6:

WP#44, Job Type # 1 & 6: Install new 15" X 20' CAP pipe (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications. Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 50 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#45, Job Type # 5: Repair travelway by excavating an area 12' x 6" x 600' and install nonwoven geotextile fabric. Then back filled over nonwoven geotextile fabric with crush and run compacted to a depth of 0.5 ft. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$_____

ITEM 11

Lateral LLC-4

Job Type # 4, 5 & 6:

WP#46, Job Type # 4: Remove tree from channel.

WP#47, Job Type # 5 & 6: Remove existing pipes. Areas as marked by Duplin SWCD staff to be excavated no less than 12" below existing lateral bottom. Back fill with suitable fill material. To be compacted in no more than 6" lifts by mechanical tamp. Install 2 new 36" X 30' CAP pipes (as marked by Duplin SWCD staff). Grade, shape to new pipes, and seed and mulch according to the general specifications.

Bid Amount: \$_____

ITEM 12

Lateral MC-18-A-7-D & MC-23

Job Type # 1, 3, 4, 5 & 6:

WP#48, Job Type # 1, 4&6: Reconstruct the offside field border (approx. 300' as marked by Duplin SWCD staff), grade and shape to existing pipe, seed and mulch according to the general specifications. Install new 15" X 15' CAP pipes (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications. Dip out sediment downstream for 350 ft beginning at the end of the riprap and remove from site.

WP#49, Job Type # 5: Repair travelway by installing 6" CPP (i.e. drain tile) with sock. Install animal guards as required. Add fill dirt, grade, shape, seed and mulch. Shape to the inlet of existing pipe, seed and mulch according to the general specifications.

WP#50, Job Type # 3 & 4: Dip out debris. Repair travelway bank over pipe by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 15 ft. on each side of pipe and over pipe (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#51, Job Type #4: Remove limbs from offside and channel.

WP#52, Job Type #4: Remove debris from channel.

WP#53, Job Type #4: Remove tree from travelway and channel.

Bid Amount: \$_____

ITEM 13

Lateral MC-18-A-9

Job Type # 4:

WP#54, Job Type #4: Dip out sediment to upper end of lateral (Approx. 900') and remove sediment from site.

WP#55, Job Type #4: Remove debris from inlet pipe.

Bid Amount: \$_____

ITEM 14

Lateral MC-19-A-1 & MC-20

Job Type # 1, 4, 5 & 6:

WP#56, Job Type #6: Install new 15" X 30' CAP pipe (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications.

WP#57, Job Type # 1 & 6: Install new 15" X 15' CAP pipe on offside (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications. Repair offside bank by adding fill dirt, grade and shape offside bank to install nonwoven geotextile fabric and riprap along the channel for 10 ft. upstream and 30 ft. downstream (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#58, Job Type #4: Remove tree from channel.

WP#59, Job Type # 5: Repair travelway by installing 6” CPP (i.e. drain tile) with sock. Install animal guards as required. Add fill dirt, grade, shape, seed and mulch. Shape to the inlet of existing pipe, seed and mulch according to the general specifications.

Bid Amount: \$_____

ITEM 15

Lateral MC-6, MC-8 & MC-8-B

Job Type # 1 & 4:

WP#60, Job Type #1: Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 40 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#61-62, Job Type #1 & 4: Dip out sediment to widen out bottom. Repair travelway bank by sloping bank back to a 1.5:1 slope (Approx. 200’). Grade, shape, seed and mulch according to the general specifications.

WP#66, Job Type #4: Remove tree from channel.

Bid Amount: \$_____

ITEM 16

Lateral MC-8

Job Type # 1, 4 & 6:

WP#63, Job Type #1 & 4: Dip out sediment and repair travelway bank by adding fill dirt, grade and shape travelway bank for 100 ft. (as marked by Duplin SWCD staff).

WP#64, Job Type #6: Install new 15” X 30’ CAP pipe (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications.

WP#65, Job Type #4: Dip out sediment to rock structure (Approx. 100’) and remove sediment from site.

Bid Amount: \$_____

ITEM 17

Lateral MC-11, MC-11-A & MC-11-D

Job Type # 1, 2, 3, 4& 6:

WP#67, Job Type #3 & 4: Remove tree from channel. Repair travelway bank by adding fill dirt over pipe, grade, shape, seed and mulch according to general specifications

WP#68, Job Type #4: Remove tree from channel.

WP#69, Job Type # 1 & 6: Install new 15” X 40’ CAP pipe at corner of field (as marked by Duplin SWCD staff). Grade, shape to new pipe, seed and mulch according to the general specifications.

Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 30 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#70, Job Type # 2 & 6: Replace 15" x 20' CAP on offside with 18" x 20' CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

WP#71, Job Type #3: Repair offside bank by adding fill dirt over pipe, grade, shape, seed and mulch according to general specifications

WP#72, Job Type #6: Repair offside field border by adding fill dirt, grade, shape, seed and mulch according to general specifications

WP#73, Job Type #2: Repair offside 15" CMP pipe by clean out inlet to pipe. Add fill dirt over pipe, grade, shape to the inlet, seed and mulch according to the general specifications.

Bid Amount: \$_____

ITEM 18

Lateral MC-15-A, MC-17 & MC-18-B

Job Type # 2, 3 & 4:

WP#74, Job Type #4: Remove tree from channel.

WP#75, Job Type #2 & 3: Reinstall existing pipe on offside. Add fill dirt over pipe, grade, shape to the inlet, seed and mulch according to the general specifications.

WP#76, Job Type #4: Remove tree from channel. Dip out sediment and debris to the road (Approx. 1000') and remove sediment from site.

Bid Amount: \$_____

ITEM 19

Lateral MC-18-K-1

Job Type # 4 & 6:

WP#77, Job Type #6: Install new 15" X 10' CAP pipe (as marked by Duplin SWCD staff). Add fill dirt, grade, shape to new pipe, seed and mulch according to the general specifications.

WP#78, Job Type #4: Remove tree from channel.

Bid Amount: \$_____

ITEM 20

Lateral MC-18-G-1, MC-18-G-2-A & MC-18-G-5

Job Type # 1, 2, 3 & 4:

WP#79, Job Type #1 & 3: Repair riprap at travelway pipe. Add fill dirt and riprap, grade, shape, seed and mulch according to the general specifications.

WP#80, Job Type #2: Replace 15” x 20’ CAP on offside with 15” x 30’ CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.
WP#81&82, Job Type #4: Remove tree from channel.

Bid Amount: \$_____

ITEM 21

Lateral MC-12-D & MC-12-E

Job Type # 2, 3, 4 & 6:

WP#83, Job Type #2: Replace 15” x 30’ CMP on travelway with 15” x 30’ CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

WP#84, Job Type #3 & 4: Repair eroded area at culvert crossing at lateral intersection and add fill dirt to inlet side of pipe. Install nonwoven geotextile fabric and riprap along the channel for 10 ft. upstream. The riprap shall extend up the channel bank to within one foot of the top of the bank and installed in a manner to not impede the flow of water. Grade, shape, seed and mulch according to the general specifications. Dip out sediment and debris to upper end of lateral (Approx. 3000’) and remove sediment from site.

WP#85, Job Type #2 & 6: Replace pipe on travelway with 15” x 30’ CAP. Grade and shape to the inlet, install nonwoven geotextile fabric and riprap at inlet, seed and mulch according to the general specifications.

WP#86, Job Type #2 & 4: Repair outlet end of travelway pipe. Add fill dirt, grade, shape, seed and mulch according to the general specifications. Remove debris from channel.

WP#87, Job Type #4: Remove tree from channel and travelway.

Bid Amount: \$_____

ITEM 22

Lateral MC-12-B

Job Type # 1, 2, 4 & 5:

WP#88, Job Type #2: Replace 15” x 30’ CMP on travelway with 15” x 30’ CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

WP#89, Job Type #4: Remove tree and debris from channel.

WP#90, Job Type #5: Repair travelway by adding fill dirt, grade, shape, seed, and mulch. Shape to the inlet of existing pipe, seed and mulch according to the general specifications.

WP#91, Job Type #1: Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 50 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

WP#92, Job Type #4: Remove tree from channel.

Bid Amount: \$_____

ITEM 23

Lateral MC-10 & MC-10-B

Job Type # 1 & 5:

WP#93, Job Type #1: Repair erosion on offside by adding fill dirt, grade, shape, seed, and mulch according to the general specifications.

WP#94, Job Type #5: Repair travelway by adding fill dirt, grade, shape, seed, and mulch. Shape to the inlet of existing pipe, seed and mulch according to the general specifications.

Bid Amount: \$ _____

ITEM 24

Lateral MC-7, MC-7-B & MC-7-C

Job Type # 1, 5 & 6:

WP#200, Job Type #1: Dig out animal hole on offside bank and add fill dirt, grade, shape, seed, and mulch according to the general specifications.

WP#95, Job Type #6: Add fill dirt, grade and shape to inlet of pipe, seed, and mulch according to the general specifications.

WP#96-97, Job Type #6: Reconstruct the offside field border (approx. 600' as marked by Duplin SWCD staff), grade and shape to existing pipes, seed and mulch according to the general specifications.

WP#98, Job Type #1 & 5: Repair travelway by adding fill dirt, grade, and shape to the inlet of existing pipe. Repair travelway bank by adding fill dirt, grade and shape travelway bank to install nonwoven geotextile fabric and riprap along the channel for 50 ft. (as marked by Duplin SWCD staff). The riprap shall extend up the channel bank to within one foot of the top of the bank. The riprap in the channel bottom shall be installed in a manner to not impede the flow of water. Grade, shape, seed and mulch the disturbed areas according to the general specifications.

Bid Amount: \$ _____

ITEM 25

Lateral MC-7-A & MC-5

Job Type # 2, 4 & 5:

WP#99, Job Type #4: Remove trees and debris from channel.

WP#100, Job Type # 4: Remove tree from channel.

WP#101, Job Type # 4: Remove tree from channel.

WP#102, Job Type # 4: Remove trees and debris from channel.

WP#103, Job Type # 4: Remove tree from channel.

WP#104, Job Type # 4: Dip out sediment and debris up to crossing (Approx. 400') and remove sediment from site.

WP#105, Job Type # 2: Replace 30" x 30' CMP on travelway with 36" x 30' CAP. Add fill dirt, grade, and shape to the inlet. Seed and mulch according to the general specifications.

WP#106, Job Type # 4: Dip out debris and remove logs from channel.

WP#107, Job Type # 5: Repair travelway (Approx. 60') by installing 6" CPP (i.e. drain tile) with sock. Install animal guards as required. Add fill dirt, grade, and shape to the inlet of existing pipe, seed and mulch according to the general specifications.

Bid Amount: \$ _____

TOTAL BID AMOUNT: \$ _____ (Sum of 25 Items)

NOTE: Specifications are subject to change until group site showing on April 13, 2010 at 9:00 A.M.

PROPOSAL SUBMITTED BY:

(Company Name)

Name (Signature)

Name (Printed)

Address

Telephone Number

Tax ID or Social Security Number