

NOTICE

**REQUEST FOR PROPOSALS
FOR
MAINTENANCE REPAIRS
On
Laterals and Drainage ways
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 Drainage ways within the Limestone Creek and Muddy Creek Watershed Project areas in Duplin County, North Carolina.

A **group site showing** is scheduled for **Thursday, April 18, 2019**. 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 (Inspectors) prior to beginning work. **Work shall be completed by September 30, 2019**, 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 Tuesday, April 30, 2019, 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) with Duplin County as additional insured*. ***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 employees that may be used on the job (this list will be the only time to name any employees; 4) a list of references; 5) a detailed list of the equipment that the employees will be using on the job; 6) a letter of intent from your performance bond company; 7) W-9 Form; 8) E-verify Form; and 9) Certificate of Past Due Taxes; 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 County specifically reserves the right 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 given at the **group site showing**. 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 30, 2019**.

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 ext. 3, 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 (Granite) 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 travel way 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.

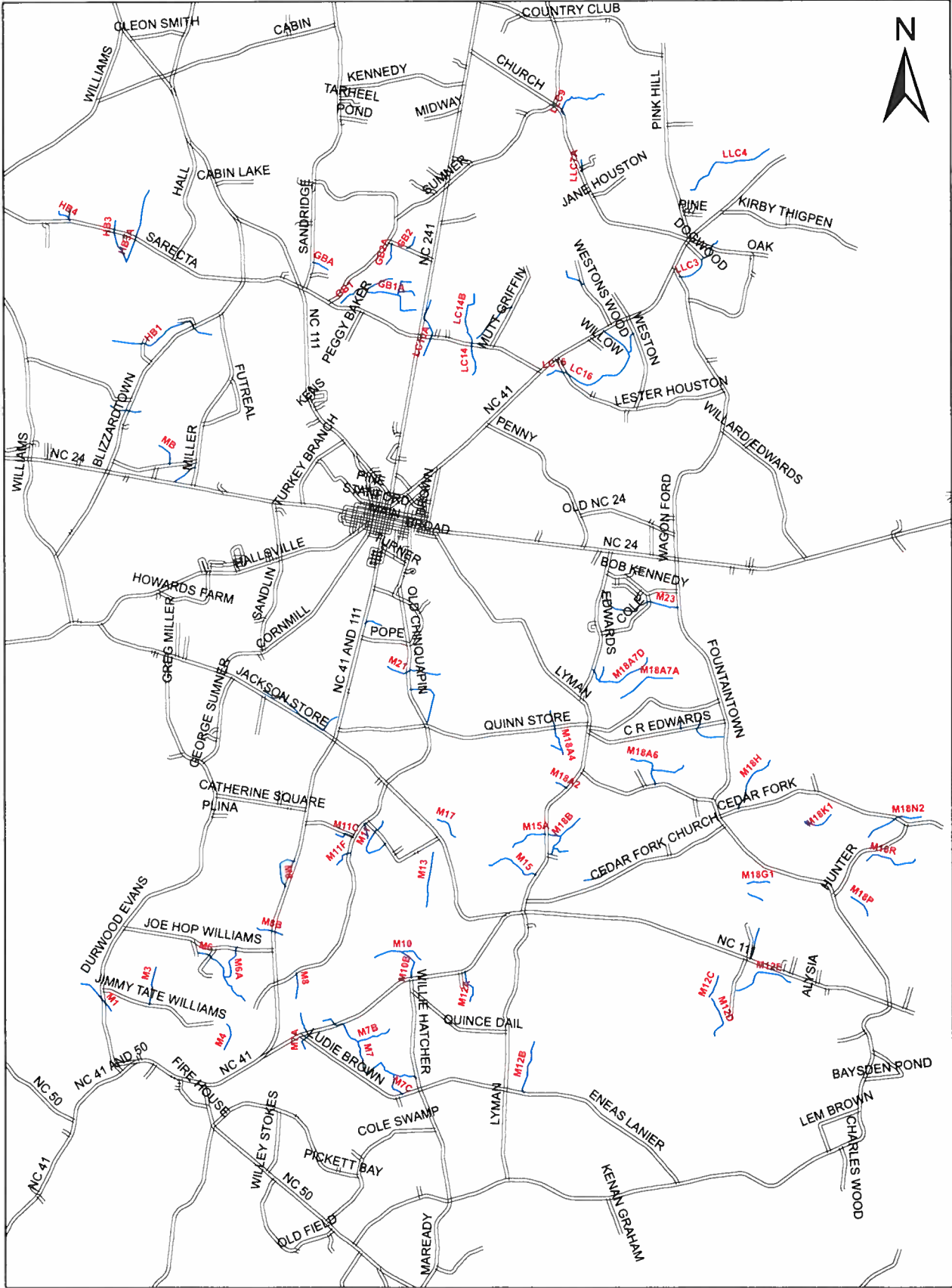
Remove debris from the travelway and/or haul off. Repair any damage caused by debris and/or removal of the debris. Smooth, Seed, Mulch, and Net in accordance with General Specifications. All grading will be approved by the inspector prior to seeding.

Job Type # 6: Other

Description: See specific specifications listed with the item number.

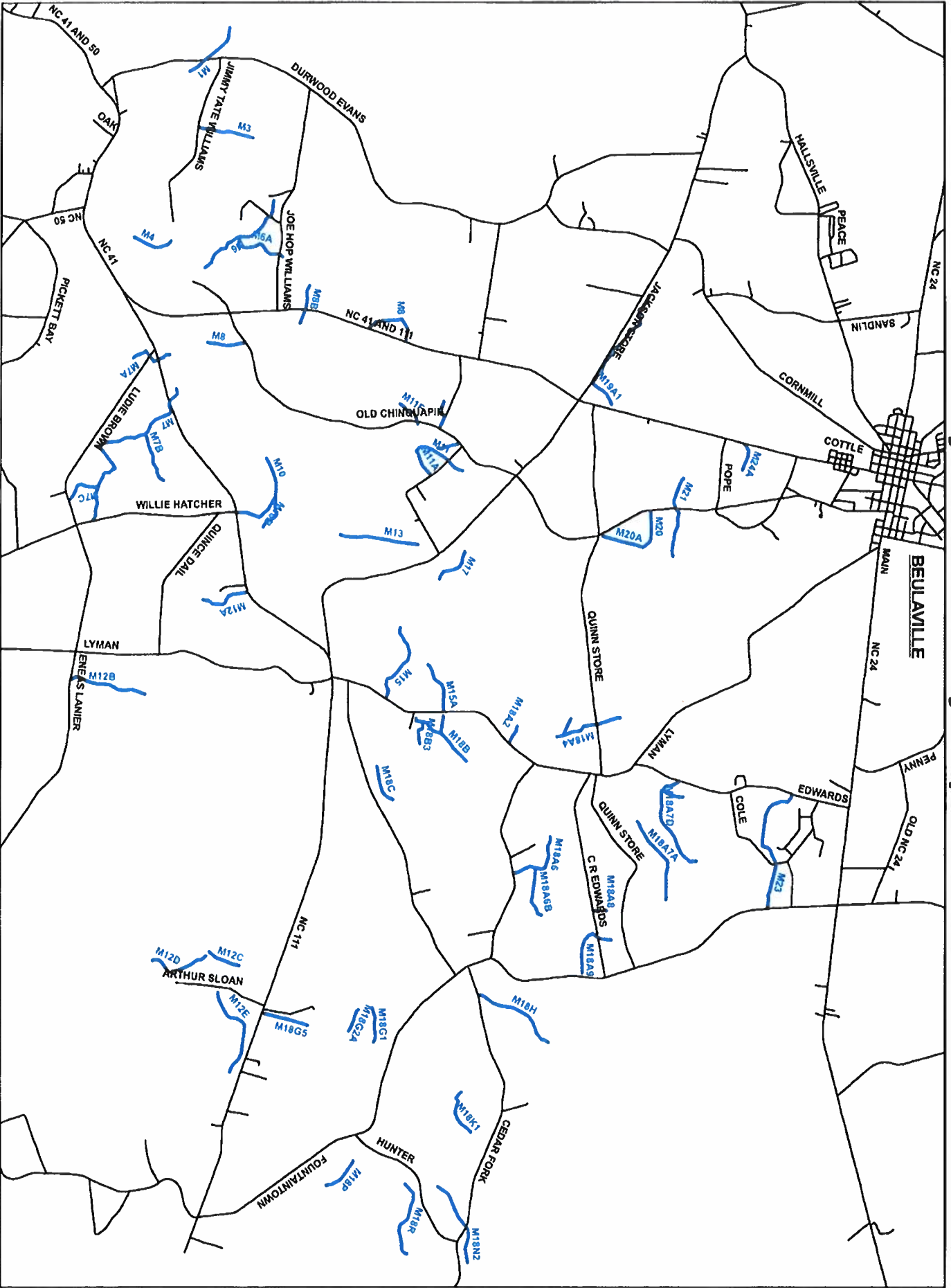
NOTE: Also refer to specific notes for each bid item.

Limestone Muddy Creek laterals



1 inch = 5,583 feet

Muddy Creek Vicinity Map



LIMESTONE CREEK & MUDDY CREEK WATERSHED

Maintenance Report

Conducted by:

Billy W. Ivey and Matthew Carter

2019

Limestone Creek & Muddy Creek Watershed 2019

Limestone Creek Watershed

MB	OK	
MB -1	OK	
GB-A	OK	
GB-1	OK	
GB-1-A	OK	
GB-1-A-1	OK	
GB-1-A-1-A	OK	
GB-2	OK	
GB-2-A	OK	
HB-1	WP-10, Rip Wrap, Dirt fill, Shape and Rock	_____ Bid
HB-3	OK	
HB-3-A	WP-1 , (1) 15" X 20' aluminum pipe , rock inlet / field side , seed & mulch. WP-2 Dip sediment 150'. WP-3 Rock & rip rap	_____ Bid
HB-4	OK	
HB-4-A	OK	
LC-10	OK	
LC-14	OK	
LC-14-A	OK	

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LC-14-B	WP-4 ,(1) pipe 30 “ X 20’ Re shape & grade , rip wrap & rock , seed & mulch	Bid
LC-16	OK	
LC-16-A	OK	
LLC-3	WP-5 Find end of pipe on inlet add (1) 15” x 20’ aluminum pipe , WP-6 Replace pipe with (2) 15” x 20’ aluminum pipes and change to a 45 degree angle and offside rip rap & rock , WP-7 Cut outlet end of pipe off & dig out inlet end & outlet end remove sediment & shape, WP-8 dig out inlet end and remove sediment, WP-21 inlet and outlet ends remove rock blockages & shape seed mulch, WP-22 remove debris in later & dirt fill rock rip rap shape seed & mulch	Bid
LLC-4	OK	
LLC-5	OK	
LLC-7-A	OK	
LLC-9	WP-9, Dirt fill, shape, grade, seed & mulch	Bid
Cabin Lake	OK	
TOTAL FOR LIMESTONE MAINTENANCE _____		

Muddy Creek Watershed

MC-1	OK
MC-3	OK
MC-4	OK
MC-6	OK
MC-6-A	OK

LIMESTONE CREEK & MUDDY CREEK WATERSHED

Maintenance Report

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2019

MC-7	WP-25 Dip out sediment in lateral to open water flow, place spoil on travel way bank to reshape , seed , mulch	_____ Bid
MC-7-A	OK	
MC-7-B	OK	
MC-7-C	OK	
MC-8 lower	OK	
MC-8 upper	OK	
MC-8-B	WP-19, Dirt fill , shape , seed & mulch	_____ Bid
MC-10	OK	
MC-10-B	OK	
MC-11	OK	
MC-11-A	NOTE: NC Gas Line runs under lateral	
	OK	
MC-11-C	OK	
MC-11-D	OK	
MC-11-F	OK	
MC-12-A	OK	
MC-12-B	WP-24 Dip out sediment in lateral for 25'	_____ Bid
MC-12-C	Level dirt on travel way , grade & shape	_____ Bid
MC-12-D	WP-15 , Dip out sediment length of 75'	
	WP-16 , Dip out sediment length of 750'	_____ Bid
MC-12-E	OK	

LIMESTONE CREEK & MUDDY CREEK WATERSHED

Maintenance Report

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MC-13	NOTE: NC Gas Line runs under lateral
	OK
MC-15	WP-20 , Dirt fill on offside where tile drain's & rip wrap & rock
	WP-14 , Dirt fill , seed , mulch , rip wrap, rock _____ Bid
MC-15-A	OK
MC-17	OK
MC-18-A-2	OK
MC-18-A-4	WP-11 , Dip out sediment length of 280' _____ Bid
MC-18-A-4-A	OK
MC-18-A-6	WP-17, Dirt fill , shape, seed & mulch , WP-18 Dirt fill, shape,seed & mulch 30' _____ Bid
MC-18-A-6-B	OK
MC-18-A-7-A	OK
MC-18-A-7-B	OK
MC-18-A-7-C	OK
MC-18-A-7-D	WP-12, Dirt fill, ripwrap, rock seed & mulch outlet side _____ Bid
MC-18-A-8	OK
MC-18-A-9	OK
MC-18-B	OK
MC-18-B-2	OK
MC-18-B-3	OK
MC-18-C	OK

LIMESTONE CREEK & MUDDY CREEK WATERSHED

Maintenance Report

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MC-18-G-1	OK
MC-18-G-2-A	OK
MC-18-G-5	OK
MC-18-H	OK
MC-18-K-1	OK
MC-18-N-2	WP-23 Dirt fill shape bank for 40', rip rap, rock, seed, mulch _____ BID
MC-18-P	OK
MC-18-R	OK
MC-19-A-1	OK
MC-20	OK
MC-20-A	OK
MC-21	OK
MC-23	OK
MC-24-A	OK
TOTAL MUDDY CREEK MAINTENANCE _____	

Limestone Creek and Muddy Creek Watershed Projects

LIMESTONE CREEK TOTAL _ \$ _____

MUDDY CREEK TOTAL _____ \$ _____

GRAND TOTAL _____ \$ _____