
Addendum No. 2

Date: *April 24, 2023*

Solicitation Number: *FY23-ITBCON-28*

Title: *On-Call Stream Restoration and Sanitary Sewer Repair*

Bidders should acknowledge receipt of this addendum on the Bid Form. Failure to acknowledge receipt of this addendum may result in the bid not being considered.

All Bidders are responsible for monitoring CLTWater's Contracting Opportunities website (<https://charlottenc.gov/Water/Projects/Pages/Opportunities.aspx>) for additional changes or clarifications.

Questions and Responses - ATTACHED

----- END OF ADDENDUM NO. 2 -----

The below listed attachments follow:

- **Notice to Bidders**
- **Modifications to the Technical Specifications and Modifications to the Bid Form**
- **Bid Tab (PDF)**
- **Bid Tab (Electronic-separate attachment)**



Notice to Bidders

April 21, 2023

ON-CALL STREAM RESTORATION AND SANITARY SEWER REPAIR

BID DATE: April 27, 2023, 2:00 PM

This notice to bidders is being used to clarify certain issues that have been raised during the bidding process. The questions and responses are not in a specific order. The bidding documents are NOT being modified in any way as a result of this notice.

The deadline for questions was April 20, 2023.

Response to Questions:

1. Section 5.02-Variable Constructed Riffle: Depths of both constructed and rock & roll riffles are not specified. Requesting that the unit of measure be changed from SY to CY for both constructed and rock & roll riffles or the depth specified.

Response: The variable constructed riffle and rock and roll riffle should have a typical depth of 12". Therefore, the unit of measure should still be SY just with 12" of depth.

2. Links to specs are "broken" in the spec book. Please provide valid links.

Response: Charlotte Water's website has been updated. The new link is:
<https://www.charlottenc.gov/water/DevelopmentProjects/Design-Manual>

This has been addressed in the addendum.

3. Requesting that the project stakeout line item be paid hourly vs by the acre.

Response: The project stakeout should be done per acre to provide the most consistent fee across all projects/workers.

4. Line items for traffic control are incidental to grading. Requesting that stand-alone traffic control items be added to the bid tab:
 - a. Lane Closures, paid by daily rate
 - b. Flagging Operations, paid by hourly rate

Response: Traffic control is incidental to grading as noted in Technical Specifications page 27: "If a site requires a lane closure or more complex traffic control than that for a construction entrance, then that traffic control for a lane closure or similar will be negotiated as an additional service for that work order."

5. If plantings are required for a project task outside of dormant season, requesting a mobilization fee be paid for returning to plant during the dormant season.

Response: A separate mobilization fee will not be paid for returning for plantings.

6. Requesting that a stand-alone line be added to the bid tab for disposal, paid by the ton, of non-LCID (appliances, tires, trash, etc) materials that may be encountered.

Response: Additional standalone items for disposal for non-LCID can be considered with project progression. In the past these projects, have not included any or much of disposal as specified.

7. Requesting that line items and quantities be added for the following items:
- a. Removal and Replacement of Asphalt - 50 Tons (It appears that pavement repairs are mentioned a few times in the description for Line Item 2.01 Mobilization - Work Order. It's a little confusing, so perhaps a separate item for asphalt would be sensible.)
 - b. Select Backfill - 100 Tons
 - c. ABC Stone - 100 Tons

Response: This comment has been addressed in an addendum and the three line items have been added.

8. Page 70 of the technical specs state Live Stakes and Live Cuttings shall consist of the species as indicated on **Sheet 5 of 8 of the construction plans** in the “Woody Vegetation – Live Staking” planting table. Is there construction plans for the project? Can a planting schedule be provided?

Response: There are no construction plans released for this project. An addendum removes this comment. The planting schedule will be provided with each individual construction drawings.

9. Invitation to Bidders: Article 5-5.01 B, D,E,F,G,H,J: How are these conditions applicable to these bid documents? Are these sections waived for this bid?

**Response: These sections are not applicable for this bid
These items are removed by the addendum**

10. Section 18.09 SC: Contract time is 730 days with 3 options for Renewal

- a. Is this contract time based or Money Based?

Response: The contract will be run either max money or max time based whichever runs out first.

- b. Will the owner allow Bond premium riders in lieu of new sets of Bonds for all renewals/amendments?

Response: No we will not allow Bond premium riders in lieu of new bonds. The contractor will need to provide a new set of Payment and Performance bonds for the full amount of the Renewal.

- c. Will the owner consider price index increases on an annual basis or sooner possibly with inflation so volatile?

Response: Based on the bidding documents, renewal price increases will be based on section 18.09C.

11. Article 10-10.01: How are LD's assessed? There were no milestones listed in the Agreement.

Response: There are no liquidated damages identified for this project.

12. Article 11:

- a. We would like to request that C-900 be allowed as a substitute for DIP specifically with regards to 20" and 42" pipe. Availability of small quantities in certain sizes will make material allocation problematic.

Response: Should there be an issue about on material lead time or allocation, substitutions will be evaluated on a case by case basis.

- b. We would like to request .33 wall pipe on aerial steel pipes to be allowed in addition to .25 wall pipe.

Response: Per the special provision, the aerial steel pipes should have a minimum thickness of 0.25" therefore 0.33" wall pipe is allowed as long as it abides to Charlotte Water Standards. Provide a single unit price.

13. Article 12.01: Are any specific Subcontractors required on this project?

Response: No, subcontractors are not required on this project.

14. Article 12.02-03: These sections seem to contradict one another. Please clarify the meaning of this. How can a Low bidder object to a subcontractor and be allowed to not use said entity and then be not awarded the contract due to failure in agreeing to requested substitutions?

Response: No specific subcontractors are required on this project.

15. Charlotte Business Inclusion:

- a. Are tier two subs participation considered as CBI Participation?

Response: Charlotte Water will verify in a separate response

- b. Percentages are based off total expenditure. Will LDs be assessed particularly Sec "I" (a) if certain scopes of work are not needed in an unspecified project like this, which may have more CBI committed participation than another scope of work that is utilized?

Response: Charlotte Water will verify in a separate response

- i. Section two accounts for a large amount of the bid tab and total dollars of this project, but these scopes may not be utilized in situations where stream banks are not eroding a sewer or critical asset.

Response: Charlotte Water will verify in a separate response

16. Bid Tab 8.01: Does this price include the cost of the tee, or are we to always use saddles to connect services to a new main sewer? Can this be altered to include all pipe sizes if tees are required?

Response: Per Charlotte Water standards, saddles should be used to connect services. The cost to connect to the line with the pipe saddle should be included in the unit price.

17. Bid Tab 8.02:

- a. Are these items always going to be from MH to MH? If not can a price for a base footage be included 6 or 12 feet for a point repair?

Response: The cost should be based on MH to MH and this is how the projects are expected to be designed.

- b. The adder under (A-J) - 2) This line item says “costs for each VF over 6feet” but then states “depths 6.1 to 15 feet”. Please clarify?

Response: For clarification on the adder for the additional vertical feet please see the example as follows:

Assume Bid items were

8.01 A.1 8" DIP SEWER (CLASS 350)	\$100/LF
8.01 A.2 ADD ON COSTS FOR EACH VERTICAL FOOT...	\$5/LF

For an 8” pipe that is 100 linear feet long at 8 feet deep, it will be billed as:

- 1) 100 LF – standard unit price of \$100**
- 2) Add on for each vertical – vertical feet unit price of \$5**

Total: \$11000

- 1) 100 linear feet x \$100 = \$10000**
- 2) 2 vertical feet (8-6 deep) x 100 linear feet x \$5 = \$1000**
The effective unit rate for pipe 8 feet deep is \$110/LF (100+2*5)

- c. Section (L) does this CCTV need to be in IT Pipes?

Response: CCTV should abide to Charlotte Water design standards.

- d. Can any required Anti seep collars have a pay item description added and a unit price provided?

Response: Anti seep collar should be incidental to the bid price.

18. Bid Tab 8.03:

- a. Will these sewers use the CW standard details or the CW sewer rehab details for creek crossings?

Response: These sewers will use the Charlotte Water standard details from Chapter 15 -Sanitary Sewer Main Specs and Standards dated July 27, 1995 found here:

<https://www.charlottenc.gov/files/assets/water/documents/developmentprojects/design-manual/chapter-15-sanitary-sewer-main-specs-and-standards.pdf>

19. Bid Tab 8.04:

- a. Will these sewers use the CW standard details or the CW sewer rehab details for creek crossings?

Response: These sewers will use the Charlotte Water standard details from Chapter 15 -Sanitary Sewer Main Specs and Standards dated July 27, 1995 found here:

<https://www.charlottenc.gov/files/assets/water/documents/developmentprojects/design-manual/chapter-15-sanitary-sewer-main-specs-and-standards.pdf>

- b. It appears that there is some missing information regarding the driving of piles under piers between the end of text on pg 87 and the beginning of test in para #1 pg 88. Can you provide the missing information or better explain this scope of work and how it will be paid for?

This will be updated per the addendum as this should be installed as Charlotte Water standards .

<https://www.charlottenc.gov/files/assets/water/documents/developmentprojects/design-manual/chapter-15-sanitary-sewer-main-specs-and-standards.pdf>

20. Bid Tab 8.06:

a. Abandonment of sewer in place:

- i. Is this line item to fill sewers with Flowable fill? If so, there is no pipe size listed. What are the pipe size ranges?

Response: “Abandon Sewer Pipe in Place” will be billed per unit cubic feet of fill instead of linear feet.

This is addressed in the addendum.

b. Removal of sewer in place:

- i. Is this complete removal of the structure, or abandon in place?
ii. The Method of Payment is per LF, but there is no specific size of pipe listed. What is the pipe size that should be used for this pay item?

Response: This comment has been addressed in an addendum.

c. Removal of Sewer Manhole:

- i. The Method of Payment is per EA, but there is no specific Diameter for said manhole listed. What is the Manhole Diameter that should be used for this pay item?

Response: “Removal of Sewer Manhole” will be billed per unit tonnage instead of linear feet. This comment has been addressed in an addendum.

21. Bid Tab 9.01: Does the contractor include Labor burden ie GL, WC, and benefits to the unit price, or is that to be added during the CO/TM process?

Response: These should be included in the unit price instead of added to the CO/TM.

22. Bid Tab 9.02: Can you better define class 2,3,7 and 8 vehicles?

Response: Class 2,3,7, and 8 vehicles are specific for the type of the equipment listed. This is the general class for the equipment, but an equivalent machinery can

also be considered. General guidance on vehicle sizes can be found:
<https://afdc.energy.gov/data/10380>

23. Bid Tab 9.03:

- a. Can the machine be specified in weight classes?

Response: The machinery is listed based on the standards of equipment.

- b. Does the machinery come with or without the operator?

Response: The machinery unit cost should include the operator.

24. So do you want us to include a 2 pump bypass system (primary and backup) for up to 1 MGD and then up to 2 MGD, float switch, check valves, wye etc. Basically everything you need to make a redundant bypass system?

Response: This has been addressed in the addendum to include the bypass system instead of bypass pump.

25. I was confused about the price per foot of hard piping, do you want us to quote a total price of 200' for 6" and 8" or a price per foot of 6" and 8". Quoting per foot is really tough because I have to include the rental price of the pipe, labor for set up and tear down of the pipe, fusion machine for the pipe, machine to assist with set up and tear down.

Response: This has been addressed in the addendum to include up to 300 linear feet of piping in the bypass system and additional linear feet was added as a separate item.

26. Page 70 of the technical specs state Live Stakes and Live Cuttings shall consist of the species as indicated on Sheet 5 of 8 of the construction plans in the "Woody Vegetation – Live Staking" planting table. Is there construction plans for the project? Can a planting schedule be provided?

Response: This has been addressed in the addendum and is addressed in question 8.

27. Herbaceous Plugs: The planting Contractor is to provide the quality, size, source, species and variety of plantings indicated in the Construction Drawings, complying with applicable requirements of ANSI Z60.1 "American Standard for Nursery Stock". The delivered herbaceous plugs are to be freshly dug.

- a. *Plugs are grown in containers, which is what makes them plugs. If they are freshly dug, they are bare roots. Do you want plugs or bare roots? Plugs are better because they typically do not bring invasives in with them.*

Response: Plugs are what is wanted for this project. An addendum has been added to address this comment and remove the freshly dug portion.

- b. Protective covering is to be provided during delivery, and care is to be taken not to herbaceous plugs. *I don't know what is trying to be said here. Is it important?*

Response: The addendum updates this section to state that the herbaceous plugs will be protected during transport.

- c. Herbaceous plugs must have a minimum root collar diameter (RCD) of 1-2 inches or as indicated in the Construction Drawings. *Are we talking trees or plugs? Do you mean the pots the plugs are grown in should be 2-inch pots or 2-inch cells in trays? Please clarify.*

Response: The 1-2 inch diameter plugs will be measured at the root collar. This dimension will be the actual plug and not the container or tray.



Matthew Shoesmith, P.E.
Kimley-Horn and Associates, Inc.



ADDENDUM No. 2

April 21, 2023

ON-CALL STREAM RESTORATION AND SANITARY SEWER REPAIR

BID DATE: April 27, 2023, 2:00 PM

Proposers should acknowledge receipt of this addendum on Form 1. Failure to acknowledge receipt of this addendum may result in the proposal not being considered.

All Proposers are responsible for monitoring CLTWater's Contracting Opportunities website (<https://charlottenc.gov/Water/Projects/Pages/Opportunities.aspx>) for additional changes or clarifications.

MODIFICATIONS TO THE TECHNICAL SPECIFICATIONS

Section One: Common Items

Entire Document

Delete all references to:

<https://charlottenc.gov/Water/Development/Resources/Pages/DesignManual.aspx>

Replace with:

<https://www.charlottenc.gov/water/DevelopmentProjects/Design-Manual>

Instructions to Bidders

Article 5, Section 5.01, page 4 of 11

Delete Items B,D,E,F,G,H,J and re-letter remaining sections.

Updates to 2.01 – Mobilization – Work Order

Delete the following section for the items shall include:

“For permanent pavement repairs when such repairs are not included in the roadway improvements.”

Add Section 2.06 – Removal and Replacement of Asphalt

The section should read as follows:

2.06 Removal/Replacement of Asphalt

Scope of Work and Description:

The work covered by this section includes all labor, equipment, and materials required completing all work associated with removal/replacement of existing asphalt as specified on the plans or as directed by the Engineer.

Materials:

The material will match NCDOT standard specifications in Division 6 Asphalt Pavements. Should the asphalt be replaced it should match the existing condition. The Contractor will inspect the asphalt as it is replaced and restored to original specifications.

Construction:

Construction methods for asphalt including the use of select backfill and ABC stone shall be in accordance with Division 6 "ASPHALT PAVEMENTS" of the NCDOT Standard Specifications and the manufacturers’ recommendations.

Work covered by this special provision consists of work described in section Division 6 "ASPHALT PAVEMENTS" of the NCDOT Standard Specifications and section 250 "REMOVAL OF EXISTING PAVEMENT" for asphalt removal.

Measurement and Payment:

The quantity of Removal and Replacement of Asphalt , select backfill, and ABC stone will be the actual number of tons brought on the site for the replacement. wood fence to be removed/replaced will be the actual number of linear feet of measured from center of post to center of post, which has been completed and accepted. The quantity of gates to be measured will be per each gate which has been completed and accepted. There will be no separate measurement for incidentals as noted in NCDOT standard sections Division 6.

The quantity of asphalt, select backfill, and ABC stone will be paid under “REMOVE/REPLACE ASPHALT,” “SELECT BACKFILL,” and “ABC STONE” respectively.

The above prices and payments will be full compensation for all materials, labor, equipment, and incidentals necessary for removal/replacement of asphalt.

Payment will be made under:

2.06 A REMOVE/REPLACE ASPHALT	TON
2.06 B SELECT BACKFILL.....	TON
2.06 C ABC STONE.....	TON

Update Section 2.06 – Traffic Control to Section 2.07

Updates to Section 7.05 – Live Stakes

Delete second paragraph under Material that says “Live Stakes and Live Cuttings shall consist of the species as indicated on Sheet 5 of 8 of the construction plans in the “Woody Vegetation – Live Staking” planting table.”

Replace with “ Live Stakes and Live Cuttings shall consist of the species as indicated on the future construction plans or as directed by the Engineer.”

Updates to Section 7.07 – Herbaceous Plugs

Replace the material section of “The delivered herbaceous plugs are to be freshly dug. Care is to be taken to protect foliage and root systems from sun scald, drying, sweating, whipping, and other handling and typing damage. The plantings are not to be bent or bind-tied in such a manner as to destroy their natural shape. Protective covering is to be provided during delivery, and care is to be taken not to herbaceous plugs.” with the following:

“The delivered herbaceous plugs are to be fresh. Care is to be taken to protect foliage and root systems from sun scald, drying, sweating, whipping, and other handling and typing damage. The plantings are not to be bent or bind-tied in such a manner as to destroy their natural shape. Protective covering is to be provided during delivery, and care is to be taken not to damage herbaceous plugs.”

Replace Measurement and Payment section with the following:

“The quantity of herbaceous plugs, measured as provided above, will be paid for on a contract unit price of “HERBACEOUS PLUGS.” Such payment shall be full compensation for all work covered in this special provision, including, but not limited to, furnishing, preparing site, planting and related work.”

Section Two: Sewer

Updates to 8.02 DIP Sanitary Sewer Pipe

Under Measurement and Payment, the linear feet of pipe will be broken down to only two instead of four options. They are now as follows:

0 to 6 Feet Deep

6.1 to 15 Feet Deep

Updates to 8.04 Reinforced Concrete Piers

Delete the following section:

“If the required penetration specified on the plans is not obtained, the Contractor will not attempt to drive a second pile at such pier location unless the Engineer has determined that the first pile will be used. A pile which will not be incorporated in the completed structure will be removed or cut off so that the top of the pile is below the concrete footing.”

Updates to 8.06 Removal of Existing Utilities

Delete “The Method of Measurement Section” and Replace with:

“ The quantity of flowable fill and cement grout used for plugging of abandoned pipe, will be measured for the payment at the contract unit price per cubic yard used to fill the abandoned sewer pipe.

The quantity of manholes and pipes removed, as required and accepted, will be measured for payment at the contract unit price per tonnage removed of Sewer Pipe and per each Sewer Manhole.”

Delete “ The Basis of Payment” Section and replace with:

The quantity of flowable fill and cement grout, measured as provided above, will be paid for at the contract unit price per cubic yard of “ABANDON SEWER PIPE IN PLACE.”

The quantity of removed sewer pipe and sewer manholes, measured as provided above, will be paid for at the contract unit price per tonnage of “REMOVAL OF SEWER PIPE” and per each “REMOVAL OF SEWER MANHOLE” removed. The above prices and payments will be full compensation for all materials, labor, equipment, and incidentals necessary for removal or abandonment.

Payment will be made under:

8.06 A ABANDON SEWER PIPE IN PLACETON
8.06 B REMOVAL OF SEWER PIPETON
8.06 C REMOVAL OF SEWER MANHOLE.....TON

Updates to 8.12 Bypass Pumping

Replace “Method of Measurement” with the following:

The quantity of Bypass Pumping system (the Pumpwatch and bypass pumps) to be measured will be actual days the system is being operated and accepted by the Engineer. The daily rate of bypass pump operating is per pump system based on its flow capacities up to and including 2 MGD. This pump system includes the primary and backup pumps along with float switch, check valve and up to and including 300 linear feet of water tight piping.

Pumps with a capacity over 2 MGD will be considered a negotiated price for material specified in once approved by Charlotte Water and the Engineer.

The quantity of additional hard piping based on the approved bypass pumping plan to be measured will be the actual number of linear feet of piping used and accepted by the Engineer beyond the initial 300 linear feet.

Replace “Measurement and Payment” with the following:

The quantity of Bypass Pump, measured as provided above, will be paid for at the contract unit price per “COST PER DAY PER PUMP SYSTEM UP TO 300 LINEAR FEET OF PIPING” and “COST PER PUMPWATCH (24/7)” separately.

The initial cost, set-up (including the multiple pumps), operation, maintenance, and monitoring of the bypass pumps is incidental to the daily operating cost of pump system.

The quantity of Hard Piping, measured as provided above, will be paid for at the contract linear feet price per "WATERTIGHT HARD PIPING" for all additional linear feet.

The above prices and payments will be full compensation for all materials, labor, equipment, and incidentals necessary for Bypass Pumping.

Payment will be made under:

8.12 A-B COST PER DAY PER PUMP SYSTEM (for specific diameter on Bid Tab) DAY

8.12 C COST PER DAY PER PUMPWATCH (24/7) DAY

8.12 D WATERTIGHT HARD PIPING (for specific diameter on Bid Tab) LF

MODIFICATIONS TO THE BID FORM

Delete ARTICLE 5 – BASIS OF BID "BID TABULATION" and replace with the attached Bid Tabulation.

This addendum **must** be acknowledged as Addendum No.2 on the Execution of Bid/Proposal Signature Page.



Matthew Shoesmith, P.E.
Kimley-Horn and Associates, Inc.



BID TABULATION
ON-CALL STREAM RESTORATION AND SANITARY SEWER REPAIR
MECKLENBURG COUNTY, NORTH CAROLINA

ITEM		DESCRIPTION	Quantity	UNIT	UNIT PRICE	EXTENDED TOTAL
SECTION ONE: COMMON ITEMS						
SITE PREPARATION						
2.01	A.	MOBILIZATION - START OF ORIGINAL CONTRACT (TOTAL AMOUNT ENTERED NOT TO EXCEED 1.5% OF ITEMS 2.02 THROUGH 8.13)	1	LS	\$	-
	B.	MOBILIZATION - WORK ORDER (TOTAL AMOUNT ENTERED NOT TO EXCEED 3% OF ITEMS 2.02 THROUGH 8.13)	1	LS	\$	-
2.02		PROJECT STAKEOUT	10	AC	\$	-
2.03		FOR CLEARING AND GRUBBING UNDERBRUSH, AS SPECIFIED				
	A.	CLEARING AND GRUBBING UNDERBRUSH OF ITEMS LESS THAN 6-INCHES IN DIAMETER	48,000	SY	\$	-
	B.	FOR CUTTING AND DISPOSING (OR STACKING) OF TREES, LARGER THAN 6-INCH DIAMETER, AS SPECIFIED			\$	-
	1)	SELECT TREE REMOVAL (6"-18" DIAMETER)	20	EA	\$	-
	2)	SELECT TREE REMOVAL (18"-30" DIAMETER)	10	EA	\$	-
	3)	SELECT TREE REMOVAL (>30" DIAMETER)	10	EA	\$	-
2.04		REMOVE/REPLACEMENT OF FENCE OR GATE				
	A.	REMOVE/REPLACEMENT OF FENCE				
		SPLIT RAIL	30	LF	\$	-
		CHAIN LINK	30	LF	\$	-
	B.	REMOVE/REPLACEMENT OF GATE	50	LF	\$	-
2.05		ROADSIDE STRUCTURES				
	A.	INSTALL REPLACEMENT CONCRETE SIDEWALK	50	SY	\$	-
	B.	INSTALL REPLACEMENT CONCRETE CURB	50	LF	\$	-
EARTHWORK						
3.01		GRADING (CUT, PLACE, AND COMPACT) ON-SITE	4,000	CY	\$	-
3.02		BORROW EXCAVATION	400	CY	\$	-
3.04		ROCK REMOVAL (BY DRILLING, BLASTING, OR JACK HAMMERING)	400	CY	\$	-
STONE PLACEMENT						
4.01		RIP RAP				
	A.	NO. 5 WASHED STONE	10	TON	\$	-
	B.	#57 STONE	35	TON	\$	-
	C.	MISC RIPRAP (CLASS A, CLASS B, CLASS I, & CLASS II)				
	1)	CLASS A	25	TON	\$	-
	2)	CLASS B	50	TON	\$	-
	3)	CLASS I	50	TON	\$	-
	4)	CLASS II	25	TON	\$	-
CHANNEL BANK AND BED PROTECTION						
5.02		VARIABLE CONSTRUCTED RIFFLE				
	A.	CONSTRUCTED RIFFLE	850	SY	\$	-
	B.	ROCK AND RAIL RIFFLE	200	SY	\$	-
5.03		BOULDER J-HOOK VANE	200	LF	\$	-
5.04		LOG VANE OR LOG J-HOOK VANE				
	A.	LOG VANE	200	LF	\$	-
	B.	LOG J-HOOK VANE	200	LF	\$	-
5.05		STEP-POOL STRUCTURES	1200	SY	\$	-
5.06		ROCK CROSS VANE	200	LF	\$	-
5.07		LOG SILL	20	EA	\$	-
5.08		ROCK SILL	20	EA	\$	-
5.09		TOE PROTECTION				
	A.	TOE PROTECTION-BOULDER	20	SY	\$	-
	B.	TOE PROTECTION-RIP RAP	500	SY	\$	-
5.1		TOE WOOD	300	LF	\$	-
5.11		SOIL LIFTS	500	SY	\$	-
5.12		STEEL SHEET PILE BANK PROTECTION	2700	SF	\$	-
5.13		ARTICULATING CONCRETE BLOCKS	450	SF	\$	-
EROSION CONTROL						
6.01		TEMPORARY CONSTRUCTION ENTRANCE	20	EA	\$	-
6.02		TEMPORARY HALL/ACCESS ROADS - GRAVEL	2000	LF	\$	-
6.03		TEMPORARY UTILITY MAT PROTECTION				
	A.	TEMPORARY STEEL MAT	100	SY	\$	-
	B.	TEMPORARY MUD MAT	400	SY	\$	-
6.05		TEMPORARY SILT FENCE	10000	LF	\$	-
6.06		TEMPORARY TREE PROTECTION/SAFETY FENCE	5000	LF	\$	-
6.07		TEMPORARY STREAM/DITCH CROSSING	20	EA	\$	-
6.08		COIR FIBER MATTING				
	A.	COIR FIBER MATTING-400G	3000	SY	\$	-
	B.	COIR FIBER MATTING-700G	4000	SY	\$	-
	C.	COIR FIBER MATTING-900G	500	SY	\$	-
6.09		TEMPORARY SEED AND MULCH	20	AC	\$	-
6.10		STREAM BYPASS PUMP				
	A.	STREAM BYPASS PUMP-AROUND OPERATION 2-INCH PUMP	120	DAY	\$	-
	B.	STREAM BYPASS PUMP-AROUND OPERATION 4-INCH PUMP	90	DAY	\$	-
	C.	STREAM BYPASS PUMP-AROUND OPERATION 6-INCH PUMP	90	DAY	\$	-
6.11		SPECIAL STILLING BASIN	40	EA	\$	-
6.13		TEMPORARY ROCK SILT CHECK	20	EA	\$	-
PLANTING						
7.03		PERMANENT SEEDING-RIPARIAN	26000	SY	\$	-
7.04		PERMANENT SEEDING-NON-RIPARIAN	26000	SY	\$	-
7.05		LIVE STAKES	3000	EA	\$	-
7.06		TUBELINGS	200	EA	\$	-
7.07		HERBACEOUS PLUGS	90	EA	\$	-
7.08		TOP SOIL	600	CY	\$	-
7.09		SOD	10000	SY	\$	-
SECTION TWO: SEWER						
8.01		FOR INSTALLING NEW PVC SEWERS TO REPLACE EXISTING SEWERS FROM MANHOLE TO MANHOLE, EITHER IN THE SAME TRENCH OR IN NEW LOCATIONS, AS SPECIFIED BELOW, VARIOUS DEPTHS, BACKFILLING WITH EXCAVATED SOIL, ALL SPECIFIED BEDDING REQUIREMENTS, AS SPECIFIED, COMPLETE IN PLACE				
	A.	4" PVC SANITARY SEWER	100	LF	\$	-
	B.	4" PVC SANITARY SEWER LATERAL CONNECTION	10	EA	\$	-
	C.	4" PVC CLEAN OUT	10	EA	\$	-
8.02		FOR INSTALLING NEW DIP SEWERS TO REPLACE EXISTING SEWERS FROM MANHOLE TO MANHOLE, EITHER IN THE SAME TRENCH OR IN NEW LOCATIONS, VARIOUS DIAMETERS AS SPECIFIED BELOW, VARIOUS DEPTHS, BACKFILLING WITH EXCAVATED SOIL, ALL SPECIFIED BEDDING REQUIREMENTS, CCTV OF NEW AND EXISTING SEWERS, ANTI-SEEP COLLARS, INCLUDING COMPLETE RESTORATION OF GRASSED AREAS (RESTORATION OF PAVED AREAS PAID UNDER SEPARATE BID ITEMS), AS SPECIFIED, COMPLETE IN PLACE				
	A.	8" DIP SEWER (CLASS 350)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	B.	10" DIP SEWER (CLASS 350)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	C.	12" DIP SEWER (CLASS 350)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	D.	16" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	E.	20" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	F.	24" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	G.	30" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	H.	36" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	I.	42" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-
	2)	ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
	J.	48" DIP SEWER (CLASS 250)				
	1)	0 TO 6 FEET DEEP	100	LF	\$	-

ITEM	DESCRIPTION	Quantity	UNIT	UNIT PRICE	EXTENDED TOTAL
	2) ADD ON COSTS FOR EACH VERTICAL FOOT FOR DEPTHS FROM 6.1 FEET DEEP TO 15 FEET DEEP	100	LF	\$	-
K	THE ADD ON COST FOR SUBSTITUTING RESTRAINED JOINT DUCTILE IRON PIPE FOR ANY DUCTILE IRON PIPE INCLUDED IN THE CONTRACT, AS SPECIFIED, COMPLETE IN PLACE				
	1) 8" RJ DIP SEWER	40	LF	\$	-
	2) 10" RJ DIP SEWER	40	LF	\$	-
	3) 12" RJ DIP SEWER	40	LF	\$	-
	4) 16" RJ DIP SEWER	40	LF	\$	-
	5) 20" RJ DIP SEWER	40	LF	\$	-
	6) 24" RJ DIP SEWER	40	LF	\$	-
	7) 30" RJ DIP SEWER	40	LF	\$	-
	8) 36" RJ DIP SEWER	40	LF	\$	-
	9) 42" RJ DIP SEWER	40	LF	\$	-
	10) 48" RJ DIP SEWER	40	LF	\$	-
L	FOR CLEANING AND TELEVISIONING NEW SEWER MAIN AND EXISTING SEWERS TO FURTHER EVALUATE THE SEWERS, AS SPECIFIED, ANY REQUIRED CLEANING, ANY LENGTH OF SEWER, COMPLETE IN PLACE FOR VARIOUS PIPE DIAMETERS IN ACCORDANCE TO NASSCO STANDARDS				
	1) EXISTING SEWER MAINS LESS THAN OR EQUAL TO 10" IN DIAMETER	2000	LF	\$	-
	2) EXISTING SEWER MAINS FROM 12" TO 21" IN DIAMETER	1000	LF	\$	-
	3) EXISTING SEWER MAINS FROM 24" TO 48" IN DIAMETER	500	LF	\$	-
8.03	FOR INSTALLING AERIAL STEEL PIPE CROSSINGS, ANY LOCATION, VARIOUS PIPE DIAMETERS, AS SPECIFIED, COMPLETE IN PLACE.				
A	8" DIAMETER (GRADE "B") STEEL SEWERS				
	1) 0 TO 20 FEET LONG	1	EA	\$	-
	2) GREATER THAN 20 FEET IN LENGTH, PAYMENT FOR EACH FOOT OVER 20 FEET, ADD TO ITEM (A)(1) ABOVE	20	LF	\$	-
B	10" DIAMETER (GRADE "B") STEEL SEWERS				
	1) 0 TO 20 FEET LONG	1	EA	\$	-
	2) GREATER THAN 20 FEET IN LENGTH, PAYMENT FOR EACH FOOT OVER 20 FEET, ADD TO ITEM (B)(1) ABOVE	20	LF	\$	-
C	12" DIAMETER (GRADE "B") STEEL SEWERS				
	1) 0 TO 20 FEET LONG	1	EA	\$	-
	2) GREATER THAN 20 FEET IN LENGTH, PAYMENT FOR EACH FOOT OVER 20 FEET, ADD TO ITEM (C)(1) ABOVE	20	LF	\$	-
D	16" DIAMETER (GRADE "B") STEEL SEWERS				
	1) 0 TO 20 FEET LONG	1	EA	\$	-
	2) GREATER THAN 20 FEET IN LENGTH, PAYMENT FOR EACH FOOT OVER 20 FEET, ADD TO ITEM (D)(1) ABOVE	20	LF	\$	-
E	24" DIAMETER (GRADE "B") STEEL SEWERS				
	1) 0 TO 20 FEET LONG	1	EA	\$	-
	2) GREATER THAN 20 FEET IN LENGTH, PAYMENT FOR EACH FOOT OVER 20 FEET, ADD TO ITEM (E)(1) ABOVE	20	LF	\$	-
8.04	FOR INSTALLING REINFORCED CONCRETE PIERS, ANY LOCATION, AS SPECIFIED IN ACCORDANCE TO CLTW DETAIL, COMPLETE IN PLACE.				
A	REINFORCED CONCRETE PIER				
	1) 0 TO 6 VERTICAL FEET, COST PER PIER	1	EA	\$	-
	2) GREATER THAN 6 VERTICAL FEET, PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET, ADD TO ITEM (A)(1) ABOVE	20	VF	\$	-
B	REINFORCED CONCRETE ANCHOR PIER				
	1) 0 TO 6 VERTICAL FEET, COST PER ANCHOR PIER	1	EA	\$	-
	2) GREATER THAN 6 VERTICAL FEET, PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET, ADD TO ITEM (B)(1) ABOVE	20	VF	\$	-
8.06	FOR REMOVAL OF EXISTING UTILITIES, ANY LOCATION, AS SPECIFIED, COMPLETE IN PLACE				
A	ABANDON SEWER PIPE IN PLACE	100	LF	\$	-
B	REMOVAL OF SEWER PIPE	100	LF	\$	-
C	REMOVAL OF SEWER MANHOLE	5	EA	\$	-
8.08	FOR INSTALLING NEW PRECAST CONCRETE MANHOLES WITH A CONE SECTION TOP ON EXIST OR NEW SEWERS, VARIOUS DEPTHS AND SIZES OF SEWERS, COMPLETE RESTORATION, AS SPECIFIED, COMPLETE IN PLACE.				
A	4 FOOT DIAMETER MANHOLE UP TO 6 FEET IN DEPTH IN UNPAVED AREAS				
	1) WITH 24" SOLID COVER	2	EA	\$	-
	2) WITH 24" CAM-LOCK WATERTIGHT COVER	2	EA	\$	-
	3) ADD ON COST IF MANHOLE IS IN PAVED AREA (ADD ON ITEMS (A)(1) AND (A)(2) ABOVE)	2	EA	\$	-
	4) PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET (ADD ON TO ITEMS (A)(1) AND (A)(2) ABOVE)	20	VF	\$	-
	5) ADD ON COST IF MANHOLE IS A FLAT-TOP (ADD ON ITEMS (A)(1) AND (A)(2) ABOVE)	8	EA	\$	-
B	5 FOOT DIAMETER MANHOLE UP TO 6 FEET IN DEPTH IN UNPAVED AREAS				
	1) WITH 30" SOLID COVER	2	EA	\$	-
	2) WITH 30" CAM-LOCK WATERTIGHT COVER	2	EA	\$	-
	3) ADD ON COST IF MANHOLE IS IN PAVED AREA (ADD ON ITEMS (B)(1) AND (B)(2) ABOVE)	2	EA	\$	-
	4) PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET (ADD ON TO ITEMS (B)(1) AND (B)(2) ABOVE)	20	VF	\$	-
	5) ADD ON COST IF MANHOLE IS A FLAT-TOP (ADD ON ITEMS (B)(1) AND (B)(2) ABOVE)	6	EA	\$	-
C	6 FOOT DIAMETER MANHOLE UP TO 6 FEET IN DEPTH IN UNPAVED AREAS				
	1) WITH 30" SOLID COVER	2	EA	\$	-
	2) WITH 30" CAM-LOCK WATERTIGHT COVER	2	EA	\$	-
	3) ADD ON COST IF MANHOLE IS IN PAVED AREA (ADD ON ITEMS (C)(1) AND (C)(2) ABOVE)	2	EA	\$	-
	4) PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET (ADD ON TO ITEMS (C)(1) AND (C)(2) ABOVE)	20	VF	\$	-
	5) ADD ON COST IF MANHOLE IS A FLAT-TOP (ADD ON ITEMS (C)(1) AND (C)(2) ABOVE)	3	EA	\$	-
D	8 FOOT DIAMETER MANHOLE UP TO 6 FEET IN DEPTH IN UNPAVED AREAS				
	1) WITH 30" SOLID COVER	2	EA	\$	-
	2) WITH 30" CAM-LOCK WATERTIGHT COVER	3	EA	\$	-
	3) ADD ON COST IF MANHOLE IS IN PAVED AREA (ADD ON ITEMS (D)(1) AND (D)(2) ABOVE)	2	EA	\$	-
	4) PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET (ADD ON TO ITEMS (D)(1) AND (D)(2) ABOVE)	20	VF	\$	-
	5) ADD ON COST IF MANHOLE IS A FLAT-TOP (ADD ON ITEMS (D)(1) AND (D)(2) ABOVE)	3	EA	\$	-
E	COST FOR ADDITIONAL CONNECTING SEWER INCLUDING 10 FEET OF DIP SEWER, ANY LOCATION, ANY DEPTH, ANY MANHOLE DIAMETER				
	1) 4" OR 6" SERVICE LATERALS	4	EA	\$	-
	2) 8" SEWER	4	EA	\$	-
	3) 10" SEWER	4	EA	\$	-
	4) 12" SEWER	4	EA	\$	-
	5) 16" SEWER	4	EA	\$	-
	6) 20" SEWER	2	EA	\$	-
8.09	FOR REMOVING EXISTING MANHOLE CHIMNEY OR CONE SECTIONS DOWN TO SOLID WALL MATERIAL AND INSTALLING NEW PRECAST CONCRETE MANHOLE RISER SECTIONS TO THE SPECIFIED ELEVATION, INSTALLING A FLAT-TOP SECTION OR A STANDARD CONE SECTION AS SPECIFIED, VARIOUS MANHOLE DIAMETERS AS LISTED BELOW, ANY LOCATION, ANY HEIGHT OF NEW MANHOLE RISER SECTIONS REQUIRED, BACKFILLING WITH EXCAVATED SOIL, REMOVAL AND DISPOSAL OF ALL EXISTING MATERIALS OFF-SITE, AS SPECIFIED AND IN ACCORDANCE WITH CLTW DETAILS, COMPLETE IN PLACE				
A	EXISTING 4-FOOT DIAMETER MANHOLES				
	REMOVE EXISTING MANHOLE CHIMNEY OR CONE SECTION AND INSTALL NEW 4-FOOT-DIAMETER RISER SECTIONS TO THE SPECIFIED OR REQUIRED ELEVATION, PAYMENT FOR EACH VERTICAL FOOT OF NEW PRECAST RISER INSTALLED				
	1)	10	VF	\$	-
	2) INSTALL FLAT-TOP WITH A 24" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
	3) INSTALL 3-FOOT-LONG CONE SECTION WITH A 24" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
B	EXISTING 5-FOOT DIAMETER MANHOLES				
	REMOVE EXISTING MANHOLE CHIMNEY OR CONE SECTION AND INSTALL NEW 5-FOOT-DIAMETER RISER SECTIONS TO THE SPECIFIED OR REQUIRED ELEVATION, PAYMENT FOR EACH VERTICAL FOOT OF NEW PRECAST RISER INSTALLED				
	1)	10	VF	\$	-
	2) INSTALL FLAT-TOP WITH A 30" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
	3) INSTALL 3-FOOT-LONG CONE SECTION WITH A 30" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
C	EXISTING 6-FOOT DIAMETER MANHOLES				
	REMOVE EXISTING MANHOLE CHIMNEY OR CONE SECTION AND INSTALL NEW 6-FOOT-DIAMETER RISER SECTIONS TO THE SPECIFIED OR REQUIRED ELEVATION, PAYMENT FOR EACH VERTICAL FOOT OF NEW PRECAST RISER INSTALLED				
	1)	10	VF	\$	-
	2) INSTALL FLAT-TOP WITH A 30" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
	3) INSTALL 3-FOOT-LONG CONE SECTION WITH A 30" CAM-LOCK WATERTIGHT COVER	5	EA	\$	-
8.10	FOR INSTALLING NEW VENT PIPES AT MANHOLES, ANY LOCATION, ANY HEIGHT, AS SPECIFIED AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DETAILS, COMPLETE IN PLACE. PAYMENT TO BE MADE BASED ON THE VERTICAL HEIGHT INSTALLED MEASURED FROM THE BOTTOM OF THE VENT PIPE TO THE VENT PIPE OPENING.				
A	FOR INSTALLING NEW VENT PIPES IN NEW FLAT-TOP SECTIONS, ANY LOCATION, ANY HEIGHT, AS SPECIFIED AND IN ACCORDANCE WITH CHARLOTTE WATER STANDARD SPECIFICATIONS AND DETAILS.	10	VF	\$	-
B	FOR INSTALLING NEW VENT PIPES AT EXISTING MANHOLES, ANY LOCATION, ANY HEIGHT, AS SPECIFIED AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DETAILS, COMPLETE IN PLACE.	10	VF	\$	-
8.11	FOR INSTALLING NEW EXTERNAL DROP CONNECTIONS AT NEW OR EXISTING MANHOLES, DUCTILE IRON DROPS ONLY, VARIOUS DROP PIPE DIAMETERS AND LENGTHS, COMPLETE RESTORATION OF GRASSED AREAS (RESTORATION OF PAVED AREAS PAID UNDER SEPARATE BID ITEMS), AS SPECIFIED, COMPLETE IN PLACE.				
A	8-INCH EXTERNAL DROP CONNECTION AT NEW OR EXIST MANHOLES INCLUDING 10 FEET OF NEW 8-INCH SEWER TO CONNECT TO EXIST OR NEW SEWER			\$	-
	1) DROP UP TO 6 FEET IN VERTICAL LENGTH AT A NEW/EXISTING MANHOLE, COST PER DROP CONNECTION	4	EA	\$	-
	2) DROP GREATER THAN 6 FEET, PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET, ADD TO ITEM (A)(1) OR (B)(2) ABOVE	10	VF	\$	-
B	10-INCH EXTERNAL DROP CONNECTION AT NEW OR EXIST MANHOLES INCLUDING 10 FEET OF NEW 8-INCH SEWER TO CONNECT TO EXIST OR NEW SEWER				
	1) DROP UP TO 6 FEET IN VERTICAL LENGTH AT A NEW/EXISTING MANHOLE, COST PER DROP CONNECTION	4	EA	\$	-
	2) DROP GREATER THAN 6 FEET, PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET, ADD TO ITEM (B)(1) OR (B)(2) ABOVE	10	VF	\$	-

ITEM	DESCRIPTION	Quantity	UNIT	UNIT PRICE	EXTENDED TOTAL
	12-INCH EXTERNAL DROP CONNECTION AT NEW OR EXIST MANHOLES INCLUDING 10 FEET OF NEW 8-INCH SEWER TO CONNECT TO EXIST OR NEW SEWER				
C					
	1) DROP UP TO 6 FEET IN VERTICAL LENGTH AT A NEW/EXISTING MANHOLE, COST PER DROP CONNECTION	4	EA	\$	-
	2) DROP GREATER THAN 6 FEET, PAYMENT FOR EACH VERTICAL FOOT OVER 6 FEET, ADD TO ITEM (C)(1) OR (C)(2) ABOVE	10	VF	\$	-
8.12	FOR PERFORMING BYPASS PUMPING BASED UP TO AND INCLUDE 2 MGD CAPACITY, ALL OTHER BYPASS PUMPING TO BE NEGOTIATED FOR A WORK CHANGE DIRECTIVE				
A.	COST PER DAY PER 0.1 MGD PUMP	5	DAY	\$	-
B.	COST PER DAY PER 1.01-2 MGD PUMP	5	DAY	\$	-
C.	COST PER PUMPWATCH (24/7)	5	DAY	\$	-
D.	COST PER FOOT OF HARD PIPING WITH ALL NECESSARY WATERTIGHT CONNECTIONS			\$	-
	1) 6" HARD PIPING	200	LF	\$	-
	2) 8" HARD PIPING	200	LF	\$	-
8.13	FOR INSTALLING CEMENTIOUS MORTAR ON EXISTING MANHOLES, AS SPECIFIED, ANY LOCATION, COMPLETE IN PLACE				
A.	FOR INSTALLING 1" THICK CEMENTIOUS MORTAR ON EXISTING INTERNAL MANHOLE WALLS & BENCHES, AS SPECIFIED AND IN ACCORDANCE WITH CHARLOTTE WATER STANDARDS, ANY LOCATION, COMPLETE IN PLACE				
	1) IN EXISTING 4 FOOT DIAMETER MANHOLES - ANY SPECIFIED MATERIAL	10	VF	\$	-
	2) IN EXISTING 4 FOOT DIAMETER MANHOLES - HYDROGEN SULFIDE RESISTANT MATERIAL AS SPECIFIED	10	VF	\$	-
	3) IN EXISTING 5 FOOT DIAMETER MANHOLES - ANY SPECIFIED MATERIAL	10	VF	\$	-
	4) IN EXISTING 5 FOOT DIAMETER MANHOLES - HYDROGEN SULFIDE RESISTANT MATERIAL AS SPECIFIED	10	VF	\$	-
	5) IN EXISTING 6 FOOT DIAMETER MANHOLES - ANY SPECIFIED MATERIAL	10	VF	\$	-
	6) IN EXISTING 6 FOOT DIAMETER MANHOLES - HYDROGEN SULFIDE RESISTANT MATERIAL AS SPECIFIED	10	VF	\$	-
	7) IN EXISTING 8 FOOT DIAMETER MANHOLES - ANY SPECIFIED MATERIAL	10	VF	\$	-
	8) IN EXISTING 8 FOOT DIAMETER MANHOLES - HYDROGEN SULFIDE RESISTANT MATERIAL AS SPECIFIED	10	VF	\$	-
B.	FOR INSTALLING SPECIAL EXTERIOR CEMENTIOUS MORTAR PRODUCT ON THE OUTSIDE OF EXPOSED MANHOLE WALLS, MINIMUM 1" THICK, AS SPECIFIED AND IN ACCORDANCE WITH CHARLOTTE WATER STANDARDS, ANY LOCATION, COMPLETE IN PLACE				
	1) EXISTING INTERNAL 4-FOOT DIAMETER MANHOLES	10	VF	\$	-
	2) EXISTING INTERNAL 5-FOOT DIAMETER MANHOLES	10	VF	\$	-
	3) EXISTING INTERNAL 6-FOOT DIAMETER MANHOLES	10	VF	\$	-
	4) EXISTING INTERNAL 8-FOOT DIAMETER MANHOLES	10	VF	\$	-
SECTION THREE: UNSPECIFIED TIME AND MATERIAL					
9.01	LABOR REGULAR TIME				
A.	CONTRACTOR PROJECT MANAGER	40	HR	\$	-
B.	SUPERINTENDENT w/CDL	40	HR	\$	-
C.	EQUIPMENT OPERATOR w/CDL	40	HR	\$	-
D.	PIPE LAYER w/CDL	40	HR	\$	-
E.	LABORER w/CDL	40	HR	\$	-
9.02	VEHICLES				
A.	UP TO CLASS 7 ENCLOSED CREW SUPPORT TRUCK, UNLIMITED MILEAGE	5	DAY	\$	-
B.	UP TO CLASS 7 DUMP TRUCK, UNLIMITED MILEAGE	5	DAY	\$	-
C.	UP TO CLASS 7 STAKE BODY FLAT BED, UNLIMITED MILEAGE	5	DAY	\$	-
D.	12-TON CAPACITY TRAILER, UNLIMITED MILEAGE	5	DAY	\$	-
E.	CLASS 2 OR 3 TRUCK, CLASS 4 HITCH, UNLIMITED MILEAGE	5	DAY	\$	-
F.	SOLAR POWERED ARROW BOARD (QUIET)	5	DAY	\$	-
G.	ROAD TRACTOR AND TRAILER				
	1) 12-25 TON LOAD WEIGHT, UNLIMITED MILEAGE	40	HR	\$	-
	2) 25.01 - 50 TON LOAD WEIGHT, UNLIMITED MILEAGE	40	HR	\$	-
H.	CLASS 8 DUMP TRUCK, UNLIMITED MILEAGE	40	HR	\$	-
9.03	MACHINERY/EXCAVATOR				
A.	MINI CLASS AND NARROW AND 1/4 - 1/3 CY BUCKETS	5	DAY	\$	-
B. 1)	SMALL CLASS AND 1/2 AND 3/4 CY BUCKETS	5	DAY	\$	-
C. 2)	MEDIUM CLASS AND 1 CY BUCKET	5	DAY	\$	-
	Sub-total	1	LS	--	\$
	CONTINGENCY (10% OF ITEMS 2.01 THROUGH 9.03)	1	LS	--	\$
	TOTAL			\$	-