



Fulton County, GA

Department of Purchasing & Contract Compliance

November 26, 2013

Re: **#13ITB90511K-DB**
2013 Standby Miscellaneous Construction-Wastewater System Services

Dear Vendors:

Attached is one (1) copy of Addendum 2, hereby made a part of the above referenced **#13ITB90511K-DB; 2013 Standby Miscellaneous Construction-Wastewater System Services**.

Except as provided herein, all terms and conditions in the ITB referenced above remain unchanged and in full force and effect.

Sincerely,

Darlene A. Banks, APA

Winner 2000 - 2009 Achievement of Excellence in
Procurement Award • National Purchasing Institute



**#13ITB90511K-DB; 2013 Standby Miscellaneous Construction-Wastewater System Services
Addendum No. 2
Page Two**

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

- **Section 2, BID FORM (Revised & Replaces Bid Form in Addendum 1)**
- **Section 01025, Measurement and Payment (Revised)**
- **Delete Georgia Professional License**
- **Due Date has been changed to Tuesday, December 10, 2013 @ 11:00am**
- **The County is not accepting any more questions for this project.**

ACKNOWLEDGEMENT OF ADDENDUM NO. 2

The undersigned bidder acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **Tuesday, December 10, 2013, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 2, _____ day of _____, 20__.

Legal Name of Bidder

Signature of Authorized Representative

Title

BID FORM (REVISED 11/26/2013)

Submitted To: Fulton County Government

Submitted By: _____

For: Bid #13ITB90511K-DB, 2013 Standby Miscellaneous Construction-Wastewater System Services

Submitted on _____, 2013.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the Drawings and Specifications for the work and contractual documents relative thereto, and has read all instructions to Bidders and General Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this Bid is accepted, to contract with the Board of Commissioners of Fulton County, Atlanta, Georgia, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary, and to complete the construction of the work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Specifications and Contract Documents to the full and entire satisfaction of the Board of Commissioners of Fulton County, Atlanta, Georgia, with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents for the following prices.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

BASE BID AMOUNT (Do not include any Bid Alternates)

\$ _____

(Dollar Amount In Numbers)

(Dollar Amount in Words)

Make sure that all line items below are accurately calculated and total up to the inclusive BASE BID TOTAL amount entered on Page 1.

A. Method of Bidding

The unit or lump sum price for each of the several items in the Bid of each Bidder shall include its pro rata share of overhead and profit so that the sum of the products, obtained by multiplying the quantity shown for each item by the unit price, represents the total Bid. Any Bid not conforming to this requirement may be rejected. Additionally, Unbalanced Bids or conditional Bids will be subject to rejection. The special attention of all Bidders is called to this provision, for should conditions make it necessary to revise the quantities, no limit will be fixed for such increased or decreased quantities nor extra compensation allowed.

ITEM 1 - CONTRACTOR MOBILIZATION

| | | | | | |
|----|----|------|--|-------------|--------------|
| a. | 5 | Each | For Each Project Less Than \$25,000 | \$ 500/EA | \$ 2,500.00 |
| b. | 10 | Each | For Each Project \$25,000 to \$75,000 | \$ 1000/EA | \$ 10,000.00 |
| c. | 7 | Each | For Each Project Greater Than \$75,000 | \$ 1,500/EA | \$ 10,500.00 |

ITEM 2 - 8-INCH DIP GRAVITY SEWER

| | | | | | |
|----|-------|------|-----------------------------------|--------------|---------|
| a. | 1,000 | L.F. | 0.0 - 6.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| b. | 800 | L.F. | 6.1 - 12.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| c. | 100 | L.F. | 12.1 - 18.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| d. | 100 | L.F. | 18.1 - 25.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| e. | 100 | L.F. | Greater than 25 Foot Depth | \$ ____/L.F. | \$ ____ |
| f. | 100 | L.F. | Installed in 16-inch Steel Casing | \$ ____/L.F. | \$ ____ |

ITEM 3 - 10-INCH DIP GRAVITY SEWER

| | | | | | |
|----|-------|------|-----------------------------------|--------------|---------|
| a. | 1,000 | L.F. | 0.0 - 6.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| b. | 800 | L.F. | 6.1 - 12.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| c. | 200 | L.F. | 12.1 - 18.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| d. | 100 | L.F. | 18.1 - 25.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| e. | 100 | L.F. | Greater than 25 Foot Depth | \$ ____/L.F. | \$ ____ |
| f. | 100 | L.F. | Installed in 18-inch Steel Casing | \$ ____/L.F. | \$ ____ |

ITEM 4 - 12-INCH DIP GRAVITY SEWER

| | | | | | |
|----|-----|------|-----------------------------------|--------------|---------|
| a. | 500 | L.F. | 0.0 - 6.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| b. | 150 | L.F. | 6.1 - 12.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| c. | 100 | L.F. | 12.1 - 18.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| d. | 100 | L.F. | 18.1 - 25.0 Foot Depth | \$ ____/L.F. | \$ ____ |
| e. | 100 | L.F. | Greater than 25 Foot Depth | \$ ____/L.F. | \$ ____ |
| f. | 100 | L.F. | Installed in 20-inch Steel Casing | \$ ____/L.F. | \$ ____ |

ITEM 5 – PIPE BURSTING

| | | | | | |
|----|------|------|---------------------------|---------------|----------|
| a. | 1000 | L.F. | Burst 8" to 8" diameter | \$ _____/L.F. | \$ _____ |
| b. | 1000 | L.F. | Burst 8" to 10" diameter | \$ _____/L.F. | \$ _____ |
| c. | 1000 | L.F. | Burst 10" to 12" diameter | \$ _____/L.F. | \$ _____ |
| d. | 1000 | L.F. | Burst 12" to 18" diameter | \$ _____/L.F. | \$ _____ |

ITEM 6 - HDPE PIPE SLIPLINING

| | | | | | |
|----|------|------|--------------|---------------|----------|
| a. | 1000 | L.F. | 8" diameter | \$ _____/L.F. | \$ _____ |
| b. | 1000 | L.F. | 10" diameter | \$ _____/L.F. | \$ _____ |
| c. | 1000 | L.F. | 12" diameter | \$ _____/L.F. | \$ _____ |

ITEM 7 – CURED IN PLACE PIPE LINING

| | | | | | |
|----|------|------|--------------|---------------|----------|
| a. | 1000 | L.F. | 8" diameter | \$ _____/L.F. | \$ _____ |
| b. | 1000 | L.F. | 10" diameter | \$ _____/L.F. | \$ _____ |
| c. | 1000 | L.F. | 12" diameter | \$ _____/L.F. | \$ _____ |

ITEM 8 – SERVICE LINE RECONNECTIONS

| | | | | | |
|----|----|------|--|-------------|----------|
| a. | 40 | Each | By excavation for HDPE, pipe bursting, or CIPP 0 to 10' depth | \$ _____/EA | \$ _____ |
| b. | 20 | Each | By excavation for HDPE, pipe bursting, or CIPP greater the 10' depth | \$ _____/EA | \$ _____ |
| c. | 20 | Each | By internal reinstatement for CIPP | \$ _____/EA | \$ _____ |

ITEM 9 – 4-FOOT DIAMETER MANHOLE REHABILITATION – SPRAY ON CEMENTIOUS LINER

| | | | | | |
|----|-----|------|--------------------------------|-------------|----------|
| a. | 200 | V.F. | Up to 5' manhole depth | \$ _____/VF | \$ _____ |
| b. | 200 | V.F. | 6' to 10' manhole depth | \$ _____/VF | \$ _____ |
| c. | 100 | V.F. | 11' to 15' manhole depth | \$ _____/VF | \$ _____ |
| d. | 100 | V.F. | 15' to 20' manhole depth | \$ _____/VF | \$ _____ |
| e. | 80 | V.F. | Greater than 20' manhole depth | \$ _____/VF | \$ _____ |

ITEM 10 - 6-INCH DIP SEWER SERVICE CONNECTIONS

| | | | | | |
|----|-----|------|--|---------------|----------|
| a. | 500 | L.F. | On New Sewer Main | \$ _____/L.F. | \$ _____ |
| b. | 500 | L.F. | On Existing Sewer Main | \$ _____/L.F. | \$ _____ |
| c. | 500 | L.F. | On Existing Sewer Main Greater than 18.1 Foot Depth | \$ _____/L.F. | \$ _____ |
| d. | 100 | L.F. | From New Manhole | \$ _____/L.F. | \$ _____ |
| e. | 100 | L.F. | From Existing Manhole | \$ _____/L.F. | \$ _____ |
| f. | 100 | L.F. | From Existing Manhole Greater than 18.1 Foot Depth | \$ _____/L.F. | \$ _____ |
| g. | 500 | L.F. | Clean-out Assembly - Complete | \$ _____/L.F. | \$ _____ |

ITEM 11 - 4-FOOT DIAMETER PRECAST MANHOLE

| | | | | | |
|----|----|------|----------------------------|---------------|----------|
| a. | 50 | V.F. | 0.0 - 6.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| b. | 50 | V.F. | 6.1 - 12.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| c. | 18 | V.F. | 12.1 - 18.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| d. | 20 | V.F. | 18.1 - 25.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| e. | 30 | V.F. | Greater than 25 Foot Depth | \$ _____/V.F. | \$ _____ |

ITEM 12 - 4-FOOT DIAMETER DOGHOUSE MANHOLE

| | | | | | |
|----|----|------|----------------------------|---------------|----------|
| a. | 50 | V.F. | 0.0 - 5.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| b. | 50 | V.F. | 5.1 - 10.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| c. | 18 | V.F. | 10.1 - 15.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| d. | 20 | V.F. | 15.1 - 20.0 Foot Depth | \$ _____/V.F. | \$ _____ |
| e. | 30 | V.F. | Greater than 20 Foot Depth | \$ _____/V.F. | \$ _____ |

ITEM 13 - MANHOLE ACCESSORIES

| | | | | | |
|----|----|------|--|-------------|----------|
| a. | 5 | Each | Safety Platform | \$ _____/EA | \$ _____ |
| b. | 10 | Each | Standard Ring and Cover | \$ _____/EA | \$ _____ |
| c. | 10 | Each | Standard Ring and Cover - Traffic Rated | \$ _____/EA | \$ _____ |
| d. | 10 | Each | Boltdown Watertight Ring and Cover | \$ _____/EA | \$ _____ |
| e. | 10 | Each | Hinged (Pamrex or equivalent) Ductile Iron Ring and Cover | \$ _____/EA | \$ _____ |

ITEM 14 - MANHOLE MODIFICATIONS

| | | | | | |
|----|----|------|--|---------------|----------|
| a. | 20 | Each | Adjust Existing Manhole Cover to Grade (In Pavement) | \$ _____/EA | \$ _____ |
| b. | 6 | Each | Adjust Existing Manhole Cover to Grade (Out of Pavement) | \$ _____/EA | \$ _____ |
| c. | 6 | V.F. | Adjust Existing Precast Manhole | \$ _____/V.F. | \$ _____ |
| d. | 6 | V.F. | Adjust Existing Brick Manhole | \$ _____/V.F. | \$ _____ |

ITEM 15 - MANHOLE CONNECTIONS

| | | | | | |
|----|---|------|--------------------------------|-------------|----------|
| a. | 4 | Each | 8-Inch Inside Drop Connection | \$ _____/EA | \$ _____ |
| b. | 4 | Each | 8-Inch Outside Drop Connection | \$ _____/EA | \$ _____ |
| c. | 5 | Each | 8-Inch Core and Boot | \$ _____/EA | \$ _____ |
| d. | 5 | Each | 10-Inch Core and Boot | \$ _____/EA | \$ _____ |
| e. | 5 | Each | 12-Inch Core and Boot | \$ _____/EA | \$ _____ |

ITEM 16 - BORE AND JACK CASING

| | | | | | |
|----|-----|------|--|---------------|----------|
| a. | 100 | L.F. | 16-Inch Steel Casing With 8-Inch DIP Carrier Pipe | \$ _____/L.F. | \$ _____ |
| b. | 100 | L.F. | 18-Inch Steel Casing With 10-Inch DIP Carrier Pipe | \$ _____/L.F. | \$ _____ |
| c. | 100 | L.F. | 20-Inch Steel Casing With 12-Inch DIP Carrier Pipe | \$ _____/L.F. | \$ _____ |

ITEM 17 - FREE BORE / DIRECTIONAL DRILL

| | | | | | |
|----|-----|------|-------------------|---------------|----------|
| a. | 200 | L.F. | With 8-Inch DIP | \$ _____/L.F. | \$ _____ |
| b. | 100 | L.F. | With 10-Inch DIP | \$ _____/L.F. | \$ _____ |
| c. | 100 | L.F. | With 12-Inch DIP | \$ _____/L.F. | \$ _____ |
| d. | 100 | L.F. | With 8-Inch HDPE | \$ _____/L.F. | \$ _____ |
| e. | 100 | L.F. | With 10-Inch HDPE | \$ _____/L.F. | \$ _____ |
| f. | 100 | L.F. | With 12-Inch HDPE | \$ _____/L.F. | \$ _____ |

ITEM 18 - STORM DRAIN PIPE

| | | | | | |
|----|----|------|-------------|---------------|----------|
| a. | 20 | L.F. | 12-Inch RCP | \$ _____/L.F. | \$ _____ |
| b. | 20 | L.F. | 12-Inch CMP | \$ _____/L.F. | \$ _____ |
| c. | 20 | L.F. | 15-Inch RCP | \$ _____/L.F. | \$ _____ |
| d. | 20 | L.F. | 15-Inch CMP | \$ _____/L.F. | \$ _____ |
| e. | 20 | L.F. | 18-Inch RCP | \$ _____/L.F. | \$ _____ |
| f. | 20 | L.F. | 18-Inch CMP | \$ _____/L.F. | \$ _____ |

ITEM 19 - EROSION AND SEDIMENTATION CONTROL

| | | | | | |
|----|-------|------|--|---------------|----------|
| a. | 5 | Each | Construction Exits | \$ _____/EA | \$ _____ |
| b. | 3,000 | L.F. | Reinforced Silt Fence (Type C) | \$ _____/L.F. | \$ _____ |
| c. | 300 | Each | Hay Bale Check Dams | \$ _____/EA | \$ _____ |
| d. | 40 | Each | Stone Check Dams | \$ _____/EA | \$ _____ |
| e. | 20 | Each | Inlet Sediment Traps | \$ _____/EA | \$ _____ |
| f. | 100 | Each | Pigs-in-a-Blanket | \$ _____/EA | \$ _____ |
| g. | 50 | S.Y. | Rip Rap with Filter Fabric Underlay | \$ _____/S.Y. | \$ _____ |
| h. | 500 | C.Y. | Rip Rap | \$ _____/C.Y. | \$ _____ |
| i. | 40 | Each | Box Gabion (Surge Stone Fill with Filter Fabric Underlay) - 3' x 3' x 6' Baskets | \$ _____/EA | \$ _____ |
| j. | 1,000 | L.F. | Tree Protection Fence | \$ _____/L.F. | \$ _____ |

ITEM 20 - VEGETATION RESTORATION

| | | | | | |
|----|-------|------|-------------------------------|---------------|----------|
| a. | 3,000 | S.Y. | Temporary Seeding (All Types) | \$ _____/S.Y. | \$ _____ |
| b. | 3,000 | S.Y. | Permanent Seeding (All Types) | \$ _____/S.Y. | \$ _____ |
| c. | 1,000 | S.Y. | Sod Grassing (All Types) | \$ _____/S.Y. | \$ _____ |
| d. | 1,000 | S.Y. | Hydroseeding | \$ _____/S.Y. | \$ _____ |

ITEM 21 - TEMPORARY STREAM CROSSING – AS APPROVED BY THE ENGINEER

| | | | | | |
|----|---|------|---|-------------|----------|
| a. | 5 | Each | Up To 15-Feet From Top of Bank to Top of Bank | \$ _____/EA | \$ _____ |
| b. | 3 | Each | 15 to 25-Feet From Top of Bank to Top of Bank | \$ _____/EA | \$ _____ |
| c. | 1 | Each | 25 to 40-Feet From Top of Bank to Top of Bank | \$ _____/EA | \$ _____ |
| d. | 1 | Each | Over 40-Feet From Top of Bank to Top of Bank | \$ _____/EA | \$ _____ |

ITEM 22 - TRENCH EXCAVATION AND STABILIZATION – AS ORDERED BY THE ENGINEER

| | | | | | |
|----|-----|------|--|-----------------|----------|
| a. | 500 | C.Y. | Trench Stabilization With Suitable Earth Materials | \$ _____/C.Y. | \$ _____ |
| b. | 500 | C.Y. | Trench Stabilization With Crusher Run | \$ _____/C.Y. | \$ _____ |
| c. | 500 | C.Y. | Trench Stabilization With Crushed Stone (#57) | \$ _____/C.Y. | \$ _____ |
| d. | 100 | C.Y. | Trench Stabilization With M-10 Sand | \$ _____/C.Y. | \$ _____ |
| e. | 250 | C.Y. | Trench Rock Excavation and Removal – Base Cost | \$ 40.00 / C.Y. | \$ _____ |
| f. | 250 | C.Y. | Trench Rock Excavation and Removal – Premium Cost | \$ _____/C.Y. | \$ _____ |

ITEM 23 - EASEMENT CLEARING AND GRUBBING

| | | | | | |
|----|-------|------|--------------------------------------|--------------|----------|
| a. | 2,000 | L.F. | Clear 20-Foot Wide Easement - Light | \$ ____/L.F. | \$ _____ |
| b. | 2,000 | L.F. | Clear 20-Foot Wide Easement - Medium | \$ ____/L.F. | \$ _____ |
| c. | 2,000 | L.F. | Clear 20-Foot Wide Easement - Heavy | \$ ____/L.F. | \$ _____ |

ITEM 24 - DRIVEWAY AND ROAD REPAIR AND REPLACEMENT

| | | | | | |
|----|--------|------|---|--------------|----------|
| a. | 50 | S.Y. | Gravel Driveway Replacement | \$ ____/S.Y. | \$ _____ |
| b. | 60 | S.Y. | Asphalt Driveway Replacement | \$ ____/S.Y. | \$ _____ |
| c. | 100 | S.Y. | Concrete Driveway Replacement – Residential | \$ ____/S.Y. | \$ _____ |
| d. | 100 | S.Y. | Concrete Driveway Replacement - Commercial | \$ ____/S.Y. | \$ _____ |
| e. | 100 | S.Y. | Concrete Sidewalk | \$ ____/S.Y. | \$ _____ |
| f. | 200 | L.F. | Concrete Curb and Gutter | \$ ____/L.F. | \$ _____ |
| g. | 100 | L.F. | Granite Curb | \$ ____/L.F. | \$ _____ |
| h. | 200 | S.Y. | Asphalt Pavement Removal and Replacement (Type A Cut Repair) | \$ ____/S.Y. | \$ _____ |
| i. | 2,000 | S.Y. | Complete Fulton County Standard Utility Cut (Type C Cut Repair) | \$ ____/S.Y. | \$ _____ |
| j. | 10,000 | S.Y. | Road Surface Milling | \$ ____/S.Y. | \$ _____ |
| k. | 10,000 | S.Y. | Road Surface Overlay | \$ ____/S.Y. | \$ _____ |

ITEM 25 - PAVEMENT MARKING AND STRIPING

| | | | | | |
|----|----|------|--|--------------|----------|
| a. | 10 | L.F. | 4- or 5-Inch Std. DOT Striping - Thermoplastic | \$ ____/L.F. | \$ _____ |
| b. | 10 | L.F. | 4- or 5-Inch Std. DOT Striping - Paint | \$ ____/L.F. | \$ _____ |
| c. | 10 | L.F. | Std. DOT Stop Bar - Thermoplastic | \$ ____/L.F. | \$ _____ |
| d. | 10 | L.F. | Std. DOT Stop Bar - Paint | \$ ____/L.F. | \$ _____ |

ITEM 26 - TRAFFIC CONTROL

| | | | | | |
|----|-----|----------|---------------------------|---------------|----------|
| a. | 400 | L.F. | Std. DOT Concrete Barrier | \$ ____/L.F. | \$ _____ |
| b. | 20 | Each/Day | MUTCD Std. Safety Barrel | \$ ____/EA/DY | \$ _____ |
| c. | 80 | Hours | Police Cruiser | \$ ____/HR | \$ _____ |
| d. | 80 | Hours | Certified Flagman | \$ ____/HR | \$ _____ |
| e. | 80 | Hours | Light Plant | \$ ____/HR | \$ _____ |
| f. | 10 | Days | Electronic Message Board | \$ ____/DY | \$ _____ |

ITEM 27 - REMOVE AND REPLACE EXISTING FENCE

| | | | | | |
|----|----|------|------------------------|---------------|----------|
| a. | 20 | L.F. | 4-Foot High Chain Link | \$ _____/L.F. | \$ _____ |
| b. | 20 | L.F. | 6-Foot High Chain Link | \$ _____/L.F. | \$ _____ |
| c. | 20 | L.F. | 6-Foot High Wood | \$ _____/L.F. | \$ _____ |

ITEM 28 - CAST IN PLACE CONCRETE

| | | | | | |
|----|-----|------|----------------------------|---------------|----------|
| a. | 20 | V.F. | Concrete Piers | \$ _____/V.F. | \$ _____ |
| b. | 40 | C.Y. | General Concrete Placement | \$ _____/C.Y. | \$ _____ |
| c. | 100 | C.Y. | Concrete – Flowable Fill | \$ _____/C.Y. | \$ _____ |

ITEM 29 - PROGRAMMABLE ELECTRONIC MARKING DEVICES

| | | | | | |
|----|-----|------|-----------------------------------|-------------|----------|
| a. | 100 | Each | Line Marker Balls - 3M 1424-XR-ID | \$ _____/EA | \$ _____ |
|----|-----|------|-----------------------------------|-------------|----------|

ITEM 30 – CCTV

| | | | | | |
|----|--------|------|---------------------------------------|---------------|----------|
| a. | 10,000 | L.F. | CCTV 8 inch to 20 inch diameter pipe | \$ _____/L.F. | \$ _____ |
| b. | 10,000 | L.F. | CCTV 20 inch to 36 inch diameter pipe | \$ _____/L.F. | \$ _____ |
| c. | 10,000 | L.F. | CCTV Above 36 inch diameter pipe | \$ _____/L.F. | \$ _____ |

ITEM 31 - UTILITY LOCATION – EXCAVATION AND BACKFILL

| | | | | | |
|----|-----|-------|---------------------------|---------------|----------|
| a. | 60 | Hours | Soft Dig Hydro Excavation | \$ _____/HR | \$ _____ |
| b. | 200 | C.Y. | Exploratory Excavation | \$ _____/C.Y. | \$ _____ |

ITEM 32 - CASH ALLOWANCES

| | | |
|----|--|--------------|
| a. | Soils, Concrete, Asphalt, and Materials Testing | \$ 20,000.00 |
| b. | Utility Conflict Resolution | \$ 20,000.00 |
| c. | Large Tree Removal (18-Inch Diameter and Above - Specialty Contractor) | \$ 20,000.00 |
| d. | Bypass Pumping (Specialty Contractor) | \$ 20,000.00 |
| e. | Preblast Survey/Inspection and Blasting Monitoring | \$ 20,000.00 |

ITEM 33 - EMERGENCY SERVICES

The following labor and equipment are included for when the County needs manpower or additional equipment to assist in making emergency repairs other than those specified above as unit price items. Hourly rate items below shall **NOT** apply when work is performed under non-emergency conditions. Once an emergency condition has ended as discussed with the project manager, work will proceed based upon unit price line items under a non-emergency Notice to Proceed. A Notice to Proceed for each phase of the project will indicate emergency or non-emergency project status.

| | | | | | |
|----|----|-------|--|-------------|----------|
| a. | 20 | Hours | Sewer Superintendent | \$ _____/HR | \$ _____ |
| | | | Sewer Crew Truck - Fully Equipped with tools and repair parts including but not limited to pipe saw, wacker-packer, chain saw, and miscellaneous hand tools, including sewer foreman and three laborers. | \$ _____/HR | \$ _____ |
| b. | 20 | Hours | Rubber Tired Front End Loader With Trailer and Operator | \$ _____/HR | \$ _____ |
| c. | 20 | Hours | Rubber Tired Backhoe With Trailer and Operator | \$ _____/HR | \$ _____ |
| d. | 20 | Hours | Excavator With Trailer and Operator | \$ _____/HR | \$ _____ |
| e. | 20 | Hours | Trench Compactor With Operator | \$ _____/HR | \$ _____ |
| f. | 20 | Hours | Mobile Air Compressor With Hoses and Air Tools (Jackhammer, Pavement Breaker, Clay Spade, etc.) | \$ _____/HR | \$ _____ |
| g. | 20 | Hours | | | |

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Contracting Officer and to fully complete all work under this Contract within the agreed upon days specified in a written Notice To Proceed for each project.

The Bidder declares that he understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the items of work be increased, the Bidder proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual quantities will be determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

Fulton County reserves the right to award this contract to one or more qualified vendors. The amount of each contract that is issued will be a portion of the overall bid total based on available funding.

In case of discrepancies between the figures shown in the unit prices and the totals, the unit prices shall apply and the totals shall be corrected to agree with the unit prices. In case of discrepancies between written amounts and figures, written amounts shall take precedence over figures and the sum of all Bid extensions (of unit prices) plus lump sum items shall take precedence over BID TOTAL.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten (10) days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

Enclosed is a Bid Bond in the approved form, in the sum of: _____
_____ Dollars

(\$ _____) according to the conditions of "Instructions to Bidders" and provisions thereof.

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

- ADDENDUM # _____ DATED _____

Part 1 General**(REVISED 11/26/2013)****1.01 Scope**

- A. The Bid lists each item of the Project for which payment will be made. **No payment will be made for any items other than those listed in the Bid.**
- B. Required items of work and incidentals necessary for the satisfactory completion of the work which are not specifically listed in the Bid, and which are not specified in this Section to be measured or to be included in one of the items listed in the Bid, shall be considered as incidental to the work. All costs thereof, including Contractor's overhead costs and profit, shall be considered as included in the unit prices bid for the various Bid items. The Contractor shall prepare the Bid accordingly.
- C. Work includes furnishing all labor, equipment, tools and materials, which are not furnished by the Owner and performing all operations required to complete the work satisfactorily, in place, as specified and as indicated on the Drawings.

1.02 Descriptions

- A. Measurement of an item of work will be by the unit indicated in the Bid.
- B. Final payment quantities shall be determined from actual quantities installed and measured in the field.
- C. Payment will include all necessary and incidental related work not specified to be included in any other item of work listed in the Bid.
- D. Unless otherwise stated in individual sections of the Specifications or in the Bid, or as approved in writing by the Engineer prior to beginning the work, no separate payment will be made for any item of work, materials, parts, equipment, supplies or related items required to perform and complete the work. The costs for all such items required shall be included in the price bid for item of which it is a part. In the event that the Engineer requests Work that is agreed by both the Engineer and the Contractor as not included in the Bid, that item of work will be paid for at actual cost (invoices required) plus 10% markup.
- E. Payment will be made by extending unit prices multiplied by quantities provided and then summing the extended prices to reflect actual work. Such price and payment shall constitute full compensation to the Contractor for furnishing all plant, labor, equipment, tools and materials not furnished by the Owner and for performing all operations required to provide to the Owner the entire Project, complete in place, as specified and as indicated on the Drawings.
- F. "Products" shall mean materials or equipment permanently incorporated into the work.
- G. "Provide" shall mean furnish and install.

1.03 Non Payments

- A. No separate payment shall be made for the restoration of developed property and the cost shall be included in the overall prices for the execution of the work unless specifically noted otherwise.

- B. No separate payment shall be made for excavation, disposal of rubbish and debris, pipe bedding, backfill, dewatering of trench, repair of damaged properties. All testing required for the execution of the work shall be done as part of the price for the item involved.
- C. No separate payment shall be made for any traffic control, work area protection, recording, safety measures, set-up of equipment and set-up of staging area except as indicated below. Payment for these items shall be part of the unit price bid for each particular item of work.
- D. No separate payment shall be made for providing detail surveys needed for construction. The Contractor shall be responsible in providing further survey necessary to complete the Work. The Contractor shall carefully preserve the established points, and in case of willful or careless destruction, the Contractor shall be responsible for the costs of reestablishing the bench marks, reference points and stakes.

1.04 Contractor Mobilization

All costs associated with mobilization of all required resources, a one time cost for each non-emergency project assigned by the Owner, shall be included in the unit prices bid for CONTRACTOR MOBILIZATION, based on the project sizes listed in the Bid.

1.05 Sewers and Accessories

- A. Existing Utilities and Obstructions
 - 1. Horizontal Conflict: Payments for conflicts with existing utilities shall be made only where additional manholes, fittings, and/or additional lengths of pipe are approved by the Engineer. Said payment shall be made at the unit prices in the Bid. No other payment will be made for any delay or extra cost encountered by the Contractor due to protection, avoidance or relocation of existing utilities, mains or services or changing the horizontal alignment of the sewer.
 - 2. Vertical Conflict: Where authorized by the Engineer, payment for additional depth of cut required to avoid vertical conflicts shall be made at the unit prices bid for sewer line. No payment will be made for relocation of existing utilities except as authorized by the Engineer..
- B. Location and Grade: No separate payment shall be made for survey work performed by or for the Contractor in the establishment of reference points, bench marks, cut sheets, limits of right of way or easement, including their restoration, as well as centerline or baseline points.
- C. Construction Along Highways, Streets and Roadways: No separate payment shall be made for traffic control or maintaining highways, streets, roadways and driveways, except as authorized by the Engineer.
- D. Ductile Iron Pipe Gravity Sewer
 - 1. Payment for ductile iron pipe gravity sewer shall be made at the unit price bid for GRAVITY SEWER, for the quantity and type provided at the appropriate depth. Payment will be made at the one unit price for the actual depth of the sewer line.

2. Measurement for payment at the unit price for GRAVITY SEWER shall be made along the centerline of the pipe, through fittings, from centerline of manhole to centerline of manhole or to inside face of structure wall penetrated. Depth of cut shall be measured from pipe invert to ground level at pipe centerline. Cut sheets prepared by the Contractor and approved by the Engineer shall be the basis for payment.
 3. The unit price bid for GRAVITY SEWER shall include all costs for installation of the sewer as required including, but not limited to, materials, labor, excavation, dewatering, shoring, bedding, haunching, backfill, compaction, clean-up, testing, and all other related items not listed as separate items in the Bid.
 4. Payment for pipe INSTALLED IN STEEL CASING will be made in addition to payment for gravity sewer installed at the appropriate depth. The unit price bid for pipe INSTALLED IN STEEL CASING shall include all additional costs associated with providing the appropriate size steel casing pipe, spacers, grout, brick, as required for the complete installation of pipe in casing via open-cut installation. All costs associated with installation of the sewer line, including excavation, dewatering, etc. shall be included in the unit price bid for GRAVITY SEWER.
 5. No payment shall be made for sections of pipe which are not installed.
 6. No additional payment shall be made for replacement of defective materials.
 7. No additional payment will be made for maintaining or stopping flow while placing the new sewer in service.
 8. No payment shall be made for sections of pipe which have not passed required tests, or if the area has not been cleaned up to the satisfaction of the Engineer.
 9. No separate payment will be made for cutting and beveling pipe.
 10. The cost of all fittings shall be included in the price bid for pipe.
- E. Clean up and Testing: No separate payment shall be made for clean up and testing.
- F. Pipe Bursting
1. Measurement for payment at the unit price for PIPE BURSTING shall be made along the centerline of the pipe from centerline of manhole to centerline of manhole or to inside face of structure wall penetrated.
 2. The unit price bid for PIPE BURSTING shall include all costs associated with installing a new HDPE line by PIPE BURSTING as listed in the Bid including, but not limited to, all materials, labor, tools, excavation, backfill, compaction, grouting and all incidental items required for a complete installation. No separate payment shall be made for launch pits or receiving pit.

- G. HDPE Pipe SlipLining
1. Measurement for payment at the unit price for HDPE PIPE SLIPLINING shall be made along the centerline of the pipe from centerline of manhole to centerline of manhole or to inside face of structure wall penetrated. The unit price bid for HDPE PIPE SLIPLINING shall include all costs associated with installing HDPE PIPE SLIPLINING as listed in the Bid including, but not limited to, all materials, labor, tools, excavation, backfill, compaction, grouting and all incidental items required for a complete installation.
- H. CURED-IN-PLACE Lining
1. Measurement for payment at the unit price for CURED-IN-PLACE PIPE LINING shall be made along the centerline of the pipe from centerline of manhole to centerline of manhole for actual lengths of new pipe installed. No payment shall be made for "down-tube" or dry felt used in conjunction with an inversion. The unit price bid for CURED-IN-PLACE PIPE LINING shall include all costs associated with installing CURED-IN-PLACE PIPE LINING as listed in the Bid including, but not limited to, all materials, labor, tools, excavation, backfill, compaction, grouting and all incidental items required for a complete installation.
- I. Sewer Cleaning
1. No payment shall be made for normal cleaning of sewers as defined in Section 02731, paragraph 3.04 I
- J. Manhole Rehabilitation
1. Measurement for payment at the unit price for MANHOLE REHABILITATION shall be made from the invert to the base of the manhole frame for each method of rehabilitation bid at the price for the depth range listed.

1.06 Sewer Service Connections

- A. The unit price bid for 6-INCH DIP SEWER SERVICE CONNECTIONS shall include all costs associated with installing a service connection as listed in the Bid including, but not limited to, all materials, labor, tools, excavation, backfill, compaction, manhole coring, grouting, manhole boot, fittings including wye or tee, and all incidental items required for a complete installation. No additional payment will be made for plugging the fitting or for cutting an existing sewer pipe to locate the fitting.
- B. Measurement for payment for service connections will be made along the centerline of the pipe, through fittings, from centerline of manhole or pipe to the inside face of the clean-out box.

- C. The unit price bid for CLEAN-OUT ASSEMBLY shall include, but is not limited to, all materials, labor, tools, fittings, vertical pipe, cleanout, cast iron box and cover, and all incidental items as required to provide a complete clean-out assembly.
- D. Payment for re-establishing sewer service connections shall be made under the unit prices bid for SERVICE LINE RECONNECTIONS.

1.07 Precast Concrete Manholes and Accessories

- A. The unit price bid for 4-FOOT DIAMETER PRECAST MANHOLES, at the depths listed in the Bid, shall include all costs associated with construction of a complete manhole on a new sewer line, including excavation, shoring, dewatering, backfilling, compaction, crushed stone bedding, concrete slab, precast base, riser sections, cone or flat top, coring, rubber boots, grouting, sleeves, concrete, invert, mastic sealant, brickwork, mortar, connection of pipes to the manhole, vacuum testing, and all incidental items required to complete the installation.
- B. The unit price bid for 4-FOOT DIAMETER DOGHOUSE MANHOLES, at the depths listed in the Bid, shall include all costs associated with construction of a complete manhole on an existing sewer line, including excavation, shoring, dewatering, backfilling, compaction, crushed stone bedding, concrete slab, base, riser sections, cone or flat top, coring, rubber boots, grouting, concrete, invert, diversion of flow, cutting existing pipe, connecting pipes to manhole, mastic sealant, brickwork, mortar, vacuum testing, and all incidental items required to complete the installation.
- C. Measurement for payment at the unit price for MANHOLES shall be made from the invert to the top of the top section. Payment for manholes shall be made at the unit price bid for MANHOLES, for the type provided at the appropriate depth. Payment will be made at the one unit price for the actual depth of the manhole.
- D. Manhole Accessories
 - 1. The unit price bid for SAFETY PLATFORM shall include all costs associated with installation of a safety platform in a new precast concrete manhole. Payment for SAFETY PLATFORM will be in addition to payment for PRECAST MANHOLE.
 - 2. The unit price bid for MANHOLE RING AND COVER shall include the cost of providing the appropriate type ring and cover on a new manhole or new riser section including materials, labor, grouting, brick and mortar, minor grade adjustments (up to three inches either way vertically) and all incidental items required to complete the installation.
- E. Manhole Modifications
 - 1. The unit price bid for ADJUST EXISTING MANHOLE COVER TO GRADE shall include all costs associated with adjusting an existing manhole cover by up to three inches using steel or concrete adjusting rings or brick and mortar, as ordered by the Engineer, including pavement repair if applicable. Measurement for payment will be made based on the actual quantity of manhole covers adjusted.
 - 2. The unit price bid for ADJUST EXISTING PRECAST MANHOLE shall include all costs associated with raising or lowering an existing manhole

- including, but not limited to, excavation, shoring, dewatering, backfilling, compaction, removal and replacement of existing cone or flat top, removal or addition of riser sections, disposal of removed materials, grouting, steps, brickwork, mortar, mastic and all incidental items required to complete the installation. In the event that a new cone or flat top section is required, it will be paid for at the unit price bid for 4-FOOT DIAMETER PRECAST MANHOLE.
3. The unit price bid for ADJUST EXISTING BRICK MANHOLE shall include all costs associated with raising or lowering an existing manhole including, but not limited to, excavation, shoring, dewatering, backfilling, compaction, removal or addition of brick, disposal of removed materials, grouting, steps, mortar, and all incidental items required to complete the installation.
 4. Payment for pavement patching associated with ADJUST EXISTING MANHOLE shall be paid for at the unit price bid for FULTON COUNTY STANDARD UTILITY CUT.
 5. Measurement for payment for ADJUST EXISTING MANHOLE will be made from the original manhole cover elevation to the proposed elevation of the new manhole cover. Vertical distance will be measured to the nearest tenth of a foot.
- F. Manhole Connections: The unit price bid for MANHOLE CONNECTIONS shall include all costs associated with connecting a new sewer line to an existing manhole, including drop connection fittings, tees, or core and boot as appropriate for the type of connection, flow diversion, penetration of manhole wall, sealing connection, forming new invert, and all incidental items required to complete the connection. Costs for excavation, shoring, dewatering, backfilling, compaction, and bedding shall be included in the unit price bid for GRAVITY SEWER.
- G. Measurement for payment for drop connection vertical pipe shall be made from the invert of the upstream sewer to the invert of the manhole. Payment for the measured vertical feet of pipe will be made for the unit price bid for GRAVITY SEWER. Inside drop connection vertical piping will be paid for at the 0.0 to 6.0 foot depth price for gravity sewer. Outside drop connection vertical piping will be paid for based on the actual depth of the of the drop connection.

1.08 Bore and Jack Casings

- A. The unit price bid for BORE AND JACK CASING shall include all costs associated with installation of the casing pipe and carrier pipe, including but not limited to excavation, shoring, dewatering, backfilling, compaction, steel casing pipe, ductile iron sewer pipe, spacers, grout, brick, and other accessories, for installing the pipe complete in place.
- B. Payment for casing shall be made only at the completion of all work specified for the casing installation. No partial payment shall be made for the construction of the casing without carrier pipe.
- C. Measurement for payment shall be made along the centerline of the pipe line to the limits of bore and jack as ordered by the Engineer.
- D. Casing pipe may be included in Partial Payment Requests as stored materials, if, in the opinion of the Engineer, the casing pipe is stored and properly protected at

the Project site. Casing pipe which has been properly installed, but has not yet been paid for as installed casing, may also be included as stored materials.

- E. Payment for pipe in casing shall be made only at the completion of all work specified for the pipe installation. Payment for pipe in the casing shall be made only at the one unit price bid for BORE AND JACK CASING.
- F. In the event that rock is encountered during the installation of the pipe casing which, in the opinion of the Engineer, cannot be removed through the casing then the Engineer may authorize the Contractor to complete the crossing by another method via a change order.
- G. No additional payment shall be made for rock excavation through the casing.
- H. The unit price bid shall assume that all jack and bore casing installations exceed 60 feet in length.

1.09 Free Bore / Directional Drill

- A. Payment for installation of sewer pipe via either free bore or directional drill installation methods shall be made at the unit price bid for FREE BORE / DIRECTIONAL DRILL for the appropriate size and type of pipe installed to the limits ordered by the Engineer. The unit price bid shall include all costs for construction of the pipe via free bore or directional drilling methods in lieu of open cut, including but not limited to excavation, shoring, dewatering, backfilling, compaction, carrier pipe, and other accessories, for installing the pipe complete in place.
- B. The unit price bid for FREE BORE / DIRECTIONAL DRILL shall include all costs for free bore failures and the subsequent bore and jack installation if required as well as for bore and jack casing if the Contractor elects to provide the casing in lieu of free bore.
- C. Measurement for payment shall be made along the centerline of the pipe installed, to the limits for free bore or directional drill ordered by the Engineer.

1.10 Storm Drain Pipe Installation

- A. The unit price bid for STORM DRAIN PIPE shall include all costs associated with the installation or replacement of the appropriate size and type of storm drain piping associated with construction of a gravity sewer, where directed by the Engineer. Costs for excavation, shoring, dewatering, backfilling, compaction, and bedding shall be included in the unit price bid for GRAVITY SEWER.
- B. Measurement for payment will be made along the centerline of the storm drain pipe installed.
- C. No separate payment will be made for support of existing pipe when installing new sewer line over or under existing storm water piping. All costs for support shall be included in the unit price bid for GRAVITY SEWER.
- D. Costs for removing and replacing existing storm water pipe for ease of construction when installing new sewer line shall be included in the unit price bid for GRAVITY SEWER. Payment for storm drain pipe will only be made where removal or replacement is approved or ordered by the Engineer prior to removal.

1.11 Erosion and Sedimentation Control

- A. General
1. No separate payment shall be made for erosion and sedimentation controls, except as noted below. All other erosion and sedimentation control costs shall be included in the unit price bid for the item to which it pertains.
 2. No payment will be made for any portion of the Project for which temporary erosion and sedimentation controls are not properly maintained.
 3. Quantities for payment shall be based upon actual quantity constructed by the Contractor.
- B. Construction Exits: All costs for construction exits, including installation, maintenance, repair, and removal, shall be included in the unit price bid for CONSTRUCTION EXITS. The unit price bid shall include geotextile underliner, stone, and all incidental costs associated with maintaining a construction exit to Fulton County standards.
1. If the action of the construction vehicles traveling over the gravel pad does not sufficiently remove mud and debris, the vehicle tires shall be washed prior to allowing vehicles to enter public right-of-way. No additional payment will be made for the cost of washing tires.
 2. No payment will be made for construction exits that are improperly constructed or use materials that are not approved.
- C. Reinforced Silt Fence: All costs for Type C silt fence, where ordered by the Engineer, including installation, maintenance, repair, replacement, and removal, shall be included in the unit price bid for REINFORCED SILT FENCE.
- D. Hay Bale Check Dams: All costs for hay bale check dams, including hay bales, necessary earthwork, staking, periodic maintenance and repair, and removal of sediment and hay bales following establishment of permanent erosion control measures shall be included in the unit price bid for HAY BALE CHECK DAMS.
- E. Stone Check Dams: All costs for stone check dams, including stone, geotextile underliner, necessary earthwork, periodic maintenance and repair, and removal of sediment and stone following establishment of permanent erosion control measures shall be included in the unit price bid for STONE CHECK DAM. Measurement for payment will be made to the limits allowed in accordance with the Standard Details and Specifications..
- F. Inlet Sediment Traps: All costs for temporary inlet sediment traps (silt box), including installation, maintenance, repair and removal, shall be included in the unit price bid for INLET SEDIMENT TRAPS.

- G. Pigs-in-a-Blanket: All costs for pigs in a blanket, including installation, maintenance, repair and removal, shall be included in the unit price bid for PIGS-IN-A-BLANKET.
- H. Rip Rap With Filter Fabric Underlay: All costs for rip rap, including filter fabric, installation, maintenance, repair and removal, as required by the Standard Details and Specifications, or as directed by the Engineer, shall be included in the unit price bid for RIP RAP WITH FILTER FABRIC UNDERLAY.
- J. Rip Rap: All costs for rip rap, excluding RIP RAP WITH FILTER FABRIC UNDERLAY, installation, maintenance, repair and removal, as required by the Standard Details and Specifications, or as directed by the Engineer, shall be included in the unit price bid for RIP RAP.
- K. Box Gabion – 3’x3’x6’ Baskets: All costs for box gabions, including stone, wire mesh, stakes, anchors, filter fabric, assembly of box gabion, placement, excavation, backfill, compaction, and all incidental costs shall be included in the unit price bid for BOX GABION.
- L. Tree Protection Fence: All costs for tree protection fence, also known as orange mesh safety fence, including installation, maintenance, repair and removal, shall be included in the unit price bid for TREE PROTECTION FENCE.

1.12 Vegetation Restoration

- A. Temporary Seeding: Temporary seeding and mulching shall be applied to all disturbed area to be left exposed for a period greater than 14 days, or as ordered by the Engineer. The unit price bid for TEMPORARY SEEDING shall include all costs associated with spreading fast growing seed, mulching, watering, maintenance and repair until permanent grassing is established.
- B. Permanent Seeding: All costs for permanent seeding, including fine grading, raking, soil preparation (removal of rocks and other objectionable materials), sowing the appropriate type of grass seed, fertilizing, mulching, watering, temporary protective measures, maintenance and repair until permanent grassing is established, shall be included in the unit price bid for PERMANENT SEEDING. Permanent seed will be applied only after final grading and dress-up of disturbed area have been completed to the satisfaction of the Engineer.
- C. Sod Grassing: Where ordered by the Engineer, sod shall be provided at the unit price bid for SOD GRASSING for any type. All costs for proper installation, including preparation of surface, installation, rolling, compacting, watering, maintenance, repair, and any temporary measures required to protect the sod until establishment, shall be included in the unit price bid for SOD GRASSING.
- D. Hydroseeding: All costs for hydroseeding, including preparation of surface, maintenance, repair, and any temporary measures required to protect the area until establishment, shall be included in the unit price bid for HYDROSEEDING.
- E. In no case shall any one area be paid more than once for temporary grassing or for permanent grassing.
- F. If an area is temporarily grassed, and as directed by the Engineer the area is left that way permanently, no additional payment will be made for permanent grassing.

- G. Measurement for payment will be made by square yard, along the sewer centerline, to the widths allowed by the Standard Details and Specifications.

1.13 Temporary Stream Crossing

- A. Temporary Stream Crossing: All costs for constructing temporary stream crossings, whether for contractor access to the work or for work crossing streams, shall be included in the unit price bid for TEMPORARY STREAM CROSSING. Stream crossings All labor and materials including temporary culverts, stone, filter fabric underlay, check dams, bypassing, necessary earthwork, periodic maintenance and repair, and removal of sediment and all materials placed by the Contractor, following the end of the usefulness of the temporary crossing, shall be included in the unit prices bid for TEMPORARY STREAM CROSSING.
- B. Stream Crossings shall be preapproved by the Fulton County project manager and constructed as shown in the Standard Details and Specifications, limited to 10 feet upstream and 10 feet downstream from top of trench excavation and from five feet beyond top of bank, across stream or ditch bank and bottom, to five feet beyond top of bank. Any other areas at streams or ditches disturbed by the Contractor, which may require rip rap, shall be rip rapped at no additional cost to the Owner.

1.14 Trench Excavation and Stabilization

- A. No separate or additional payment will be made for any special or unique method, means, techniques or equipment necessary for the Contractor's compliance with the Specifications, regulatory requirements, permits, laws or regulations which govern this Project.
- B. Trench Excavation: No separate payment will be made for trench excavation. All costs shall be included in the unit price bid for the item to which it pertains at the appropriate depth.
- C. Sheet piling, Bracing and Shoring: No separate payment will be made for providing any sheet piling, bracing and shoring. All costs shall be included in the unit price bid for the item to which it pertains at the appropriate depth.
- D. Dewatering Excavations: All costs of equipment, labor and materials required for dewatering shall be included in the price bid for the item to which it pertains.
- E. Trench Foundation and Stabilization
 - 1. No payment for trench stabilization shall be authorized until after the trench has been dewatered. If the pipe is installed in an inadequately prepared trench bottom, the Engineer shall notify the Contractor in writing of the deficiency and will not authorize payment for that portion of that length of pipe which was improperly installed.
 - 2. Payment for trench stabilization shall be made on the basis of the amount authorized and the unit price bid for TRENCH STABILIZATION. Payment shall include all costs for the removal and disposal of the unsuitable material and replacement with the materials listed in the Bid including filter fabric. No additional payment will be made for material required for specified bedding.

- F. Bedding and Haunching
1. The unit price bid for pipe for GRAVITY SEWER shall include excavation of the trench to the depth below the pipe necessary to provide specified bedding and to lay the sewer to grade. Measurements for payment will be made only to the pipe invert.
 2. No separate payment will be made for material used to provide specified bedding. The cost of all bedding materials shall be included in the unit price bid for the item to which it relates, except for trench stabilization.
 3. No additional payment will be made for improved bedding required to compensate for over excavation of the trench.
- G. Trench Rock Excavation
1. Rock excavation shall be paid for in addition to payment for normal pipe excavation accounted for in the unit price bid for gravity sewer. Payment will be made for the measured quantity of rock excavated, at the sum of the unit prices for Trench Rock Base Cost and Trench Rock Premium Cost if applicable.
 2. The unit price for Trench Rock Base Cost is for the normally anticipated cost of rock excavation, the cost of additional bedding and backfill material as specified and all costs incidental thereto.
 3. The unit price bid for Trench Rock Premium Cost shall be for all additional costs for rock excavation which, in the opinion of the Contractor, are in excess of the Base Cost, including but not limited to extra blasting protection, closer grouping of blasting holes, more detonator caps, more caution, etc. The Contractor shall not bid less than zero (bid a deduct) for the Trench Rock Premium Cost. Any Bids containing a deduct will be declared non-responsive and rejected by the Owner.
 4. The maximum allowable volume of rock excavation for payment shall be based on a trench width equal to the outside diameter of the pipe barrel plus 18 inches, but not less than 36 inches, and depth of rock on the pipe centerline, from the top of the rock to the bottom of the rock or the specified bottom of the trench, whichever has the higher elevation.
 5. The Engineer must be given reasonable notice to measure all rock. Payment will not be made for excavated rock that was not measured and approved by the Engineer prior to removal.
 6. No allowance shall be made for excavating to extra widths for construction of manholes or other appurtenances, for excavating to sloping sides, or for excavations made necessary by the physical limitations of the Contractor's equipment. Cost of such additional rock excavation shall be included in the unit price bid for the item to which it pertains.
 7. Payment for blasting monitoring shall be made from the BLASTING MONITORING cash allowance. A fee must be agreed upon by the Engineer prior to the Contractor employing an independent, qualified specialty subcontractor to monitor the blasting. If the Contractor employs

the specialty subcontractor prior to the Engineer's approval of the fee, all such costs are subject to non reimbursement.

- H. Initial Backfill
 - 1. No separate payment shall be made for initial backfill.
 - 2. No separate payment shall be made for drying out the initial backfill material in order to meet the compaction requirements.
 - 3. No separate payment shall be made for the adding of moisture to the initial backfill materials in order to meet the compaction requirements.
 - 4. No separate payment shall be made for providing select material if the insitu material cannot meet the compaction requirements.
- I. Concrete Encasement: Payment for concrete encasement shall be at the unit price in the Bid for GENERAL CONCRETE PLACEMENT.
- J. Final Backfilling
 - 1. No additional payment will be made for additional material when excavated materials are used.
 - 2. No separate payment shall be made for drying out the final backfill material in order to meet the compaction requirements.
 - 3. No separate payment shall be made for the adding of moisture to the final backfill materials in order to meet the compaction requirements.
 - 4. No additional payment will be made for providing select material if the insitu material cannot meet the compaction requirements.
- K. Additional Material: No separate payment will be made for additional earth or fill materials imported to the Project site.

1.15 Easement Clearing and Grubbing

- A. The unit price bid for EASEMENT CLEARING AND GRUBBING shall include all costs associated with clearing a 20-foot wide easement of the specified type, as approved by the Engineer prior to clearing, including but not limited to removal and disposal of trees, stumps, roots, undergrowth, debris, or other objectionable matter.
- B. LIGHT CLEARING shall be defined by an easement that is dense with shrubs, brush, and trees up to one foot in diameter.
- C. MEDIUM CLEARING shall be defined by an easement that is dense with shrubs, brush, and trees averaging one to two feet in diameter.
- D. HEAVY CLEARING shall be defined by an easement that is dense with shrubs, brush, and trees averaging over two feet in diameter, including specimen trees.
- E. The cost of moving and reestablishing landscape features, including labor and materials, shall be included in the unit price bid for the item to which it pertains.

- F. No payment will be made for clearing and grubbing in grassed areas and in areas with non-established vegetation. The costs associated with such clearing shall be included in the unit price bid for the item to which it pertains.

1.16 Driveway and Road Repair and Replacement

A. General:

1. Payment for removing and replacing driveway and road asphalt and concrete pavement will be made based on the measured quantity replaced at the unit price Bid. The unit price bid shall include all costs associated with cutting, removing, disposing of existing pavement, replacing and compaction of base, subbase, concrete, asphalt, and all related items as required, including providing select backfill if necessary, all traffic control and temporary measures for maintaining traffic.
 2. Payment shall be made only for that length for which the pipeline is constructed underneath or within four feet of the edge of the pavement to a width as shown in the Standard Details and Specifications.
 3. Payment for soils testing shall be made from the SOILS, CONCRETE, ASPHALT, AND MATERIALS TESTING cash allowance. No payment shall be made for tests that fail to verify required results.
 4. No additional payment will be made for removing and replacing damaged adjacent pavement.
 5. No additional payment will be made for saw cutting of driveways or curbs.
- B. Payment for removing and replacing gravel driveways will be made based on the measured quantity replaced at the unit price Bid for GRAVEL DRIVEWAY. The unit price bid shall include all costs associated with removing, replacing, and compacting a minimum of four-inches of GAB or #57 stone, and all related items as required for a complete driveway repair, including all traffic control and temporary measures for maintaining access. Payment will be made for the length for which the pipeline is constructed underneath the driveway and for the width as limited by the Standard Details and Specifications.
- C. Payment for removing and replacing asphalt driveways will be made based on the measured quantity replaced at the unit price Bid for ASPHALT DRIVEWAY. The unit price bid shall include all costs associated with cutting, removing existing pavement, disposing of removed materials, compacting and placing a minimum of four inches of GAB and one and a half inches of Type E asphalt, and all related items as required for a complete driveway repair, including all traffic control and temporary measures for maintaining access. Payment will be made for the length for which the pipeline is constructed underneath the driveway and for the width as limited by the Standard Details and Specifications.
- D. Payment for removing and replacing concrete driveways will be made based on the measured quantity replaced at the unit price Bid for CONCRETE DRIVEWAY - RESIDENTIAL. The unit price bid shall include all costs associated with cutting, removing existing concrete, disposing of removed materials, compacting sub base, and placing a minimum of four inches concrete with reinforcing steel, and all related items as required for a complete driveway repair, including all traffic control and temporary measures for maintaining access. Payment will be made

for the length for which the pipeline is constructed underneath the driveway and for the width to the nearest construction joint on either side of the new pipeline.

- E. Payment for removing and replacing asphalt driveways will be made based on the measured quantity replaced at the unit price Bid for CONCRETE DRIVEWAY - COMMERCIAL. The unit price bid shall include all costs associated with cutting, removing existing concrete, disposing of removed materials, compacting sub base, and placing a minimum of six inches concrete with reinforcing steel, and all related items as required for a complete driveway repair, including all traffic control and temporary measures for maintaining access. Payment will be made for the length for which the pipeline is constructed underneath the driveway and for the width to the nearest construction joint on either side of the new pipeline.
- F. Payment for removal and replacement of sidewalk shall be made at the unit price bid for CONCRETE SIDEWALK. No payment for sidewalk shall be made where the centerline of the new pipe is more than 5-feet from the closest edge of the sidewalk.
- G. Payment for removal and replacement of curb and gutter shall be made at the unit prices bid for CONCRETE CURB AND GUTTER or for GRANITE CURB as appropriate. No payment for curb and gutter shall be made where the centerline of the new pipe is more than 5-feet from the closest edge of the curb and gutter.
- H. Payment for removal and replacement of asphalt pavement (Type A Cut Repair), where the Fulton County Standard Utility Cut (Type C Cut Repair) is not required, shall be made at the unit price bid for ASPHALT PAVEMENT REMOVAL AND REPLACEMENT. The unit price bid shall include all costs associated with a Type A Cut Repair, including cutting, removing existing pavement, disposing of removed materials, compacting and placing a minimum of six inches of crusher run and one and a half inches of Type E asphalt, and all related items as required for a complete repair, including all traffic control and temporary measures. Payment will be made for the length for which the pipeline is constructed underneath the roadway and for the width as limited by the Standard Details and Specifications, or as approved by the Engineer.
- I. Payment for Fulton County Standard Utility Cut (Type C Cut Repair) shall be made at the unit price bid for COMPLETE FULTON COUNTY STANDARD UTILITY CUT. The unit price bid shall include all costs associated with cutting, removing existing pavement, disposing of removed materials, eight inch concrete cap, bituminous tack coat, and one and a half inches of Type E asphalt, and all related items as required for a complete repair, including all traffic control and temporary measures including road plates. Payment will be made for the length for which the pipeline is constructed underneath the roadway and for the width as limited by the Standard Details and Specifications, or as approved by the Engineer.
- J. No separate or additional payment shall be made for temporary measures required to make the road or driveway surface passable, including backfilling the top of the trench temporarily with crusher run or granular material or placing a temporary asphalt topping.
- K. Payment for milling shall be made at the unit price bid for ROAD SURFACE MILLING. The unit price bid shall include all costs associated with milling one and a half inches of existing pavement and disposing of all waste materials and

all related items as required. Measurement shall be made based on actual area milled, as approved by the Engineer.

- L. Payment for overlay shall be made at the unit price bid for ROAD SURFACE OVERLAY. The unit price bid shall include all costs associated with overlaying a road surface with a bituminous tack coat and a minimum of one and a half inches of Type E asphalt, and all related items as required. Measurement shall be made based on actual area overlaid, as approved by the Engineer.

1.17 Pavement Marking and Striping

- A. The unit price bid for PAVEMENT MARKING AND STRIPING shall include all costs associated with applying standard DOT striping and paint as listed in the Bid and as ordered by the Engineer. All required materials, labor, tools, equipment, and traffic control shall be included in the unit price bid.

1.18 Traffic Control

- A. All costs for providing traffic control in compliance with the Manual on Uniform Traffic Control Devices (MUTCD) and Georgia Department of Transportation (GDOT) specifications shall be included in the unit price bid for the item to which it pertains. No additional payment will be made for complying with MUTCD or GDOT requirements.
- B. Payment for TRAFFIC CONTROL as indicated in the Bid will be made only for additional traffic control devices as ordered by the Engineer.
- C. The unit price bid for STANDARD DOT CONCRETE BARRIER shall include all costs for providing, installing and removing a standard DOT concrete barrier, as directed by the Engineer.
 - 1. No excavation in or near roadways will be left open over night. Therefore, all concrete barriers will be required to be removed from the roadway and moved to a location where vehicular and pedestrian traffic are not obstructed. The cost of moving the barriers as such shall be included in the unit price bid.
 - 2. Measurement for payment shall be made based on the actual linear footage of barrier installed, per day, approved by the engineer and serving the purpose for which it was intended. Payment will not be made for excess barriers stored by the Contractor in any location.
- D. The unit price bid for MUTCD STANDARD SAFETY BARREL shall include all costs for providing, installing and removing a standard MUTCD safety barrel, as directed by the Engineer. Only **safety barrels directed by the Engineer**, in addition to those required by the MUTCD and GDOT, shall be paid for separately.
- E. The unit price bid for POLICE CRUISER shall include all costs for providing a police cruiser for additional traffic control. Payment will be made for hours spent on site, which may be a portion of a standard work day. Payment will be made only for hours documented and approved by the Engineer.

- F. The unit price bid for CERTIFIED FLAGMAN shall include all costs for providing a flagman for additional traffic control, as directed by the Engineer, in addition to the requirements of MUTCD and GDOT.
1. The flagman shall be certified and dedicated to maintaining and directing traffic flow. An individual who works part time as a flagman and part time as a laborer or acts in dual capacity will not be approved for payment under this item. Proof of certification may be required by the Engineer prior to acceptance for payment.
 2. Payment will be made for hours spent on site performing dedicated flagman duties, which may be a portion of a standard work day. Payment will be made only for hours documented and approved by the Engineer.
- G. The unit price bid for LIGHT PLANT shall include all costs for providing a light plant, including generator and lighting system, for night work, as directed by the Engineer.
- H. The unit price bid for ELECTRONIC MESSAGE BOARD shall include all costs for providing an electronic message board, as directed by the Engineer.

1.19 Remove and Replace Existing Fence

- A. The unit price bid for REMOVE AND REPLACE EXISTING FENCE shall include all costs associated with removing and replacing an existing fence of the type and material listed in the Bid, including disposing of waste materials, restoration of site to original condition, and all other associated work for a complete installation.

1.20 Cast in Place Concrete

- A. The unit price Bid for CONCRETE PIERS shall include all costs associated with installation of concrete piers under sewer line including excavation, backfill, compaction, dewatering, drilling grout holes, grouting dowels in place, concrete, reinforcement, and all other work required for pier installation. Measurement for vertical height of the piers shall include the thickness of the footing.
- B. The cost of services of the consulting soil and foundation engineer will be paid by the Contractor from the SOILS, CONCRETE, ASPHALT, AND MATERIALS TESTING cash allowance.
- C. The unit price bid for GENERAL CONCRETE PLACEMENT shall include all costs of placing general concrete as directed by the Engineer. General concrete placement shall only be used for concrete in addition to items listed elsewhere in the Bid.
- C. The unit price bid for CONCRETE – FLOWABLE FILL shall include all costs of filling abandoned pipes with concrete as directed by the Engineer. Flowable fill shall only be used for concrete in addition to items listed elsewhere in the Bid.

1.21 Programmable Electronic Marking Devices

- A. The unit price bid for PROGRAMMABLE ELECTRONIC MARKING DEVICES shall include the cost of providing the marking devices including programmer/locator as specified, including programming the devices and placing

them along the sewer line. The cost of excavation shall be included in the unit price bid for GRAVITY SEWER or UTILITY LOCATION. Measurement for payment will be based on the quantity installed as directed by the Engineer.

1.22 CCTV

- A. The unit price bid for CCTV shall include all costs associated with utilizing CCTV equipment to record work on assets, measuring depth, diameter and type of pipes and all conditions of the run of the pipe from manhole to manhole. Measurement shall be made based on distance recorded on video of the CCTV, as approved by the Engineer.
- B. For all CCTV work, PACP data requirements are as follows:
1. PACP database must be NASSCO compliance
 2. Data must be delivered in PACP or GaniteXP format
 3. PACP format is only acceptable for the following versions: Nothing earlier than 2.0.2 nothing later 6.0.3
 4. Asset ID in the database needs to be implemented as provided by Fulton County. If the CCTV contractor discovers additional assets that are not currently mapped by Fulton County, then the discovered asset(s) should be identified with a TMP prefix joined with the next known downstream Asset ID. If there is no downstream and upstream IDs contractor need to use sequence number identified with a TMP.
 5. If a new Data (manhole, pipe) is found, map update (sketch) needs to be provided
 6. Data and videos should be provided on a CD/DVD with the label of the project
 7. Videos will only be accepted in MPG format.
 8. Video needs to be delivered per section of the pipe from manhole to manhole.

1.23 Utility Location – Excavation and Backfill

- A. Soft Dig Hydro Excavation: The unit price bid for SOFT DIG HYDRO EXCAVATION shall include all costs associated with locating the assigned utility, excavating to directly above the pipe, measuring the depth, diameter and type of the pipe, backfilling and compacting the hole up to two feet from existing grade with soil, encoding a 3M ID marker device, installing the marker above the pipe at a depth of two feet, and backfilling with soil and dressing the disturbed area with like surrounding materials.
- B. Where utility location is performed in roadways or sidewalks, other materials may be required for backfill. Select materials will be paid for at the unit prices bid for TRENCH STABILIZATION. Measurement for payment will be made on the actual quantity of material used for backfill of the hole where the marker ball is installed.
- C. Exploratory Excavation: The unit price bid for EXPLORATORY EXCAVATION shall include all costs associated with excavation of an area by machine and by hand where necessary with the intent of locating a Fulton County utility, including all equipment, tools, and labor. The costs associated with removal and replacement of roadway, driveway, sidewalk, or curb and gutter shall be included under the appropriate pay item. Measurement for payment will be based on the actual amount of excavation required to locate a Fulton County utility, only when

ordered by the Engineer. This item shall not be used for standard locating of utilities as required to perform the work.

- D. No payment will be made for excavation that does not locate the assigned utility, or where the marker ball is not installed directly above the pipe.
- E. No separate or additional payment will be made for any special or unique method, means, techniques or equipment necessary for the Contractor's compliance with these Specifications, regulatory requirements, permits, laws or regulations which govern this Project.

1.24 Cash Allowances

- A. General
 - 1. The Contractor shall include in the Bid Total all allowances stated in the Contract Documents. These allowances shall cover the net cost of the services provided by a firm selected by the Owner. The Contractor's handling costs, labor, overhead, profit and other expenses contemplated for the original allowance shall be included in the items to which they pertain and not in allowances.
 - 2. No payment will be made for nonproductive time on the part of testing personnel due to the Contractor's failure to properly coordinate testing activities with the work schedule or the Contractor's problems with maintaining equipment in good working condition. The Contractor shall make all necessary excavations and shall supply any samples of materials necessary for conducting compaction and density tests.
 - 3. No payment shall be provided for services that fail to verify required results.
- B. Should the net cost be more or less than the specified amount of the allowance, the Contract will be adjusted accordingly by change order. The amount of change order will not recognize any changes in handling costs at the site, labor, overhead, profit and other expenses caused by the adjustment to the allowance.
- C. Documentation
 - 1. Submit copies of the invoices with each periodic payment request from the firm providing the services.
 - 2. Submit results of services provided which verify required results.
- D. Schedule of Cash Allowances
 - 1. Soils, Concrete, Asphalt, and Materials Testing: Allow the amount provided in the Bid for the services of a geotechnical engineering firm and testing laboratory to verify soils conditions including trench excavation and backfill, asphalt coring and density tests, testing of concrete cylinders for poured in place concrete, pipe materials, and similar issues as directed by the Engineer. Services will be reimbursed at direct cost, Contractor must provide invoices for Owner approval.

2. Utility Conflict Resolution: Allow the amount specified in the Bid to resolve any unforeseen utility conflicts (including relocating and/or replacement) as directed and approved by the Engineer.
3. Large Tree Removal: Allow the amount specified in the Bid **for the services of a tree removal specialist to remove individual trees as directed by the Engineer**. Services will be reimbursed at direct cost plus 10%, Contractor must provide invoices for Owner approval. No payment will be made for trees removed as part of clearing and grubbing.
4. Bypass Pumping: Allow the amount specified in the Bid **for the services of a bypass pumping specialty contractor to provide bypass pumping services as directed and approved by the Engineer**. Services will be reimbursed at direct cost plus 10%, Contractor must provide invoices for Owner approval. Costs for bypass pumping will be reimbursed only with prior approval of the Engineer. If bypass pumps are provided without prior Engineer approval, payment may not be made for services at the discretion of the Engineer.
5. Blasting Monitoring: Allow the amount provided in the Bid for the services of an independent, qualified specialty subcontractor to monitor the blasting, when directed by the Engineer. Services will be reimbursed at direct cost, Contractor must provide invoices for Owner approval.

1.25 Emergency Services

- A. The following labor and equipment are included in the Bid for when the County needs manpower or additional equipment to assist in making emergency repairs other than those specified above as unit price items. Hourly rate items below shall **NOT** apply when work is performed under non-emergency conditions. The Notice to Proceed for each project will indicate emergency or non-emergency project status. Once an emergency is declared contained by the project manager, the project will go forward as non-emergency utilizing line items and a notice to proceed will be issued for the remainder of the work.
- B. The unit price bid for the following items shall include all costs for providing the specified personnel on an hourly basis as required by the Owner. Payment may be made for partial work days where applicable. All overhead and direct costs, including all mobilization costs, for providing the labor, equipment, tools, supplies associated shall be included. Separate payments for items not included shall be agreed to prior to providing such items. No payment will be made for additional services provided without proper written notification to the Owner that the services being requested are additional.
 1. Sewer Superintendent
 2. Sewer Crew Truck - Fully Equipped with tools and repair parts including but not limited to pipe saw, wacker-packer, chain saw, and miscellaneous hand tools, including sewer foreman and three laborers.
 3. Rubber Tired Front End Loader With Trailer and Operator
 4. Rubber Tired Backhoe With Trailer and Operator
 5. Excavator With Trailer and Operator

6. Trench Compactor With Operator
 7. Mobile Air Compressor With Hoses and Air Tools (Jackhammer, Pavement Breaker, Clay Spade, etc.)
- C. During emergency conditions, contractor representative shall be on site within two hours of notification of emergency work and contractor workforce shall be on site within four hours of notification to commence emergency repair work. Any failure to respond to an emergency request will be grounds for non-assignment of future projects and a poor performance evaluation.

END OF SECTION