

**ADDENDUM #1 TO THE BID & SPECIFICATIONS**

January 31, 2022

This Addendum forms a part of the Contract Documents and modifies the original specifications and drawings, as advertised on January 05, 2023. This Addendum consists of these 4 pages including this cover page with four (4) attachments. This addendum is a total of FORTY (40) pages.

The Bid Date of February 16, 2023 has not been changed.

\*\* Please sign, date and return e-mail this sheet to Buchart Horn, Inc. (e-mail: dvesely.com). Failure to acknowledge this addendum ON THE BID FORM may subject Bidder to disqualification.

***I have received all 39 pages in Addendum #1.***

\_\_\_\_\_  
Name

\_\_\_\_\_  
Company

\_\_\_\_\_  
Date

**LIST OF ATTACHMENTS (Referenced below)**

1. Prebid Meeting minutes – 10 pages
2. Bid Schedule – 2 pages
3. Davis Bacon Wage Determination – 5 pages
4. Section 01650 Measurement and Payment – 19 pages

**PREBID MEETING MINUTES**

The minutes of the 01/24/2024 pre-bid meeting is provided as Attachment 1. As stated in the specifications, these minutes are to be consulted as a bidding document.

**CHANGES TO SPECIFICATIONS**

**Section BS – Bid Schedule.** Replace the Bid Schedule included with the original specifications with this attached Bid Schedule dated January 27, 2023. (Attachment 2)

**Section SC – Supplementary Conditions** Insert the following into the Supplementary Conditions after the item titled G.C. 15.01.C.2.E

G.C. 15.01

Add the following new item to the end of Section 15.01 of the General Conditions:

**15.01.F Payment for Materials Stored on Site**

Payment for the actual unit cost of materials suitably stored on the site of the work or City approved location intended for incorporation in the Work will be made by the Owner to the Contractor upon storage subject to the provisions of the entire Section 15.01 and the following conditions:

1. The Contractor shall furnish supporting evidence satisfactory to the Owner evidencing the cost of the materials and shipment to the site of the work.
2. The materials shall not be stored on the Job site for more than sixty (60) calendar days without the written consent of the Owner.
3. Materials may be stored off-site at the Contractor's facility. The Contractor shall provide an acceptable bill of sale and photographic inventory depicting material as stored and marked appropriately to determine type of material. Materials stored off-site will be inspected when delivered to the project site. Any rejected materials will be reflected as a credit to the Owner on the next progress report.
4. All stored materials shall be stored in accordance with applicable recommendations of the manufacturer and the instruction of the Owner.
5. All materials delivered to the site will be stored and handled so as to preclude inclusion of any foreign substances and to prevent discoloration and or damage which might reduce the effectiveness of the materials as part of the work.
6. Payment of stored materials will be subject to retainage defined in the Agreement.
7. The representative of the Owner may inspect and inventory any stored materials, on- or off-site. Pipe class as labeled on the pipe will be stored visibly for inventory by the Owner.

8. No payment will be made for stored materials unless such material is specifically manufactured for the project.
9. Payment for stored material will be for gravity sewer pipe and manholes only. Pipe materials will be paid at a per linear foot cost for the type of pipe stored and manholes will be paid per each for the type of manhole stored.
10. Materials that become cracked, discolored, or damaged, or are rejected by the Owner shall be removed from the site and reflected as a credit in the next progress payment.
11. The cost of stored materials reflected on the progress payment may not exceed 60% of the unit price listed on the project bid schedule.

**Section WR– Davis Bacon Wage Rates.** Please replace the section in its entirety with the attached wage rate General Decision Number TN2023013 dated 01/06/2023 (Attachment 3)

**Section 01650 Measurement and Payment.** Replace this section in its entirety with the attached Section 01650. (Attachment 4). This updated section:

1. Adds a bid item for Mobilization / Demobilization.
2. Adds a bid item for some sodding, specifically the sodding bid item has been added only for the restoration of residential properties along Chambers Chapel Road and Chapel Hill Road made necessary by the removal of the gravel driveway). The cost for other areas of work requiring sodding (stream crossing and new access driveway remain with the designated unit cost items. The text also removes the requirement for sodding with the bid items for gravity sewer pipelines and laterals.
3. Adds a bid item for temporary construction exits.
4. Clarifies that provision of geotechnical engineer is to be included in other bid items.
5. Clarifiers a licensed water well contractor must abandon the well.
6. Adds call outs for clearing and grubbing and EPSC measures.
7. Removes the call out for restrained joint pipe at stream crossings. Restrained joint pipe is not required at stream crossings.
8. Includes additional text to clarify that clearing and grubbing along with EPSC measures are a part of the gravity sewer installation.

**Section 02530 Sanitary Sewerage Collection Facilities.** Replace Paragraph 2.02 Material Fiberglass Reinforced Sewer Pipe (GRP) with the following.

G. Fiberglass Reinforced Sewer Pipe (GRP)

1. Pipe: Fiberglass Reinforced Polymer Mortar Pipe, ASTM D3262.
  - a. Stiffness Class: SN 46 (pipe invert less than 18 feet) SN 72 (pipe invert greater than 18 feet and at all stream and bored crossings) unless a more stringent class is specified otherwise by the manufacturer’s literature, soil conditions, or as indicated on the construction documents.
  - b. Pressure Rating: PN 100

2. Joint: Double bell with two separate EPDM (Reka) rubber gaskets or full faced EPDM filament wound coupling. ASTM D-4161.
3. Restrained Joints: Double bell with two separate EPDM rubber gaskets and nylon locking rods, ASTM D4161, D3517, and D3754. Restrained joints will be provided at all bored crossings. Suitable methods of mechanically restraining the pipe without affecting the size of the boring or casing pipe will be reviewed during construction.
4. Fittings:
  - a. Contact molded or manufactured from mitered sections of pipe joined by glass-fiber-reinforced overlays.
  - b. Ductile iron, fusion-bonded epoxy coated steel or stainless steel.
5. Elastomeric Seals (Gaskets): ASTM F477.
6. Fiberglass reinforced sewer pipe shall be FLOWTITE, HOBAS, or equal.

#### **CHANGES TO PLANS**

**Sheet C-105:** Remove note 8 regarding timber skids and filling the pipe opening with sand. The Contractor shall provide casing spacers and end seals

**Sheet C-111:** Remove notes 3 and 5 from this Sheet. It is not required to construct the Jack and Bore Installations shown on this sheet on a continuous non-stop basis.

**Sheet C-124** – add note 13 below to the list of notes on this sheet:

13. Core drill opening in existing concrete wet well to receive new 42" diameter pipe. Pipe shall be secured in place with LINK-SEAL, EPDM for standard applications.

**Sheet C-503:** Remove note 4 from detail 2 regarding filling the pipe opening with sand. The Contractor will not be required to fill the annular space with sand.

**END OF SECTION ADDENDUM #1**

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**Meeting Date:** January 24, 2023

**Project Name:** City of Lakeland Clear Creek Interceptor Phase A

**Project Number:** SRF 2002 476

**Report Prepared By:** Diane Vesely

**Meeting Location:** City of Lakeland – City Hall

**Moderators** Emily Harrell City of Lakeland City Engineer  
Diane Vesely, Buchart Horn, Inc.

**Participants:** See attached Sign-in Sheet

**Meeting Summary:**

Meeting started with project overview and noted that questions could be asked throughout or at the end of each section as listed on the agenda. (Note – all questions are listed at the end of the meeting summary and interspersed)

All Bidders must register at the Memphis Reprographics plan room ([www.midsoutplanroom.com](http://www.midsoutplanroom.com)) to be a registered bidder. There is not a fee to become a registered bidder. In order to submit a bid. Instructions to preregister are provided in the Advertisement for Bids. There is no cost to register, and the documents may be downloaded from the site. A paper copy of the documents may be procured from the plan room for a fee.

**ADMINISTRATIVE**

**Bid Submittal:**

Bids will be opened February 16, 2023, at 2:00 pm at City Hall Bids will be publicly opened at that time. Bidders must pre-register to bid

Bid documents include:

- Bid Envelope with Name, License Number, License Expiration Date and Classification. If mailed, please provide entire sealed package within the mailing envelope.
- Bid Form (BF)
- Bid Schedule (BS)
- Bidder's Experience (BE) – experience to be listed is:
  - 3 projects using 42" diameter sewer
  - 2 lift station projects of 0.5 mgd or greater
  - 2 jobs requiring jack and bore under a RR
- Affidavits (AF)
  - Drug Free Workplace
  - American Iron and Steel
  - Non-Boycott of Israel
- Bid Bond (5% of base bid amount including allowances)
- SRF Documents (clean water federal funds also known as State Revolving Loan Funds, herein referred to as SRF funds, are being provided for this project; therefore, the following must also be submitted with the bid.
  - Certification Regarding Debarment, Suspension and other Responsibility Matters

- Certification by Proposed Prime and/or Subcontractor regarding Equal Employment Opportunity
- Disadvantaged Business Enterprise Forms

**SRF documentation** is included in its own section of the specifications and should be carefully reviewed. Requisite forms are included there.

Pre and post bid instructions are included, and the apparent low bidder is expected to submit the requisite forms and documentation in a timely manner.

**DBE Project Goals:**

- MBE- 2.6% for construction and 5.2% for supplies, services, and equipment
- WBE - 2.6% for construction and 5.2% for supplies, services, and equipment

All bidders must solicit, **via certified mail with return receipt requested**, a minimum of **10 DBE** Subcontractors, professional Service Providers, suppliers and/or equipment vendors, for their participation the work. Please distribute these in a timely manner so that the apparent low bidder may provide copies of the certified letters and return receipts.

There are additional EPA forms that must be submitted post-bid and prior to award. These are also included in the SRF section of the bid documents.

**American Iron and Steel:** The project must comply with the statutory requirements of American Iron and Steel. All bidders are required to submit an affidavit to comply with these requirements. Additional certification will be required from suppliers later in the project. Two sample certifications are included as Appendix 5 in the American Iron and Steel section of SRF

**Davis Bacon:** The contractor will be required to comply with all Davis Bacon Act Requirements. A new Wage Decision was released on 1/6/2023 and will be included with Addendum No. 1. If a Wage Decision Modification is released on or prior to February 6, an additional addendum will be issued to update.

The Contractor will be required to maintain payroll records for a period of at least 3 years following the final payment on this contract

The importance of timely receipt of documents when requested from bidder to move the bid / award process through SRF was noted.

The office which has prepared this bid package is Buchart Horn. Questions during bidding shall be referred to the above office. Contact Person: Diane Vesely, PE. and may be submitted by e-mail [dvesely@bucharthorn.com](mailto:dvesely@bucharthorn.com)

**Last day for Questions: February 7, 2023**

**Last Day for Material Substitution Requests February 2, 2023. Note**

- For most situations where multiple equivalent products are possible, substitutions will only be reviewed during the shop drawing phase and not during the bid phase.
- We are presently reviewing the use of HOBAS piping on the project and will include a specification by addendum.

Within seven (7) days after bids are opened, the apparent low bidder, and any other bidder requested, shall submit a list of all subcontractors expected to be used in the work. Subcontractors listed on the Bidder's Experience form must be utilized on the project for the applicable work. All experience statements with pertinent information in similar and other evidence of qualifications shall be furnished for each named subcontractor requested by the City. Refer to item 12 in the instructions to Bidders.

Bids will remain effective for Ninety (90) days

Bidders shall visit the project site and completely inform himself of the Characteristics of the Area relative to construction. Point of contact for site inspection is **Emily Harrell 901 -867-5418**

#### **Bid Schedule:**

**Section 01650, Measurement and Payment Procedures** provides specific details related to the bid schedule. Part 3 of this Section reviews each of the listed bid items. Review this closely with the Bid Schedule.

**Section 01250 Allowance Bid Items.** This section describes the provision of a third-party testing firm selected by the Contractor and approved by the Owner. The Contractor shall coordinate all testing and the Owner shall make direct cost payments to the Contractor for the testing agency. There is a \$250,000 allowance for this work from which payments will be allocated. This work will be direct pay with no markup for the Contractor. It is listed in the bid schedule and is to be considered part of the contractor's base bid for bonding.

Note – The Contractor is to provide the services of a **Geotechnical Engineer** that is NOT part of the third-party testing agency and shall be included in the Contractor's unit price bidding.

#### **Insurance**

Insurance amounts are stated in the supplementary conditions. Please note the following:

1. Some of the permit documents require the Contractor and his subcontractors to maintain insurance greater than that stated in the Supplementary Conditions. The Contractor shall procure and require his subcontractors to procure insurance policies stated in the permit documents during the applicable portion of the contract. Specifically, Texas Gas and CSX Railroad – the insurance amounts are listed in the individual permits.
2. The Contractor will be required to obtain additional liability insurance coverage for applicable portions of the Contract. In particular, protective liability insurance.

**Documents Relied on During the Design.** The following documents can be made available to review.

- Geotechnical Data Report – this report will be posted in the plan room and on the City's Website
- Scott's Creek WWTP – Plant Improvement Drawings

#### **PROJECT LOGISTICS:**

##### **Working Hours**

Working hours are for this project shall be 7:00 am until 7:00 pm Monday through Friday except the CSX Bore and Jack which shall run continuous. Any other times outside these hours must be pre-approved.

##### **Good Housekeeping Measures Including Dust and Noise Control and Waste Disposal.**

Described in the General Notes as well as the General Requirements sections of the Specifications. We want to make sure we run a clean site and some of the project runs through residential areas and The City expects the Contractor to be mindful of them.

##### **Security**

The Contractor is responsible for the security of his equipment

##### **Safety**

The Contractor is solely and completely responsible for safety conditions at and adjacent to the job site.

**Salvage Items:** Equipment and materials to be salvaged are listed on the Contact Plans – Sheet C-123 lists pump station equipment to be salvaged and Sheet C-120 lists drainage materials to be salvaged. Locations for salvaged materials are listed.

**Staging Area Access:** A material staging area has not been established for the Contractor. The City indicated that it might be possible to provide some staging area at the WWTP. (Refer to question and response below).

Access through the site will be through easements as obtained by the Owner. Alternate construction routes as required by the Contractor shall be obtained by the Contractor by agreement with the landowner(s).

To clarify, a lowboy is not able to drive over railroad crossing at treatment plant entrance. The equipment will need to be offloaded on the south side of the tracks and then taken over the tracks. Evergreen road is the next crossing along the tracks. An access easement was not obtained from Evergreen Road to the RR crossing. There is a private crossing owned by Pea Point that is closer than Evergreen Road.

## PERMIT DOCUMENTS

The Owner has obtained the following project related permits. A copy of permitting documents are provided in Appendix A of the Specifications

1. **CSX Railroad Bored Pipe Crossing.** The crossing is depicted on Sheet C-105. It involves a bore and jack crossing under 1 active RR Track. The materials include 60" steel casing pipe and 42" DIP carrier.
  - a. This work requires extra insurances
  - b. The contractor will be responsible for the flagger
  - c. The work plan prepared by the Contractor will need to be uploaded through the RR portal
2. **TDOT Bored Highway Crossing Highway 70.** The crossing is depicted on C-111. It involves a bore and jack crossing under Highway 70. The materials include 54" steel casing pipe and 42" fiberglass Reinforced Pipe carrier.
3. **TDOT Driveway Installation.** The work involves cutting a new access driveway along highway 70 to allow the City to maintain the newly installed sewer. The work is depicted on sheets C-111 and C-112. The work involves a new paved and gravel driveway with 14' gate. TDOT will issue this permit once the Contractor is identified, and the project is awarded. The City has applied for the permit, but it has not been issued. The permit is noted in the documents, but there are no permit documents in the specifications other than what is shown on the project drawings
4. **Texas Gas.** The crossing is depicted on Sheet C-104 and involves installation of the 42" gravity sewer beneath 4 Texas Gas pipelines. A clearance of 2' vertical separation requires open cut beneath each pipeline.
  - a. This work requires extra insurances.
  - b. The work requires hand digging within 5' of the gas pipeline and support of gas pipeline as spelled out in the permit.
5. **TVA.** The Crossing is depicted on Sheets C-114 through C-117 and involves the installation of 42" GRP beneath and alongside the overhead electric power lines. The Contractor may need to bench the trench area to lower his equipment beneath the power lines for a portion of this work. This stretch of work also requires passing under MLGW overhead electric lines.

The drawings indicate the elevation of the electric cables over the excavation at the centerline of the pipe.

6. **Environmental Permits including**
  - a. General NPDES Permit for Stormwater Discharges Associated with Construction Activity. (CGP)
  - b. TDEC ARAP for the crossing of several streams and wetlands
  - c. USACE 404 permit.

A 3 stage EPSC plan is included with the Contract plans along with a drawing SWPPP reviewing the work associated with erosion prevention and sediment control, and work in and around streams and wetlands. The SWPPP Binder associated with this project is also included in Appendix A.



The EPSC plans also provide the details for the wetland and stream crossings. The sewer plan and profile sheets include notes referring back to the EPSC plans for EPSC outfalls, wetlands, and stream crossings.

Reminder that all permit documents are provided in the specifications, please review.

## **OTHER WORK OF NOTE**

1. Work at the Scott's Creek WWTP. Sheet C-124 details this work and involves connecting the gravity sewer into the existing WWTP influent pumping station. A work plan is required for the work in this area. Note this work involves coordination with the WWTP operators. We are coring into the WWTP wet well. The pump on of the wet well is at the invert level of the new incoming pipe and bypass pumping will be required. A work plan will be required to execute the work.
2. Demolition of 2 existing pumping stations and converting the existing wet well into a MH. These are depicted on C-120. C-121 and C-123. Data regarding the pump stations is provided on these drawings. Contractor will not be able to abandon the pump stations until the new sewer is accepted.
3. Closing an abandoned irrigation well. Sheet C-114. The department of health does not have a permit on file for this well, however, they want to be present for the well abandonment.
4. A bore and jack installation beneath low hanging MLGW power lines near the MLGW Substation Sheet C-111. The bore and jack is required because this is where MLGW distribution lines enter the substation. The elevations of the lines are indicated on the drawings but because of how low they are, it will not be possible to move and operate equipment beneath these lines. This is a deep installation.
5. MLGW Coordination is required for several areas throughout the project for water, gas, and electric. These are called out on the plans.
6. Homeowner Coordination & Access Driveway – a temporary roadway will have to be established as it is anticipated the work will consume most of the road width along the roads. The homeowners on both street sections are aware of the project. These properties are on septic and the homeowners are anxious for public sewer. Coordination as noted in the construction documents is required. A jersey barrier is required to provide separation between the contractor and the residential area.
7. Submittals
  - a. Shop drawing submittals will be electronic
  - b. In particular review the submittal requirements in Section 02530 of the specifications. This is where the work plans are required.

## **QUESTIONS ASKED DURING AND AT THE END OF THE MEETING. NOTE – SOME RESPONSES HAVE BEEN UPDATED.**

- |             |  |
|-------------|--|
| QUESTION 1  | What is the construction estimate for this project?  |
| ANSWER      | The engineer's estimate for the project is \$17.4 million.   |
| QUESTION 2  | Are the 10 DBE solicitation letters required if the bidder is able to achieve the goal?  |
| ANSWER      | Yes, the 10 DBE solicitation letters are still required.   |
| QUESTION 3A | Are the DBE goals additive?  |
| QUESTION 3B | Has the bidder met the goal if the Bidder provides 7.8% participation in construction but not in supplies, services, or equipment?   |
| ANSWER      | According to the State: Bidders have met the MBE, WBE goal if they provide 7.8% construction for DBE.  |
| QUESTION 4  | What if the bidders cannot obtain the goal?  |
| ANSWER      | The DBE participation is a goal. It is the bidder's responsibility to make a good faith effort to secure participation by DBE subcontractors, professional service providers, and/or |

equipment vendors. There are specific forms that need to be completed after bid, depending on whether or not participation is achieved.

- QUESTION 5 Can the work under the Texas Gas pipelines be bored?  
ANSWER No. During design, Buchart Horn attempted to get a bored crossing approved. Texas Gas requires 10' vertical separation for bored crossings and the elevation of the proposed sewer will not work.
- QUESTION 6 What are the diameters of the Texas Gas Pipeline?  
ANSWER The pipes are shown on sheet C-104. They are: 26", 26", 30" and 36"
- QUESTION 7 Will the Contractor be responsible for the flagman costs at the Railroad Crossing? If yes, how much are these costs?  
ANSWER No. The flagging costs associated with the bore and jack installation across CSX Railroad (RR) will be paid by the City of Lakeland (Owner).
- Any other flagging requirements associated with this project including moving equipment and materials over the RR tracks is the responsibility of the Contractor.
- QUESTION 8 Since the permits do not call for coating, are the wall thickness for the steel casing called for on the plans to be used for the casing thickness in lieu of increasing 0.063" as stated in the specifications.  
ANSWER The pipe thicknesses on the drawings has already added the 0.63" thickness required by the specifications. The thickness of the steel casing on the plans should be followed.
- QUESTION 9 Dry blown sand to fill the annular space between the carrier pipe and the casing pipe has not been used for some time. Are spacers and end seals (commonly used) acceptable?  
ANSWER Spacers and end seals are preferred. Refer to Addendum 1.
- QUESTION 10 CSX states 24-hour shift work once bore has entered the ROW which is common with CSX. However, TDOT and MLGW do not require 24 hours work on bores within their ROW. Since this impacts cost can this be waived under TDOT and MLGW ROW?  
ANSWER The only bore that must be performed in 24-hour shifts is under the RR as stated on Sheet G-003. Sheet C-111 is modified as a part of Addendum 1 to remove the requirement for 24-hour operation.
- QUESTION 11 Are there any MLGW permits?  
ANSWER MLGW did not require any permits, however, the project will cross MLGW gas, electric and water services. MLGW has reviewed the drawings and provided instructions related to crossing their utilities and coordination with department staff which are included on the drawings. MLGW coordination is required in several areas of the project.
- QUESTION 12 Is the work plan for work at the influent pump station required with the bid?  
ANSWER No.
- QUESTION 13 Are the homeowners aware of the access driveway that is required?  
ANSWER Yes, the homeowners are aware of the project. They are on septic and anxious for this project to be completed.
- QUESTION 14 Will the Contractor be required to connect the homeowners to the new sewer line?  
ANSWER No. The Contractor will be required to extend the sewer service to the homeowner's property line. The sewer will be capped and staked for the homeowner to make subsequent connections.

- QUESTION 15 There is a detention pond and sewer manholes in the vicinity of the project area that are not shown on the drawings.
- ANSWER There is ongoing development on the Betty Axton Property. The developer coordinated with the Clear Creek Interceptor Project drawings. The Contractor will not be required to extend sewers to connect these manholes.
- QUESTION 16 When will NTP be issued:
- ANSWER Lakeland should approve the project at the March BOC meeting (2<sup>nd</sup> Thursday in March) and NTP will then wait on SRF approval from the state. SRF was stressed to take time so timely submission of documents from the bidder is important. The optimistic plan to have preconstruction in mid-May and set the NTP then. The work will begin at the WWTP and the first section of piping is DIP and material lead time is anticipated.
- QUESTION 17 Will material stored be allowed and paid for on this project and can it be off-site storage?
- ANSWER Owner will pay for some materials stored on site. See Addendum 1.
- QUESTION 18 Would the City consider providing a material staging area for the Contractor?
- ANSWER The City will allow the Contractor to stage materials between the gravel driveway and the fence on the western side of the WWTP.
- QUESTION 18 Can a separate bid item be added to the specifications for the following items:
- ANSWER:
- Mobilization – yes, see addendum 1.
  - Finish grading, seeding, and sodding – No with the exception of sodding, in specific instances, see addendum 1.
  - Traffic Control – no, the cost of this work is to be included in the unit price bid items
  - Clearing and grubbing – no, the cost of this work is to be included in the unit price bid items. Note: as required by Sheet G-001, clearing and grubbing is limited to two times the length of pipe installation that may be completed in one day. Clearing and grubbing of preexisting vegetation may not occur more than 7 days prior to excavation of earthmoving in that area.
- QUESTION 19 Where can I see the geotechnical report
- ANSWER The geotechnical report is available for review on request. Additionally it is included in the specifications under the TDOT permit. The report has been scanned and placed in the plan room and made available on the City website. The borings are noted on the drawings. A small portion of the sewer was realigned after the borings were completed. Refer to sheet C-109 and C-110/
- QUESTION 20 Does the City have an area where waste / excess soil material may be disposed.
- ANSWER No.

END OF QUESTIONS

END OF MEETING MINUTES



**PRE-BID MEETING  
SIGN-IN SHEET**

Lakeland City Hall  
10001 Highway 70  
Lakeland, TN 38002  
January 24, 2023

PROJECT
Clear Creek Sanitary Sewer Phase A Interceptor Design City of Lakeland, Tennessee

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Craig Richardson	Madden Phillips Const	901-867-0024	crichardson@maddenphillips.com
Hevin Hurley	Magnolia	901-601-1009	khurley@magnoliaunderground.us





**PRE-BID MEETING  
SIGN-IN SHEET**

Lakeland City Hall  
10001 Highway 70  
Lakeland, TN 38002  
January 24, 2023

PROJECT
<p><b>Clear Creek Sanitary Sewer Phase A Interceptor Design</b> City of Lakeland, Tennessee</p>

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Spence Smally	Lakeland		
Charlie McGee	ENSCOR, LLC.	901-512-7561	charlie@enscor.net
Michael Gates	XYKW	901-481-1543	michael.gates@xykw.com
Carlton Baker	BUCHART HORN	901-283-8503	
Emily Harrell	City of Lakeland	901-867-5418	eharrell@lakelandtn.org
Diane Vesely	Buchart Horn, Inc.	901-254-7748	dvesely@bucharthorn.com

**BID SCHEDULE  
CLEAR CREEK INTERCEPTOR - SANITARY SEWER PHASE A**

BID DATE: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

to provide a complete, functional project as depicted in the Drawings and Specifications are to be considered incidental and merged with costs of other related

LS = Lump Sum    R&R = Remove and Replace    LF = Linear Feet    F&I = Furnish and Install    LS = Lump Sum  
SY = Square Yard    CY = Cubic Yard    EA = Each    Ton = Ton    LB = Pounds    VF = Vertical Feet    w/ = with

**Schedule A**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
A	Mobilization and Demobilization	1	LS	\$	\$
1	Creekside Manor Lift Station Demolition and Wet Well Conversion	1	LS	\$	\$
2	Oakwood Grove Lift Station Demolition and Wet Well Conversion	1	LS	\$	\$
3	Wellhouse Demolition and Well Abandonment	1	LS	\$	\$
4	Scott's Creek WWTP Influent Wet Well & ancillary work, complete in place, w/ testing	1	LS	\$	\$
5	Remove and Replace 15" CPP, complete in place, including testing	29	LF	\$	\$
6	Remove and Replace 18" RCP, complete in place, including testing	38	LF	\$	\$
7	Remove and Replace 36" RCP, complete in place, including testing	30	LF	\$	\$
8	10" SDR 26 PVC Gravity Sewer(8-10' Deep), complete in place, w/testing	1,038	LF	\$	\$
9	10" SDR 26 PVC Gravity Sewer(10'-12' Deep), complete in place, w/testing	223	LF	\$	\$
10	10" SDR 21 PVC Gravity Sewer(16-18' Deep), complete in place, w/testing	250	LF	\$	\$
11	18" SDR 26 PVC Gravity Sewer(14-16' Deep), complete in place, w/testing	290	LF	\$	\$
12	18" SDR 26 PVC Gravity Sewer(14-16' Deep), in paving complete in place, w/testing	787	LF	\$	\$
13	18" DR 21 C900 PVC Gravity Sewer(16'-18' Deep), in paving complete in place, w/testing	150	LF	\$	\$
14	18" DR 21 C900 PVC Gravity Sewer(18-20' Deep), in paving complete in place, w/testing	861	LF	\$	\$
15	18" DR 21 C 900 PVC Gravity Sewer(20-22' Deep), in paving complete in place, w/testing	933	LF	\$	\$
16	18" DR 21 C900 PVC Gravity Sewer(22-24' Deep), in paving complete in place, w/testing	411	LF	\$	\$
17	24" SN 42 GRP Gravity Sewer (12-14' Deep), complete in place, w/testing.	103	LF	\$	\$
18	42" SN 42 GRP Gravity Sewer (10-12' Deep), complete in place, w/testing	806	LF	\$	\$
19	42" SN 42 GRP Gravity Sewer (12-14' Deep), complete in place, w/testing	2,981	LF	\$	\$
19A	42" SN 72 GRP Gravity Sewer (12-14' Deep), complete in place, w/testing	435	LF	\$	\$
20	42" SN 72 GRP Gravity Sewer (12-14' Deep), extra bedding width, complete in place, w/testing	1,486	LF	\$	\$
21	42" SN 42 GRP Gravity Sewer (14-16' Deep), complete in place, w/testing	3,816	LF	\$	\$
22	42" SN 72 GRP Gravity Sewer (14-16' Deep), extra bedding width, complete in place, w/testing	1,105	LF	\$	\$
23	42" DIP Gravity Sewer (14-16' Deep), complete in place, w/testing	40	LF	\$	\$
24	42" SN 72 GRP Gravity Sewer (16-18' Deep), complete in place, w/testing	1,489	LF	\$	\$
25	42" SN 72 GRP Gravity Sewer (18-20' Deep), complete in place, w/testing	1,519	LF	\$	\$
26	42" DIP Gravity Sewer (18-20' Deep),complete in place, w/testing	330	LF	\$	\$
27	42" SN 72 GRP Gravity Sewer(20-22' Deep), complete in place, w/testing	360	LF	\$	\$
28	42" SN 72 GRP Gravity Sewer (20-22' Deep), in paving complete in place, w/testing	20	LF	\$	\$
29	42" DIP Gravity Sewer (20-22' Deep), complete in place, w/testing	90	LF	\$	\$
30	42" SN 72 GRP Gravity Sewer (22-24' Deep), complete in place, w/testing	309	LF	\$	\$
31	42" DIP Gravity Sewer (22-24' Deep), complete in place, w/testing	75	LF	\$	\$
32	42" SN 72 GRP Gravity Sewer(24-26' Deep), complete in place, w/testing	33	LF	\$	\$
33	42" SN 72 GRP Gravity Sewer (24-26' Deep), in paving complete in place, w/testing	67	LF	\$	\$
34	42" DIP Gravity Sewer (24-26' Deep), complete in place, w/testing	119	LF	\$	\$
35	6" PVC Gravity Lateral (14-16' Deep) incl. connect to 18" sewer, in paving, complete in place w/testing	340	LF	\$	\$
36	6" PVC Gravity Lateral (8-10' deep) incl. connect to MH in paving complete in place w/ testing	40	LF	\$	\$



**Clear Creek Interceptor Sanitary Sewer Phase A - Shedule A continued**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
37	6" PVC Gravity Lateral (10-12' deep) incl. connect to MH in paving complete in place w/ testing	359	LF	\$	\$
38	6" PVC Gravity Lateral (12-14' deep) incl. connect to MH in paving complete in place w/ testing	45	LF	\$	\$
39	6" PVC Deep Lateral Connection incl concrete	12	VF	\$	\$
40	MH, 48" Dia., 0-6' Deep, complete in place	11	EA	\$	\$
41	MH, 48", Extra Depth, Over 6' Deep, complete in place.	103	LF	\$	\$
42	MH, 60" Dia., 0-6' Deep, complete in place, including frame, cover, vent, and testing	37	37	\$	\$
43	MH, 60", Extra Depth, Over 6' Deep, complete in place	430	LF	\$	\$
44	MH, 72" Dia, 0-6' Deep, complete in place	15	EA	\$	\$
45	MH, 72", Extra Depth, Over 6' Deep, complete in place.	212	VF	\$	\$
46	MH, 84" Dia, 0-6' Deep, complete in place	5	EA	\$	\$
47	MH, 84", Extra Depth, Over 6' Deep, complete in place.	48	EA	\$	\$
48	Internal Manhole Drop Connection MH CC-025	10	VF	\$	\$
49	Manhole Removal and Replacement MH CC 016.1	15.3	VF	\$	\$
50	Hand Excav. Within 5 ft. & Support Gas Pipe Lines > 12", per location	6	EA	\$	\$
51	Benched Excavation MH CC-045 to CC-044	435	LF	\$	\$
52	Paving Temporary Restoration, complete in place.	6,671	SY	\$	\$
53	Temporary Gravel Road including 18" culvert	4,533	SY	\$	\$
53A	Sodding of Temporary Gravel Road Area	45,333	SY	\$	\$
54	Paving Permanent Restoration, complete in place.	9,115	SY	\$	\$
55	Access Driveway off of US Hwy 70 including 24" culvert	193	SY	\$	\$
56	Bore with 54" Steel Casing,complete in place, including restrained GRP SN 72 pipe w/testing	300	LF	\$	\$
57	Hwy Xing #1, complete in place. Bore w/54" Steel Casing, incl. restrained GRP SN 72pipe w/testing	123	LF	\$	\$
58	RR Xing #1, complete in place, Bore w/60" Steel Casing, incl. restrained DIP Class 53 pipe w/testing	120	LF	\$	\$
59	WWC1 Suspended Pipe Diversion complete in place, excluding pipe	20	LF	\$	\$
60	Stream Crossing #1, complete in place, including 42" SN 72 GRP conc. encased w/ testing	75	LF	\$	\$
61	Stream Crossing #1.1, complete in place, including 24" SN 72 GRP conc. encased w/ testing	100	LF	\$	\$
62	Stream Crossing #2, complete in place, including 42" SN 72 GRP conc. encased w/ testing	125	LF	\$	\$
63	Memphis Arlington Road and Stream Crossing #3, complete in place, incl. 42" SN 72 GRP conc. encased w/testing	149	LF	\$	\$
64	Stream Crossing #4, complete in place, including 42" SN 72 GRP conc. encased w/ testing	120	LF	\$	\$
65	Stream Crossing #4.1, complete in place, including 18" DR 21 C900 conc. encased w/ testing	100	LF	\$	\$
66	Trench plugs	78	CY	\$	\$
67	Dewatering	19,440	LF	\$	\$
68	Overexcavation if required as directed by the City	9,000	CY	\$	\$
69	Flowable Fill, if required, as directed by the City	1,000	CY	\$	\$
70	Stone AASHTO 57 if required, as directed by the City	3,000	CY	\$	\$
71	Stone TDOT 303.01, if required, as directed by the City	3,000	CY	\$	\$
72	Stone AASHTO #8, if required, as directed by the City	3,000	CY	\$	\$
73	Suitable Backfill, if required, as directed by the City	3,500	CY	\$	\$
74	Sand, if required, as directed by the City	100	Ton	\$	\$
75	Post construction sewer televising	1	LS	\$	\$
76	Temporary construction exit	8	EA	\$	\$
77	ALLOWANCE FOR 3RD PARTY TESTING	1	LS		\$250,000.00
<b>TOTAL BID SCHEDULE A INCLUDING PROJECT ALLOWANCE: \$</b>					

Total Base Bid including Project Allowance: \_\_\_\_\_

Dollars (\$ \_\_\_\_\_).



ADDENDUM 1  
ATTACHMENT 3

"General Decision Number: TN20230134 01/06/2023

Superseded General Decision Number: TN20220134

State: Tennessee

Construction Type: Heavy  
Including Water and Sewer Line Construction

County: Shelby County in Tennessee.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> <li>. Executive Order 14026 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.</li> </ul>
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> <li>. Executive Order 13658 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.</li> </ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number      Publication Date  
0                              01/06/2023

ELEC0474-015 08/01/2022

	Rates	Fringes
ELECTRICIAN.....	\$ 31.05	14.96

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ENGI0369-012 05/01/2013

	Rates	Fringes
Operating Engineers: Bulldozer, Crane, and Forklift.....	\$ 24.47	10.85

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LABO0386-001 05/01/2017

	Rates	Fringes
LABORER: Common or General.....	\$ 18.47	6.65

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SUTN2009-133 12/02/2009

	Rates	Fringes
LABORER: Flagger.....	\$ 8.73 **	0.00
LABORER: Pipelayer.....	\$ 11.68 **	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 16.82	0.00
OPERATOR: Loader.....	\$ 13.50 **	0.00
TRUCK DRIVER: Dump Truck.....	\$ 10.76 **	0.00

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010

08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.

Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

SECTION 01650

MEASUREMENT AND PAYMENT PROCEDURES

**PART 1 – Description.**

All work completed under this Contract will be measured by the Engineer according to the bid items and to the construction drawings. Units of measurement and dimensions will be shown in these specifications.

**1.01 Payment**

A. Progress payments will be processed in accordance with the following schedule.

Cut-Off Date  
\*\*

Date of Submittal  
\*\*

Submit pay requests to the City by the dates of submittal listed above.

\*\*Dates will be established at the Preconstruction Conference.

- B. Owner will make progress payments as defined in Article 5 of the Agreement, on the forms provided by the Engineer.
- C. If the Contractor elects to enter into a joint account agreement, two (2) pay requests and vouchers must be submitted. One pay request and voucher for the appropriate progress payment amount, the other for the retained amount.
- D. Payment will be made for the work completed and stored materials less retained amounts in accordance with provisions of the contract documents.
- E. Payment amounts will be based on the scheduled values and mutually agreed upon percentage of completion for each item.
- F. Work completed under this Contract will be measured by the Engineer according to the bid items and construction drawings. The cost of all material and labor required to complete this project as specified and shown on the drawings, but not specifically included as a pay item shall be included in the bid prices of its related bid item(s). No extra pay shall be granted for items that are reasonably foreseen as necessary for the proper installation of an items.
- G. The Contractor will receive and accept compensation provided for in the Contract as full payment for furnishing all materials, labor, tools, and equipment and for performing all Work under the Contract in a complete and acceptable manner and for all risk, loss,

damage, or expense of whatever character arising out of the nature of the Work or the execution thereof, subject to the provisions of the General Conditions.

- H. If any unit price in the Bid Schedule requires that the said unit price cover and be considered compensation for certain work or material essential to the item, this same work or material will not also be measured or paid for under any other pay item which may appear elsewhere in the Specifications.

## **1.02 Measurement of Quantities**

Quantities shown on the bid schedule are estimated and are to be considered approximate. Actual constructed quantities will vary. The Contractor will be compensated only for those items and materials actually installed and approved as part of the project. No additional pay will be granted for items or materials not installed.

- A. Work completed under the Contract shall be measured by the Engineer according to the standards of weights and measures recognized by the U.S. Bureau of Standards.
- B. The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the Contract will be those methods generally recognized as conforming to good engineering practice.
- C. Unless otherwise specified, measurements for area computations will be made on the surface. Pay measurements for area computations will not exceed the neat dimensions shown on the Contract Drawings, unless otherwise ordered in writing by the Engineer.
- D. Structures will be measured according to neat lines shown on the Contract Drawings or as altered to fit field conditions. No payment will be made for length, width, or depth, in excess of that shown on the Contract Drawings or specified in the Specifications for any construction, unless otherwise approved by the Engineer in writing.
- E. Items which are measured by the linear foot, such as pipe, will be measured parallel to the base or foundation upon which such items are placed, unless otherwise shown on the Contract Drawings or specified.
- F. In computing volumes of excavation, the average end area method based on horizontal measurements, or other acceptable methods, will be used.
- G. The term "each", when used as an item of payment, will mean complete payment for the Work described in the Contract.
- H. The term "lump sum", when used as an item of payment, will mean complete payment for the Work described in the Contract, including all necessary fittings and accessories.

- I. The term "complete in place", means the completion of the Contract item or portions thereof as determined by the Engineer including the furnishing of all materials, equipment, tools, labor, and work incident thereto, unless otherwise specified.
- J. The term "complete in place", means the completion of the Contract item or portions thereof as determined by the Engineer including the furnishing of all materials, equipment, tools, labor, and work incident thereto, unless otherwise specified.

### **1.03 Bid Item Descriptions**

The cost of all material and labor required to complete this project as specified and shown on the drawings but not specifically included as a pay item, shall be included in the bid price of its related item. No extra pay shall be granted for items that are reasonably foreseen as necessary for the proper installation of an item.

No additional payment shall be made for the following activities or items. All costs associated with these activities or items shall be included in the unit prices bid.

MOBILIZATION AND DEMOBILIZATION – N/A - ADDED TO BID ITEMS

DUST CONTROL INCLUDING PROVISION OF WATER

- A. No measurement will be made.
- B. No additional payment will be made. All costs for dust control including the provision of water to achieve dust control shall be included in the unit price(s) bid.

EROSION AND SEDIMENT CONTROL

- A. No measurement will be made with the exception of Temporary Construction Exits.
- B. No additional payment will be made. All costs for sediment and erosion control measures as shown on the drawings shall be included in the unit bid price(s) for items requiring these control measures. This includes all activities associated with the Stormwater Pollution Prevention Plan and those necessary to remain compliant with applicable permits.

Temporary Construction Exits will be paid under the bid item for Temporary Construction Entrances.

TRAFFIC CONTROL

- A. No measurement will be made.



- B. No additional payment will be made. All costs for traffic control shall be included in the appropriate unit price(s) bid.

#### CLEARING AND GRUBBING

- A. No measurement will be made.
- B. No additional payment will be made. All costs for clearing and grubbing shall be included in the unit price(s) for items requiring clearing and grubbing.

#### EXCAVATION FOR STRUCTURES OR SEWERS

- A. No measurement will be made.
- B. No additional payment will be made. All costs for excavation for structures will be included in the bid price for items requiring excavation.

#### PIPE BEDDING

- A. No measurement will be made.
- B. No additional payment will be made. All costs for pipe bedding shall be included in the unit price bid for gravity sewer and lateral pipelines.

#### FINISH GRADING AND SEEDING

- A. No measurement will be made.
- B. No additional payment will be made. All costs for finish grading, seeding and shall be included in the unit price(s) bid for items requiring finish grading and seeding.

#### SODDING

- A. No measurement will be made with the exception of the provision of sodding along Chapel Hill Road and Chambers Chapel Road.
- B. No additional payment will be made for Sodding with the exception of the provision of sodding along Chapel Hill Road and Chambers Chapel Road. All other costs for sodding shall be included in the unit price bid categories requiring sodding including stream crossings (Bid Items 60 through 65) and the access driveway (Bid Item 55).

#### PRE- AND POST-CONSTRUCTION VIDEO TAPE DOCUMENTATION

- A. No measurement will be made.

- B. All costs related to pre-and post-construction video tape documentation shall be included in the mobilization / demobilization bid.

#### FENCING AND GATE REPLACEMENT

- A. No measurement will be made.
- B. All costs related to removing, disposal, and replacing in kind fencing along the sewer alignment shall be included in the unit price(s) bid for gravity sewer pipelines. And for the work at the WWTP.

#### PROVISION OF GEOTECHNICAL ENGINEER

- A. No measurement will be made.
- B. All costs related to the provision of a Geotechnical Engineer shall be included in the unit prices for work requiring observation by the Geotechnical Engineer.

### **PART 3 Execution**

#### **3.01 Measurement and Payment of Bid Items**

##### MOBILIZATION AND DEMOBILIZATION (BID ITEM A)

- A. No measurement will be made
- B. Payment for mobilization/ demobilization will be made at the lump sum price and includes start-up costs, mobilization of equipment to the project site and pre- and post-construction videos. It also includes removal of all equipment from the project site and final clean-up. The project also includes the provision, installation, relocation, and maintenance of project signs.

The cost for mobilization shall not exceed 5% of the Total Base Bid.

The Owner will pay 40% of the mobilization cost with the Contractor's first partial payment request. The Owner will pay the remaining mobilization cost after the Contractor mobilizes equipment to the site and the pre-construction video has been accepted.

##### PUMP STATION DEMOLITION AND WET WELL CONVERSION (Bid Items 1 and 2)

- A. No measurement will be made.

- B. Payment for the pump station demolition and wet well conversion will be made at the lump sum price bid for the designated pump station site, complete in place, as specified and indicated on the Contract Drawings. The lump sum price bid will be full payment for the removal of the lift station and appurtenances and site work including, but not limited to, removal and disposal and/or salvage of existing equipment, fence, storm pipe and headwalls, clearing and grubbing, EPSC measures, driveway removal, filling openings, coating and conversion of the wet well into a manhole, bypass pumping, excavation, dewatering, backfill, site restoration, finish grading and seeding of pump station site and access driveway.

#### WELLHOUSE REMOVAL AND WELL ABANDONMENT (Bid Item 3)

- A. No measurement will be made.
- B. Payment for well house removal and disposal and well abandonment by a licensed water well Contractor in accordance with State Standards will be made at the lump sum price bid. Payment will include removing and disposing of well house structure, slab, and well appurtenances, filling open bore hole with grout, removing well casing, backfill, surface restoration and all incidental work to make the job complete.

Work includes securing and/or supporting bore hole at the bottom of excavation during construction and installation of gravity sewer.

#### SCOTT'S CREEK WASTEWATER TREATMENT PLANT (WWTP) INFLUENT WET WELL CONSTRUCTION AND ANCILLARY WORK AT WWTP SITE (Bid Item 4)

- A. No measurement will be made
- B. Payment for the construction of the new connection to the influent wet well at the Scott's Creek WWTP will be made at the lump sum price bid for the new connection complete in place as specified and indicated on the Contract Drawings. The Lump sum price bid will be full payment for the completed work including, but not limited to work in the WWTP wet well through and including installation of pipe between MH CC-001 and wet well and MH CC-001, reroute of plant internal flow piping, bypass pumping for incoming flows and for station flows, excavation, excavation support, dewatering, wet well wall thickening, core drill opening, backfill, utility support, hand excavation at electrical conduits, pipe removal and disposal, compaction and site restoration, finish grading and seeding.

The work also includes pipe installation from the influent wet well to MH CC-001 complete in place includes pipe, excavation, trench support, geotextile fabric, stone bedding, backfill, detectable marking tape, compaction, deflection testing, leakage testing, restoration of unpaved surfaces.

The work includes installation of MH CC-001, complete in place including, excavation, excavation support, manhole sections, joint connections, manhole lining, encapsulation, exterior coating, anti-floatation collar, crushed stone subbase, geotextile, backfill, compaction, pipe connections, including internal drop connection, frame, cover, steps, and vacuum testing.

The work includes installation and maintenance of EPSC measures at the WWTP.

The work also includes the provision and installation of duckbill valve in MH CC-002.

The work includes the maintenance of access to the WWTP during all construction at the WWTP site (extending through installation of MH CC-003).

The work includes removal and reinstallation of fencing and rolling gate at WWTP and provision of temporary fencing.

The work also includes the provision and installation of chain link fence and swing gate at the WWTP east property line.

No additional payment will be made for dewatering during work from the influent wet well to and including MH-CC-001.

The work excludes installation of gravity sewer and manholes upstream of MH C-001 which will be paid under other bid items.

The work excludes remove and replace existing storm pipe between MH CC-002 and CC-003.

Payment will not be made until completion of testing and acceptance by the Engineer.

#### REMOVE AND REPLACE STORM PIPES (Bid Items 5, 6, and 7)

- A. Measurement for payment of removal and replacement of storm pipelines of each size and type indicated will be made end of pipeline to end of pipeline horizontal lengths indicated on the approved grade sheets will be the only basis for payment.
- B. Payment for removal and replacement of storm pipelines will be made at the unit price bid per linear foot for each size and depth complete in place, including removal, disposal, pipe, headwalls, excavation, trench support, stone bedding, backfill - either native material or stone (as indicated on the drawings), compaction, and restoration of unpaved surfaces.

GRAVITY SEWER PIPELINES (Bid Items 8-34)

- B. Measurement for payment of gravity sewer pipelines of each size and type and at the depths indicated will be made from center to center of manholes. Horizontal lengths indicated on the approved grade sheets will be the only basis for payment.

The measurement will not include carrier (gravity sewer pipeline) pipes within casing pipes and the length of casing pipe will be deducted from the length between manholes.

The measurement will not include gravity sewer pipelines designated for concrete encasement and will be deducted from the length between manholes.

- B. Payment for gravity pipelines will be made at the unit price bid per linear foot for each size and depth complete in place, including pipe, clearing and grubbing, EPSC measures, excavation, trench support, geotextile fabric, stone bedding, backfill - either native material or stone (as indicated on the drawings), detectable marking tape, compaction, deflection testing, leakage testing, restoration of unpaved surfaces including finish grading and seeding.

Payment depth will be from existing grade to pipe invert as shown on the approved grade sheets. No additional payment will be made when the Contractor excavates by error or intent beyond the required depth.

Payment will not be made until deflection and/or robotic laser testing and leakage testing has been completed and accepted by the Engineer and until compaction tests are completed and accepted.

If service laterals and mainline are not tested simultaneously for payment, the Contractor will be required to perform an additional leakage test after the service laterals are installed at no additional cost.

Where pipeline installation is specified to be in paving, work under this pay item includes traffic control during installation.

Where pipeline is installed in wetland areas, the work includes removing and staging topsoil, placing staged topsoil after construction and finish grading and seeding with wetland seed mix.

SANITARY SEWER SERVICE LATERALS & CONNECTION TO 18" MAIN (Bid Item 35)

- A. Measurement for payment of sanitary sewer laterals that connect to the gravity sewer pipeline of each size and type and at the depths indicated will be made from center of the property cleanout to the centerline of the sewer main at the wye connection along the path of the gravity lateral.

Depth will be determined based on the invert of the lateral where the lateral connects to the sewer main. If a deep lateral connection is made, depth will be determined based on the invert of the lateral where it connects to the riser pipe.

- B. Payment will be made for sanitary sewer service laterals at the unit price for each size and depth including pipe, fittings, wye connections, cleanout, clearing and grubbing, EPSC measures, excavation, trench support, geotextile fabric, stone bedding, backfill either native material or stone (as indicated on the drawings), detectable marking tape, deflection, compaction, leakage testing, and restoration of unpaved surfaces including finish grading seeding.

Where connection to a deep lateral is made, payment is in addition to the deep lateral riser.

Payment will not be made until deflection and leakage testing has been completed and accepted by the Engineer and until compaction tests are completed and accepted.

Work under this item includes traffic control as required.

#### SANITARY SEWER SERVICE LATERALS AND CONNECTION TO SANITARY MANHOLE (Bid Items 36-38)

- A. Measurement for payment of sanitary sewer laterals that connect to a manhole of each size and type and at the depths indicated will be made from center of the property cleanout to the centerline of the sewer manhole along the path of the gravity lateral.
- B. Payment will be made for sanitary sewer service laterals at the unit price for each size and depth including pipe, fittings, wye connections, cleanout, manhole to pipe connection, drop bowl, pipe, and fittings, clearing and grubbing, EPSC measures, excavation, trench support, geotextile fabric, stone bedding, backfill - either native material or stone (as indicated on the drawings), detectable marking tape, deflection, compaction, leakage testing, and restoration of unpaved surfaces including finish grading and seeding.

Payment will not be made until leakage testing has been completed and accepted by the Engineer and until compaction tests are completed and accepted.

Work under this item includes traffic control where required.

#### 6" PVC DEEP LATERAL RISER PIPE CONNECTION (Bid Item 39)

- A. Measurement for deep lateral riser pipe connection will be from the invert of the wye connection to the riser pipe to the invert of the sewer main at the point of connection.

- B. Payment for deep lateral riser pipe connection is in addition to sanitary sewer laterals and connection to 18" main and will be at the unit price bid for each vertical foot of depth complete in place in accordance with the details including pipe, fittings, wye connections, cleanout, concrete, sonotube, excavation, trench support, geotextile fabric, stone bedding, stone backfill, deflection, compaction, and leakage testing.

Work under this item includes traffic control where required.

The work excludes connection to the 18" main and restoration of surfaces which is paid under other bid items.

Payment will not be made until completion of testing and acceptance of the entire service lateral by the Engineer

#### MANHOLES (MH) (Bid Items 40-47)

- A. Measurement for manholes will be from the elevation of the manhole invert at the lowest point in the channel to the elevation of the existing ground at the centerline of the manhole previous to the start of the work, unless a higher elevation is indicated on the Contract Drawings.
- B. Payment for manholes of the various types and diameters will be at the unit price bid, each and as described on the details. Unit price bid will be full payment for complete manholes including, excavation, excavation support, manholes sections, lining where specified, encapsulation, exterior coating, anti-floatation collar, crushed stone subbase, geotextile, backfill, compaction, pipe connections (excluding drop connections), frame, cover, steps, and vacuum testing, and is in addition to payment for pipeline.

Payment for manholes will include any clearing and grubbing, EPSC measures and finish grading and seeding required that extends beyond what is required for pipeline installation.

Payment includes pipe to MH connection of different pipe diameters where the crown elevation is matched at the manhole.

Payment will not be made until completion of testing and acceptance by the Engineer.

Payment for manholes 6-feet deep and under, and the first 6 feet of manholes over 6-feet deep will be at the unit price bid, each, complete in place.

Payment for depth over 6 feet shall be at the unit price bid per vertical foot, complete in place. Payment will be in addition to the payment granted for the first 6 feet of manhole.

INTERNAL MANHOLE DROP CONNECTION MH CC-025 (Bid Item 48)

- A. Measurement for internal manhole drop connections will be based on the vertical distance from the manhole invert at the centerline to the invert of the upper pipe as shown on the approved grade sheets.
- B. Payment for manhole drop connections shall be at the unit price bid per vertical foot for drop connection. The unit price bid shall be complete payment for drop connections regardless of size and type including pipe, drop bowl fittings and anchoring.

Payment for drop connections is in addition to the amount paid for manholes.

No payment will be made for internal drop connection of service laterals into manholes. Internal drop connection of service laterals into manholes is included with the unit bid prices for service laterals.

MANHOLE REMOVAL AND REPLACEMENT MH CC-016.1 (Bid Item 49)

- A. Measurement for the removal and replacement of MH CC-016.1 shall be based on the elevation of the manhole invert at the lowest point in the channel to the elevation at the top of the manhole cover at the centerline of the manhole previous to the start of the work.
- B. Payment for the removal and replacement of MH CC-016.01 shall be at the unit price bid per vertical foot, complete in place. Unit price bid will be full payment for complete manhole replacement including, removal, disposal, excavation, excavation support, manhole sections, manhole joints, anti-floatation collar, geotextile crushed stone subbase, backfill, compaction, pipe connections (including external drop connections), lining, encapsulation, exterior coating, frame, cover, steps, and vacuum testing, and is in addition to payment for pipeline.

Payment also includes bypass pumping of existing wastewater flows, connection of 18" diameter and 15" diameter sewers, jet cleaning of 18" diameter sewer for 1 manhole length and duckbill valve in 18" pipe.

Payment for manhole removal and replacement will include any clearing and grubbing, EPSC measures and finish grading and seeding required that extends beyond what is required for pipeline installation.

Payment will not be made until completion of testing and acceptance by the Engineer.

HAND EXCAVATION WITHIN 5 LF AND SUPPORT GAS PIPELINES GREATER THAN 12 INCH DIAMETER (Bid Item 50)

- A. No measurement will be made



- B. Payment will be made in accordance with the unit price bid per location where hand excavation within 5 foot proximity of natural gas utility pipeline that is greater than 12 inches in diameter is required by the utility. Payment includes probing and locating utility pipeline, hand excavation to fully expose entire utility and support and protection of utility pipeline as required during excavation, installation of sanitary sewer pipeline, backfill, and compaction.

Payment for exposure, support, and/or protection of other utilities and natural gas lines less than 12 inches in diameter will not be made and all costs will be included in the unit price bid for gravity sewer pipelines and laterals.

#### BENCHED EXCAVATION MH CC-045 TO CC-044 (Bid Item 51)

- A. Benched excavation between MH CC-045 and CC-044 shall be measured by the horizontal length along the horizontal alignment of the sanitary sewer from manhole to manhole.
- B. Payment for benched excavation where necessary between MH CC-045 and MH CC-044 shall be made in accordance with the unit price bid per LF complete in place and shall include, excavation, excavation support, backfill, compaction and restoration of surface.

Payment for benched excavation will include any clearing and grubbing, EPSC measures and finish grading and seeding required that extends beyond what is required for pipeline installation.

#### TEMPORARY PAVING RESTORATION (Bid Item 52)

- A. Measurement for temporary paving over pipe trenches shall be the number of square yards in place and approved. Measurement shall be made on the surface of the finished paving taken from the lines formed at the junction of the old and new asphalt.
- B. Payment for temporary paving will be made at the unit bid price per square yard, complete in place, including saw cutting, removal of existing asphalt pavement, installation of base material, grading, compaction, and re-pavement of the surface and maintenance until permanent paving is placed.

Work under this item includes traffic control as required.

#### TEMPORARY GRAVEL ROAD AND CULVERTS (Bid Item 53)

- A. Measurement for temporary gravel road shall be the number of square yards in place and approved. Measurement shall be made on the level surface of the finished temporary gravel road where the full depth of stone is in place.

- B. Payment for temporary gravel road shall be made at the unit price per square yard complete in place including site preparation, installation of temporary culverts (including 36” culvert and 18” culvert were indicated), placement of stone, compaction, grading to create a level driving surface, road maintenance including placement of additional gravel and culvert replacement as required or directed by the Engineer, removal and disposal of gravel and culverts, and site restoration including driveway repairs and swale restoration.

The work also includes the placement and removal of jersey barriers with reflectors, marking fire hydrants with lighted barriers and the relocation or provision of temporary mailboxes and final restoration of mailboxes and installation of new brick mailboxes.

Work under this item includes traffic control as required.

#### SODDING OF TEMPORARY GRAVEL ROAD AREA (Bid Item 53A)

- A. Measurement for sodding shall be the number of square yards placed after removal of temporary gravel road and culverts (Bid Item 53)

Measurement will be same as square yards measured for temporary gravel road and culverts. (Bid Item 53).

- B. Payment for sod placed will be made at the unit price per square yard complete in place including site preparation, placement of topsoil, installation, watering, and maintenance.

Payment will be made after the installation is approved by the Owner.

Payment includes watering and maintenance of sod through final completion of the project.

No additional payment will be made for sod placed as a result of areas damaged by vehicles or other equipment operating beyond the limits of the designated gravel driveway.

#### PERMANENT PAVEMENT RESTORATION AND OVERLAY (Item 54)

- A. Measurement for pavement restoration over pipe trenches shall be the number of square yards in place and approved. Measurement shall be made on the surface of the finished paving taken from the lines formed at the junction of the old and new asphalt or where a full width overlay is specified, the width of road.
- B. Payment for permanent paving will be made at the unit bid price per square yard, complete in place, including removal of temporary or existing asphalt pavement, installation of base material, grading, compaction, and re-pavement of the surface.

Work under this item includes traffic control as required.

ACCESS DRIVEWAY OFF OF US HIGHWAY 70 (Bid Item 55)

- A. Measurement for access driveway off of US Highway 70 shall be the number of square yards of driveway placed.
- B. Payment for access driveway off of US Highway 70 shall be made at the unit price per square yard complete in place including site preparation, installation of base material, grading and compaction and surface paving.

Payment also includes provision and installation of pipe culvert and side drains, new gate, traffic control, EPSC measures, and site restoration including finish grading and seeding, placement and maintenance of sod 3 feet beyond all paved surfaces.

BORING/JACKING - HIGHWAY CROSSINGS, RAILROAD CROSSINGS, OTHER BORED CROSSINGS (Bid Items 56, 57, and 58)

- A. Measurement of bored highway crossings, railroad crossings, and other bored crossings will be along the centerline of the pipeline for the length between the ends of the casing pipe as shown on the Contract Drawings.
- B. Payment for bored highway crossings, railroad crossings, or other bored crossings will be made at the unit price bid per linear foot for each crossing, complete in place. Payment shall include boring pits, dewatering, restrained carrier pipe, casing pipe, excavation, backfill, grouting voids, filling annular space, sealing pipe ends, and all other work incidental to the bored crossing.

Payment includes coordination with and payment of Railroad flaggers and traffic control as required.

Payment includes track settlement monitoring for Railroad crossings.

Payment for the manholes on either side of the crossing will be paid separately at the unit price for Manholes.

Payment for the pipe extending beyond the casing pipe between manholes will be paid separately at the unit price for gravity sewer pipelines.

- C. If it becomes impossible to complete the boring, the Contractor will discontinue the boring and obtain approval from the Engineer for an alternate method of accomplishing the crossing. Payment will be made for work already completed at the unit price bid per linear foot. This payment will be in addition to payment granted for the alternate method selected to complete the crossing.

WET WEATHER CONVEYANCE CROSSING #1 (Bid Item 59)

- A. Measurement of wet weather conveyance crossing #1 will be the horizontal projection along the centerline of the pipe from top of bank to top of bank as shown on the Contract Drawings.
- B. Payment for wet weather conveyance (WWC) crossing #1 will be made at the lump sum price for the crossing, complete in place. Payment will include excavation, backfill, suspended pipe diversion, site stabilization and restoration.

Payment will not be made for WWC crossings other than WWC#1.

Payment for gravity sewer installation will be paid separately at the unit price for gravity sewer pipelines.

The work includes clearing and grubbing, EPSC measures, and finish grading and seeding.

STREAM CROSSINGS STR-1, STR-1.1, STR-2, STR-4, AND STR-4.1 (Bid Items 60, 61, 62, 64, and 65)

- A. Measurement of stream crossings will be the length of the concrete encasement at the horizontal projection along the centerline of the pipe.
- B. Payment for stream crossings will be made at the unit price per linear foot for each crossing, complete in place. Payment will include pipe, excavation, trench support, concrete encasement, geotextile fabric, stone bedding, backfill - either native material or stone (as indicated on the drawings), detectable marking tape, compaction, deflection and leakage testing, stream diversion or suspended pipe, temporary or permanent culvert crossing, as required, stabilization restoration of surfaces including finish grading, seeding and sodding site.

The work includes clearing and grubbing, EPSC measures, and finish grading and seeding and sodding.

Payment for gravity pipelines for the length of the concrete encasement is included in this pay item.

Payment for trench plugs as required will be paid under the pay item for trench plugs

Payment for manholes will be paid separately at the unit price for manholes.

MEMPHIS ARLINGTON ROAD AND STREAM CROSSING 3 (Bid Items 63)

- A. Measurement of Memphis Arlington Road and Stream Crossing 3 will be at the length of the horizontal projection along the centerline of the pipe between MH CC-043 and CC-044.
- B. Payment will be made at the unit price per linear foot for the crossing, complete in place. Payment for both road and stream crossing includes: pipe, excavation, trench support, concrete encasement, geotextile fabric, stone bedding, backfill - either native material or stone (as indicated on the drawings), detectable marking tape, compaction, deflection and leakage testing, suspended pipe diversion, temporary, stabilization restoration of surfaces including finish grading, seeding and sodding site.

The work includes clearing and grubbing, EPSC measures, and finish grading and seeding and sodding.

Payment for gravity pipelines for the length of the concrete encasement is included in this pay item.

Where pipeline installation is specified to be in paving, work under this pay item includes traffic control during installation.

Payment for trench plugs as required will be paid under the pay item for trench plugs

Payment for manholes will be paid separately at the unit price for manholes.

Payment for paving, as required, will be paid under the pay items for temporary and permanent paving.

TRENCH PLUGS (Bid Item 66)

- A. Measurement will be based on the cubic yard of material placed.
- B. Payment for trench plugs will be at the unit price bid for each cubic yard placed where indicated on the drawings and as shown on the detail.

DEWATERING (Bid Item 67)

- A. Measurement for payment of dewatering shall be made along the length of gravity sewer from center to center of manholes. Horizontal lengths indicated on the approved grade sheets will be the only basis for payment regardless of the duration that dewatering activities needed to occur or point of groundwater discharge. No additional payment will be made for dewatering of manholes.

Where dewatering is required at the manhole only, the measurement shall be the diameter of the manhole anti-floatation collar.

- B. Payment for dewatering will be made at the unit price bid per linear foot for each length of sewer where dewatering is necessary to maintain groundwater a minimum of 1 foot below the bottom of the excavation only in the active work area regardless of size and depth of trench complete in place, including monitoring wells, pumps, piping, appurtenances, discharge filters, stone outfall, removal of system and well abandonment.

OVEREXCAVATION - UNSUITABLE BEARING REMOVAL (Bid Item 68)

- A. Unsuitable bearing removal when directed by the Engineer will be measured by the three-dimensional method. No measurement will be made for bedding material placed as a result of native material becoming unsuitable due to acts of the Contractor.
- B. Payment will be in accordance with the unit price bid per cubic yard for unsuitable bearing removal. Payment will include excavation, removal, and disposal of unsuitable material, placement of geotextile and labor and material used in replacement with specified backfill material.

Specified backfill material will be paid at the unit price for the specified backfill material.

No payment will be made for material placed as a result of native material becoming unsuitable due to acts of the Contractor.

FLOWABLE FILL (Item 69)

- A. Measurement will be based on the cubic yard of material placed.
- B. Payment will be in accordance with the unit price bid per cubic yard for flowable fill as required as a result of over-excavation or unsuitable material replacement directed by the Engineer.

No payment will be made for flowable fill placed as a result of native material becoming unsuitable due to acts of the Contractor.

SELECT MATERIAL STONE (Bid Items 70, 71, and 72)

- A. Measurement will be based on the cubic yard of material placed.
- B. Payment will be in accordance with the unit price bid per cubic yard for select material stone backfill required as a result of directed over-excavation or unsuitable material replacement directed by the Engineer.

No payment will be made for select material stone backfill placed as a result of native material becoming unsuitable due to acts of the Contractor.

SUITABLE SOIL BACKFILL (Bid Item 73)

- A. Measurement will be based on the cubic yard of material placed.
- B. Payment will be in accordance with the unit price bid per cubic yard for suitable soil backfill required to be trucked in as a result of over-excavation or unsuitable material replacement directed by the Engineer.

No payment will be made for suitable soil backfill placed as a result of native material becoming unsuitable due to acts of the Contractor.

SAND (Bid Item 74)

- A. Measurement will be based on the ton of material placed.
- B. Payment will be in accordance with the unit price bid per cubic yard for sand required to be trucked in as a result of over-excavation or unsuitable material replacement directed by the Engineer.

No payment will be made for suitable soil backfill placed as a result of native material becoming unsuitable due to acts of the Contractor.

POST CONSTRUCTION SEWER TELEVISIONING (Bid Item 75)

- A. No measurement will be made.
- B. Payment will be in the lump sum bid price for post construction sewer televising of entire alignment including service laterals. Payment includes all costs associated with sewer televising, including mobilization, demobilization, televising on CD Rom with audio commentary and locator notation for each manhole segment and sewer lateral and written field report.

TEMPORARY CONSTRUCTION EXIT (Bid Item 76)

- A. No measurement will be made
- B. Payment will be made in the per each unit price and includes site preparation, geotextile, gravel, culvert and sediment trap in accordance with City of Lakeland Standard Detail. 50% payment will be made once the entrance is installed, and the remaining payment will be made once the temporary construction exit has been removed and site has been finished graded and seeded. Additional construction entrances as required for the Contractor's haul routes will not be paid.

Payment includes maintenance of drive and sediment control device as required including replacement of gravel.

THIRD PARTY TESTING ALLOWANCE (Bid Item 77)

- A. No measurement will be made.
- B. Payment will be made in the exact invoice amount of the third-party testing agency for testing required by the Contract Documents.

**END OF SECTION**