



HUNTSVILLE

Kathy Martin, P.E.
Director
City Engineer

Urban Development Department

MASTIN LAKE ROAD SANITARY SEWER RELOCATION

Project No. 71-20-SS02

September 9, 2020

Addendum #2

Attachment "A" is amended as follows:

Replace bid quantities with "replacement", Attachment "A1". Please use the revised attachment to submit bid pricing; **all bids must be submitted using Attachment "A1"**. Contractors are authorized to download revised quantities from website and paste to a CD-RW (preferably in a live/flash drive format) which must be submitted with the original bid packet. In addition, two hard copies must be signed and submitted with original bid packet. Bid must be submitted from the file (Quantities) provided and downloaded from the City of Huntsville's website. Failure to do so may be cause for rejection of bid. The City reserves the right to reject any altered bid resulting from altering the bid CD in any manner. Contractors should be mindful of making changes to formatting already established in column for Bid Unit Price, as it may affect the outcome of their bid. In order to verify calculations are correct, Contractor may choose to manually multiply those unit costs x bid quantities to ensure extensions are correct, prior to printing and submitting with bid packet. If a price discrepancy is found on the CD-RW, or the correct version of bid quantities is not submitted on the CD-RW which corresponds to the printed hard copy, then printed hard copy prices submitted with original bid documents, with Contractor signature, will prevail. However, calculations must be accurate and will be verified manually.

- Any bidder who designates a change on the outside of the envelope understands that any deletions or additions designated, bidder must further indicate the particular bid item relative to the deletion or addition, even if the deletion or addition references to deduct or add to the Total Base Bid.

QUANTITIES REVISIONS

Delete

~~1 Mobilization and Demobilization (Not to Exceed \$20,000) 1 LS~~

Add

The Star of Alabama

1	Mobilization and Demobilization (Not to Exceed \$50,000)	1	LS
<u>Delete</u>			
2	8-Inch, Class 350, Ductile Iron, Gravity Sewer Pipe	3,020	LF
<u>Add</u>			
2	8-Inch, Class 350, Ductile Iron, Gravity Sewer Pipe	3,041	LF
<u>Delete</u>			
7	Asphalt Concrete Replacement Paving	3,100	SY
<u>Add</u>			
7	Asphalt Concrete Replacement Paving	6,750	SY
<u>Delete</u>			
8	Asphalt Concrete Resurfacing Paving	3,050	SY
<u>Add</u>			
8	Temporary and Permanent Grassing	1,000	SY
<u>Delete</u>			
9	Temporary and Permanent Grassing	1,500	SY
<u>Add</u>			
9	Erosion Control Measures	1	LS
<u>Delete</u>			
10	Erosion Control Measures	1	LS
<u>Add</u>			
10	Traffic Control Measures	1	LS

RESPONSE TO CONTRACTOR QUESTIONS

- Q: *Is the Asphalt Resurfacing detail for the repair/patching of Mastin Lake Rd. and the Asphalt Resurfacing detail for the complete length of the service road? Otherwise, what determines which is used?*
- A: All areas of pavement that are disturbed due to the installed of the new sewer line shall be replaced in accordance with the "Asphalt Paving Detail – Asphalt Pavement Replacement" found on Drawing C-503. At this time, no resurfacing is anticipated on this project.

- Q: *There is some confusion about the bid bond requirement. Will you please clarify?*
- A: Bid bond requirement is 5% of the bid, not to exceed \$10,000.00. If the contractor has already acquired a bid bond for 5% of the bid, not to exceed \$50,000, and is not able to acquire a new bid bond, no penalty will be assessed to the contractor and their bid will not be rejected as long as their bid bond is included within the bid package submittal.
- Q: *Regarding abandonment of the existing MH. Can the top of a brick MH be caved in and then backfilled or does a section of it have to be removed?*
- A: The top three feet of any manhole, brick or concrete, should be removed during abandonment.
- Q: *Should it be assumed that the existing water main that parallels the new SS main will still be in service while this project is underway?*
- A: Yes, the existing water main along Memorial Parkway Access Road will be in service during construction of the new sewer line.
- Q: *The bore pit needs to be on the west side of Memorial Parkway. Can information about the existing water main in that area be provided, such as size, depth, and location?*
- A: The existing water main on the west side of Memorial parkway is a 6-inch line and is approximately 3 to 4 feet deep. The location of this line is shown in the construction drawings.
- Q: *How close to the HWY can the bore pit be? Would 5' be too close for ALDOT?*
- A: The bored casing pipe will be longer than the current width of Memorial Parkway so that upon the road improvements project completion, the casing pipe will still be wider than the width of the new Memorial Parkway. Both the bore and receiving pits should not be close to the existing edge of Memorial Parkway based on the construction drawings.
- Q: *Question was asked if there is a reason to include services in the main line.*
- A: Reconnection of existing service lines to the new main line will remain as part of the linear foot bid for Bid Item 2. All homes along the sewer relocation route will need to have the existing service lateral connected to the new main line except for the homes shown to be demolished. No cleanouts will be required to be installed as part of this project.
- Q: *Question was asked if there are any pumps that kick on and off.*
- A: There are no upstream pump stations of the sewer piping to be relocated that will cause great variances in flow rates.
- Q: *What are the flows for each of the lines being tied into? Is it possible to get these flows?*
- A: No flow monitoring was performed for this project, but the following flows are estimates based on common design standards for flow rates.
1. The flow rate at Manhole 1 for Line SS1 shown on Drawing C-101 is approximately 2 gallons per minute (gpm). The flow rate at Manhole 1 on Line SS2 shown on Drawing C-102 is approximately 29 gpm. These numbers are

estimates only, actual flows may vary. These flows are based on average daily flows and not instantaneous flows at any point throughout the day. These estimated flows do not relieve the contractor from providing adequate bypass pumping as necessary to perform the work if the flow is greater during construction.

Q: *How does the contractor need to bid the traffic control item?*

A: Traffic control has been broken out into its own bid item. Payment procedures for this item can be found in Section 01 29 00 which has been updated with this addendum. Examples of approved ALDOT traffic control plans can be found at the following links: <https://www.dot.state.al.us/dsweb/divTed/TrafficDesign/EnglishTrafficControlLibrary.html>

1. Traffic Control along Memorial Parkway Access Road should be one lane closure (Index No. 2002) except where required to cross lanes as necessary to complete the work.
2. Traffic Control on Mastin Lake Road should follow Index No. 2004. Installation of the proposed sewer line may require both lanes of west bound traffic and the turn lane to be closed. This will result in one lane of east bound traffic being converted to west bound traffic during this time with the other east bound lane remaining for east bound traffic. This will result in a combination of multiple traffic control details listed above (Index No. 2004 and 2021).

Q: *How does the contractor bid the erosion control item?*

A: No NPDES permit is necessary for this project but the contractor will be responsible for ensuring best management practices are performed to prevent or minimize any erosion related problems. This includes, but is not limited to, installation of silt fencing, wattles, hay bales, and any other erosion control measures necessary to prevent any excavated materials or disturbed areas from being eroded from the construction site.

Q: *Is an ADEM permit required?*

A: No, with less than an acre of disturbance, an NPDES permit from ADEM is not required.

Q: *Will a pay item be added for the encasement?*

A: Any potential encasement of the proposed sewer line, as detailed on Drawing C-502, shall be included in the linear foot price for Bid Item 2. No sewer service lines will be required to be encased.

Q: *Is the A treatment listed on Sheet C503 required?*

A: This treatment is required as detailed on Drawing C-503.

Q: *Will Mastin Lake required thermoplastic striping?*

A: Yes, permanent thermoplastic striping will be required on Mastin Lake Road. The contractor shall take note of all striping in the area to be disturbed as part of the work and will replace striping in kind following repaving. The cost for striping replacement shall be included in the unit price for Asphalt Concrete Replacement Paving.

Q: *Can jack and bore drilling be done, or will it be directional drilling only?*

A: Section 33 31 13 states that "All bored encasement pipe shall be installed by the dry boring and jacking methods. Wet boring shall not be allowed."

Q: *There are two "Demolition Under Road Improvements Project" items marked on the drawings. Because this does not seem to fit with this project and there isn't a specific item for it, is this intended to be a part of this project?*

A: There are several structures in the plans that are noted for "Demolition under the Road Improvement Project". These structures are currently being demolished under a separate ALDOT project and this work will be completed prior to the start of sewer relocation construction.

Q: *Are there any special requirements on testing the manhole located on the north side of the Parkway?*

A: The proposed sewer line will be tied into an existing manhole at Sta 2+54 on Drawing C-104. This manhole has previously been coated with a concrete lining. Testing procedures as detailed in Section 33 31 23 will be required for this manhole.

Q: *There are Additive Alternates listed on the "Additive Alternates" tab of the excel sheet form for Attachment A. Are these alternates to be included in the project?*

A: No, these alternates are not included in this project and have been removed from Attachment A in this addendum.

Q: *Is the ductile iron piping in the bore to be restrained joint?*

A: Yes, the 170 linear feet of ductile iron carrier pipe for the Roadway Bore No. 1 within Bid Item #5 shall be restrained joint piping.

CLARIFICATIONS

- It was mentioned in the pre-bid meeting that there are 10 or 11 manholes on the project. The correct statement should have been "there are 13 manholes on the project."

Addenda will only be emailed to those bidders who attend and have signed in at the pre-bid meeting. All addenda, as well as other project information, are available for downloading on Engineering's website at www.huntsvilleal.gov/engineeringbids. Acknowledgement of receipt/download from website of addenda is mandatory using Attachment "C" located in the Specifications and attachment must be submitted with bid package. Failure to do so shall be cause for rejection of the bid. It is the responsibility of all bidders to refer to the website for any updates. The attached pre-bid meeting minutes, all addenda and attachments for the above-referenced project will become part of the contract documents.

**Attachments: Revised Quantities-Attachment A1
Revised Attachment A – Bid Quantities
Revised Section 01 29 00 – Payment Procedures**

END OF ADDENDUM #2

ATTACHMENT "A1" - ADDENDUM 2

Today's Date

MASTIN LAKE RD SANITARY SEWER RELOCATION
 COH Project No.: 70-20-SS02
 Garver Project No.: 19W10120

UNIT BID SHEET

ITEM NO.	DESCRIPTION	BID QTY	BID UNIT	BID UNIT PRICE	BID AMOUNT
1	MOBILIZATION AND DEMOBILIZATION (NOT TO EXCEED \$50,000)	1	LS		\$0.00
2	8-INCH, CLASS 360, DUCTILE IRON GRAVITY SEWER PIPE	3,041	LF		\$0.00
3	48-INCH DIAMETER, CONCRETE, DOGHOUSE MANHOLE	2	EA		\$0.00
4	48-INCH DIAMETER, PRE-CAST CONCRETE MANHOLE	11	EA		\$0.00
5	ROADWAY BORE NO. 1 - 170 LF OF 16-INCH STEEL CASING (0.3125" THICK) W/ 170 LF OF 8-INCH CLASS 360 DUCTILE IRON GRAVITY SEWER CARRIER PIPE	1	LS		\$0.00
6	ABANDONMENT OF EXISTING 8-INCH GRAVITY SEWER AND 48-INCH DIAMETER MANHOLES	1	LS		\$0.00
7	ASPHALT CONCRETE REPLACEMENT PAVING	6,750	SY		\$0.00
8	TEMPORARY AND PERMANENT GRASSING	1,000	SY		\$0.00
9	EROSION CONTROL MEASURES	1	LS		\$0.00
10	TRAFFIC CONTROL MEASURES	1	LS		\$0.00
TOTAL BASE BID					\$0.00

ATTACHMENT "A1" - ADDENDUM 2

Today's Date

MASTIN LAKE RD SANITARY SEWER RELOCATION

COH Project No.: 70-20-SS02

Garver Project No.: 19W10120

UNIT BID SHEET

ADDITIVE BID ALTERNATES

ITEM NO.	DESCRIPTION	BID QTY	BID UNIT	BID UNIT PRICE	BID AMOUNT
A					\$0.00
B					\$0.00
C					\$0.00
D					\$0.00

ATTACHMENT "A1" - ADDENDUM 2

MASTIN LAKE RD SANITARY SEWER RELOCATION
COH Project No.: 70-20-SS02
Garver Project No.: 19W10120

UNIT BID SHEET

**ALL ITEMS SHALL BE CONSIDERED IN-PLACE.
PRICES SHALL INCLUDE ALL LABOR,**

COMPANY _____
SIGNATURE _____
DATE _____

Today's Date

ATTACHMENT "A"

**CITY OF HUNTSVILLE WATER POLLUTION CONTROL
HUNTSVILLE, AL**

**MASTIN LAKE RD SANITARY SEWER RELOCATION
COH No. 71-20-SS02**

Note: In the event of conflict between the following requirements and City of Huntsville documents, City of Huntsville requirements shall prevail.

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

**THE CITY OF HUNTSVILLE WATER POLLUTION CONTROL DEPARTMENT
1800 Vermont Road
Huntsville, Alabama 35802**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for the period of time stated in the CITY OF HUNTSVILLE SUPPLEMENT TO GENERAL REQUIREMENTS after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.
- 2.02 In submitting this Bid, Bidder acknowledges and accepts Contractor's representations as more fully set forth in the Agreement Form.
- 2.03 In submitting this Bid, Bidder certifies Bidder is qualified to do business in the State of Alabama as required by laws, rules and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:
- A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and acknowledges receipt of the all Addenda. Contractor shall acknowledge all addenda on Attachment "C".
 - B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
 - D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site

that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D, unless stated differently in CITY OF HUNTSVILLE documents:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

- 5.01 Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.
- 5.02 Bidder will complete the Work in accordance with the Contract Documents for the following price(s). **ALL ITEMS SHALL BE CONSIDERED IN-PLACE. PRICES SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND REMOVALS AS REQUIRED FOR CONSTRUCTION OF THE REQUIRED WORK:**

UNIT BID SHEET					
ITEM	DESCRIPTION	BID QUANTITY	BID UNIT	BID UNIT PRICE	BID AMOUNT
1	Mobilization and Demobilization (Not to Exceed \$50,000)	1	LS		
2	8-Inch, Class 350, Ductile Iron Gravity Sewer Pipe	3,041	LF		
3	48-Inch Diameter, Concrete, Doghouse Manhole	2	EA		
4	48-Inch Diameter, Pre-Cast Concrete Manhole	11	EA		
5	Roadway Bore No. 1 – 170 LF of 16-Inch Steel Casing (0.3125" Thick) W/ 170 LF of 8-Inch Class 350 Ductile Iron Gravity Sewer Carrier Pipe	1	LS		
6	Abandonment of Existing 8-Inch Gravity Sewer and 48-Inch Diameter Manholes	1	LS		
7	Asphalt Concrete Replacement Paving	6,750	SY		
8	Temporary and Permanent Grassing	1,000	SY		
9	Erosion Control Measures	1	LS		
10	Traffic Control Measures	1	LS		
TOTAL BASE BID =					

5.03 BID ALTERNATES

- A. The undersigned bidder offers to make, at the bid alternate prices (Additive Bid Alternates) following, the changes in the work covered in the Total Base Bid Price that are specified in the bid alternates priced below:
1. Refer to Project Drawings and Specification Section 01 11 20 ADDITIVE BID ALTERNATES COORDINATION for specific requirements of bid alternates.
- B. It is understood that:
1. All bid alternate prices shall be filled in. The work detailed by the bid alternate(s) is an extension of the nature of the work for the Total Base Bid Price's project. This proposal requires that the undersigned Bidder propose on all work detailed by the Total Base Bid Price's project and the decrease in work as detailed by each and all of the bid alternates. Failure to comply with this requirement of submitting a price for each and all of the bid alternates may render the Bid non-responsive and may cause its rejection.
 2. The acceptance or rejection of any or all of these bid alternates is at the option of the Owner.
 3. Acceptance or rejection of bid alternates will not necessarily be made on the basis of price alone.
 4. The acceptance or rejection of one or more bid alternates will not affect the Total Base Bid Project bid, nor other conditions of this bid, nor the price of other accepted bid alternates.
 5. Reference Information for Bidders for Method of Award.
 6. The undersigned has carefully examined the plans and other contractual documents and has coordinated the scopes between the Total Base Bid Documents and the Bid Alternate Documents. Through submittal of a bid, the undersigned agrees and understands that the documents have been prepared with the highest level of care in the effort to coordinate the scopes of the Total Base Bid Project documents and the Bid Alternate documents. The undersigned agrees and accepts the responsibilities to coordinate and construct all required interconnections and coordination facilities between the Total Base Bid Project and any of, any combination of, and/or a total combination of the Bid Alternates to develop complete and operational facilities that meet the regulatory requirements for the facilities and the requirements set forth by these contract documents.

ADDITIVE BID ALTERNATES				
DESCRIPTION	BID QUANTITY	BID UNIT	BID UNIT PRICE	BID AMOUNT

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be complete within the timeframe stated in CITY OF HUNTSVILLE ATTACHMENT "B" – PROPOSAL.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security in the form of a certified or bank check, or a Bid Bond, issued by a surety meeting the requirements of the General Conditions.
 - B. List of Proposed Subcontractors;
 - C. List of Project References (ATTACHMENT "E");
 - D. Evidence of authority to do business in the state of the Project; and
 - E. Required Bidder Qualifications Statement (Section 00 45 13) with supporting data

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ARTICLE 8 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:
[Signature]

[Printed name]

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:
[Signature]

[Printed name]

Title:

Submittal Date:

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

(where applicable)

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SECTION 01 29 00 – PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes description and requirements of:
 - 1. Submittals Related to Payment Procedures.
 - 2. Schedule of Values.
 - 3. Schedule of Estimated Progress Payments.
 - 4. Basis of Payment
 - 5. Payment.
 - 6. Nonpayment for Rejected or Unused Products.
 - 7. Partial Payment for Stored Materials and Equipment.
 - 8. Partial Payment for Undelivered, Project Specific Manufactured or Fabrication Equipment.

- B. Related sections:
 - 1. Section 01 50 00 – Temporary Facilities and Controls.

1.2 SUBMITTALS

- A. Informational Submittals:
 - 1. Schedule of Values: Submit on Contractor's standard form.
 - 2. Schedule of Estimated Progress Payments:
 - a. Submit with initially acceptable Schedule of Values.
 - b. Submit adjustments thereto with Application for Payment.
 - 3. Application for Payment.
 - 4. Final Application for Payment.

1.3 SCHEDULE OF VALUES

- A. Prepare a separate Schedule of Values for each schedule of the Work under the Agreement.
- B. Upon request of Engineer, provide support documentation to support the accuracy of the Schedule of Values.
- C. Unit Price Work: Reflect unit price quantity and price breakdown from conformed Bid Form.
- D. Lump Sum Work:
 - 1. Reflect Schedule of Values format included in conformed Bid Form, specified allowances, alternates, and equipment selected by Owner, as applicable.
 - 2. List bonds and insurance premiums, mobilization, demobilization, preliminary and detailed progress schedule preparation, facility startup, and contract closeout separately.
 - 3. Break down by Division 2 through 44 with appropriate subdivision of each Specification for each Project facility. The apparent "low bidder" is required to deliver a Bid breakdown by specification within 2 working days after Bid opening.
- E. An unbalanced or front-end loaded schedule will not be acceptable.
- F. Summation of the complete Schedule of Values representing all the Work shall equal the Contract Price.
- G. Submit Schedule of Values on a compact Disk (CD) in a spreadsheet format compatible with latest version of Excel.

1.4 SCHEDULE OF ESTIMATED PROGRESS PAYMENTS

- A. Show estimated payment requests throughout Contract Times aggregating initial Contract Price.
- B. Base estimated progress payments on initially acceptable progress schedule. Adjust to reflect subsequent adjustments in progress schedule and Contract Price as reflected by modifications to the Contract Documents.

1.5 BASIS OF PAYMENT

A. Bid Item No. 1: Mobilization and Demobilization (Not to Exceed \$50,000)

- 1. The Contract Lump Sum Price shall be the cost allowed by the Owner for mobilization and demobilization of Contractor's forces. The cost includes Contractor's cost for bonds, insurance, set up of Contractor's forces and all field offices, acceptance by Engineer and Owner of schedule of payment values, and equipment personnel movement. The price established by the Owner is an allowance for the Contractor and half of the allowance will be paid upon completion of mobilization with the remaining half to be paid following demobilization. Any costs the Contractor may have above this allowance to complete this item shall be included in other bid items.

B. Bid Item No. 2: 8-Inch, Class 350, Ductile Iron Gravity Sewer Pipe

- 1. The Contract Unit Price per Linear Feet shall be based on the laying length of the pipe in linear feet actually placed as measured along the centerline of the pipe. Price and payment shall be considered payment in full for the size and type installed and shall be full compensation for all sawcutting, excavation, dewatering, bedding, backfill and compaction, including imported backfill, pipe furnishing, pipe laying, installation and reconnection of sewer services, utility crossings, furnishing and installation of tracer tape, removing and replacing curb, gutter, retaining walls, and sidewalks, connection to manholes, couplings, third-party testing of new sewer line, post-construction video inspection, flow control, bypass pumping, and all other labor, materials and equipment (excluding manholes) necessary to complete the work required in the Contract documents.

C. Bid Item No. 3: 48-Inch Diameter, Concrete, Doghouse Manhole

- 1. The Contract Unit Price per Each shall be payment in full for all labor, materials, and equipment for furnishing and installation of 48-inch diameter, concrete, doghouse manholes. Price and payment shall include, but not be limited to, all excavation, backfill, crushed stone bedding and backfill, replacing any property damaged, making connection with existing sewer, third-party testing, and all other labor, materials, and equipment necessary to complete the work required in the Contract documents.

D. Bid Item No. 4: 48-Inch Diameter, Pre-Cast Concrete Manhole

- 1. The Contract Unit Price per Each shall be payment in full for all labor, materials, and equipment for furnishing and installation of 48-inch diameter, pre-cast concrete manholes. Price and payment shall include, but not be limited to, all excavation, backfill, crushed stone bedding and backfill, replacing any property damaged, making connection with existing sewer, third-party testing, and all other labor, materials, and equipment necessary to complete the work required in the Contract documents.

- E. **Bid Item No. 5:** Roadway Bore No. 1 – 170 LF of 16-Inch Steel Casing Pipe (0.3125-Inch Thick) with 170 LF of 8-Inch CL350 DIP Carrier Pipe
1. The Contract Lump Sum Price shall be payment in full for the furnishing of all labor, materials and equipment, pipe fittings, adapters, 16-inch steel encasement pipe, casing spacers, 8-inch CL350 restrained joint DIP carrier pipe within the limits of the crossing as indicated on the Plans, and any and all incidentals necessary to complete the crossing satisfactorily and acceptable to the agencies having jurisdiction over the crossing, the Engineer and the Owner. The Owner will secure the required permit for each crossing as shown on the Plans. All crossings under this Contract shall be made by dry boring and jacking; no wet bores will be permitted. The price shall include, but not be limited to, anchoring pipe, encasement and carrier piping, casing spacers, end caps, shoring, dewatering, etc. If the total length of the bore is extended or reduced, price and payment shall be paid as a ratio of the Contract Lump Sum Price.
- F. **Bid Item No. 6:** Abandonment of Existing 8-Inch Gravity Sewer and 48-Inch Diameter Manholes
1. The Contract Lump Sum Price shall be payment in full for all labor, material, and equipment necessary to abandon the existing 8-inch gravity sewer and 48-inch diameter manholes as required in the Contract documents.
- G. **Bid Item No. 7:** Asphalt Concrete Replacement Paving
1. The Contract Unit Price per Square Yard shall be payment in full for all labor, materials, and equipment for furnishing required asphalt concrete replacement paving. The price shall include any required removal of existing asphalt or concrete, grading, paving and drainage, sub-base, base, and asphalt bituminous paving, and resetting manhole rims and covers shall be included in this pay item. All work included with this pay item include all necessary labor, materials, and equipment required in the Contract Documents to furnish asphalt concrete paving, site improvements including drainage features, and resetting manhole rims and covers.
- H. **Bid Item No. 8:** Temporary and Permanent Grassing
1. The Contract Unit Price per Square Yard for temporary and permanent grassing shall include but not be limited to: site restoration, final grading, topsoil preparation, preparation for seeding, temporary seeding, temporary mulching, permanent seeding, permanent sodding, permanent mulching and any other material necessary to meet the Contract Requirements. Payment for all temporary and permanent grassing shall include the installation and maintenance of the items throughout the duration of the project. The Contract Unit Price coverage for items listed shall be full compensation for furnishing all materials, the construction and/or installation of the materials into complete vegetative control, and shall include all equipment, tools, labor, and incidentals necessary to complete the work, to maintain all work in an acceptable condition as long as deemed necessary by the Engineer, and to remove all items as directed
- I. **Bid Item No. 9:** Erosion Control Measures
1. The Lump Sum Contract Unit Price shall be payment in full for all labor, materials, and equipment necessary for furnishing and installing silt fencing and other erosion control measures required to complete the work required in the Contract documents.
- J. **Bid Item No. 10:** Traffic Control Measures
1. The Lump Sum Contract Unit Price shall be payment in full for all labor, materials, and equipment necessary for furnishing and installing traffic control measures required to complete the work required in the Contract documents. The Contract Unit Price shall

include provision of all items such as barricades, signs, illumination, watchmen, flagmen, etc.. as necessary to complete the work.

1.6 APPLICATION FOR PAYMENT

- A. Transmittal Summary Form: Attach one Summary Form with each detailed Application for Payment for each schedule and include Request for Payment of Materials and Equipment on Hand as applicable. Execute certification by authorized officer of Contractor.
- B. Use detailed Application for Payment Form suitable to Engineer.
- C. Provide separate form for each schedule as applicable.
- D. Include accepted Schedule of Values for each schedule or portion of Work, the unit price breakdown for the Work to be paid on unit price basis, a listing of Owner-selected equipment, if applicable, and allowances, as appropriate.
- E. Preparation:
 - 1. Round values to nearest dollar.
 - 2. List each Change Order executed prior to date of submission as separate line item. The totals will equal those shown on the Transmittal Summary Form for each schedule as applicable.
 - 3. Submit Application for Payment, including a Transmittal Summary Form and detailed Application for Payment Form(s) for each schedule as applicable, a listing of materials on hand for each schedule as applicable, and such supporting data as may be requested by Engineer.

1.7 PAYMENT

- A. General:
 - 1. Progress payments will be made monthly.
 - 2. The date for Contractor's submission of monthly Application for Payment shall be established at the Preconstruction Conference.
- B. Payment for all the Work shown or specified in Contract Documents is included in the Contract Price. No measurement or payment will be made for individual items.
- C. Payment for Lump Sum Work covers all Work specified or shown in the Contract Documents.

1.8 NONPAYMENT FOR REJECTED OR UNUSED PRODUCTS

- A. Payment will not be made for following:
 - 1. Loading, hauling, and disposing of rejected material.
 - 2. Quantities of material wasted or disposed of in manner not called for under Contract Documents.
 - 3. Rejected loads of material, including material rejected after it has been placed by reason of failure of Contractor to conform to provisions of Contract Documents.
 - 4. Material not unloaded from transporting vehicle.
 - 5. Defective Work not accepted by Owner.
 - 6. Material remaining on hand after completion of Work.

1.9 PARTIAL PAYMENT FOR STORED MATERIALS AND EQUIPMENT

- A. Partial Payment: No partial payments will be made for materials and equipment delivered or stored unless Shop Drawings and preliminary operation and maintenance manuals are

accepted by Engineer. Thereafter, partial payment for materials and equipment delivered and stored, but not yet incorporated in work, shall not exceed 90% of the equipment or material value.

- B. Final Payment: Will be made only for products incorporated in Work and following approval of final operations and maintenance manuals; remaining products, for which partial payments have been made, shall revert to Contractor unless otherwise agreed, and partial payments made for those items will be deducted from final payment.

1.10 PARTIAL PAYMENT FOR UNDELIVERED, PROJECT-SPECIFIC MANUFACTURED OR FABRICATED EQUIPMENT

- A. Notwithstanding above provisions, partial payments for undelivered (not yet delivered to Site or not stored in the vicinity of Site) products specifically manufactured for this Project, excluding off the shelf or catalog items, will be made for products listed below when all following conditions exist:
 1. Partial payment request is supported by written acknowledgment from Suppliers that invoice requirements have been met.
 2. Equipment is adequately insured, maintained, stored, and protected by appropriate security measures.
 3. Each equipment item is clearly marked and segregated from other items to permit inventory and accountability.
 4. Authorization has been provided for access to storage Site for Engineer and Owner.
 5. Equipment meets applicable Specifications of these Contract Documents.

- B. Applicable Items:

<u>Specification Section</u>	<u>Specific Product</u>
None	

- C. Payment shall not exceed 15% of the equipment value, not including shipping and handling charges for undelivered, Project-specific manufactured equipment and will only be made following Shop Drawing approval.
- D. Failure of Contractor to continue compliance with above requirements shall give cause for Owner to withhold payments made for such equipment from future partial payments.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION