

**SECTION 00 91 13.01**  
**ADDENDA**  
**ADDENDUM 1**

1.1 PROJECT INFORMATION

- A. Project Name: 900 East Sewer Upsize Project Phase 1
- B. Project Number: 667-23-01
- C. Owner: Cottonwood Improvement District
- D. Engineer: Bowen Collins & Associates
- E. Date of Addendum: November 18, 2024

1.2 NOTICE TO PLANHOLDERS AND/OR BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to Section 00 21 13 - Instructions to Bidders and Section 00 70 00 – General Conditions. This Addendum serves to clarify, correct, and/or supersede information in the Specifications, Drawings, and previously issued Addenda (Contract Documents). Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. Bidder must acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.3 PRIOR ADDENDA

- A. None.

1.4 BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

- A. Replace section 00 41 00 Bid Form in its entirety with the attached section 00 41 00 Bid Form with Addendum 1 in the footer.

Note: Trench Stabilization Material (As Required) was added to the base bid schedule as bid item 20.

- B. Replace section 01 20 00 Measurement and Payment in its entirety with the attached section 01 20 00 Measurement and Payment with Addendum 1 in the footer.

Note: Trench Stabilization Material (As Required) was added to the measurement and payment as bid item 20.

1.5 TECHNICAL SPECIFICATIONS

- A. Replace paragraph 2.1 (B) (2) in section 33 05 23 with the following paragraph.
  - 1. Nominal Inside Diameter (ID): shall not be less than 42 inches.

- B. Replace paragraph 3.5 (A) (1) in section 33 05 23 with the following paragraph.
1. For casings pipes with sewer carrier pipes and to be installed at a specified grade and slope, an approximate 5-inch to 7-inch hole shall be bored the entire length of the crossing and shall be checked for line and grade on the opposite side of the crossing from the bore pit. This pilot hole shall serve as the centerline of the larger diameter casings to be installed.

#### 1.6 DRAWINGS

- A. None.

#### 1.7 APPENDICES

- A. Add the attached pre bid meeting minutes to the appendices.

#### 1.8 CLARIFICATIONS

- A. Below are documented questions and responses that have been asked via Pre-Bid Conference Meeting and email up to November 18, 2024.

1. Question: Who will be responsible for the QC/QC testing on this project? General contractor or the owner? Also, the same question applies for the survey and staking for this project, does the GC need to include this in their bid?

Response: Contractor is responsible for QA/QC testing, survey, and staking per note 25 on drawing G-04. The owner will provide CCTV inspection of the new pipelines. See specification 01 45 00 Quality Control.

2. Question: Section 33 05 23, paragraph 3.5 A 1, the specs state, "...casings pipes with sewer carrier pipes and to be installed at a specified grade and slope, an approximate 2-inch hole shall be bored the entire length of the crossing and shall be checked for line and grade on the opposite side of the crossing from the bore pit. This pilot hole shall serve as the centerline of the larger diameter casings to be installed." Can this 2-inch hole be increased to between 5 to 7 inches as is common with pilot tube methodologies?

Response: Yes, this will be clarified in Addendum 1.

3. Question: Can the engineer's estimate be provided?

Response: The engineer's estimate of probable costs is \$6.55 million.

4. Question: Can stabilization material be added as a bid item?

Response: Yes, this has been addressed as part of Addendum 1.

END OF SECTION

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## PRE-BID CONFERENCE AGENDA

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**Project:** 900 East Sewer Upsize Project Phase 1

**Owner:** Cottonwood Improvement District

**Engineer:** Bowen Collins & Associates

**Date:** November 15, 2024

**Time:** 10:00 am

**Location:** Cottonwood Improvement District Office

1. Welcome
2. Attendees list
3. Introductions
  - a. Cottonwood Improvement District
    - i) Greg Neff – General Manager/District Engineer
  - b. Bowen, Collins & Associates
    - i) Brent Packer – Senior Engineer
    - ii) Wyatt Andersen – Project Manager
4. Project Overview
  - a. 1,910 lf of 42-inch sewer in UDOT ROW
  - b. 200 lf of 60" steel casing for trenchless boring under 6600 South intersection and SLCDPU box culvert
  - c. 7 sewer manholes
  - d. Bypass pumping
  - e. UDOT street restoration
  - f. Landscape restoration
5. Critical Items
  - a. Jordan and Salt Lake Canal Trenchless Crossing Requirements
    - i) Pothole for visual inspection of casing before and after box culvert crossing
    - ii) CCTV box culvert before and after trenchless construction
    - iii) Clean and remove debris from inside box culvert if required

## PRE-BID CONFERENCE AGENDA (continued)

### b. Permits

Obtained by Contractor

- UDOT encroachment permit

Obtained by CID

- SLCDPU Jordan and Salt Lake Canal permit
- Salt Lake County Flood Control Permit

### c. Traffic Control (see UDOT General Note 1, Dwg No. G-05)

- Construction Work Schedule (UDOT requirements) – 9:00 am to 3:30 pm or 9:00 pm to 5:00 am Monday through Friday
- Traffic control plan approval by UDOT and CID
- If two lanes in both directions are maintained, a barrier is around all equipment, and open trenches are plated, then UDOT said that equipment can stay on the roadway overnight

### d. Sewer Bypass Pumping – See Temporary Sewer Bypass Pumping Specifications and Project Note 42, Dwg No. G-04 for pumping requirements.

### e. Staking, Testing, and As-builts by Contractor (see Proj Note 25, Dwg No. G-04).

- i) UDOT requires testing each 6" lift every 50 feet along the alignment

### f. CCTV inspection by Owner (see Proj Note 25, Dwg No. G-04).

### g. Geotechnical Report is found in the Appendix

- Anticipate silt, clay, sand, and some gravel
- Ground water about 10 feet below surface
- Imported granular backfill borrow per UDOT standards is required

### h. Public Engagement Team will be provided by CID. See Project Note 12, Dwg No. G-04 describing requirements of the Contractor regarding public engagement.

## 6. Contract times and liquidated damages (refer to the Agreement, Section 00 52 13 of the Contract Documents)

- a. The Contractor will have bore pits and trenchless boring equipment ready by October 1, 2025. The Contractor may not start the trenchless boring until October 2, 2025 and complete the casing installation by October 30, 2025.
- b. All Work shall reach Substantial Completion by November 7, 2025 and Final Completion by November 14, 2025.

## 7. Sealed Bids are due on December 6, 2024 at 10:00 am local time at CID.

## 8. Tentative schedule for award: At CID Board Meeting in December.

## 9. All questions about the Project must be submitted in writing via email to Greg Neff at [gbneff@cid.utah.gov](mailto:gbneff@cid.utah.gov). Questions submitted after 5:00 pm on November 29, 2024 may not be answered.

## **PRE-BID CONFERENCE AGENDA (continued)**

### **10. Contractor questions?**

- a. Can the engineer's estimate be provided? Yes, this will be addressed in Addendum 1.
- b. Can stabilization material be added as a bid item? Yes, this will be addressed in Addendum 1.

## Pre-bid Conference Attendees List

900 East Sewer Upsize Project Phase 1  
 Cottonwood Improvement District

Date November 15, 2024

Time 10:00 am

Name	Company	Phone/Cell	E-mail
Brant Packer	Bowen, Collins & Assoc	801-495-2224	bpacker@bowencollins.com
Wyatt Andersen	Bowen Collins Assoc.	801-495-2224	wandersen@bowencollins.com
Greg Neff	CID	801-943-7671	gneff@cid.utah.gov
Courtney Bixler	Newman Construction	801-254-3521	mdavis@newmanllc.com
Will Simkins	CPE Pumps	385-775-8567	WSimkins@cpepumps.com
Colby Meller	Condie Construction	425-851-1901	cmeller@condieconstruction.com
Dillon Pile	United Rentals	801-927-0796	dpile@ur.com
Colton Deeter	United Rentals	801-949-1028	CDEETER@ur.com
Mitchell Johnson	Cliff Johnson Excavating	385-315-9624	dig@cjecorp.com
Kevin Higgs	Red Pine Construction	801-831-0055	Kevinh@redpineconstruction.com
James Clark	BTrenchless/HDD	303-453-9458	james.clark@btconstruction.com
Marcelino Stott	ROSC CONSTRUCTION	244-8453	ROSC_CONSTRUCTION@OUTDOOR.COM
Tim Parson	CPE Pumps	385-977-2561	tparson@cpepumps.com
Jon Nix	C.H. Nix Const.	801-589-9015	jonnix@chnix.com
Charles Reid	WW Clyde	385-630-1806	creid@wwclyde.net
Paul Ellis	Lyndon Jones Const.	801-253-3478	paul@ljonesconstruction.com
JAREL YANDES	BHI	435-299-5633	JAREL@BHI.CO.COM
TYSEN ELSON	SILVER SPUR	801-866-7862	TYSEN@SILVERSPURUTAH.COM
Steve Lopez	United Rentals Pumps	801-209-8322	slopez1@ur.com
Tyler Beus	Whitaker Construction	928-358-9306	tyler.beus@whitcon.com
TONY TREASURE	NOLAN CONST.	801-718-7968	TONY@NOLANCONSTRUCTION.COM

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**SECTION 00 41 00  
BID FORM**

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The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

**TABLE OF CONTENTS**

	<b>Page</b>
ARTICLE 1 – Owner And Bidder.....	2
ARTICLE 2 – Attachments to This Bid.....	2
ARTICLE 3 – Basis of Bid – Lump Sum Bid And Unit Prices.....	2
ARTICLE 4 – Time of Completion.....	4
ARTICLE 5 – Bidder’s Acknowledgements: Acceptance Period, Instructions, And Receipt of Addenda .....	4
ARTICLE 6 – Bidder’s Representations And Certifications.....	4

## ARTICLE 1 – OWNER AND BIDDER

1.01 *This Bid is submitted to:*

Cottonwood Improvement District  
8620 Highland Drive  
Sandy, UT 84093

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 – ATTACHMENTS TO THIS BID

2.01 *The following documents are submitted with and made a condition of this Bid:*

- A. Required Bid security.
- B. List of Proposed Subcontractors.
- C. List of Proposed Suppliers.
- D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids.
- E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
- F. Required Bidder Qualification Statement with supporting data; and

## ARTICLE 3 – BASIS OF BID – LUMP SUM BID AND UNIT PRICES

3.01 *Unit Price Bids*

A. Bidder will perform the following Work at the indicated unit prices:

1. Base Bid Schedule

Item No.	Description	Unit	Est'd Quantity	Bid Unit Price	Bid Amount
1	Mobilization and Demobilization	LS	1	\$	\$
2	42-inch Gravity Sewer Pipe Open Cut	LF	1,710	\$	\$
3	42-inch Gravity Sewer Pipe Trenchless (60" Steel Casing & 42" Sewer Pipe)	LF	200	\$	\$
4	Bypass Pumping	LS	1	\$	\$
5	6-foot Acid Resistant Sewer Manhole	EA	4	\$	\$

6	7-foot Acid Resistant Sewer Manhole	EA	2	\$	\$
7	8-foot Acid Resistant Sewer Manhole	EA	1	\$	\$
8	Sewer Lateral Reconnection or Extension	EA	2	\$	\$
9	Clay Dam	EA	5	\$	\$
10	Abandon Sewer Pipe and Manholes	LS	1	\$	\$
11	Asphalt T-Patch (7" Asphalt over 8" Road Base)	SY	2,500	\$	\$
12	1" Mill and Overlay	SY	3,200		
13	Landscape Restoration	SY	50	\$	\$
14	5' Sidewalk Replacement	LF	30	\$	\$
15	Curb & Gutter Replacement	LF	30	\$	\$
16	6' Fence Replacement	LF	30	\$	\$
17	4-inch Sewer Force Main Loop	EA	1	\$	\$
18	Traffic Control	LS	1	\$	\$
19	Box Culvert Cleaning	LS	1	\$	\$
20	Trench Stabilization Material (As Required)	CY	500	\$	\$
Total Base Bid Schedule Price					\$

B. 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 Work will be based on actual quantities, determined as provided in the Contract Documents.

## ARTICLE 4 –

### ARTICLE 4 – TIME OF COMPLETION

4.01 *Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.*

4.02 *Bidder accepts the provisions of the Agreement as to liquidated damages.*

### ARTICLE 5 – BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

- A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

- A. Bidder accepts all the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

5.04 *Assignment of Procurement Contract*

- A. None.

### ARTICLE 6 – BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified

in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. 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 the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. 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.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

#### 6.02 *Bidder's Certifications*

##### A. The Bidder certifies the following:

1. 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.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
  - a. 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.
  - b. 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.

- c. 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.
- d. 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.

END OF SECTION

**SECTION 01 20 00  
MEASUREMENT AND PAYMENT**

**PART 1 - GENERAL**

**1.1 MEASUREMENT AND PAYMENT**

- A. Unit Price Bid Items
- B. Measurement and calculation of quantities for payment to be as indicated in this section.
- C. Unit prices or lump sum amounts shall include full compensation for furnishing all labor, materials, products, tools, equipment, transportation, services, and incidentals; demolition, erection, application, or installation of an item of the Work; overhead and profit and doing all work shown on the Drawings, defined in the Specifications and/or stipulated therein.
- D. Payment covers the cost of incidental work which includes: progress schedule; night work related to Utah Department of Transportation permitting and traffic control requirements; submittal processing; project identification sign(s); construction surveying; safety procedure plan; dust control; locating existing utilities and other underground facilities; providing any needed coordination, assistance, and work with other utility companies in locating and relocating service laterals and mains, as needed; irrigation, surface water and drainage management; pot hole excavations; tree root trimming; tree pruning; removal and disposal of tree trimmings; fees from the County Surveyor for monument restoration; hauling and stockpiling of materials and equipment; protection and support of existing surface and subsurface features; coordination with property owners, businesses, contractors, and government agencies; preparing and distributing construction notice flyers, all provisions required to provide and maintain full and continuous access to all properties affected by construction operations; replacement and restoration of existing utilities (mains and services) and other items damaged by the CONTRACTOR's operations; replacement of irrigation culverts damaged by CONTRACTOR's operations; surface restoration not identified as separate pay items in bid schedule; and all other necessary work, to complete the work in place.
- E. Bid Schedule Items: Measurement and payment to be as follows:

**Bid Item 1 – Mobilization and Demobilization**

- a. Measurement: Measurement for Mobilization will be based on lump sum.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Cost of mobilization and demobilization
  - 2) Bonds and insurance
  - 3) Cost of all permits, photographing and videotaping site conditions prior to construction

- 4) All BMPs, SWPPP board, temporary utilities and facilities, portable toilet
  - 5) Temporary safety fencing and barriers
  - 6) Silt fencing, stabilized construction entrances, all traffic control (including signs, flaggers, barriers, etc),
  - 7) Construction staking
- c. For purposes of payment, Mobilization shall be paid for on a percent complete basis. The lump sum bid price for this bid item shall not exceed 8 percent of the total bid price. Any bid proposal for mobilization that is greater than 8 percent will be adjusted to the maximum amount of 8 percent of the total bid. The bid item so adjusted will be the CONTRACTOR's bid for that item, and the CONTRACTOR's bid for the project will be recalculated and the revised total used to compare with other bidders to determine the low bid. The OWNER will pay the adjusted lump sum price for Mobilization. Mobilization will be paid on a percent complete basis as summarized below.

<b>Partial Payment</b>	<b>Amount</b>	<b>When Paid</b>
1 <sup>st</sup>	30 percent of mobilization lump sum.	With 1 <sup>st</sup> pay request
2 <sup>nd</sup>	50 percent (up to 80 percent total) of mobilization lump sum.	When contract is at least 50 percent complete
3 <sup>rd</sup>	20 percent (up to 100 percent) of mobilization lump sum.	When contract is at least 75 percent complete.

#### **Bid Item 2 – 42-inch Gravity Sewer Pipe Open Cut**

- a. Measurement: Measured and paid for based on the actual length of pipe installed. Measurement will be made along the centerline of the pipe, in place, prior to covering or backfilling.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Pavement cutting, removal, and disposal
  - 2) Excavation
  - 3) Shoring
  - 4) Dewatering
  - 5) Disposal of native material not suitable for trench backfill
  - 6) Removal and disposal of existing pipe and existing manholes (if required)
  - 7) Furnish and install filter fabric
  - 8) Furnish, install, and test pipe
  - 9) Furnish, place, and compact imported pipe bedding material
  - 10) Furnish and place pipe zone
  - 11) Furnish and install utility warning tape
  - 12) Furnish, place, and compact trench backfill conforming to specifications
  - 13) Provide bypass of existing irrigation ditches or storm drain during construction

- 14) Restore existing utilities impacted by sewer construction including, but not limited to water lines, gas lines, irrigation pipe, storm drains, French drains, storm drain manholes and catch basins, power lines, secondary water lines, fiber optic lines, telephone lines, cable TV, etc.
- 15) And all other appurtenances and work required to install new pipe.

**Bid Item 3 – 42-inch Gravity Sewer Pipe Trenchless (60” Steel Casing & 42” Sewer Pipe)**

- a. Measurement: Measured and paid for based on the actual length of pipe installed. Measurement will be made along the centerline of the pipe and in place.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Pavement cutting, removal, and disposal
  - 2) Excavation
  - 3) Shoring
  - 4) Dewatering
  - 5) Disposal of native material not suitable for trench backfill
  - 6) Removal and disposal of existing pipe and existing manholes (if required)
  - 7) Furnish and install filter fabric
  - 8) Furnish and install casing using trenchless construction methods
  - 9) Furnish, install, and test pipe
  - 10) Furnish and install casing spacers and end seals
  - 11) Furnish, place, and compact imported pipe bedding material
  - 12) Furnish and place pipe zone
  - 13) Furnish and install utility warning tape
  - 14) Furnish, place, and compact trench backfill conforming to specifications
  - 15) Provide bypass of existing irrigation ditches or storm drain during construction
  - 16) Restore existing utilities impacted by sewer construction including, but not limited to water lines, gas lines, irrigation pipe, storm drains, French drains, storm drain manholes and catch basins, power lines, secondary water lines, fiber optic lines, telephone lines, cable TV, etc.
  - 17) And all other appurtenances and work required to install new pipe.

**Bid Item 4 – Bypass Pumping**

- a. Measurement: Measured and paid for based on lump sum. Progress payments shall be made equal to the percentage of completion of bypass pumping.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:

- 1) Preparation of an acceptable sewer bypass plan(s).
- 2) Maintaining wastewater flows, including temporary routing or pumping of sewage at multiple locations as necessary to maintain uninterrupted sanitary sewer service during the construction of the sewer pipe line and connecting piping, removal or abandonment of the existing system.
- 3) Furnish pumps, piping, sewer plugs, and hoses.
- 4) Furnish gasoline/diesel fuel.
- 5) Furnish ramps, bridges, jersey barriers, sign notifications, traffic lights, and/or reflective barricades as needed.
- 6) Providing 24/7 personnel observing and maintaining any sewer bypass pumping system used during construction.
- 7) Providing protection to bypass pumping lines used during construction including traffic maintenance, signs, and barriers
- 8) Installation of coffer dams in headworks channels
- 9) Cleaning and disposal of debris in headworks channels due to bypass operations
- 10) Removal and disposal of the temporary service after completion of the work.
- 11) All other appurtenances and work required to provide temporary sewer bypass service.

**Bid Item 5 – 6-foot Acid Resistant Sewer Manhole**

**Bid Item 6 – 7-foot Acid Resistant Sewer Manhole**

**Bid Item 7 – 8-foot Acid Resistant Sewer Manhole**

- a. Measurement: Measured and paid for based on the size and actual number of manholes installed.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Pavement cutting, removal, and disposal
  - 2) Excavation
  - 3) Dewatering
  - 4) Removal and disposal of existing sewer manhole (if required).
  - 5) Disposal of native material not suitable for backfill
  - 6) Furnish, install, and test acid resistant manhole base, flow channels, boot connectors, pre-cast manhole sections, ladder rungs, cast iron frame, cover, grade rings, and concrete collars
  - 7) Connect existing piping including additional pipe for connections, couplings, etc.
  - 8) Furnish, place, and compact trench bedding and backfill per specifications;
  - 9) Furnish and install filter fabric
  - 10) Inspect and test manhole
  - 11) Restore existing utilities impacted by construction including, but not limited to: water lines, gas lines, irrigation pipe, storm drains, storm

- drain manholes and catch basins, power poles, power lines, secondary water lines, fiber optic lines, telephone lines, cable TV, etc.
- 12) And all other appurtenances and work required to install new manhole.

**Bid Item 8 – Sewer Lateral Reconnection or Extension**

- a. Measurement: Measured and paid for based on the actual number of laterals reconnected.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
- 1) Pavement cutting, removal, and disposal
  - 2) Excavation
  - 3) Dewatering
  - 4) Disposal of native material not suitable for trench backfill
  - 5) Removal and disposal of existing sewer lateral pipe (if required)
  - 6) Furnish, place, and compact pipe zone material (imported pipe zone material)
  - 7) Furnish, install, test, inspect, and connect new sewer lateral pipe and fittings
  - 8) Furnish, place, and compact trench backfill (imported trench backfill)
  - 9) Furnish and install filter fabric
  - 10) Restore existing utilities impacted by construction including, but not limited to: water lines, gas lines, irrigation pipe, storm drains, storm drain manholes and catch basins, power lines, secondary water lines, fiber optic lines, telephone lines, cable TV, etc.
  - 11) And all other appurtenances and work required to reconnect or extend sewer lateral pipe.

**Bid Item 9 – Clay Dam**

- a. Measurement: Measured and paid for based on the actual number of clay dams installed.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
- 1) Excavation
  - 2) Dewatering
  - 3) Disposal of native material
  - 4) Furnish and install clay dams in accordance with specifications and details
  - 5) Furnish, place, and compact imported trench backfill
  - 6) Restore existing utilities by construction including, but not limited to: water lines, gas lines, irrigation pipe, storm drains, storm drain manholes and catch basins, power lines, secondary water lines, fiber

optic lines, telephone lines, cable TV, etc.; all other appurtenances and work required to install clay dam.

**Bid Item 10 – Abandon Sewer Pipe and Manholes**

- a. Measurement: Measured and paid for based on lump sum.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Excavation
  - 2) Dewatering
  - 3) Disposal of native material
  - 4) Plug ends of existing pipe with concrete
  - 5) Fill pipe with flowable fill within UDOT right-of-way as noted in the drawings
  - 6) Fill manhole base with concrete and remaining structure with flowable fill
  - 7) Salvage and deliver cast iron rings, frames, and covers to Owner
  - 8) Furnish, place, and compact imported trench backfill
  - 9) Restore existing utilities impacted by construction including, but not limited to water lines, gas lines, irrigation pipe, storm drains, storm drain manholes and catch basins, power lines, secondary water lines, fiber optic lines, telephone lines, cable TV, etc.
  - 10) Restore existing surface improvements impacted by construction including but not limited to: topsoil, turf, trees, shrubs, seed, landscaping, fencing, etc.
  - 11) All other appurtenances and work required to abandon sewer manholes, sewer pipe, and meter vaults.

**Bid Item 11 – Asphalt T-Patch (7" Asphalt over 8" Road Base)**

- a. Measurement: Measured and paid for based on actual asphalt area and road base replaced.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Saw cutting and removing existing asphalt
  - 2) Furnishing, placing, and compacting road base and subbase
  - 3) Furnishing, placing, and compacting permanent asphalt
  - 4) Raising utility concrete collars (if needed)
  - 5) Paint striping
  - 6) All other appurtenances and work required to complete the asphalt t-patch.

**Bid Item 12 – 1" Mill and Overlay**

- a. Measurement: Measured and paid for based on actual mill and overlay placed.

- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Milling of existing asphalt
  - 2) Furnish and place overlay per UDOT standards
  - 3) Raising utility concrete collars (if needed)
  - 4) Paint striping
  - 5) All other appurtenances and work required to complete the mill and overlay.

#### **Bid Item 13 – Landscape Restoration**

- a. Measurement: Measured and paid for based on actual area restored.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Remove, stockpile, screen and replace topsoil as specified in the drawings
  - 2) Restore surface to original conditions including sod, shrubs, trees, fences, rock mulch, walls, pavers, landscape curbing, sprinklers, sheds, driveway, etc.
  - 3) All other appurtenances and work required to complete this item

#### **Bid Item 14 – 5' Sidewalk Replacement**

- a. Measurement: Measured and paid for based on actual length of sidewalk replaced.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Saw cutting, removing and disposing existing sidewalk
  - 2) Furnishing, placing, and compacting road base and subbase
  - 3) Furnishing and placing concrete sidewalk
  - 4) Replace any sprinkler pipe, sod, shrubs, etc. damaged during construction near the sidewalk.
  - 5) All other appurtenances and work required to complete this item.

#### **Bid Item 15 – Curb & Gutter Replacement**

- a. Measurement: Measured and paid for based on actual length of curb and gutter replaced.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Saw cutting, removing, and disposing existing curb and gutter
  - 2) Furnishing, placing, and compacting road base and subbase
  - 3) Furnishing and placing concrete curb and gutter

- 4) Replace any sprinkler pipe, sod, shrubs, etc. damaged during construction near the curb and gutter.
- 5) All other appurtenances and work required to complete this item.

#### **Bid Item 16 – 6' Fence Replacement**

- a. Measurement: Measured and paid for based on actual length of fence replaced.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Removing and disposing existing fencing
  - 2) Furnish and install fencing
  - 3) Replace any sprinkler pipe, sod, shrubs, etc. damaged during construction near the curb and gutter.
  - 4) All other appurtenances and work required to complete this item.

#### **Bid Item 17 – 4-inch Sewer Force Main Loop**

- a. Measurement: Measured and paid for based on actual number of sewer force main loops installed.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Saw cutting and removing existing asphalt
  - 2) Furnishing, placing, and compacting road base and subbase
  - 3) Furnishing, placing, and compacting permanent asphalt
  - 4) Raising utility concrete collars (if needed)
  - 5) Looping sewer force main per design drawings
  - 6) Reconnecting force main to existing sewer
  - 7) Paint striping
  - 8) All other appurtenances and work required to complete this bid item.

#### **Bid Item 18 – Traffic Control**

- a. Measurement: Measured and paid for based on lump sum.
- b. Traffic control is integral to all portions of the work. Traffic control shall include preparations of traffic control plans by a certified traffic control technician for each work zone. Traffic control shall also include all efforts required to coordinate with Utah Division of Transportation for required traffic control permits and other agencies as required. Traffic control shall include all required signs, barricades, flaggers, signals, existing system modifications, variable message boards, cones, personnel, equipment, etc. required to complete the work in accordance with the contract documents.

- c. Traffic control also includes the removal and replacement of any existing traffic signs that conflict with the work. Signs disturbed by the work shall be preserved and replaced per UDOT standard plans and specifications.
- d. Payment Covers: Payment shall be complete compensation for cost of vehicular and pedestrian protection from work zone activity, services of a certified traffic control technician, and a traffic control pan acceptable to UDOT all in accordance with the project specifications and construction drawings, including, but not limited to:
  - 1) All labor, materials, and equipment required to develop and implement a traffic control pan in accordance with the requirements of UDOT.
  - 2) Maintain smooth vehicular traffic flow in the project area during construction.
  - 3) Signage, electronic message boards, barriers, warning devices, flaggers, public notification, and cleaning of roads to maintain a clean condition with no accumulation of dirt, debris, or other foreign objects as required by the Contract Documents.
  - 4) Labor, materials, and equipment required to maintain safe pedestrian access through the project area during construction. This includes, but is not limited to, signage, warning devices, safety fencing, and maintaining a clean sidewalk that is free of dirt, gravel, and other construction debris.
  - 5) Any required coordination with contractors and their traffic control taking place adjacent to or nearby the work.
- e. Payment will be made on a prorated basis, with the percentage of payment for traffic control compared to total bid amount not to exceed percentage of total pipe installed to date compared to total pipe length in the contract.

**Bid Item 19 – Box Culvert Cleaning**

- a. Measurement: Measured and paid for based on lump sum.
- b. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:
  - 1) Removing debris from the Jordan and Salt Lake Canal box culvert to monitor for cracks.
  - 2) All other appurtenances and work required to complete this item.

**Bid Item 20 – Trench Stabilization Material (As Required)**

- c. Measurement: Measured and paid for based on the actual cubic yards installed.
- d. Payment Covers: Payment shall be complete compensation for all labor, tools, materials, and equipment required to complete this item, including, but not limited to:

- 1) Furnish, place, and compact trench stabilization material confirming to specifications.
- 2) All other appurtenances and work required to complete this item.

## 1.2 GENERAL PROGRESS PAYMENT REQUIREMENTS

- A. A Payment for Work performed shall be in accordance with installed quantities as assessed in comparison to the Schedule of Values and the Construction Schedule. Engineer will verify measurements and quantities. Each activity necessary to manage and complete the Work is identified on the Contract schedules. Each activity will be assigned its respective value, a portion of the Contract Price, as shown on the Schedule of Values (Roll-up), and detailed cost loaded activity schedule.
- B. Payment for all lump sum costs and services incurred on this Agreement shall be based on the earned value of Work accomplished during the reporting period. Earned value is determined by the completion percentage of each activity as determined by the Schedule of Values and the Construction Schedule applied to the total value of the activity. No construction activity shall be deemed 100 percent complete until Contractor has completed the physical check out and inspection of the completed Work and has submitted the signed inspection form to Engineer.
- C. Earned value is derived from the current status of Contractor Construction Schedule as determined by the monthly schedule status submittals. Each schedule status submittal is reviewed and approved by Engineer prior to Contractor obtaining approval for the Summary of Earned Values or quantities installed and the Application for Payment.

## 1.3 APPLICATION FOR PAYMENT

- A. Submit application for payment on Owner's form and be certified by signature of an Authorized Officer of Contractor.
- B. The Application for Payment shall contain all necessary references and attachments that substantiate the invoice for progress payment (e.g., certified payrolls, labor reports, progress schedule data, and Summary of Earned Values). It shall substantiate the invoice for progress payment and shall be preceded or accompanied by the schedule and status data as a condition of payment, in accordance with the Construction Schedule and the Schedule of Values.

## 1.4 REVIEWS/APPLICATION FOR PAYMENT

- A. Review meetings between Contractor and Engineer will be held weekly and within 7 Days prior to the payment application date designated by Engineer. Three Days prior to the last review meeting of the month, submit an updated schedule and a signed application for payment showing a Summary of Earned Values for the reporting and payment period so that Engineer can compare earned values to available status data. Make any adjustments to the Master Record Documents, updated schedule, and payment applications required by Engineer. Upon completion of the adjustments, Engineer will sign the payment request and forward it to Owner. Engineer will determine payment amounts if agreement with Contractor is not reached.

## 1.5 PAYMENT FOR SUPPLIES AND MATERIALS

- A. Payment based on the actual cost of supplies, materials and equipment on hand shall be made by Owner with or without a paid invoice. "Actual cost" of materials shall be the invoice amount, whether paid or not, and shall not include any costs associated with installation, testing, etc. Contractor shall be entitled to payment of the actual cost of supplies, materials, and equipment only if it (1) presents an invoice to Owner with the application for payment and (2) states in the application for payment that the materials have been delivered and stored in the time and manner specified in the contract between Contractor and his Supplier or Subcontractor. If Contractor fails to comply with those conditions, Owner may withhold payment in accordance with the provisions. Owner expressly reserves the right to withhold retention until Contractor presents to Owner a paid invoice, or some other proof of payment satisfactory to Owner, for Owner's use in verifying the accuracy of the actual cost of the supplies, materials or equipment. If the amount paid does not match the actual cost, Owner will adjust the amount of retention accordingly. Payment for supplies, materials or equipment on hand does not alter the responsibility of Contractor for all supplies, materials and equipment until Final Acceptance of the Work.

## **PART 2 - PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION (NOT USED)**

END OF SECTION

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