



E-19 Ira Lee Siphon Project  
Solicitation Number: CO-00250-SM  
Job No.: 19-0108

ADDENDUM 2  
12/12/18

To Bidder of Record:

This Addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this Addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

CHANGES TO THE SPECIFICATIONS
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1.0 Addenda Purpose

The purpose of this Addendum is to issue a revision to the Contract Documents for E19: Ira Lee Siphon Work (SAWS Job No. 19-0108).

2.0 Questions and Answers

Q1: General conditions section 5.18 indicate no work between 5pm and 8:00am without prior written approval. Once the bypass is setup and successfully passed the 24-hour test, will the Contractor have the option to work 24 hours a day/7 days a week?

RESPONSE:

*Yes, Contractor will have the option to work 24 hours a day, 7 days a week. Per Section 3, Part 2 below, Contractor shall provide proposed hours of operation for each activity outlined in the schedule. Once selected, Contractor shall coordinate with SAWS and notify SAWS of any changes to proposed schedule.*

Q2: The specifications call for a pre and post inspection of the 48" gravity lines and the 39" double barrel siphons. It is estimated that debris will be encountered in these assets hence limit the ability to perform a pre-inspection prior to cleaning. If/when this situation occurs, will the Contractor only be required to pre-inspect each section to the extent possible and document the debris levels or any other obstructions that are prohibiting a complete inspection of manholes?

RESPONSE:

*No, pre-televising has been removed from scope.*

Q3: Is SAWS open to any deviation from the proposed bypass plan as long as the Contractor is able to demonstrate that it will fulfill the contract objectives?

RESPONSE:

*Yes, SAWS is open to deviations to the suggested bypass route as long as all contract objectives and limitations/constraints are met. Any deviation shall also comply with all local and federal environmental requirements. A complete viable bypass pumping plan that satisfies the requirements of the Contract Documents including the need to bypass peak wet weather flow as well as all other collector lines coming into the existing 48" line is the responsibility of the Contractor. The layout for bypass pipe as shown in the Contract Documents is a suggested route. Contractor is responsible for defining the final layout and making sure it complies with the requirements of the Contract Documents. Time is of the*

*essence on this project. The bypass plan will have to be submitted by the Contractor on or before the Pre-Construction Meeting. Coordination has taken place with the various permitting agencies involved on this project (CoSA Parks, CoSA TCI, CoSA Floodplain, CoSA Arborist, and TXDOT). Deviating from the proposed bypass plan puts this project at risk by not having all of the permits in place for the proposed plan that deviates from what is shown on the Contract Documents. The Contractor is responsible for obtaining the ROW permit for this project. Contractor shall proceed to bid the project with the suggested bypass route and any deviations to the suggested bypass route will be evaluated after project is awarded.*

Q4: Please verify that pipe repair method will be to top opening with HDPE cap and fill with concrete (suction and discharge).

RESPONSE:

*Contractor to devise a pipe repair method that is watertight and meets the objective of the Contract Documents as acceptable to SAWS.*

Q5: Please verify that doghouse structure is to remain and not to be removed but will instead be filled with concrete as part of the cap (suction and discharge).

RESPONSE:

*Yes, doghouse structures are to remain in place and filled with concrete as part of the cap (suction and discharge).*

Q6: If a rain event or requirement to remove plug occurs, please verify that any lines previously cleaned will not need to be recleaned?

RESPONSE:

*No, at the completion of project prior to Contractor demobilizing sanitary sewer lines shall be cleaned of all debris and verified by post-television inspection.*

Q7: If a rain event or requirement to remove plug occurs, will siphon need to be dewater if done prior?

RESPONSE:

*Yes, if siphon boxes and the box and barrels have been cleaned prior to removing the plugs. Contractor shall dewater sewer pipe and siphon for post-television inspection of the sewer system, if needed.*

Q8: Please verify that the sewer bypass system will only be required to pump the peak dry weather flow of 28.7 MGD and that the contingency plan for flows exceeding this is to release the sewer plugs.

RESPONSE:

*The bypass system shall have a capacity of pumping peak wet weather as shown on the Contract Documents. This part of the system is surcharged on a regular basis, so it is likely that the Contractor will have to bypass flows ranging between peak dry weather and peak wet weather flows shown in the Contract Documents. See revised Contract Documents.*

Q9: Please verify that sound attenuated pumps are not required for the main bypass pump station.

RESPONSE:

*Sound attenuation requirements shall be in accordance with SAWS Specification 864-S1 and 864-S2.*

Q10: Please verify that in the event of a temporary demobilization for weather that all discharge piping will remain behind.

RESPONSE:

*Yes, pumps shall be demobilized and relocated outside the 100-year floodplain. Bypass piping can be removed or remain in place. The bypass plan provided by the Contractor shall include the design of the anchoring system that will be used for the project. Contractor and SAWS shall work together to monitor the weather and identify the magnitude of a rain event that will require the Contractor to extract pumps and secure the suction and discharge locations.*

Q11: If Park is to remain open will this affect work day hours?

RESPONSE:

*Salado Creek Greenway trail will be closed between January 22, 2019 through February 28, 2019. See Addendum No. 2 Special Conditions 1.2 (F). Contractor shall post closure signs as required by Contract Documents see Addendum No. 2 Specials Conditions 1.2 (C). Contractor to coordinate closely with SAWS and CoSA Parks throughout the project.*

Q12: Page 11 (IB-7) of the specifications for CO-00250, E19: Ira Lee Siphon Work, SAWS Job No. 19-0108 states under item 24 that the information packet showing company experience, ability to complete the project within the schedule and record of performance on three similar projects should be submitted by the apparent low bidder within one day of the bid opening. Page 16 of the bid specification (BC), the Bid Packet Checklist, lists those items as needing to be submitted with the bid packet. Additionally, the project schedule was requested to be submitted with the bid at the Pre-Bid meeting. Could you please verify?

RESPONSE:

*Contractor shall submit all required documentation with their bid. Please see section 3.0 Modifications to CONTRACT DOCUMENTS in Addendum No. 2 below.*

### 3.0 Modifications to CONTRACT DOCUMENTS

1. OPINION OF PROBABLE CONSTRUCTION COST (OPCC) – The estimated project construction cost has been revised to \$420,510.00.
2. INSTRUCTIONS TO BIDDERS – REMOVE Item 24 of the Instruction to Bidders in its entirety and replace with the following:

To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, bidder will submit the following items with their bid. Failure to provide the required information with their bid, may result in determining a non-responsive bidder:

- (a) An information packet on company showing experience, organization, and equipment.
  - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
  - (c) A baseline schedule in Microsoft Project Format, outlining completion of the project within SAWS schedule requirements. Baseline schedule should be prepared using a notice to proceed (NTP) date of January 21<sup>st</sup>, 2019. Contractor shall provide proposed hours of operation for each activity outlined in the schedule.
  - (d) Record of performance on three (3) similar projects completed within the last 5 years including name of project, amount of project, project scope, project location, project duration, name, address, and telephone number of contact person for each project, utility owner, name address, and telephone number of contact person for the utility. Contractor to ensure all references are valid and verified prior to bid.
  - (e) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
3. Delete the Bid Proposal form in its entirety and replace with attached Bid Proposal provided in this Addendum.
  4. Delete the Price Proposal form in its entirety and replace with attached Price Proposal provided in this Addendum.
  5. Delete the Proposal Certification form in its entirety and replace with attached Proposal Certification provided in this Addendum.
  6. Delete the Special Conditions in its entirety and replace with attached Special Conditions provided in this Addendum.
  7. Delete SP 864-S1 Bypass Pumping Small Diameter Sanitary Sewer in its entirety and replace with attached SP 864-S1 provided in this Addendum.
  8. Delete SP 864-S2 Bypass Pumping Large Diameter Sanitary Sewer in its entirety and replace with attached SP 864-S2 provided in this Addendum.
  9. Delete SS 01010 Summary of Work in its entirety and replace with attached SS 01010 Summary of Work provided in this Addendum.

4.0 Modifications to PLANS

1. Delete Sheet C1 Line Cleaning & Suggested Bypass Route in its entirety and replace with attached Sheet C1 Line Cleaning & Suggested Bypass Route provided in this Addendum.

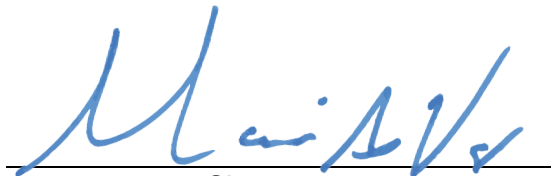
This Addendum, including these four (4) pages, is twenty (20) pages with attachments in its entirety.

Attachments

- Bid Proposal Form (1 page)
- Price Proposal Form (1 page)
- Proposal Certification (1 page)
- Special Conditions (2 pages)
- SP 864-S1 Bypass Pumping Small Diameter Sanitary Sewer (3 pages)
- SP 864-S2 Bypass Pumping Large Diameter Sanitary Sewer (3 pages)
- SS 01010 Summary of Work (4 pages)
- Plans – Sheet C1: Line Cleaning & Suggested Bypass Route (1 sheet)

12/12/18

Date



Signature



Kimley-Horn and Associates, Inc.  
Texas Registered Engineering Firm F-928  
601 NW Loop 410, Ste. 350  
San Antonio, TX 78216

END OF ADDENDUM

BID PROPOSAL

PROPOSAL OF \_\_\_\_\_, a corporation

a partnership consisting of

\_\_\_\_\_

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

**(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)**

**TOTAL PRICE PROPOSAL**

**\$ \_\_\_\_\_**

Mobilization and Prep of ROW shall be limited to the maximum percentage shown. **If the percentage exceeds the allowable maximum stated for mobilization and or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.**

\_\_\_\_\_  
BIDDER'S SIGNATURE & TITLE

\_\_\_\_\_  
FIRM'S NAME (TYPE OR PRINT)

\_\_\_\_\_  
FIRM'S ADDRESS

\_\_\_\_\_  
FIRM'S PHONE NO. /FAX NO.

\_\_\_\_\_  
FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:  
Addendum Nos. \_\_\_\_\_

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **42** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.

**E19: Ira Lee Siphon Work**

GENERAL PRICE PROPOSAL ITEMS						
LINE NO.	ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROPOSAL COST:
1	205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D - 2" THICK	213	SY	\$	\$
2	206	ASPHALTIC TREATED BASE - 6" THICK	256	SY	\$	\$
3	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING	1	LS	\$	\$
4	864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (INITIAL SETUP)	1	LS	\$	\$
5	864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (DEMOBILIZATION/REMOBILIZATION)	2	EA	\$	\$
6	864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (OPERATION AND MAINTENANCE)	6	WKS	\$	\$
7	864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SEWER (INITIAL SETUP)	1	LS	\$	\$
8	864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SEWER (DEMOBILIZATION/REMOBILIZATION)	2	EA	\$	\$
9	864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SANITARY SEWER (OPERATION AND MAINTENANCE)	6	WKS	\$	\$
10	866.3	SEWER MAIN POST TELEVISION INSPECTION (30" OR LARGER)	1362.2	LF	\$	\$
11	868.1	SANITARY SEWER SYSTEM CLEANING - MEDIUM (AVG. 40% PIPE DEPTH)	993.0	LF	\$	\$
12	General	CLEAN 39-INCH SIPHON PIPE LINE FROM INLET BOX 60181 TO OUTLET BOX 60182	369.2	LF	\$	\$
13	General	CLEAN AND INSPECT INLET BOX STRUCTURE 60181	1	EA	\$	\$
14	General	CLEAN AND INSPECT OUTLET BOX STRUCTURE 60182	1	EA	\$	\$
15	General	SIPHON GATE REMOVAL	1	LS	\$	\$
16	100.1	MOBILIZATION (MAXIMUM OF 10% OF ITEMS 1 to 15)	1	LS	\$	\$
17	101.1	PREPARING RIGHT-OF-WAY (MAXIMUM OF 5% OF ITEMS 1 to 15)	1	LS	\$	\$

## PROPOSAL CERTIFICATION

Accompanying this proposal is a Bid Bond or Certified or Cashier's Check payable to the Order of the San Antonio Water System for \_\_\_\_\_ dollars (\$\_\_\_\_\_), which amount represents five percent (5%) of the total bid price. Said bond or check is to be returned to the bidder unless the proposal is accepted and the bidder fails to execute and file a contract within **10** calendar days after the award of the Contract, in which case the check shall become the property of said San Antonio Water System, and shall be considered as payment for damages due to delay and other inconveniences suffered by said San Antonio Water System due to the failure of the bidder to execute the contract. The San Antonio Water System reserves the right to reject any and all bids.

It is anticipated that the Owner will act on this proposal within **30** calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within **10** calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

It is anticipated that the Owner will provide written Authorization to Proceed within **30** days after the award of the contract.

The work called for in this Contract shall commence on the date indicated in the SAWS written Authorization to Proceed. Under no circumstances shall the work commence prior to the date provided for in the SAWS issued, written Authorization to Proceed. Work shall be completed in full within **42** consecutive calendar days.

The undersigned further acknowledges compliance with "Wage and Labor Standard Provisions" of this contract and the use of the Blue Book rental rates for establishment of equipment rental rates whether owned or leased during the course of this Contract.

In completing the work contained in this proposal the undersigned certifies that bidder's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin and that the bidder will affirmatively cooperate in the implementation of these policies and practices.

Signed: \_\_\_\_\_  
Company Representative

\_\_\_\_\_  
Company Name

\_\_\_\_\_

\_\_\_\_\_  
Address

Please return bidder's check to: \_\_\_\_\_  
Company Name

\_\_\_\_\_

\_\_\_\_\_  
Address

## **SPECIAL CONDITIONS**

### **PROJECT REQUIREMENTS**

- 1.1 The CONTRACTOR shall, to the extent allowed by law, list a landowner or other person or entity with an insurable interest as an additional insured on the Commercial General Liability (CGL) and Commercial/Business Automobile Liability (AL) policy(s) of insurance that CONTRACTOR is required to maintain under this Contract. Landowner shall be added as an additional insured if indicated in the landowner's easement agreement and upon request as needed.
- 1.2 Salado Creek Greenway  
**SPECIAL CONSTRUCTION CONDITIONS FOR THE SALADO CREEK GREENWAY.** Special project procedures are required from the Contractor as specified herein. The Contractor shall implement and maintain the special project procedures outlined below, SAWS E-19 Ira Lee Siphon Work, SAWS Job Number 19-0108, at the appropriate time, prior to and during performance of the work.
- A. Contractor shall complete the work in a manner that does not unreasonably impact the Salado Creek Greenway including impact to recreational activities, park reservations, use of park and trail amenities, vegetation and pedestrian and vehicular access.
  - B. Contractor shall specifically comply with all applicable environmental laws regarding environmental protection of the Salado Creek and surrounding land.
  - C. Contractor shall install temporary "warning, construction ahead" signs as directed by Owner and City of San Antonio (CoSA) prior to and during work. Contractor shall minimize vehicular use of the Salado Creek Greenway Trail to the greatest extent possible, and will direct its subcontractors to take a high degree of care to ensure the safety of park patrons at no additional cost. At a minimum contractor shall install signage at the following locations:
    - i. Oakwell Trailhead (Ira Lee Rd)
    - ii. Tobin Trailhead (Loop 410)
    - iii. Eisenhower Road
  - D. Contractor shall install temporary 6-foot high chain link fence as indicated in the Contract Documents to separate Salado Creek Greenway Trail from work area.
  - E. Contractor shall restore the trail and/or park improvements to the extent disturbed to its prior condition or better.
  - F. Contractor shall complete pipe cleaning, televising, and removal of gates during CoSA Park closure of the Salado Creek Greenway Trail between January 22, 2019 through February 28, 2019.



- G. At the conclusion of the Project, equipment and debris shall be removed by Contractor and Contractor shall restore the site, to the extent disturbed, to the same condition or better as prior to the commencement of work on the Project including, but not limited to, grading, tree plantings, and establishing grass with a native grass mix, to be approved in advance by CoSA.
- H. Following notice to SAWS and reasonable opportunity to cure, CoSA shall have the right and authority to halt any activity within the Property and require the removal of SAWS, its employees, agents, consultants, contractors, and/or subcontractors off the Property.
- I. Absent CoSA consent and except as otherwise provided herein below, Contractor shall not use the Properties for purposes of staging and material storage. Contractor shall seek CoSA's approval in advance of any onsite storage, not to be unreasonably withheld. Contractor will be allowed to only have materials that will be installed within 48 hours of arriving on site. Any materials in excess of this amount must be stored off-site (outside of limits of construction/Properties) at no additional cost to SAWS, (N.S.P.I).
- J. All tree and vegetative trimming and removal planning shall be done in coordination with CoSA Parks and Recreation Department. Contractor shall coordinate with CoSA Arborist office to identify preferred access routes that preserve native vegetation. Contractor shall document any pre-existing tree damage or tree health problems with photographs and in Contractor's pre-construction video.
- K. Contractor is responsible for protection of work, material, and equipment prior to rain events. A considerable portion of the Project is located within the 100-year floodplain and floodway areas of Salado Creek. The project site is susceptible to quickly rising water in response to rainfall events. No material shall be stored in the 100-year floodplain longer than the end of the shift in which it was generated. Contractor is solely responsible for protecting trenches, pits, materials and equipment from damage/inundation of flood waters. Roadways to the project site can be expected to be blocked-off as low water crossings during storm events and for extended periods thereafter. Contractor shall coordinate with SAWS to determine whether Contractor may return to work onsite after a heavy rain event / park closure.
- L. Contractor's employees shall only be allowed to park their personally owned vehicles in areas allowed and approved by CoSA.

1.3 Bypass Pumping Submittal

- A. Contractor shall submit shop drawings for the Bypass Pumping Small and Large Diameter Sanitary Sewer submittal per SAWS Specifications 864-S1 and 864-S2 **prior to or by the pre-construction meeting being held on January 21, 2019.**

**REVISION TO STANDARD SPECIFICATION ITEM NO. 864-S1 BYPASS PUMPING  
(SMALL DIAMETER SANITARY SEWERS)**

864.1 DESCRIPTION

No change

864.2 REFERENCE STANDARDS

No change

864.3 SUBMITTALS

No change

864.4 EQUIPMENT AND MATERIALS

No change

864.5 CONSTRUCTION

The statement below is to be added at the end of this section.

*12. Contractor shall monitor weather events daily and report potential events that may impact peak wet weather flow conditions. Contractor shall monitor bypass flows and report any increase in flows of more than 10% or flows exceeding bypass pumping capacity, whichever is less.*

*Contractor shall install a level sensor to verify that the bypass set up is not surcharging the line and/or creating issues upstream of the bypass suction site. Level sensor should be installed in the manhole upstream of the suction manhole/structure.*

864.6 TESTING AND QUALITY CONTROL

No change

864.7 MEASUREMENT AND PAYMENT

The statement to be replaced currently reads as follows:

*Measurement for the work specified herein will be by lump sum as required by the contractor documents. Payment of the "Lump Sum" bid for Bypass Pumping shall be in accordance with the following: Any effort required for multiple set-ups and operations shall be included in the lump sum price.*

- 1. When initial set-up and operation of the bypass pumping system begins (including a successful test), 20% of the "Lump Sum" cost will be paid as applicable to the bypass system used; stationary bypass pumping or pump and haul bypass systems.*
- 2. 60% of the "Lump Sum" cost will be paid over equal monthly payments (estimated*

*from the BPP or other documentation approved by the Inspector) during the course of the bypass pumping operation as applicable to the bypass system used; stationary bypass pumping or pump and haul bypass systems.*

3. *20% of the remaining "Lump Sum" cost will be paid upon an acceptable removal and/or disassembly of all components of the BPP, including site cleanup as applicable to the bypass system used: stationary bypass pumping or pump and haul bypass system.*
4. *For multi-bypass pumping setups, payment will be proportional to the overall amount of the established bid line item.*
5. *Measurement of the work for pipe plugs shall be incidental to the work and will not have a separate pay item.*

*Any damages, repairs, etc., to private and public property will not be considered any additional payment.*

The above statement is to be replaced with the following:

1. *Measurement of bypass work specified herein will be measured by the following:*
  - i. *Bypass Initial Setup will be by "lump sum" and as required by the contract documents. Payment of the "lump sum" bid for Bypass pumping initial setup shall be in accordance with the following: Any effort associated with the initial mobilization, piping setup, and installation of doghouse manholes.*
  - ii. *Bypass Demobilization/Remobilization will be by "each" and as required by the contract documents. Payment of "each" bid for Bypass Pumping shall be in accordance with the following: Any effort required for the demobilization and remobilization of all bypass pumping systems shall be included in the per each price.*
  - iii. *Bypass Operation and Maintenance will be by weeks and as required by the contract documents. Payment of the "Weeks" bid for bypass pumping operations and maintenance shall begin immediately after the bypass pumping system has passed a successful 24-hr test and is fully functional. Week shall be defined as seven calendar days.*
2. *When initial set-up and operation of the bypass pumping system begins (including a successful 24-hr test), 70% of the "Lump Sum" cost for initial setup will be paid as applicable to stationary bypass pumping.*
3. *The remaining 30% of the initial setup cost will be paid upon an acceptable removal and/or disassembly of all components of the BPP, including site cleanup as applicable to stationary bypass pumping to include flow diversion if used.*
4. *Bypass Demobilization/Remobilization is to be used for unforeseen scenarios that cause CONTRACTORS to demobilize from the project site. Scenarios include but are not limited to local flooding events and events that cause bypass flows to*

*exceed the peak wet weather flows and surpass bypass pumping capacity of the system. 50% of the line item will be paid for demobilization of the bypass pumping system and remaining 50% will be paid for when contractor has remobilized, tested bypass, and bypass is fully functional. Please note that contractor shall not demobilize until written authorization is provided by owner. If contractor demobilizes prior to owner's written authorization, contractor shall not be compensated.*

5. *Any damages, repairs, etc., to private or public property will not be considered for any additional payment.*
6. *Measurement of the work for pipe plugs and transmitter shall be incidental to the work and will not have a separate pay item.*

**END OF SECTION**

**REVISION TO STANDARD SPECIFICATION ITEM NO. 864-S2 BYPASS PUMPING  
(LARGE DIAMETER SANITARY SEWERS)**

864.1 DESCRIPTION

No change

864.2 REFERENCE STANDARDS

No change

864.3 SUBMITTALS

No change

864.4 EQUIPMENT AND MATERIALS

No change

864.5 CONSTRUCTION

The statement below is to be added at the end of this section.

*13. Contractor shall monitor weather events daily and report potential events that may impact peak wet weather flow conditions. Contractor shall monitor bypass flows and report any increase in flows of more than 10% or flows exceeding bypass pumping capacity, whichever is less.*

*Contractor shall install a level sensor to verify that the bypass set up is not surcharging the line and/or creating issues upstream of the bypass suction site. Level sensor should be installed in the manhole upstream of the suction manhole/structure.*

864.6 TESTING AND QUALITY CONTROL

No change

864.7 MEASUREMENT AND PAYMENT

The statement to be replaced currently reads as follows:

- 1. Measurement for the work specified herein will be by lump sum as required by the contractor documents. Payment of the "Lump Sum" bid for Bypass Pumping shall be in accordance with the following: Any effort required for multiple set-ups and operations shall be included in the lump sum price.*
- 2. When initial set-up and operation of the bypass pumping system begins (including a successful test), 20% of the "Lump Sum" cost will be paid as applicable to stationary bypass pumping to include flow diversion if used.*

3. *60% of the “Lump Sum” cost will be paid over equal monthly payments (estimated from the BPP or other documentation approved by the Inspector) during the course of the bypass pumping operation as applicable to stationary bypass pumping to include flow diversion if used.*
4. *20% of the remaining “Lump Sum” cost will be paid upon an acceptable removal and/or disassembly of all components of the BPP, including site cleanup as applicable to stationary bypass pumping to include flow diversion if used.*
5. *For multi-bypass pumping setups, payment will be proportional to the overall amount of the established bid line item.*
6. *Any damages, repairs, etc., to private and public property will not be considered for any additional payment.*
7. *Measurement of the work for pipe plugs and transmitter shall be incidental to the work and will not have a separate pay item.*

The above statement is to be replaced with the following:

1. *Measurement of bypass work specified herein will be measured by the following:*
  - i. *Bypass Initial Setup will be by “lump sum” and as required by the contract documents. Payment of the “lump sum” bid for Bypass pumping initial setup shall be in accordance with the following: Any effort associated with the initial mobilization, piping setup, and installation of suction/discharge structures and/or doghouse manholes required for a successful setup and 24-hr test.*
  - ii. *Bypass Demobilization/Remobilization will be by “each” and as required by the contract documents. Payment of “each” bid for Bypass Pumping shall be in accordance with the following: Any effort required for the demobilization and remobilization of all bypass pumping systems shall be included in the per each price.*
  - iii. *Bypass Operation and Maintenance will be by weeks and as required by the contract documents. Payment of the “Weeks” bid for bypass pumping operations and maintenance shall begin immediately after the bypass pumping system has passed a successful test and is fully functional. Week shall be defined as seven calendar days.*
2. *When initial set-up and operation of the bypass pumping system begins (including a successful 24-hr test), 70% of the “Lump Sum” cost for initial setup will be paid as applicable to stationary bypass pumping.*
3. *The remaining 30% of the initial setup cost will be paid upon an acceptable removal and/or disassembly of all components of the BPP, including site cleanup as applicable to stationary bypass pumping to include flow diversion if used.*
4. *Bypass Demobilization/Remobilization is to be used for unforeseen scenarios that cause CONTRACTORS to demobilize from the project site. Scenarios include but*

*are not limited to local flooding events and events that cause bypass flows to exceed the peak wet weather flows and surpass bypass pumping capacity of the system. 50% of the line item will be paid for demobilization of the bypass pumping system and remaining 50% will be paid for when contractor has remobilized, tested bypass, and bypass is fully functional. Please note that contractor shall not demobilize until written authorization is provided by owner. If contractor demobilizes prior to owner's written authorization, contractor shall not be compensated.*

5. *Any damages, repairs, etc., to private or public property will not be considered for any additional payment.*
6. *Measurement of the work for pipe plugs and transmitter shall be incidental to the work and will not have a separate pay item.*

**END OF SECTION**

## **PART 1 - GENERAL**

### 1.01 RELATED DOCUMENTS:

A. Drawings and Contract Documents.

### 1.02 GENERAL

A. Project Location

1. The E-19: Ira Lee Siphon Work Project, is located immediately south of the Austin Highway and Ira Lee Road intersection near Salado Creek.

## **PART 2 - PROJECT SCOPE**

### 2.01 SCOPE OF WORK

- A. This section describes the Project in general and provides an overview of the extent of the Work to be performed by the CONTRACTOR. Detailed requirements and extent of work is stated in the applicable Specification Sections and shown on the Drawings. CONTRACTOR shall, except as otherwise specifically stated herein or in any applicable part of these Contract Documents, provide and pay for all labor, materials, equipment, tools, construction equipment, and other facilities and services necessary for proper execution, testing, and completion of the Work.
- B. Flow in the existing 48-inch sanitary sewer main experiences surcharges regularly within the sanitary sewer system. The existing double barrel 39-inch sanitary sewer siphon located south of Austin Highway is assumed to be a source of constricting flow. The project will consist of approximately 2,000 LF of bypass pumping operations to isolate the existing double barrel 39-inch sanitary sewer siphon and two (2) 90°± turns on the sewer main. Once bypassed approximately 1,000 LF of 48-inch and 375 LF of 39-inch sewer main will require medium cleaning/debris removal. At the start of this Contract the CONTRACTOR shall verify all permits, specifications and segments depicted in the design plans and Contract Documents.
- C. The Work shall include furnishing all tools, labor, materials, equipment, and miscellaneous items necessary to complete the bypass and complete removal of debris within the existing sanitary sewer mains.
  1. The various sanitary sewer improvement items include, but are not limited to, the following:
    - a. By-pass pumping as required to perform the above-mentioned work, approximately 2,000 LF of bypass piping. **CONTRACTOR shall provide a bypass plan based on Peak Wet Weather Flow (MGD).** CONTRACTOR shall monitor the weather for potential flows exceeding the bypass system



capacity and how it will avoid having to bypass flows exceeding bypass system capacity per SAWS Standard Specification for Construction 864-S2, section 864.3 (h).

Flow from MH ID (47428)

- Average Day Flow (MGD) – 22.3
- Peak Dry Weather Flow (MGD) – 28.7
- Peak Wet Weather Flow (MGD) – 37.2

Flow from Unit ID (48419)

- Average Day Flow (MGD) – 0.80
- Peak Dry Weather Flow (MGD) – 1.2
- Peak Wet Weather Flow (MGD) – 4.8

- b. Dewater standing wastewater within sewer main, siphon, and siphon boxes prior to cleaning and debris removal.
- c. Remove debris within existing 48-inch sewer main and double barrel 39-inch sewer siphon.
- d. Post-televiser existing sanitary sewer main, siphon boxes and siphon pipes.
- e. Remove existing slide gates from both siphon boxes. Any damage to the siphon box during removal of gates shall be restored and considered incidental to the work. CONTRACTOR to use extreme caution when removing gates from siphon boxes as to not cause structural damage to siphon boxes.

#### D. Site Restoration

1. All site restoration is considered incidental to the work and should be included in the overall bid. No separate pay shall be made for landscaping, irrigation, sidewalks, or pavement restoration unless otherwise shown in the contract documents.
2. It is the CONTRACTOR's responsibility to protect all existing landmarks, surface features, and existing above and below ground infrastructure.

## 2.02 SEQUENCE OF WORK

### A. General

1. Following OWNER and ENGINEER approval of the detailed sequence plan to be provided by CONTRACTOR, the CONTRACTOR shall give the OWNER a minimum of 48-hour notice before beginning each phase of construction. Perform the work as required to complete the entire project within the contract time and in the general sequence stipulated below.
2. The CONTRACTOR shall perform work while the sanitary sewer system remains in service during the construction period. CONTRACTOR shall review the critical areas

listed below and develop a comprehensive detailed sequence plan that includes sequencing of bypass pumping and submit to OWNER and ENGINEER for review prior to beginning construction. Some construction activities may be conducted concurrently of development and approval of the sequencing plan. Some construction activities may require temporary bypass pumping, bulkheads, temporary plugs, and use of stop planks. Bypass pumping requirements are specified in Section SS 864-S1 and 864-S2. CONTRACTOR is responsible for providing temporary bulkheads, stop planks, plugs, pumps and other equipment, as required, at no additional cost to the OWNER. CONTRACTOR shall plan for the use of temporary plugs and pumping for installation of and leakage from the temporary bulkheads, and stop planks. Completion dates of the various sequenced stages shall be in accordance with the accepted construction schedule submitted by the CONTRACTOR.

**B. Work**

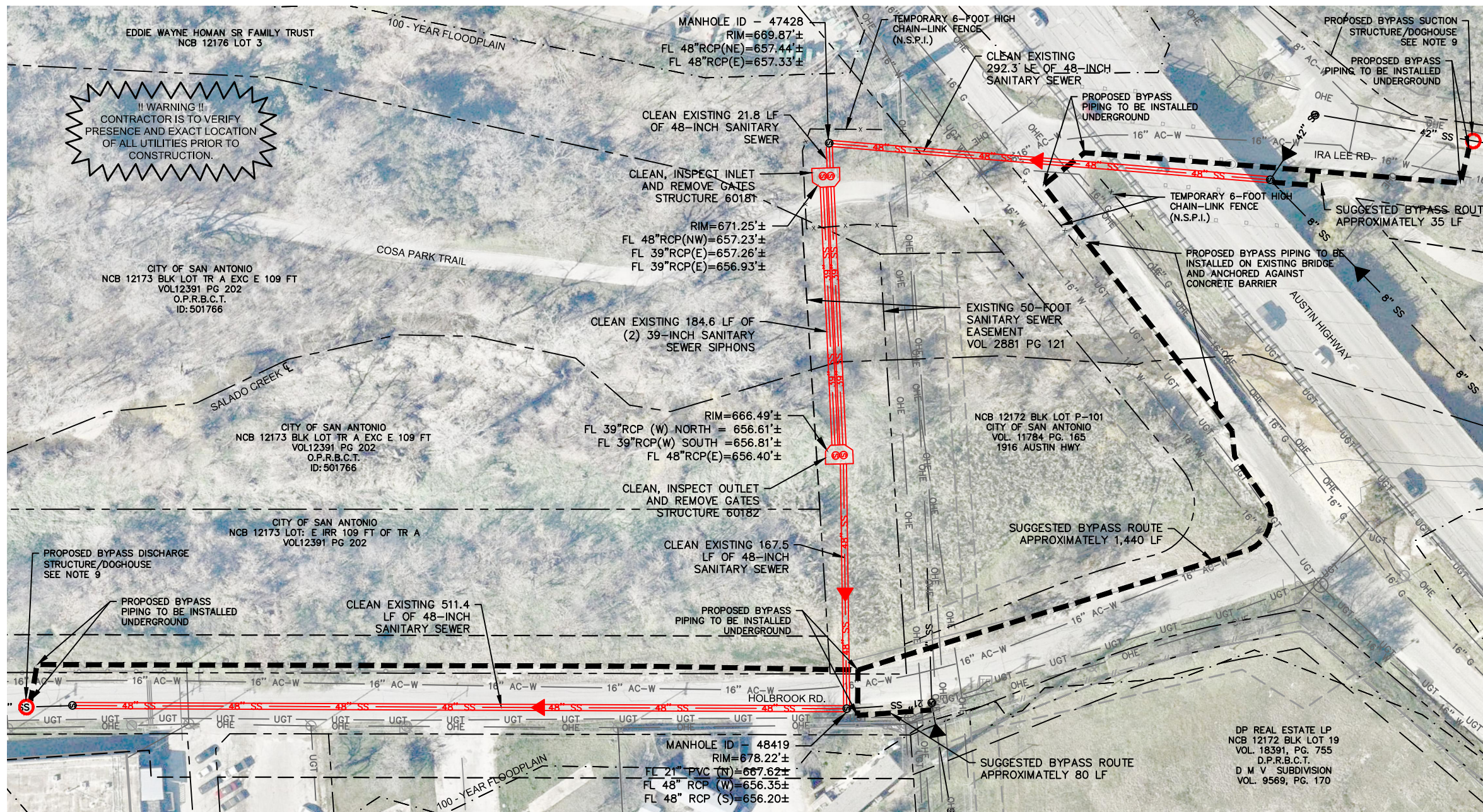
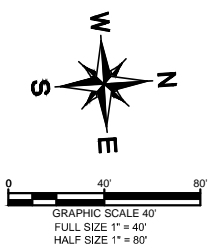
1. The work within the Phase shall proceed in the following order as needed:
  - a. CONTRACTOR shall prepare right-of-way and mobilize.
  - b. CONTRACTOR shall install bypass pumping as required in accordance with contract documents and item No. 864-S1 and 864-S2 Bypass Pumping of the SAWS Standard Specifications for Construction.
  - c. CONTRACTOR shall dewater standing wastewater within sewer main, siphon, and siphon boxes prior to cleaning and debris removal. Please note that CONTRACTOR may need to dewater multiple times or as needed due to cleaning operations and televising.
  - d. CONTRACTOR shall remove existing slide gates from both siphon boxes. Any damage to the siphon box during removal of gates shall be restored and considered incidental to the work. CONTRACTOR to use extreme caution when removing gates from siphon boxes as to not cause structural damage to siphon boxes.
  - e. Clean and remove debris from existing 48-inch sewer main and double barrel 39-inch sewer siphon.
  - f. CONTRACT shall post televise existing double barrel 39-inch siphon and 48-inch sanitary sewer main per plans.
  - g. Site Restoration.
2. The CONTRACTOR agrees to cooperate and coordinate its work with the work conducted by other CONTRACTOR(S) within the project area so that this project can be completed in an orderly and coordinated manner, reasonably free of significant disruption to any party. Without limitation of the foregoing, CONTRACTOR understands and agrees that access areas to the project site may be utilized by other CONTRACTOR(S). All parties shall be solely required and obligated to cooperate and coordinate with each other to accomplish the scope of work required by their respective contracts, meaning SAWS shall have no duty to administer, perform or supervise the coordination for the use of the project site by all contractors. The CONTRACTOR agrees that any delay or

hindrance caused by or contributed to by failure to cooperate and/or coordinate among all parties will be governed by this Section and Section 6.7.1 of the General Conditions (commonly referred to as a “no damages for delay” clause).

**C. Bypass Pumping Plan**

1. The CONTRACTOR is responsible for the Bypass Pumping plan that shall support the construction sequence as listed above. The CONTRACTOR shall be responsible for the development, submittal, and approval of bypass pumping plan to comply with Specification 864-S1 and 864-S2 and the Construction Phasing.
2. The Bypass Pumping Plan is required to have all of the pipes, fittings, pumps, equipment, materials, concrete pads, etc. placed within the existing sanitary sewer easements or right-of-way.
3. CONTRACTOR shall anchor or install bypass piping underground as permitted when installing bypass piping within the 100-year floodplain. CONTRACTOR to submit an anchorage plan per SAWS Standard Specification for Construction 864-S2, Section 864.3 Part 4t. Contractor to locate all utilities prior to excavating. If local flooding event occurs within project site CONTRACTOR shall remove bypass piping or ensure that piping will remain in place during flooding event. If piping is dislodged due to flooding event CONTRACTOR shall repair any damage caused by contractor’s equipment/material at no additional cost to SAWS.

END OF SECTION 01010



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D - 2" THICK	SY	213
206	ASPHALTIC TREATED BASE - 6" THICK	SY	256
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING	LS	1
864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (INITIAL SETUP)	LS	1
864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (DEMOLITION/REMOBILIZATION)	EA	2
864-S1	BYPASS PUMPING AND FLOW MANAGEMENT SMALL DIAMETER SANITARY SEWER (OPERATION AND MAINTENANCE)	WKS	6
864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SANITARY SEWER (INITIAL SETUP)	LS	1
864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SANITARY SEWER (DEMOLITION/REMOBILIZATION)	EA	2
864-S2	BYPASS PUMPING AND FLOW MANAGEMENT LARGE DIAMETER SEWER (OPERATION AND MAINTENANCE)	WKS	6
866.3	SEWER MAIN POST TELEVISION INSPECTION (30" OR LARGER)	LF	1362.2
868.1	SANITARY SEWER SYSTEM CLEANING - MEDIUM (AVG. 40% PIPE DEPTH)	LF	993.0
GENERAL	CLEAN 39-INCH SIPHON PIPE LINE FROM INLET BOX 60181 TO OUTLET BOX 60182	LF	369.2
GENERAL	CLEAN AND INSPECT INLET BOX STRUCTURE 60181	EA	1
GENERAL	CLEAN AND INSPECT OUTLET BOX STRUCTURE 60182	EA	1
GENERAL	SIPHON GATE REMOVAL	LS	1
100.1	MOBILIZATION	LS	1
101.1	PREPARING RIGHT-OF-WAY	LS	1

FLOW TABLE			
MANHOLE ID	AVG. DRY WEATHER FLOW (MGD)	PEAK DRY WEATHER FLOW (MGD)	PEAK WET WEATHER FLOW (MGD)
47428	22.3	28.7	37.2
48419	0.8	1.2	4.8

\* NO SEPARATE PAY ITEM (N.S.P.I.)

- CONSTRUCTION SEQUENCING**
- PHASE 1:**
- 1A. INSTALL AND TEST BYPASS SETUP.
- PHASE 2:**
- 2A. DEWATER EXISTING SANITARY SEWER LINE AND SIPHON.
  - 2B. REMOVE EXISTING GATES FROM SIPHON BOXES.
  - 2C. CLEAN EXISTING (2) 39-INCH SIPHONS AND DISPOSE OF ALL MATERIAL.
  - 2D. CLEAN REMAINING 48-INCH SANITARY SEWER LINE BEING BYPASSED.
- PHASE 3:**
- 3A. POST-TELEVISION EXISTING SANITARY SEWER LINES AND SIPHON.
  - 3B. PLACE SANITARY SEWER LINE BACK IN SERVICE.

- NOTES:**
1. CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR TO NOTIFY COSA PARKS 1-WEEK IN ADVANCE PRIOR TO MOBILIZING EQUIPMENT AND MATERIAL ADJACENT TO COSA PARKS TRAIL.
  2. MULTIPLE CONTRACTORS MAY BE PRESENT IN THE AREA AND ON-GOING CONSTRUCTION ACTIVITIES FOR SAWS E-19 SEGMENT 1 AND 2 PROJECTS. CONTRACTOR SHALL HAVE CONTINUOUS COMMUNICATION WITH SAWS INSPECTOR AND SEQUENCE WORK TO MINIMIZE DISRUPTION TO SAWS E19 SEGMENT 1 AND 2 ACTIVITIES. CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENTIAL AND COMMERCIAL BUSINESSES AT ALL TIMES.
  3. CONTRACTOR SHALL COORDINATE WITH SAWS CREWS DURING BYPASS AND CLEANING OPERATIONS UNTIL SANITARY SEWER LINE IS PUT BACK IN SERVICE.
  4. CONTRACTOR TO RESTORE STAGING AND OTHER AREAS IMPACTED BY SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS TO PRE-EXISTING CONDITIONS OR BETTER (NO SEPARATE PAY ITEM).
  5. SCOPE OF WORK IS TO OCCUR ADJACENT TO THE CITY OF SAN ANTONIO SALADO GREENWAY. IN THESE AREAS, (WITHIN 50- FEET OF TRAIL) CONTRACTOR IS DIRECTED TO PLACE TEMPORARY CONSTRUCTION 6-FOOT CHAIN-LINK FENCE ON GROUND BETWEEN SAWS WORK AND THE GREENWAY SO THAT USERS OF THE GREENWAY WILL BE UNABLE TO ENTER WORK ZONE. CONTRACTOR SHALL ALSO TAKE A HIGH DEGREE OF CARE TO ENSURE THAT GREENWAY PATRONS ARE KEPT SAFE (N.S.P.I.)
  6. CONTRACTOR SHALL REMOVE DEBRIS AND BUILD-UP ACCUMULATED INSIDE EXISTING SANITARY SEWER SIPHONS AND OTHER SEGMENTS OF PIPELINE AS NECESSARY TO COMPLETE MEDIUM CLEANING OF EXISTING SEWER PIPE AND SIPHON. COST OF DEBRIS REMOVAL WILL BE PAID BY LINEAR FOOT UNDER ITEM 868.1 "SANITARY SEWER SYSTEM CLEANING (MEDIUM)" REGARDLESS OF METHOD USED. MEDIUM CLEANING SHALL BE DEFINED ON AVERAGE DEBRIS REMOVAL OF 40% PIPE DEPTH.
  7. SCOPE OF WORK IS LOCATED WITHIN 100-YEAR FLOODPLAIN. CONTRACTOR SHALL ANCHOR AND/OR INSTALL BYPASS PIPING UNDERGROUND WHERE PERMITTED.
  8. ANY TREES THAT MAY REQUIRE TRIMMING OR REMOVAL IN ASSOCIATION WITH THIS WORK, TO BE COORDINATED WITH COSA ARBORIST.
  9. BYPASS WORK MAY REQUIRE ADDITIONAL SUCTION AND DISCHARGE STRUCTURES/DOGHOUSE MANHOLES TO ACCOMMODATE BYPASS PIPING AND SYSTEM. CONTRACTOR SHALL DEVISE A MEAN AND METHOD TO SUCCESSFULLY INSTALL BYPASS SYSTEM AND INCLUDE COST OF SUCTION/DISCHARGE STRUCTURES AND/OR DOGHOUSE MANHOLES IN LINE ITEM 864-S2 AND 864-S1 BYPASS PUMPING AND FLOW MANAGEMENT (INITIAL SETUP).
  10. WHEN EXCAVATING CONTRACTOR SHALL VERIFY THE PRESENCE AND LOCATION OF ALL UTILITIES. PLEASE NOTE THAT A NEW 16-INCH WATERLINE WAS INSTALLED ALONG HOLBROOK ROAD BY E19 SEGMENT 2 CONTRACTOR. GENERALLY THE NEW 16-INCH WATERLINE IS LOCATED PARALLEL AND ON THE WEST SIDE OF HOLBROOK CLOSE TO THE EXISTING 16-INCH AC WATERLINE. IF AC WATERLINE IS ABANDONED BY THE TIME THIS PROJECT BEGINS CONTRACTOR CAN REMOVE AC PIPE FOR EASE OF BYPASS INSTALLATION AT NO ADDITIONAL COST TO SAWS. CONTRACTOR TO COORDINATE WITH E19 SEGMENT 2 SAWS INSPECTOR FOR LOCATION OF NEW WATERLINE.

## Kimley»Horn

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Fax No. 210-541-8699

No.	Revision	By	Date
ADDENDUM 2		MAV	12/12/18

**E-19: IRA LEE SIPHON WORK**

SHEET

**LINE CLEANING & SUGGESTED BYPASS ROUTE**

DATE: DECEMBER 2018	SAWS PROJECT NO. 19-0108	SHEET NO. <b>CI</b>
DESIGN: MAV	KHA PROJECT NO. 068665018	
DRAWN: MAV		
CHECKED: JAF		

PLOTTED BY: VALDEZ, MARIO 12/12/2018 3:03 PM  
 K:\SNA UTILITIES\068665018 - SAWS E19 - CONSTRUCTION\SIG\24\CAD\SHSHEETS - SAWS E19 SIPHON SIG\248665018.DWG  
 12/12/2018 3:03 PM