



Multiple Sewershed Package 15: CIPP Project
Solicitation No. CO-00654
Job No.: 23-4507

ADDENDUM NO. 2
October 10, 2023

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.

RESPONSES TO QUESTIONS

1. Question: Will Kerneos SewperCoat PG be accepted as the protective coating for the interiors of Siphon and Diversion Structure?

Response: No, we will not accept Kerneos SewperCoat PG for the interior walls rehabilitation work of Siphon Structure No.1, Siphon Structure No.5, and Diversion Structure No.5 at Pecan Grove. Please see Special Specifications Section 910S (Sewer Structures Rehabilitation) for accepted two-systems protective coating.

2. Question: Will the owner provide a water meter for water usage?

Response: Contractor shall obtain water meter and/or backflow devices from SAWS. Contractor should not invoice water as a line item, but rather SAWS will charge contractor based on actual usage.

3. Question: Some of the lines to be rehabilitated tie into manholes which are being installed on other SAWS jobs, will those manholes be installed by NTP?

Response: The manholes for the General Hudnell site and the one manhole for the IH-35 at Whirlwind site may not be installed by the NTP for this project, therefore these locations should be scheduled near the end of construction and/or after the noted manholes are installed. Special Condition SC15 has been updated to address this item.

4. **Question: At Site No 2, the suggested concrete access path via the golf course is not wide enough to facilitate equipment/materials trucking, is there an agreement with the property Owner as to how the property will be repaired if damaged during access and who would cover that cost?**

Response: Please refer to Special Condition SC17, which notes the following: "The CONTRACTOR shall place protective mats or other devices to protect the golf course and cart path as no separate pay item" and "The CONTRACTOR shall place temporary fencing around work areas and bypass pumping equipment to designate the work areas for possible golfers as no separate pay item. The CONTRACTOR shall also repair any portion of the golf course or cart path damaged by the CONTRACTOR by using the required Latitude36 Bermuda Grass, typically supplied by Thomas Turfgrass Farms, used by the golf course as no separate pay item."

5. **Question: Will the Owner provide access to the locked park gate at Al Forge Park at Site No 4?**

Response: COSA will provide a key to the park gate at Al Forge Park. Please refer to the updated Special Condition SC18 included with this Addendum.

6. **Question: Can the Ground Elevations and Invert Elevations be provided for MH's 51284, 11461, 24086, 10900, 24627, 24626, 20125, 3989686, 19170, 1154761, 3989679, 34953?**

Response: The plan sheets have been updated and included with this addendum to include the top of manhole elevation and inverts at all tie-in manholes for information purposes.

7. **Question: Segment 10900 to 24627 is called out for CIPP on Sheet S28 and also called out for Pipebursting on S27. Can you please clarify?**

Response: Sheet S27 has been updated to note the pipe to be rehabbed via CIPP as shown on Sheet S28.

8. **Question: CIPP standard specification section 901.4-3.e.6 requires a soil modulus of 500 psi be used in the CIPP thickness designs, but this soil modulus is overly conservative and will produce CIPP thicknesses that are thicker than needed, which will increase the difficulty of installation and overall project cost. On previous projects, this section has been replaced with language saying the Contractor was allowed to submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values were part of the sealed calculations, the calculation method complied with ASTM F1216, and the soil modulus utilized did not exceed 1,000 psi. Please confirm that the Contractor will again be allowed to use values other than 500 psi for the soil modulus on this project.**

Response: The contractor may use a soil modulus differing from 500 psi, but must provide backup data and calculations, signed and sealed by a licensed Professional Engineer in the State of Texas, for the different soil modulus for review and approval by SAWS and the Design Engineer.

9. **Question: Your estimated budget is \$10,000,000.00; however, this seems too high for a final price based on the scope. What is your engineering estimate?**

Response: The estimated budget associated with this project advertisement has been revised from \$10 million to \$9.8 million. Contractors are encouraged to carefully review the plans and specifications to understand all factors and costs involved in the work.

CHANGES TO THE SPECIFICATIONS

1. **BUILDING WAGE DECISION**, Due to updates in the General Wage Decisions for Building Construction Type, remove the wage decision documents from the solicitation in entirety and replace with the revised versions attached to this addendum (rev. 9.1.23 for General Decision Number TX20220231). This version should be utilized by the awarded contractor for this project.
2. Remove Special Conditions (Page Numbers SC-1 thru SC-12) in its entirety and replace with the attached Special Conditions that updates Special Condition SC4 to provide UPRR permit expiration dates and when the contractor will receive the executed permits, Special Condition SC15 to include clarity on the manholes being installed as part of SAWS Job #19-4508, Special Condition SC17 to update the contact for the Olmos Basic Golf Course and Special Condition SC18 to add the right-of-entry requirements for Al Forge Park.
3. The estimated cost for this project has changed to \$9,800,000.00, which is now reflected on SAWS website at the following linked location:
https://apps.saws.org/Business_Center/Contractsol/Drill.cfm?id=4275&View=Yes

CHANGES TO PLANS

1. **Remove and replace Page S20 of Plan Set 1 of 2 with the page dated 10/3/2023 that updates the Olmos Basic Golf Course contact.**
2. **Remove and replace Pages S15, S27, S29, S35, S36, and S38 of Plan Set 1 of 2 with the page dated 10/5/2023 that provides top of manhole elevations and invert elevations for tie-in manholes.**

END OF ADDENDUM

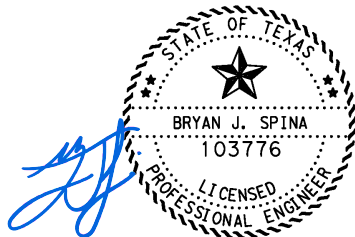
This Addendum is twenty-nine (29) pages in its entirety including attachments.

Attachments:

General Wage Decision Number TX20220231 (rev. 9.1.2023), 7 pages

Special Conditions, 12 pages

Plan Set 1 of 2 Sheets S15, S20, S27, S29, S35, S36, and S38, 7 Pages



10/10/2023

Bryan J. Spina, P.E., CFM
LNV, LLC
TBPLES Firm No. F-366

"General Decision Number: TX20230231 09/01/2023

Superseded General Decision Number: TX20220231

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

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

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022: Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022: Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

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

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

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023

2 02/03/2023
3 04/14/2023
4 08/25/2023
5 09/01/2023

ASBE0087-014 06/04/2023

Rates Fringes

ASBESTOS WORKER/HEAT & FROST
INSULATOR (Duct, Pipe and
Mechanical System Insulation)....\$ 28.95 8.39

BOIL0074-003 01/01/2021

Rates Fringes

BOILERMAKER.....\$ 29.47 24.10

ELEC0060-003 06/01/2022

Rates Fringes

ELECTRICIAN (Communication
Technician Only).....\$ 31.95 15%+6.41

ELEC0060-004 06/01/2022

Rates Fringes

ELECTRICIAN (Excludes Low
Voltage Wiring).....\$ 31.95 15%+6.41

ELEV0081-001 01/01/2023

Rates Fringes

ELEVATOR MECHANIC.....\$ 46.83 37.335+a+b

FOOTNOTES:

a. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

b. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

ENGI0450-002 04/01/2014

Rates Fringes

POWER EQUIPMENT OPERATOR
Cranes.....\$ 34.85 9.85

* IRON0066-013 06/01/2023

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 26.00 7.53

* IRON0084-011 06/01/2023

Rates Fringes

IRONWORKER, ORNAMENTAL.....\$ 27.51 8.13

PLUM0142-009 07/01/2023

Rates Fringes

HVAC MECHANIC (Electrical
Temperature Control
Installation & Unit
Installation Only).....\$ 35.95 11.25
PIPEFITTER (Including HVAC
Pipe Installation).....\$ 35.95 11.25
Including HVAC Pipe Installation
PLUMBER.....\$ 35.95 11.25
Excludes HVAC Pipe Installation

SFTX0669-002 04/01/2023

Rates Fringes

SPRINKLER FITTER (Fire
Sprinklers).....\$ 34.60 23.30

SHEE0067-004 07/03/2023

Rates Fringes

Sheet metal worker
Excludes HVAC Duct
Installation.....\$ 30.24 15.89
HVAC Duct Installation Only.\$ 30.24 15.89

* SUTX2014-006 07/21/2014

Rates Fringes

BRICKLAYER.....\$ 22.15 0.00
CARPENTER (Acoustical Ceiling
Installation Only).....\$ 17.83 0.00
CARPENTER (Form Work Only).....\$ 13.63 ** 0.00
CARPENTER, Excludes
Acoustical Ceiling
Installation, Drywall
Hanging, Form Work, and Metal
Stud Installation.....\$ 16.86 4.17
CAULKER.....\$ 15.00 ** 0.00
CEMENT MASON/CONCRETE FINISHER...\$ 22.27 5.30
DRYWALL FINISHER/TAPER.....\$ 13.81 ** 0.00
DRYWALL HANGER AND METAL STUD
INSTALLER.....\$ 15.18 ** 0.00
ELECTRICIAN (Low Voltage
Wiring Only).....\$ 20.39 3.04
IRONWORKER, REINFORCING.....\$ 12.27 ** 0.00
LABORER: Common or General.....\$ 10.75 ** 0.00

LABORER: Mason Tender - Brick...	\$ 11.88 **	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00 **	0.00
LABORER: Pipelayer.....	\$ 11.00 **	0.00
LABORER: Roof Tearoff.....	\$ 11.28 **	0.00
LABORER: Landscape and Irrigation.....	\$ 8.00 **	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.98 **	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 14.00 **	0.00
OPERATOR: Bulldozer.....	\$ 14.00 **	0.00
OPERATOR: Drill.....	\$ 14.50 **	0.00
OPERATOR: Forklift.....	\$ 12.50 **	0.00
OPERATOR: Grader/Blade.....	\$ 23.00	5.07
OPERATOR: Loader.....	\$ 12.79 **	0.00
OPERATOR: Mechanic.....	\$ 18.75	5.12
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 16.03 **	0.00
OPERATOR: Roller.....	\$ 12.00 **	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.07 **	0.00
ROOFER.....	\$ 12.00 **	0.00
TILE FINISHER.....	\$ 11.32 **	0.00
TILE SETTER.....	\$ 14.94 **	0.00
TRUCK DRIVER: Dump Truck.....	\$ 12.39 **	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50 **	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00 **	4.11

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

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16,20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

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

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

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

Union Rate Identifiers

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

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

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all

rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator

(See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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

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

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

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

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

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END OF GENERAL DECISIO"

Special Conditions

SC1. PROJECT SCOPE

The overall project consists of two plan sets, Set 1 of 2 and Set 2 of 2, which consists of work at five sites.

Plan Set 1 of 2 consists of the overall general notes and quantities for all sites and includes the proposed designs for the following sites: I-35 & Whirlwind Dr., Olmos Basin Golf Course, General Hudnell, and W. Mayfield. The work within Plan Set 1 of 2 consists of open cut replacing 89 linear feet of 36” sanitary sewer main, cured-in-place pipe rehabilitating 1,920 linear feet of 10” sanitary sewer main, 488 linear feet of 12” sanitary sewer main, 901 linear feet of 21” sanitary sewer main, 1,267 linear feet of 24” sanitary sewer main, and 197 linear feet of 36” sewer main, replacing four manholes and rehabilitating 104 vertical feet of existing manholes.

Plan Set 2 of 2 contains the proposed designs for only the Pecan Grove site. The work within Plan Set 2 of 2 consists of open cut replacing 32 linear feet of 48” sanitary sewer main, cured-in-place pipe rehabilitating 32 linear feet of 66” sanitary sewer main, and reconstructing/rehabilitating three sanitary sewer structures. The main project site is located inside a private property at 4714 Pecan Grove Drive, City’s Southside Lions Park, City’s right-of-way, and SAWS existing easements.

SC2. GEOTECHNICAL DATA

A Geotechnical Data Report has been developed for SAWS on this project and has been made available for Contractors for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the potential Bidder as a condition of and prior to the release of the report. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website: https://www.saws.org/business_center/ContractSol/

Find this project, select ‘More’, then ‘Geotechnical Data Report’.

SC3. ADDITIONAL INSURED

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.

- A. Union Pacific Railroad shall be added as additional insured.
 - B. Other entities upon request.
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SC4. UPRR/RAILPROS

The OWNER has entered into pipeline encroachment and crossing agreements with the Union Pacific Railroad Company (UPRR) for installation of sewer improvements located within the UPRR right-of-way. Contractor shall comply with all requirements of the executed agreements between SAWS and UPRR, including but not limited to insurance requirements, settlement monitoring (per Special Specification 5000), and on-site observation and/or inspection through UPRR authorized representatives name in the agreement during all construction and installation work. Copies of the agreements will be provided to the Contractor after award of the project.

Per the Union Pacific Railroad agreements, the Contractor is required to have On-Site Observation of Construction while working on the sanitary sewer within or crossing UPRR right-of-way. The Contractor shall contact the following RailPros contacts and provide them with the required Work Plan Form, Observation Agreement, and all other forms required prior to construction:

- Jason Murray, Director (jason.murray@railpros.com or 248-974-3362) for any questions.
- Bao Doan, Review Engineer (bao.doan@railpros.com or 346-719-7035) for Work Plan questions.
- Marianne O'Bagy, Project Manager (marianne.obagy@railpros.com or 801-815-2884) for Construction Observation requirement questions.

The contractor shall follow UPRR agreement permit requirements and there will be no separate pay item for coordinating with UPRR. SAWS will reimburse the Contractor at-cost per a provided invoice for the required UPRR/RailPros flaggers from the included allowance provided in the contract documents.

As part of the executed agreements, the following forms and/or items will need to be completed by the Contractor with UPRR/RailPros prior to beginning work on each permitted section:

- Complete the Project and Billing Form (to be provided) and email to utilities.office.staff@railpros.com and the Observer Agreement and Flagger Quote and Services Agreement will be sent for processing.
- Email the UPRR representative (contact info found in the fully executed UPRR Agreement for each location) to inform them of construction in their region. Include the fully executed agreement in the email.
- Complete the Work Plan Form (to be provided) and submit to utilities.office.staff@railpros.com.
- Email the UP Manager Signal Maintenance (contact info found in the fully executed UPRR Agreement for each location) and give the depth of the casing, the MP and Subdivision given in the Exhibit A of the executed UPRR Agreement, so they can locate the UPRR Signal Cables. Ask them to reply to your email with any instructions.
- Call 1-800-336-9193 to generate an active ticket or to renew an existing ticket to locate all UPRR telecommunication cables. Forward the CBUD Ticket to utilities.office.staff@railpros.com. Each contractor digging or drilling on the UPRR property must be named on the ticket.

Also, please make sure to review the UPRR PPE Requirements at the following location:
https://www.up.com/cs/groups/public/@uprr/@suppliers/documents/up_pdf_nativedocs/pdf_up_supplier_safety_req.pdf

The UPRR permits for this project are:

Permit Location	Permit Type	Folder #	Status	Expiration Date
IH-35 & Whirlwind Dr.	Encroachment	07911-30	Pending	8/15/2024
Olmos Basin Golf Course	Temporary Right-of-Entry	03263-29	To be completed by Contractor, if needed	
General Hudnell	Encroachment	07911-29	Pending	8/15/2024
W. Mayfield Blvd.	Encroachment	07911-32	Pending	8/15/2024

All fully executed permits received to date by SAWS are attached at the end of the contract documents. Permits noted with a Status of “Pending” will be provided to the contractor once received after award of the project and the contractor shall work on the Pecan Grove Site or Olmos Basin Golf Course Site until those permits are provided. Please note that the contractor is responsible (NSPI) for completing the temporary right-of-entry permit for the Olmos Basin Golf Course for use of UPRR right-of-way for access and working around the project site if the Contractor plans on using the UPRR right-of-way or getting within 25’ of the railroad tracks.

Each UPRR permit contains an expiration date, and the Contractor shall make every effort to begin work at each location before the expiration date given above for each UPRR permit. The permits can be extended upon applying for an extension and paying a fee of approximately \$2,000. The known expiration dates are provided above, and the Contractor shall work with the Engineer and SAWS to apply for any extensions needed due to the scheduling of the project, where due to unforeseen circumstances, the construction for that site cannot begin work before the provided expiration date. **The executed UPRR permits shall be provided to the Contractor prior to beginning construction.**

An allowance has been provided within the Bid Proposal to allow for the Contractor to pay the fee required for the permit extensions on a one-time basis for each permit where unforeseen circumstances not created by the Contractor require a permit to be extended. SAWS will reimburse the Contractor for the permit extension fee after the payment has been made and the receipt of the payment provided. If for any reason a permit extension is needed due to a delay created by the Contractor or a second permit extension is required on a specific permit, the Contractor shall pay the permit extension fee at no cost to SAWS or the Engineer.

SC5. TXDOT

No TXDOT permits have been acquired for this project. If the Contractor requires the use of TXDOT’s right-of-way to access any sites, such as the Olmos Basin Golf Course, the Contractor shall be responsible for acquiring any needed permits or temporary access agreements as no separate pay item.

SC6. COSA RIGHT-OF-WAY

Portions of the project lie within the City of San Antonio Right-Of-Way and require a permit from the City. The Contractor is responsible for obtaining the permit and paying the applicable fees before starting work at each applicable location, which includes: Whirlwind Drive, W. Bedford Avenue, Pletz Drive, W. Emerson Avenue, W. Greenway Avenue, Pecan Grove, and W. Mayfield Boulevard. The work to obtain the permit and the permit fees will not be reimbursed or paid for separately, but will be considered subsidiary to the work for each location.

The pavement and concrete curb, driveway and/or sidewalk replacement in the plans is based on current conditions at the time of design and the City of San Antonio (COSA) Right-Of-Way Inspector may require additional pavement or concrete work. If the additional work is based on the Contractor damaging the pavement or concrete curb, driveway and/or sidewalks in the area, the additional work to comply with the permit will not be paid for separately and will be at the Contractor's cost. If additional work is based on a revision to the Pavement Condition Index or Inspector's decision and the work requested was not due to damage caused by the Contractor, SAWS will review the requested items from the City and allow a change order based on approved bid items.

SC7. OTHER PERMITS

SAWS will obtain applicable Floodplain Development Permits and Tree Permits from the City of San Antonio for the project.

In placing the temporary bypass pipelines across Salado Creek for the Pecan Grove portion of the project, the CONTRACTOR shall also comply with the Texas Park and Wildlife Department's general requirements for protection of aquatic species and the U.S. Army Corps of Engineers Nationwide Permit No. 58 general requirements. CONTRACTOR's effort to comply with these requirements is considered to be subsidiary to the work to install/provide a complete temporary bypass system as required to perform the work in this project and will be paid under item 864-S2 (Large Diameter Bypass Pumping System).

SC8. POLE BRACING

The CONTRACTOR shall coordinate and pay for the bracing of utility poles with CPS Energy. There will be no separate pay item for coordinating with CPS Energy. SAWS will reimburse the Contractor at-cost per a provided invoice for the required CPS Pole Bracing from the included allowance provided in the contract document.

SC9. SUGGESTED ACCESSIBLE ROUTES

The Suggested Accessible Routes shown within the plans denotes the route suggested to be used to access the sewer segments to be improved for the project. Right of Entries to Construct have been acquired for locations shown on private property and City of San Antonio properties.

The CONTRACTOR shall protect the existing infrastructure and surfaces within these locations, and if anything is damaged during construction, the CONTRACTOR shall reconstruct and replace the surfaces to existing or better than existing conditions. This item will not be paid for separately and will be considered subsidiary to Item 101 "Preparing Right-of-Way." Any temporary drivable surface used to protect the existing surface will need to be completely removed upon completion of the construction in the area. Any temporary drivable surface used within UPRR Right-of-Way cannot be placed within twenty (20) feet of the active Union Pacific Railroad tracks.

SC10. SPECIFICATIONS

All work performed shall be in accordance with the Contract Documents and the San Antonio Water System Specifications for Water and Sanitary Sewer Construction (February 2017), these Special Conditions, the current Texas Department of Transportation Standard Specification for Construction of Highways, Streets, and Bridges, the current City of San Antonio Standard Specifications for Public Work Construction, City of San Antonio Utility Excavation Critical Manual, or specifications and requirements of any other governing jurisdiction that may apply.

SC11. DUST, NOISE AND ODOR CONTROL

Some project sites are located adjacent to residential properties. The contractor shall coordinate and notify the existing property owners at the project site and the neighboring properties of any major construction activity that may impact ingress/egress to their properties at least 48 hours in-advance. The contractor must take the necessary temporary measures to reduce dust, noise and odor that is generated by the construction activities. In order to reduce nuisance odor to the property owners at the site or neighboring properties, the Contractor shall cover all open sewer manhole or sewer structures as soon as it is safe to do so (no later than at the end of each construction day). No separate payment to the Contractor will be made to the Contractor implement temporary dust/noise/odor control measures. For the Pecan Grove site, contact SAWS Superintendent Roland Gutierrez at 210-336-1898 one week in advance of any construction work for this site.

SC12. TEMPORARY SEWER BYPASS PUMPING PLAN

The Contractor is required to setup a temporary sewer bypass pumping system to divert the sewer flow around the pipelines and the structures that are to be replaced or rehabilitated in this project as detailed in SAWS standard specifications Items 864-S1 Bypass Pumping (Small Diameter Sanitary Sewers) and 864-S2 Bypass Pumping (Large Diameter Sanitary Sewers). The temporary sewer bypass pumping for this project shall be able to handle sewer flow during peak wet weather event as indicated in the drawings. A conceptual sewer bypass system route has also been shown

in the drawings for each location. These are conceptual routes only. The contractor shall submit a detailed temporary bypass pumping plan (signed and sealed by Texas P.E.) as required by the above-mentioned SAWS standard specifications for review and approval by SAWS and the Engineer.

In performing the work to place the temporary bypass pipelines across and below Salado Creek for the Pecan Grove site, the Contractor shall comply with City of San Antonio's Floodplain Development Permit's general requirements, Texas Park and Wildlife Department's general requirements for protection of aquatic species, and U.S. Army Corps of Engineers Nationwide Permit No.58 general requirements. Contractor's effort to comply with these requirements is subsidiary to the work to install/provide a complete temporary bypass system as required to perform the work in this project and will be paid under item 864-S2 (Large Diameter Bypass Pumping System).

SC13. EXISTING SEWER CCTV FOR PECAN GROVE

CCTV videos of the existing sewer mains for the Pecan Grove site are available for download. To obtain access to the videos, Contractors must complete and submit the attached disclaimer form. The disclaimer form is also available for download at the following link: https://apps.saws.org/Business_Center/Contractsol/

Please submit the form to Theadora Gonzalez, Contract Administrator, via email to Theadora.Gonzalez@saws.org. CCTV videos will be provided once the disclaimer form is submitted.

SC14. PAYMENT

- A. As specified in the Contract Documents unit price cost for the items bid shall include all the necessary and incidental work as subsidiary to the bid item, unless specifically called out in the plans or approved by SAWS. Pay items indicating no separate or additional pay for incidental, related, associated or other work will take precedence if in conflict with other pay provisions. If no pay item is included for any stipulated item, it will be considered as subsidiary to other pay items.
- B. The Tree Preservation Protection Permit(s) are obtained by the Engineer during final design. The contractor shall follow permit requirements and there will be no measurement or payment associated with the Tree Permit or associated tree protection and/or pruning required by the approved Tree Permit and shown in the plans, unless otherwise noted. All trees within the work zone shall be protected using appropriate City of San Antonio approved tree protection and shall be considered subsidiary to Item 101 – Preparing Right-of-Way.
- C. There will be no separate payment for temporary fencing, with all related costs included in the item to which it pertains. Clearing and grubbing or tree pruning will be paid under Item 101 – Preparing Right-of-Way, as noted in the contract documents.

SC15. PHASING

The CONTRACTOR may complete work on the various sites in whatever order they choose and may work on two sites at once so long as full restoration of each site is completed before work begins on subsequent sites. **Please note that for the IH-35 @ Whirlwind Site and General Hudnell Site, there are manholes that are being replaced under SAWS Job #19-4508. The manholes may not be installed by the time this project begins construction and the CONTRACTOR shall phase the work accordingly and coordinate with the contractor for SAWS Job #19-4508 to ensure the success of both projects.**

SC16. RIGHT-OF-ENTRIES TO CONSTRUCT

Right-of-Entries to Construct have been obtained at various locations while SAWS is still negotiation Right-of-Entries to Construct at other locations. Below is a list of the obtained documents, associated project site, duration, start dates and expiration dates. The executed Right-of-Entries to Construct have also been included at the end of these contract documents. The CONTRACTOR shall adhere to these dates and complete the work in these areas before the easement or right-of-entry expires. If the Contractor fails to complete the work in these areas by the stated deadlines, then the Contractor shall be responsible for any and all costs incurred as a result of having to acquire a new right-of-entry and any other items necessary to complete the work at the subject location.

SAWS is in the process of obtaining Right-of-Entries to Construct (RoEC) for the City of San Antonio properties for the following sites: Olmos Basin Golf Course and Mayfield Blvd. CONTRACTOR shall perform work at sites for which agreements are already executed in accordance with the phasing provided in these contract documents with the understanding that the CONTRACTOR shall not be penalized for performing the work in an order that differs from the phasing plan if caused directly by lack of executed agreements for one or more of the sites in question. As these contract documents are notifying the CONTRACTOR of this scheduling consideration, the CONTRACTOR shall be required to complete all work by the deadlines provided for each site in compliance with Right of Entry documents and other relevant aspects of these contract documents with all work being completed prior to the contract end date based on the original duration provided in these contract documents.

The following is a list of all Right-of-Entries to Construct either obtained or being obtained by SAWS along with the maximum duration from contractor's first entry to completion of all work, including restoration:

General Hudnell

Property ID	Address	Duration (Calendar Days)
393457	103 W. Bedford Ave	90
395405	110 W. Greenway Ave	90

IH-35 & Whirlwind Dr.

Property ID	Address	Duration (Calendar Days)
541658	9911 N. Interstate 35	120
541664	9735 N. Interstate 35	120
1117269	9603 N. Interstate 35	120
541665	9523 N. Interstate 35	120
1119531	9539 N. Interstate 35	120

W. Mayfield

Property ID	Address	Duration (Calendar Days)
416964	1900 W. Pyron (COSA)	90

Olmos Basin Golf Course

Property ID	Address	Duration (Calendar Days)
1307221	7022 McCullough Ave (COSA)	180

Pecan Grove

Property ID	Address	Duration (Calendar Days)
534788	4714 Pecan Grove	365
466380	900 Hiawatha (COSA)	200

Right of Entries to Construct for the properties at 106 Pletz Dr. (ID 392177) was not able to be obtained. Any required sewer main work on this property, if needed, shall occur within the existing 8' sanitary sewer easement and the property shall be accessed from the UPRR right-of-way.

All fences, landscaping, etc. that are disturbed shall be replaced to existing or better condition once work is completed (NSPI) for all properties anywhere within the project area.

SC17. OLMOS BASIN GOLF COURSE

Compkeys 968434, 967698, 969222, 967369, 966767, 967699, 968575, 968013 and 972800 lie along and/or within the edge of the City of San Antonio's Olmos Basin Golf Course property next to the Union Pacific Railroad tracks. The CONTRACTOR may use the access from Jones-Maltsberger Rd. at US-281 to access the sewer segments to be rehabilitated, but will be required to coordinate access with TXDOT and UPRR. Access to the area through the Olmos Basin Golf Course is provided as a Right-of-Entry to Construct (ROE-025) from both the McCullough Avenue and Basse Road. The CONTRACTOR shall place protective mats or other devices to protect the golf course and cart path as no separate pay item.

The CONTRACTOR shall notify City of San Antonio Parks and Recreation Department at least two weeks prior to commencing work related to this property. The CONTRACTOR shall also contact Jake Snyman, Director of Agronomy for the Alamo City Golf Trail at 210-908-5927 or jake@satxgolf.com to coordinate access to the required locations and to inform them of the construction begin date and end date for the area. The CONTRACTOR shall coordinate work hours with the golf course to avoid conflicts with golfers, possibly working during hours the golf course is closed.

The CONTRACTOR shall coordinate with the City of San Antonio Arborist and protect any trees as noted in the plans and or as required by the COSA Tree Permit. The Contractor shall place temporary fencing around work areas and bypass pumping equipment to designate the work areas for possible golfers as no separate pay item. The CONTRACTOR shall also repair any portion of the golf course or cart path damaged by the CONTRACTOR by using the required Latitude36 Bermuda Grass, typically supplied by Thomas Turfgrass Farms, used by the golf course as no separate pay item.

SC18. W. MAYFIELD.

A portion of the sewer rehabilitation for the W. Mayfield site goes through Al Forge Park. When the Contractor accesses the sanitary sewer manholes within Al Forge Park for work on the site, the contractor shall follow all requirements of the right-of-entry to construct. This includes:

- Complying with all applicable environmental laws.
- Notifying City of San Antonio Parks and Recreation Department at least two weeks prior to commencing work related to this property.
- Coordinating with COSA Parks to document the condition of Al Forge Park before beginning work.
- Restoring any disturbed areas on the property to its prior condition including but not limited to grading and establishing Bermuda grass and vegetation. Contractor shall coordinate with the City of San Antonio Parks and Recreation on specific species and types to be used.
- Protecting all trees.
- Protecting all light poles
- Installing temporary fencing between the work zone, trees and the light poles to ensure the protection of the trees and light poles and to clearly delineate the work area from the usable area of the park and avoid confusion of park visitors. The temporary fencing will not be paid for separately but shall be considered subsidiary to Preparation of Right-of-Way
- Coordinating access to the work site with Parks and Recreation staff. Parks and Recreation staff will provide a key to the driveway entry gate off West Pyron Ave. Contractor shall ensure gate is locked at the conclusion of each work day and will return the key to Parks and Recreation staff at the conclusion of the project.

Another portion of the sewer rehabilitation for the W. Mayfield site goes through 803 W. Mayfield Blvd. SAWS has acquired an easement for this sewer main location and the required point repair will require the removal and replacement of the existing wrought iron fence and possible removal of existing trees along the fence. The CONTRACTOR shall attempt to avoid removing the trees.

SC19. PECAN GROVE

The Contractor shall stake the edges of SAWS existing sewer and water easements (both sides) inside the City's Southside Lions Park to limit any the area where temporary construction activities can be performed within the park.

After temporary removal of the permanent fence at the project site, the Contractor is responsible for installing a temporary six-foot high chain-link fence to secure the property and the work area. The temporary fence shall also be equipped with privacy slats. No separate payment will be made for furnishing and installing/removing the temporary fence.

The Contractor shall not stage materials or equipment in the City of San Antonio ROW along Pecan Grove Drive. The Contractor shall be responsible for obtaining appropriate temporary staging areas for the project. The Contractor shall provide SAWS with a copy of any executed agreements with private property owners.

Contractor shall protect any construction equipment and materials stored within the existing Salado Creek's floodplain during large storm events. Contractor shall comply with the City of San Antonio floodplain development permit's requirements of protecting construction equipment and materials placed with the floodplain boundaries. Due to limited space at 4714 Pecan Grove Drive, the Contractor shall only store materials that will be immediately use by the Contractor in the next 48 hours after the materials have been delivered.

Access:

Temporary access route to the Pecan Grove site is shown in the design plans and contract documents. SAWS has obtained a temporary right-of-entry from each property owner (City of San Antonio – Park Department and Joseph D. Patrick). The right-of-entry documents has been attached in the contract document for Contractor's reference. The Contractor shall carefully review these documents and shall closely coordinate with each respective property owners and their tenants. The Contractor shall bear full responsibility for all actions, damages or impacts of their actions, whether intentionally or not, in or around the project site (including neighboring properties that bounded the project site), including correcting said actions at their sole expense. Any damage and temporary disturbance shall be restored to the existing (pre-construction) or better condition.

Construction Access and Staging Area:

For construction access and staging areas within the Pecan Grove site, the Contractor shall stake the edges of SAWS existing sewer and water easements (both sides) inside the City's Southside Lions Park to limit any the area where temporary construction activities can be performed within the park.

After temporary removal of the permanent fence at the project site, the Contractor is responsible for installing a temporary six-foot high chain-link fence to secure the property and the work area. The temporary fence shall also be equipped with privacy slats. No separate payment will be made for furnishing and installing/removing the temporary fence.

The Contractor shall not stage materials or equipment in the City of San Antonio ROW along Pecan Grove Drive. The Contractor shall be responsible for obtaining appropriate temporary staging areas for the project. The Contractor shall provide SAWS with a copy of any executed agreements with private property owners.

Contractor shall protect any construction equipment and materials stored within the existing Salado Creek's floodplain during large storm events. Contractor shall comply with the City of San Antonio floodplain development permit's requirements of protecting construction equipment and materials placed with the floodplain boundaries. Due to limited space at 4714 Pecan Grove Drive, the Contractor shall only store materials that will be immediately use by the Contractor in the next 48 hours after the materials have been delivered.

SC20. SANITARY SEWER MANHOLES

APM Permacast MS-10,000 with ConShield epoxy coating will not be allowed for new or manhole rehabilitations and the ConShield additive will not be allowed for new manholes.

SC21. CONSENT DECREE NOTICE PROVISION

The San Antonio Water System ("SAWS"), the United States of America and the State of Texas have entered into a Consent Decree in Civil Action No. 5:13-cv-00666- DAE, United States of America and State of Texas v. San Antonio Water System, in the United States District Court for the Western District of Texas, San Antonio Division (the "Consent Decree"). A copy of the Consent Decree is available at

<http://www.saws.org/Infrastructure/EPA/download.cfm>

Work performed pursuant to this contract is work that SAWS is required to perform pursuant to the terms of the Consent Decree. In the event of any conflict between the terms and provisions of this Consent Decree Notice Provision and any other terms and provisions of this Contract or the Contract Documents, the terms and provisions of this Consent Decree Notice Provision shall prevail.

A. Retention of documents.

Contractor shall retain and preserve all non-identical copies of all documents, reports, research, analytical or other data, records or other information of any kind or character (including documents, records, or other information in electronic form including, but not limited to e-mails) in its or its sub-contractors' or agents' possession or control, or that come into its or its sub-contractors' or agents' possession or control, and that relate in any manner to this contract, or the performance of any work described in this contract (the "Information"). This retention requirement shall apply regardless of any contrary corporate or institutional policy or procedure or legal requirement. Contractor, Contractor's sub-contractors and agents shall retain and shall not destroy any of the Information until such time as Contractor has received written approval from the General Counsel of SAWS that the Information or any part of the Information may be destroyed. Contractor shall, within 30 days after receipt of a written request by SAWS, deliver the Information to SAWS. Contractor shall instruct and require its agents and sub-contractors performing any part of the work described in this contract to comply with the requirements of this paragraph.

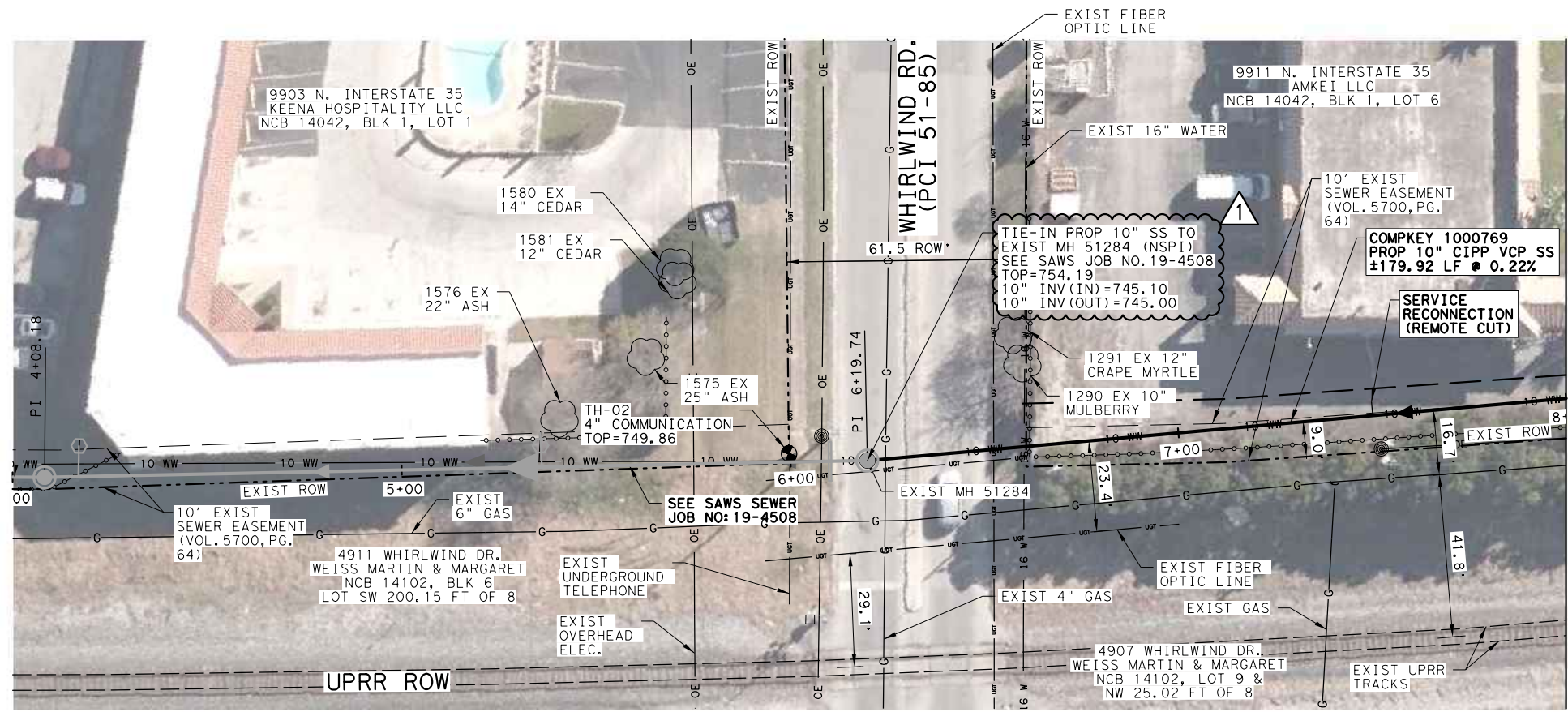
B. Notification of events that may cause delay.

If any event occurs that may delay performance by Contractor, or Contractor's agents or sub-contractors of any work or obligation of any kind under this contract, Contractor shall provide notice in accordance with the Notice Provisions of this contract to SAWS within two (2) business days of the date Contractor or Contractor's agents or sub-contractors first knew that the event might cause a delay. Contractor shall provide a written explanation and description of the reasons for the delay, the anticipated duration of the delay, all actions taken or to be taken to prevent or minimize the delay, and a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay. **TIME IS OF THE ESSENCE** in the performance of the requirements of this paragraph and of any work to be performed by the Contractor in this contract.

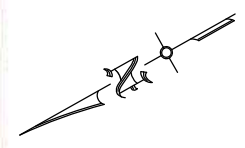
C. Liability for stipulated penalties.

The Consent Decree provides that the United States of America, the United States Environmental Protection Agency and the State of Texas may assess stipulated penalties against SAWS upon the occurrence of certain events. To the extent that Contractor or Contractor's agents or sub-contractors cause or contribute to, in whole or in part, the assessment of any stipulated penalty against SAWS, Contractor agrees that it shall pay to SAWS the full amount of any stipulated penalty assessed against and paid by SAWS that is caused or contributed to in whole or in part by any action, failure to act, or failure to act within the time required by any provision of this contract. Contractor shall also pay to SAWS all costs, attorney fees, expert witness fees and all other fees and expenses incurred by SAWS in connection with the assessment or payment of any such stipulated penalties, or in contesting the assessment or payment of any such stipulated penalties. In addition to any and all other remedies to which SAWS may be entitled at law or in equity, Contractor expressly authorizes SAWS to withhold all amounts assessed and paid as stipulated penalties, and all associated costs, fees, or expenses from any amount unpaid to Contractor under the terms of this contract, or from any retainage provided in the contract.

10/5/2023 Plot+red by: j:inocencio St:\Projects\SAWS\190044 2019 ssORP Engineering Design Services\000\20-Drawings\Plans\Civil\01mos CIPP Plan Set\190044*P&P*I-35*03.dgn

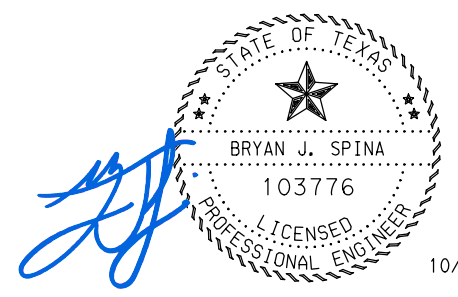


ITEM #	DESCRIPTION	UNIT	QTY
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (<15" MAIN)	LF	180
SP901.1	10" CIPP SANITARY SEWER PIPE, ALL DEPTHS	LF	180
SP1109	SERVICE RECONNECTION, ALL DEPTHS (W/ REMOTE CONTROL CUT DEVICE)	EA	1



MATCHLINE STA 8+00
SEE SHEET S16

NOTE:
1. REMOVAL AND REPLACEMENT OF EXIST FENCING SHALL BE USED AS NEEDED AND APPROVED BY SAWS INSPECTOR AND ENGINEER AND SHALL MATCH THE EXIST FENCE LOCATION AND TYPE.



10/5/2023

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- ROW LINE
- UGT— BURIED TEL
- OE — OH UTILITIES
- FENCE
- ⊙ FIRE HYDRANT
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ TELE PEDESTAL
- ⊙ LIGHT POLE
- ⊙ POWER POLE
- ⊙ GUY WIRE
- ⊙ SIGN
- ⊙ EXIST MANHOLE
- ⊙ REHAB MANHOLE
- ⊙ PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- /// EXIST SS LATERAL
- - - ABANDON
- - - SS LATERAL
- - - CLEAN OUT
- ☆ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24" STEEL CASING
- ▨ CONC ENCASEMENT
- ⊙ ABANDON & GROUT
- ⊙ SUE LOCATIONS

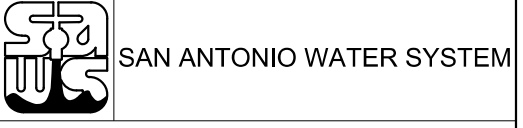
NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

LNV
an Ardurra Company

8918 TESORO DR, SUITE 401
SAN ANTONIO, TX 78217

PH. (210) 822-2232
WWW.LNVINC.COM

TPELS REGISTERED FIRM NO.
ENGINEERING FIRM F-366
SURVEYING FIRM 10126502



SAN ANTONIO WATER SYSTEM

MULTIPLE SEWERSHED PACKAGE 15: CIPP
SEWER PLANS SET 1 OF 2

**I-35 & WHIRLWIND DR.
SEWER PLAN VIEW
STA 4+00 TO STA 8+00
SHEET 1 OF 4**

HORIZ. SCALE: 1"=40'
0 20 40
SCALE IN FEET

VERT. SCALE: 1"=10'
0 5 10
SCALE IN FEET

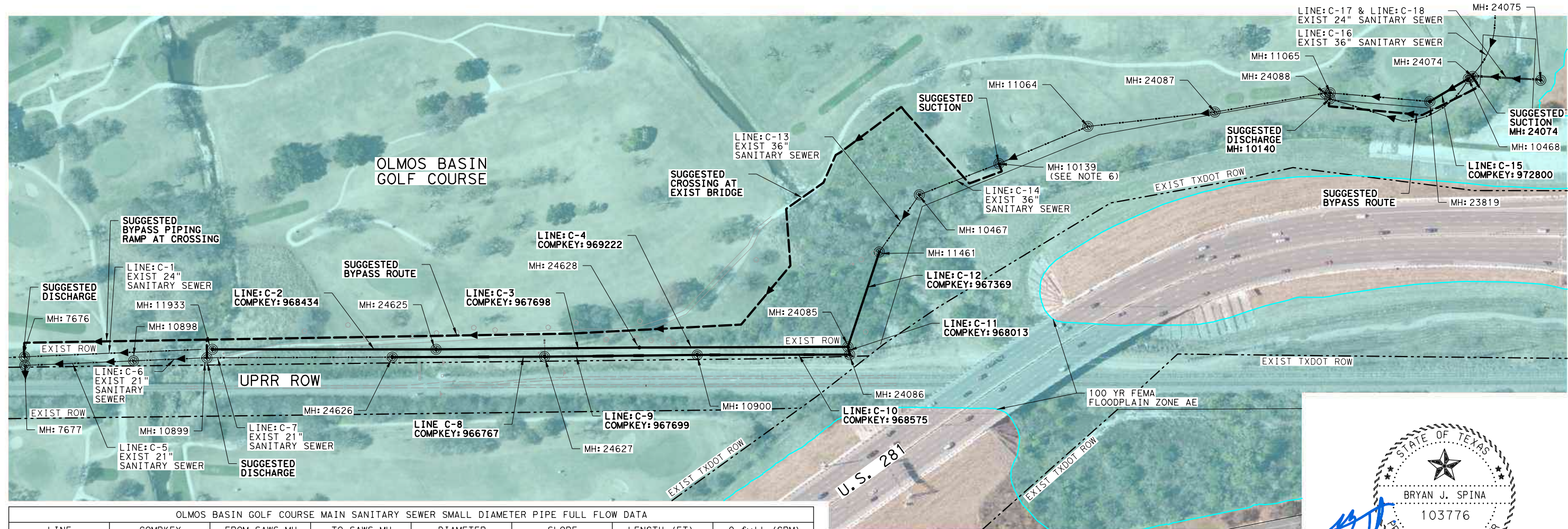
MAP No(s):
SAWS JOB NO.: 23-4507

DRWN BY: DSGN BY: CHKD BY:

DATE: 10/5/2023

S15

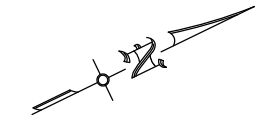
10/3/2023
 Plotted by: jinoencio
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OLMOS BASIN GOLF COURSE MAIN SANITARY SEWER SMALL DIAMETER PIPE FULL FLOW DATA							
LINE	COMPKEY	FROM SAWS MH	TO SAWS MH	DIAMETER	SLOPE	LENGTH (FT)	Q _{full} (GPM)
C-5		7677	10898	21"	0.10%	214	2,248
C-6		10898	10899	21"	0.10%	145	2,248
C-7		10899	24626	21"	0.10%	365	2,248
C-8	966767	24626	24627	21"	0.15%	300	2,756
C-9	967699	24627	10900	21"	1.71%	300	9,299
C-10	968575	10900	24086	21"	1.71%	300	12,086
C-11	968013	24086	24085	21"	5.74%	16	17,036

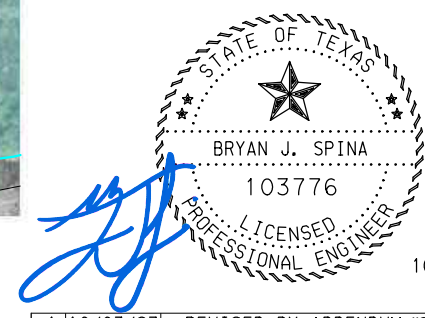
OLMOS BASIN GOLF COURSE MAIN SANITARY SEWER LARGE DIAMETER PIPE FULL FLOW DATA										
LINE	COMPKEY	FROM SAWS MH	TO SAWS MH	DIAMETER	SLOPE	LENGTH (FT)	ADF (MGD)	PDF (MGD)	PWF (MGD)	Q _{full} (GPM)
C-1	969082	7676	11933	24"	0.28%	370	3	3.82	10.02	5,372.14
C-2	968434	11933	24625	24"	0.43%	440	3.00	3.82	7.84	6,655.70
C-3	967698	24625	24628	24"	0.18%	401	3.00	3.82	7.81	4,308.48
C-4	969222	24628	24085	24"	0.31%	411	3.00	3.82	7.67	5,650.39
C-12	967369	24085	11461	36"	0.06%	196	3.51	4.56	16.55	7,333.39
C-13	969200	11461	10467	36"	0.17%	138	3.51	4.56	16.58	12,342.00
C-14	978004	10467	10139	36"	0.02%	169	3.51	4.56	16.58	4,232.18
C-15	972800	23819	24074	36"	0.08%	89				11,004.58
C-16		24074	10141	36"	0.03%	566				6,740.98
C-17		24074	24075	24"	0.09%	137				3,958.42
C-18		24074	24075	24"	0.09%	137				3,958.42

SEE SHEET S22 FOR PROPERTY INFORMATION



- SANITARY SEWER BYPASS**
- THE CONTRACTOR SHALL FIELD VERIFY MANHOLE INVERTS AND SANITARY SEWER LINE SLOPES PRIOR TO COMMENCING BYPASS WORK.
 - THE CONTRACTOR SHALL MAINTAIN SEWAGE FLOW IN THE CONSTRUCTION AREA IN ORDER TO PREVENT BACKUP AND/OR OVERFLOW INTO ADJACENT DITCHES, STORM SEWERS AND WATERWAYS.
 - THE CONTRACTOR SHALL DEMONSTRATE THAT THE PUMPING SYSTEM IS IN GOOD WORKING ORDER AND IS SUFFICIENTLY SIZED TO SUCCESSFULLY HANDLE FLOWS BY PERFORMING A TEST RUN FOR A PERIOD OF 24 HOURS PRIOR TO BEGINNING WORK.
 - FLOW DATA DOES NOT INCLUDE INFLOW/INFILTRATION.
 - PLEASE COORDINATE WITH JAKE SNYMAN AT 210-908-5927 FOR ACCESS ROUTE TO OLMOS BASIN GOLF COURSE.
 - MANHOLE HAS A FLOW METER. SEE SEWER GENERAL NOTES #6 ON SHEET S3 FOR MORE INFO.

- LEGEND**
- ⊙ EXIST SS MANHOLES
 - — — — — EXIST SANITARY SEWER
 - — — — — PROP SANITARY SEWER
 - PROP MANHOLES
 - - - - - SUGGESTED BYPASS ROUTE
 - == == == == EXIST RR TRACKS



10/3/2023

NO	DATE	DESCRIPTION	DWG	CHK
1	10/03/23	REVISED BY ADDENDUM #2	J1	BS

LNV
an Ardurra Company

8918 TESORO DR, SUITE 401
SAN ANTONIO, TX 78217

PH. (210) 822-2232
WWW.LNVINC.COM

TBPELS REGISTERED FIRM NO.
ENGINEERING FIRM F-366
SURVEYING FIRM 10126502



MULTIPLE SEWERSHED PACKAGE 15: CIPP
SEWER PLANS SET 1 OF 2

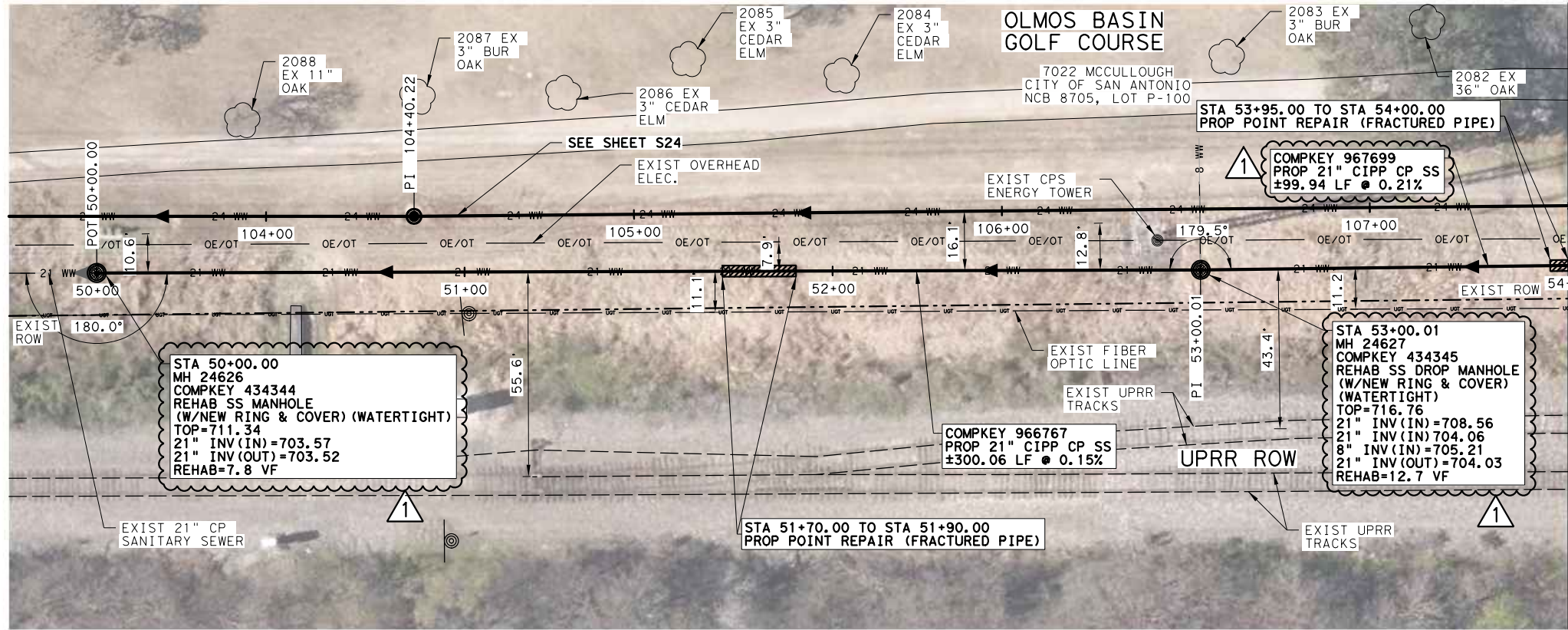
**OLMOS BASIN GOLF COURSE
SUGGESTED SANITARY SEWER
BY-PASS LAYOUT**

HORIZ. SCALE: 1"=200'
0 100 200
SCALE IN FEET

MAP No(s):	DATE: 10/3/2023
SAWS JOB NO.: 23-4507	
DRWN BY:	DSGN BY:
	CHKD BY:

S20

10/5/2023
 Plot+red by: jinoencio
 St:\Projects\SAWS\190044 2019 SSORP Engineering Design Services\000\20-Drawings\Plans\Civil\Olmos CIPP Plan Set\190044-P&P\OLMOS*BASIN*05.dgn

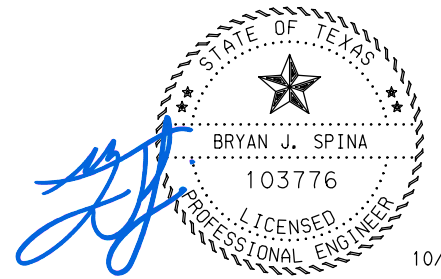


MATCHLINE STA 54+00
SEE SHEET S28

ITEM #	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL (4")	CY	4
520.1	HYDROMULCHING	SY	24
851	ADJUST EXISTING MANHOLE	EA	2
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (18"-24" MAIN)	LF	400
SP901.1	21" CIPP SANITARY SEWER PIPE, ALL DEPTHS	LF	400
SS910	MANHOLE REHABILITATION	VF	20.5
SP1103	POINT REPAIRS FOR 21" DIAMETER (ALL DEPTHS)	EA	1

NOTE: CONTRACTOR SHALL USE POINT REPAIR LINE ITEM IF NEEDED.

NOTE:
 1. SEGMENTS ARE WITHIN THE 100 YEAR FLOODPLAIN.



10/5/2023

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- - - ROW LINE
- UGT— BURIED TEL
- OE — OH UTILITIES
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- ⊕ FIRE HYDRANT
- ⊙ WATER METER
- ⊗ WATER VALVE
- ⊠ TELE PEDESTAL
- ⊙ LIGHT POLE
- POWER POLE
- ⊕ GUY WIRE
- ⊙ SIGN
- ⊙ EXIST MANHOLE
- ⊙ REHAB MANHOLE
- ⊙ PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- // — EXIST SS LATERAL
- ABANDON
- SS LATERAL
- CLEAN OUT
- ☆ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24" STEEL CASING
- ▨ CONC ENCASEMENT
- ⊗ ABANDON & GROUT
- ⊙ SUE LOCATIONS

NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

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 an Ardurra Company
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 PH. (210) 822-2232
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SAN ANTONIO WATER SYSTEM

MULTIPLE SEWERSHED PACKAGE 15: CIPP SEWER PLANS SET 1 OF 2

OLMOS BASIN SEWER PLAN VIEW
 STA 50+00 TO STA 54+00
 SHEET 5 OF 9

HORIZ. SCALE: 1"=40'
 0 20 40
 SCALE IN FEET

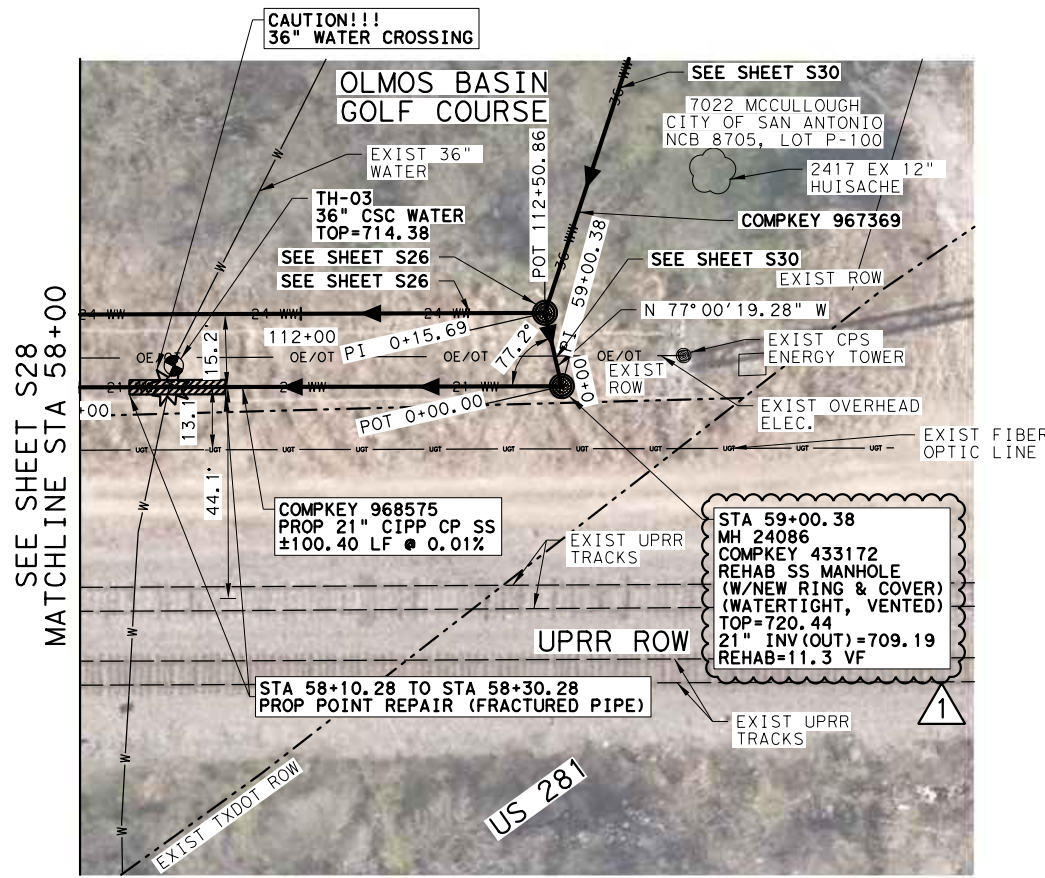
VERT. SCALE: 1"=10'
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 SCALE IN FEET

MAP No(s):
 SAWS JOB NO.: 23-4507
 DRWN BY: DSGN BY: CHKD BY:

DATE: 10/5/2023

S27

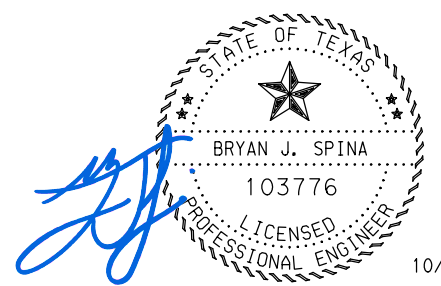
10/5/2023
 Plotted by: j.inocencio
 St:\Projects\SAWS\190044_2019_SSORP_Engineering_Design_Services\000\20-Drawings\Plans\Civil\Olmos_CIPP_Plan_Set\190044*P&P*OLMOS*BASIN*07.dgn



NOTE:

1. SEGMENTS ARE WITHIN THE 100 YEAR FLOODPLAIN.
2. A VARIANCE FOR THE 21" SANITARY SEWER MAIN COMPKEY 968575 WITH A SLOPE BELOW THE MINIMUM SLOPE FOR A 21" MAIN AND DOES NOT MEET THE REQUIRED SEPARATION DISTANCE BETWEEN WATER AND SEWER MAINS PER TCEQ WAS SUBMITTED ON 08/03/2023 AND APPROVED 08/28/2023.

ITEM #	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL (4")	CY	2
520.1	HYDROMULCHING	SY	12
851	ADJUST EXISTING MANHOLE	EA	1
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (18"-24" MAIN)	LF	101
SP901.1	21" CIPP SANITARY SEWER PIPE, ALL DEPTHS	LF	101
SS910	MANHOLE REHABILITATION	VF	11.3
SP1103	POINT REPAIRS FOR 21" DIAMETER (ALL DEPTHS)	EA	1



10/5/2023

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- ROW LINE
- UGT— BURIED TEL
- OE — OH UTILITIES
- FENCE
- ⊕ FIRE HYDRANT
- ⊙ WATER METER
- ⊗ WATER VALVE
- ⊠ TELE PEDESTAL
- ⊙ LIGHT POLE
- POWER POLE
- ⊕ GUY WIRE
- ⊙ SIGN
- ⊙ EXIST MANHOLE
- ⊙ REHAB MANHOLE
- ⊙ PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- // — EXIST SS LATERAL
- ABANDON
- SS LATERAL
- CLEAN OUT
- ★ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24" STEEL CASING
- ▨ CONC ENCASEMENT
- X — ABANDON & GROUT
- SUE LOCATIONS

NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

REVISIONS

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SAN ANTONIO WATER SYSTEM

MULTIPLE SEWERSHED PACKAGE 15: CIPP SEWER PLANS SET 1 OF 2

OLMOS BASIN SEWER PLAN VIEW
STA 58+00 TO END
SHEET 7 OF 9

HORIZ. SCALE: 1"=40'
0 20 40
SCALE IN FEET

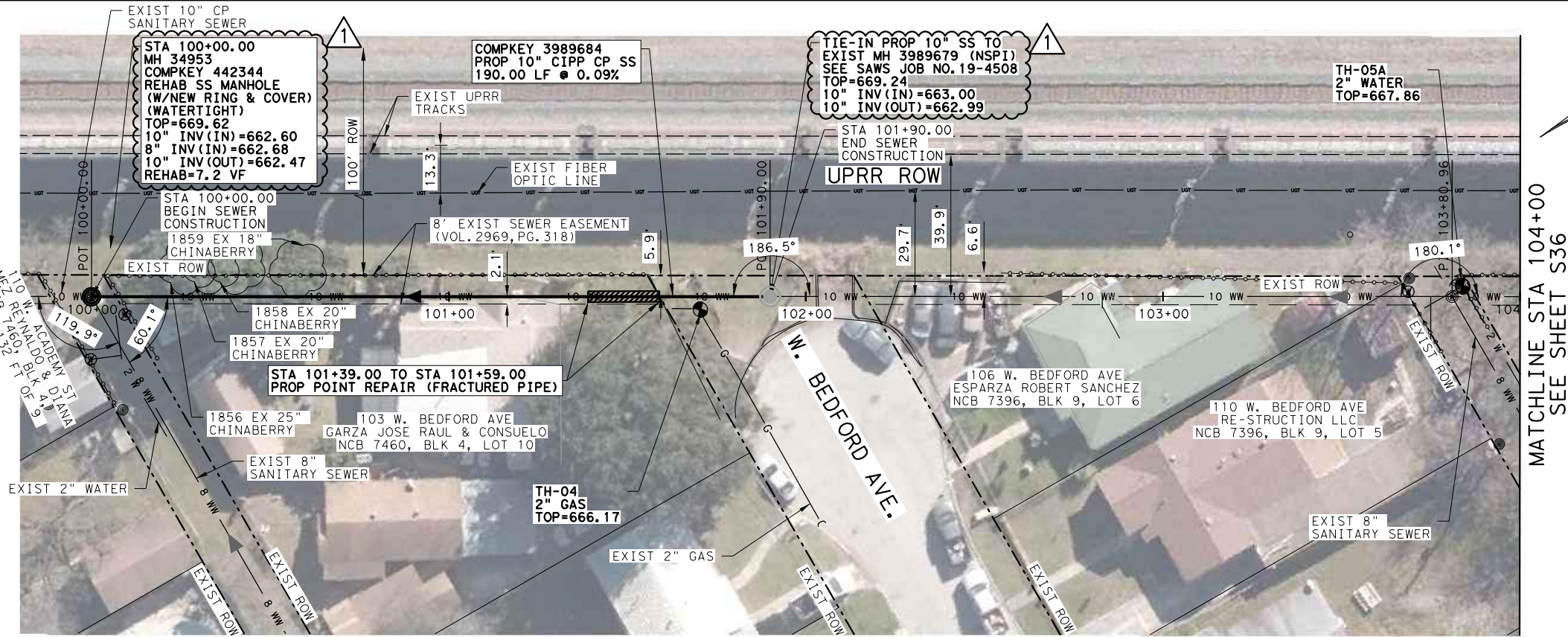
VERT. SCALE: 1"=10'
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SCALE IN FEET

MAP No(s):
SAWS JOB NO.: 23-4507

DRWN BY: DSGN BY: CHKD BY: **S29**

DATE: 10/5/2023

10/5/2023
 Plotted by: jinoencio
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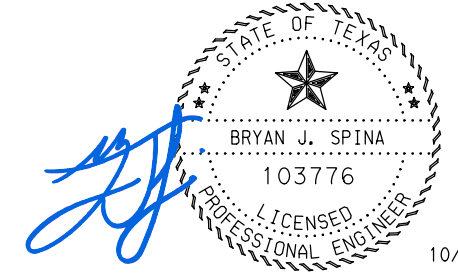


ITEM #	DESCRIPTION	UNIT	QTY
SP507	REMOVE AND REPLACE FENCE*	LF	20
515.1	TOPSOIL (4")	CY	2
520.1	HYDROMULCHING	SY	12
851	ADJUST EXISTING MANHOLE	EA	1
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (<15" MAIN)	LF	190
SP901.1	10" CIPP SANITARY SEWER PIPE, ALL DEPTHS	LF	190
SS910	MANHOLE REHABILITATION	VF	7.2
SP1103	POINT REPAIRS FOR 10" DIAMETER (ALL DEPTHS)*	EA	1

* TO BE USED AS NEEDED AND AS DIRECTED BY SAWS INSPECTOR AND/OR ENGINEER

MATCHLINE STA 104+00
 SEE SHEET S36

- NOTE:
1. IN ACCORDANCE WITH SAWS STD SPEC 1103, SURFACE RESTORATION FOR ACCESSING AND CONDUCTING POINT REPAIRS SHALL BE SUBSIDIARY TO THE POINT REPAIR WORK.
 2. TEMPORARY FENCING SHALL BE INSTALLED WHERE EXIST FENCING IS REMOVED UNTIL WORK IS COMPLETE AND NEW FENCING IS INSTALLED (NSPI).
 3. REMOVAL AND REPLACEMENT OF EXIST FENCING SHALL BE USED AS NEEDED AND APPROVED BY SAWS INSPECTOR AND ENGINEER AND SHALL MATCH THE EXIST FENCE LOCATION AND TYPE.
 4. A VARIANCE FOR THE 10" SANITARY SEWER MAIN COMPKEY 3989684 WITH SLOPE BELOW THE MINIMUM SLOPE FOR A 10" MAIN PER TCEQ WAS SUBMITTED ON 08/03/2023 AND APPROVED 08/28/2023.



10/5/2023

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- ROW LINE
- UGT— BURIED TEL
- OE — OH UTILITIES
- FENCE
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- TELE PEDESTAL
- LIGHT POLE
- POWER POLE
- GUY WIRE
- SIGN
- EXIST MANHOLE
- REHAB MANHOLE
- PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- // — EXIST SS LATERAL
- ABANDON SS LATERAL
- CLEAN OUT
- ☆ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24" STEEL CASING
- ▨ CONC ENCASEMENT
- ABANDON & GROUT
- SUE LOCATIONS

NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

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SAWS
 SAN ANTONIO WATER SYSTEM

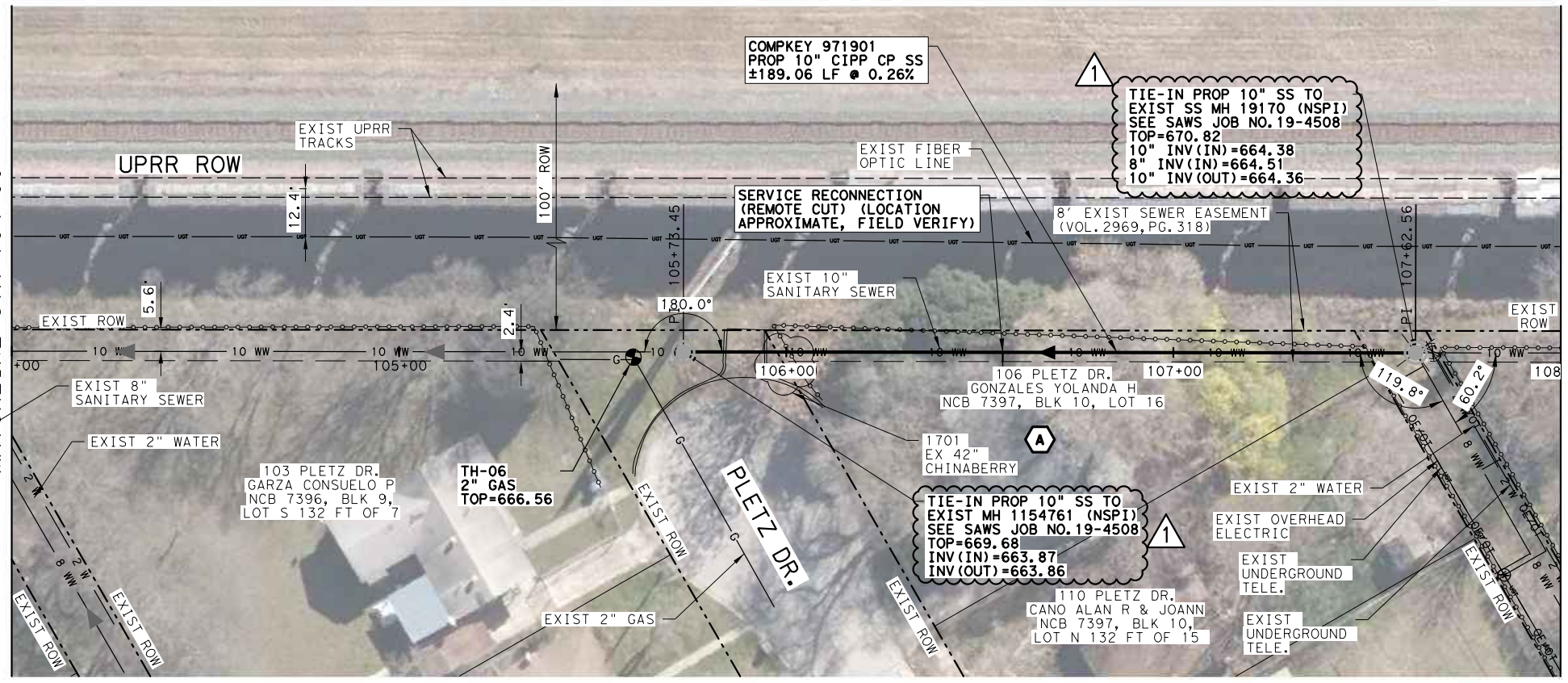
MULTIPLE SEWERSHED PACKAGE 15: CIPP SEWER PLANS SET 1 OF 2

GENERAL HUDNELL SEWER PLAN VIEW
 STA 100+00 TO STA 104+00
 SHEET 1 OF 4

HORIZ. SCALE: 1"=40'	VERT. SCALE: 1"=10'
0 20 40	0 5 10
SCALE IN FEET	SCALE IN FEET
MAP No(s):	DATE: 10/5/2023
SAWS JOB NO.: 23-4507	
DRWN BY:	CHGD BY:
	S35

10/5/2023
 Plotted by: jinoencio
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SEE SHEET S35
 MATCHLINE STA 104+00



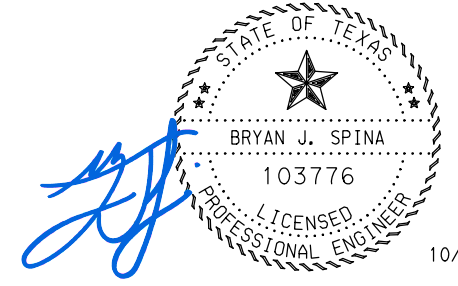
MATCHLINE STA 108+00
 SEE SHEET S37

ITEM #	DESCRIPTION	UNIT	QTY
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (<15\"/>		

A RIGHT OF ENTRIES TO CONSTRUCT FOR THE PROPERTY AT 106 PLETZ (ID 392177) WAS NOT ABLE TO BE OBTAINED. ANY REQUIRED SEWER MAIN WORK ON THOSE PROPERTIES, IF NEEDED, SHALL OCCUR WITHIN THE EXISTING 8\"/>

NOTE:

- CONTRACTOR SHALL USE POINT REPAIR ITEM AS NEEDED. APPROXIMATELY 100 LINEAR FEET (BETWEEN STA 106+00 & 107+00) HAS BEEN UNTELEVIEWED AND MAY REQUIRE POTENTIAL POINT REPAIRS.
- IN ACCORDANCE WITH SAWS STD SPEC 1103, SURFACE RESTORATION FOR ACCESSING AND CONDUCTING POINT REPAIRS SHALL BE SUBSIDIARY TO THE POINT REPAIR WORK.
- TEMPORARY FENCING SHALL BE INSTALLED WHERE EXIST FENCING IS REMOVED UNTIL WORK IS COMPLETE AND NEW FENCING IS INSTALLED (NSPI).
- REMOVAL AND REPLACEMENT OF EXIST FENCING SHALL BE USED AS NEEDED AND APPROVED BY SAWS INSPECTOR AND ENGINEER AND SHALL MATCH THE EXIST FENCE LOCATION AND TYPE.
- ITEM 1103 POINT REPAIR IS PROVIDED TO BE USED ONLY IF NECESSARY AFTER PRE-TELEVISIONING AND APPROVED BY THE ENGINEER.



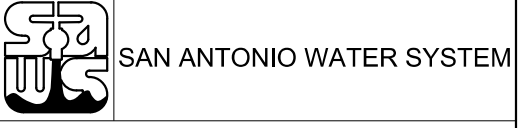
10/5/2023

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- - - ROW LINE
- UGT— BURIED TEL
- OE — OH UTILITIES
- FENCE
- ⊕ FIRE HYDRANT
- ⊙ WATER METER
- ⊗ WATER VALVE
- ⊠ TELE PEDESTAL
- ⊙ LIGHT POLE
- ⊙ POWER POLE
- ⊙ GUY WIRE
- ⊙ SIGN
- ⊙ EXIST MANHOLE
- ⊙ REHAB MANHOLE
- ⊙ PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- // — EXIST SS LATERAL
- ABANDON
- SS LATERAL
- CLEAN OUT
- ⊙ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24\"/>

NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

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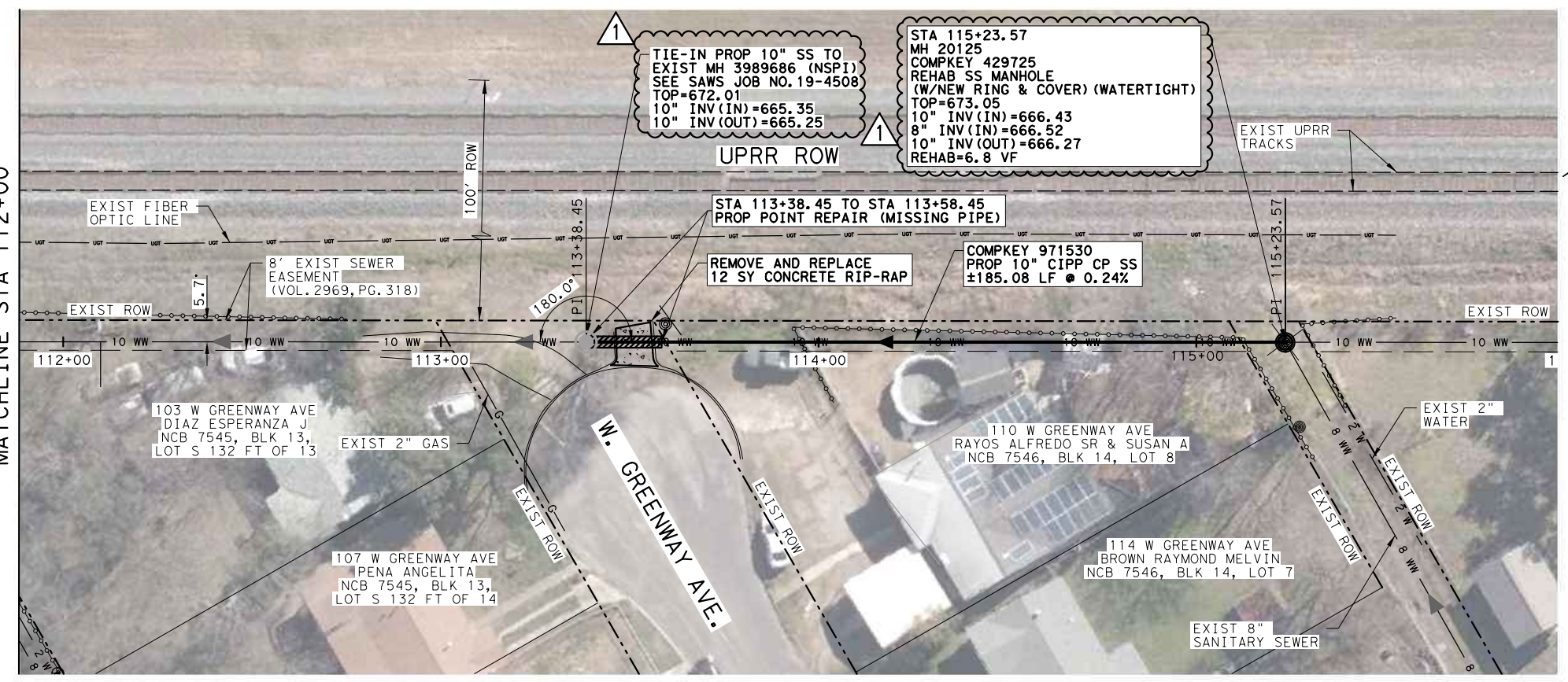
MULTIPLE SEWERSHED PACKAGE 15: CIPP
 SEWER PLANS SET 1 OF 2

**GENERAL HUDNELL
 SEWER PLAN VIEW
 STA 104+00 TO STA 108+00
 SHEET 2 OF 4**

HORIZ. SCALE: 1"=40'	VERT. SCALE: 1"=10'
0 20 40	0 5 10
SCALE IN FEET	SCALE IN FEET
MAP No(s):	DATE: 10/5/2023
SAWS JOB NO.: 23-4507	
DRWN BY:	CHGD BY:
	S36

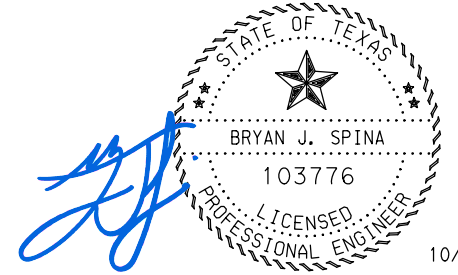
10/5/2023
 Plotted by: jinoencio
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SEE SHEET S37
 MATCHLINE STA 112+00



ITEM #	DESCRIPTION	UNIT	QTY
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	108
505.1	CONCRETE RIPRAP (5" THICK)	SY	12
SP507	REMOVE AND REPLACE FENCE*	LF	30
515.1	TOPSOIL (4")	CY	2
520.1	HYDROMULCHING	SY	12
851	ADJUST EXISTING MANHOLE	EA	1
852.3	EXTRA DEPTH MANHOLE (>6')	VF	0.8
866	PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (<15" MAIN)	LF	185
SP901.1	10" CIPP SANITARY SEWER PIPE, ALL DEPTHS	LF	185
SS910	MANHOLE REHABILITATION	VF	6.8
SP1103	POINT REPAIRS FOR 10" DIAMETER (ALL DEPTHS)*	EA	1

* TO BE USED AS NEEDED AND AS DIRECTED BY SAWS INSPECTOR AND/OR ENGINEER



- NOTE:
- IN ACCORDANCE WITH SAWS STD SPEC 1103, SURFACE RESTORATION FOR ACCESSING AND CONDUCTING POINT REPAIRS SHALL BE SUBSIDIARY TO THE POINT REPAIR WORK.
 - CONTRACTOR TO NOTIFY OWNER OF 103 W GREENWAY AVE 72 HOURS PRIOR TO CONSTRUCTION.
 - TEMPORARY FENCING SHALL BE INSTALLED WHERE EXIST FENCING IS REMOVED UNTIL WORK IS COMPLETE AND NEW FENCING IS INSTALLED (NSPI).
 - A VARIANCE FOR THE 10" SANITARY SEWER MAIN COMPKEY 971530 WITH SLOPE BELOW THE MINIMUM SLOPE FOR A 10" MAIN PER TCEQ WAS SUBMITTED ON 08/03/2023 AND APPROVED 08/28/2023.
 - REMOVAL AND REPLACEMENT OF EXIST FENCING SHALL BE USED AS NEEDED AND APPROVED BY SAWS INSPECTOR AND ENGINEER AND SHALL MATCH THE EXIST FENCE LOCATION AND TYPE.
 - ITEM 1103 POINT REPAIR IS PROVIDED TO BE USED ONLY IF NECESSARY AFTER PRE-TELEVISIONING AND APPROVED BY THE ENGINEER.

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- - - ROW LINE
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- ⊙ PROP MANHOLE
- ▲ FLOW DIRECTION
- PROP SS LATERAL
- // — EXIST SS LATERAL
- - - ABANDON
- - - SS LATERAL
- - - CLEAN OUT
- ★ UTILITY CROSSING
- ▨ TRENCH REPAIR
- ▩ CONCRETE REPAIR
- 24" STEEL CASING
- ⊕ CONC ENCASEMENT
- ⊕ ABANDON & GROUT
- SUE LOCATIONS

NO	DATE	DESCRIPTION	DWG	CHK
1	10/05/23	REVISED BY ADDENDUM #2	J1	BS

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SAWS
 SAN ANTONIO WATER SYSTEM

MULTIPLE SEWERSHED PACKAGE 15: CIPP
 SEWER PLANS SET 1 OF 2

**GENERAL HUDNELL
 SEWER PLAN VIEW
 STA 112+00 TO END
 SHEET 4 OF 4**

HORIZ. SCALE: 1"=40'
 0 20 40
 SCALE IN FEET

VERT. SCALE: 1"=10'
 0 5 10
 SCALE IN FEET

MAP No(s):
 SAWS JOB NO.: 23-4507
 DRWN BY: DSGN BY: CHKD BY:

DATE: 10/5/2023

S38