



**Central Sewershed Package 7 - UIW
Solicitation Number: CO-00322
Job No.: 18-4536**

**ADDENDUM 2
February 28, 2020**

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.

RESPONSE TO BIDDERS QUESTIONS

- 1. Question:** CIPP standard specification section 901.4.3.e.6 requires a soil modulus of 500 psi to 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: Please see Changes to Specifications section below.

- 2. Question:** CIPP standard specification section 901.4.3.e.7 requires that the groundwater used in the CIPP design parameters be at the ground surface at a minimum, or the elevation of the 100-year floodplain water surface, whichever is greater. On previous projects, this section has been replaced with language saying that groundwater depth shall be assumed at ground surface and eliminating the reference to utilizing the elevation of the floodplain in the designs. Please confirm that the Contractor will again only need to assume groundwater is at the surface and will not need to take the floodplain into account in the CIPP thickness designs.

Response: Please comply with the SAWS Specification 901.4.3.e.7 as written. The flood plain need to be considered in the CIPP thickness designs and shall not be waived.

- 3. Question:** The Statement of Bidder's Experience says that Project A-3 can be the same project as Project A-1 or A-2, but per the pre-bid meeting presentation document, Projects A-1, A-2, and A-3 are all required to be different projects. Please clarify.

Response: Statement of Bidder's Experience, Project A-1 shall be a different project than Project A-2 listed. Project A-2 shall be a different project than Project A-1. Project A-3 may be the same as Project A-1, Project A-2, Project A-4 or Project A-5 listed, if project meets all the experience requirements required. However, PowerPoint slides state that A-1, A-2, A-3 shall be separate projects, which is revised as above.

- 4. Question:** Please clarify what circumstances would result in the intermediate demob / remob item being authorized and used.

Response: Intermediate Demobilization and Remobilization item shall only be paid if prior authorization in writing was given by SAWS. Payment of this item is limited to delays outside the Contractor's control and that are not otherwise described and provided in the General Conditions.

- 5. Question: Special Provisions to the Technical Specifications section 855.4.3 references constructing manhole vents as part of the manhole reconstruction where vents are called out on the plans, and there is a detail provided for performing this work on drawing DET-03 (sheet 30), but none of the manholes shown to be reconstructed appear to call for a vent to be constructed. Please clarify if any manholes will require a vent to be constructed, and if so, which ones.**

Response: Manholes 10833 (Sheet C-09) and 23754 (Sheet C-11) require vents. See attached revised sheets for vent locations.

- 6. Question: Can the street bridge near the 54" siphon accommodate the weight of a fully loaded Tractor Trailer (18-wheeler)? If yes, then can that bridge be used during the project?**

Response: The vehicular bridge shown as part of the access route (Sheet C-08) may be used for truck traffic. The bridge is HS-20 rated.

- 7. Question: What tasks can be performed after the NTP but prior to the May 13th full mobilization on campus? Will Pipe Cleaning, Video Inspection of Pipe, Deployment of SWPPP, Tree Protection, some Tree Trimming, Bypass Pipe delivery, Equipment Staging be allowed?**

Response: Work that may be performed prior to full mobilization on May 13th would be performed at night and weekends. Any work performed prior to May 13th such as pipe cleaning, video inspection of pipe, tree protection and trimming cannot impede pedestrian and traffic flow, parking and must be coordinated with the property owner. Staging area will not be available for pipe delivery and equipment staging until May 13th.

- 8. Question: Full mobilization is allowed on or after 13May (Full on Construction). Substantial completion is required by 1July (48 days), multiple heavy and highly specialized tasks within a limited space being assembled and disassembled simultaneously along a 2800LF managed and secured path. Final completion is required by 14July. Will the Owner and Engineer provide the facts and assumptions utilized to determine the forty-eight-day duration between full mobilization and final completion in order to consider alternatives to meeting the planned schedule?**

Response: Preliminary work may commence the start of April. Work may occur 24 hours a day, six days a week with multiple crews and execution of tasks in parallel.

- 9. Question: Will SAWS accept a schedule that extends any construction tasks past the 1August Right of Entry?**

Response: A schedule extension is not feasible for this project.

- 10. Question: Please state if you believe 48 days is a reasonable amount of time for completing all the major tasks concurrently within a very limited space and then seeking to impose liquidated damages on the contractor having performed well at a reasonably optimal pace? The Right of Entry Permits expire for UIW on 1August.**

Response: With preliminary work performed prior to full mobilization and 24 hours a day work with reasonable work area we believe the schedule is achievable.

- 11. Question: Would SAWS seek to extend the Right of Entry expiration beyond the 1Aug date in order to include some final clean up, punch list type construction tasks, if justified? Would a schedule that indicated such be accepted with the bid or would it disqualify the bidder?**

Response: The area must be in a condition to return to the property owner for use on August 1st. A schedule beyond August 1, 2020 would be grounds for disqualification.

- 12. Question: Would SAWS consider separating the project into phases and extend the contract time to 1Aug2021 and permit the contractor Right of Entry during Holiday breaks and through the Summer break 2021?**

Response: Unfortunately, separating the projects and extending the contract time is not feasible.

- 13. Question: Under what circumstances could the contractor be granted an extension to the Right of Entry Permit at UIW after the August 1 date? Please provide examples of construction tasks that would be allowed, i.e. remove tree protection, re-vegetation, hydro mulching, re-building concrete curbs, excessive rain, poor ground conditions. Gives examples of tasks not allowed, i.e. tear down bypass, installing CIPP.**

Response: Final completion is scheduled for July 14th with 17 days allow for weather delays. Including time for weather related delays, the site must be fully restored and, in a condition, to return to property owner by August 1st.

- 14. Question: What would the Right of Entry Permit for UIW cost after 1August? How long would the permit take to obtain?**

Response: The cost of a Right of Entry extension is not available. The property owner needs use of the property by August 1st. Liquidated damages will be accrued after the final completion date.

- 15. Question: If the permit is not granted or extended, then when would the contractor be allowed back to finish the project? Would contract time then be halted, if justified, until a new Right of Entry Permit granted? These questions assume the contractor has performed in an acceptable, agreeable manner with all reasonable diligence.**

Response: That would have to be discussed with the property owners. The property owner requires use of the property by August 1st, and the project is to be completed by August 1st.

- 16. Question: If the project is not complete in time and ROE expires on 8/1, does the contract time stop while agreements are being worked out, or will LD's still be assessed during this time?**

Response: Per the terms of the contract, if final completion is not achieved by the completion date, time will progress, and liquidated damages will accrue.

- 17. Question: What would be the SAWS acceptable expedited plan for cured concrete testing, other than the 28 days stated on the plans? ref. DET-04 and 05.**

Response: Concrete design and testing shall be in compliance with the City of San Antonio Specification Item 300.

CHANGES TO SPECIFICATIONS

1. Insert the following section to Special Provisions to Technical Specifications, H. Revision to Standard Specification Item No. 901 Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water or Steam Cured), after Section 901.3 (Page SPTS-6).

901.4 MATERIALS: ADD the following item to the end of this section:

- 6). *A soil modulus of 1000 psi may be used if documented site-specific soil data (signed and sealed by a professional Engineer registered in the State of Texas) is provided with liner thickness design calculations required in 901.3 Submittals, Section 4.*
2. Remove the Building Wage Decision in its entirety and replace with the revised version issued by the Department of Labor on 02/14/2020.

MODIFICATIONS TO PLANS

1. Plan Sheet C-09 (Central Sewershed UIW, 54-inch sewer plan and profile Sta 10+00 to 14+00)- Replace sheets dated 1/28/2020 with attached sheet dated 2/28/2020.
2. Plan Sheet C-11 (Central Sewershed UIW, 54-inch Sewer plan and profile Sta 18+00 to end)- Replace sheet dated 1/28/2020 with attached sheet dated 2/28/2020.

END OF ADDENDUM 2

This Addendum is 13 pages in its entirety, including an attachment.

Attachments: General Wage Decision Number TX20200231 (rev. 02/14/2020)
Revised sheets



David F. Ridgway
Arcadis



"General Decision Number: TX20200231 02/14/2020

Superseded General Decision Number: TX20190231

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: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 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, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 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 calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	02/14/2020

ASBE0087-014 01/01/2018

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)....	\$ 22.72	10.02

BOIL0074-003 01/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 28.00	22.35

ELEC0060-003 06/01/2019

	Rates	Fringes
ELECTRICIAN (Communication Technician Only).....	\$ 22.55	9%+5.45

 * ELEC0060-004 06/01/2019

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 28.60	18%+5.45

 * ELEV0081-001 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 41.90	34.765

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 06/01/2019

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 22.70	6.73

 IRON0084-011 06/01/2019

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 24.42	7.12

 PLUM0142-009 08/07/2019

	Rates	Fringes
HVAC MECHANIC (HVAC Electrical Temperature Control Installation Only).....	\$ 30.25	13.36
HVAC MECHANIC (HVAC Unit Installation Only).....	\$ 30.25	13.36
PIPEFITTER (Including HVAC Pipe Installation).....	\$ 31.05	13.76
PLUMBER (Excludes HVAC Pipe Installation).....	\$ 31.05	13.76
Excludes HVAC Pipe Installation		

 SFTX0669-002 04/01/2019

	Rates	Fringes
SPRINKLER FITTER (Fire		

Sprinklers).....\$ 29.53 21.27

SHEE0067-004 06/01/2019

	Rates	Fringes
Sheet metal worker		
Excludes HVAC Duct		
Installation.....\$ 26.81		16.80
HVAC Duct Installation Only.\$ 26.81		16.80

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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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 www.dol.gov/whd/govcontracts.

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 Regional Office for the area in which the survey was conducted because those Regional Offices have 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.

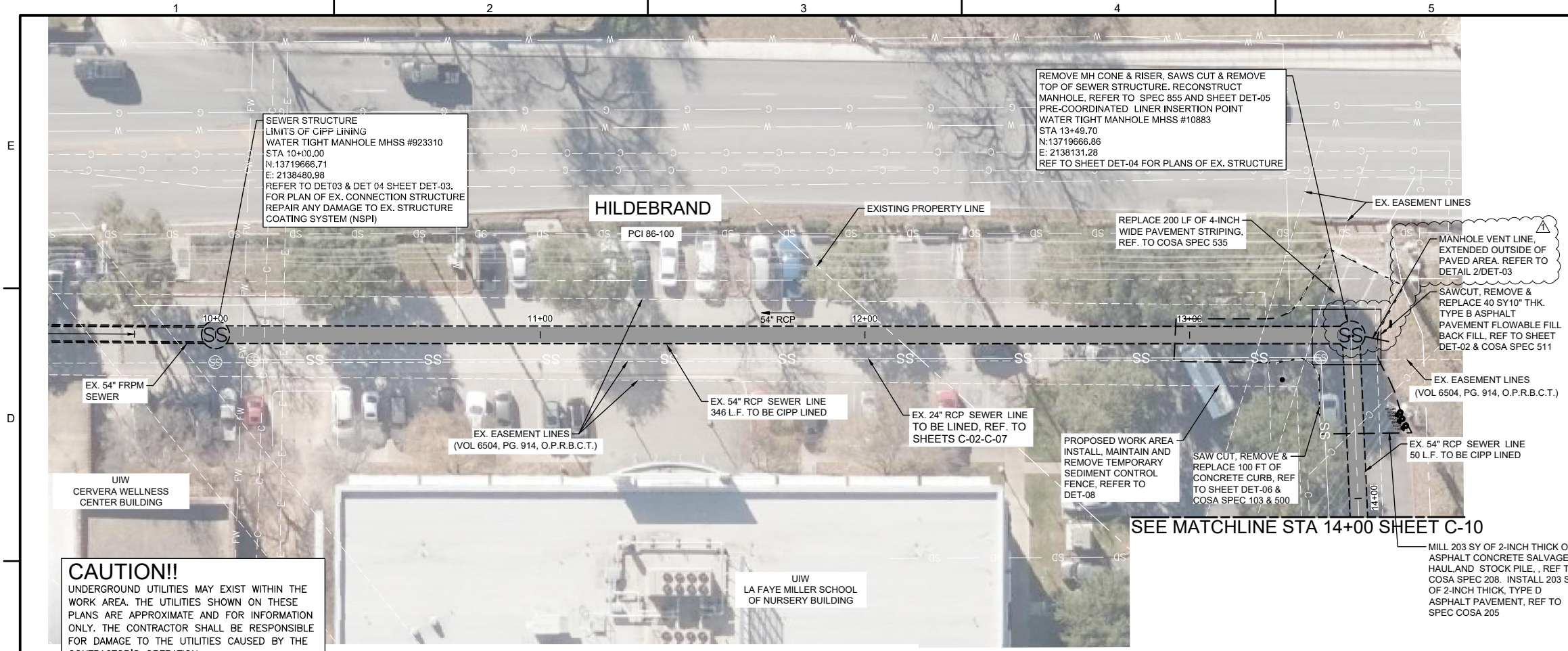
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

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 DECISION"



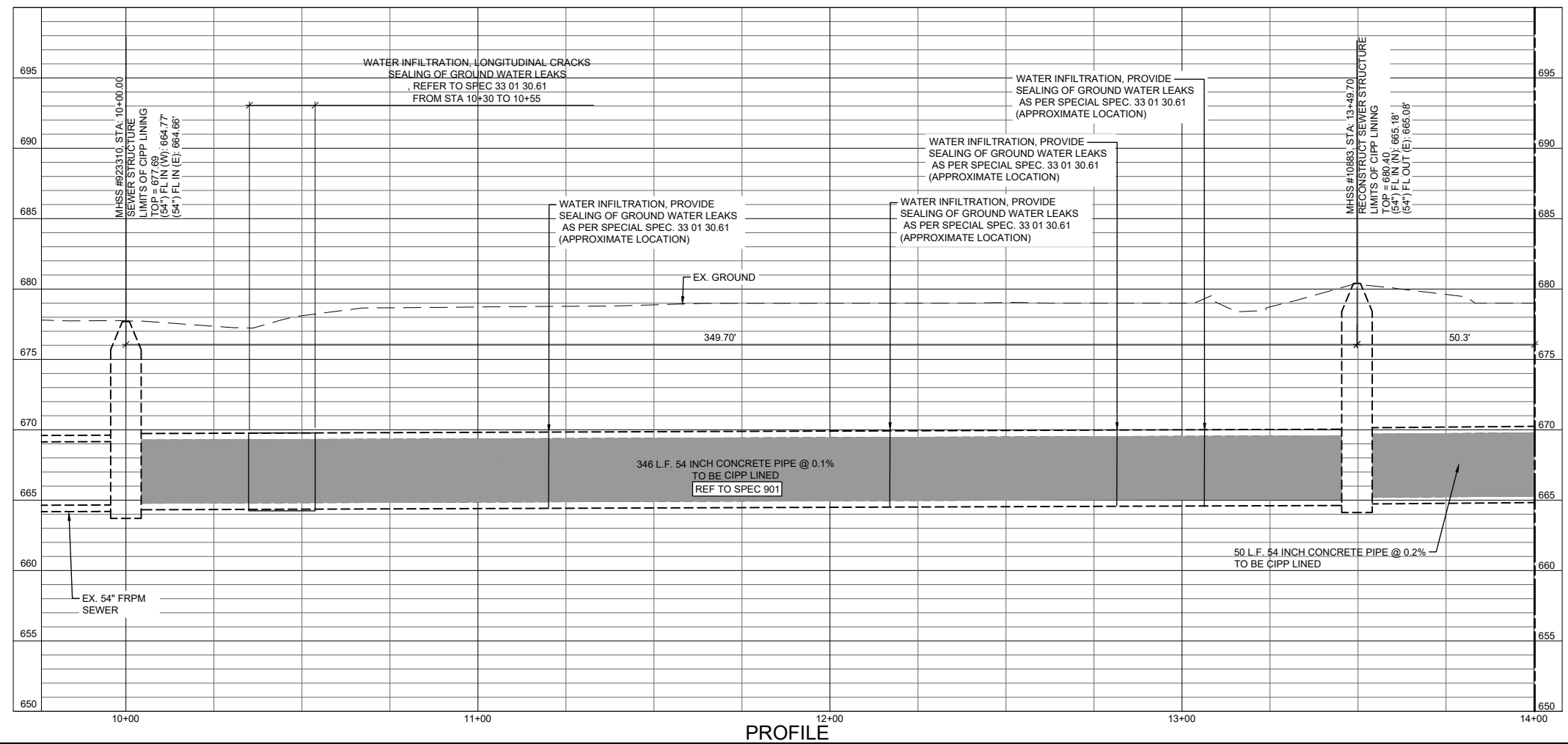
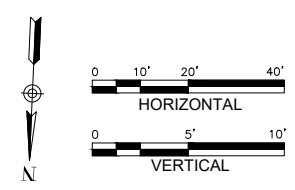
CAUTION!!
 UNDERGROUND UTILITIES MAY EXIST WITHIN THE WORK AREA. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO THE UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.

PLAN

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.10	Remove Concrete Curb	LF	100
202.10	Prime Coat	GAL	40.6
203.00	Tack Coat	GAL	20.3
205.00	Hot Mix Asphaltic Pavement - Type D (2\"/>		

LEGEND

- EXISTING IRREGULAR / CUSTOM MANHOLE
- EXISTING MANHOLE FOR 24 INCH SANITARY LINE
- EX. SANITARY LINE TO BE CIPP LINED
- EXISTING SANITARY LINE
- EXISTING STORM DRAIN LINES
- EXISTING ELECTRIC LINES
- EXISTING GAS LINES
- EXISTING WATER LINES
- EXISTING COMMUNICATION LINES
- EXISTING FIREWATER LINES
- PROP. SANITARY EASEMENT
- PROP. RIGHT OF ENTRY
- FEMA 100YR FLOODPLAIN
- DIRECTION OF FLOW
- SILT FENCING
- EXISTING EOP AND CURB



PROFILE

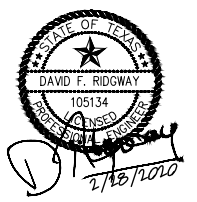
TRENCH EXCAVATION SAFETY PROTECTION:

- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS, AVAILABLE GEOTECHNICAL INFORMATION, AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES.
- THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.
- SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

NOTES:

- SEE TREE PROTECTION PLAN NOTES. SHEETS TP-01 & 02 AND TREE PROTECTION DETAILS ON SHEETS DET-10 THRU DET-13.
- SEE SAWS GENERAL CONSTRUCTION NOTES SEWER SECTION NOTE 5 ON SHEET G-03 FOR SMARTLID MANHOLE COVER NOTE.
- TRENCH PROTECTION SAFETY PER OSHA REQUIREMENTS. FOR EXCAVATION DEEPER THAN 20', A TRENCH SAFETY PLAN DESIGNED BY A TEXAS LICENSED ENGINEER (SIGNED AND SEALED) SHALL BE SUBMITTED AS PRODUCT DATA TO SAWS AND ENGINEER.

NOTE:
 ALL MANHOLES SHALL REMAIN TO BE CLOSED OR SECURED BEFORE LEAVING THE WORK SITE. CONTRACTOR TO ENSURE THAT THERE IS NO SMOKING WHEN WORKING ON CAMPUS AND LIMIT ANY LOUD MUSIC.



CENTRAL SEWERSHED
 PACKAGE 7
 JOB NO. 18-4536

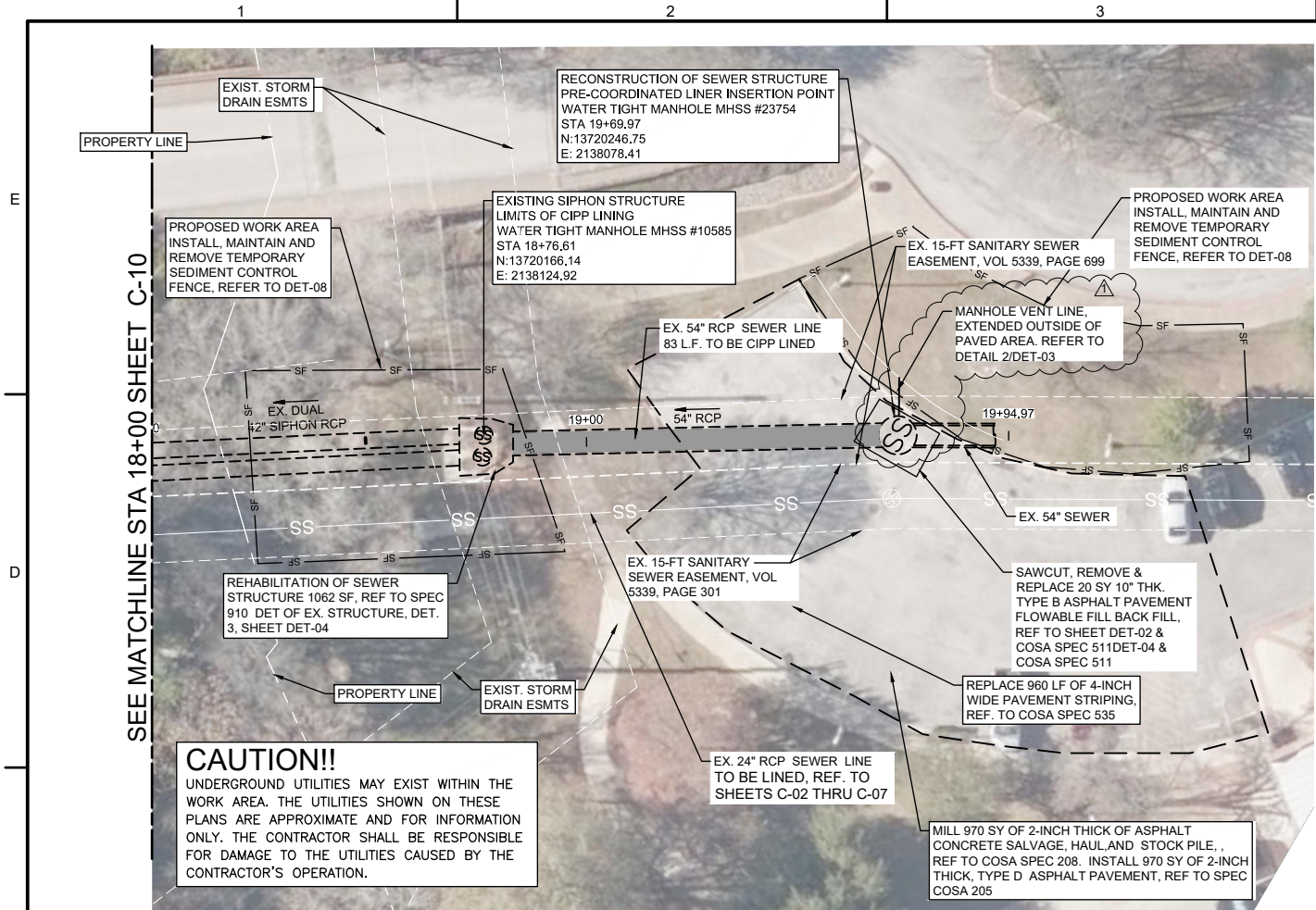
NO.	DATE	REVISION	BY
1	02/2020	ADDENDUM NO.2	DR

COPYRIGHT: ARCADIS U.S., INC.
 DATE: JANUARY 2020
 PROJECT NO.: 02196064.0000
 DESIGNED BY: D. RIDGWAY
 DRAWN BY: B. SCROGGINS
 CHECKED BY: M. KRISHNAMOORTHUJATHA

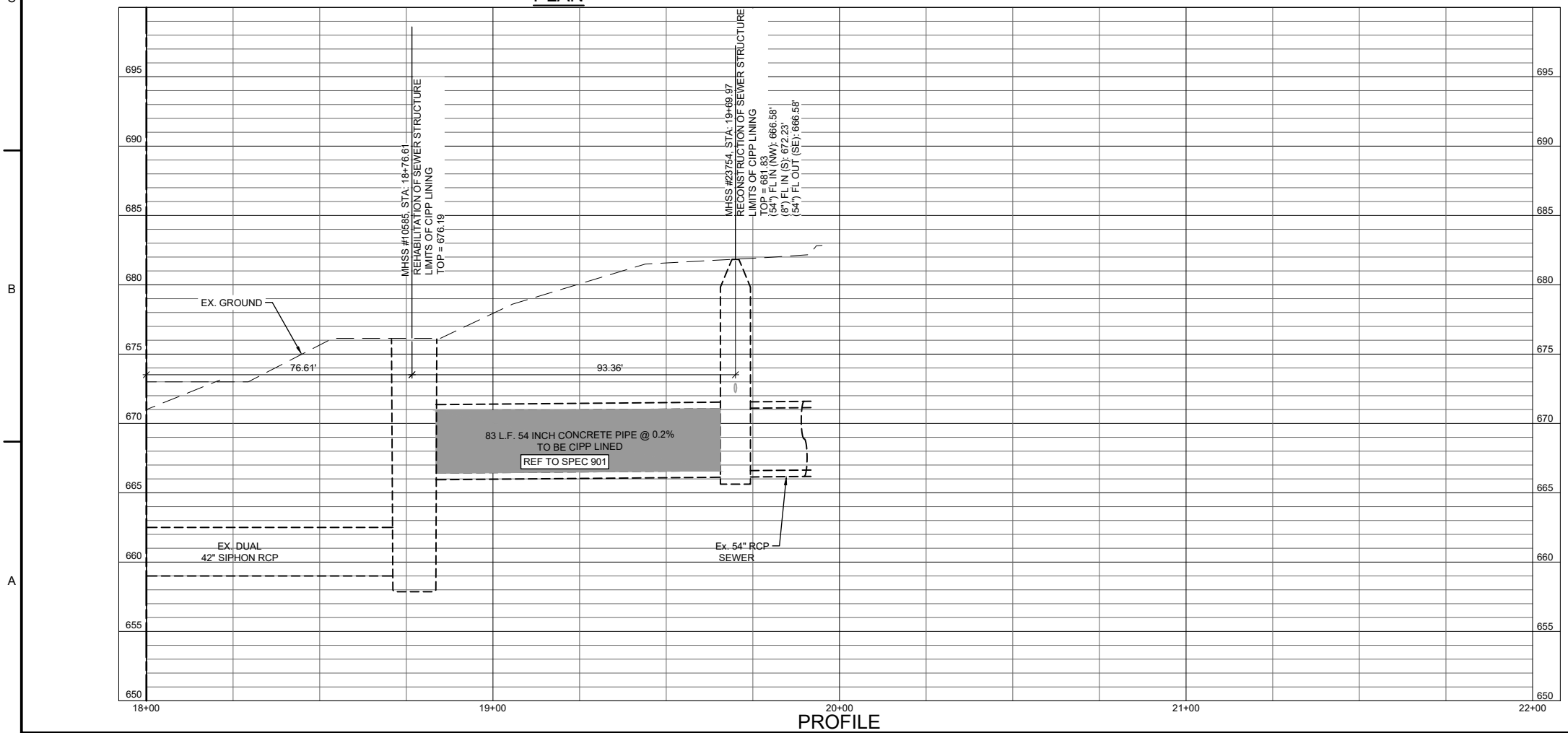
SHEET TITLE
 CENTRAL SEWERSHED
 UIW, 54 INCH SEWER
 PLAN AND PROFILE
 STA 10+00 TO 14+00
 COMPKEYS 968504,
 969110

SCALE: AS SHOWN

SHEET **C-09**
 14 OF 52



PLAN

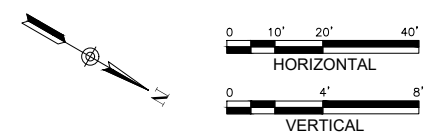


PROFILE

ITEM	DESCRIPTION	UNIT	QTY
202.1	Prime Coat	GAL	194
203	Tack Coat	GAL	97
205	Hot Mix Asphaltic Pavement - Type D (2" Compacted Depth)	SY	970
208	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2")	SY	970
511.3	Replacing Pavement (Trench Repair) with Hot Mix Asphaltic Concrete Pavement - Type B - 10-inches compacted depth	SY	20
535.1	4 Inch Wide Yellow Line	LF	250
535.2	4 Inch Wide White Line	LF	960
535	4 Inch Wide Red Fire Line	LF	50
855	Reconstruction of Existing Manhole	EA	1
866.3	Sewer Main Television Inspection (30" and larger)	LF	83
901	Install cured in place pipe (CIPP) Sanitary Sewer Pipe (Hot water cured) 54 inch diameter	LF	83
SS 910.2	Sanitary Sewer Structure Rehabilitation (Noncircular Manholes, and Manholes greater than 4 ft in diameter)	SF	1061.96

LEGEND

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- EXISTING MANHOLE FOR 24 INCH SANITARY LINE
- EX. SANITARY LINE TO BE CIPP LINED
- EXISTING SANITARY LINE
- EXISTING STORM DRAIN LINES
- EXISTING ELECTRIC LINES
- EXISTING GAS LINES
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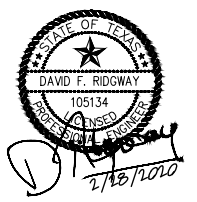
TRENCH EXCAVATION SAFETY PROTECTION:

- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS, AVAILABLE GEOTECHNICAL INFORMATION, AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES.
- THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.
- SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

NOTES:

- SEE TREE PROTECTION PLAN NOTES, SHEETS TP-01 & 02 AND TREE PROTECTION DETAILS ON SHEETS DET-10 THRU DET-13.
- SEE SAWS GENERAL CONSTRUCTION NOTES SEWER SECTION NOTE 5 ON SHEET G-03 FOR SMARTLID MANHOLE COVER NOTE.
- TRENCH PROTECTION SAFETY PER OSHA REQUIREMENTS. FOR EXCAVATION DEEPER THAN 20', A TRENCH SAFETY PLAN DESIGNED BY A TEXAS LICENSED ENGINEER (SIGNED AND SEALED) SHALL BE SUBMITTED AS PRODUCT DATA TO SAWS AND ENGINEER.

NOTE:
ALL MANHOLES SHALL REMAIN TO BE CLOSED OR SECURED BEFORE LEAVING THE WORK SITE. CONTRACTOR TO ENSURE THAT THERE IS NO SMOKING WHEN WORKING ON CAMPUS AND LIMIT ANY LOUD MUSIC.



SAN ANTONIO WATER SYSTEM



CENTRAL SEWERSHED PACKAGE 7 JOB NO. 18-4536

NO.	DATE	REVISION	BY
1	02/2020	ADDENDUM NO.2	DR

COPYRIGHT: ARCADIS U.S., INC.
DATE: JANUARY 2020
PROJECT NO.: 02196064.0000
DESIGNED BY: D. RIDGWAY
DRAWN BY: B. SCROGGINS
CHECKED BY: M. KRISHNAMOORTHUJATHA

SHEET TITLE
CENTRAL SEWERSHED UIW, 54 INCH SEWER PLAN AND PROFILE STA 18+00 TO END COMPKEY 977384

SCALE: AS SHOWN

SHEET **C-11**
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