



Bitters Pump Station Upgrades and Tank Replacement (RFCSP)

Solicitation Number: CO-00601

Job No.: 20-6007

ADDENDUM No. 2

June 28, 2023

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the price 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 Respondent Questionnaire.

RESPONSES TO QUESTIONS

- 1. Question: Please provide a list of permits and their associated costs that the General Contractor will be required to obtain for this project.**

Response: The City of San Antonio (CoSA) permit application as required for work within the COSA ETJ have been submitted to the respected agencies along with payment of the permit fees. The Contractor is required to secure the associated Building Permits, inspection requests, special inspections requests, demolition permits and applicable trade permits. In addition to this contractor shall submit Texas Department of State Health services asbestos notification and TCEQ general permit for stormwater discharges. The Permit Allowance may be used to pay for permit fees. The Contractor is responsible for compliance with all Building Permit requirements during construction such as storm water quality measures, silt fence, right-of-way traffic control, etc. The selected Contractor will be provided with all copies of permits that have been initiated.

- 2. Question: Please confirm that water will be available on site for use during all construction activities, leak testing, and disinfection at no cost to the Contractor.**

Response: Water for leak testing and disinfection shall be available at no cost to the Contractor. Water for construction activities is the responsibility of the contractor. Contractor is required to procure a construction meter from a SAWS Customer Service Center and pay for any associated fees, deposit, and water use charges for water associated with construction activities. Refer to the website for additional information:

https://apps.saws.org/business_center/Developer/firehydrants/contract/agreement.cfm

- 3. Question: Please confirm there are no domestic manufactured material requirements (AIS, Buy American, etc.) for this project.**

Response: There are no "Buy American" or "American Iron and Steel" (AIS) requirements on this project.

- 4. Question: Specification Section 01500, Article 1.09.3, states that the Contractor shall provide field office for the use of the Owner personnel for the duration of the project that shall be co-located with the Contractor's temporary construction facilities at the Somerset Pump Station construction site. Please confirm that a working area within the Contractor's trailer for the Owner's personnel will be acceptable and that office trailers will be allowed on site at the Bitters Road Pump Station.**

Response: See "Changes to the Specifications" item 2, Section 01500 - Construction Facilities and Temporary Controls. A dedicated office for the Owner's personnel will be acceptable within the Contractor's Trailer which will be allowed to be located on site at the Bitters Road Pump Station.

- 5. Question: Specification Section 13207, Article 2.02.B, indicates non-prestressed reinforcement bar size shall not be greater than a #5 bar. Please confirm the tank designer may utilize up to a #6 bar size in accordance with AWWA D110.**

Response: See "Changes to the Specifications" item 3, Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. Tank designer may utilize up to #6 bar size in accordance with AWWA D110.

6. **Question: Specification Section 13207, Article 2.02.A, specifies tank floor minimum thickness of 6” while Contract DWG. D-505 shows an 8” thick floor. Please confirm the required floor minimum thickness shall be 8”.**

Response: See "Changes to the Specifications" item 3, Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. Minimum floor thickness shall be 8” as noted on contract drawings D-505 and S-102.

7. **Question: Please confirm that if the Tank Builder’s means and methods dictate a crane be temporarily located on tank floor, all floor areas subject to crane loads shall be a minimum of 24” thick.**

Response: The tank builder is responsible for designing the tank floor thickness necessary to support a crane load should the contractor choose to temporarily place a crane on the floor.

8. **Question: Specification Section 13207, Article 2.04.B.5, references that if any voids are found in the limestone from the demolition of the existing tank foundation that these should be filled with flowable backfill. The provided as-built drawings of the existing tank foundation do not reference how or if the existing tank foundation is cut into the limestone. Please confirm that if any flowable backfill is required to fill any voids in the limestone caused by the removal of the existing foundation, that these will be paid for via Bid Item 12 – Foundation Subgrade Allowance.**

Response: The existing tank as built drawing shown on plan sheet C-103 indicates the existing tank ring footing as 3 feet 6 inches in depth below the tank floor elevation. The plans for construction of the new tank indicates a minimum depth of excavation of 5 feet - 6 inches for the tank floor, ring footing, free draining stone and crushed limestone fill. Should different or unexpected site conditions be encountered, Bid Item 12 could be utilized for flowable fill to fill any voids.

9. **Question: Please confirm the intent for the CFD analysis of the inlet pipe orientation (Section 13207, Article 2.06.A.1.b). Based on the tank dimensions and pipe layout, the flow will likely not reach the top and a mixing system should be considered if complete mixing is required.**

Response: See “Changes to the Specifications” item 3, Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. A CFD analysis is not required.

10. **Question: Specification Section 13207, Article 2.06.B, indicates the overflow must be braced with stainless steel supports, but the contract drawings show a fully concrete encased pipe. Please confirm the tank manufacturer shall design the overflow to match the adjacent existing Bitters Concrete GST with a partially encased overflow and 316 S.S. weir cone.**

Response: See “Changes to the Specifications” item 3, Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. Tank manufacturer MAY design the overflow to match the adjacent existing Bitters Concrete GST with a partially concrete encased overflow.

11. **Question: Specification Section 13207, Article 2.06.C, indicates the two roof hatches must be a 42”x36” but specifies two different hatches for two different sizes. Please confirm what hatch will be required for this tank hatch. Please note Bilco does not manufacture a 42”x36” Aluminum Type D Hatch. Please specify the exact model required.**

Response: See “Changes to the Specifications” item 3, Section 13207 – Wire-Wound Prestressed Concrete Tank with Steel Diaphragm. Hatch size shall be 42” x 36” as noted. Hatch shall be Halliday F1R series.

12. **Question: Contract Drawings, Sheet G-002, Note 12 states that the Contractor shall coordinate their activities with the WRIP Segment 3 Contractor to avoid any issues with construction or access issues. Please clarify the scope of work that the WRIP Segment 3 contractor will be performing on this site. Due to the space constraints of the Bitters Road Pump Station site, it will be difficult to coordinate work between multiple contracts.**

Response: See “Changes to the Plans” item 1. The note has been removed from sheet G-002.

13. **Question: Contract Drawings, Sheet C-106, shows trees 1338 and 1339 to be protected and to remain. Note that these trees will likely need to be trimmed to accommodate tank construction; Additionally, with all of the construction traffic and excavation/dirt work near said trees, they may not survive. Please confirm the trees may be trimmed as needed, and what financial damages the contractor would be liable for if trees do not survive construction.**

Response: Trees 1338 and 1339 shall be protected as shown on sheet C-106. In the event of trees not surviving construction, the Contractor shall be responsible for replacing trees and be compliant with requirements imposed by the City of San Antonio.

- 14. Question: Contract Drawings, Sheet C-107, Note 10 states that tree pruning shall only be completed by a City of San Antonio Tree Maintenance licensed contractor. Please provide a list of these licensed contractors.**

Response: Contractor may contact the CoSA Development Services Tree Preservation office and/or CoSA Contractor Connect website to obtain the list of tree maintenance licensed contractors. Refer to the website for additional information: <https://www.sanantonio.gov/DSD/Online/ContractorConnect>.

- 15. Question: Contract Drawings, Sheet D-501, please confirm all additional lean concrete footing extensions or knee walls required below the extended reinforced footing to prevent undermining the tank foundation at the overflow structure will not need to be reinforced.**

Response: All concrete footing extensions and pipe encasements under the tank shall be steel reinforced.

- 16. Question: Contract Drawings, Sheet D-501, Detail 1, shows the Inlet with no elbow fitting. Please confirm if any elbow fitting is required for this tank. If so, please confirm the floor handrail may be removed in front of the egress of the pipe.**

Response: An elbow fitting is not a requirement at the inlet. Floor handrail shall remain.

- 17. Question: Contract Drawings, Sheet D-505, Detail 1, calls Springline El. At 899.33 while D-101 calls for Springline at 899.00. Please confirm the Springline shall be 899.00 to match the previous Bitters Road project.**

Response: See "Changes to the Plans" Sheet D-505, item 2. Springline shall be 899.00 as shown on D-101.

- 18. Question: Do you have as build's for the existing tank to be demolished ?**

Response: As-builts of the existing tank are included in Sheets C-103 – C-105.

- 19. Will water be supplied by SAWS at the Bitters Pump Station ?**

Response: See response to question No.2.

CHANGES TO THE SPECIFICATIONS

1. SUPPLEMENTAL CONDITIONS

- Page 1, Article IV, Contract Administration; DELETE Paragraph 2 in its entirety and REPLACE with the following "**CONTRACTORS** – The Contractor shall perform the Work with its own organization on at least 40% of the total original contract price to be confirmed by the Bidder on page 1 of the Good Faith Effort Plan".

2. SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

- Paragraph 1.09 A Item No. 3; DELETE in its entirety and REPLACE with the following:

"3. CONTRACTOR shall provide a field office for the use of Owner's personnel for the duration of the project. The field office shall be located within Contractor's temporary construction facilities/trailer at the Bitters Pump Station construction site. The office size shall be a minimum of 10' x 10' and shall be equipped with an L-shaped desk, two (2) chairs, and a filing cabinet. The trailer shall be equipped with air conditioning, heating, drinking water supply, sanitary facilities, electricity, telephone, wireless internet connections and a small conference room table with six (6) chairs, a plan rack, a lay-down table, a storage cabinet/closet, and a printer/copier/scanner with wireless networking capability. Also provide an all-weather access and parking area nearby.

Provide (and refill when necessary) paper goods (toilet paper, paper towels, drinking water cups, etc.) and soap. Include maintenance / janitorial services. The door to the Owner's Personnel field office shall be lockable with keys held by Owner only.

If the trailer is not new, it should be clean, in good condition, and meet all code requirements at the time of move-in."

3. SECTION 13207 – WIRE-WOUND, PRESTRESSED CONCRETE TANK WITH STEEL DIAPHRAGM

- Paragraph 2.02 A; REMOVE the sentence “the membrane slab floor thickness shall be no less than 6-inches and shall be impermeable” and REPLACE with the following “the membrane slab floor thickness shall be no less than 8-inches and shall be impermeable”.
- Paragraph 2.02 B, DELETE paragraph 3 in its entirety and REPLACE with the following “Non-prestressed reinforcement bar size shall be not greater than 5/8 inch (#6), and bar spacing shall not exceed 12 inches.”
- Paragraph 2.06.A.1.b; DELETE in its entirety.
- ADD the following immediately after the fourth sentence in paragraph 2.06.B. “Alternatively pipe could be supported by concrete encasement integral to the tank wall structure.”
- Paragraph 2.06 C; REMOVE the last sentence “The small hatches shall be single leaf, Type SS-50, as manufactured by Halliday Products. The big hatch shall be double leaf, Type D, as manufactured by Halliday Products” and REPLACE with the following “The hatches shall be single leaf, F1R series as manufactured by Halliday Products”.

CHANGES TO THE PLANS

1. DRAWING G-002 – GENERAL NOTES
 - REMOVE and REPLACE in its entirety with attached.
2. DRAWING D-505 – STANDARD PROCESS DETAILS V
 - REMOVE and REPLACE in its entirety with attached.

END OF ADDENDUM

This Addendum, including these 4 pages, is 7 pages with attachments in its entirety.
Attachments:



Jaime Kypuros, P.E.
Tetra Tech

Attachments:

1. Drawings G-002 and D-505.

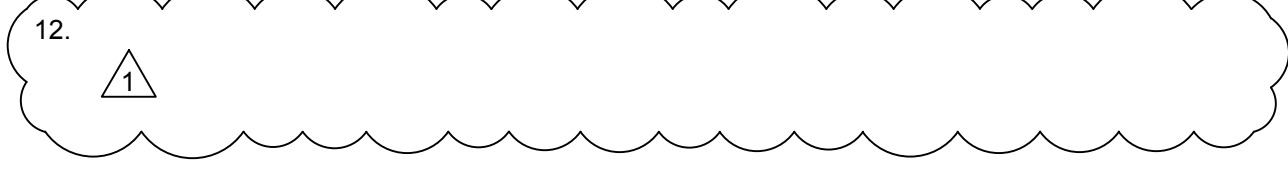
ATTACHMENT 1
DRAWINGS G-002 AND D-505

SAWS GENERAL CONSTRUCTION NOTES

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
 - CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM, TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
 - CURRENT TxDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRAINAGE."
 - CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
 - CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."
 - CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
 - CURRENT CITY OF SAN ANTONIO "RIGHT-OF-WAY ORDINANCE AND CRITERIA MANUAL."
- OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, [HTTPS://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS/](https://www.saws.org/business_center/specs/). UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.
- NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTOR, AND PROVIDE NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED RESIDENTS AND/OR PROPERTY OWNERS TWO WEEKS PRIOR TO EXCAVATION.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED PRIOR TO SUBMITTAL OF PIPE FABRICATION DRAWINGS. LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND PROTECT THEM DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAN ANTONIO WATER SYSTEM:
SAWS UTILITYLOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/service/locates)

COSA DRAINAGE 210-207-8052
COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720
TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND SUBMITTED TO SAWS PRIOR TO SUBMITTING STEEL PIPE FABRICATION DRAWINGS.
- ALL WORK IN THE CITY OF SAN ANTONIO, AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.
- COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS EXCEPT DURING EMERGENCIES. REQUEST SHOULD BE SENT TO CONSTWORKREG@SAWS.ORG. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUESTS WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREG@SAWS.ORG. ANY AND ALL SAWS WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL NOT BE ALLOWED.
- PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. THE PRE-SITE VIDEO SHALL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS.
- POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THE WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.



CAUTION UNDERGROUND UTILITIES

LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, TELEPHONE, AND FIBER OPTICAL LINES, SITE PRIMARY ELECTRICAL DUCT BANKS, AND GAS LINES. PHONE 811 OR USE TEXAS811.ORG ONLINE AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTORS SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

GENERAL NOTES:

- THE CONTRACTOR SHALL HAVE A PROJECT SIGN FOR EACH AREA UNDER CONSTRUCTION UP TO A MAXIMUM OF TWO. SIGNS WILL BE RELOCATED AT THE DIRECTION OF THE INSPECTOR ASSIGNED TO THE PROJECT.
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION. NO SEPARATE PAY ITEM.

SAN ANTONIO WATER SYSTEM	210-233-3589
COSA DRAINAGE	210-207-2800
TEXAS STATE WIDE ONE CALL LOCATOR	1-800-545-6005
CPS ENERGY	210-978-3500
- CONTRACTOR IS RESPONSIBLE TO POTHOLE ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION TO AVOID CONFLICTS AND DELAYS DURING CONSTRUCTION. NO SEPARATE PAY ITEM.
- THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3589 48 HOURS PRIOR TO START OF WORK.
- UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL SAWS STANDARD DETAILS AND THESE GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THEY OCCUR.
- FIELD VERIFIED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. CONTRACTOR SHALL NOT NOTIFY THE ENGINEER OF ALL FIELD VERIFIED DIMENSIONS.
- ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- RESTORE EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
- ALL TRENCHES MUST BE BACKFILLED WITH AN ALL WEATHER SURFACE MATERIAL AT THE END OF EACH WORK DAY.
- ALL BACKFILL MATERIAL SUCH AS SAND, GRAVEL, DIRT, ETC. AND CONSTRUCTION EQUIPMENT NOT USED BY THE END OF EACH WORK DAY, MUST BE STORED IN A LOCATION OTHER THAN ON PAVEMENT OR RIGHT-OF-WAY.
- WORK HOURS: 8:00 A.M. TO 5:00 P.M. ADVANCE NOTICE AND APPROVAL REQUIRED FROM SAWS FOR EXTENDED WORK HOURS AND/OR WEEKEND HOURS, SUBJECT TO INSPECTION FEES AND INSPECTOR OVERTIME PAY.
- ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THESE MATERIALS IN ACCORDANCE WITH ALL LOCAL STATE AND FEDERAL REGULATIONS. NO WASTE MATERIAL SHALL BE PLACED IN LOW AREAS THAT WILL BLOCK OR ALTER THE FLOW OF EXISTING NATURAL DRAINAGE.
- WATER VALVE COVERS SUBJECT TO VEHICULAR TRAFFIC SHALL BE RATED TO H20 LOADING AND HAVE A 3000 PSI CONCRETE COLLAR.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
- FOLLOW & CORRESPOND TO ALL OSHA REGULATIONS DURING THE CONSTRUCTION OF ALL NEW TANKS.
- LOCATE ALL EXISTING SERVICE CONNECTIONS TO ASSURE THAT THESE LINES WILL NOT BE DAMAGED BY CONSTRUCTION OPERATIONS. REPAIR DAMAGE TO SERVICE CONNECTIONS TO OWNER'S SATISFACTION.
- MAINTAIN ALL STREETS WITHIN PROJECT LIMITS OPEN TO THROUGH TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC.
- REPLACE ANY PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION.
- IMMEDIATELY FOLLOWING COMPLETION OF BACKFILL APPLY EROSION CONTROL HYDROMULCH SEEDING ON ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
- MAINTAIN THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT. RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION.
- BUILD ALL YARD PIPING TO THE ELEVATION ON THE PLANS AND MAINTAIN 5' MIN. CLEARANCE FROM TOP OF ALL YARD PIPING TO FINISHED GRADE.
- VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT OF PRE-CONSTRUCTION CONDITION.

SAWS GENERAL WATER NOTES

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST THREE WEEKS OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. SAWS PRODUCTION CONTROL CENTER 210-233-2016.
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG.

TRENCH SAFETY PROTECTION:

- TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF 29 CFR PART 1926, SUBPART P - EXCAVATION, AS REQUIRED BY OSHA. THE CONTRACTOR SHALL ALSO COMPLY WITH THE PROVISIONS INCLUDED IN ITEM 550, TRENCH EXCAVATION PROTECTION, SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND 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 OR 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. CONTRACTOR SHALL OBSERVE OSHA REQUIREMENTS FOR WORKING IN CONFINED SPACES, ESPECIALLY WITH REGARD TO POTENTIAL SEWER GASES WHEN CONNECTING TO EXISTING SEWER LINES. PAYMENT TO BE PER LINEAR FOOT OF PIPE INSTALLED. AS LISTED ON THE CONTRACTOR'S SCHEDULE OF VALUES. CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION PLAN/PROGRAM MUST BE SUBMITTED AT OR BEFORE THE PRE-CONSTRUCTION MEETING.

CPS ENERGY NOTES

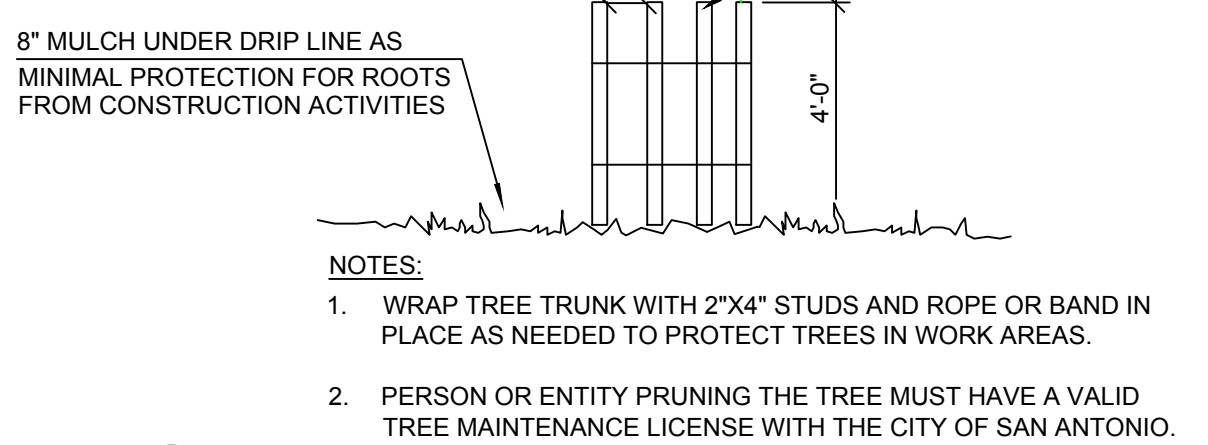
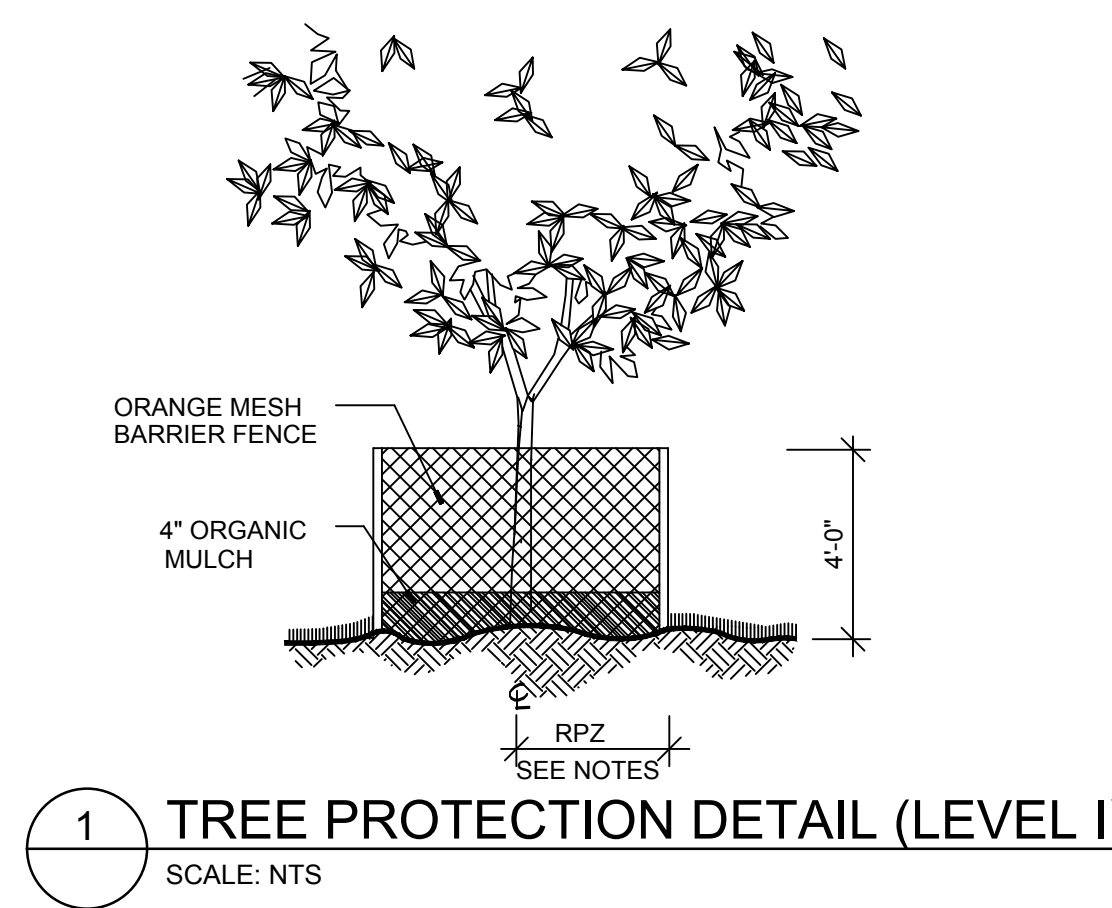
- ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (HEALTH AND SAFETY CODE, TITLE 9, SUBTITLE A, CHAPTER 752) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.
- CALL CPS LOCATOR 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
- THE FOLLOWING CPS CONTACT INFORMATION IS PROVIDED FOR THE CONTRACTORS' USE: CPS LOCATOR - 978-3500
CUSTOMER ENGINEERING (OUTAGES & POLE BRACING) - 210-353-4050 RIGHT-OF-WAY (EASEMENT ACCESS) - 210-353-3686 (MARK BRUMBAUGH)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES ADJACENT TO WORK AREAS.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND CPS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH CPS TO BRACE DISTRIBUTION POWER POLES IF GUY WIRES, ANCHORS OR POLE SUPPORTS ARE IMPACTED.
- CONTRACTOR SHALL COORDINATE ALL BRACING AND RELOCATIONS WITH CPS ENERGY IMMEDIATELY AFTER THE NOTICE TO PROCEED HAS BEEN RECEIVED BY NO MORE THAN 2 WEEKS. CONTRACTOR SHOULD NOTE THAT CPS ENERGY WILL NOT BEGIN WORK ON BRACING OR RELOCATIONS UNTIL PAYMENT HAS BEEN MADE TO CPS ENERGY.
- CONTRACTOR SHALL MAINTAIN ACCESSIBILITY TO AND THROUGHOUT THE CPS EASEMENT 24 HOURS A DAY/SEVEN (7) DAYS A WEEK FOR TRANSMISSION MAINTENANCE.
- CONTRACTOR SHALL RESTORE CPS ENERGY EASEMENT AREA TO EXISTING CONDITIONS OR BETTER AFTER CONSTRUCTION IN THE AREA HAS BEEN COMPLETED. CPS ENERGY REQUIREMENTS DO NOT SUPERSEDE ENVIRONMENTAL REQUIREMENTS OF LOCAL, STATE, OR FEDERAL AGENCIES THAT MAY ALSO APPLY.
- COORDINATION FOR POTENTIAL OUTAGE REQUESTS MUST BE MADE NO LESS THAN THREE (3) MONTHS IN ADVANCE WITH CPS ENERGY SYSTEM OPERATIONS. NO OUTAGES WILL BE CONSIDERED DURING PEAK SUMMER MONTHS (JUNE - SEPTEMBER).
- TRANSMISSION LINES MAY SAG AS LOW AS 21 FEET FROM THE GROUND. IN ADDITION, OSHA CONSTRUCTION REQUIREMENTS MUST BE FOLLOWED NEAR ENERGIZED TRANSMISSION LINES

CAUTION OVERHEAD UTILITIES

- EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". LIMIT WORKING HEIGHT PER CPS ENERGY RESTRICTIONS. COORDINATE ALL WORK WITH CPS ENERGY.
- FEDERAL LAW STIPULATES IF WORKING INSIDE A 20 FT. CLEARANCE ZONE FROM HIGH-VOLTAGE OF THE ENERGIZED LINES AFFECTED, A SPECIFIC WORK PLAN MUST BE DEVELOPED BY THE OPERATOR TO ENSURE MINIMUM CLEARANCE REQUIREMENTS (REFER TO TABLE A BELOW)

TABLE A

UP TO 50kV - 10 FT.
OVER 50kV TO 200kV - 15 FT.
OVER 200kV TO 350kV - 20 FT.
OVER 350kV TO 500kV - 25 FT.
OVER 500kV TO 750kV - 30 FT.



TETRA TECH
www.tetra-tech.com
711 NAVARRO ST. SUITE 560
SAN ANTONIO, TEXAS 78205
PH: 210.299.7900 FAX: 210.226.8487

ADDENDUM NO. 1

 James R. Kypros
6/29/2003

SAN ANTONIO WATER SYSTEM

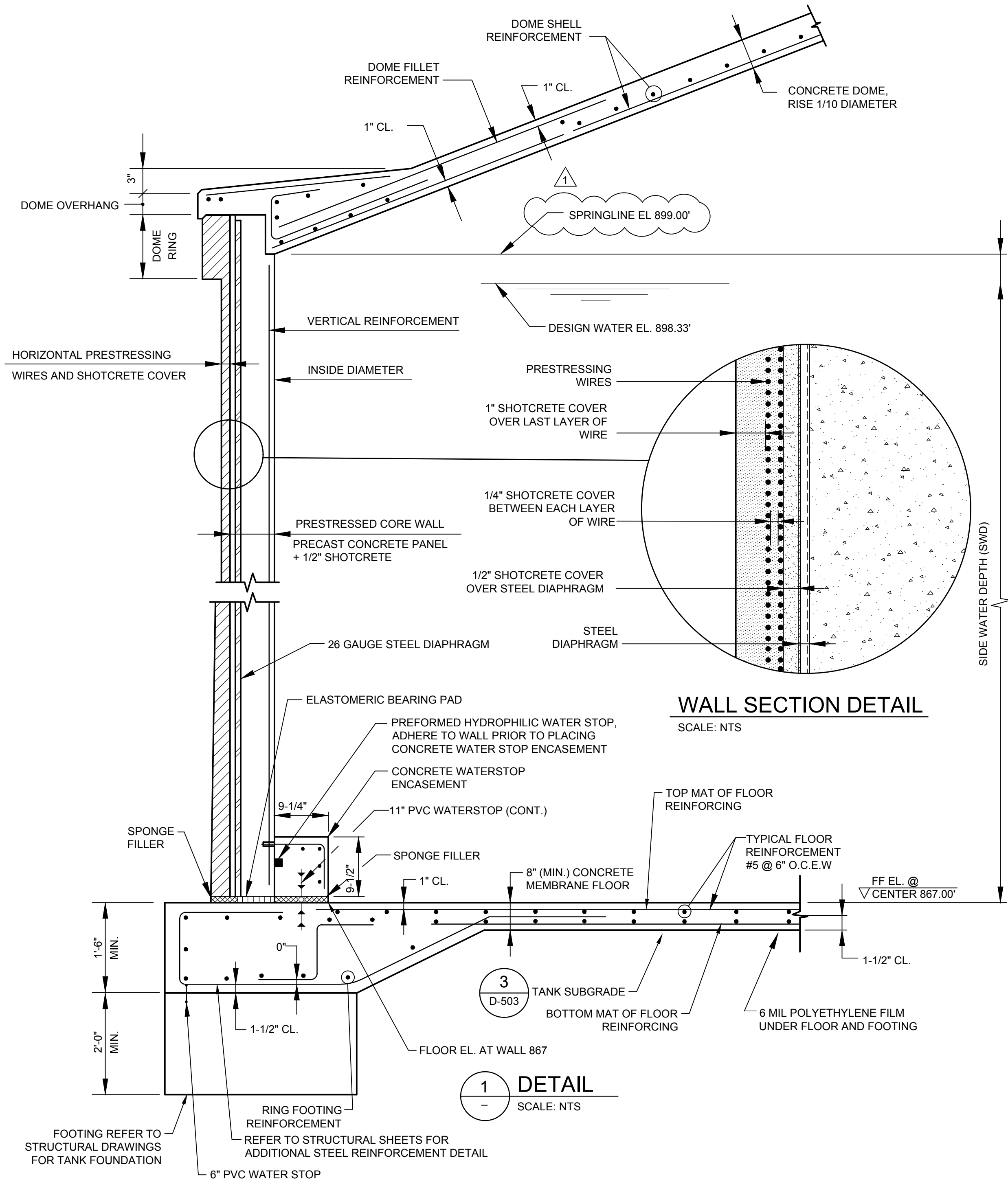
MARK	DATE	DESCRIPTION
1	6/21/23	ADDENDUM NO. 2

SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES AND TANK REPLACEMENT PROJECT
GENERAL NOTES

PROJ:	200-09308-20001
DESN:	SA
DRWN:	SG
CHKD:	MB

G-002

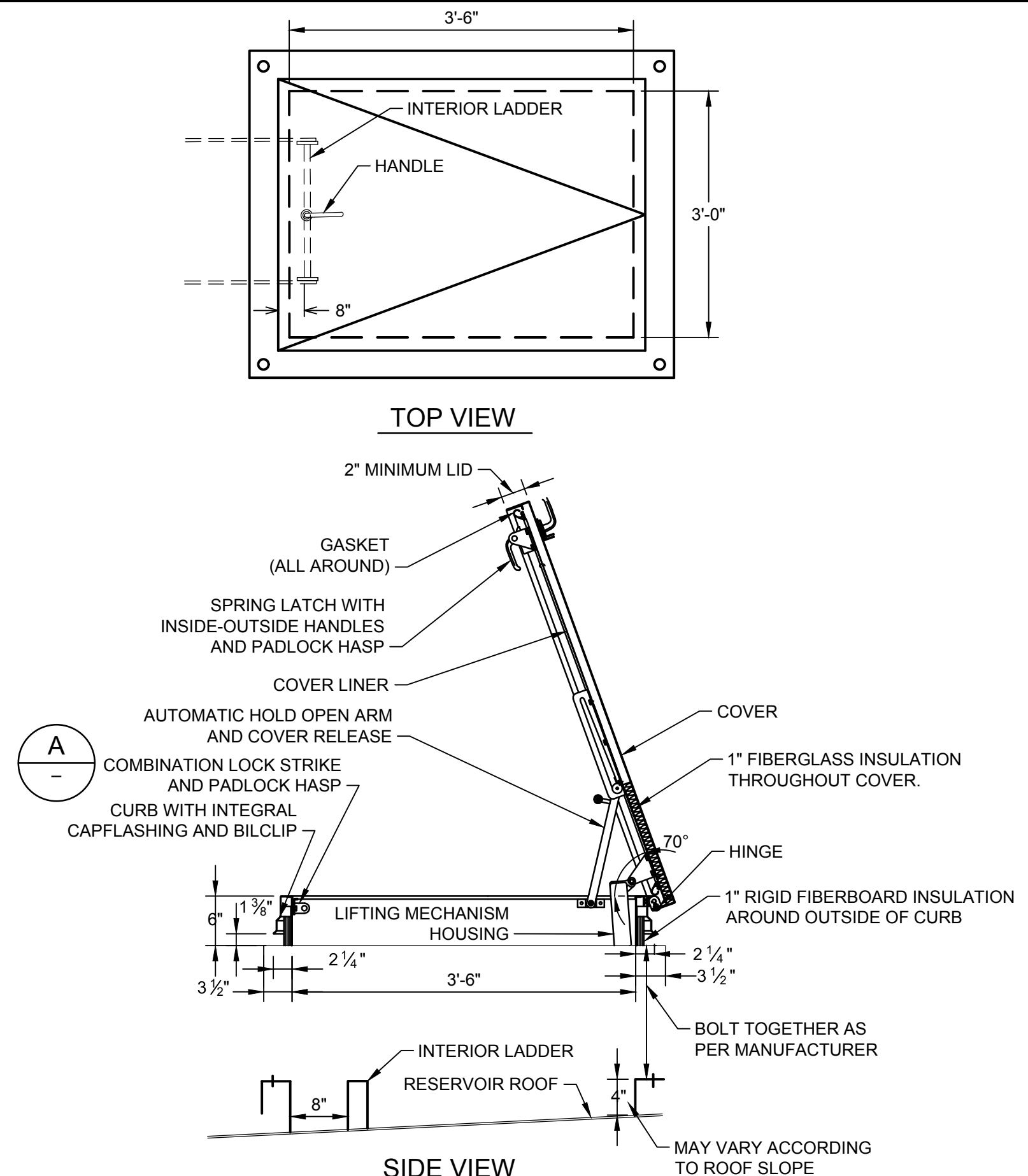
GROUND STORAGE TANK



1
-
SCALE: NTS

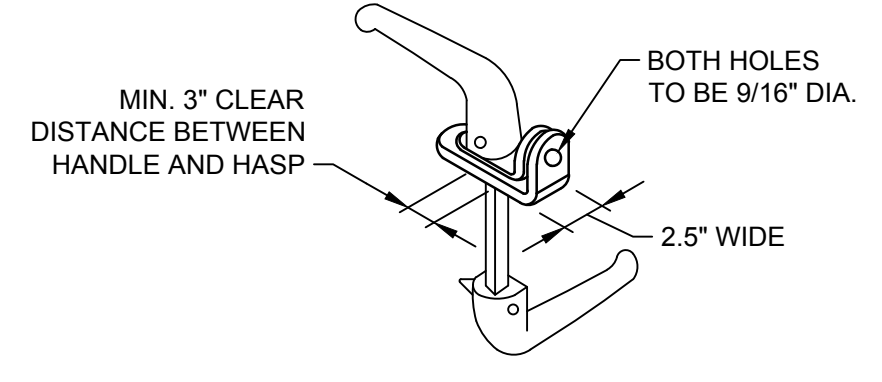
3
D-503

ACCESS HATCH DETAIL (3'-0" X 3'-6" OPENING)



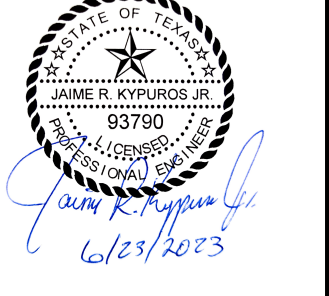
2
-
SCALE: NTS

- NOTES:
- HALLIDAY F1R SERIES.
 - ALL HARDWARE FOR HATCHES SHALL BE STAINLESS STEEL.
 - ALL ALUMINUM SHALL BE ISOLATED FROM CONCRETE BY A NEOPRENE GASKET.
 - COVER HATCH WITH POLYETHYLENE FOR PROTECTION DURING CONSTRUCTION.
 - INCLUDE FALL PROTECTION GRATING.



A
-
SCALE: NTS

ADDENDUM NO. 1



MARK	DATE	DESCRIPTION
1	6/21/23	ADDENDUM NO. 2

SAN ANTONIO WATER SYSTEM
BITTERS PUMP STATION UPGRADES
AND TANK REPLACEMENT PROJECT
**STANDARD
PROCESS DETAILS V**

PROJ:	200-09308-20001
DESN:	SA
DRWN:	SG
CHKD:	FR

D-505