



W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DRIVE SEWER MAIN PROJECT
Solicitation Number: CO-00317
Job No.: 19-4519

ADDENDUM 6
April 9, 2020

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 price proposal.

RESPONSES TO QUESTIONS

- Q1:** SC14. Fiberglass Reinforced Pipe states, “A. The Contractor shall execute a Purchase Order, per HOBAS PIPE USA Quote No. Q18-647-R-6, dated February 20, 2020, with the pipe manufacturer prior to SAWS’s issuance of the Notice to Proceed (NTP). Materials-on-hand will be paid at the agreed upon unit priced included in the Purchase Order. Reference SP857 for additional details.” We understand that proposers will not be given the Hobas purchase order until after Notice of Award. It is important that proposers are aware of the specific terms and conditions of this agreement during the estimating phase of this procurement. As a minimum, bidders will need the payment, delivery, storage and retainage terms. Please advise.
- Response:** Contractor may contact Hobas directly for this information. Specifically, contact Victor Rivera at (281) 821-2200, or vrivera@hobaspipe.com.
- Q2:** Addendum 4, Question 10 references a “Required Document Matrix” posted on SAWS website to assist in determining proposal page counts. Please advise when this will be posted?
- Response:** The requested document was posted on SAWS Website on Friday, March 27th, as part of Addendum No. 5.
- Q3:** Bid items 107, 108, and 109 reference Intermediate Demobilization. Is there a pre-planned time and duration that SAWS is projecting for a demobilization of the bypass equipment? Or is this a cautionary provision in the event that an unforeseen mobilization is needed? If it is pre-planned what is the time and duration?
- Response:** No, there is not a pre-planned demobilization of bypass equipment. This item is a precautionary item, in the event that an unforeseen demobilization might be required. See SAWS – General Conditions, Section 4.8 for additional details regarding suspension of work by owner for extended periods, beyond ten (10) days.
- Q4:** Sheet G40 references the suction point of the 8IN sewer bypass (on Merry Oaks Dr) as MH 940344. On SAWS Blockmap 126558, the specified suction point is labeled as MH80255 with a different MH grade and invert elevation. Please clarify what the correct data is for that suction manhole.
- Response:** MH 80255 is the adjacent manhole which is within Merry Oaks. The proposed suction manhole, MH 940344, is correctly labeled on the plans.

- Q5:** Sheet G41 references a 31.5 FT suction lift for the bypass. This suction lift exceeds the pump priming capability of standard diesel pumps. As a result, either, the suction point will need to be surcharged or an alternative pump type (hydraulic or electric) will need to be considered. Will SAWS allow for an alternative pump type or surcharge of this manhole?
- Response:** *Yes. The intent is to capture leakage anticipated at stop logs. The flows to be captured are anticipated to be minimal, and as such, alternate pump type or collection method could be considered in accordance with SAWS SS 864-S1.*
- Q6:** Will Road Ramps be allowed in lieu of cutting existing roadways and driveways? Likewise, will it be possible to run hosing through existing storm drains for road crossing?
- Response:** *The use of road ramps or installing bypass piping through culverts will need to be approved by the CoSA or TxDOT inspector. For bidding purposes, the Contractor shall assume that neither will be allowed.*
- Q7:** The scope of Bid Item 115 is for the “Intermediate Demobilization/Remobilization (Open Cut). SP 100A states that this is for “all associated work with all construction except TBM Tunneling”. Is BI 115 for a shutdown of the entire project (except for TBM tunneling)? What shutdown duration should bidders assume? Perhaps bid item 115 should be an allowance item. Please clarify.
- Response:** *Yes, the intermediate demobilization could be used for a shutdown of all construction activities, except tunneling. See SAWS - General Conditions, Section 4.8 for additional details regarding suspension of work by owner, for extended periods, beyond ten (10) days.*
- Q8:** Addendum #4 revised sheet no. G6, Overall Quantities, but did not include a revised Price Proposal. Please issue a revised General Price Proposal Items form corresponding to the revised quantities shown on G6.
- Response:** *A revised Price Proposal has been provided in association with this addendum. Reference Changes to Specifications, Item 8.*
- Q9:** For instrumentation, can an automated total station system be installed? In order to do so, can GMPs and UMPs be raised about 5 ft above the ground surface in order to be visible to an automated total station? A monitoring survey prism would be attached near the top of the GMPs and UMPs.
- Response:** *Yes, this is an acceptable equivalent if the risers are rigid, visibly marked to avoid damage, and will not deflect.*
- Q10:** For instrumentation, where will the tiltmeters and vibrating wire piezometers be installed? Locations are not shown on the instrumentation plans nor listed on the monitoring schedule table. Will the vibrating wire piezometers be installed within the existing observation wells?
- Response:** *Tiltmeters are not currently required. If during the inspection of the DoD structures, it is determined that these may be necessary, the details are included on Sheet TU-14. Tiltmeters that are required, shall be included in the Contractor's lump sum price for Geotechnical Instrumentation and Monitoring.*
- Vibrating wire piezometers or observation wells (replaced in kind with existing) where the shafts conflict the existing observation wells at the Water Tower Shaft and the Ballpark Shaft are required. Selection of either an observation well or VWP is up to the contractor.*
- Q11:** For pre and post-construction surveys, concerning bridge inspections will experience inspecting bridges for other state DOTs and professional engineering licensure in a different state be considered an approved equal for TxDOT?
- Response:** *Professional Engineer should be licensed in the State of Texas. However, experience inspecting for other DOTs is acceptable to meet the 5-year requirement.*

- Q12:** Pre and post construction surveys are not listed in the TxDOT Bridge Inspection Manual therefore it is assumed that the bridge inspections will be visual inspections following the guidelines set forth in Section 2.01.E of the specification. Please confirm.
- Response:** *Yes, these are visual inspections as detailed in Section 01510.*
- Q13:** Where are the TPH soils, listed on the bid sheet, located?
- Response:** *The TPH soil quantity is an estimate, derived from information included in the Geotechnical Baseline Report.*
- Q14:** Who needs to sample and prepare the landfill profiles?
- Response:** *The Contractor is responsible for the documentation/testing requirements set out by the landfill selected for soil disposal. This requirement is included in SS 02086 - Excavation, Classification, Transportation, and Disposal of TPH Affected Soil.*
- Q15:** How do you know the soils are only impacted by TPH?
- Response:** *The environmental testing performed for this project has not identified potential for other soil impacts. Information regarding TPH can be found in the project Geotechnical Data Report (GDR), pages 51-52.*
- Q16:** Bid Item 105 is a lump sum. Can you please specify where the slide gates are located on the project or if structure at shaft #6 is the only location that contains slide gates.
- Response:** *Shaft #6 is the only location that contains slide gates. There are two slide gates at this location, reference sheet C86B for more detail.*
- Q17:** General - For joint venture teams, please clarify which proposal forms/requirements need to be completed once on behalf of the Joint Venture and which need to be completed independently by each Joint Venture Partner. For example, I assume you want a single Proposal Checklist on behalf of the team, but may want each partner to complete a Conflict of Interest Questionnaire. Please consider providing a matrix of each proposal item identifying whether it's to be provided for the JV team or for each JV partner. General - For joint venture teams, please clarify which proposal forms/requirements need to be completed once on behalf of the Joint Venture and which need to be completed independently by each Joint Venture Partner. For example, I assume you want a single Proposal Checklist on behalf of the team, but may want each partner to complete a Conflict of Interest Questionnaire. Please consider providing a matrix of each proposal item identifying whether it's to be provided for the JV team or for each JV partner.
- Response:** *Response to be provided at a later date.*
- Q18:** General Conditions 5.3.1 states, "All test reports and shop drawings shall be signed and sealed by a Texas Registered Professional Engineer and submitted to the SAWS COL."
- Question: Please clarify on this requirement? Does this mean shotcrete, water, geotechnical, air quality, gas detectors, etc... reports require a Texas Registered Professional Engineer to sign and seal these reports?
- Response:** *Engineered plans, specifications, plats, or reports must be sealed by a Texas PE in accordance with the Texas Engineering and Land surveying Practice Acts and Rules. Air quality daily logs and other daily logs that are not considered engineered work do not need to be sealed. For additional questions or clarifications regarding seal requirements visit the Texas Board or Professional Engineers and Land Surveyors website at: <http://engineers.texas.gov/>. In general the contract documents and specifications specifically state when a PE is required.*

Q19: Supplemental Conditions – Intermediate Milestones

Question: Are there any incentives, or penalties for intermediate milestones?

Response: *There are no stipulated incentives or penalties associated with intermediate milestones. Schedule is of critical importance on this project, and these milestones are intended to assist SAWS in determining whether or not contractor will be in compliance with baseline schedule.*

Q20: Special Specification 01510 Part 1.05A states, “Qualifications General: Employ independent Professional Engineer(s) with at least 3 years of experience in performing condition surveys”.

Question: Can the inspections be led under the direction of Professional Engineer with 3 years of experience performing condition surveys?

Response: *Specification 01510.1.05.A describes qualifications required for resource to perform inspection/survey of building structures and associated improvements and appurtenances. Specification 01510.1.05.B describes qualifications required for resource to perform structural inspections for TxDOT/critical bridge structures, including 5 years experience inspecting accordance with the TxDOT Bridge Inspection Manual. Please abide by the qualification requirements outlined in section 01510. Reference Changes to Specifications Item 10 in this addendum.*

Q21: Special Specification 01510 Part 1.06B states, “In addition to other structures adjacent to the project, the CONTRACTOR shall incorporate into the submittal detailed pre- and post-construction inspections of the Truemper Road bridge; the three (3) pedestrian bridges Berquist Drive, Luke Boulevard and Selfridge Avenue; the monument at the southeast corner of U.S. Highway 90 and S.W. Military Drive, and the TxDOT bridge at Old US Hwy 90.”

Question: Please clarify what is considered adjacent to the project? Properties that abut the project easement?

Response: *Refer to the list of structures in Section 2.01. These structures require inspection and are monitored in the instrumentation and monitoring plan.*

Q22: Special Specification 01510 Part 2.01A states, “Perform Pre and Post Construction Inspections (a.k.a. surveys) and develop Pre and Post Construction Reports for existing structures/facilities as shown on the Drawings.”

Question: Which drawing should be referenced for these structures/facilities? There are multiple of sets drawings that show many existing structures, and facilities.

Response: *Refer to the list of structures in Section 2.01. These structures require inspection and are monitored in the instrumentation and monitoring plan.*

Q23: Special Specification 01510 Part 2.04A states, “The CONTRACTOR shall re-inspect all facilities identified throughout the duration of the Project for Pre-Construction Inspections.”

Question: In order to save cost, can this be changed to "post inspection will be performed only in response to complaints or claims made by property owners."?

Response: *No. The intent is to measure pre-construction condition, compare to post construction condition, and demonstrate no change between the two conditions.*

Q24: Special Specification 01520 Part 3.03 C2 states to perform daily readings.

Question: Please clarify what is required for daily readings? Are daily readings consider Monday through Friday excluding holidays?

Response: *The intent is that construction will be on-going 24/7, seven days per week, including holidays. Daily readings should continue every day, Monday through Sunday, including holidays.*

- Q25:** Special Specification 01520 Part 3.03 C2 states, “Weekly monitoring until any movement above the background baseline measurements ceases, then monthly thereafter until project substantial completion.”
- Question: How many weekly readings of no movement above baseline measurements before transitioning to monthly readings?
- Response:** *Six (6) weekly readings of no movement will be sufficient, assuming that no further subsurface tunneling activity is still occurring in the area.*
- Q26:** Special Specification 02410 Part 1.08 B1 states, “CONTRACTOR’s surveying shall be performed by a Texas RPLS with a minimum of five years of experience.”
- Question: Can the tunnel survey be performed under the direction of a Texas RPLS?
- Response:** *Yes.*
- Q27:** Special Specification 02410, 02411, and 02412 references electrical equipment meeting OSHA 1926.407, Class 1 Division 2.
- Question: Please clarify why above ground equipment requires to be class 1, division 2.
- Response:** *These specifications are related to tunnel operations. Above ground equipment is not required to be Class 1 Div. 2.*
- Q28:** Special Specification 02421 1.06 C5 states, “Perform trial mix and production concrete testing in accordance with CoSA 300 – Concrete”
- Question: There is no production testing requirements listed in CoSA 300. Is there a testing frequency?
- Response:** *A set of 4 - 3-inch x 6-inch cylinders should be taken once per day, every 300 CY, or after a change in mix or additives.*
- Q29:** Special Specification 02422 1.06 Part D4 states, “Make a 30" x 30" x 4-inch thick test panel for each mix being considered in compliance with the applicable provisions of ASTM C 1140.”
- Question: May the shotcrete test panels be 24"x24"x4"? This is accepted by ASTM C 1140, and much more manageable to transport.
- Response:** *Yes. This is acceptable.*
- Q30:** Special Specification 02422 Part 1.06 D7 reference flexural strength of beams tested per ASTM C 78.
- Question: Can flexural strength of beams test requirement per ASTM C 78 be removed? We’re only aware of two laboratories in the USA that perform this test, and both are not local to Texas.
- Response:** *This requirement can be waived. The compressive strength testing of core specimens of the panels is sufficient to demonstrate adequate design strengths are met. Reference Changes to Specifications Item 11 in this addendum.*
- Q31:** Special Specification 02440 Part 1.08 B3 states, “Water-tight secant pile shafts will be required at the W-6 Middle Connection Shaft, the Solids Handling Shaft, and the W-1 Connection Shaft.”
- Question: Is there no minimum allowable gallon per minute water seepage?
- Response:** *Please refer to Section 02441 1.08 this indicates a requirement of 0.5 gpm or less.*

- Q32:** Special Specification 02441 Part 1.06 G5 states, “Perform trial mix and production concrete testing in accordance with CoSA 300 – Concrete.”
- Question: There is no production testing requirements listed in CoSA 300. Is there a testing frequency?
- Response:** *See response to Question 28.*
- Q33:** On page SS-9, Working Hours section states, “Hauling and deliveries to/from the Hotel Shaft site, shall not be allowed on Thursdays or Fridays”.
- Question: Please clarify if hauling and deliveries can take place before and after a certain time on Thursdays and Friday’s?
- Response:** *Hauling and deliveries from Hotel Shaft shall not be allowed on Thursdays and Fridays. Please note, that the entire 23-acre tract at the Hotel Shaft location, has been purchased by SAWS and is available for use by Contractor for storage. For more information, see Sheet G32A.*
- Q34:** Special Specification 02410 Part B8d states, “Diesel locomotives meet MSHA 30 CFR 36.”
- Question: OSHA 1926.800 standard shows that “Diesel Equipment shall comply with MSHA 30 CFR 57.5067 or MSHA 30 CFR 32”. Please confirm this OSHA standard is acceptable.
- Response:** *MSHA 30 CFR 57.5067 and MSHA 30 CFR 36 are compatible. MSHA 30 CFR 32 does not exist in the latest version.*
- Q35:** Special Specification 02600 Part 3.4A states, “Perform testing and inspections in accordance with City specifications.”
- Question: Which City specification does apply to? What testing requirements are required? Are there testing requirement during fabrication?
- Response:** *Q35 – Part 1: Reference Changes to Specifications Item 12 in this addendum.
Q35 – Part 2: Per item 3, below.
Q35 – Part 3: Field Tests: Manhole Leakage: Manhole shall be tested in accordance with SAWS 850.5.1 - Leakage Testing.*
- Q36:** Sheet S10. Dimension clarification.
- Question: There does not appear to be a minimum diameter required dimension for the base slabs beneath the Polymer Concrete Manholes. As the contractor is allowed to adjust shaft diameters to suit their means (Addendum 5 Q3 & Response) of construction, is there any minimum diameter required for the base slabs? Likewise, if the contractor elects to oversize a construction shaft, this minimum desired diameter question is relevant for bidding purposes.
- Response:** *Base slab shall be 25-ft (minimum) in diameter at all polymer concrete riser structures, reference Changes to Plans Items 7, 9, 11, 15, 16, and 17 in this addendum.*
- Q37:** Sheet S6, S11, S14, and S15. Design clarification.
- The concrete encasement profile from the polymer concrete riser structure to the shaft wall is shown as an octagon. This is shown on the isometric views of all the shafts except #6, and 7. Is this shape required?
- Response:** *The shape of concrete encasement is at contractor's option. Minimum thickness specified should be provided around the pipes.*

Q38: Sheet S16, S17, and S22. Dimension clarification.

Question: On Sheet S16 & S22 pipe encasement is 6'-0", but on Sheet S17 pipe encasement is 6'-10". Is the intent for the polymer concrete structure wall to be 5inches thick? Please confirm dimension. This is repeated on Water Tower Shaft details as well.

Response: *Encasement length shall be 6-ft from the exterior face of the riser. Thickness of the Polymer Concrete Riser shall be designed by the PC manufacturer.*

Q39: Sheet S32. Dimension clarification.

Please confirm the diameter of the Hotel Shaft foundation slab. Is it 25ft?

Response: *Yes.*

Q40: Please confirm the coordinates in the drawings are correct. When the tunnel alignment coordinates are converted to longitude, and latitude then plotted in Google Earth the alignment is offset a couple thousand feet.

Response: *The coordinates in the drawing are correct - please see Note 1 on sheets G15 - G21 for clarification regarding grid and surface coordinates used in this project.*

Q41: Special Specification 01520 Part 3.02I states, "Install vibrating wire tilt meters at the locations elevation as shown in the Contract Drawings"

Question: Where are tilt meter installation location elevations shown on the Contract Documents?

Response: *See response to Q10, this Addendum.*

Q42: Special Specification 01520 Part 3.02J states, "Install piezometers at the locations and with the VWP elevation as shown in the Contract Drawings."

Question: Where are vibrating wire piezometer installation locations shown on the Contract Documents?

Response: *See response to Q10, this Addendum.*

Q43: Special Specification 01520 Part 3.02K states, "Install crack gauges were determined from pre-construction survey as defined in Section SS 01510 – Pre and Post-Construction Inspections."

Question: Can the installation, and monitoring of crack gauges be included as a separate unit price since amount of crack gauges required is unknown?

Response: *Please make a reasonable estimate for what may be required for each structure that will cover these items and include price in Line Item 68 (Item No. 01520).*

Q44: Can the deadline for questions be extended since the project bid due date was moved back 3 weeks but the last day to ask questions was only moved back 1.5 weeks?

Response: *No, the schedule will remain as described in the RFCSP document in Addendum 5. However, reference Changes to the Specifications Item 2 in this addendum which does allow for non-technical questions to assist in Respondent proposal preparation.*

Q45: Sheet G43 and C76. Elevation clarification.

Question: Drawing G43 indicates the 48" discharge from MH 542143 to have an elevation of 674.78'. Drawing C76 upstream of that manhole indicates this project will connect to the system at an elevation of 668.70. Please confirm elevations, almost 6' below the downstream manhole connection.

Response: *The invert elevation on sheet C76 is correct. The invert elevation on sheet G43 has been updated and is included in this addendum.*

Q46: Special Provision 862

Question: States sanitary sewer manhole shall be filled to the top of the remaining concrete structure with the same material used to abandon the sanitary sewer main. Please provide top, and invert elevations of structures to be abandoned on Sheet G34 though G37

Response: *The depth of manholes to be abandoned has been added to sheets G34-G37, and the revised sheets have been added to this addendum. Please note that the depths provided were taken from SAWS block maps, and are approximate.*

Q47: Sheet G37 Note 5 states, "Excavation locations for installing grout have been coordinated with Lackland Air Force Base"

Question: Can those locations be shared?

Response: *JBSA had no issues with contractor access for grouting, and also had no issues with installation of mid-reach grout points between manholes. The exact locations of mid-reach grout points shall be coordinated with JBSA during construction.*

Q48: Special Specification 01510 and 01520

Question: Has SAWS received facility/property owner's permission to install the geotechnical instrumentation? Special Specification 01510 Park 2.01 D states, "OWNER will obtain permission to perform Pre- and Post-Construction Inspections from the facility/property owner". If permission hasn't been received will SAWS request permission?

Response: *Related to SS 01510, SAWS does have permission to install instrumentation on Structures 4-9, listed in paragraph 2.01A. These structures are owned by TxDOT or the U.S. Department of Defense. SAWS does not currently have permission to install instrumentation on Structures 1-3, which are owned by private landowners. Contractor is responsible for securing Right-of-Entry to perform this survey work.*

Q49: Evaluation Criteria Form 2.b.i., page ECF-11.

Question: Are you looking for two projects per Key Subcontractor, and therefore you wish us to duplicate the Key Subcontractor Performance Project #1 and #2 forms for additional subcontractors? Or are you looking for two additional completed projects from the key subcontractor(s) to add to the three provided by the prime, bringing the total of completed project examples to five?

Response: *Only two (2) additional projects are required for Key Subcontractors, bring the total completed projects to five (5) between the Prime Contractor and their Subcontractors.*

Q50: Evaluation Criteria Form

Question: In filling out the Evaluation Criteria Form, may we expand the space provided in order to fully answer the questions, as long as we stay within the page limits? May we change the font and add graphic elements to better communicate our intent, as long as we do not alter the wording or order of the questions?

Response: *Respondents may expand the space provided, change the font, and include graphics as needed to convey information.*

Q51: General Conditions Section 4.8.5

Section 4.8.5 States, “ Contractor shall not be entitled to any adjustment of the Contract Sum or extension of the Contract Time relating to any suspension of the Work by the Owner or the SAWS COI for environmental reasons under this Article 4.8.5., and the Owner shall have no other liability of any kind to the Contractor with respect to any suspension of the Work for environmental reasons under this Article 4.8.5.” The Section also states, “The Contractor agrees to (a) give notice to the owner immediately upon Contractor's acquiring knowledge of the existence of any Waste or other environmental condition on the site with a full description thereof, (b) promptly comply with any Laws applicable to the Contractor or the site requiring the removal, treatment or disposal of such Waste or proper treatment of the environmental condition as required by Law and provide Owner with satisfactory evidence with such compliance and (c) provide Owner within thirty (30) days after demand by Owner with a bond, letter of credit or similar financial assurance evidencing to the Owner's satisfaction that adequate funds are available to pay the costs of removing, treating and disposing of such Waste or proper treatment of the environmental condition as required by Law.”

Question: The above language places a disproportionate amount of schedule and financial risk on the contractor in the event hazardous material is encountered on the project. Will SAWS consider modifying this section to all the contractor to be compensated for delay cost associated with encountered hazardous material? This section also obligates the Contractor to pay for and remediate the hazardous material. Please consider revising this language as a Tunneling Contractor will be unable to financially quantify this risk and will be unable to acquire the proper insurance and bonding to carry this risk.

Response: *Response to be provided at a later date.*

Q52: It was stated in the pre-bid meeting the design for the temporary tunnel support in the majority of the tunnel was assumed to be steel ribs and timber lagging. Our initial analysis of the loading conditions of 5ksf and 10ksf (presented in the GBR) require a significant increase in steel rib size and timber thicknesses than typically seen in rib and lagging construction. Please provide/confirm any preliminary designs for both (ribs/lagging and precast segments) initial support systems.

Response: *Tunnel support proposed by Contractor shall be designed by Contractor's registered Structural PE. Refer to SS 02410 - Paragraph 1.07B*

Q53: Please provide the strength required for grouting (tail void grout) of the segment annulus. The Specification also defines Tail Void Grouting as Granular Cement Based, please consider the use of typical Non Granular Cement Based Two Component grout for Tail Void Grouting.

Response: *Tail void grout shall have a minimum compressive strength of 500 psi (same as contact grout in Section 02432) to match existing ground conditions. Non-granular cement based two component grout will be acceptable if it meets similar or better performance requirements.*

Q54: The specification states the rate of correction to line and grade but does not specify the maximum drive tolerance off of line and grade for TBM excavation, please provide.

Response: *See Changes to Specifications Item 13 in this addendum for revision to SS 02410 – General Tunneling Requirements.*

Q55: The maximum drying shrinkage limit of the annular cell grout is not defined in the specifications, please provide.

Response: *Typically this type of grout does not have high shrinkage. You may set a 0.5% target for design. Secondary contact grouting is specified if limited shrinkage is observed during construction.*

Q56: Please confirm that untreated hardwood timber can be used for blocking of the HOBAS pipe in the annular space and remain in place. In addition, if timber can be used for blocking can timber ties for rail remain in place.

Response: *Untreated hardwood timber may be used for blocking. If blocking or timber ties can be removed this is preferred, but not required.*

- Q57:** Please expand the time frame from five (5) years to ten (10) years for the most recently completed projects that required two (2) pass lining via TBM with 54-inch carrier pipe or larger
- Response:** *Respondents shall provide the information as shown in the SIR, Section E.2.a.iii.*
- Q58:** With the fluid environment we all find ourselves in, is SAWS willing to extend the RFI deadline three weeks as this is our only avenue of communication with the Owner?
- Response:** *No, the schedule will remain as described in the RFCSP document in Addendum 5.*
- Q59:** As it currently stands, we are uncertain how we will deliver this bid due to mandatory quarantines upon exit and entering of several states. Does SAWS intend to adjust their bid delivery options to allow Contractors to submit RFCSP packages via online delivery. We recommend utilizing a secure file sharing service to upload the large amount of data.
- Response:** *Reference Changes to Specifications Items 1-5 in this addendum, which permit an electronic submittal option.*
- Q60:** In SS 02431 Annular Backfill for Carrier Pipe, Equipment A, the specifications state no trucking of concrete backfill is allowed. Could the Owner/Contractor/Engineer expand on the definition of trucking. Does this extend to any type of transport within the carrier pipe which is not pumping?
- Response:** *Trucking shall mean from an off site batch plant to the project location. The cellular grout shall be batched on site. Limited on site transportation may be acceptable, with Engineer's approval, if the performance requirements are being met.*
- Q61:** In SS 02416, Section 2.5A, it states "Remove all sheeting, shoring and bracing at the completion of work unless otherwise approved in writing by the OWNER's REPRESENTATIVE." Industry practice is to typically remove the top 4'-6' of shoring. Depending on the type of shoring used (such as sheet piles), it can be extremely difficult to remove, especially if the bottom of the pit contains a poured concrete working slab. Secant piles will not be removed due to concerns of structural integrity and safety. Would SAWS consider accepting the removal of only the top 4'-6'?
- Response:** *Removal depth of sheeting/shoring, might be consider, depending on the shoring and the location. For bidding purposes, Contractor shall bid according to Contract Documents.*
- Q62:** If SAWS changes the submission instructions to accept Proposals electronically, there will need to be a specific and secure email account to which private companies can email their confidential financial statements. If a specific and secure email account can not be made available, will SAWS accept summarized financial statements at the time of proposal due date? Full financial disclosure can be made by respondents selected by SAWS after the proposal due date.
- Response:** *See Changes to Specifications Item 7 which provides Respondents with information needed to obtain a specific and secure account to upload their proposals, including financial statements.*
- Q63:** In Section 2. a. iii. of the Evaluation Criteria Form, respondents are asked to "...list all current and recently completed 2-pass tunnel, with 54-inch or larger carrier pipe installed via Tunnel Boring Machine (TBM), gravity pipeline projects performed in the last five (5) years." Please clarify: if respondents' reference projects in Section 2. a. i. meet the criteria described in Section 2. a. iii., should they be repeated?
- Response:** *No, Respondents do not need to repeat projects listed in SIR, Section E.2.a.i again in SIR, Section E.2.a.iii.*
- Q64:** As of Addendum #5, Line Items 105, 106, and 107 covered the Intermediate Demobilization Bypass Equipment Rental, Fuel, and Pumping Watch, respectively. We request clarification of the following:
- Q64a:** Please confirm our understanding that these items are to cover the costs of continuing to bypass flows during an intermediate demobilization.
- Response:** *Yes.*

- Q64b:** The Unit of Measure on the Bid Form is MD, clarified in previous addenda to mean Man Days. However, Specification Section SP100A – 100.2 (2), (3), and (4) states that measurement shall be by the Day. It does not appear reasonable to measure fuel and equipment rental by the Man Day. Please clarify.
- Response:** *The payment unit Man Day (MD), is per 24-hour day.*
- Q64c:** If a bypass system has two attendants, as required under Specification 864-S1 - 864.5.1 for certain circumstances, is the payment for Item 107 made at two times the unit price listed?
- Response:** *The payment unit Man Day (MD), is per 24-hour day, and does not account for the number of personnel.*
- Q64d:** All three measurement sections, 100.2 (2), (3), and (4), state that “For multi-bypass pumping setups at any given Project Site, payment shall be proportional to the overall amount established bid line item.” Is the line item amount intended to be the total daily operating cost of all bypass systems planned for the project? Given that some bypass systems on this project are extremely more expensive to operate on a daily basis, how is such a proration to be made?
- Response:** *Yes, include operating cost of all bypass systems planned for this project in the subject line item. Line item proportioning may be established with the Contractor and SAWS Construction Staff early on during construction.*
- Q65:** A quality management plan is required in accordance with item 3.a.v. The Required Document Matrix posted on March 27th, 2020 indicates that this item is included in the overall page limit of 40 pages. Quality management plans are typically over 40 pages long and therefore must be excluded from the 40-page limit if that is what is required to be submitted. Please specify if you want a description of our Quality Management Plan or if you want the whole plan.
- Response:** *A description of the Respondent's Quality Management Plan, that demonstrates that the Respondent has full understanding of, and is qualified/prepared to plan and achieve, all elements of Quality Control required within the Contract Documents. This would include, but not be limited to: submittals/submittal process, Contractor quality control testing, inspection and observation requirements (TIO), 3-phase inspection process, non-compliance response/tracking and documentation requirements.*
- Q66:** Section SS 02421, 1.01.A states "Also included are the repair of segment defects and the filling of grout holes and lifting holes." No further mention of filling grout holes and lifting holes are mentioned in the section. Please clarify the Owner's intent and if the grout holes and lifting holes can be simply filled in by the annulus grout between the Hobas pipe and Precast segment initial support.
- Response:** *Defects and voids should be filled if they affect the structural or performance of the initial support. Otherwise this is acceptable.*
- Q67:** Given the unprecedented nature of the events taking place in the World, would SAWS consider including an escalation clause in the Contract? We understand that this is not typical language to include in contracts, but there is a lot of uncertainty as to what the US economy will look like in 6 months, or even a year from now, which could affect our supply chains. This would elevate the Contractor from having to include unnecessary risk and contingency cost in their bids.
- Response:** *Response to be provided at a later date.*
- Q68:** On the Sheets G30-G33, Note 5 references sheet C85A Detail 1 for the proposed temporary fencing. This detail shows a 6 foot tall mobile fence panel. Is this type of unsecured fencing required at all sites, or is the Contractor able to install a temporary fence that is secured into the ground with posts? We typically require a taller, more secure fencing at job sites for safety purposes.
- Response:** *The fencing depicted on G30-33, and detailed on C85A, is intended as a minimum for establishing security and/or access control for contractor staging only. Contractor may install more secure fencing, if desired. Fencing installed on the perimeter of temporary construction easement areas will need to be removed at the completion of construction.*

Q69: In addition to the Floodplain Development Permit supplied in AD-4, could the remaining Owner-acquired permits listed in Supplemental Conditions paragraph 5.3.7 be provided to Respondents? Additionally, for ROW locations along Hwy 90 and SW Military Drive, are COSA ROW permits necessary in addition to the TxDOT permits listed in 5.3.7, or are these just for COSA streets and sidewalks (i.e., Merry Oaks Dr)? Specifically for lane closures depicted in the Traffic Control plan sheets.

Response: *Owner -acquired permits will be provided to the selected contractor. CoSA ROW permit will be required in areas outside of TxDOT ROW, such as Merry Oaks Dr, and such permits are the responsibility of the Contractor. Traffic Control on SW Military Drive and Hwy 90 are under the purview of TxDOT. The traffic control concepts included in the construction documents were coordinated via the TxDOT driveway permit process. These are to be used for Contractor guidance, however Contractor will ultimately be required to satisfy TxDOT regarding traffic control employed.*

Q70: The response to Question 7 in AD-4 states that the W-1 Leon Creek: Hwy 151 to Hwy 90 - Lower Segment Project is estimated to be completed by 5/18/2021. It also states that access to the overlapping construction area on Sheet G32 is not available until that construction is complete. Sheet G32 does not clarify which areas are overlapping, only that the W-1 Contractor will be occupying part of the allowable work area at this site. Is the entire Shaft #6 and #7 site as shown on G32 unavailable to start work until 5/18/2021?

Response: *See revised Sheet G32 in this addendum, revised to clarify easements in use for W-1, that are not to be used for W-6 until after 5/18/21.*

Q71: Addendum No. 1 mentions that Sheet S14 was revised and replaced, however no revised sheet was included in the addendum. Please provide revised Sheet S14.

Response: *Sheet S14 was revised per Addendum No. 1 and is attached to this addendum.*

Q72: Addendum No.1, for Sheet S32, states "Revise shaft depth dimensions from "92-7 1/4" to the following: "92 - 9 3/4". There is no dimension on the drawing that is "92-7 1/4", please advise.

Response: *This sheet has been revised, and is attached to this Addendum.*

Q73: The answer to Question 49 in Addendum No. 4 states that "If the respondent is a Joint Venture, only the managing member should complete Section 1." This is in reference to the Evaluation Criteria Form on ECF-1. This section of the ECF is asking for key business, legal, and safety information about the Prime Contractor, which is a joint venture. Please confirm that the responses on Evaluation Criteria Form, 1.a.i-v and 1.c.i-iii are only to be answered by the Managing Partner of a Joint Venture respondent and not each partner of a Joint Venture respondent. It is atypical that this information is not required from all partners and we would like to verify that we are interpreting this response correctly.

Response: *Response to be provided at a later date.*

Q74: On page 13 of the pre-proposal meeting slides, Key Personnel are listed as PM, Project Superintendent, Open Cut Superintendent, Tunneling/Boring Superintendent, TBM Operator. This list does not match the Key Personnel listed in the Supplemental Instructions to Respondents. Please advise.

Response: *The information listed in the Supplemental Instructions to Respondents governs.*

Q75: As it relates to Questions and responses to Q43, Q44, Q45 in AD-4, Item No. 1 on RQ-1 states that "If this submittal includes Co-Respondents, provide the required information in this Item #1 for each Co-Respondent by copying and inserting an additional block(s) before Item #2." Co-Respondents are defined as "two or more entities proposing as a team or Joint Venture with each signing the Agreement, if Awarded." The answers SAWS provided in AD-4, "If the respondent is a Joint Venture, only the managing member should complete Section 1." conflicts with what is stated in Item 1 on RQ-1. Please clarify.

Response: *Response to be provided at a later date.*

Q76: In Q45 of AD-4, the SAWS response of “form shall not be modified in any way or the Respondent may be found non-responsive” conflicts with what is stated in the note in Section 1 on RQ-1 regarding inserting additional block(s) before Item #2. Please Clarify.

Response: *Response to be provided at a later date.*

Q77: In Section 1 on RQ-1, it states “(NOTE: Give exact legal name as it will appear on the Agreement, if awarded.)” When proposing as a Joint Venture, the name of the Respondent would therefore be the name of the Joint Venture. Are we to follow the instructions provided by the response to Q44 of AD-4, or the instructions on the Respondent Questionnaire?

Response: *Response to be provided at a later date.*

Q78: As the required Excess/Umbrella Liability (UL) requirement of \$2,000,000 seems low for a job of this magnitude, and could potentially not properly provide protection to SAWS or other third parties. We would request a defined minimum limit commensurate with the job. This will also put all bidders on more of an equal bidding basis. We suggest the following language, which is typical language seen in large tunneling projects:

“Commercial General Liability. \$50,000,000 combined single limit per occurrence, and for those policies with aggregate limits, a \$50,000,000 aggregate limit. A per project aggregate should apply to the General Liability policy. CG 00 01 current edition, or its substantive equivalent, including coverage for, but not limited to Premises/Ongoing Operations, Contractual Liability, Products and Completed Operations. Such limits may be satisfied with the use of a primary and excess liability policy (follow form or umbrella), which is at least as broad as the underlying policy. All policies shall include Completed Operations coverage that will respond for a period of 10 years or the Statute of Repose for the State of Texas.

For the excess liability or umbrella, the policy shall extend coverage to be excess of the Commercial Automobile Liability and Employer’s Liability portion of the Workers’ Compensation policy.”

Response: *Response to be provided at a later date.*

Q79: Is the Installation Floater requirement intended to be a Builders Risk policy? If so, what is the limit required? It is unclear what the Owner is asking for and what is available in the current insurance market. We suggest the limit of insurance based on a Probable Maximum Loss (PML) analysis, which is mutually agreed upon. Presently, the maximum the insurance market will support in terms of a limit for the tunneling works (including cut & cover) is \$100M. You might have encountered the MRE 101 wording (copy attached) that expressed the limit to be based on the cost incurred to date and increased by a stated factor (i.e., 150%, etc.). We find this calculation to be inadequate to fully reimburse due to a loss. Acknowledging the market limitations in tunneling works limits, the use of a Probable Maximum Loss analysis provides both the Owner and Contractor with the assurance that the limits are adequate and managing the capacity and ultimate premium cost. We suggest the following language, which is typical language seen in large tunneling projects. Please note we have stated the policy include the LEG 2 extension of coverage, as there is very limited capacity for tunneling projects where the Owner required LEG 3, and if made a requirement will create a situation where the Contractor will not be able to demonstrate compliance.

*“Builder’s Risk. The Contractor shall procure and maintain during the life of the Contract and until Substantial Completion, “All Risk” Builders Risk Insurance, with minimum limits of the contract value or as determined by a probable maximum loss analysis agreed to between Owner and Contractor. The Builder’s Risk shall include coverage for collapse, theft, off-site storage (if applicable), and property in transit. The coverage shall also include London Engineering Group (LEG) 2/06 or its equivalent coverage that response to resultant or ensuing loss. The policy shall be endorsed to cover the interests, as they may appear, of the (Name of Owner * others as required), Contractor and subcontractors of all tiers with (Name of Owner) and sub-contractors listed as an Insured. In the event of a loss to any or all of the work and/or materials therein and/or to be provided at any time prior to the final close-out of the Contract and acceptance of the project by the Owner, the Contractor shall promptly reconstruct, repair, replace or restore all work and/or materials so destroyed. Nothing herein provided for shall in any way excuse the Contractor or its surety from the obligation of furnishing all the required materials and completing the work in full compliance with the terms of the Contract. Contractor shall provide coverage*

for the Tunnel Boring Machine (TBM) under the Builder's Risk or separate coverage as agreed by the Owner. The coverage specific to the TBM shall provide coverage for the assembly and launching of the TBM and while operating. The deductible and/or self-insured retention of the builder's Risk policy shall not exceed \$1,000,000 for any individual peril or cause of loss. Any claim that imposes a deductible shall be for the sole account of the Contractor."

Response: Response to be provided at a later date.

Q80: In Texas, the Statute of Repose is 10 years post completion for any claims, demands or actions to third parties resulting in Bodily Injury or Property Damage (including economic loss). We recommend that the contract specifically state this requirement so all bidders are on an equal basis.

Response: Response to be provided at a later date.

CHANGES TO SPECIFICATIONS

1. REQUEST FOR COMPETITIVE SEALED PROPOSALS (ADDENDUM 5)- The last paragraph of the Request for Competitive Sealed Proposals is deleted in its entirety and replaced with the following:

“

Due to the COVID-19 emergency and to protect the health of the public, SAWS is implementing new procedures for the submission of proposals. Proposals will be received either Electronically or through Sealed envelopes, until 10:00 AM (CDT), Friday, May 1, 2020. Electronic proposals will be received via the secure SAWS FTP site. See the Electronic Proposal Opening Instructions attachment for additional information regarding the submission of an electronic proposal. Electronic proposals shall be accompanied by a bid bond in an amount not less than five percent of the total proposal price. (Or, if providing SAWS with a cashier's check or certified check in an amount not less than five percent of the total proposal price, SAWS will request this within 24 hours from any Respondent who did not submit a bid bond.) Proposals will then be publicly opened and read aloud by Contract Administration via WebEx.

Respondents will need to submit a request by **Thursday, April 30, 2020 by 4:00 PM CDT** to receive access to the File Transfer Protocol (FTP) site via email to florinda.gonzales@saws.org. Respondent's email requesting access to the FTP site shall provide the legal name of Respondent's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **Thursday, April 30, 2020 by 4:00 PM CDT.**”

2. REQUEST FOR COMPETITIVE SEALED PROPOSALS- Insert an additional paragraph after paragraph six that reads:

“

Questions regarding proposal packet preparation, electronic proposal submission, and or similar nature will be allowed until the proposal opening deadline and should be directed to the point of contact for this RFCSP, Florinda Gonzales via email to Florinda.Gonzales@saws.org. (This does not include technical questions.)”

3. PROPOSAL PACKET CHECKLIST. The Proposal Packet Checklist is hereby deleted in its entirety and replaced with the revised Proposal Packet Checklist attached to this Addendum. This revised version should be used by Respondents when submitting for this RFCSP.

4. INSTRUCTIONS TO RESPONDENTS. Sections 1(a-e), 2 a, and 4 of the Instructions to Respondents are hereby deleted and replaced with the following:

“

1. Proposals will be submitted in accordance with the following:
 - a. **Sixteen (16) proposals to include one (1) original proposal, clearly marked and signed in blue ink, one (1) USB or flash drive of the original proposal and fifteen (15) copies shall be personally/hand delivered to and received by Counter Services in the Customer Service office across from the Guard Station, San Antonio Water System, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 141, San Antonio, Texas 78212, until the time specified in the Request for Competitive Sealed Proposals (RFCSP).**

Or, three (3) separate files in pdf format, as indicated on the Respondent's Proposal Checklist, clearly titled, signed in blue ink uploaded to the FTP site provided by SAWS until the time specified in the RFCSP.

- b. If the sealed proposal(s) are submitted electronically to the FTP site or delivered by **any means other than personal/hand delivery**, then it is the Respondent's sole responsibility to ensure they are sent to the San Antonio Water System, 2800 U.S. Hwy 281 North, Customer Center Building - **Contract Administration, Suite 171**, San Antonio, Texas 78212, no later than the exact time specified in the RFCSP.
 - c. All sealed proposals errantly submitted or delivered to a location other than the exact location stated above will be returned unopened.
 - d. **Electronic proposals will be received by Contract Administration in the SAWS secured File Transfer Protocol (FTP) site**. All proposals will be received until the date and time specified in the Request for Competitive Sealed Proposals.
 - e. All electronic or sealed proposals received after the exact time set for the proposal opening in the Request for Competitive Sealed Proposals will be returned/ deleted and unopened.
 - f. The San Antonio Water System Contracting Office may, at its sole discretion, without waiver of rights or authority, in equity or at law, return or delete any unopened proposals not meeting the exact requirements as stated above.
2. Proposals will be opened in accordance with the following:
- a. Proposals will be opened **in a public WebEx meeting** and the names of the offerors and all prices stated on each price proposal will be read aloud by a Contract Administration representative. Instructions on how to participate in this public WebEx meeting can be found in the Electronic Proposal Opening Instructions.”

All other language in this section remains the same.

“

4. **Electronic** proposals must be submitted with the original price proposal form attached herein and shall be sealed in an envelope or submitted through the SAWS FTP site and shall be titled with the solicitation number, date and time of the proposal opening, and the name of the project.”
5. Supplementary Instructions to Respondents, Section F (1-7) shall be removed and replaced with the following:

“

F. FORMAT OF PROPOSALS

1. Proposals shall be prepared simply and economically, providing a straightforward, concise description of the Respondent's ability to meet the requirements of this RFCSP. Emphasis shall be (in no particular order) on the quality, completeness, clarity of content, responsiveness to the requirements, responsiveness to the evaluation criteria, and an understanding of SAWS needs.
2. Respondents shall utilize the fillable evaluation forms provided by SAWS to prepare the response to this RFCSP. The cover, cover letter (if any), table of contents, divider sheets, proposal checklist, financial statement, Good Faith Effort Plan, Price Proposal, and any other required documents will not count as printed pages.
3. **Proposals shall be submitted in three (3) pdf files if submitted electronically or three (3) separate envelopes (or box and envelopes). Respondents should reference the revised Respondent's Proposal Checklist to ensure all required items are included.**
4. Respondents shall carefully read the information contained in this RFCSP and submit a complete response to all requirements and questions as directed. Incomplete Proposals may be considered non-responsive and subject to rejection.

5. Proposals and any other information submitted by Respondents in response to this RFCSP shall become the property of SAWS.
6. Proposals shall be **prepared** on letter-size 8-1/2" x 11" paper and assembled with spiral-type bindings or staples. The business organizational chart and project schedule can be printed using tabloid-size 11" x 17" paper. **IF SUBMITTING HARD COPIES, DO NOT USE METAL-RING HARD COVER BINDERS.**
7. Respondents shall utilize the Respondent's Proposal Checklist provided in this RFCSP **and must provide page numbers for all pages of the proposal.**
8. Separate and identify each evaluation criteria response of this RFCSP by use of a divider sheet with an integral tab for ready reference in the order indicated within the Respondent's Proposal Checklist.
9. Respondents shall include one (1) copy of the complete proposal on a flashdrive or thumb drive in portable document format (.pdf) in addition to the required number of hard copies. The flashdrive or thumb drive shall contain the entire proposal package as submitted, excluding the financial statement, Good Faith Effort Plan, and Price Proposal, and should be enclosed in a paper envelope, clearly marked with the pertinent solicitation information."

All other language in the Supplementary Instructions to Respondents remains the same.

6. Remove the Acknowledgement Form in its entirety and replace with the revised version attached to this Addendum. This revised version should be used by Respondent's when submitting a proposal.
7. Insert the Electronic Proposal Opening Instructions attached to this Addendum after the Instructions to Respondents. Respondents who intend to submit a proposal electronically shall read and understand the requirements.
8. Remove and Replace the Price Proposal and Proposal Certification with the Price Proposal and Proposal Certification included in this Addendum. The revised documents should be used by Respondents submitting a proposal for this project.
 - o Replace quantity for line item 17 – 300 One Course Surface Treatment (TxDOT Spec) "970" with the following: "870"
 - o Replace quantity for line item 19 – 305 6002 Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (4" Depth) (TxDOT Spec) "1940" with the following: "870"
 - o Replace quantity for line item 20 – 340 Hot Mix Asphaltic Pavement – Type D (4-inch Compacted Depth) (TxDOT Spec) "970" with the following: "870"
 - o Remove item no. 37 "SWPP Storm Water Pollution Prevention Plan"
 - o Revise line item numbers "38 through 59" with the following: "37 through 58"
 - o Revise item no. 55 - "853A Extra Depth (>6') Fiberglass Manhole, Miter (4' Diameter)" with the following: "853A Extra Depth (>6') Fiberglass Manhole (4' Diameter)"
 - o Add Item no. 59 "857 30-inch FRP (ASTM D-3262) (SN72) Sanitary Sewer Line (4'-6' Depth)
 - o Replace item no. 111 "W-1 Cleaning and Maintenance" with the following: "01030 W-1 Cleaning and Maintenance".
 - o Remove Line No. 101, Item 866A "Existing Sewer Main Television Inspection (8-inch to 24-inch)"
 - o Remove Line No. 102, Item 866A "Existing Sewer Main Television Inspection (30-inch to 60-inch)"
 - o Change the Line No. for Line No. 103 with the following: "101"
 - o Change the Line No. for Line No. 104 with the following: "102"
 - o Change the Line No. for Line No. 105 with the following: "103"
 - o Change the Line No. for Line No. 106 with the following: "104"
 - o Change the Line No. for Line No. 107 with the following: "105"
 - o Change the Line No. for Line No. 108 with the following: "106"
 - o Change the Line No. for Line No. 109 with the following: "107"
 - o Change the Line No. for Line No. 110 with the following: "108"
 - o Change the Line No. for Line No. 111 with the following: "109"
 - o Change the Line No. for Line No. 112 with the following: "110"
 - o Change the Line No. for Line No. 113 with the following: "111"
 - o Change the Line No. for Line No. 114 with the following: "112"
 - o Change the Line No. for Line No. 115 with the following: "113"

- Change the Line No. for Line No. 116 with the following: “114”
- Change the Line No. for Line No. 117 with the following: “115”
- Change the Line No. for Line No. 118 with the following: “116”

9. Revise Special Conditions to add the following language, as follows:

Add the following Paragraph:

SC25. SITE VISITS AND TUNNEL TOURS

Contractor shall anticipate an average of one (1) site visit and tunnel tours a month by Owner identified personnel for educational and public outreach purposes. The productivity lost due to these visits and tours shall be considered subsidiary to the project and shall not be at any additional cost to the Owner. Contractor shall be prepared to provide assistance and Contractor-required equipment for coverage of personnel safety for these visits/tours as may be required to satisfy the Contractor’s safety program or requirements (e.g., self-rescuers, muck boots, hard hats, safety eye wear, etc.) in accordance with SS 01500 – Construction Facilities and Temporary Controls, sect 1.05.C.2.xiv & xv.

10. Revise Special Specification – SS 01510 Pre- and Post- Construction Inspections, as follows:

Replace Section 1.05A in its entirety to read as below:

“

- A. Qualifications General: Employ independent Professional Engineer(s) with at least 3 years of experience with performing condition surveys to perform the Pre and Post Construction surveys. Demonstrate experience with performing condition surveys of building structures (e.g. commercial, residential, etc.) and associated building improvements and appurtenances (e.g. sidewalks, parking lots, landscape features, etc.)”

11. Revise Special Specification – SS 02422 Shotcrete, as follows:

Remove Section 1.06.D.7 in its entirety.

12. Revise Special Specification – SS 02600 Polymer Concrete Construction, as follows:

Replace Section 3.4-A.1 in its entirety to read as below:

“

- 1. *Perform inspection, testing and acceptance in general accordance with SAWS Specification 850 - Sanitary Sewer Structures.*”

13. Revise Special Specification SS 02410 – General Tunneling Requirements, as follows:

Add the following:

“

1.08.C.7 – TBM excavation shall not deviate more than six (6) inches in any direction from tunnel centerline shown on plans, unless otherwise accepted by Engineer and Owner’s Representative”

CHANGES TO PLANS

1. Sheet G32 – Contractor Access and Staging Plan (Sheet 4 of 6) – Revise and replace sheet in its entirety
 - Add line around the W-1 project construction area.
 - Add callout, “W-1 LOWER SEGMENT PROPOSED CONSTRUCTION AREA, SEE NOTE 6”
2. Sheet G34 – Abandonment Plan (Sheet 1 of 4) – Revise and Replace sheet in its entirety.
 - Added approximate depth to manhole abandonment callouts
3. Sheet G35 – Abandonment Plan (Sheet 2 of 4) – Revise and Replace sheet in its entirety.
 - Added approximate depth to manhole abandonment callouts

4. Sheet G36 – Abandonment Plan (Sheet 3 of 4) – Revise and Replace sheet in its entirety.
 - Added approximate depth to manhole abandonment callouts
5. Sheet G37 – Abandonment Plan (Sheet 4 of 4) – Revise and Replace sheet in its entirety.
 - Added approximate depth to manhole abandonment callouts
6. Sheet G43 – Suggested Bypass Pumping Layout (Sheet 5 of 5) – Revise and Replace sheet in its entirety.
 - Updated invert elevation of MH 542143
7. Sheet S10 - SHAFT #2 (PEARSALL SHAFT) – LOWER LEVEL PLAN AT EL 612.77' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”
 - Delete dimension between edge of foundation slab and the inside face of temporary shaft that reads “~3'-10” “.
8. Sheet S14 – Shaft #2 (Pearsall Shaft) – Section II:
 - Section 1 – Add reinforcement callouts as shown on the revised drawings.
9. Sheet S16 - SHAFT #3 (MERRY OAKS SHAFT) – LOWER LEVEL PLAN AT EL 616.99' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”
10. Sheet S17 - SHAFT #3 (MERRY OAKS SHAFT) - UPPER LEVEL SLAB PLAN AT EL 629.16' - Revise and replace the sheet in its entirety.
 - Revise length of pipe encasement call out to read “6'-0” ” as shown on the revised sheet at two locations.
11. Sheet S23 - SHAFT #4 (WATER TOWER SHAFT) – LOWER LEVEL PLAN AT EL 622.25' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”
12. Sheet S29 - SHAFT #5 (HOTEL SHAFT) – LOWER LEVEL PLAN AT EL 632.25' - Revise the sheet as below.
 - Add dimension call out for the Shaft depth as shown.
13. Sheet S31 - SHAFT #5 (HOTEL SHAFT) - UPPER LEVEL SLAB PLAN AT EL 745.04', - Revise the sheet as below:
 - Revise Elevation callouts “EL 7747.33” to read “EL 747.33” at three locations
14. Sheet S32 - SHAFT #5 (HOTEL SHAFT) – SECTION I' - Revise and replace the sheet in its entirety.
 - Add dimension call out for the Shaft depth as shown.
15. Sheet S38 - SHAFT #6 (SOLIDS HANDLING SHAFT) – LOWER LEVEL PLAN AT EL 641.55' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”
16. Sheet S44 - SHAFT #7 (W-1 CONNECTION SHAFT) – LOWER LEVEL PLAN AT EL 641.55' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”
17. Sheet S51 - SHAFT #8 (BALL PARK SHAFT) – LOWER LEVEL PLAN AT EL 649.15' - Revise the sheet as below.
 - Add dimension call out for the diameter of the foundation slab that reads “25'-0” Dia (min)”

CLARIFICATIONS

1. To minimize travel and the need for Respondents to hand deliver proposals during the COVID19 Emergency, SAWS has provided the option to submit the proposals electronically. See the Electronic Proposal Opening Instructions attached to this Addendum.

2. The public Proposal Opening will be conducted on video via a WebEx meeting. See the Electronic Proposal Opening Instructions attached to this Addendum.
3. As described in SC19 – CPS Energy, SAWS has begun coordination with CPS Energy to help expedite Contractor in arranging for project power to shaft sites 1-5. CPS Energy has provided the following costs and power assumption information, for use by Contractors in preparing for potential project power installation costs.

Assumptions made for each site:

- Service voltage on customer’s side 2400/4160 V
- Load – 5,000 kVA (worst case scenario)
- Sites (6 – 9) not economically feasible for estimate.

Site 1 Estimate: Total = \$293,364
 Construction Cost Estimate = \$86,900
 (2) 2500KVA 4160v Transformers = \$89,439
 Contractor Design Time = \$1,000
 Electric SWPPP = \$2,025
 (2)Temp Transformer Slab: \$4,000
 System Improvement: \$110,000
 Additional Cost: Primary Wire Sleeving for visual aid only, not for protection = \$808 per 10’ per phase

Site 2 Estimate: Total = \$263,764
 Construction Cost Estimate = \$77,300
 (2) 2500KVA 4160v Transformers = \$89,439
 Contractor Design Time = \$1,000
 Electric SWPPP = \$2,025
 (2)Temp Transformer Slab: \$4,000
 System Improvement: \$90,000
 Additional Cost: Primary Wire Sleeving for visual aid only, not for protection = \$808 per 10’ per phase

Site 3 Estimate: Total = \$147,264
 Construction Cost Estimate \$50,800
 2) 2500KVA 4160v Transformers = \$89,439
 Contractor Design Time = \$1,000
 Electric SWPPP = \$2,025
 (2)Temp Transformer Slab: \$4,000
 System Improvement: N/A
 Additional Cost: Primary Wire Sleeving for visual aid only, not for protection = \$808 per 10’ per phase

Site 4 Estimate: Total = \$157,264
 Construction Cost Estimate = \$30,800
 (2) 2500KVA 4160v Transformers = \$89,439
 Contractor Design Time = \$1,000
 Electric SWPPP = \$2,025
 (2)Temp Transformer Slab: \$4,000
 System Improvement: \$30,000
 Additional Cost: Primary Wire Sleeving for visual aid only, not for protection = \$808 per 10’ per phase

Site 5 Estimate: Total: \$316,464
 Construction Cost Estimate: \$40,000
 (2) 2500KVA 4160v Transformers: \$89,439
 Contractor Design Time: \$1,000.00
 Electric SWPPP: \$2,025.00
 (2)Temp Transformer Slab: \$4,000
 System Upgrade: \$180,000
 * Additional Cost: Primary Wire Sleeving for visual aid only, not for protection = \$808 per 10’ per phase*

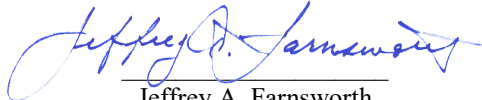
As mentioned previously, any delays in schedule associated with the supplying of power to these shaft locations will be incurred by the Contractor and will not be considered as project related delays. Shafts #1-5 will be coordinated with CPS by the Contractor to supply the necessary power.

END OF ADDENDUM 6

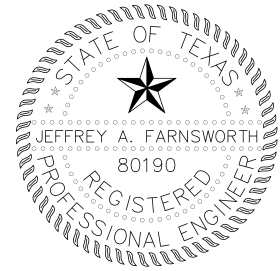
This Addendum is 36 pages in its entirety, including attachments.

Attachments:

- Electronic Proposal Opening Instructions
- Revised Proposal Packet Checklist
- Revised Acknowledgement Form
- Revised Price Proposal and Proposal Certification
- Plan Sheets (G32, G34, G35, G36, G37, G43, S14, S17, S32)



Jeffrey A. Farnsworth
Kimley-Horn and Associates, Inc.





W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY
DRIVE SEWER MAIN PROJECT
Solicitation Number: CO-00317

ELECTRONIC PROPOSAL OPENING INSTRUCTIONS
MAY 1, 2020 AT 10:00 AM (CDT)

FTP PROPOSAL UPLOAD

In order to receive **electronic proposals** for this RFCSP, SAWS will utilize a SAWS secured File Transfer Protocol (FTP) site. Only Respondents submitting as Prime Contractors will need to submit their request prior to **April 30, 2020 by 4:00 pm (CDT)** to receive access to the FTP site via email to florinda.gonzales@saws.org. Respondent's email shall provide the legal name of the Respondent's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **April 30, 2020 by 4:00 pm (CDT)**. Once a Respondent is approved for access, an email with a hyperlink to the FTP site and a unique password for the Respondent will be provided to the Respondent's email recipient.

Once access is received, Respondents may upload the required documents per the revised Respondent's Proposal Checklist any time before **May 1, 2020 at 10:00 AM (CDT)**. **Please ensure to allow sufficient time should Respondents experience technical difficulties in uploading the required documents. No changes to the proposal price can be made once the proposal has been submitted.**

Respondents shall comply with the following:

- 1) Limit files to three (3) pdf files that includes all items as indicated on the revised Respondent's Proposal Checklist. ONLY 3 SUBMITTALS PER RESPONDENT WILL BE ACCEPTED PER REQUEST. Do not upload zip files.
- 2) Ensure that the itemized General Price Proposal Items is the first page(s) of File 1.
- 3) Respondents may protect the documents from editing by adding a password. **However, the document must be accessible for viewing by SAWS without requiring a password.**
- 4) Files shall be titled as required on the Respondent's Proposal Checklist.
- 5) DO NOT SHARE ACCESS AND/OR PASSWORD WITH OTHER PARTIES OUTSIDE YOUR COMPANY.
- 6) ENSURE THE PROPOSAL IS SENT NO LATER THAN THE DUE DATE AND TIME. PROPOSALS SUBMITTED AFTER THE PROPOSAL OPENING DEADLINE WILL NOT BE ACCEPTED.

If Respondent is in need of help, they may contact the SAWS Interim Contract Administrator, **Florinda Gonzales**, at **210-233-3914** or view troubleshooting tips at <http://www.Serv-U.com/sharefiles>

WEBEX PROPOSAL OPENING MEETING

WebEx meeting details are below, if Respondent would like to view the public opening of the price proposals.

When it's time, start or join the WebEx meeting from [here](#).

Access Information

Meeting Number: **991 006 649**

Meeting Password: Co-00317

Audio Connection: 210-233-2550 (SAWS WebEx)

If Respondent has questions or concerns, please contact Florinda Gonzales.

Florinda Gonzales

Interim Contract Administrator

2800 U.S. Highway 281 North, Ste. 171 | San Antonio, TX 78212

Office | 210-233-3914

Email | florinda.gonzales@saws.org

RESPONDENT'S PROPOSAL CHECKLIST

(Rev. 4/9/20 – Addendum 6)

Project Name: **W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main**

SAWS Job No. **19-4519**

SAWS Solicitation Number: **CO-00317**

File/Envelope 1 Titled: PROPOSAL_CO00317_FIRM NAME

- General Price Proposal Items (latest version)**
- Signed Price Proposal Signature Page/Acknowledgement of Addendums**
- Signed Proposal Certification Page (PC-1)**
- Bid Bond***

***If proposal is submitted electronically without Bid Bond, SAWS will require check within 24 hours of bid opening**

- Cashier's Check or Certified Check

File/Envelope 2 Titled: ORIGINAL PROPOSAL_CO00317_FIRM NAME

- Proposal Checklist
- Statement on President's Executive Orders – Page IR-8
- Good Faith Effort Plan
- Conflict of Interest Questionnaire – Form CIQ (Rev. 11/30/2015)
- W-9
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- Financial Statement
- Acknowledgement Form
- Respondent Questionnaire
- Evaluation Criteria Form
 - Team Qualifications and Experience (with Resumes, Organizational Chart and Safety Information)
 - Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget
 - Project Approach, Schedule and Availability
- One (1) USB or flash drive (if hard copies are submitted)**

File/Box 3 Titled: COPY_CO00317_FIRM NAME

(Differs from original -Excludes Price Proposal and Financial Statement)

- Proposal Checklist
- Respondent Questionnaire
- Acknowledgement Form
- Evaluation Criteria Form
 - Team Qualifications and Experience (with Resumes, Organizational Chart and Safety Information)
 - Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget
 - Project Approach, Schedule and Availability

I certify that the proposal packet submitted includes all required items as indicated above.

Signature

Date

Printed Name

Title

Firm Name

ACKNOWLEDGEMENT FORM

(Rev. 4/9/20 – Addendum 6)

The undersigned acknowledges the following:

- Reading and understanding the Geotechnical Data Report (GDR) and the Geotechnical Baseline Report (GBR). Furthermore, the undersigned understands that these reports are included as Contract Documents.
- Escrow Bid Documents will be required by the selected Contractor upon notification, of award, per Special Specification 01130.
- Self-guided site visit information is available and should be used to visit the project site during the advertisement period.

Respondent's Signature

Title

Firm Name

Firm Address

PRICE PROPOSAL

PROPOSAL OF _____, a corporation

a partnership consisting of

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

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

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

RESPONDENT'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

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

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

The Respondent offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **1217** calendar days after the start date, as set forth in the Authorization to Proceed. **The Respondent understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

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

W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project

GENERAL PRICE PROPOSAL ITEMS						
LINE NO.	ITEM NO.	ITEM DESCRIPTION	QUANTITY:	UNIT	UNIT PRICE	PROPOSAL COST:
1	103.1	REMOVE CONCRETE CURB (COSA SPEC)	60	LF	\$	\$
2	103.4	REMOVE MISCELLANEOUS CONCRETE	813	SF	\$	\$
3	C85A (1)	INSTALL TEMPORARY CHAIN-LINK WIRE FENCE	150	LF	\$	\$
4	C85A (2)	INSTALL CONCRETE COSA TRAIL	89	SY	\$	\$
5	C85	24' CANTILEVER MANUAL SLIDE GATE	7	EA	\$	\$
6	C85B	REMOVE AND RELOCATE JBSA PERIMETER FENCE	365	LF	\$	\$
7	104 6015	REMOVE CONC (SIDEWALKS) (TXDOT SPEC)	456	SY	\$	\$
8	104 6017	REMOVE CONC (DRIVEWAYS) (TXDOT SPEC)	675	SY	\$	\$
9	104 6021	REMOVE CONC (CURB) (TXDOT SPEC)	1,615	LF	\$	\$
10	105 6014	REMOVING STAB BASE & ASPH PAV (7"-12")	295	SY	\$	\$
11	200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	6,015	SY	\$	\$
12	203.1	TACK COAT (COSA SPEC)	694	GAL	\$	\$
13	205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	61	SY	\$	\$
14	205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	6,936	SY	\$	\$
15	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	6,720	SY	\$	\$
16	209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	6,015	SY	\$	\$
17	300	ONE COURSE SURFACE TREATMENT (TXDOT SPEC)	870	SY	\$	\$
18	305 6002	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (TXDOT SPEC)	1,645	SY	\$	\$
19	305 6003	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4" DEPTH) (TXDOT SPEC)	870	SY	\$	\$
20	340	HOT MIX ASPHALTIC PAVEMENT - TYPE D (4-INCH COMPACTED DEPTH) (TXDOT SPEC)	870	SY	\$	\$
21	340 6272	TACK COAT (TXDOT SPEC)	167	GAL	\$	\$
22	341 6029	D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	185	TN	\$	\$
23	401	FLOWABLE FILL (TXDOT SPEC)	1,471	CY	\$	\$
24	464 6003	RC PIPE (CL III) (24-INCH) (TXDOT SPEC)	20	LF	\$	\$
25	467 6359	SET (TY II) (24-INCH) (RCP) (4:1) (P) (TXDOT SPEC)	4	EA	\$	\$
26	500.1	CONCRETE CURB (COSA SPEC)	60	LF	\$	\$
27	502 6025	BARRICADES, SIGNS, AND TRAFFIC HANDLING (TXDOT SPEC)	1	LS	\$	\$
28	529 6002	CONC CURB (TY II) (TXDOT SPEC)	1,184	LF	\$	\$
29	529 6025	CONC CURB (TY III) (TXDOT SPEC)	238	LF	\$	\$
30	530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	1,979	SY	\$	\$
31	531 6002	CONC SIDEWALKS (5-INCH) (TXDOT SPEC)	421	SY	\$	\$
32	SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	1	LS	\$	\$
33	540.7	CONSTRUCTION PERIMETER FENCE (COSA SPEC)	13,850	LF	\$	\$
34	550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	1,132	LF	\$	\$
35	636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	14	EA	\$	\$
36	644 6068	RELOCATE SM RD SN SUP&AM TY 10BWG (TXDOT SPEC)	2	EA	\$	\$
37	845	GATE, FENCING, AND PROPERTY MARKER DETAILS	2,140	LF	\$	\$
38	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	10	LF	\$	\$
39	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	57	LF	\$	\$
40	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	13	LF	\$	\$
41	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (6'-10' DEPTH)	48	LF	\$	\$
42	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	55	LF	\$	\$
43	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	152	LF	\$	\$
44	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	89	LF	\$	\$
45	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (22'-26' DEPTH)	92	LF	\$	\$
46	848A	15-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679, 46 PSI) (10'-14' DEPTH)	70	LF	\$	\$
47	848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (6'-10' DEPTH)	4	LF	\$	\$
48	848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (10'-14' DEPTH)	76	LF	\$	\$
49	848B	SANITARY SEWERS - PIPE TESTING AND ACCEPTANCE	1	LS	\$	\$
50	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	10	EA	\$	\$
51	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE W/ DROP (4' DIAMETER)	4	EA	\$	\$
52	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	1	EA	\$	\$
53	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE W/ DROP, MITER (12' DIAMETER)	2	EA	\$	\$
54	853A	EXTRA DEPTH (>6') FIBERGLASS MANHOLE (4' DIAMETER)	135	VF	\$	\$
55	853A	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	22	VF	\$	\$
56	853A	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (12' DIAMETER)	47	VF	\$	\$
57	853B	FIBER-REINFORCED SANITARY SEWER MANHOLES - MANHOLE TESTING AND ACCEPTANCE	1	LS	\$	\$
58	855	RECONSTRUCTION OF EXISTING MANHOLES	1	EA	\$	\$
59	857	30-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (4'-6' DEPTH)	60	LF	\$	\$
60	857	60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	13	LF	\$	\$
61	857	78-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	8	LF	\$	\$
62	857	78-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (35'-40' DEPTH)	300	LF	\$	\$
63	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH)	40	LF	\$	\$

W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project

GENERAL PRICE PROPOSAL ITEMS						
LINE NO.	ITEM NO.	ITEM DESCRIPTION	QUANTITY:	UNIT	UNIT PRICE	PROPOSAL COST:
64	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	75	LF	\$	\$
65	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	51	LF	\$	\$
66	SP857	HOBAS PIPE MATERIAL ONLY (60-INCH, 78-INCH, & 104-INCH)	1	LS	\$18,098,685.00	\$18,098,685.00
67	858	CONCRETE ENCASMENT, CRADLES, SADDLES AND COLLARS	4	CY	\$	\$
68	01520	GEOTECHNICAL INSTRUMENTATION AND MONITORING	1	LS	\$	\$
69	02410	GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP SANITARY SEWER)	924	LF	\$	\$
70	02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	27,664	LF	\$	\$
71	02415	EXCAVATION VIA GUIDED BORING OR MICROTUNNEL (36-INCH)	750	LF	\$	\$
72	02415	INSTALLATION OF STEEL CASING PIPE (36-INCH)	750	LF	\$	\$
73	02415	CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (8-INCH)	378	LF	\$	\$
74	02415	CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (12-INCH)	372	LF	\$	\$
75	02430	INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	2,523	LF	\$	\$
76	02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	26,200	LF	\$	\$
77	02431	ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	2,523	LF	\$	\$
78	02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	26,130	LF	\$	\$
79	02440	GENERAL SHAFT REQUIREMENTS (W-6 MIDDLE SEGMENT SHAFT)	1	LS	\$	\$
80	02440	GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT)	1	LS	\$	\$
81	02440	GENERAL SHAFT REQUIREMENTS (MERRY OAKS SHAFT)	1	LS	\$	\$
82	02440	GENERAL SHAFT REQUIREMENTS (WATER TOWER SHAFT)	1	LS	\$	\$
83	02440	GENERAL SHAFT REQUIREMENTS (HOTEL SHAFT)	1	LS	\$	\$
84	02440	GENERAL SHAFT REQUIREMENTS (SOLIDS HANDLING SHAFT)	1	LS	\$	\$
85	02440	GENERAL SHAFT REQUIREMENTS (W-1 CONNECTION SHAFT)	1	LS	\$	\$
86	02440	GENERAL SHAFT REQUIREMENTS (BALLPARK SHAFT)	1	LS	\$	\$
87	02440	GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT)	1	LS	\$	\$
88	02600	POLYMER CONCRETE SANITARY SEWER MANHOLE, DROP (12' DIAMETER) (ALL DEPTHS)	1	EA	\$	\$
89	02610	STEEL CASING - (48-INCH)(0.625-INCH THICK)	167	LF	\$	\$
90	00862	ABANDON - SANITARY SEWER MAIN (54-INCH)	5,533	LF	\$	\$
91	862.1	ABANDON - SANITARY SEWER MAIN (48-INCH)	447	LF	\$	\$
92	862.1	ABANDON - SANITARY SEWER MAIN (15-INCH)	910	LF	\$	\$
93	862.1	ABANDON - SANITARY SEWER MAIN (12-INCH)	526	LF	\$	\$
94	00862	ABANDON - SANITARY SEWER MAIN (10-INCH)	178	LF	\$	\$
95	00862	ABANDON - SANITARY SEWER MAIN (8-INCH)	191	LF	\$	\$
96	864-S1	BYPASS PUMPING SMALL DIAMETER SANITARY SEWERS (<24-INCH)	1	LS	\$	\$
97	864-S2	BYPASS PUMPING LARGE DIAMETER SANITARY SEWERS (≥24-INCH)	1	LS	\$	\$
98	866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	3,146	LF	\$	\$
99	866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	8,503	LF	\$	\$
100	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	26,672	LF	\$	\$
101	1100	SLIP-LINING SANITARY SEWERS(SLIPLINE 48" STEEL CASING W/ 24")(10'-14' DEPTH)	167	LF	\$	\$
102	1100	SLIP-LINING SANITARY SEWERS(SLIPLINE EX. 54" W/ 48" STEEL CASING)(10'-14' DEPTH)	160	LF	\$	\$
103	11280	STAINLESS STEEL SLIDE GATES	1	LS	\$	\$
104	11310	PACKAGE METERING MANHOLE	1	LS	\$	\$
SUBTOTAL A (ITEMS 1-104)			\$			
105	100	INTERMEDIATE DEMOBILIZATION BYPASS EQUIPMENT RENTAL	20	MD	\$	\$
106	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	20	MD	\$	\$
107	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH	20	MD	\$	\$
108	02086	EXCAVATION, CLASSIFICATION, TRANSPORTATION, AND DISPOSAL OF TPH AFFECTED SOIL	13,000	TON	\$	\$
109	01030	W-1 CLEANING AND MAINTENANCE	1	LS	\$	\$
110	01020	TIME EXTENSION FOR W-1 BYPASS	1	AL	\$3,700,000.00	\$3,700,000.00
111	01020	ODOR CONTROL	1	AL	\$1,650,000.00	\$1,650,000.00
112	SC8.7	EARLY COMPLETION BONUS ALLOWANCE	1	AL	\$3,000,000.00	\$3,000,000.00
113	100A	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (OPEN CUT)	1	EA	\$	\$
SUBTOTAL B (ITEMS 105-113)			\$			
114	100B	TBM MOBILIZATION (MAX 5% OF ITEMS 1 TO 104)	1	LS	\$	\$
115	100	MOBILIZATION (MAX 2% OF ITEMS 1 TO 104)	1	LS	\$	\$
116	101	PREPARING RIGHT-OF-WAY (MAX 1% OF ITEMS 1 TO 104)	1	LS	\$	\$
SUBTOTAL C (ITEMS 114-116)			\$			

TOTAL (SUBTOTAL A+ SUBTOTAL B+ SUBTOTAL C)

\$

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

PROPOSAL CERTIFICATION

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

It is anticipated that the Owner will act on this proposal within **90** calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within **10** calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

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

The work called for in this Contract shall commence on the date indicated in the SAWS written Authorization to Proceed Under no circumstances shall the work commence prior to the date provided for in the SAWS issued, written Authorization to Proceed. Work shall be completed in full within **1217** consecutive calendar days.

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

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

Signed: _____
Company Representative

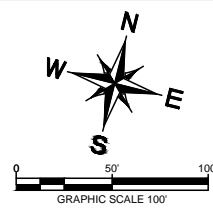
Company Name

Address

Please return bidder's check to:

Company Name

Address



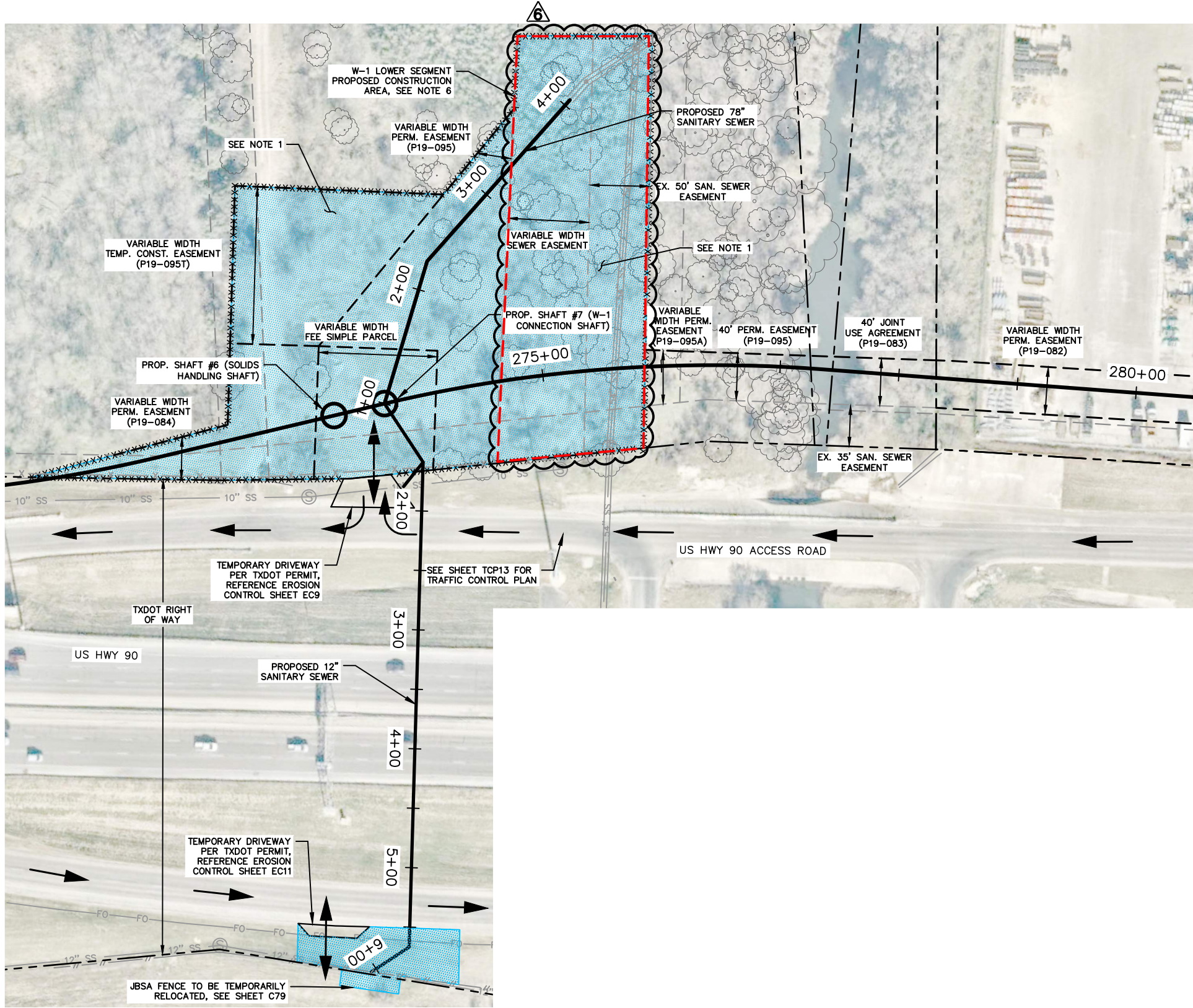
LEGEND	
ALLOWABLE CONTRACTOR STAGING/WORK AREA	
ALLOWABLE CONTRACTOR STAGING/WORK AREA INSIDE 100 YR FLOODPLAIN	
EXISTING SAN. SWR.	SS
PROP. SAN. SWR. LINE	
PROPERTY LINE	
CONSTRUCTION ACCESS	
PROPOSED TEMP. FENCING	XXXXXXXXXXXXXXXXXXXXXXX
EXISTING EASEMENT	
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	

CONTRACTOR STAGING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A STORAGE AREA. THE STORAGE AREA MUST BE SECURED BY FENCING OR SOME OTHER METHOD THAT DOES NOT ALLOW ACCESS TO THE STORED PIPE MATERIAL, FITTINGS OR APPURTENANCES. MATERIALS SHALL BE STORED SO THAT THE STORAGE AREA REMAINS CLEAN AND FREE FROM DEBRIS. CONTRACTOR SHALL USE WORK AREA WITHIN THE 100 YR FLOODPLAIN FOR STAGING PER SPECIAL CONDITIONS IN THE SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA AT THE END OF EACH DAY. ANY EXCAVATION IN AN AREA THAT IS NOT FENCED SHALL BE FILLED OR COVERED WITH STEEL PLATES.
3. CONTRACTOR SHALL NOT STORE EXCESSIVE AMOUNTS OF PIPE AND APPURTENANCES ALONG THE CONSTRUCTION ROUTE. MATERIALS ALLOWED TO BE STORED WITHIN WORK ZONE SHALL ONLY INCLUDE THOSE MATERIALS REQUIRED FOR CONSTRUCTION WITHIN SAID WORK ZONE. EXCESSIVE AMOUNTS OF PIPE AND APPURTENANCES SHALL BE STORED WITHIN THE TEMPORARY CONSTRUCTION EASEMENT LIMITS ACQUIRED FOR STAGING.
4. DURING THE MOVING OF CONSTRUCTION EQUIPMENT OR MATERIAL IN AND OUT OF AREAS THAT ARE CLOSED OR BARRICADED, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO FLAGMEN IN ACCORDANCE WITH THE TEXAS MANUAL ON TRAFFIC CONTROL DEVICES.
5. CONTRACTOR SHALL REFERENCE DETAIL 1 ON SHEET C85A FOR THE PROPOSED TEMPORARY FENCING.
6. CONTRACTOR SHALL REFERENCE SPECIAL CONDITION SC11 REGARDING COORDINATION REQUIREMENTS WITH THE W-1 PROJECT CONTRACTOR, WHICH WILL OCCUPY PART OF THE ALLOWABLE WORK AREA AT THIS SITE UNTIL W-1 PROJECT COMPLETION.
7. TEMPORARY DRIVEWAY LOCATIONS WERE COORDINATED WITH TXDOT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE CORRESPONDING PERMIT PROCESS THROUGH TXDOT PRIOR TO CHANGING ANY OF THE DRIVEWAY LOCATIONS.
8. FOR VEGETATION RESTORATION, REFER TO EROSION CONTROL NOTES IN SHEETS EC3 THROUGH EC12.
9. REFER TO TREE PRESERVATION PLAN AND TREE PROTECTION NOTES IN SHEETS TP1 THROUGH TP21.

SHAFT SITE POWER SUPPLY NOTES

10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL POWER REQUIREMENTS TO THE SITE WITH CPS.
11. CPS CAN PROVIDE THREE-PHASE POWER AT THE FOLLOWING SHAFT SITES: SHAFT #1 - W-6 MIDDLE CONNECTION SHAFT, SHAFT #2 - PEARSALL SHAFT, SHAFT #3 - MERRY OAKS, SHAFT #4 - WATER TOWER SHAFT, AND SHAFT #5 - HOTEL SHAFT. THE USE OF THREE-PHASE AT THESE LOCATIONS IS AT THE SOLE DISCRETION OF THE CONTRACTOR WHO MAY ELECT TO USE ALTERNATE MEANS AND METHODS OF POWER SUPPLY.
12. THREE-PHASE POWER IS NOT AVAILABLE AT THE FOLLOWING SHAFT SITES: SHAFT #6 - SOLIDS HANDLING SHAFT, SHAFT #7 - W-1 CONNECTION SHAFT, SHAFT #8 - BALLPARK SHAFT, AND SHAFT #9 - CALLAGHAN SHAFT. POWER SUPPLY AT THESE SHAFT LOCATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



3/25/2020

Kimley»Horn

Texas Registered Firm, No. F-928

601 NW Loop 410 Suite 350 San Antonio, TX 78216
Tel No. 210-541-9166 Fax No. 210-541-8699

No.	Revision	By	Date
6	ADDENDUM NO. 6	JAF	4/9/2020

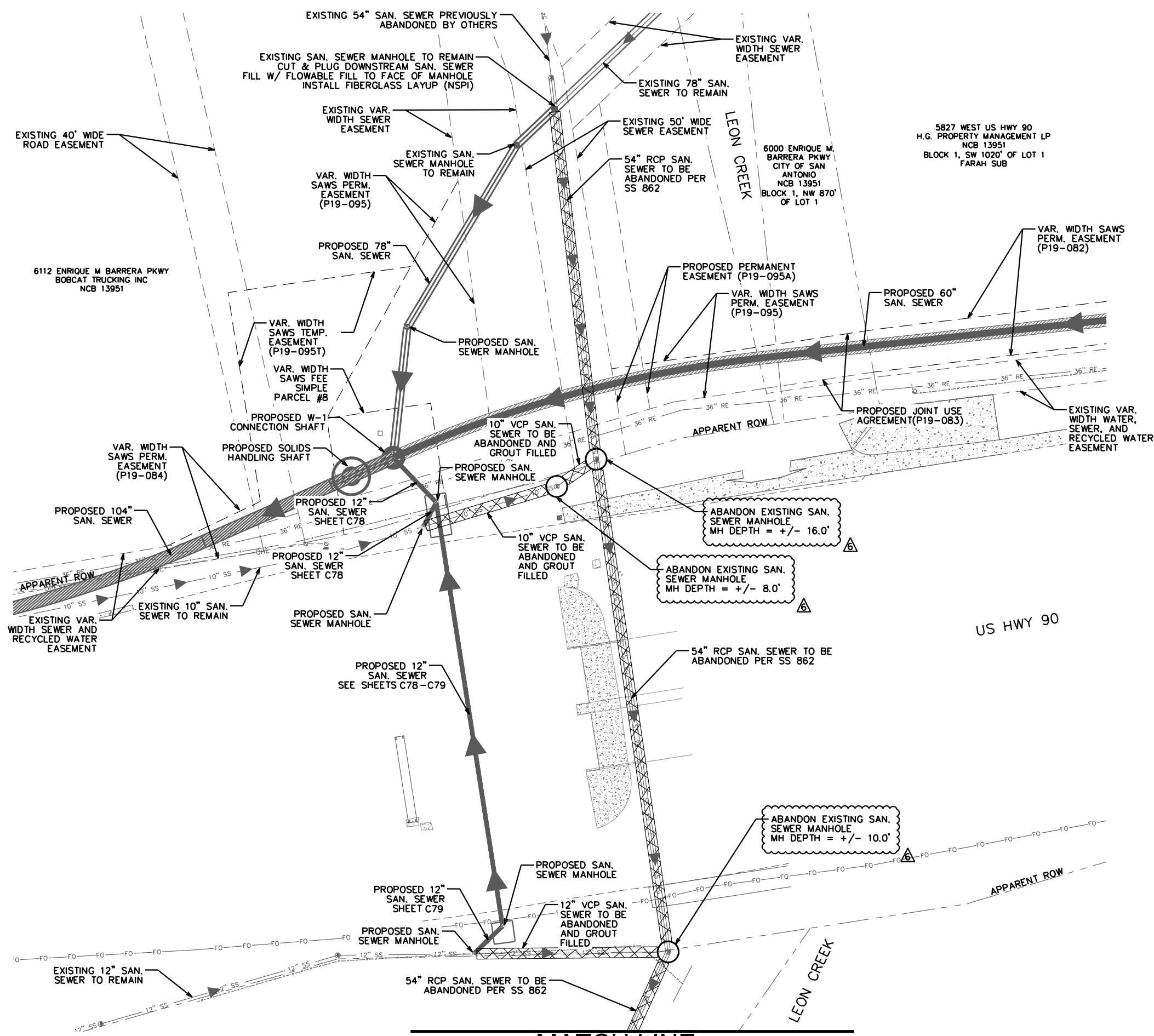
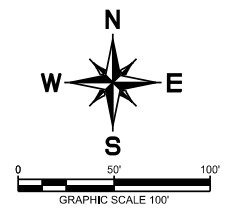
SAN ANTONIO WATER SYSTEM

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

**CONTRACTOR ACCESS
AND STAGING PLAN
(SHEET 4 OF 6)**

DATE: APRIL 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G32
DESIGN: JKN	KHA PROJECT NO. 068665052	
DRAWN: DJC		
CHECKED: JAF		

PLOTTED BY: DWG NAME: JAF
 WILSON CONNER 4/7/2020 8:40 PM
 K:\SNA UTILITIES\06866505\CADD\SHEETS\CONTRACTOR ACCESS AND STAGING_14.DWG
 2/28/2020 10:12 AM



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
862.1	ABANDON - SANITARY SEWER MAIN (54-INCH)	LF	892.00
862.1	ABANDON - SANITARY SEWER MAIN (12-INCH)	LF	185.00
862.1	ABANDON - SANITARY SEWER MAIN (10-INCH)	LF	178.00
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	363.00
866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	892.00

- NOTES:
- ALL SAN. SEWER MAINS AND MANHOLES TO BE REMOVED FOR THE INSTALLATION OF PROPOSED MAINS AND MANHOLES WILL BE AT NO ADDITIONAL COST TO THE OWNER (NSPI).
 - ALL SAN. SEWER MAINS LOCATED IN TXDOT RIGHT-OF-WAY TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862. ALL OTHER SAN. SEWER MAINS 15" OR GREATER IN DIAMETER TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862.
 - CONTRACTOR SHALL BACKFILL AND REPAIR PAVEMENT/GRAVEL, PER SAWS AND/OR TXDOT SPECIFICATIONS, ASSOCIATED WITH THE REMOVAL OF EXISTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER (NSPI).

LEGEND

PROPOSED SANITARY SEWER MAIN	
EXISTING SANITARY SEWER MAIN	
MANHOLE TO BE ABANDONED	
PAVEMENT RESTORATION LIMITS	
LINE TO BE ABANDONED	
EXISTING WATER LINE	
PROPERTY LINE	
EDGE OF ASPHALT	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
LACKLAND AFB ACCESS PATH	

DALE P. MURPHY
PROFESSIONAL ENGINEER
#16/2020

K-FRIESE + ASSOCIATES
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www.kfriese.com

No.	Revision	By	Date
6	ADDENDUM NO. 6	DM	4/3/2020

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

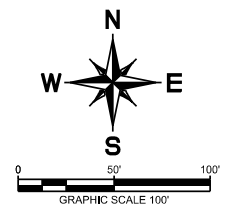
SHEET

ABANDONMENT PLAN
(SHEET 1 OF 4)

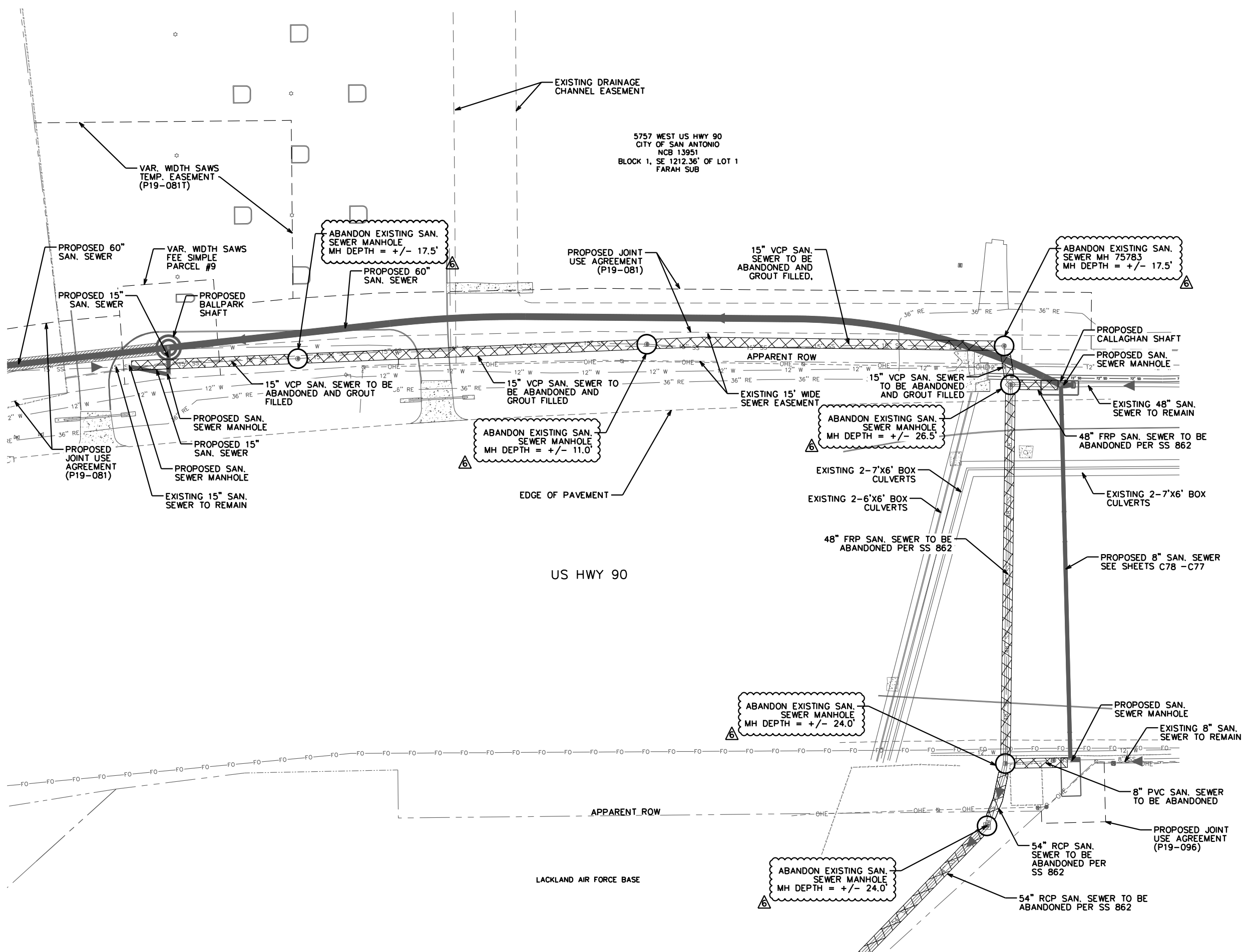
DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	G34
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		

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MATCH LINE
SEE SHEET G37



5757 WEST US HWY 90
CITY OF SAN ANTONIO
NCB 13951
BLOCK 1, SE 1212.36' OF LOT 1
FARAH SUB



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
862.1	ABANDON - SANITARY SEWER MAIN (54-INCH)	LF	309.00
862.1	ABANDON - SANITARY SEWER MAIN (48-INCH)	LF	447.00
862.1	ABANDON - SANITARY SEWER MAIN (15-INCH)	LF	910.00
862.1	ABANDON - SANITARY SEWER MAIN (8-INCH)	LF	68.00
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	910.00
866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	756.00

- NOTES:
- ALL SAN. SEWER MAINS AND MANHOLES TO BE REMOVED FOR THE INSTALLATION OF PROPOSED MAINS AND MANHOLES WILL BE AT NO ADDITIONAL COST TO THE OWNER (NSPI).
 - ALL SAN. SEWER MAINS LOCATED IN TXDOT RIGHT-OF-WAY TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862. ALL OTHER SAN. SEWER MAINS 15" OR GREATER IN DIAMETER TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862.
 - CONTRACTOR SHALL BACKFILL AND REPAIR PAVEMENT/GRAVEL, PER SAWS AND/OR TXDOT SPECIFICATIONS, ASSOCIATED WITH THE REMOVAL OF EXISTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER (NSPI).

LEGEND

PROPOSED SANITARY SEWER MAIN	
EXISTING SANITARY SEWER MAIN	
MANHOLE TO BE ABANDONED	
PAVEMENT RESTORATION LIMITS	
LINE TO BE ABANDONED	
EXISTING WATER LINE	
PROPERTY LINE	
EDGE OF ASPHALT	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
LACKLAND AFB ACCESS PATH	

DALE P. MURPHY
LICENSED PROFESSIONAL ENGINEER
4/16/2020

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No.	Revision	By	Date
6	ADDENDUM NO. 6	DM	4/3/2020

SAN ANTONIO WATER SYSTEM

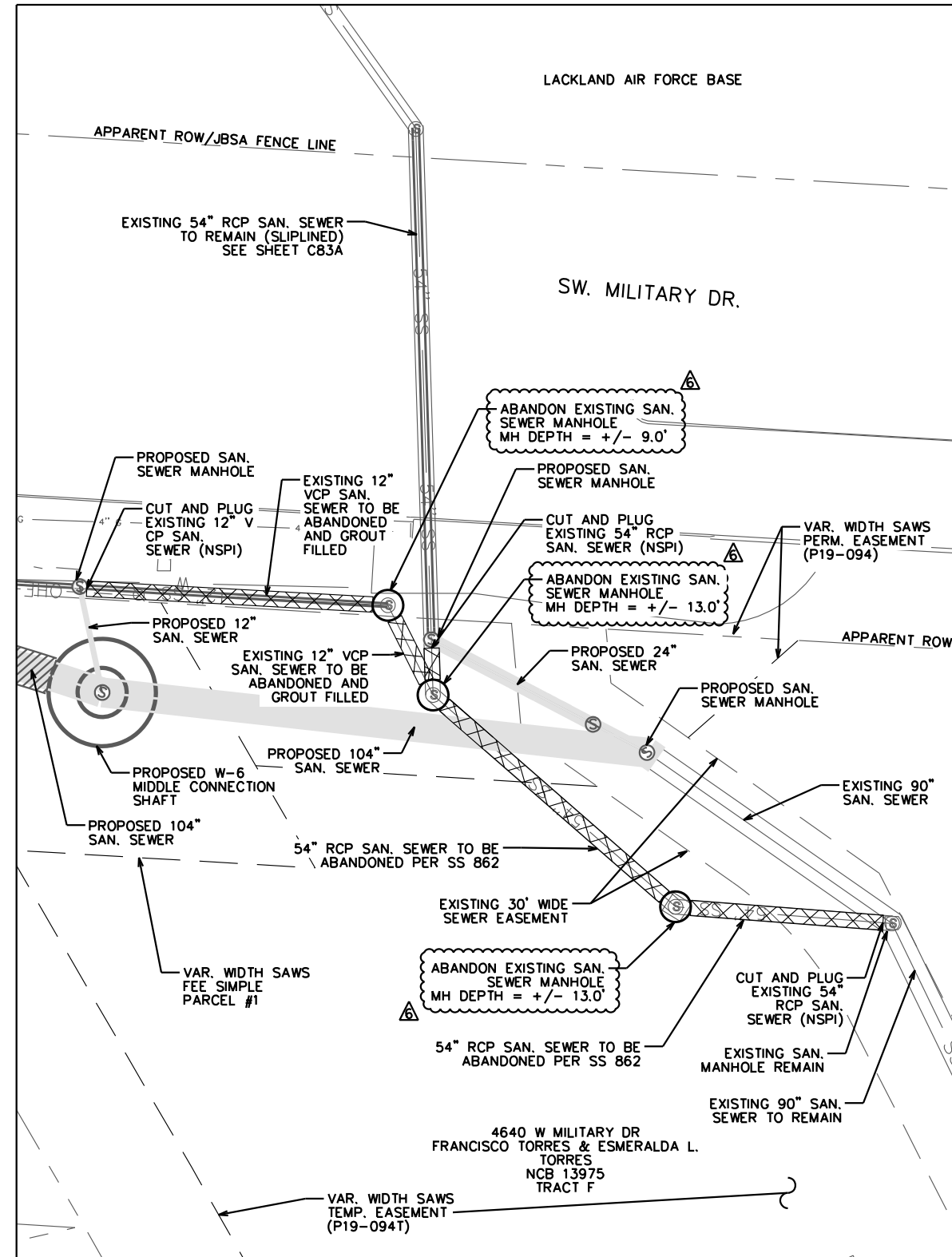
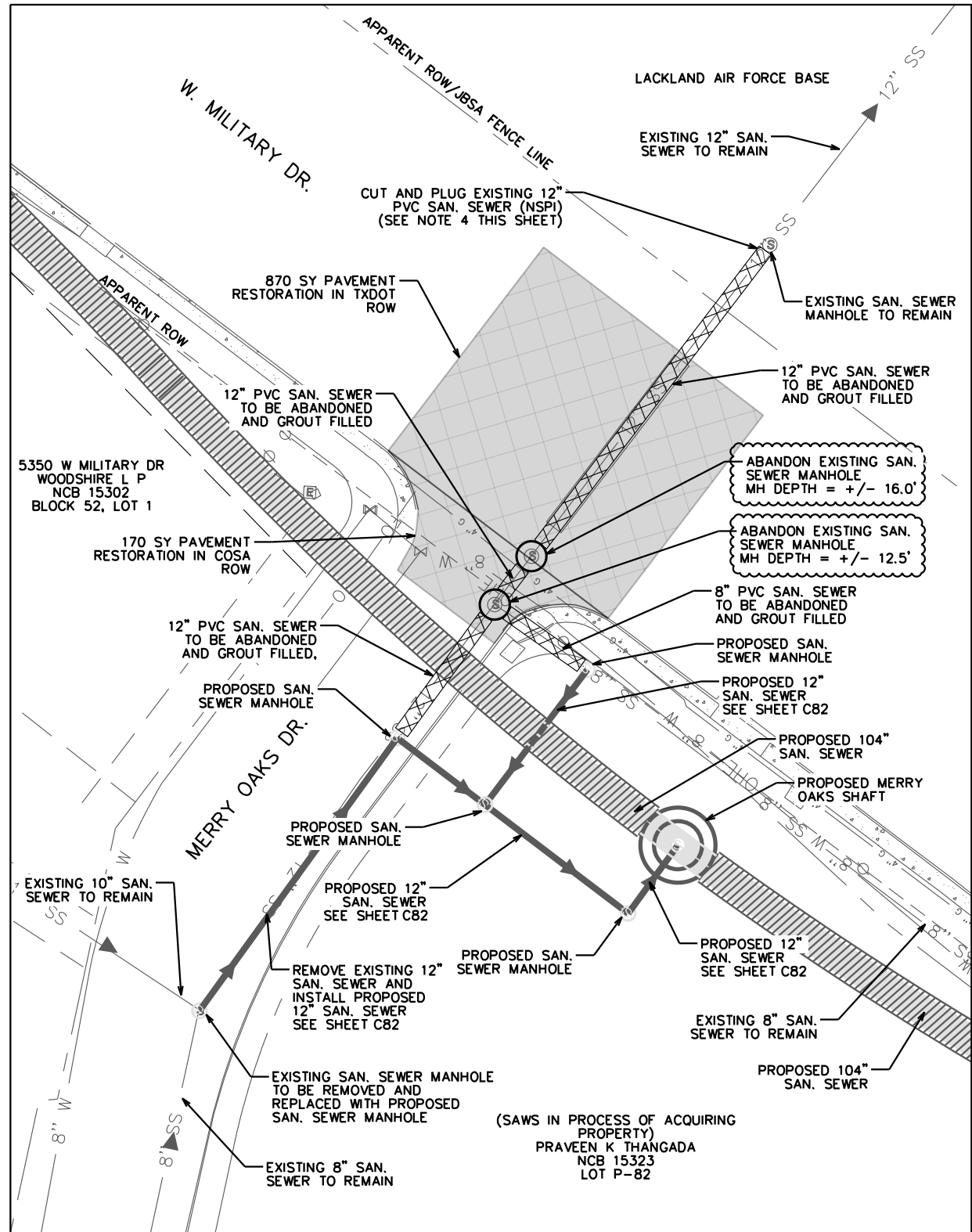
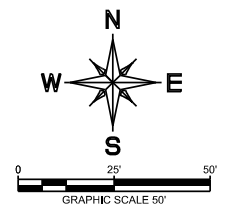
**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

SHEET
**ABANDONMENT PLAN
(SHEET 2 OF 4)**

DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G35
DESIGN: KFA	KHA PROJECT NO.	
DRAWN: KFA	068665052	
CHECKED: KFA		

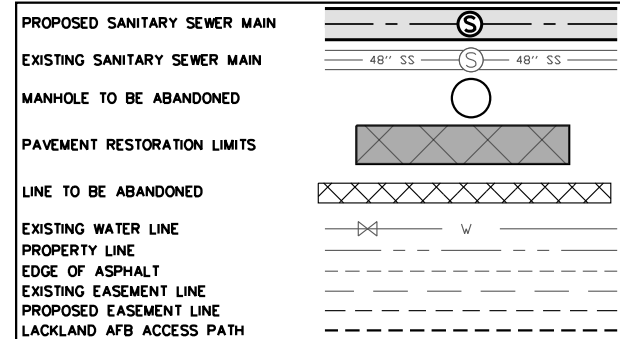
MATCH LINE SEE SHEET G37

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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203.1	TACK COAT (COSA SPEC)	GAL	17.00
205	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	170.00
208	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	170.00
300	ONE COURSE SURFACE TREATMENT (TXDOT SPEC)	SY	870.00
305	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4" DEPTH) (TXDOT SPEC)	SY	870.00
340	HOT MIX ASPHALTIC PAVEMENT - TYPE D (4" COMPACTED DEPTH) (TXDOT SPEC)	SY	870.00
862.1	ABANDON - SANITARY SEWER MAIN (54-INCH)	LF	194.00
862.1	ABANDON - SANITARY SEWER MAIN (12-INCH)	LF	341.00
862.1	ABANDON - SANITARY SEWER MAIN (8-INCH)	LF	123.00
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	464.00
866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	194.00

LEGEND



DALE P. MURPHY
PROFESSIONAL ENGINEER
#16/2020

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No.	Revision	By	Date
5	ADDENDUM NO. 5	DM	3/23/2020
6	ADDENDUM NO. 6	DM	4/3/2020

MERRY OAKS SHAFT

NOTES:

- ALL SAN. SEWER MAINS AND MANHOLES TO BE REMOVED FOR THE INSTALLATION OF PROPOSED MAINS AND MANHOLES WILL BE AT NO ADDITIONAL COST TO THE OWNER (NSPI).
- ALL SAN. SEWER MAINS LOCATED IN TXDOT RIGHT-OF-WAY TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862. ALL OTHER SAN. SEWER MAINS 15" OR GREATER IN DIAMETER TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862.
- CONTRACTOR SHALL BACKFILL AND REPAIR PAVEMENT/GRAVEL, PER SAWS AND/OR TXDOT SPECIFICATIONS, ASSOCIATED WITH THE REMOVAL OF EXISTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER (NSPI).
- CONTRACTOR SHALL REFER TO SHEET G33A FOR LACKLAND AIR FORCE BASE ACCESS ROUTE AND REQUIREMENTS.

W-6 MIDDLE CONNECTION SHAFT

SAN ANTONIO WATER SYSTEM

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

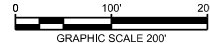
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ABANDONMENT PLAN
(SHEET 3 OF 4)

DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	G36
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		

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MATCH LINE
SEE SHEET G35



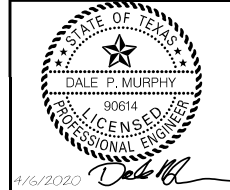
MATCH LINE
SEE SHEET G34

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
862.1	ABANDON - SANITARY SEWER MAIN (54-INCH)	LF	4138.00
866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	4138.00

- NOTES:
- ALL SAN. SEWER MAINS AND MANHOLES TO BE REMOVED FOR THE INSTALLATION OF PROPOSED MAINS AND MANHOLES WILL BE AT NO ADDITIONAL COST TO THE OWNER (NSPI).
 - ALL SAN. SEWER MAINS LOCATED IN TXDOT RIGHT-OF-WAY TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862. ALL OTHER SAN. SEWER MAINS 15" OR GREATER IN DIAMETER TO BE ABANDONED SHALL BE FILLED WITH GROUT, PER SAWS SPECIFICATION 862.
 - CONTRACTOR SHALL BACKFILL AND REPAIR PAVEMENT/GRAVEL, PER SAWS AND/OR TXDOT SPECIFICATIONS, ASSOCIATED WITH THE REMOVAL OF EXISTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER (NSPI).
 - CONTRACTOR SHALL REFER TO SHEET G33A FOR LACKLAND AIR FORCE BASE ACCESS ROUTE AND REQUIREMENTS.
 - EXCAVATION LOCATIONS FOR INSTALLING GROUT HAVE BEEN COORDINATED WITH LACKLAND AIR FORCE BASE. CONTRACTOR SHALL NOTIFY THE ENGINEER 8 WEEKS IN ADVANCE TO REQUEST EVALUATION OF ANY DIFFERING EXCAVATION LOCATIONS. APPROVAL WILL BE AT THE OWNER'S AND BASE'S DISCRETION.
 - CONTRACTOR SHALL BE AWARE THAT SITE CONDITIONS ALONG POTENTIAL ACCESS ROUTE LIKELY WILL CHANGE BY THE TIME ABANDONMENT WORK IS DONE AND ADDITIONAL WORK TO PROVIDE A USABLE ACCESS ROUTE LIKELY WILL BE REQUIRED (NSPI).

LEGEND

PROPOSED SANITARY SEWER MAIN	
EXISTING SANITARY SEWER MAIN	
MANHOLE TO BE ABANDONED	
PAVEMENT RESTORATION LIMITS	
LINE TO BE ABANDONED	
EXISTING WATER LINE	
PROPERTY LINE	
EDGE OF ASPHALT	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
LACKLAND AFB ACCESS PATH	



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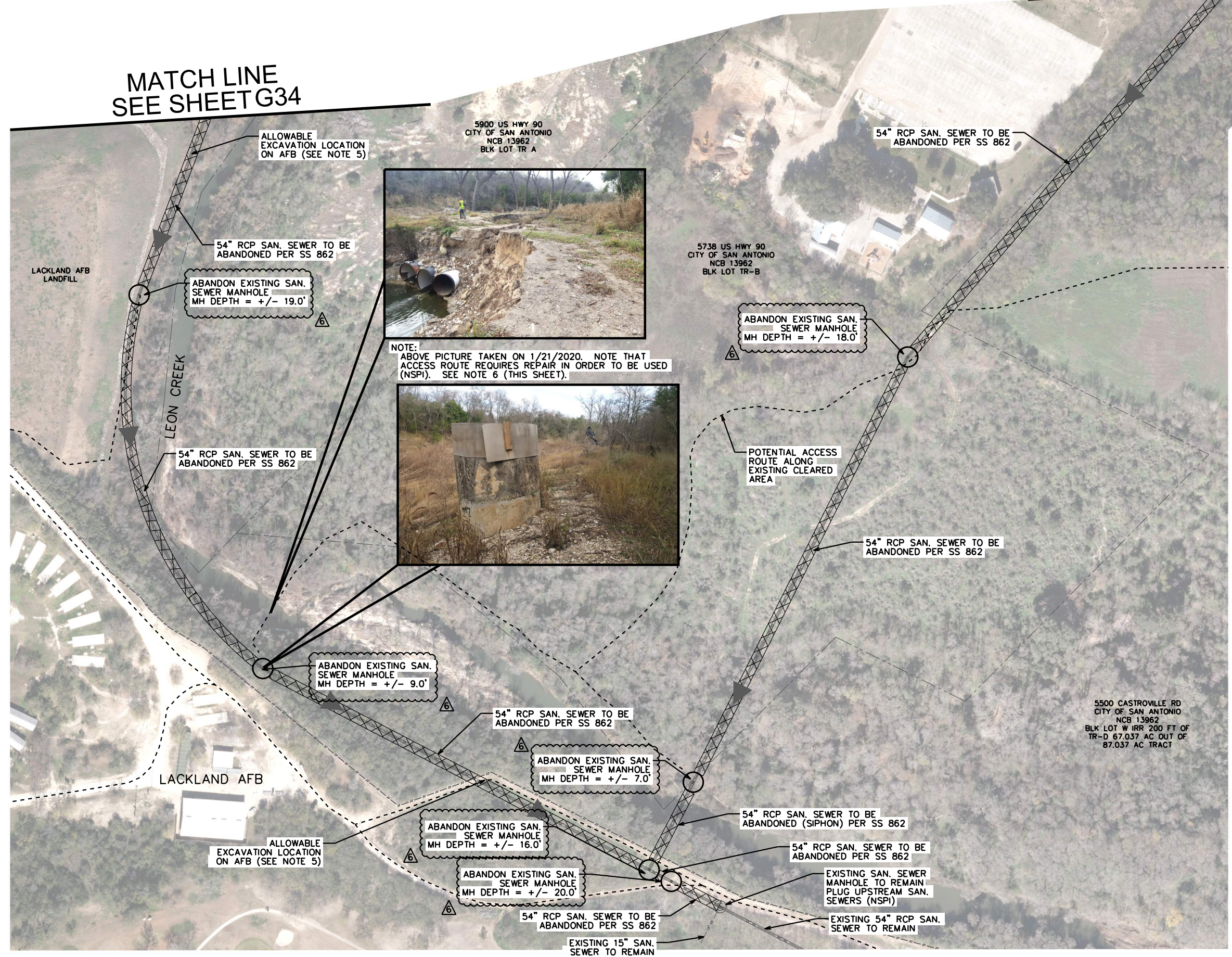
No.	Revision	By	Date
6	ADDENDUM NO. 6	DM	4/3/2020

SAN ANTONIO WATER SYSTEM

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

SHEET
**ABANDONMENT PLAN
(SHEET 4 OF 4)**

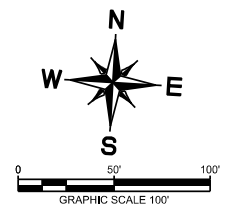
DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G37
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		



NOTE:
ABOVE PICTURE TAKEN ON 1/21/2020. NOTE THAT ACCESS ROUTE REQUIRES REPAIR IN ORDER TO BE USED (NSPI). SEE NOTE 6 (THIS SHEET).



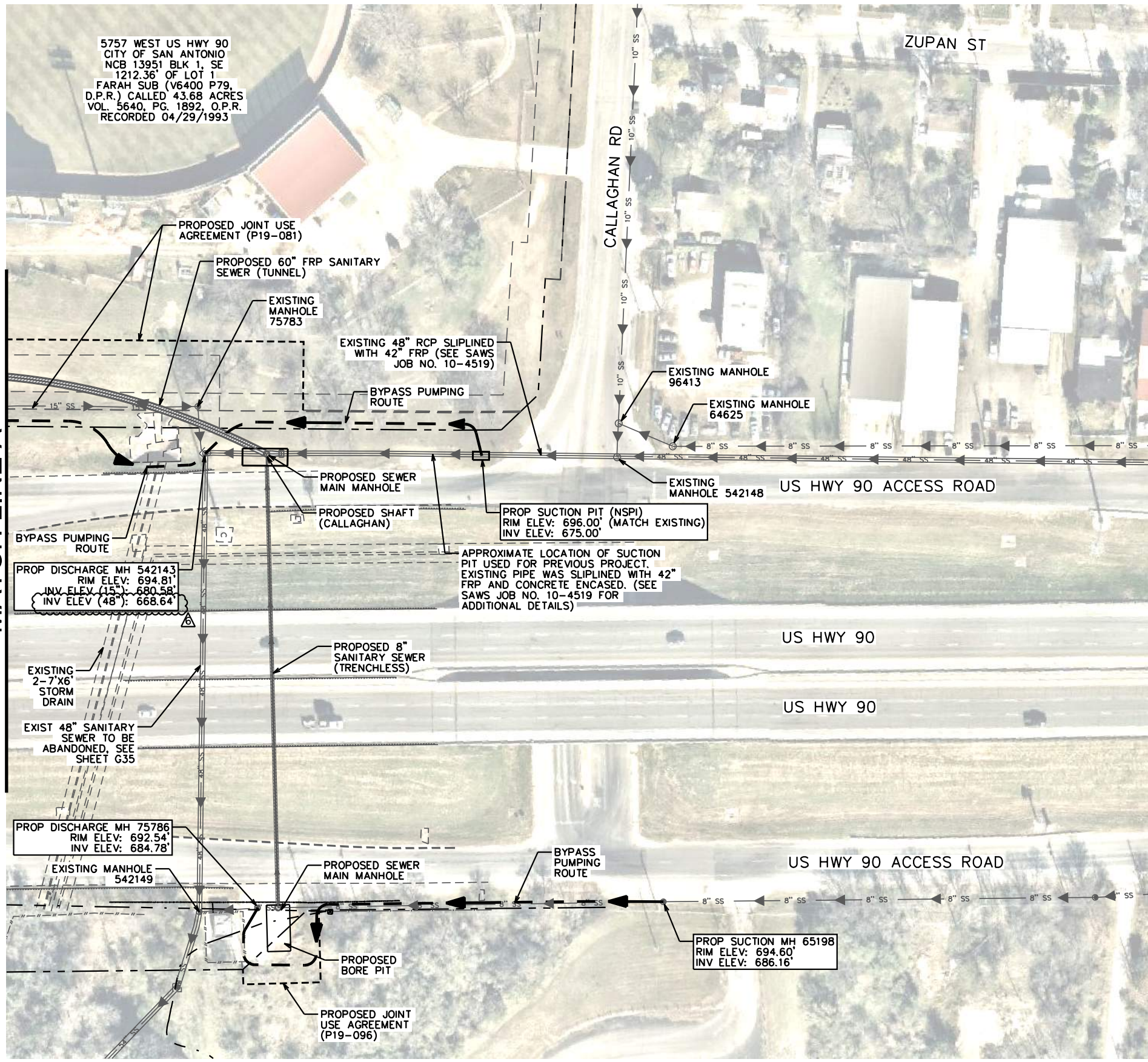
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BYPASS FLOW DATA

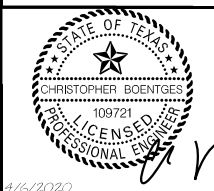
PROP SUCTION PIT SIZE	42	INCHES
ADWF	7.98	MGD
PDWF	12.08	MGD
PWWF	31.07	MGD

SEE SHEET G42
MATCH LINE A



LEGEND

PROPOSED SANITARY SEWER LINE	
PROPOSED TUNNEL	
EXISTING SANITARY SEWER LINE	
EXISTING WATER LINE	
EXISTING GAS LINE	
PROPERTY LINE	
EFFECTIVE 100-YR FLOOD PLAIN	
EDGE OF ASPHALT	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
CONCEPTUAL BYPASS ROUTE	



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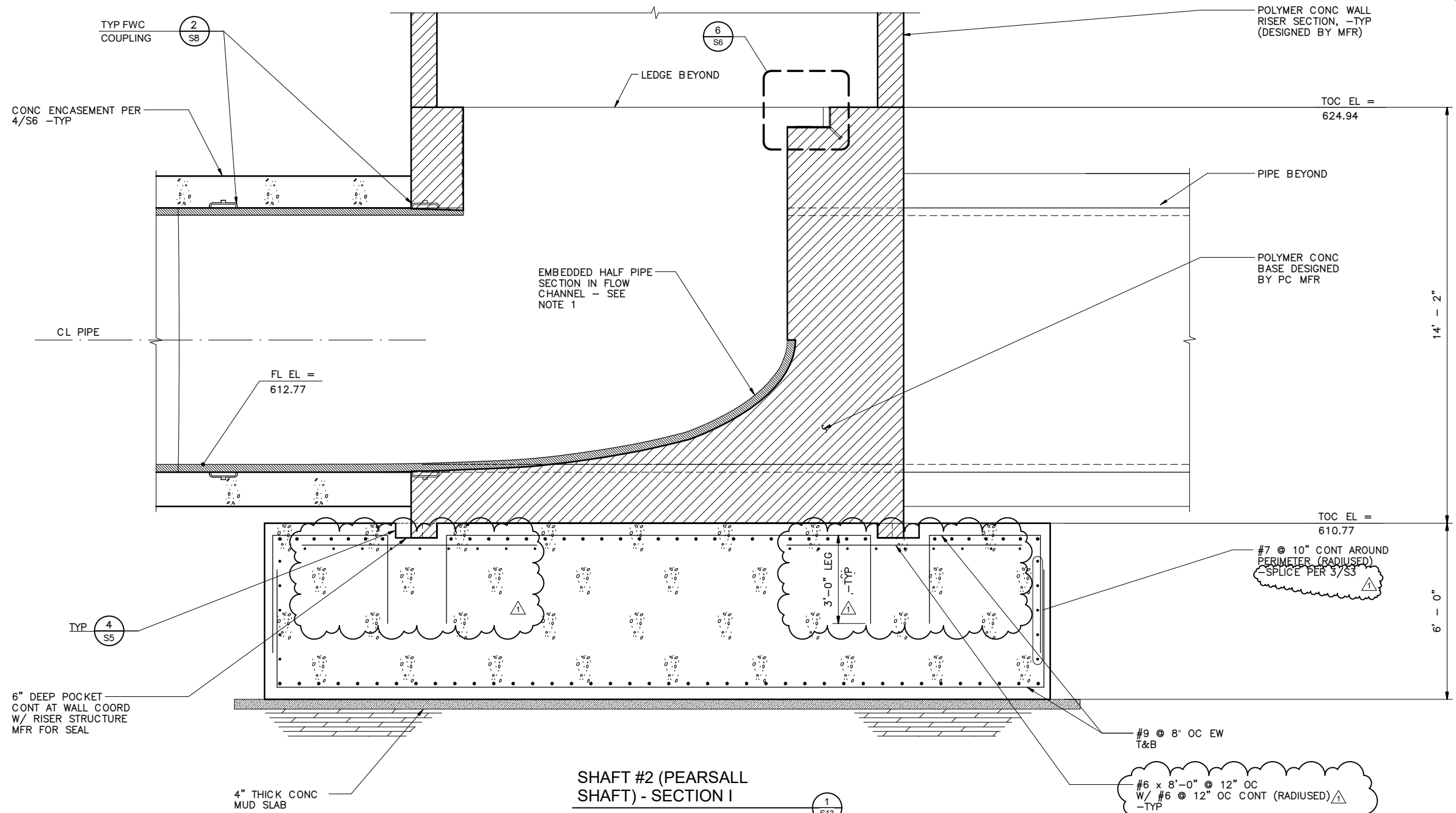
No.	Revision	By	Date
6	ADDENDUM NO. 6	CB	4/3/2020

<p>SAN ANTONIO WATER SYSTEM</p>	<p>W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR SEWER MAIN</p>
	<p>SHEET SUGGESTED BYPASS PUMPING LAYOUT (SHEET 5 OF 5)</p>

DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G43
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		

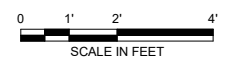
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NOTE:
 1. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO



SHAFT #2 (PEARSALL SHAFT) - SECTION I

SCALE: 1/2" = 1'-0"



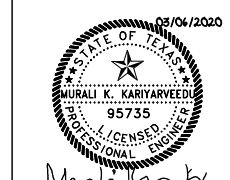
#6 x 8'-0" @ 12" OC W/ #6 @ 12" OC CONT (RADIUSED) -TYP

#7 @ 10" CONT AROUND PERIMETER (RADIUSED) - SPLICE PER 3/S3

#9 @ 8" OC EW T&B

6" DEEP POCKET CONT AT WALL COORD W/ RISER STRUCTURE MFR FOR SEAL

4" THICK CONC MUD SLAB



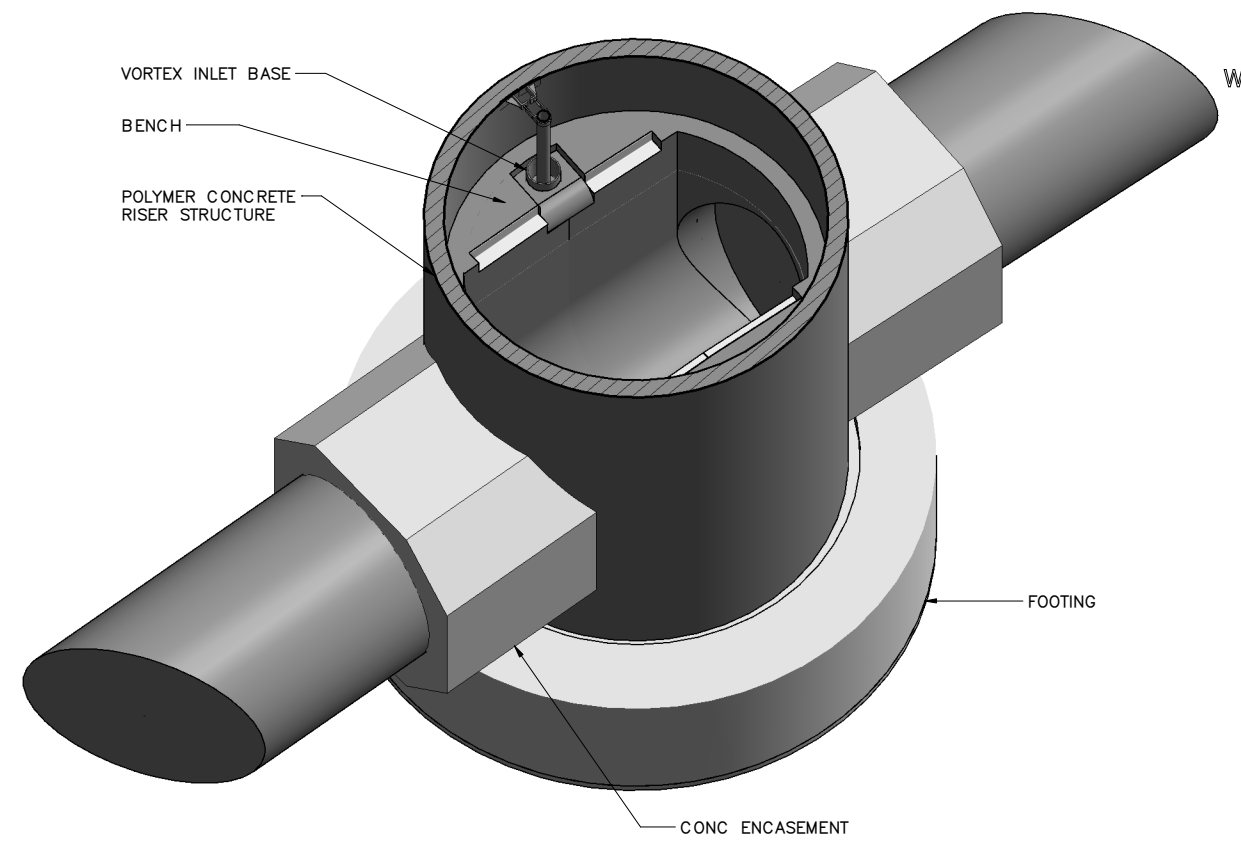
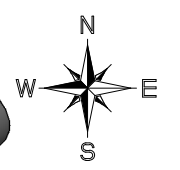
No.	Revision	By	Date
1	ADDENDUM NO 1	MKK	03/06/20



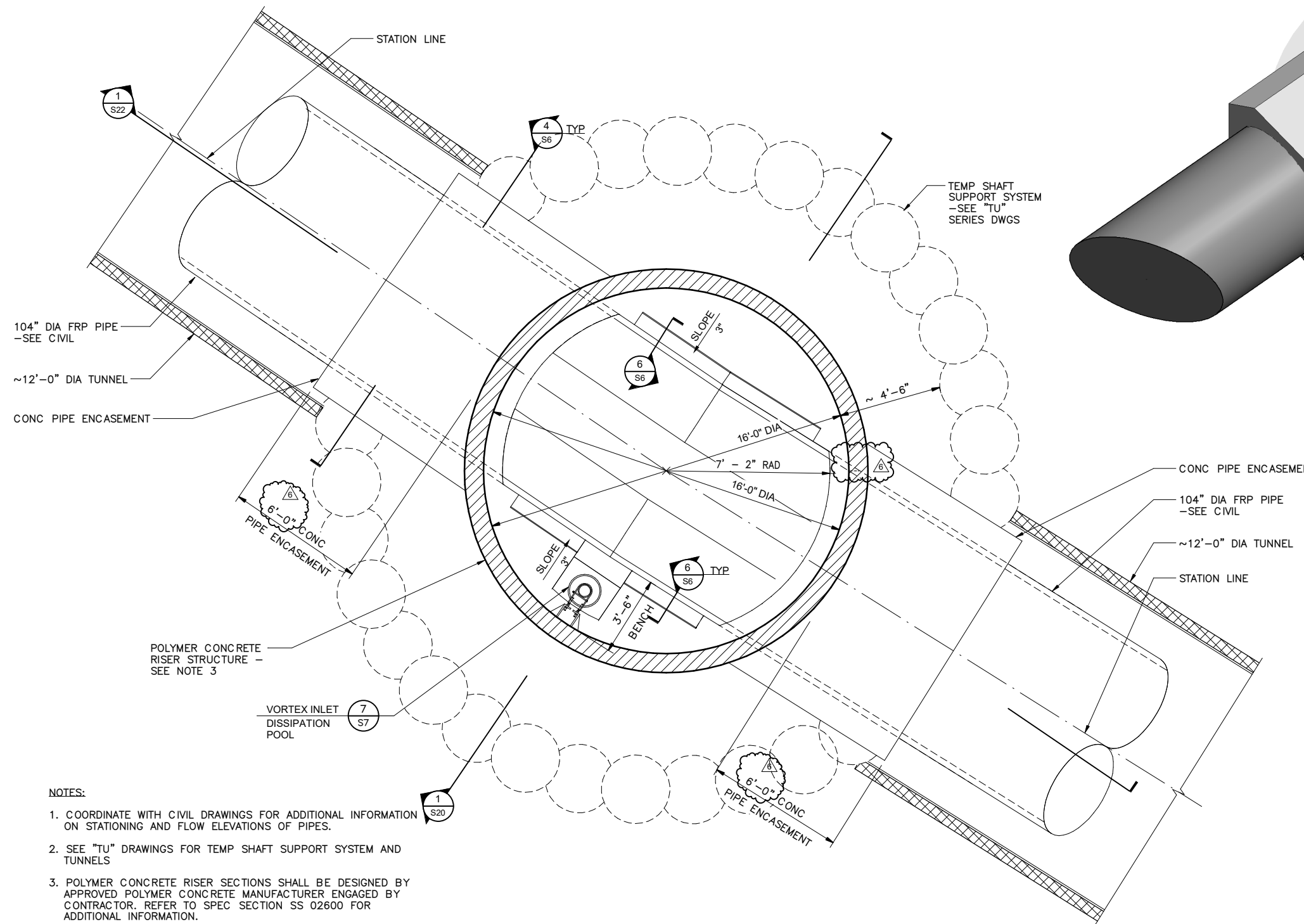
**W-6 UPPER SEGMENT:
 HWY 90 TO SW MILITARY DR
 SHAFT #2 (PEARSALL SHAFT)
 - SECTION I**

THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17). BAR IS ONE INCH ON FULL SIZE DRAWING.	DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET NO. S14
	DESIGN: CD	KHA PROJECT NO.	
	DRAWN: LAS	068665052	
	CHECKED: MK		

PLOTTED BY: JQI
 DWG NAME: S14_SAVED
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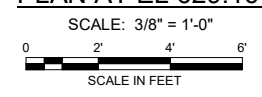


FOUNDATION ISOMETRIC VIEW
SCALE: NO SCALE



- NOTES:**
1. COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON STATIONING AND FLOW ELEVATIONS OF PIPES.
 2. SEE "TU" DRAWINGS FOR TEMP SHAFT SUPPORT SYSTEM AND TUNNELS
 3. POLYMER CONCRETE RISER SECTIONS SHALL BE DESIGNED BY APPROVED POLYMER CONCRETE MANUFACTURER ENGAGED BY CONTRACTOR. REFER TO SPEC SECTION SS 02600 FOR ADDITIONAL INFORMATION.

**SHAFT #3 (MERRY OAKS SHAFT) - LOWER LEVEL
PLAN AT EL 629.16'**



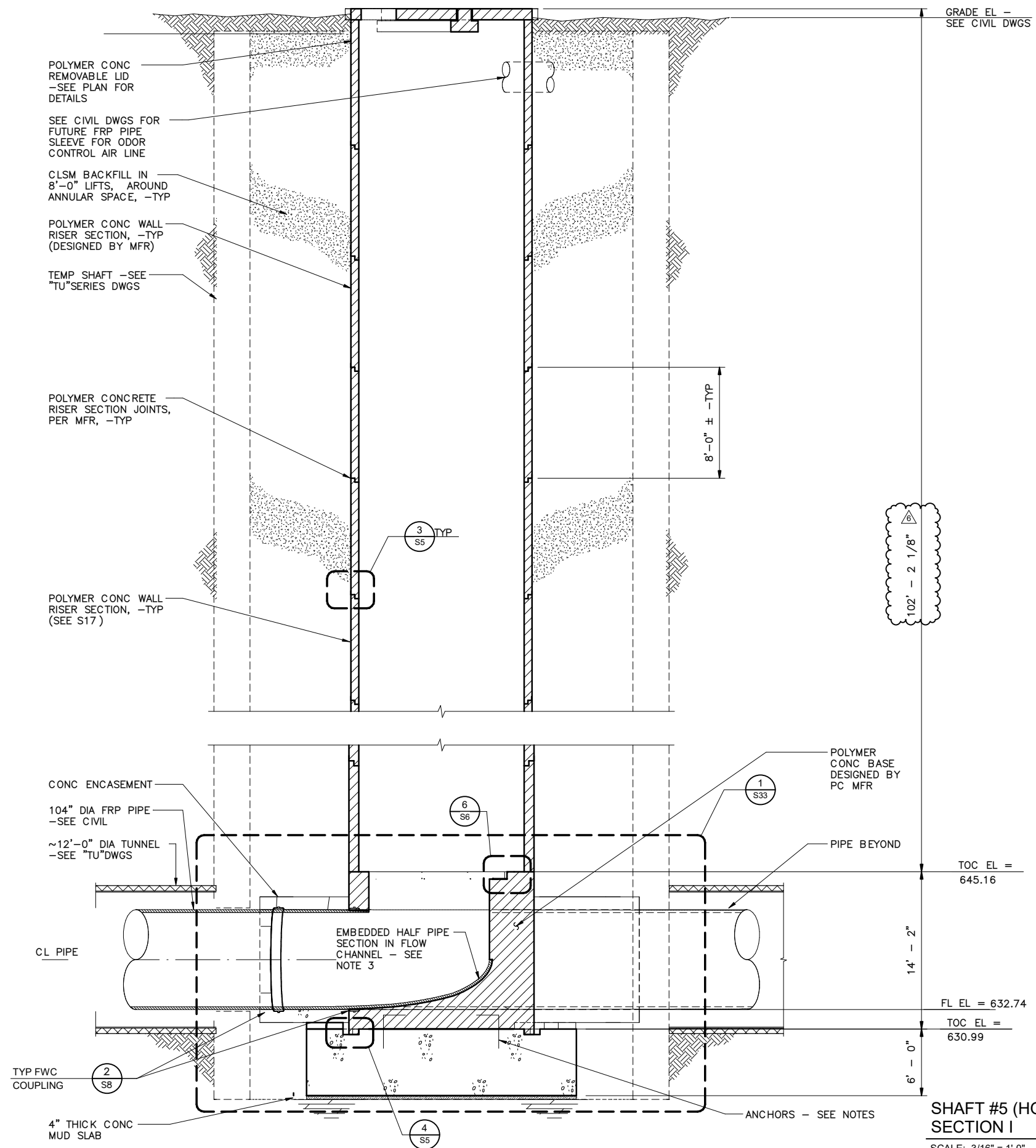
	<p>IQ INFRASTRUCTURE, LLC 400 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207 972.392.7340 IQIENG.COM PROJECT NO: 4190055 TBP# FIRM F-7986</p>	

No.	Revision	By	Date
6	ADDENDUM NO 6	MKK	04/10/20

	<p>W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR</p>	
	<p>SHAFT #3 (MERRY OAKS SHAFT) - LOWER LEVEL PLAN AT EL 629.16'</p>	

<p>THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).</p>	DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET NO. S17
	DESIGN: CD	KHA PROJECT NO.	
	DRAWN: LAS	068665052	
	CHECKED: MK		

PLOTTED BY: [Name] DWG NAME: [Name] DATE: 4/20/20 11:01:17 AM



GRADE EL -
SEE CIVIL DWGS

POLYMER CONC
REMOVABLE LID
-SEE PLAN FOR
DETAILS

SEE CIVIL DWGS FOR
FUTURE FRP PIPE
SLEEVE FOR ODOR
CONTROL AIR LINE

CLSM BACKFILL IN
8'-0" LIFTS, AROUND
ANNULAR SPACE, -TYP

POLYMER CONC WALL
RISER SECTION, -TYP
(DESIGNED BY MFR)

TEMP SHAFT -SEE
"TU"SERIES DWGS

POLYMER CONCRETE
RISER SECTION JOINTS,
PER MFR, -TYP

POLYMER CONC WALL
RISER SECTION, -TYP
(SEE S17)

CONC ENCASEMENT

104" DIA FRP PIPE
-SEE CIVIL

~12'-0" DIA TUNNEL
-SEE "TU"DWGS

CL PIPE

EMBEDDED HALF PIPE
SECTION IN FLOW
CHANNEL - SEE
NOTE 3

TYP FWC
COUPLING

4" THICK CONC
MUD SLAB

POLYMER
CONC BASE
DESIGNED BY
PC MFR

PIPE BEYOND

ANCHORS - SEE NOTES

102' - 2 1/8"

TOC EL =
645.16

FL EL = 632.74

TOC EL =
630.99

**SHAFT #5 (HOTEL SHAFT) -
SECTION I**

SCALE: 3/16" = 1'-0"

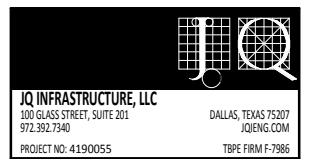
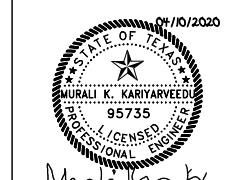


NOTES:

1. INDIVIDUAL POLYMER CONCRETE PIECES/SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.
2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE.
3. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO



PLOTTED BY: JQI
 DWG NAME: S32
 DATE: 04/10/2020



No.	Revision	By	Date
△	ADDENDUM NO 1	MKK	03/06/20
△	ADDENDUM NO 6	MKK	04/10/20

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR**

**SHAFT #5 (HOTEL SHAFT) -
SECTION I**

**SAN ANTONIO
WATER
SYSTEM**

DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET NO. S32
DESIGN: CD	KHA PROJECT NO.	
DRAWN: LAS	068665052	
CHECKED: MK		

THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).
0" 1" BAR IS ONE INCH ON FULL SIZE DRAWING.