



West Bexar County Monitor Well No. 2 Plugging
Solicitation Number: B-18-013-FF
Job No.: 18-0121

ADDENDUM 2
August 20, 2018

To Bidder of Record:

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

CHANGES TO THE SPECIFICATIONS

1. Supplemental Conditions

Insert the following:

Remove Article V. Section 5.18 of the General Conditions and replace with the following:

5.18 WORKING HOURS. Work shall be permitted 24 hours a day 7 days a week to include holidays.

The remaining sections of Article V shall remain the same.

2. Section 02633 Well Plugging General, replace Section 02633 Well Plugging General in its entirety with the attached Section 02633 Well Plugging General.

3. Section 02634 Edward Well Plugging, Part 2 – Products, 2.02 Sealing Material, B. is hereby replaced with the following:

B. Additives: Additives may be mixed with the sealing material to expand the material. Additives shall be as follows:

1. Six (6) percent, by weight, bentonite.
2. All additives shall be approved prior to use by SAWS. The use of salt or brine as a method of increasing the mud weight during drilling will not be permitted under any circumstances during the construction of the well. Any materials proposed for controlling the flow must be reviewed and approved by SAWS, prior to use.

The remaining sections of Part 2 – Products shall remain the same.

4. Proposed Plan/Schedule. All references to Primavera or Microsoft Project within the Specifications are removed. These sections include the following:

- Supplemental Instructions to Bidders, Section 2. b.
- Section 5.13.5 of the General Conditions
- Section 01326 Progress Schedule, Part 1, Section 1.02 A.
- Section 01330 Submittals, Part 1, Section 1.09

RESPONSES TO QUESTIONS

Q1 Will perforations be required in well casing?

A1 No Perforations will be required.

Q2 Will construction water be available? If allowed can we capturing construction water from the well before plugging operation begins?

A2 Yes, from the Monitor well that was discussed at the site. This well is approximately 725 feet from Monitor Well No. 2 which is the subject of this project. There will be no need to meter the water produced from the well. Please see the attached aerial photo.

Q3 Please confirm the area of concrete that must be removed around well casing?

A3 Only the sealing block and the cement that slopes away from the sealing block.

Q4 The specs call for a gamma and caliper log to be ran just after mudding the well down. Will the contractor be allowed to run the log before mudding the well down? This process can be accomplished by installing a spool piece and split flange above the existing valving on the well head.

A4 Yes, so long as the contractor maintains control of the well.

Q5 In the past typically we utilize neat cement. Will cement with 6% gel be acceptable? Cement blended with gel is not returnable.

A5 See the above changes to the specifications. This use of bentonite is required and has been confirmed with the Edwards Aquifer Authority.

Q6 The base bid calls for cement to be sold per unit. Will the contractor be compensated for actual sacks pumped?

A6 SAW will compensate the contractor for the number of sacks of cement listed in the price proposal (5,800) and any additional amount over that amount if required at the unit cost proposed.

Q7 On a project of this caliber labor and equipment typically outweigh cement cost. Can an additional line item be added to the bid form allowing for the necessary labor and equipment needed to perform this scope of work? In the event an additional line item is not added for necessary labor and equipment to perform the scope of work the contractor is at risk of experiencing a significant loss if there is a deduct in the amount of sacks purchased.

A7 Contactor should include the labor and equipment cost into each sack of cement cost.

Q8 There was mention of a washout making a significant amount of flow just below the well casing. Typically we gravel 10 feet below the bottom of the casing, then set a cement plug. In the event the cement plug does not hold in this area and multiple cement plugs must be installed to seal this area off, will the contractor be compensated for additional time and equipment onsite? Can an additional line item be added to the bid form to allow for additional labor and equipment needed to complete this procedure on a per hour basis? Without an additional line item for labor and equipment needed to install multiple cement plugs the contractor is at risk of a experiencing a significant loss.

A8 There is an extra line item currently in the package for additional cement above the stated 5,800 sacks. The contractor should provide pricing per sack for additional cement which includes labor and equipment costs.

- Q9** In the event the contractor is in the process of plugging the well and the well decides to return artesian uncontrollably, who is responsible for all necessary cost for cleanup of mud, cement and gravel evacuated on the surface and all cost to mud the well back down and continue the process?
- A9** In this scenario the cost burden will be on the contractor. The contractor's responsibility is to maintain well control during the entire plugging process.
- Q10** Due to time restraints please confirm if resumes are required for all subcontractors with bid documents or can be delivered once project has been awarded?
- A10** Resumes for Key Personnel for the Key Subcontractor(s) shall be submitted with the proposal.
- Q11** Specs call out for providing corresponding Primavera or Microsoft Project (CPM milestone) schedule with bid documents. Will another format be acceptable with bid documents and allowing contractors to purchase required software once project has been awarded?
- A11** See the Changes to Specifications 4 in this Addendum No. 2 which deletes all references to Microsoft or Primavera developed schedule. The Contractor shall provide a general schedule of major project steps.
- Q12** Page SIR-4 item N. Request geophysical logging with bid documents. Are you requesting a description or plan in its place?
- A12** Yes, please provide a general plan of how the geophysical logging will be accomplished considering the fact that this is an artesian well. See A9 above
- Q13** Respondent's proposal checklist makes reference to Statement on President's Executive Orders – Page IB 6 or 7. This page is not within the bid documents. Will this be sent out in addendum?
- A13** Respondents should print page IR-8, which includes the Statement on President's Executive Orders, and check the appropriate box on the proposal check list. This page should be submitted along with the bid documents.
- Q14** Specs call out for a drilling rig to perform scope of work. Due to site conditions will an oversized crane or well service rig be acceptable to perform plugging operations?
- A14** Yes, in lieu of the requirement for a Drilling rig, the Contractor shall determine and utilize the appropriate equipment to complete the job with approval by SAWS. See Changes to Specifications 2 in this Addendum No. 2.
- Q15** Are there any obstructions within well bore that will require a drilling rig to remove obstruction? A camera survey was provided of the well bore. When was camera survey completed?
- A15** The obstruction does not need to be removed. Camera survey was done 10/4/06.
- Q16** This scope of work falls under pump installer or driller capabilities. Per the specs a driller must be onsite at all times to oversee plugging operations. Is it acceptable to have a pump installer onsite to oversee operations?
- A16** Yes, a pump installer or driller must be present for this plugging operation. See the attached Section 02633 Well Plugging, General, Part 1 – General 1.01 A.3.
- Q17** Can we fill the pit surrounding the well head to gain access and stability for equipment and remove after completion of project will it need to be removed or can it remain in place?
- A17** Yes, the pit around the well head can be filled in but materials must be clean fill materials brought in from off-site and may remain in place.
- Q18** Can monitor well be used for water supply during completion of project?

A18 Yes the monitor well can be used for a water supply, it is located approximately 725 feet away from the Monitor Well No. 2 which is the subject of this project.

Q19 Is 24 hour operation approved?

A19 Yes, 24 hour operations are authorized as detailed in the above Changes to the Specification 1.

Q20 If water is released is it within TCEQ parameters to go on ground or must be contained / should we have fresh analysis done of water?

A20 The water from the well does not have any contaminates that would prevent the contractor from discharging the water. No, the contractor does not need to perform any analysis on the water.

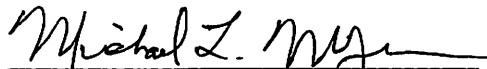
Q21 Can we get our subcontractor for the earth work around the well access to the site to estimate that portion of the project? If so, who can he contact?

A21 Yes, SAWS has added an opportunity for a second site visit. See Addendum No. 1.

END OF ADDENDUM

This Addendum, including these Four (4) pages, is Eleven (11) pages with attachments in its entirety.

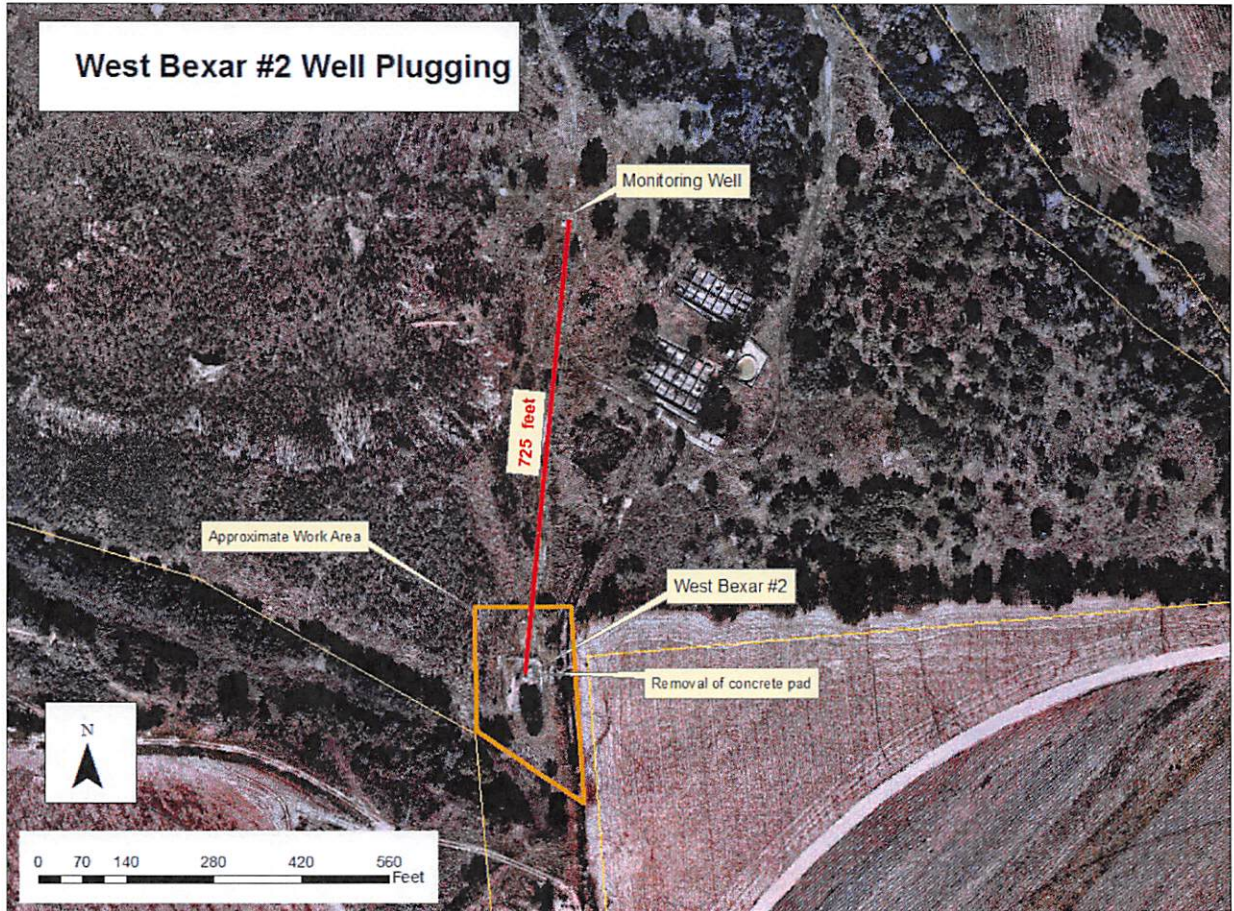
Attachments: Work Site Map
Section 02633 Well Plugging General


Michael L. Myers, P.E.
San Antonio Water System
(SEAL)



8/20/18

Work Site Map



SECTION 02633

WELL PLUGGING, GENERAL

PART 1 – GENERAL

1.01 THE REQUIREMENT

A. General Qualifications:

1. The work shall be performed under the supervision of a Water Well Driller or Pump Installer licensed by the Texas Department of Licensing and Registration (TDLR). This licensed Water Well Driller/Pump Installer shall have been continuously employed by the CONTRACTOR for a period of not less than two (2) years immediately preceding the Notice to Proceed for this contract and must have experience in plugging artesian wells in Section 1.01.A.2. This Texas-licensed Water Well Driller/Pump Installer will be available to supervise the completion of all phases of the well plugging under this contract.
2. The CONTRACTOR will be required to demonstrate experience in plugging flowing artesian wells in the last ten (10) years.
3. The CONTRACTOR will be required to demonstrate that he can provide and maintain the equipment required for the well plugging operation. If the CONTRACTOR's equipment is not capable of satisfactorily performing the work provided for in these specifications, the CONTRACTOR at his own expense shall substitute equipment approved by SAWS. All work shall be completed in full compliance with all state and local rules and regulations.

B. Sound Proofing: NOT USED

C. Conductor Casing: NOT USED

D. Rejection and Remedy: NOT USED

1.02 RELATED WORK SPECIFIED ELSEWHERE - NOT USED

1.03 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

A. Codes: All codes, as referenced herein, are specified in Section 01090, Reference Standards." Without limiting the generality of other requirements of these specifications, all work specified herein shall conform to or exceed the requirements of the applicable codes and standards relating to the referenced portions of the following documents only to the extent that the requirements therein are not in conflict with the provisions of this section. Where such documents have been adopted as a code or ordinance by the public agency having jurisdiction, such code or ordinance shall take precedence.

B. State/Local Standards:

TCEQ Rules Title 30, Chapter 290, Subchapter D
Rules and Regulations for Public Water Systems

Title 30, Chapter 290, Subchapter F
Drinking Water Standards Governing Drinking Water Quality and
Reporting Requirements for Public Water Systems

Title 30, Chapter 238
Water Well Drillers Rules

Title 30, Chapter 340
Licensing Requirements and Compliant Procedures for Water
Well Drillers and Pump Installers

Edwards Aquifer Authority Rules
Chapter 713

C. Commercial Standards:

ANSI/ASTM A 139 Specification for Electric-Fusion (Arc)-Welded Steel
Pipe (sizes 4 inches and over)

ANSI/AWS D1.1 Structural Welding Code - Steel

AWS D10.9 Piping and Tubing ANSI/AWWA

C654 Disinfection of Wells

API 5L Specification for Line Pipe

API Spec. 10D Specification for Bow-Spring Casing Centralizers

ASTM A 53 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-
Coated Welded and Seamless/Specification for Line Pipe

ASTM A 312 Specification for Seamless and Welded Austenitic
Stainless Steel Pipes

ASTM C 150 Specification for Portland Cement

ASTM A606-04 Standard Specification for Steel, Sheet and Strip, High-
Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, with
Improved Atmospheric Corrosion Resistance

ASTM D5434-03 Standard Guide for Field Logging of Subsurface
Explorations of Soil and Rock

ASTM C136-01 Standard Test Method for Sieve Analysis of Fine and

Coarse Aggregates

ASTM D4541-02	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
AWWA A100-97	Standard for Water Wells
AWWA C206	Field Welding of Steel Water Pipe
AWWA C210-03	Liquid Epoxy Coatings for Interior and Exterior of Steel Water Pipelines
AWWA C213-01	Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines
ASME	Section IX, Article II of the Boiler and Pressure Vessel Code
AWS	American Welding Society Codes and Standards
AISI	American Iron and Steel Institute

1.04 CONTRACTOR SUBMITTALS

- A. **General:** All CONTRACTOR submittals shall conform to the applicable requirements of Section 01330, Submittals and the supplementary requirements specified. All measurements for depths shall be referenced to existing pad level or ground surface at each well site. All CONTRACTOR submittals shall be made electronically, as applicable in a format specified by SAWS.
- B. **Employee Roster:** - NOT REQUIRED
- C. **Licenses:** The CONTRACTOR shall submit a copy of the Texas Water Well Driller's or Pump Installer's License for the Field Superintendent to SAWS. Additionally, the CONTRACTOR shall submit copies of licenses for all other personnel working on the project that possess a designation as a Texas Water Well Driller or Pump Installer's Apprentice.
- D. **Equipment List:** The CONTRACTOR shall submit a list of the equipment proposed on the project. The list shall include manufacturer's load capacities, horsepower, year of manufacture, year of purchase by the present owner, and any other pertinent information as requested by SAWS.
- E. **Material and Supplier's List:** The CONTRACTOR shall submit a complete list of all proposed vendors and suppliers, along with corresponding material specifications to be used in the work.
- F. **Subcontractor's List:** The CONTRACTOR shall submit a complete list of all proposed subcontractors to be used in the completion of the work. The

CONTRACTOR may be required to submit additional information or a resume of qualifications for any of the subcontractors proposed.

- G. Welders: Prior to the start of work, the CONTRACTOR shall submit a list of the welders proposed for use during well construction, and the type of welding for which each has been qualified, along with current certification documents for each welder listed. The welders shall be AWE-Certified for the welding of all materials specified in the plans and specifications.
- H. Welding Procedures: The CONTRACTOR shall submit to SAWS proposed procedure specifications and qualification records for welding activities for all pipe and casing welding to be performed under this section, in accordance with Section IX, Article II of the ASME Boiler and Pressure Vessel Code. Documentation shall be submitted to SAWS no less than 5 working days prior to the proposed welding activity.
- I. Daily Log: The CONTRACTOR shall maintain a detailed daily log of events for his activities during well construction, well development, pump testing and for other work performed by subcontractors. The information shall be recorded on Daily Drilling Report forms for the drilling rig in operation, well development activities, and pump testing. The daily logs shall be submitted to SAWS electronically on a **daily basis**. Failure to keep this log up to date on a daily basis shall be grounds for SAWS to stop drilling operations. No standby time will be paid. The report forms should include the following information: drilling mud and additives, gravelling operations and cementing operations. In addition, information relative to maintenance and repair time, details of repair, presence of CONTRACTOR'S personnel and subcontractor, and other pertinent information shall be included. Legible forms covering the previous day suitable for photocopying shall be submitted to SAWS on a daily basis.
- J. Mill Certificates: NOT USED
- K. Physical and Personnel Security Plan: NOT USED
- L. Geological Samples: NOT USED
- M. Geophysical Logging Plan: Only a geophysical logging firm approved by SAWS shall record these logs and those companies are Schlumberger, Baker Atlas, GeoCam, or approved equal for the Edwards monitor well. A minimum of six (6) field hard copies of each log presentation and one electronic copy of each log presentation shall be provided to SAWS while in the field and electronic copy in ASCII and .LAS formats on a CD-ROM shall be provided to SAWS for reporting and filing purposes within 10 days of logging. Additionally, if the geophysical logging subcontractor is able to supply electronic log copies using that subcontractor's proprietary log viewer, that data shall also be recorded on CD-ROM. Borehole geophysical logging shall commence as soon as practical after artesian flow in the well has been stopped or through the use of a lubricator to reach total depth (T.D.) of the well.

- N. Calibration Data: Calibration records for each measuring instrument used in the construction of the well shall be submitted to SAWS for review prior to the installation or use of the instruments. The calibration records shall contain the following information:
1. Flow meter calibration sheet: - NOT USED
 2. Orifice plate calibration certification: - NOT USED
- O. Dielectric Coupling Design: NOT USED
- P. Operations: The CONTRACTOR shall submit for SAWS's plans for plugging the well. These plans shall include the following information:
1. Mud Plan to Eliminate Artesian Flow in the Well: The CONTRACTOR shall submit a plan for the placement of drilling mud to eliminate artesian flow in the well. The plan shall include the type mud, mud additives, volumes, method of installation, and contingency plans if the artesian flow fails to be eliminated. All mud shall be new, mixed on-site and hydrated with potable water.
 2. Gravel Installation Plan: The CONTRACTOR shall submit a plan for the placement of gravel in the well.
 3. Cementing Plan: The CONTRACTOR shall submit a plan for the placement of cement in the well for each interval to be cemented. The plan should provide detail on the pre-flush and spacer, composition of cement to be used in each interval, volume to be pumped, method of emplacement of cement, expected fill-up, expected pressures, and any additives to be used.
 4. Casing/ Screen Installation: NOT USED
 5. Cementing Log: Cementing service contractor shall submit two (2) graphical logs to SAWS detailing the cementing process, including such data as cement pressure and volume.
- Q. Plumbness/Alignment/Caliper Surveys: NOT USED
- R. Development and Test Records: NOT USED
- S. Permits: The CONTRACTOR shall apply for and obtain all necessary plugging and testing permits with local and state regulatory agencies, including Edwards Aquifer Authority.
- T. Final Description: NOT USED
- U. Records Required by Law: The CONTRACTOR shall maintain all records required by governmental agencies having jurisdiction, and shall submit such records to them as may be required. Two copies of all such material shall also be furnished to SAWS.
- V. Resumes: Resumes of key personnel will be submitted to SAWS with the bid proposal.
- W. Record Drawings: NOT USED

- X. Completion Report Required: A water well plugging completion report (Well Report) must be filed with the Texas Department of Licensing and Regulation within 30 days of well completion. Material to be included in this report is outlined in Texas Administrative Code Section 290.41 (c) (3)(A), (B), (C), and (G) of the rules.
- Y. Drilling Waste Disposal: The CONTRACTOR shall provide SAWS with notification of drilling waste disposal location off of the San Antonio River Authority's property as accepted by the local regulatory agency.
- Z. Safety Plan: The CONTRACTOR shall provide SAWS with a safety plan.
- AA. Erosion and Sedimentation Control Plan: The CONTRACTOR shall provide SAWS with an erosion plan indicating the locations, dimensions, construction methods, and site restoration methods to be used. The erosion and sedimentation control plan will be reviewed by SAWS. This plan shall conform to SAWS and State requirements, as applicable.
- BB. Driller's Recommended Screen Design: NOT USED
- CC. Project Schedule: - NOT USED

1.05 QUALITY ASSURANCE