

Broadband Access Points and Programmable Logic Controllers Replacement – Phase 4

Lee Bausinger, PE

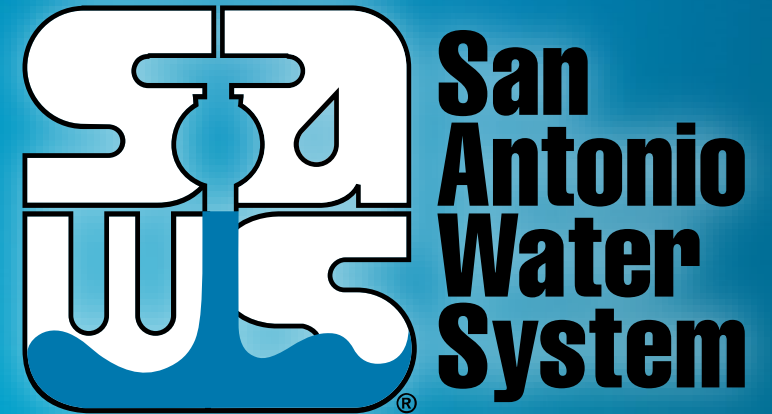
Project Engineer, SAWS

Roxanne Lockhart

Contract Administrator, SAWS

Marisol V. Robles

SMWVB Program Manager



Pre-Submittal Conference

September 17, 2021

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Oral Statements

Oral statements or discussion during this Pre-Submittal Meeting will not be binding, nor will they change or affect the RFQ or the terms or conditions of the contract. Changes, if any will be addressed in writing only via an Addendum.

RFQ Objective

The San Antonio Water System (SAWS) is pursuing Requests for Qualifications (RFQ) for professional engineering services for the **Broadband Access Points & Programmable Logic Controllers Replacement – Phase 4 Project**

- To procure professional engineering services which will require work to be performed by qualified professional engineering firms
- Selected firms shall provide project management and engineering services including planning, estimating, scheduling, engineering evaluations & studies, preliminary engineering reports, design, bid, and construction phase services and inspections
- Projects to be managed, designed, and constructed with highest regard for cost, schedule, and quality

Additional Requirements

- Project shall be designed by licensed Professional Engineer(s) in the State of Texas
- Any management or team change during the execution of the project shall not have any effect on the progress, budget and schedule of the projects. SAWS reserves the right to approve personnel changes
- Project shall be managed through SAWS Contract and Project Management System (CPMS)

Aspirational SMWVB Goal

Industry	Aspirational SMWB Goal	Description
Engineering and Other Professional Services	40%*	Points assessed on tiered scale

SMWVB Requirements

- SMWVB Eligibility:
 - Certification from the South Central Texas Regional Certification Agency or Texas H.U.B.
 - Small Business Enterprise (SBE) at minimum. Minority Business Enterprises (MBEs) and Woman-owned Business Enterprises (WBEs) must also be SBEs
 - **Local Office**
- RFQ Scoring:
 - Up to 15 Points, scored on a tiered scale

Post Award: Subcontractor Payment & Utilization Reporting (S.P.U.R.) System

WWW.SAWS.SMWBE.COM

- Payment reporting for all subconsultants
- Organizational chart must match the Good Faith Effort Plan for consistent reporting
- Changes to team can be requested through the S.P.U.R. System
- Training and support provided by SAWS SMWVB office



San Antonio Water System

OUR MAIN SITE CONTACT SUPPORT

Subcontractor Payment & Utilization Reporting System

Log In

System Training
Learn how to fully utilize our system with a live trainer
Training

About the System
Learn more about this system and how it works today
Information for Vendors

Account Access
Lookup Vendor accounts or reset user passwords
Account Lookup
Forgot Password

The Subcontractor Payment & Utilization Reporting System is powered by B2Gnow Software © Copyright 2018.

SMWVB Questions

- Questions related to the SMWVB Program, the Good Faith Effort Plan (GFEP), or finding certified subconsultants may be directed to the SMWVB Program Manager until the RFQ is due

Marisol V. Robles

Email:

Marisol.Robles@saws.org

Communication Reminders

- No communication regarding the RFQ with the following:
 - SAWS Project Manager
 - Any other SAWS staff, managers, directors or VPs
 - City Council member or staff
 - SAWS Board of Trustees
- No phone calls, emails, letters, direct/indirect discussion of the RFQ
 - If submitting for the RFQ and/or doing work for SAWS, indicate this when speaking with SAWS staff, but refrain from discussing the RFQ
- From release of the RFQ to Board Award

Selection Process

- SOQs reviewed for responsiveness
- Technical Evaluation Committee scores qualification statements based on evaluation criteria published in the RFQ
- Interviews held, if necessary
- Selection Committee reviews scores and recommends firm
- Good Faith Effort Plan will be evaluated and scored
- Negotiation with selected consultant
- Board Award

Selection Process

- If there is a change to key team members (prime or subconsultant) on Respondent's organizational chart, notify SAWS in writing as soon as possible
 - SAWS may allow Respondent to replace the key team member with an alternate member who possesses equal or better qualifications and experience
- Per SAWS' Ethics Policy, a former SAWS employee may not serve in a lead role as a key team member and/or participate in the negotiation of a contract for two (2) years after separating from SAWS
 - This may result in the Respondent's proposal being found non-responsive or a reduction in points during the evaluation

RFQ Schedule

Questions Due
Sep 20
2:00 PM (CST)

SOQs Due
Oct 4 by 2:00 PM
(CST)

**Notification
of Selection**
Dec 2021

**Project
Notice to
Proceed**
Dec 2021



**Answers
Posted by
SAWS**
Sep 21 by
2:00 PM
(CST)

**Interview
with
Consultants
(if necessary)**
Oct/Nov 2021

**SAWS
Board
Approval**
Dec 7, 2021

Addendum

- Register as a vendor with SAWS Vendor Registration and Notification
- More than one (1) Addendum may be posted
- Addendums are acknowledged on the Respondent Questionnaire
- Check SAWS website often and prior to submitting your proposal

Submitting a Response

- Only electronic submittals will be accepted
 - If a hard copy is submitted, it will not be accepted
- Include all pages
- Reference the RFQ document section IV. Submitting a Response for detailed instructions to prepare the proposal and to determine what additional items are required
- Page limit of sixteen (16) pages per proposal, not including required documents

Submitting a Response

Helpful Reminders

- Thoroughly read the RFQ document prior to submitting your proposal
- Maximize points by addressing all items in the order they are identified in the RFQ
- Be specific; avoid “boiler plate” and “generic” responses
- Utilize the Submittal Response Checklist
- Contact the SMWVB Program Manager for assistance, if necessary
- Perform a thorough QA/QC on your proposal prior to submitting

Submittal Deadline

- Submittal deadline is **Oct 4, 2021 at 2:00 P.M.** local time
- Only Electronic Submittals Accepted
- Address a PDF of your submittal to contracting@saws.org
- Entitle the subject line of the submission email with “PS-00116 – Broadband Access Points & Programmable Logic Controllers Replacement – Phase 4 Project” and name of Respondent
- The file size limitation for submission is **10MB**
- Only one (1) file with all required response information shall be submitted
- Late responses will not be accepted, and will be returned

Evaluation Criteria

Evaluation Criteria	Max Points
Team Experience and Qualifications	30
Similar Projects and Past Performance	30
Project Understanding and Approach	25
Small, Minority and Women, and Veteran-Owned Business (SMWVVB) participation (Exhibit “B” Good Faith Effort Plan)	15
Total	100

Team Experience and Qualifications (Attachment II)

- Provide 1-page resumes for each proposed Key Personnel, including:
 - Name, title, education
 - Description of professional qualifications (to include licenses, certifications, and associations)
 - # of years with current firm and total # of years of professional experience
 - Brief overview of professional experience and expertise
 - Identify four (4) similar projects completed in the past ten (10) years. Clearly identify the projects listed are with the current firm or part of the individual's professional experience. Identify role served by Key Personnel on these projects
 - Provide a list of all active projects each of the Key Personnel is currently assigned to for the duration of the Project, to include the phase and percentage of time allocated to each of the projects listed

Team Experience and Qualifications (Attachment II)

- Describe the composition of the team (Prime, Key Subconsultants, and other Subconsultants), role and responsibility of proposed team members and teaming history
- If proposed staff is not part of the proposed Key Personnel, please identify lead person from each firm and briefly describe their role
- Illustrate in a table matrix the availability, percent of time committed to the Project for the duration of the project, of Respondent's Key Personnel, as well as Key Personnel from Key Subconsultants. Include geographic location for each resource identified in the table

Similar Projects and Past Performance (Attachment II)

- Provide four (4) completed projects in the last ten (10) years in which Respondent has performed services similar to those sought in this RFQ
- The proposed PM shall have participated in at least two (2) of the four (4) projects. Other Key Personnel shall have participated in at least two (2) of the four (4) projects
- Project references, at a minimum, shall include:
 - Names of clients and location (city/state)
 - Reference contact to include names, titles, emails and current phone numbers
 - Corresponding year and duration of the projects (contract NTP and completion date)
 - Detailed description of the projects (include specific aspects that Respondents wants considered in the evaluation)
 - Provide an explanation for why each project is similar to the Project included in this RFQ
 - Respondent's role and Key Personnel's responsibilities in these projects including the Sub-consultants

Similar Projects and Past Performance (Attachment II)

- Provide cost information for the four (4) completed projects submitted as part of bullet (I) above and one (1) additional similar completed projects, as it relates to the accuracy of the OPCC, comparing the Engineer's 100% design estimate to approved construction contract awards

Project Approach and Understanding (Attachment II)

- Provide a detailed approach explaining how your firm would technically execute and complete the services sought in this RFQ on time and within budget. Provide innovative approaches, ideas and recommendations
- Provide responses to the following:
 - Identify key project challenges and risks and describe your proposed approach for addressing those items during the design phase of the project
 - Describe your approach for coordinating with regulatory and permitting agencies to ensure buy-in and approval
 - Describe your team's familiarity with SAWWS facilities and infrastructure
 - Describe Respondent's approach to becoming familiar with local and regional market conditions influencing the design and construction decisions that will affect the cost
 - Understanding of Project related issues and difficulties (design and construction) and solutions proposed
 - Understanding of coordination requirements with the involved entities, responsiveness and follow through
 - Team approach to preparing deliverables to meet deadlines associated with fast-track SAWWS requests without compromising the quality of deliverables and Project schedule. Discuss Respondent's schedule recovery approach relative to schedule maintenance

Project Approach and Understanding (Attachment II)

- Project specific and unique quality control/quality assurance (QA/QC) and risk management strategies that Respondent implements
 - Describe how the accuracy and completeness of the OPCCs are derived for each design phase, and the Respondent's familiarity with AACE's Recommended Practices 17R-97 and 56R-08
 - Describe what support will be provided in the case bid results are $\pm 25\%$ apart from Respondent's estimate
 - Describe how the independent QA/QC team will review project deliverables to ensure the Project is of high quality and biddable, permittable, constructible, operable, maintainable, and cost-effective
 - Describe how Respondent will ensure work products from sub-consultants are of high quality and in compliance with existing rules and regulations as well as SAWS expectations

Respondent Questions

Must be submitted in writing via e-mail no later than September 20, 2021 by 2:00 pm to:

Roxanne Lockhart

Contract Administration Department

San Antonio Water System

Roxanne.Lockhart@saws.org

Scope of Work – Broadband Phase 4

- The Project includes the continued build-out and interface of a broadband radio system with the SAWS communications network. The system will provide secure and reliable communications and will allow for the continued monitoring and controlling of equipment at various SAWS facilities; and replace of programmable logic controllers (PLCs) at various production facilities not covered under previous phases of this ongoing effort
- Typical Production facilities include well sites, primary, secondary, and booster pump stations, elevated and ground storage tanks, and other sites not included in previous phases of this ongoing effort

Scope of Work – Broadband Phase 4

- Standardization of communication and control equipment across SAWS to improve reliability and accuracy of data transmission
- Replacement of programmable logic controllers (PLCs) for approximately thirty-one (31) separate locations
- Evaluation of the current radio broadband communication system for the purpose of optimizing this system to provide secure and reliable communications for approximately twenty (20) existing sites
- Seven (7) new towers are anticipated for this phase. Some sites allow for use of onsite tanks for mounting of antenna equipment and are to be evaluated for suitability as a substitute for a tower where possible

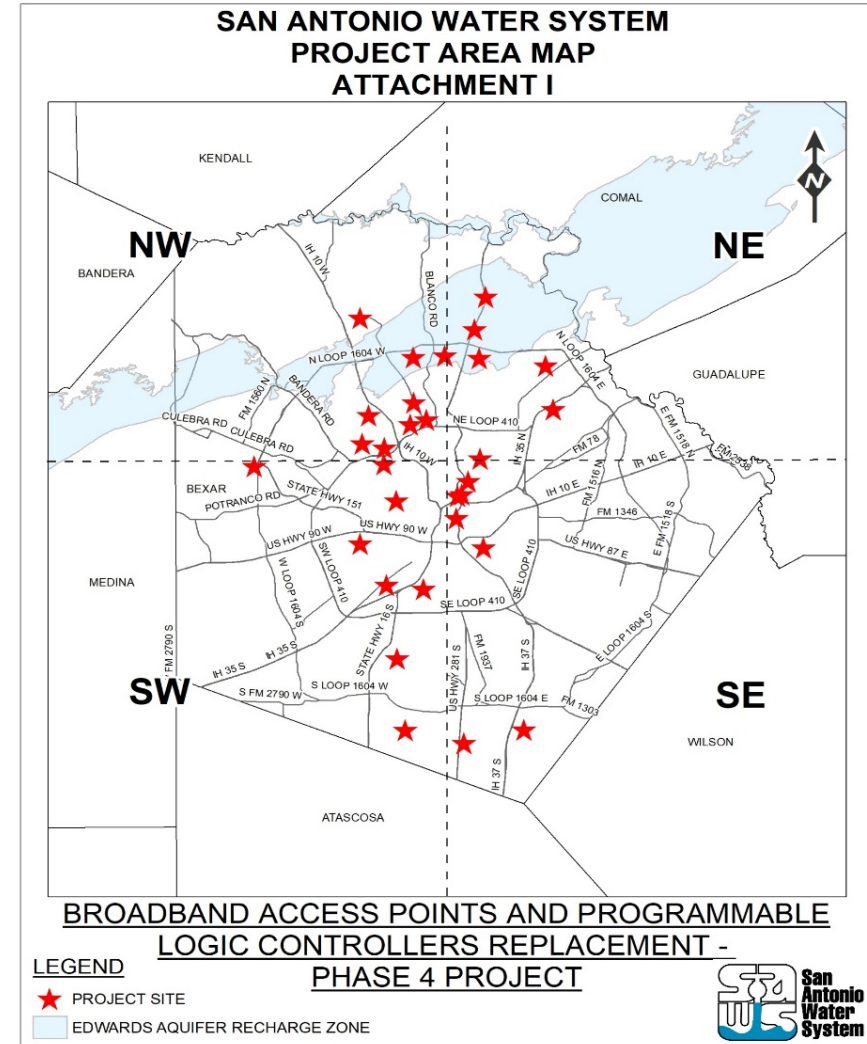
Scope of Work – Broadband Phase 4

- Replacing the radio communication system with a communication infrastructure that includes high speed, Ethernet IP radios, antennas, and backup power including emergency generators and/or uninterruptible power supplies
- Field work as necessary for radio path studies and verification of acceptable signal strength
- Removal of outdated equipment
- Other work as necessary to support this effort from design through installation and commissioning of equipment

Scope of Work – Site list

- Austin Tank
- Brackenridge RW Pump Station
- Broadview
- Callaghan Tank
- Convention Center
- Dreamhill
- Fleetwood
- Forestcrest Booster
- Fredericksburg Tank
- General McMullen
- General McMullen Ruiz Tank
- Golden (BM016)
- Growden
- Hickory Hollow
- Highlands Tank
- Hutchins
- Inspiration Tank
- Inwood
- James Park
- Josephine
- Judson BSTR
- Lockhill Tank
- Marshall Tank- Winchester
- Menger Tank
- Pipestone
- Redland
- Stotzer Tank
- Toyota N. Gate
- Tuleta RW Dechlor Outfall
- Waterwood
- Wayland
- West Ave.

Scope of Work – Map view



Scope of Work – Broadband Phase 4

Equipment examples



**Production Site –
Typical Radio Panel**



**Production Site –
Typical SCADA Panel**

Design Considerations

- Contract Documents – Quality and attention to detail
- Adherence to implementation schedule
- Coordination and feedback – SAWS end users
- Site visits, as many as needed
- RFP/CO cost estimates shall be using RS Means where applicable
- Design review workshops and walk-throughs
- Coordination with other agencies (e.g., CoSA, TxDOT, USACE, TCEQ, Bexar County, CPS Energy, etc.) where necessary

Cost Estimates – Design Phase

Consultant to develop Engineer’s Opinion of Probable Construction Costs (OPCC) for each design phase as per recommendations of AACE International as described in Recommended Practices No. I7R-97 and 56R-08

Design Phase	Estimate Class	Expected Accuracy Range
30% Design	Class 3	L: -5% to -15% H: +10% to +20%
60% Design	Class 2	L: -5% to -10% H: +5% to +15%
90% Design	Class 1	L: -3% to -5% H: +3% to +10%
100% Design & Bid Documents	Class 1	L: -3% to -5% H: +3% to +10%

Project Funding

SAWS Estimated Total Project Costs

- Construction: \$5,000,000

Planned Construction Award

- CIP Funding - Construction: 2023

QUESTIONS?

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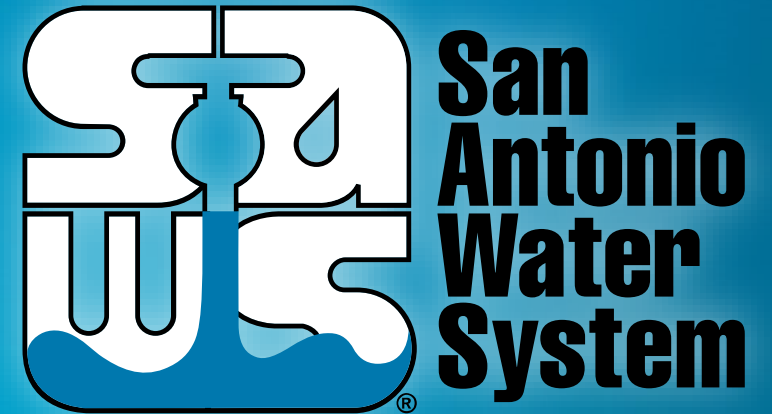
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