

**ALLEGHENY COUNTY SANITARY AUTHORITY (ALCOSAN)**

**REQUEST FOR QUALIFICATIONS  
for  
PROFESSIONAL SERVICES  
ALLEGHENY RIVER TUNNEL FINAL DESIGN  
PROJECT S-490**

**February 14, 2024**

**1.0 Background**

The Allegheny County Sanitary Authority (ALCOSAN or Owner) entered into a Consent Decree on January 24, 2008, with the U.S. EPA, Pennsylvania DEP and the Allegheny County Health Department to address Combined Sewer Overflows. A Modified Consent Decree was approved on May 14, 2020, to replace the 2008 Consent Decree. Copies of these documents are available via ALCOSAN’s Website at the following location: <https://www.alcosan.org/our-plan/plan-documents>.

ALCOSAN contracted with a professional engineering firm in 2017 to perform Preliminary Planning for the regional tunnel system. Work undertaken in the program consisted of tunnel sizing and layout, surface structure configuration and layout, geotechnical investigation, hydraulic and surge analysis, and costing. The deliverable from this process is the Preliminary Basis of Design Report (BODR), which is available (electronically) under this Request for Qualifications upon request to the Procurement Officer. The Geotechnical Field Manual and Survey Recommendation Reports are also available upon request to the Procurement Officer.

Please note, the Tunnel Program Manager (Jacobs Engineering) and the Clean Water Program Director (CDM Smith) are precluded from submitting as a prime or subconsultant under this procurement. Subconsultants to these teams shall be considered on an individual basis, based upon scope of work.

**2.0 INTRODUCTION**

ALCOSAN is soliciting Letters of Interest and Statements of Qualification (collectively, “Submittals”) from Professional Engineering firms to perform the Allegheny River Tunnel (ART) Final Design Consulting (FDC) Services. The project will build upon the work performed by the Preliminary Planning team, as well as other work completed to date on the Ohio River Tunnel (ORT) and ART-Near Surface Package 6 (ART-NSF6)<sup>1</sup>, to advance the ART and associated drop shafts, regulators, outfalls, and consolidation sewers to a final design.

---

<sup>1</sup> As defined in Section 16 of the BODR

The ART FDC will perform final design for the ART and the associated conveyance systems, excluding the near surface facilities associated with point of connections A-72 through A-78. The final designer will work closely with the Tunnel Program Manager Consultant (TPMC) and ART-NSF6 FDC to coordinate connections to the ORT, ART-NSF6 facilities at A-72, and future connection with the Monongahela River Tunnel (MRT).

The starting point for the ART designer will be the review of several Preliminary Planning reports and memoranda. The primary report is the BODR and drawings that represent approximately the 20% design stage, as approved by the regulatory agencies. Major changes to the BODR as of January 2024 are illustrated in the figure included at the end of this RFQ. Other elements and documents relevant to the prospective ART FDCs will be provided as part of the RFP process.

This request for qualifications document is intended to assist firms in preparing their Submittals for this project, specifically the final design of the ART and associated facilities. All Submittals that fail to conform to requirements set forth herein will not be considered by ALCOSAN.

### **3.0 COMMUNICATIONS REGARDING THE REQUEST FOR QUALIFICATIONS**

Questions and requests for clarification regarding this Request for Qualifications (“RFQ”) must be directed, in writing, to:

Suzanne Thomas  
Chief Procurement Officer  
Allegheny County Sanitary Authority  
3300 Preble Avenue  
Pittsburgh, PA 15233-1092  
Email: [procurement@alcosan.org](mailto:procurement@alcosan.org)

**Proposers should not contact other ALCOSAN employees regarding this procurement.**

Responses to all general questions and requests for clarification will be posted on ALCOSAN’s website. ALCOSAN will provide, in writing, any clarifications, changes and/or other information deemed to be necessary as addenda to this RFQ. ALCOSAN cannot guarantee responses to any questions received after 2:00 p.m. seven (7) business days prior to the submittal date.

An informational meeting will be held on-line via Microsoft Teams on February 29, at 2:00 p.m. All parties interested in attending the informational meeting shall send an email to the Procurement Officer no later than 4:00pm (EST) the day prior to the meeting. Please only register one person for each company. Companies may forward the invitation to their teams upon receipt. Once the list is compiled, ALCOSAN will email a Microsoft Teams meeting invite by 12:00 noon (EST) the date of the meeting. This meeting is not mandatory, but all interested parties are strongly encouraged to attend.

#### 4.0 OBJECTIVE

ALCOSAN proposes to retain a highly qualified firm to provide the services described herein. Firms and team members with significant experience in projects with similar characteristics will be given prime consideration for this project. Those firms that participate in this RFQ process will be referred to as “Proposers.” “Proposer” and its Subconsultants shall be referred to collectively as the “Team.” The successful Team shall be referred to as the ART Final Design Consultant.

#### 5.0 SCOPE OF SERVICES

Project Name: Allegheny River Tunnel Final Design  
No.: Project S-490  
Location: 3300 Preble Avenue, Pittsburgh, PA 15233  
Schedule: Late 2024 – Mid 2028 for design and bidding services (design services during approximately 6 years of construction and commissioning to follow and will be considered separately).

ALCOSAN anticipates the following, but is not limited to, these tasks and services:

##### Design Phase:

- Manage the design schedule to ensure Compliance Dates are achieved, notify Owner of any deviations, and supply the Owner with remedies to prevent penalties from missed milestones.
- Prepare biddable plans and specifications in accordance with Pennsylvania Municipal Authority procurement codes and regulations.
- Prepare and submit design products at the 30%, 60%, 90% and 100% stages of completion for review by ALCOSAN and the TPMC.
- Prepare and submit bottom-up cost estimates and construction schedules at the 30%, 60%, 90% and 100% stages of completion.
- Optimize tunnel alignment and layouts of near surface facilities including regulators, consolidation sewers, and drop shafts. Particular attention will need to be given to sites A-22, A-42, and A-68 due to current and anticipated site constraints.
- Enact a geotechnical investigation program in accordance with ALCOSAN’s Geotechnical Field Manual (GFM), building upon the previous geotechnical investigations conducted by others (including Preliminary Planning, ORT Final Design, and ART NSF6 Final Design) to supplement any areas needing further investigation. The

current GFM (*Version no. 3.3* dated January 2024) is available upon request electronically as part of this Request for Qualifications. *Note: Firm(s) providing geotechnical logging services shall not be direct employees of the firm(s) performing geotechnical investigation drilling services. Consultant shall include a minimum of two drilling companies on the project team to allow drilling activities to be shifted between drilling companies as needed to enhance scheduling. Once the consultant is awarded the ALCOSAN contract, the consultant shall obtain proposals including qualifications and pricing from the drilling companies included on the project team. The consultant shall review these proposals and select one or more drilling companies to complete the geotechnical investigation based on the company qualifications and proposal. Work can be distributed based on scope and availability of companies to complete the work in a timely manner.*

- Prepare a Geotechnical Data Report (GDR) and Geotechnical Baseline Report (GBR).
- Provide survey services for all designed facilities in accordance with the requirements in the TPMC Survey Recommendations for Final Design Consultants TM (Revision 3 dated August 2023; available upon request electronically as part of this Request for Qualifications). This includes tying into the ORT survey monuments (i.e., Monument-4, -4a).
- Provide field services to support final design packages including dye testing, field inspections, utility locating/coordination, condition assessments and line and level surveying of relevant infrastructure and tunnel survey monuments in the project area.
- Evaluate and recommend construction methods/technologies.
- Evaluate and recommend contract packaging of near surface facilities including consolidation sewers and regulators.
- Perform detailed hydraulic analysis (including Computational Fluid Dynamics) of relevant hydraulic structures, tunnel pneumatic and surge conditions; and evaluate odor release and management, sediment/grit assessments and other necessary modeling.
- Use and update Authority models to support final design. Deliver Design Models and relevant hydrologic and hydraulic calculations to ALCOSAN.
- Provide services of a qualified hydrogeologist with hydrogeological modeling capabilities to support evaluation of potential impacts of construction activities on potentially sensitive aquifers as needed.

- Design instrumentation and controls for the ART tunnel system (e.g., control of gates, capture of level and flow data). Integration of tunnel SCADA into the WWTP Distribution Control System (DCS) will be handled by ALCOSAN.
- Coordinate and work closely with the TPMC to ensure all connections to the tunnel are considered in ensuring the efficient delivery of the three tunnels.
- Identify and obtain all necessary permits.
- Identify required construction and permanent easements and work with the Property Acquisition Consultants to acquire any necessary property, including the development of all necessary survey exhibits.
- Advance and maintain the ART project-specific portion of the Programmatic Risk Register to manage risks including risks to schedule, cost and mitigation strategies to reduce or eliminate risk. Provide risk register updates and lead a risk workshop corresponding with each intermediate design deliverable phase.
- When required and directed by ALCOSAN, coordinate with internal and external stakeholders.
- Participate in contractor outreach activities as applicable.

Bidding Phase:

- Attend the pre-bid meeting and prepare minutes
- Respond to bidder questions
- Assist in the writing of addenda
- Assist in the evaluation of bids
- Prepare schedule of design and construction deliverables

Construction Phase:

- While not included in this Scope of Services, a potential contract extension to perform Design Services During Construction and Commissioning will be considered under a contract modification.

The following is an outline of the anticipated procurement schedule based on the information available at this time. The schedule is subject to change. The official project schedule will be included in the Service Authorization for this project.

- February 14, 2024 – Issue Request for Qualifications
- February 29, 2024 – Informational Meeting
- April 12, 2024 – Qualifications Due
- May 2024 – Shortlist / RFP Release

- July 2024 – Proposal submission due
- August 2024 – Interviews
- September 2024 – Contract Award
- October/November 2024 – Negotiate, Award Fee, Issue Notice to Proceed

## 6.0 EVALUATION OF QUALIFICATIONS SUBMITTALS/SELECTION PROCESS

The Consultant will be selected based upon the following process:

**Shortlist:** Once the deadline for the RFQ has lapsed, ALCOSAN’s Procurement Team shall review, discuss, and independently rank all Submittals. The Procurement Team will evaluate Submittals based upon the following criteria:

- Firm’s team history and resource capability to perform required services
- Evaluation of assigned personnel
- Representative experience for similar work
- Ability to meet schedule and project budget
- Familiarity with local area geography and facilities
- Local office within Allegheny County
- Ability to relate to project requirements
- MBE/WBE/SDV Participation

Based upon the evaluations of the Submittals, the Procurement Team will develop a shortlist of firms which will be presented to the ALCOSAN Professional Services Committee for approval. Only information provided in this Submittal regarding this RFQ will count toward the firm’s score.

**Request for Proposals:** Shortlisted firms will be emailed a Request for Proposal (“RFP”). Following proposal submission, Proposers will be interviewed by ALCOSAN’s Evaluation Team. The Evaluation Team will consider Proposer’s performance in the interview when evaluating the proposals.

After completion of the interviews, all proposals will be individually evaluated utilizing criteria clearly set forth in the RFP.

## 7.0 QUALIFICATIONS SUBMITTALS

Ten (10) hard copies of sealed Submittals and one (1) electronic copy (Flash Drive) are required. Submittals sent via email will not be accepted. Submittals must be received by the ALCOSAN Contracts Department (Admin Annex - Room 106) no later than 2:00 p.m. on April 12, 2024. Please allow time to be processed by security. If the documents are sent via courier, it is Consultant’s responsibility to ensure the documents have arrived on time.

Do not include any cost information on this submittal.

Submittals should be submitted as follows:

**STATEMENT OF QUALIFICATIONS FOR  
ALLEGHENY RIVER TUNNEL FINAL DESIGN**

Project S-490

Allegheny County Sanitary Authority

Office of Procurement

3300 Preble Avenue

Admin Annex, Room 106

Pittsburgh, PA 15233

Suzanne Thomas, Chief Procurement Officer

Late and/or noncompliant Submittals will not be accepted for any reason. Submittals that do not include requested information and/or do not follow the requested format will be considered non-responsive. Non-responsive Submittals will not be evaluated. To enable ALCOSAN to efficiently evaluate the Submittals, Proposers must strictly follow the required format in preparing their Submittals.

Each Submittal shall be organized in the following order:

- A. Letter of Commitment:** Provide a cover letter and company profile introducing the firm. This letter shall commit the firm to the terms of this RFQ and shall be signed by a person authorized to bind the company.
- B. Outside Cover and/or First Page:** Shall contain the name of the RFQ, the name of the Proposer, a point-of-contact, contact information (telephone and email) and the submittal date.
- C. Table of Contents**
- D. Team's Experience/References (Tabbed Section 1):** The Proposer shall select five (5) similar projects to highlight, as best representing the Team's project experience. Using the SF 330 format, the Proposer shall prepare a brief, two-page, summary of the project including the following information:
  - Project Name and Location
  - Date(s) of Project
  - Project Owner
  - Contact Name/Address/Telephone Number/Email Address
  - Description of the Project, identifying and highlighting the Proposer's involvement.
  - Firm Name and Role
  - Key Personnel involved in the Project, including Subconsultants
  - Year Completed
  - Total Fees

- E. Team's Experience (Tabbed Section 2):** The Proposer will submit a completed Form SF 330 Part I. (Part II is not required). Submit completed SF330 (Part I only) for subconsultants that have a key role in the project.

The Proposer shall attach an 11x17 Organizational Chart (Part I, Section D) of the proposed Team, not to exceed one (1) page.

The Proposer may provide no more than ten (10) resumes of key personnel for Part I, Section E, with each resume not exceeding two (2) pages. The resumes should be project based and not a chronological listing of employment. The resumes must be in the SF 330 format.

The Proposer shall provide a matrix of the Projects identified in Section 1 and the team members, including subconsultants, participation on each project.

- F. Commitment to MBE/WBE/SDV Participation Goals (Tabbed Section 3):**

ALCOSAN encourages businesses owned and operated by minorities, disadvantaged, women, and service-disabled veteran business enterprises to submit Submittals or to participate as subconsultants or suppliers. The Proposer shall be required to utilize minority, disadvantaged, women, and service-disabled veteran business enterprises to the fullest extent possible. The MBE/WBE participation goals are a minimum 10-25% of the total value of the Consultant's proposed services. The SDV participation goals are 3% of this same total value. A copy of ALCOSAN's Supplier Diversity Business Policy Statement is available on the ALCOSAN website. At this stage of submitting qualifications, ALCOSAN is looking for more than a general commitment to the goals of the policy. The companies must have a certification from a third party. With the VA turning over certification to the Small Business Administration (SBA), ALCOSAN will accept outdated VA certifications or new SBA certifications.

ALCOSAN understands that the ability to use subconsultants will vary and depend greatly on the size and type of project. The Proposer shall describe its commitment to the policy, highlighting MBE/WBE/SDV participation rates on the Proposer's past projects. The Proposer should identify potential team members, if any, proposed under this project and integrate the firms into the project.

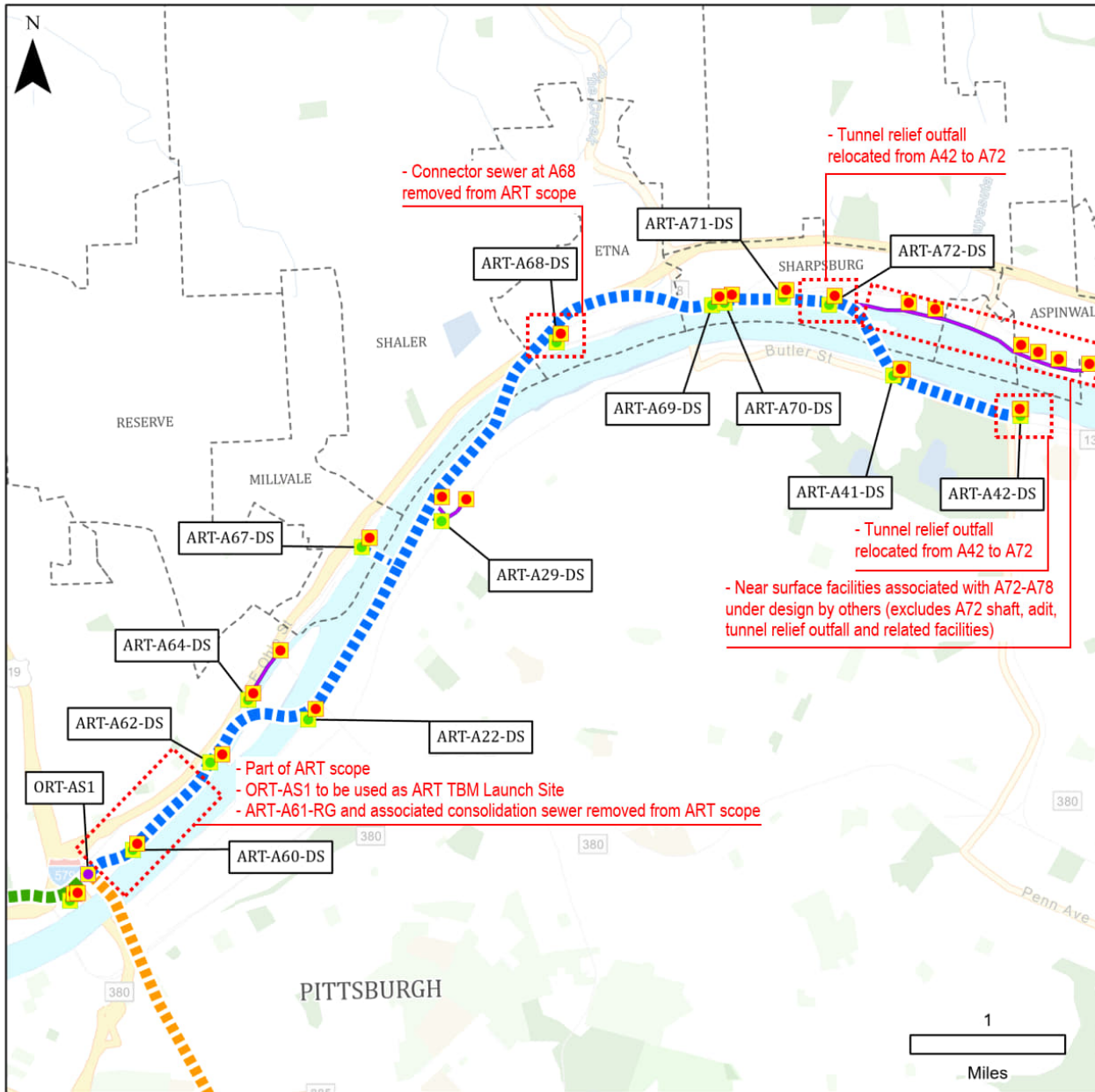
Failure to provide a clear MBE/WBE/SDV team structure where the team members are integrated into the program will impact a submittal's evaluation.

- G. Potential Conflict of Interest (Tabbed Section 4):** There are several Consultants who may be precluded, based upon their role in either the Preliminary Planning and/or the Program Manager for Tunnel. Each team member shall submit a



Certificate of Conflict of Interest (See <https://www.alcosan.org/work-with-us/standard-forms>). Should a firm be unsure if the scope of work performed could be a potential conflict of interest, said firm shall notify the ALCOSAN Procurement Officer for a decision on the potential conflict. The Proposer should pay particular attention to affiliate activities.

- H. Right to Know (Tabbed Section 5):** ALCOSAN is a municipal authority and is therefore subject to requests through the Pennsylvania Right-To-Know Law (RTKL). Submittals may become part of a RTKL request during and after the subsequent contract. **All Proposers shall clearly identify only that portion of the proposal, which is considered company proprietary information and, therefore, exempt under the RTKL.** A legend at the beginning of the proposal and/or on every page will not be considered sufficient. If there is no information contained in the submittal that may be exempt from the RTKL, Proposers shall make a statement to that fact in the Submittal.



### Allegheny River Tunnel Project

#### Major Scope Changes from BODR as of January 2024

**Legend**

**Proposed Facilities**


- Regulator
- Drop Shaft
- Access Shaft
- Allegheny River Tunnel (ART)
- Monongahela River Tunnel (MRT)
- Ohio River Tunnel (ORT)
- Connector, Consolidation, or Outfall Sewer

**Map Features**

- Municipal Boundary

---

Capital Project No. S-475  
 Map prepared by Jacobs  
 January 2024



## ATTACHMENTS

BODR\*

Survey Recommendations for Final Design Consultants TM (Revision 3 dated August 2023)\*

Geotechnical Field Manual (Version No. 3.3 dated January 2024)\*

\* The Attachments are provided separately as electronic files upon request to the Procurement Officer.