

Allegheny County Sanitary Authority (ALCOSAN)
REQUEST FOR QUALIFICATIONS
for
PROFESSIONAL SERVICES
OHIO RIVER TUNNEL (ORT) CONSTRUCTION MANAGEMENT
CAPITAL PROJECT NO. S-488

MARCH 9, 2022

1.0 INTRODUCTION

The Allegheny County Sanitary Authority (“ALCOSAN”) is soliciting Letters of Interest and Statements of Qualifications (collectively, “Submittals”) from Construction Management or Engineering firms interested in providing Professional Services for Construction Management related the Ohio River Tunnel (ORT) project. The ORT project currently includes the following construction contracts:

- Ohio River Tunnel Contract: Includes the main tunnel, the dewatering tunnel, the Chartiers Creek tunnel, the Sawmill Run tunnel, associated construction/drop shafts and adit connections, and related structures such a tunnel relief outfalls and manholes. Also includes near surface construction associated with O-27 and O-07.
- Potential Near Surface Construction (NSF) Contracts: NSF Package 1 - O-06A; NSF Package 2 – O-40/O-41; NSF Package 3 - O-14; NSF Package 4 - A-48; NSF Package 5 - A-60; NSF Package 6 - A-58. Includes regulators, consolidation sewers and related structures such as gates and manholes.

The selected firm will provide all services necessary to provide Construction Management. The ORT Construction Manager (CM) will provide traditional Agency CM type services including, but not limited to, constructability and biddability reviews, participation in value engineering workshops, and resident inspection and construction administration for the upcoming projects.

The ORT CM will be a part of a team of consulting firms to implement the ORT project. ALCOSAN has hired CDM Smith as the Clean Water Program Director, Jacobs as the Tunnel Program Manager Consultant (TPMC), and Mott MacDonald as the ORT Final Design Consultant (FDC). These consultants are working together with ALCOSAN to successfully deliver the ORT project and overall Tunnel Program.

An informational meeting will be held on-line via Microsoft Teams on March 31, 2022, at 10:00 a.m. (EST)

In addition, to maintain objective third-party views, the ORT CM Prime Consultant will be precluded from bidding either as a Prime or a Subconsultant on any of the ORT construction packages. Subconsultants may bid on certain procurements, dependent upon the scope of work.

The specific objectives of this CM project are as follows:

- Review and comment on ORT FDC's design products with focus on constructability and biddability.
- Participate in value engineering (VE) workshop(s)
- Provide bidding assistance
- Provide administrative support during the construction
- Provide resident inspection
- Review the ORT Critical Path Method Project Schedule. Coordinate review of contractor's schedule submissions and integration into the overall Tunnel Program schedule by the TPMC and update a Critical Path Method Project Schedule.
- Coordinate and document start-up and commissioning activities

Technical Qualifications

The Firms and personnel proposed must, as a team, be able to demonstrate construction management / resident engineering experience on projects with the following key technical elements:

- Tunnel boring machine (TBM) and earth pressure balance machine (EPBM) tunnels constructed in varying rock conditions below ground water
- Pre-excavation probing and grouting
- Conventional tunnel excavation (drill and blast)
- Working in gassy environments
- One-pass precast bolted gasketed segmental concrete lining systems
- Mined adit connections
- Large diameter deep shaft construction in soils and rock
- Complex geometry of hydraulic diversion structure construction
- Live sewer diversion work
- Mechanical, electrical and control systems installation and testing
- Odor control facility construction
- Environmental/permit compliance (including but not limited to noise, dust, particulates, traffic, muck handling and disposal, contaminated materials handling and disposal, construction along rivers, erosion, and sedimentation controls)
- Tunnel safety management
- Heavy construction health, safety, environment, and welfare (HSEW)
- Underground risk management, including administration of Geotechnical Baseline Report and Differing Site Conditions

This document is intended to assist firms in preparing their Submittals for this project. All Submittals that fail to conform to requirements set forth herein will not be considered by ALCOSAN.

2.0 COMMUNICATIONS REGARDING THE REQUEST FOR QUALIFICATIONS

All questions should be submitted, in writing, to:

Suzanne Thomas
ALCOSAN Procurement Officer
suzanne.thomas@alcosan.org

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 will not provide responses to any questions received seven (7) days prior to the submittal date.

3.0 OBJECTIVE

ALCOSAN proposes to retain a highly qualified Construction Management or Engineering firm to provide the services described herein. Firms and team members with significant experience delivering projects with similar characteristics will be given prime consideration for this project. Those firms that participate in this Request for Qualification (RFQ) process will be referred to as "Proposers." "Proposer" and its Subconsultants shall be referred to collectively as the "Team." The successful firm shall be referred to as the "Ohio River Tunnel Construction Manager".

4.0 SCOPE OF SERVICES

Project Name: ORT Construction Management
No.: Capital Project No. S-488
Location: Various locations (see map included at the end of the RFQ); subject to change.
Schedule: Design 11/1/2021-6/30/2024.
Bidding 7/1/2024-12/31/2024.
Construction/Place into Operation 1/1/2025-12/31/2029.

A. Preconstruction Phase

Preparation of a Project specific CM Implementation Plan to identify how the selected firm will implement the ALCOSAN Tunnel Program CM Plan, organize its staff, and establish procedures to monitor and manage the work in meeting the cost, schedule safety, and quality objectives for the project

The CM will review design work products for constructability / biddability including the 30%/60% design package and 90% documents released by the ORT FDC. Each of the submittals will include a cost estimate. The CM will be required to review the estimates in coordination with TPMC.

Specifically, the CM will review the bid ready construction documents. The purpose of this review will be to identify potential problem areas and/or conflicts in the documents, identify means of expediting the construction and administration of the project, and to evaluate the

proposed construction sequencing to make sure that the project as presented on the drawings and specifications is economically buildable using acceptable standard construction methods and that the installation and construction activities are clearly interfaced with WWPS and WWTP operation and maintenance requirements.

The CM will also perform a biddability review to ensure that the Contract Documents are ready for bid and construction purposes. The documents will be reviewed to identify problem areas, means of expediting and administration of the project, and to avoid potential claims and delays. Special attention must be given to the different prime contracts. CM shall verify that all responsibility for work is clearly defined. It must also verify that work responsibility is not duplicated. CM shall survey the existing labor and contractor markets to assess availability for ALCOSAN projects. CM will provide input into how the sequencing and scheduling of projects may need to be adjusted to maximize participation by potential construction bidders.

B. Value Engineering

For each of the design packages the CM will participate in a VE session at approximately 30%/60% stage to be facilitated by the TPMC. The CM will review the Value Engineering report prepared by others. The report will include a summary of all Value Engineering savings that were presented in the Value Engineering session, including cost estimates. The report will recommend Value Engineering concepts to be implemented in the design.

C. Bidding Assistance

The CM will provide services during the bidding periods. For each project, all requests for clarifications or substitutions will be initially directed to the CM who will then obtain input from ALCOSAN and the ORT FDC and/or TPMC, as necessary. The need for addenda will be determined by the ORT FDC with input from ALCOSAN and the TPMC. The CM will attend all pre-bid meetings along with ALCOSAN. The meetings will be arranged and conducted by ALCOSAN. The CM will also prepare minutes of the meetings and distribute them to all attendees.

The CM will assist ALCOSAN in reviewing the qualifications of the apparent responsive low bidders. The CM will verify that all provisions of the contract have been executed by the Contractor prior to award.

D. Administrative Support

The CM will provide administrative support during the construction program. All communication between the Prime contractors, ALCOSAN, TPMC, and the design consultants shall flow through the CM. e-Builder® will be used for all projects. Administrative support includes documenting and tracking job progress, compiling and tracking HSEW metrics, tracking project submittals, tracking RFI's, tracking change orders and other job-related correspondence. Administrative support also includes review of certified payroll and diversity objectives. CM will work with the e-Builder® software to generate reports to facilitate the above-mentioned tracking.

CM will conduct construction related meetings. Typical meetings include, pre-construction, pre-installation, regular progress meetings, cost control, O&M coordination, witness testing, and pre-start-up, and close-out.

CM will review and approve Contractor's application for payments for accuracy and completeness. CM shall verify all closeout documents and requirements have been satisfactorily completed for final pay applications.

CM will prepare pending change order requests. CM will review change order requests and negotiate as appropriate. CM shall prepare change orders for ALCOSAN review and approval and presentation to the ALCOSAN Board of Directors.

CM shall review contractor prepared marked-up as built drawings. Verify drawings reflect Field Instructions and Change Orders.

CM will verify subcontractors that perform work on the site have signed Project Labor Agreement (PLA) letters of Assent.

CM shall prepare monthly reports to ALCOSAN and TPMC for inclusion in monthly reports and updates to the ALCOSAN Board of Directors.

CM shall provide input to Risk Management process led by TPMC.

E. Resident Inspection

The CM will provide resident inspectors. Inspectors shall monitor progress and quality of work and determine if work is being performed in accordance with contract documents and approved shop drawings. Inspectors shall complete daily logs of construction activities. Inspectors shall use photos and/or videos to document work as necessary. Inspectors shall issue notices of non-conformance as necessary, and compile and verify completion of punch lists. Inspector shall verify completeness and accuracy of as-built drawings. Inspectors shall also monitor compliance with approved safety plan and regulations.

CM shall ensure QA/QC of materials including backfill gradations and compaction, concrete placement plant and field testing, welding inspection, and paint application testing.

CM will ensure QA in the Precast Segmental Tunnel Lining fabrication facility.

CM will inspect the work at substantial and final completion with ALCOSAN and develop construction punch lists. Prepare a written recommendation for issuing Certificates of Substantial completion.

F. Safety Surveillance Support

Provide a tunnel safety specialist to assist the ALCOSAN Safety Manager to develop, implement, maintain, and monitor a project safety monitoring program without assuming liability of or for the Contractor's Safety performance.

G. Scheduling

Review the ORT Critical Path Method Schedule. Coordinate review of contractor’s schedule submissions and integration into the Tunnel Program schedule by the TPMC and update a Critical Path Method Project Schedule in Primavera P6.

The CM will also review schedule revisions from the Prime Contractors as necessary. In the event delay claims evolve, CM shall make recommendations to ALCOSAN concerning assigning liability.

H. Start-up and Commissioning

The CM shall review and implement the commissioning plan. The CM shall witness and verify acceptance and performance testing. This will include conducting and documenting planning meetings with Contractor, Engineer and ALCOSAN staff. The CM will develop appropriate performance checklists for each project, system, and equipment. The CM shall monitor the equipment and systems throughout commissioning including any factory acceptance tests and the start-up period.

CM shall develop new equipment nameplate data and preventive maintenance and warranty information for input into the ALCOSAN Preventive Maintenance Program. CM shall complete ALCOSAN item master information sheet for transfer of spare parts to ALCOSAN. CM shall assume that it will be commissioning project specific equipment (gates, flow meters, ventilation, level sensors), not the overall system operation (including SCADA).

5.0 PROJECT SCHEDULE

The tentative schedule for the ORT CM is presented as follows:

<u>DATE</u>	<u>MILESTONE</u>
May 6, 2022	RFQ Submittal Deadline
Week of June 13, 2022	Shortlist Firms for RFP
Week of June 20, 2022	Distribute RFP
Week of June 27, 2022	Notify Unsuccessful Firms
Week of August 01, 2022	Deadline To Submit Proposal to ALCOSAN
Week of August 22, 2022	Interviews with ALCOSAN Staff
September 22, 2022	Consultant Selection by Authority Board
October/November 2022	Award Service Authorization and Notice to Proceed
January 1, 2025	Construction Begins for ORT Tunnel
January 1, 2029	Substantial Completion and Start of Commissioning
December 31, 2029	Start of Operation

6.0 EVALUATION OF QUALIFICATIONS SUBMITTALS/SELECTION PROCESS

The Construction Manager will be selected based upon the following process:

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

- Team's history and resource capability to perform required services
- Evaluation of assigned personnel
- Related experience
- Familiarity with local area geography and facilities
- Local office within Allegheny County
- Related previous team relationships
- Evaluation of Subconsultants
- References
- MBE/WBE/SDVOSB Participation

Based upon the evaluation of the Submittals, the Procurement Committee will develop a shortlist of three (3) to five (5) firms.

Request for Proposals: Shortlisted firms will be provided a Request for Proposals ("RFP"), by email. Following proposal submission, Teams will be interviewed by ALCOSAN's Project Procurement Team. The Project Procurement Team members will consider each Team's performance in the interview when scoring the proposals. Proposers are encouraged to bring Key Project Staff to the interviews.

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

7.0 QUALIFICATIONS SUBMITTALS

An informational meeting will be held on-line via Microsoft Teams on **March 31, 2022 at 10:00 a.m.** (EST) All parties interested in attending the informational meeting shall send an email to Suzanne Thomas. Once the emails are compiled, ALCOSAN will email a Microsoft Teams meeting invite. This meeting is not mandatory, but all interested parties are strongly encouraged to attend.

Ten (10) hard copies of sealed Submittals and one electronic copy (on a USB) are required. Submittals must be received no later than 2:00 PM on May 6, 2022, at the ALCOSAN Procurement Department office. Please allow for time to process through security. If the documents are sent via courier, it is Proposer's responsibility to ensure the documents have been received. Late submittals will not be considered and will be returned unopened. The Qualifications Submittals should be addressed as follows:

**Statement of Qualifications for
Ohio River Tunnel Construction Management
Capital Project S-488**

Allegheny County Sanitary Authority
3300 Preble Avenue
Pittsburgh, PA 15233
Attention: Suzanne Thomas
Procurement Officer

Late and/or noncompliant Submittals will not be accepted for any reason. To enable ALCOSAN to efficiently evaluate the Submittals, Proposers must strictly follow the required format in preparing their Submittals.

Each hard copy of the Submittals shall be bound using GBC or other semi-permanent binding to ensure that pages are not lost. Pages shall be no larger than standard letter size 8 ½” x 11” or folded to that dimension. Each section (as set forth below) shall be separated by a tabbed divider. Elaborate covers, binding, dividers, and the like are not required. Proposers are encouraged to submit on double-sided paper.

Electronic copies may be submitted as a PDF, or other appropriate electronic document format.

Each Submittal shall be organized in the following order:

- A. Outside Cover and/or First Page:** Shall contain the name of the RFQ, the name of the Proposer, address, a point-of-contact with contact information, including telephone number and email address, and the submittal date.
- B. Table of Contents**
- C. Firm’s Experience (Tabbed Section 1):** The Proposer shall provide no more than five (5) similar projects to highlight, as best representing the Team’s construction management project experience. For each project, the Proposer shall prepare a brief, one-page, single-sided summary of the project including the following information:
 - Project Name and Location
 - Date(s) of Project
 - Project Owner
 - Contact Name/Telephone Number/Email Address
 - Brief Description of the Project, highlighting the involvement of the Proposer

ALCOSAN may use these projects as references for the Firm as part of the past performance review so Proposers should notify the client(s) to let them know they will be contacted.

- D. Team's Experience (Tabbed Section 2):** The Firm will submit a completed Form SF 330 (Parts I and II).

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

The Firm may provide up to ten (10) resumes of key personnel for Part I, Section E, with each resume not exceeding two (2) pages. Resumes shall be submitted as an Appendix to the Proposal.

- E. 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 (MBE) and service-disabled veteran (SDV) business enterprises to the fullest extent possible. The MBE/WBE participation goals are 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. The Service-Disabled Veteran Business must be certified by the Veteran's Administration.

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.

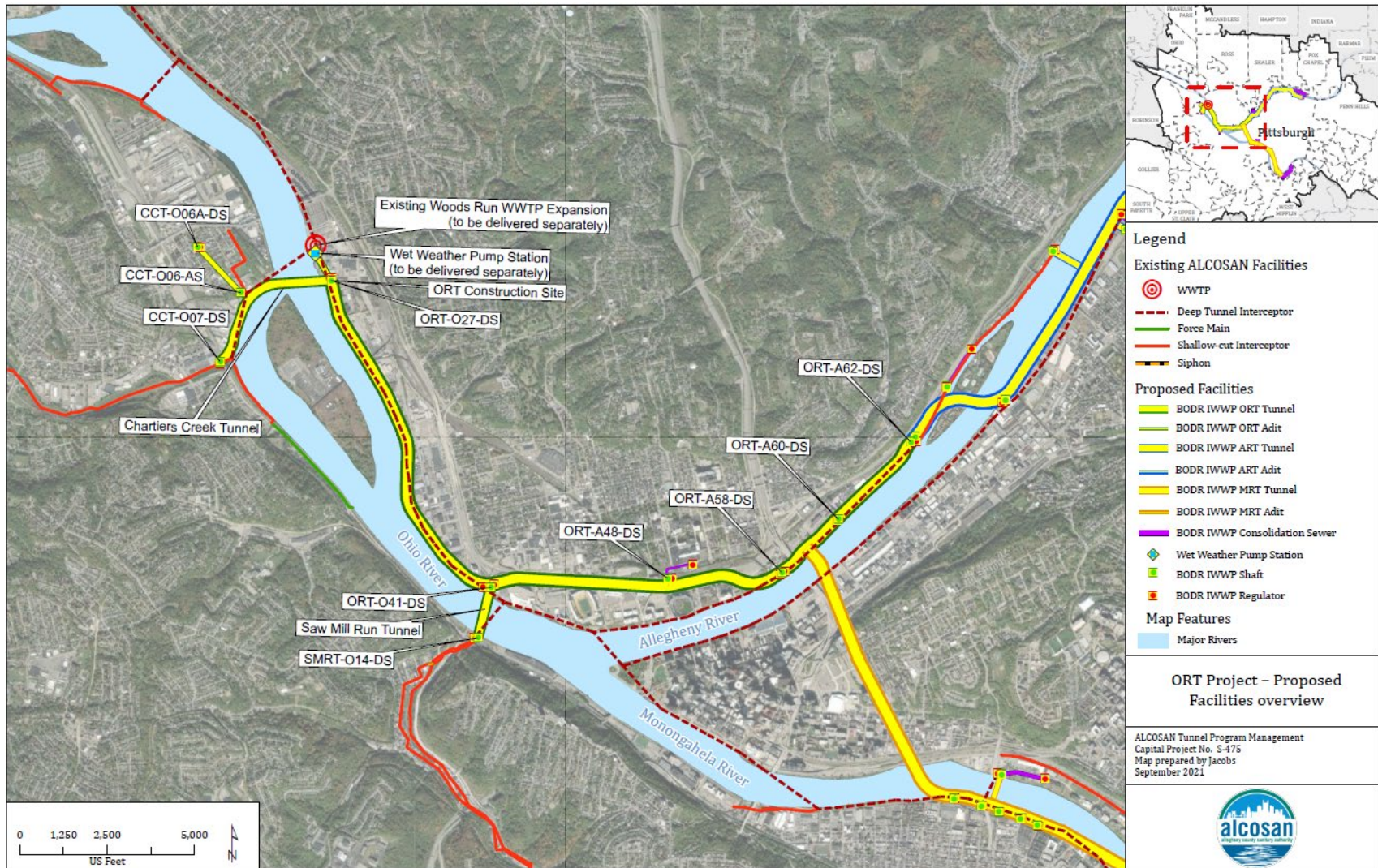
- F. Potential Conflict of Interest (Tabbed Section 4)**

There are several Consultants who may be precluded, based upon their role in either the ORT Tunnel Design 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.

- G. 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.



Source: Adapted from Regional Conveyance Facilities of the Interim Wet Weather Plan - Preliminary Basis of Design Report (ALCOSAN, 2020a) and ALCOSAN Wet Weather Program - Proposed Revisions to Interim Measures, Document No. 73 (ALCOSAN, 2020b). **Subject to change.**