

EXHIBIT A - SCOPE OF WORK

ISLAND WWTP FILTER UPGRADE ASSESSMENT & DESIGN

1. Project Services. Consultant agrees to perform professional civil engineering, structural assessment and design services for a project known and described as the Island Wastewater Treatment Plant (WWTP) Filter Upgrade Assessment & Design (“Project”).

The Services are described as follows:

- 1.1 Provide filter box structural assessment, civil/structural engineering and design services to develop and produce Contract Documents and Specifications for the purpose of competitive bidding and construction of the Project.

- A. Task 1 – Conduct Field Investigations

The Consultant will conduct a one-day field investigation, to better identify the current condition of the existing sand filter system and associated infrastructure.

The field investigations will be documented in a memorandum that includes photographs, video, and a field survey. The field investigation findings will be incorporated into the Task 2 Assessment Report.

- B. Task 2 – Develop Assessment Report

Consultant will complete the Assessment Report describing the findings from the site visit and identifying the required repairs/improvements to the existing sand filter system and for all the related infrastructure including, but not limited to the following:

- Concrete in both basins.
- Existing railing.
- All grating.
- Underdrains.
- Re-establish missing weirs.

Conceptual design with diagrams of the recommended repair(s) option with detailed cost summaries will be summarized in the Assessment Report. The Consultant will evaluate qualitative advantages and disadvantages of each alternative(s) in addition to cost estimates. To review the Assessment Report, a workshop and/or virtual meeting will be conducted with City staff. The Assessment Report will be submitted to the City for review and comment. Once the review/comments have been finalized the approved, the Assessment Report will be used for developing the preliminary and final design(s) for the filter upgrade related improvements.

C. Task 3 – Design Drawings

The Consultant will prepare design drawings for the Project that include engineering disciplines including general and structural. Review sets will be submitted by the Consultant at the 60%, 90%, and 100% Project levels along with updated construction estimates.

Preliminary Sheet Count (Bid Package-Filter Upgrades Island WWTP)

- General Sheets (3) – Cover; Abbreviations, Symbols and General Notes; and Legend and Symbols.
- Structural Sheets (2) – Filter Upgrades Plan, Structural Repair Details (2).
- Process Mechanical/Civil Sheets (8) – Related infrastructure including basins, underdrains, weirs, grating, rails, filter interior piping, filter media.
- A similar or “like for like” replacement is anticipated for the configuration filter underdrains and other filter interior elements listed above, with enhanced materials of construction if available and recommended.
- (No electrical design elements are anticipated)

A total of thirteen (13) design drawings will be prepared by Consultant as needed for a thorough and complete design. Electronic copies of the 60%, 90%, and 100% design level set of drawings will be provided to City staff for review and comment. Electronic copies of the final set of Construction Drawings (for bidding purposes) will be prepared and sealed by a professional engineer registered in Arizona. The Consultant will prepare written responses to any comments that are not incorporated in the final set of construction drawings.

D. Task 4 - Project Specifications

The Consultant will prepare written specifications to support the Project. The Consultant will provide progress review sets at 60%, 90% and 100% levels of the Project. The Consultant will prepare complete Project specifications including technical and administrative divisions. The specifications will consider construction schedules, material and installation specifications, and the use of regional and industry standards for the design performed under Task 2. Copies of the Project specifications will be submitted along with the plan drawings at the interim milestones indicated under this specific task.

F. Task 5 – Design Phase and Project Meetings

The Consultant will provide at least eight (8) design phase and related Project meetings with City staff for this Project. The Consultant will provide meeting support and documentation as needed for these meetings.

G. Engineering and Design Service Deliverables. LUMP SUM BASIS.

- i. Assessment Report.
- ii. Contract Documents and Technical Specifications.
- iii. Design Submittals and Review.
- iv. 30%, 60% and 100% Design Review.

2. Assumptions. The City will administer contractual agreements between the City and the construction contractor. There are no anticipated needs for survey, soils testing or concrete laboratory testing during this project. No ADEQ permits or amendments are necessary.

3. Schedule. The Services will commence upon receipt of an executed Agreement and will require 180 days for completion.