REQUEST FOR ENGINEERING SERVICES

AUGUST 2020

AGENCY: Department of Health Services

DHS CONTACT: Mark Zaccagnino, (608) 266-2902, mark.zaccagnino@wisconsin.gov
DOA CONTACT: Katherine Kalscheur, (608) 267-0509, Katherine.kalscheur@wisconsin.gov

LOCATION: Mendota Mental Health Institute, City of Madison, Dane County

PROJECT REQUEST:
Request release of $194,000 Building Trust Funds – Planning to prepare preliminary plans and a design report for the Mendota Mental Health Institute Water Plant Improvements Project. The A/E will provide design through construction administration services as indicated in the DFD “Policy and Procedure Manual for Architects/Engineers and Consultants”, the “Guide for Developing Program Statements for Projects Requiring Enumeration”, and the DFD “Contract for Professional Services as directed by DFD at the Design Kickoff meeting. The services may be contracted for in multiple contracts, or a multi-part contract with project-specific review/approval/authorization points in the contract, as determined by the needs of the project.

PROJECT NUMBER: 20G10

PROJECT DESCRIPTION:
The MMHI Water Utility provides water to Mendota Mental Health Institute and Central Wisconsin Center. The water system includes two wells, one elevated tank and one ground reservoir with booster pumps. Both wells were rehabilitated in the past five years. The distribution system ranges in age from 2 years to nearly 100 years. The distribution system ranges in age from 2 years to nearly 100 years.

Water tests have shown exceedances of copper in the recent past and the system MMHI is currently working on performing a Corrosion Control and Treatment study per the direction of the DNR to address copper levels.

Previous projects to clean the distribution system and the building plumbing were done over the past 10 years. These efforts have improved water quality at both institutions, but additional improvements are needed to improve reliability, and maintainability. These changes will allow the water system to comply to the drinking water standard.

Major improvements may include water treatment plant with filtration to improve water quality, compliant chemical storage and dosing, modifications to the reservoir and booster pumps.

This project will provide facility planning and alternative analysis for the water system and the first phase of construction to improve reliability and water quality.
Facility planning will determine repair and replacement needed to address deficiencies, bring the water system features into compliance with drinking water standards, improve reliability and maintainability, and improve water quality (including taste, odor, color) within the buildings. An analysis will compare these improvements to connecting with the Madison Water Utility. A concept plan of the improvements for the selected alternative will be prepared with cost estimates and timeline(s).

This project will complete first phase of construction. This may include building service main flushing ports, wellhead protection, controls and other elements.

**AE Qualifications**
The AE team should have relevant experience on multiple projects in the design, construction, and operation of municipal water system upgrades, including treatment plants and distribution systems. A/E’s should clarify this experience in their letter of interest by describing the project scope, size, construction value, date completed. A/E’s should also indicate, where possible, Prime and sub-consultant team members, and the experience of sub-consultants with similar projects. The A/E will have specific experience with the following:

- DNR public drinking water requirements and permitting
- Water quality evaluation including microbial and chemical influences on corrosion
- Water treatment system evaluation, design, and construction
- Water distribution system analysis, design, and construction
- Water storage analysis, design, and construction
- Drinking water chemical storage and addition
- Supervisory controls and data collection systems for municipal water utilities
- Developing and executing sampling and monitoring plans for water in buildings to determine water quality

**BUDGET AND SCHEDULE:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
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<tbody>
<tr>
<td>A/E Selection</td>
<td>August 2020</td>
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<tr>
<td>Alternatives Study</td>
<td>Nov 2020</td>
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<tr>
<td>Design Report</td>
<td>June 2021</td>
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<tr>
<td>SBC Approval</td>
<td>Aug 2021</td>
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<tr>
<td>Bid Opening</td>
<td>Feb 2022</td>
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<tr>
<td>Start Construction</td>
<td>May 2022</td>
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<tr>
<td>Substantial Completion</td>
<td>Nov 2022</td>
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**TOTAL** $907,000

**PREVIOUS ACTION:**
None