HRGreen

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September 25, 2023

Mr. Kou Vang, PE
Project Manager
Saint Paul Regional Water Services
1900 Rice Street
Saint Paul, MN 55113

Subject: **Letter Scope, Schedule, & Fee** for on-site generator and instrumentation design at the Mailand Road Pump Station

Dear Mr. Vang:

We are pleased to present this amendment request to add additional design and construction effort to the Mailand Road Electrical Design project.

PROJECT UNDERSTANDING

The project's objective is to provide additional design and construction phase services for design contract number 3972, titled "RFP-SPRWS_Mailand Road Pumping Station-HR Green." This will be Amendment 1 to the previously authorized design phase.

SCOPE OF SERVICES

1. PROJECT MANAGEMENT
    a. Provide ongoing administration, coordination, and subcontractor management for the project.

2. DESIGN
    a. Permanent on-site generator with factory-built outdoor sound attenuated reach-in enclosure.
        i. Design, locate on drawings, and specify a generator to power all 3 pumps, RTU/SCADA panel, and ancillary lighting panel.
        ii. Design foundation for generator and enclosure.
        iii. Design SCADA communication for remote monitoring and exercising of generator.
        iv. Enclosure to be rated for hospital level of noise.
        v. Bid alternative 1 will be base bid of natural gas generator engine and deduct alternate to for a diesel engine.
    b. Design to include power quality meter (originally included), new utility main breaker located indoors, and automatic transfer switch (originally included), include Helwig grounding rings for existing motors.
    c. Design replacement instrumentation.
        i. Replace the influent and effluent Rosemount pressure devices (reuse existing wire and conduit).

1. Bid alternative 2 will be base bid to replace the pressure devices and deduct alternate to retain the existing units.

ii. Replace the existing 10” turbo flow meter with a flow meter. Assume the existing meter assembly can be valved off, isolated and new meter piping installed without requiring temporary bypass piping. We understand the allowable shutdown time is approximately 2 to 3 hours.
   1. Bid alternative 3 will be base bid venturi meter and deduct alternate of a magnetic meter.

iii. The existing pH/chlorine monitoring system will remain in use.

iv. Existing instruments will be included in SCADA monitoring include:
   1. 3 pump VFD’s (new)
   2. 2 pressure transmitters (new)
   3. Flow meter (new)
   4. Generator (new)
   5. 3 pump discharge check valve limit switches
   6. Discharge pH
   7. Discharge chlorine
   8. Discharge water temperature
   9. Door switch
   10. Thermostat
   11. Exhaust fan
   12. Temperature transmitter
   13. Smoke alarm

v. New operation programming will be designed for the Mailand Pump Station. SCADA work outside of the pump station (i.e. on the main SCADA at the McCarron’s WTP) will be by SPRWS staff due to liability and potential warranty concerns on all current and recent projects.

vi. Specification will include language forbidding locked code in the new SCADA system.

3. CONSTRUCTION
   a. Additional submittal review for generator and instrumentation.
   b. A construction duration of 4 months is anticipated. Weekly site visits by the HR Green project manager will add 12 site visits.

SCHEDULE

1.	Additional design work begins	immediately
2.	Anticipated bid	fall 2023
3.	Anticipated construction	winter 2024
4.	Anticipated final completion	spring 2024

ITEMS NOT INCLUDED IN AGREEMENT / SUPPLEMENTAL SERVICES

If authorized under a Supplemental Agreement HR Green could furnish or obtain from others the following services:

1. Security system or camera design.
2. Survey work or easement work.
3. New service coordination with Xcel Energy for natural gas.
4. Construction observation other than site visits listed in scope.
5. Construction staking.
6. Special testing.
7. Additional design.

8. Public Relations.
9. Permitting or environmental work.
10. Contractor warranty work coordination or review.
11. Review of certified payroll for PFA compliance.
12. Other services not explicitly indicated herein.

PROFESSIONAL SERVICES FEE

The additional fee for the effort described in the scope of services will be billed on a time and materials basis for a not-to-exceed budget.

Design: $27,000

Construction: $12,600

Total: $39,600

We appreciate the opportunity to work with SPRWS on this project. Please contact Adam Salo at 651-659-7748 with any comments or questions you may have.

HR Green, Inc.

Adam Salo, PE

Project Manager