



July 21, 2022

Board of County Commissioners
 Clackamas County

Approval of Amendment #6 to the Personal Services Contract #1652 with Murraysmith, Inc. for Pump Station Rehabilitation and Upgrades Project for construction engineering and integration services for the Bolton PS and the Group 1 (River Street, Clackamas, and Timberline Rim) Pump Stations. The amendment value is \$347,762.00.

Funding through WES Capital Improvement Funds.
 County General Funds are not involved. – Procurement.

Purpose/Outcome	Approval of Amendment #6 to the Personal Services Contract #1652 with Murraysmith, Inc. for Pump Station Rehabilitation and Upgrades Project for construction engineering and integration services for the Bolton PS and the Group 1 (River Street, Clackamas, and Timberline Rim) Pump Stations. The amendment value is \$347,762.00. Funding through WES Capital Improvement Funds. County General Funds are not involved. – Procurement.
Dollar Amount and Fiscal Impact	Amendment #6 will increase contract by \$347,762.00 for a Total Contract Value of \$2,479,468.00.
Funding Source	WES Capital Improvement Funds, County General Funds are not involved.
Duration	From execution through December 30, 2024.
Previous Board Action/Review	BCC Approval of a Contract with Murraysmith, Inc. for the Pump Station Rehabilitation and Upgrades on November 14, 2019. Sent to issues on July 19, 2022.
Strategic Plan Alignment	<ol style="list-style-type: none"> 1. This project supports the WES Strategic Plan to provide Enterprise Resiliency, Infrastructure Strategy and Performance and Operational Optimization by addressing deficiencies and reduced capacity; increasing reliability and operational efficiencies. 2. This project supports the County Strategic Plan of building a strong infrastructure that delivers services to customers.
Counsel Review	Date of Counsel review: July 5, 2022. Name of County Counsel performing review: Amanda Keller.
Procurement Review	Was the item processed through Procurement? Yes.
Contact Person	Jessica Rinner, Civil Engineering Supervisor, 503-742-4551
Contract No.	#1652

BACKGROUND:

Clackamas Water Environmental Services (WES) has identified nine of its pump stations (PS) in need of improvements to increase reliability, safety and operational efficiency. The Project is conducted in phases that build upon each other. The first phase was to do evaluations of the existing PSs and recommend upgrades. The next phase is for design and bidding support which is currently underway. The nine pump stations are being broken into 4 construction contracts. This amendment will cover the engineering services required to support construction and

integration of the new systems into WESs existing SCADA system for two of the construction contracts that include the upgrades being constructed at the Bolton, River Street, Clackamas, and Timberline Rim PS's.

PROCUREMENT PROCESS:

This Amendment is in accordance with LCRB C-047-0800(a) for an anticipated amendment.

RECOMMENDATION:

Staff recommends the Board approve the Amendment #6 to the Personal Services Contract with Murraysmith, Inc. for Pump Station Rehabilitation and Upgrades Project. Amendment #6 request for an additional \$347,762.00 and is for construction engineering and integration services for the Bolton PS and the Group 1 (River Street, Clackamas, and Timberline Rim Pump Stations). Funding through WES Capital Improvement Funds.

Respectfully submitted,



Ron Wierenga
Assistant Director
Water Environment Services

Attachments: Contract #1652

PROCUREMENT

AMENDMENT #6
TO THE CONTRACT DOCUMENTS WITH MURRAYSMITH, INC. FOR 2019-55 PUMP STATION
REHABILITATION AND UPGRADES
Contract #1652

This Amendment #6 is entered into between Murraysmith, Inc. (“Contractor”) and Water Environment Services (“District”) and shall become part of the Contract documents entered into between both parties on November 14, 2019 (“Contract”).

The Purpose of this Amendment #6 is to make the following changes to the Contract:

1. ARTICLE I, Section 2. **Scope of Work** is hereby amended as follows:
 District has requested Contractor to provide construction engineering services for Group 1 (Timeline Rim, Clackamas, and River St) Pump Station Upgrades and Bolton Pump Station Upgrades, as well as integration services. The supplemental Scope of Work and associated fee schedule is attached as Exhibit **H** and hereby incorporated by reference.

2. ARTICLE 1, Section 3. **Consideration** is hereby amended as follows:
 Compensation for construction engineering and integration engineering services is authorize for \$347,762.00. The total Contract consideration shall not exceed \$2,479,468.00.

ORIGINAL CONTRACT	\$ 238,771.00
AMENDMENT #1	Allow Travel and other Expense
AMENDMENT #2	\$ 19,992.00 + Time Extension
AMENDMENT #3	\$ 1,349,710.00 + Time Extension
AMENDMENT #4	\$ 46,291.00
AMENDMENT #5	\$ 476,942.00
AMENDMENT #6	\$ 347,762.00
TOTAL AMENDED CONTRACT	\$ 2,479,468.00

Except as expressly amended above, all other terms and conditions of the Contract shall remain in full force and effect. By signature below, the parties agree to this Amendment #6, effective upon the date of the last signature below.

Murraysmith, Inc.

Adam Crafts

DIGITALLY SIGNED 2022.06.30

09:31:04-07'00'

 Authorized Signature Date

Adam Crafts

 Printed Name

Water Environment Services

 Chair

 Recording Secretary

Approved as to form



 County Counsel

7/5/22

 Date

EXHIBIT H

SCOPE OF WORK PUMP STATION REHABILITATION AND UPGRADES

CONSTRUCTION PHASE SERVICES FOR BOLTON AND GROUP 1 PUMP STATIONS CLACKAMAS WATER ENVIRONMENT SERVICES

Introduction

Clackamas Water Environmental Services (WES) has prioritized several of its pump stations (PS) in need of improvements to increase reliability and operational efficiency. Final design for the Bolton PS and Group 1 pump stations (Clackamas, Timberline Rim, and River Street) is being completed and construction of the projected will begin in late 2022 and extend to August 2023. WES has requested construction phase engineering services be provided by Murraysmith to support WES staff.

Task numbering is a continuation from the original contract's scope of work. The same general assumptions and District-provided services noted in the original scope of work are still applicable unless amended herein.

General Assumptions

- Bolton PS and the Group 1 pump stations will be constructed in two separate contracts. The anticipated duration of the combined construction phase is one year beginning in August 2022.
- Active on-site construction activities for Bolton PS are estimated for 19 weeks and Group 1 pump stations is estimated for 40 weeks.
- Time is allotted as an average over the time frame defined below. However, the actual amount and rate of time that may be needed to perform the activities described depend on contractor competency, changed conditions, and/or permitting agency demands. WES will be notified if additional time will be needed to maintain an established level of services through the completion of the project.

District Provided Services

District will provide:

- Resident Project Representative (RPR) and Project Manager (PM) who will provide construction management and daily inspection for construction projects
- Special inspections as outlined in the Structural Plans
- Coordination with the Contractor for WES-provided equipment
- Any right of way permits and pay fees required for construction of improvements
- Review of Contractor BOLI submittals

Consultant Provided Services

Task 12 – Construction Engineering Services (Existing Task Amended)

Objective

Provide engineering services to support the District's construction management and inspection staff during the construction of the Bolton and Group 1 pump stations.

Activities

- Participate in the pre-construction conference for each project with the District, Contractor, Sub-Contractors and other interested parties and answer questions necessary related to the final design (two (2) meetings).
- Review and respond to Contractor submittals for conformance with the final design.
- Review and respond to Requests for Information (RFIs) or Clarification.
- Assist the District in evaluating contractor requests for change orders. Review and comment on the Technical aspects of the proposed changes, the effect on construction schedule, assist in negotiation of the change if necessary.
- Attend on-site meetings with WES staff and contractor as needed during on-site construction phases. Provide SCADA and PLC/HMI programming and integration for the new facilities at the pump stations based on control strategy described in the contract documents.
- Prepare draft Operation and Maintenance Manual for WES review and comment. Incorporate WES comments into final version.

- Review the Startup Plan prepared by the general contractor and provide input related to testing, commissioning and startup, completion dates for startup, system transfer over and operation of the new facilities.
- Test HMI programming during start up and commissioning. Provide operational modifications and resolve operational and control issues.
- Perform one on-site construction observations of work including:
 - Electrical panel and conduit installation at each site (4 total)
 - HVAC installation at each site (4 total)
 - Bolton pump base rebar and form work
 - Wet well platforms and still wells at River Street and Bolton PS (2 total)
 - Mechanical piping and plumbing installation at Bolton and Clackamas (2 total)
 - Wet well coating substrate preparation at Clackamas and Bolton PS (2 total)
 - Final inspection of completed projects at each site (3 total)
- Prepare record drawings

Deliverables

- Pre-construction meeting agenda and summary (two (2) total)
- Submittal review comments
- Responses to contractor RFIs
- Change Orders recommendations and responses
- Inspection summary reports
- Draft and final Operations and Maintenance Manual in pdf files
- Record Drawings, full and half size pdf files and dwg files

Assumptions

- The budget includes five (5) on-site meetings for Bolton PS and 10 for Group 1 pump stations. Four (4) hours by the Design Engineer is allotted to each visit to include travel and summary email.
- Budget for submittal review assumes up to 35 submittals for process equipment, piping, and valves. WES will receive, review, and distribute pdf copies of submittal review comments to the Contractor.
- Budget for construction engineering support assumes up to 15 RFI responses and two (2) change order requests.
- Expenses for mileage includes 36 trips with an average distance of 50 miles each at the 2022 IRS mileage rate of \$0.58/mile.

Anticipated Project Milestones

Bolton PS Construction NTP	December 2022
Bolton PS Completion	June 2023
Group 1 Construction NTP	July 2022
Group 1 Completion	August 2023

PUMP STATION REHAB AND UPGRADES - AMENDMENT 6
CLACKAMAS WATER ENVIRONMENT SERVICES
PROPOSED FEE ESTIMATE

Average Billing Rate Estimated per Classification/Staff Name	Principal Engineer I		Engineering Designer II		Engineering Designer I		Engineering Designer I		Technician IV		Administrative II		Hours	Labor	Subconsultants					Subconsultant Total with Markup	Expenses	Total			
	Staff Name	5218 Crafts	5111 Soto	599 Coles	5103 Shareth	5148 Estep	580 Sterberg	5148 Estep	580 Sterberg	Structural	Electrical	I&C CA			Integration	Architect									
Task 12 - Construction Engineering Services																									
Pre-con	8	8											16	\$ 2,628	\$ 1,000	\$ 2,020	\$ 2,240				\$ 5,523	\$ -	\$ 8,151		
RFI response	12	45										57	\$ 7,600	\$ 2,000	\$ 5,140					\$ 7,497	\$ -	\$ 15,097			
Change order review	8	32										80	\$ 9,654	\$ 2,500	\$ 5,100	\$ 5,600				\$ 13,902	\$ -	\$ 23,556			
Project meetings	24	80										104	\$ 14,091	\$ 2,500	\$ 6,100	\$ 8,400				\$ 17,850	\$ 290	\$ 32,731			
On-site construction observations												78	\$ 7,754	\$ 10,691	\$ 6,100	\$ 11,200			\$ 1,500	\$ 30,966	\$ 754	\$ 39,474			
Submittal Review	4	24	100	16								144	\$ 15,127	\$ 5,000	\$ 5,140	\$ 11,200			\$ 1,000	\$ 23,457	\$ -	\$ 38,584			
Final inspection	18	24										42	\$ 6,528	\$ 1,500	\$ 2,500	\$ 2,240				\$ 6,552	\$ -	\$ 13,130			
Start up			36	48								84	\$ 8,760	\$ 1,870			\$ 44,300			\$ -	\$ -	\$ 53,061			
O&M Manual	4	24	32	24								108	\$ 11,462	\$ 7,020	\$ 9,800				\$ 17,661	\$ -	\$ 29,323				
Record Drawings	8	24	48	16								168	\$ 21,487	\$ 1,840	\$ 3,360				\$ 5,460	\$ -	\$ 26,947				
PLC Programming												0							\$ 23,520	\$ -	\$ -	\$ 23,520			
OLT Programming												0							\$ 17,920	\$ -	\$ -	\$ 17,920			
Network Configuration												0							\$ 6,720	\$ -	\$ -	\$ 6,720			
Telnet/ty												0							\$ 3,480	\$ -	\$ -	\$ 3,480			
Alarm Configuration and Programming												0							\$ 4,480	\$ -	\$ -	\$ 4,480			
Task 12 Subtotal	86	297	338	56	88	16	881	\$ 105,343	\$ 25,191	\$ 42,870	\$ 54,040	\$ 105,280	\$ 2,500	\$ 241,375	\$ 1,044	\$ 347,762									
TOTAL - ALL TASKS	86	297	338	56	88	16	881	\$ 105,343	\$ 25,191	\$ 42,870	\$ 54,040	\$ 105,280	\$ 2,500	\$ 244,375	\$ 1,044	\$ 347,762									

COVER SHEET

- New Agreement/Contract
- Amendment/Change/Extension to _____
- Other _____

Originating County Department: _____

Other party to contract/agreement: _____

Description:

After recording please return to: _____

County Admin

Procurement

If applicable, complete the following:

Board Agenda Date/Item Number: _____