

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: August 8, 2017

Report

Date: August 4, 2017

Subject: Approval of Calcon Work Directive 17-04 for the Denniston Booster Pump Station Project and Calcon Work Directive 17-05 for Replacement of the Crystal Springs Pump #3 Soft Start

Recommendation:

1. Approve Calcon Work Directive 17-04 for the Denniston Booster Pump Station Project for an estimated cost of \$21,643.75.
2. Approve Calcon Work Directive 17-05 for replacement of the Crystal Springs Pump #3 Soft Start for an estimated cost of \$12,213.53.

Background:

17-04

The Denniston Booster Pump Station project currently under construction requires design consulting, installation, and control system integration with the Denniston Raw Water Pump Station as well as the Denniston Treatment Plant in order to control the two new booster pumps.

This work is included in the Denniston Booster Station Fiscal Year 2016/17 CIP and will be funded as part of the IBank financing of the Bridgeport Pipeline/Denniston Booster Station Project.

17-05

The Crystal Springs Pump #3 Soft Start recently failed due to the failure of the pump motor. This work involves removing the defective soft start and installation of a new soft start.

This work is unbudgeted, but is within the \$250,000 total authorized by the Board at the January 2017 Board Meeting for Calcon Systems' ongoing instrumentation and controls work.

WORK DIRECTIVE
FOR PUBLIC WORKS PROJECT

Work Directive No.: CAL-17-05 – Crystal Springs P3 Soft Start

Date Issued: 07-27-2017

1. General

Calcon System is pleased to provide the following work directive for the Crystal Springs P3 Soft Start job. The Crystal Springs P3 Soft Start has recently failed and requires replacement. Calcon Systems will specify and procure the replacement ABB soft start and then proceed with the removal of the defective soft start and the installation of the new soft start.

2. Scope of Services

- Specify and procure the replacement ABB soft start
- Removal of defective soft start
- Installation of the new soft start

3. Special Requirements

None

4. Location of Work

Crystal Springs Pump Station

5. Schedule/Time for Completion

1 day

6. Project Budget

See below

WORK DIRECTIVE

FOR PUBLIC WORKS PROJECT

Work Directive No.: CAL-17-04 – DTWPS Controls

Date Issued: 07-27-2017

1. General

Calcon System is pleased to provide the following work directive for the Denniston Treated Water Pump Station, DTWPS. The DTWPS Controls project involves: design consulting, installation and control system integration with the Denniston Raw Water Pump Station as well as the Denniston Treatment Plant in order to control the two new booster pumps installed at the DTWPS.

2. Scope of Services

- System design and control strategy development
- Installation tasks for PLC control system integration
- Programming tasks for multiple PLC's, Radio's, HMI's, Alarm Notification and SCADA
- Documentation updates and labeling
- System acceptance testing with CCWD

3. Special Requirements

Denniston Treatment Plant will need to be shut down for brief periods during installation and system commissioning

4. Location of Work

Denniston Treated Water Pump Station

5. Schedule/Time for Completion

1 week

6. Project Budget

See below

Calcon Project Budget Estimate

Project: DTWPS Controls
Proj. No.: CAL-17-04

Date: 7/26/2017

Labor

Task No.	Description	PM Hours @ \$ 140.00	Hours @ \$ 130.00	Travel Trips @ \$250	Project Totals
0	Project Management & onsite consultating	24		4	
1	System design meetings and control strategy development	8	8	2	
2	Installation tasks for PLC Control system integration	8	16	2	
3	Programming tasks for multiple: PLC;'s, SCADA, Radio's, HMI's & WIN911	40		5	
4	Documentation updates, comments and wire labels		8	1	
5	System acceptance testing with CCWD	8	8	2	
	Total Hours	88	40	16	
	Total Labor Cost	\$ 12,320.00	\$ 5,200.00	\$ 4,000.00	\$ 21,520.00

Expenses

Number	Description	Unit Cost	Total Cost	
1	Miscellaneous installation materials.	\$ 100.00	\$ 100.00	
1		\$ -	\$ -	
	Total Expenses		\$ 100.00	
	Sales Tax (8.75% Half Moon Bay)		\$ 8.75	
	Estimated Shipping Costs		\$ -	
	Markup - 15% (Costs x 1.15)		\$ 15.00	\$ 123.75
	Total Project Budget			\$ 21,643.75

Calcon Project Budget Estimate

Project: Crystal Springs P3 Soft Start
Proj. No.: CAL-17-05

Date: 7/27/2017

Labor

Task No.	Description	PM Hours @ \$ 140.00	Hours @ \$ 130.00	Travel Trips @ \$250	Project Totals
0	Project management				
1	Removal and installation of Pump 3 soft start at Crystal Springs	8	8	2	
	Total Hours	8	8	2	
	Total Labor Cost	\$ 1,120.00	\$ 1,040.00	\$ 500.00	\$ 2,660.00

Expenses

Number	Description	Unit Cost	Total Cost	
1	ABB Soft Start for Pump 3	\$ 7,268.00	\$ 7,268.00	
1	Installation materials	\$ 250.00	\$ 250.00	
	Total Expenses		\$ 7,518.00	
	Sales Tax (8.75% Half Moon Bay)		\$ 657.83	
	Estimated Shipping Costs		\$ 250.00	
	Markup - 15% (Costs x 1.15)		\$ 1,127.70	\$ 9,553.53
	Total Project Budget			\$ 12,213.53