

STAFF REPORT

To: Coastside County Water District Board of Directors
via David Dickson, General Manager

From: Joe Guistino

Agenda: March 9, 2010

Report

Date: March 1, 2010

Subject: El Granada Pump Station

Recommendation: Authorize Staff to award contracts to 1) Pump Repair Services to replace a 10 HP/80 gpm pump at El Granada Pump Station 1 with a 20 HP/215 gpm pump for \$16,044.65 and 2) Gardini Electric for associated electrical and safety upgrades to the station at a cost of \$4,440.

Background:

El Granada Pump Station 1 was originally designed for a capacity of 150 gpm and consists of two identical pumps. The pumps are the original units, having been rebuilt on a number of occasions. The last time that a pump failed in El Granada PS 1, Pump Repair Service recommended that we install a larger unit so that it would not run as much, with the added benefit of a reduction in noise from the station. With the increase in pump motor size, the station electrical panels will have to be upgraded to accompany the increase in power requirements.

Quotes from Pump Repair Service and Gardini Electric for the pump and associated installation and electrical work are attached. District Engineer Jim Teter has reviewed and concurs with the proposed work and the pump design.

Fiscal Impact:

Cost of approximately \$21,000. There is \$25,000 allotted for this project in the FY10 CIP.



PUMP REPAIR SERVICE CO.

January 18, 2010

Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

Attn: John Davis

SUBJECT: TANK NO. 1

Dear John,

We are pleased to provide you with an estimate on the following work. We will remove the existing pump and motor furnish and install new 20 HP, 3" G&L vertical multi-stage pump and motor with new suction and discharge piping.

Design Conditions: 225 GPM @ 230' TDH

1 - G&L model SSVB46-3/2 3" 150# flanged 316 stainless steel wet end vertical multi-stage 20 HP, 3500 RPM, 230 V, 3 PH, TEFC premium enclosure, 2 stage with 3" cast steel companion flanges with steel base plate.....	\$7,163.00
1 - 3" metaflex globe flanged check valve.....	1,132.00
1 - 4" x 3" discharge reducer.....	125.00
1 - 3" 90 degree elbow.....	60.00
1 - Suction spool.....	250.00
1 - Steel fabricated discharge piping.....	500.00
Misc. hardware.....	150.00
Materials Subtotal.....	9,380.00
 Freight.....	 400.00
Sales tax.....	904.65
Field welder.....	1,280.00
Estimated Field labor.....	3,880.00
Service truck.....	200.00
Estimated Total.....	\$16,044.65
Delivery.....	4 Weeks

If you have any questions on the above, please give me a call.

Sincerely,

Wayne Archer
WA/dm

Gardini Electric Co. Inc.

Motor Control

Industrial Wiring

State License 195459

2730 17th Street San Francisco, CA 94110 (415)-626-4422

2/1/2010

Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

Attn: John Davis
Re: El Granada # 1

The following scope and price is to provide and install a replacement circuit breaker and a new starter to accommodate a 20 horsepower pump motor.

1. Remove the existing 50 amp MCP in the # 1 starter enclosure and replace it with a 100 amp MCP (motor circuit protector).
2. Remove and replace the existing starter with a size 2 ½ with over load protection sized for 20 horsepower.
3. Install a fuse block on the primary side of the existing control transformer. It is currently not fused.
4. Remove the slug from the secondary side of the transformer and replace it with a fuse.
5. Disconnect the wires to the 10 hp motor from the #1 starter and connect it to the # 2 starter. This is to convert the motor near the door to the 20 hp configuration and use the larger starter enclosure for the 20 hp starter.
6. Remove the ¾ inch conduit and wire running from the starter to the existing motor and replace it with a 1-inch conduit and wire sized for 20 hp.
7. Connect the new motor with seal tight flex.
8. Test rotation.

The estimated price for this scope is \$4,440.00.

We are assuming you can control the pump with the telemetry system to alternate and make the 20hp the primary pump. The service is 100 amp and may have trouble starting the 20 if the 10 is running. The running load of the 2 pumps is 82 amps but the starting current of the 20 could exceed the amperage of the main on start up if the 10 is running.

Exclusions: concrete work, core drilling, cutting, patching, painting, trenching and backfill, bollards, link seals, bonds, permits, PG&E fees, OSIP insurance requirements or rebates, temporary lighting and site power for other trades, repairs to existing or new utilities for damages by others for any reason, overtime costs, independent testing.

Sincerely,


Larry Gardini