

June 18, 2024

Arnie Romero
City of Orland Public Works
815 Fourth St
Orland, Ca 95963

Re: Quotation for Railroad Ave Lift Station

Simonds Machinery is pleased to offer the following options to retrofit the existing duplex lift station located on Railroad Ave. The job includes two different pump options, one being 2-3hp Shinmaywa submersible solids handling pumps. The other being 2-5hp Barnes chopper pumps. Because you have requested that the 3 smaller lift stations share the same motor the Shinmaywa will require a “buck” transformer to drop the voltage from 460-volt down to 230-volt at this site. This may require an upsizing of the wire feeding the control panel. The Barnes option, however, would not require this transformer as its motor is compatible with both 460volt and 230volt. The voltage the motor sees is determined by the power cap and cord assembly. So, you could have one spare motor for all three lift stations and use the correct power cord for the specific lift station. Theoretically you would reuse the cords at each site when changing out a pump. The rest of the retrofit consists of a new duplex motor control panel sized on the choice of pumps used. Enclosures are NEMA 4X stainless steel with a Pump Vision PV600 universal controller set up for a FOG Rod level control system with redundant back up floats. NEMA Starters, typical HOA selector switches and power disconnects, pump run indicators, seal fail indicators and motor over-temp indicators as well as high water alarm. The panel is also outfitted with SCADA which will monitor high and low level, cycle counter and run times as well as power failure. Also included is a manual transfer switch and power receptacle for a portable power source. The actual lift station will receive new base elbows for the rail system, new Stainless-steel rails with upper guide rail brackets, new stainless steel lifting chains for each pump, as well as 2-new schedule 10 Stainless steel discharge pipes from base elbow to the lateral lines exiting the tank. Lastly, we will replace both the check valves and gate valves with new 4” Matco resilient wedge gate and weighted swing checks. Pricing for materials and labor are as follows.

Shinmaywa option

2-3hp 230-volt 3ph Shinmaywa submersible pumps	\$ 8610.00
1-CM Controls 3hp duplex control panel w/SCADA and FOG Rod level control system.	\$27,400.00

cont.

Buck Transformer with weather shield	\$4648.00
Guide rail system with Stainless Steel piping and rails valves and miscellaneous hardware.	\$12,558.00
Labor and expenses to install	\$18,400.00
Tax on materials	\$ 4124.24
Estimated freight	<u>\$ 1400.00</u>
Total	\$77,140.24

Barnes chopper pump option

2-5-hp 460volt 3ph Barnes submersible chopper pumps.	\$27,712.00
1-CM Controls 5-hp 460-volt duplex control panel w/SCADA and FOG Rod level control system	\$28,095.00
Guide rail system with stainless steel piping and rails valves and miscellaneous hardware.	\$12,558.00
Labor and expenses to install.	\$18,400.00
Tax on materials	\$ 5298.28
Estimated freight	<u>\$ 1000.00</u>
Total	\$93,063.28

Should you have any questions regarding this quotation please call Kurt at 650 589-9900.

Best regards

Kurt Hipp