



Layne Christensen Company  
721 W. Illinois Avenue  
Aurora, IL 60506

630/887-8941  
graniteconstruction.com

September 09, 2024

Mr. Robert Leible  
Superintendent of Water Production  
City of Aurora  
44 E. Downer Place  
Aurora, IL 60505-3302

Re: Aurora Water Treatment Plant  
High Service Pump #1 Modification Estimate

Mr. Leible:

Per your request, Layne is pleased to present this estimate to modify the Water Treatment Plant HP1 pump. If contracted, Layne will perform the work on a time and material basis per the attached Schedule B Work Order Form and will follow the terms and conditions of our Professional Services Agreement (PSA) with the City. The attached Work Order Form lists Layne's standard published rates.

The modification involves replacing the current 100 HP VSS motor with a US 125 HP VSS inverter duty motor, rehabilitating the discharge head as to be determined, replacing the epoxy coated 10" x 2 1/2" x 1 11/16" column assembly, and replacing the current Byron Jackson 4 stage 12 GM bowl assembly with a Byron Jackson 3 stage

The scope of the work will be

- Procure the new components.
- Remove the current HP1 pump.
- Clean and inspect the discharge head, install new mechanical seal, rehabilitate as required.
- Install pump, bump motor for rotation, couple mechanical seal to motor and line shafts, start and observe operation.

Estimates and material pricing for the described scope:

1. Remove and reinstall booster	\$24,000
2. Rehabilitate discharge head including new mechanical seal, estimate	\$ 5,000
3. Flowserve/Byron Jackson 3 stage 14GM bowl assembly	\$27,790
4. 10" x 2 1/2" x 1 11/16" epoxy coated column assembly	\$28,690
5. US, 125 HP, 3/60/460V, 1800 RPM inverter duty VSS motor	\$14,225
6. PSA Labor Discount, estimate	<u>\$(1,300)</u>
<b>Total Estimate</b>	<b>\$98,405</b>

All components, except for the US VSS motor, will be manufactured by Flowserve/Byron Jackson and will comply with BABA manufactured product requirements.

All prices are FOB Aurora, IL.

Lead time for all new components is 15 weeks.

Should the City wish to have Layne clean and inspect the removed components, for the possibility of retaining HP spare components, add an estimated \$5,000 to this quote. If so, Layne encourages the City to inspect the components with us in our Aurora yard. A Pump Inspection Report with observations, recommendations, and a repair cost estimate will be furnished at that time.

If you have any questions, or if Layne may be of any service, please do not hesitate to contact me.

Layne Christensen Company

A handwritten signature in black ink, appearing to read "W.M. Balluff". The signature is fluid and cursive, with a large, sweeping flourish at the end.

William Balluff, P.E.  
WRD Account Manager III

WORK ORDER



**Layne Christensen Company**

721 W. Illinois Avenue, Aurora, IL 60506; Phone (630) 897-6941  
 229 W. Indiana Ave., P.O. Box 489, Beecher, IL 60401; Phone (708) 946-2244

**SCHEDULE B**

Purchaser: CITY OF AURORA, IL  
 Job Location: AURORA WATER TREATMENT PLANT - HP1 PUMP MODIFICATION

**SERVICE RATES - EFFECTIVE OCTOBER 1, 2023**

	Straight Time		Overtime	Doubletime
	Per Hr.	8 Hr. Day	Per Hr.	Per Hr.
Serviceman w/hand tools	227.00	1816.00	340.50	454.00
Serviceman w/service truck and hand tools, or welder	270.00	2160.00	383.50	497.00
Helper	198.00	1584.00	297.00	396.00
Serviceman and 1 Helper	425.00	3400.00	637.50	850.00
<u>Small Rig or Winch Truck</u>				
1 Man Crew	282.00	2256.00	395.50	509.00
2 Man Crew	480.00	3840.00	692.50	905.00
3 Man Crew	678.00	5424.00	989.50	1301.00
<u>Middle Rig, Large Hoist or Flatbed Crane</u>				
1 Man Crew	295.00	2360.00	408.50	522.00
2 Man Crew	493.00	3944.00	705.50	918.00
3 Man Crew	691.00	5528.00	1002.50	1314.00
<u>Big Rig, Large Hoist and Poles, or Large Crane</u>				
1 Man Crew	337.00	2696.00	450.50	564.00
2 Man Crew	535.00	4280.00	747.50	960.00
3 Man Crew	733.00	5864.00	1044.50	1356.00
4 Man Crew	931.00	7448.00	1341.50	1752.00
Power Tong Usage, per 8 hour shift		475.00		
<u>Machine Shop/Yard Labor and Equipment</u>				
Machinist and Equipment	209.00	1672.00	304.00	399.00
12" Threading Machine and Operator	235.00	1880.00	330.00	425.00
Serviceman w/hand tools	190.00	1520.00	285.00	380.00
Helper	185.00	1480.00	277.50	370.00
Sandblast Equipment and 2 man crew	425.00	3400.00	612.50	800.00

Mileage: Auto: \$0.65      Pickup: \$0.90      1-Ton: \$1.35      2-1/2 Ton Flatbed: \$2.50      Semi-Tractor: \$4.00

Subsistence-Per Man

Over 55 miles radius from home office.....\$72.00 + Hotel

REMARKS:

SUBMITTED WITH ESTIMATE OF 09/09/2024

Work Authorized on Behalf of Purchaser By: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_