

MEMO

Date: May 27, 2021
To: Trevor Walter
From: Mark Hallan
Cc: Aric Welch
Project Name: Water Treatment Plant
Project No.: 2021-10311
Subject: Interconnect Building Modifications

Brainerd/Baxter
7804 Industrial Park Road
PO Box 2720
Baxter MN 56425-2720

218.829.5117
Baxter@Widseth.com
Widseth.com

We have completed our review of the chlorine feed booster pump. The pump needs to develop around 255 feet of total dynamic head or 110 psi to allow a chlorine feed rate of 50 pounds per day at a flow rate of 2,200 gpm. The 110 psi figure is based on the suction line being 40 psi and the discharge line at 90 psi which is a 50 psi difference. The chlorine injection needs a 50 psi differential to work properly at the target flow and chlorine feed rate.

To achieve the required pressure differential, it is necessary to upsize the existing chlorine feed booster pump. Below are the quotes to provide/install a new pump and to make the necessary electrical modifications for the larger HP pump motor.

WW. Goetsch	\$3,032
<ul style="list-style-type: none">• CR 3-9 1.5 HP 3 Phase Pump• 1 ¼" Flange Set• Freight• Install	
Holden Electric	\$4,950
<ul style="list-style-type: none">• 208 volt VFD• Conduit and wire	

The total estimate cost for a new chlorine feed booster pump capable of meeting the target feed rate of 50 pounds per day at flow rate of 2,200 gpm is \$7,982.

City staff had the chlorine feed booster pump suction and discharge lines replaced with larger PVC lines by Tim Thompson Plumbing and Heating. The total cost of the piping replacement project was \$3,860. Additional engineering and coordination for the chlorine feed booster pump upgrades was \$1,008. The total of all costs for the chloring feed booster pump system upgrade is estimated at \$12,850.

Aric Welch

From: Steve Green <SGreen@wwgoetsch.com>
Sent: Friday, May 27, 2022 8:25 AM
To: Aric Welch
Subject: RE: Baxter Chlorination Station

1- CR 3-9 1.5 HP 3Phase. \$ 2244.00 Net each
1- 1¼" flange set. \$103.00 Net each p
1- Prepaid freight
Total.....\$2532.00
Install..... \$500.00
\$3032.00

Thank you!
Dominus vobiscum!

WWGOETSCH
ASSOCIATES, INC.

Steven P. Green
Sales Engineer
952-374-6471 direct office
612-325-7550 mobile



7669 College Road PO Box 2688 Baxter, MN 56425 Phone: 218-829-4759
Email: RPraught@holdenelectric.com

Bid Proposal

5/18/2022

TO:

Aric Welch

JOB:

Baxter Transfer station chlorine pump
Bid Date: 5/18/2022

WORK DESCRIPTION: VFD for chlorine pump
Additional Info:

Supply and install new 208 volt VFD for new chlorine pump.
Supply and install conduit and wire for control.

We will supply and install all materials, labor and equipment as per drawings, specifications, addenda and as noted above inclusive for the total amount of: **\$4,950.00.**

Respectfully,

Accepted by:



Randy Praught, PM / Estimator
Holden Electric Co., Inc.

Print Name: _____

Aric Welch