



where people matter

City of Loganville

Public Utilities
Brandon Phillips
Director
P.O. Box 39
Loganville, GA 30052
Tel: 770-466-3240

Staff Report Department of Public Utilities

To: Honorable Mayor Baliles, and Members of the City Council

Through: Danny Roberts, City Manager

From: Brandon Phillips, Director of Utilities

Date: April 10, 2025

Subject: (Emergency) Twin Lakes Electrical Panel Repair

RECOMMENDATION:

The Utilities Department recommends that City Council approves the repairs of the main electrical panel for the Twin Lakes Booster Station. The work will be performed by Goforth Williamson, Inc. Due to failure of this Variable Frequency Drive (VFD), this will be an emergency repair. Due to the level of urgency, we need immediate approval to proceed with the repair.

Total costs for the repair is \$27,972.00.
Line item 505-4400-522205

BACKGROUND:

The original (VFD) failed for unknown reasons, and we had issues finding someone to repair due to its age and being proprietary. GWI can install a new VFD that will no longer be proprietary and any electrician in the future can repair or program the unit if issues arise. The Programming Logic Controller (PLC) will also be retrofitted and programmed to work with the new VFD. We currently only have one side (two pumps) of the booster station operational. In the event The City of Monroe cannot provide us water, Twin Lakes Booster station will struggle to keep up with demand, resulting in Gwinnett County valves to open and assist with providing us water.

QUOTATION

Goforth Williamson, Inc
373 Odell Road
Griffin, GA 30224
US
(770) 467-0303



Quote Number	
10543926	
Quote Date	Page
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Quote Expires On: 04/27/2025

BILL TO:

City of Loganville
PO Box 39
Loganville, GA 30052
US

SHIP TO:

City of Loganville
PO Box 39
Loganville, GA 30052
US

770-466-1306

Requested By: Mr. Brandon Phillips

Customer ID: 713199

Project Ref: Tank Fill VFD and PLC Retrofit

PO Number		Carrier Name		Sales Rep	
				JGBOS GWI	
Quantity		UOM	Item ID Item Description	Unit Price	Extended Price
Ordered	Remaining				
1.00	1.00	EA	GW1 CONTROLS RETROFIT CONTROLS RETROFIT	27,972.0000	27,972.00

PLEASE NOTE:

1. Freight: FOB Origin, ground freight prepaid and charged to curbside of first location.
2. Price "does not" reflect Sales Tax, Documentation, Drawings, or Special Paperwork.
3. We can now accept Visa, Mastercard, American Express and Discover. Please contact us if you would like to pay via credit card.
4. Please reference Quote on Purchase order and send your Purchase orders to PurchaseOrders@GoforthWilliamson.com



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(770) 467-0303



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Quote Date	Page
03/28/2025	2 of 3

Quote Expires On: 04/27/2025

Quantity Ordered	Quantity Remaining	UOM	Item ID Item Description	Unit Price	Extended Price

Order Line Notes:

Parts included:

- (2) Danfoss FC-202 VFD, 60 hp, 480V
- (2) Danfoss LCP remote mounting kit for door mounted keypad
- (2) Danfoss 6-year on site Drive Pro-Tection warranty
- (1) Click Plus PLC CPU
- (1) Click Plus Discrete/Analog combo module
- (1) Click Plus Discrete combo module
- (1) Click AC power supply
- (1) C-More CM5 Touchscreen HMI, 7" color LCD
- Modified schematic drawings to be provided to show PLC and VFD wiring connections
- GWI tank filling program is the property of GWI and is not to be reproduced or modified without GWI's permission
- Installation hardware, programming cables, control conductors, CAT-6 patch cables, and other consumables included

Work included:

- PLC programming to provide an automated tank filling program with user adjustable set points, alarms, and displays
- Travel to customer site
- Isolate power to panel, lock out
- Remove existing Siemens VFD's
- Install new Danfoss VFD's
- Make all power and control terminations to new VFD's
- Remove existing Siemens PLC
- Install new PLC hardware and HMI
- Full startup and commission on new PLC and VFD's
- Work with customer to establish proper setpoints for pump start and stop and any alarm levels
- Setup VFD's for seamless automatic operation from PLC controller
- Test system for proper operation and fail safes
- Clean up panel wiring
- Show customer how to navigate the HMI menus and adjust settings if required for condition changes in the future
- Haul off any old equipment the customer does not want to keep
- Check out with customer

*Pumps must be able to be taken out of service and main power feed ahead of control panel must be electrically disconnected during work to be performed.

Upon the above Scope of Work, should any additional work or additional parts not listed above be required, a revised Scope of Work and quote will be submitted. No additional work will be performed, or additional parts supplied prior to approval.

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Quote Date	Page
03/28/2025	3 of 3

Quote Expires On: 04/27/2025

Quantity		UOM	Item ID Item Description	Unit Price	Extended Price
Ordered	Remaining				

Total Lines: 1

SUB-TOTAL: 27,972.00
TAX: 0.00
AMOUNT DUE: 27,972.00
U.S. Dollars

PER YOUR REQUEST, WE ARE PLEASED TO QUOTE THE FOLLOWING

Goforth Williamson
373 Odell Road
Griffin, GA 30224
PurchaseOrders@goforthwilliamson.com

Quote Valid for 30 Days

Payment Terms: Net 30

F.O.B.: Origin

Quoted By: MICHAELTOWSON

Email: MichaelT@goforthwilliamson.com

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