

# QUALITY FLOW SYSTEMS, INC.

800 6<sup>th</sup> Street NW  
New Prague, MN 56071

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January 20, 2026

To: SEH  
Attn: Neil Heinonen

Subject: City of Baxter  
Lift Station 27

Dear Neil;  
Please find below our equipment proposal for lift station 27.

## Lift Station #27:

- Two (2) "KSB" Model F80-180/036F4YSG, 4.83hp, 230/3, heavy duty submersible pumps capable of pumping 200 gpm @ 39' TDH. To include:
- 50' of power cord
  - 3" X 4" base discharge elbow
  - Guide claw
  - Leakage and motor overtemp sensor
  - 30' - Stainless steel lifting chain
  - Pump safe modules for the control panel
  - Stainless steel upper bracket
  - 2" X 6" intermediate guide brackets
  - 100' - 2" stainless steel guide pipe
- Two (2) "Halliday" Model H1R3054, H-20 rated aluminum access cover with oversized lock box per the city's standard.
- One (1) Duplex pump control panel for operation on 120/240 Volt, 3-Phase, 4-wire, 60-Hz incoming service. The enclosure is 1-door; pad-mounted, NEMA 3R, 304 Stainless Steel, measuring approximately 48"H x 36"W x 16"D with 18"H leg-stand system. 3-point pad-lockable handle and steel (painted white) component chassis will be provided. The system will provide control for two (2) 4.83 HP KSB submersible pumps in response to wetwell level as sensed by submersible level transducer (primary) and float switches (back-up).
- To include:
- | <u>Qty</u> | <u>Major Component; Description</u>   |
|------------|---|
| 1          | CB; Main Disconnect; 240VAC; 100A; Service Entrance Rated                           |
| 1          | CB; Emergency Disconnect; 240VAC; 100A; Interlocked with Main                       |
| 1          | Generator Receptacle; 100A; with angle adapter (Crouse-Hinds AR1041-S22)            |
| 2          | CB; Pump breaker; 240VAC; 30A   |
| 2          | Soft-starter; A-B SMC-3; sized for motor loads; includes built-in bypass contactors |
| 2          | Phase Monitor; (one for each pump)  |
| 1          | Surge Arrestor; 3-Phase   |
| 1          | Breaker; 1P; 10A (control power)  |
| 3          | Breaker; 1P; 15A (GFCI; yard light, spare)  |
| 1          | Convenience Receptacle; GFCI  |
| 1          | Switch for yard light   |
| 1          | Heater; Fan-forced; Thermostatically controlled                                     |
| 2          | Light-Pilot; P-T-T; 120VAC FV; Green Fresnel Cap (pump running)                     |
| 2          | Light-Pilot; P-T-T; 120VAC FV; Amber Fresnel Cap (seal failure)                     |
| 5          | Light-Pilot; P-T-T; 120VAC FV; Red Fresnel Cap (Various pump fails, hi level)       |
| 3          | Push Button; (pump reset; back-up reset)  |
| A/R        | Control Relay; 3PDT; 120VAC; w/ Indicating Light (includes socket)                  |
| 1          | Ground Lug; 3-Conductor   |
| 1          | PLC; QCI Model 1500ct; color touchscreen (Primary)                                  |
| 1          | Model ISS-105 float controller (Back-up)  |
| 1          | Strobe Light; Red   |

	3	Run-time Meter (each pump & simultaneous)
	1	Window kit over Run-time Meters
	1	Radio & coaxial surge arrestor
	1	Uninterruptable Power Supply; with mounting shelf
A/R		Terminal Block; Single; 18-10AWG
	<u>Qty</u>	<u>Loose Equipment &amp; Instrumentation; Description</u>
	1	Submersible Transducer; 4-20mA Loop powered; 60 ft cable
	2	Float Switch; Suspended; Non-mercury; 60 ft cable
	1	Coaxial cable (100'), & connectors
One	(1)	Stainless steel J hook
Two	(2)	Stainless steel cable rack
One	(1)	Start-up and training.
One	(1)	Freight to the jobsite

**Total Delivered Sell Price - - \$58,650.00**  
**(Freight Allowed to Jobsite)**

**Notes:**

- Installation is by others.
- Antenna mast and luminaire are by others.
- Antenna is by others.
- Programming of SCADA is by others.

If you have questions or require more information, please give us a call.  
Thank you for the opportunity.

Sincerely,

*Patrick Malay*

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