

PROPOSAL

Variable Speed Pump Station

Date: 5/30/2023

Project: Giddings GC

To: Bowlin Consulting

Quotation Number:
MCI05032023GIDD

Location: Gidding, TX

Quoted by: DB/M

Requirements: 1000 GPM at 110 PSI at station discharge

Supply Power: 480/3/60

Suction Lift: 1'

PROPOSAL SCOPE

1 Ea MCI UL Listed QCZJ Packaged Pump Station
Part Number PPS-N-ES2-1000-110-SV-P-48-3-6

UL Listed pump Station complete with pump base, sch40 steel manifolds, isolation valves, close coupled pumps/motors, check valves and discharge flow meter. Standard APC controls with single VFD drive and alternating contactors so each main motor may run XL or VFD. Built under ISO9001:2015 certification.

APC Standard Controls

- UL 508a Listed Control Panel
- Short Circuit Current Rating 100 ka
- NEMA 3R Enclosure
 - 3 Point Latch
 - Carbon Steel w/ Powder Coat Finish
- UL Listed heat exchanger
- 200-amp Main Fused Disconnect
- Type 1 Surge Protection w/status indicators
- Incoming Line Phase Monitor w/primary fusing
- PM Pump 5 HP
 - Class J fuses/block per contactor
 - AB Interlocked Contactors w/1 AB SS OL per main motor
- 2 Ea. Main Pump 60 HP
 - 60 Ea. Variable Frequency Drive w/high speed JKS fuse protection
 - 3 ½% DC Input Link Reactor
 - Door Mounted Keypad

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- 60 HP 6 Year Warranty on VFD which includes coverage against damages from momentary line or load anomalies such as lightning strikes.
 - Class J fuses/block per contactor
 - AB Interlocked Contactors w/1 AB SS OL per main motor
- AB Micrologix 1400 PLC Platform
- AB 6" Panelview +7 Color HMI
- Inhand Network Switch with Modem
- AB DC Power Supply
- AB "Full Size" 30 mm N4 Door Devices
 - Green Illuminated Switch per pump
 - System Switches: System Control, Low Discharge, VSD Bypass, Speed Pot and Red Illuminated Fault Push Button
- GFCI Outlet
- Control Power Transformer w/primary fusing
- Flow Signal Input: Pulse
- Lake Level Controls
 - HOA Selector Switch
 - Level Transmitter
- Fertigation Relay
- 1 Ea. Wye Strainer Flush Controls with Door Switch
- 1 Ea. Normal Duty Vacuum Reprime Circuit w/ Door Switch
- Safeties:
 - Loss of prime
 - High pump temperature
 - Motor space heaters
 - Low discharge pressure shutdown
 - High discharge pressure shutdown w/auto restart
 - VSD fault with auto restart
 - Solid State Overload shutdown per motor
 - Phase Failure, Imbalance and low voltage protection
- Operation Features
 - Automatic alternation of pumps based on least run time
 - Intelligent Slow Ramp feature for automatic line fill
 - VFD Bypass
- 6" Color Touch screen interface
 - 3 Year Flow Total Logging Day/Week/Month/Year
 - Pump Run Times
 - Event Log
 - Flow and Station Trending
 - Assignable I/O
- **APC Remote Cell Monitoring w/1 Year Activation**
- **Cell Connect for Single Pump Station Connection to Irrigation Central**
- **Factory support remote access to PLC/HMI and VFD for programming and troubleshooting**

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Instrumentation

- SS Pipe Mounted Pressure Transducer with local indication LED display
- DI220B Flow Sensor
- 4" Pipe Mounted Pressure Gauge/s w/316SS isolation ball valve

Pumps

- 2 Ea. 60 HP close coupled end suction pumps, **(68.32% Efficiency)**, each rated for 500 GPM @ 285' TDH including station losses. To include;
 - Bronze Impellers
 - Steel Shafting
 - Mechanical Seal
 - 60 HP, 1800 RPM, 480/3/60, premium efficient, Horizontal Shaft Motors wired for motor space heaters.
- 1 Ea. 5HP Vertical Multistage Pressure Maintenance Pump

Isolation Valves

- 6" Station Discharge isolation butterfly valve w/gear operator, 316SS disc and EPDM elastomers, fusion bonded body, rated for 250PSI.
- 2" and 6" Grooved Pump Isolation Valves with lever actuator.
- 2" and 6" Pump silent wafer check valves coated with fusion bonded epoxy and SS disc.
- 316SS threaded ball valves, 1.5" and below

Relief Valves Standard

- Fusion Bonded Epoxy Inside/Out w/ Bronze Trim
- ClaVal 50-01 3" station pressure relief valve with bronze trim, piped to suction manifold with Discharge isolation butterfly valve w/lever operator, SS disc, EPDM elastomers, fusion bonded body and cover plate air release ball valve

Station Wye Strainer

- 8" cast iron wye strainer with SS screen and auto flush assembly, Fusion bonded body.

Skid

- Channel skid system
- Steel Grit blasting to SSPC-6 of station structural steel.
- PPG Enviroacryl Zinc epoxy powder coat Primer
- Poly Powder coated non-skid paint system

Piping

- Sch40 Station piping
- 10" Station suction manifold
- 8" Station discharge manifold
- 6" Station flowmeter spool

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- Hose Bibb connection
- Steel Grit blasting to SSPC-6 of station piping.
- NSF61 fusion bonded Epoxy powder coating of all piping 3" and above internal and externally.
- Piping 2" and below to be 304SS
- 30' DR17 HDPE Pipe, 10", w/ Foot Valve

Transition-Pipe

- 10" Flanged X 10" Flanged Inlet transition pipe with 90-degree elbows and swivel
- 6" Flanged X 10" Flanged Discharge transition pipe with 90-degree elbows and swivel with 5 Ea. 3/4" thread-o-lets before elbow, 1 Ea. 3/4" thread-o-let after elbow above grade, and 1 Ea. 2" winterization fitting

On Site set supervision, Start up and training not included in pricing.

EQUIPMENT ONLY PRICE: \$117,250.00 excludes freight

Pricing does NOT include any installation, crane charges, taxes unless otherwise noted.

PMTS- SET AND STARTUP (2 TRIPS): \$8,920.00

***Customer responsible for any permits if required.**

***Customer responsible for discharge connection and thrust block to irrigation.**

***Customer responsible for Electrical service to station.**

***Customer responsible for crane service (will provide weight)**

Price valid for 15 days

FOB: Dallas, Texas

Lead Time: 22-24 weeks following approved drawings

Deposit: Minimum deposit 50%, balance based on credit status

MCI Flowtronex reserves the right to substitute alternate products for any named brand products based on availability.

Optional Adders (Not included in price):

Shelter **\$46,215.00**

- Powder coated marine grade aluminum skid mounted shelter
 - Shelter powder coating to be Weather Green or Toshiba Tan
- Gabled Roof
- Lockable Access Doors with Door Stop
- Intake and Exhaust Louvers
- External Service Entrance Rated Disconnect
- 5KVA Power Pack
- Heater with Thermostat Control
- Exhaust Fan with Thermostat Control
- LED Lights with Light Switch

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- 1 Ea. GFCI receptacle

6-year warranty on Variable frequency drive (Includes lightning damage coverage and labor to replace) **\$2,085.00**

6 Year Warranty on ALL COMPONENTS IN ELECTRICAL PANEL, Inclusive of power related damage such as lightning. Includes parts only. **\$2,859.00**

Additional Warranty items

- **Warranty Includes crane if needed**
- **2-year warranty on Station**

TERMS AND CONDITIONS OF SALE

All sales by and purchases from MOTOR CONTROLS INC., (Seller) are governed by the following terms and conditions:

1. All purchases and credits occurring after the closing date of a month will appear on the periodic statement for the next month. Payment shall be made to the Seller in U.S. currency at its offices in Dallas, Dallas County, Texas.
2. All purchase orders are subject to acceptance at Motor Controls Inc, Dallas, Texas. The following terms shall govern unless superseded by revised terms in the proposal body. Receipt of Production deposit, verification of acceptable credit and confirmation of design are required before production. On domestic orders deposit is required to initiate the order with the deposit due upon receipt. Deposit required to be determined based on credit analysis. For international orders, either an Irrevocable Letter of Credit (ILC) drawn on a U.S. Bank, with all costs of the ILC borne by the purchaser, is required for the full amount of purchase at time of order, or cash in advance.
3. In all cases if customer is unable to accept delivery once fabrication, assembly and testing are completed at the factory MCI shall invoice the total balance due. Customer shall agree to coordinate with MCI for storage arrangements and/or additional storage charges as deemed appropriate and necessary.
4. Late fee of 1.5% per month will be added to any balance due after thirty (30) days from the date of invoice. All payments and/or credits are applied to the outstanding balance before computing a finance charge.
5. All Orders shall be F.O.B. Dallas, Texas.
6. State, city and local taxes are excluded from the contract price unless otherwise noted. Sales tax will be invoiced on the contract price unless written exemption is provided.
7. Prices valid for 15 days from date of proposal unless otherwise noted.
8. Orders regularly entered, whether verbal or written, can only be cancelled in writing by the Buyer upon terms that will compensate the Seller against loss. Any additional paperwork furnished at the Buyer's request, such as sketches, drawings and specification sheets will be charged at Seller's cost.
9. Any claim for defects, damages or shortages of an order delivered must be made by the Buyer in writing and delivered to Seller within a period of ten (10) days after delivery. Failure to make such claim within the specified time constitutes an acceptance and admission that the order fully complies with the terms, conditions and specifications required. The Seller's liability shall be limited to the stated selling price of any defective goods and shall in no event include special or consequential damages, including profits (or profits lost) or loss of use. Seller shall not be liable to buyer or any other person for any liability, loss, or damage caused or alleged to be caused, directly or indirectly, by the pumping package. Seller makes no warranty, whether express or implied, with respect to fitness for a particular purpose or merchantability of the pumping package or component

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10. The Buyer bears the risk of loss of or damage to or destruction of the goods from the time of delivery. The Seller retains title to the goods until the Buyer pays the entire purchase price as specified plus any interest thereon. If requested by Seller, Buyer shall execute a security agreement and financing statement evidencing Seller's security interest in the goods delivered to Buyer
11. If the credit of Buyer in the judgment of the Seller becomes impaired at any time, the Seller has the right to require payment in advance before making further shipments, and to demand immediate performance of the Buyer of all obligations imposed upon him by this agreement.
12. If there is any breach of or default under this agreement and if the same is placed in the hands of an attorney for collection, or if collected by lawsuit or through the probate or bankruptcy court, or if any action of foreclosure be had hereunder, Buyer shall be liable for reasonable attorney's fees incurred by the Seller. In the event of default by Buyer, Seller may immediately proceed to enforce payment of Buyer's obligation and exercise all the rights and remedies provided by the Business and Commerce Code of the State of Texas, or the Uniform Commercial Code, as well as any other rights and remedies afforded to Seller by law. Should Buyer be in default, Seller may require Buyer to return all goods previously delivered to Buyer by Seller, and any subsequent expenses for retaking, holding, preparing for sale, and reselling of such goods shall be at Buyer's expense. Funds realized from such resale shall be credited to Buyer's unpaid account.
13. The Seller, or any credit bureau or investigating agency employed by the Seller, is hereby authorized to investigate the references herein listed or statements or other data obtained from the Buyer or from any other persons pertaining to the Buyer's credit or financial responsibility. The Buyer has read and understands the foregoing terms and conditions of this application for credit and has signed the same as an indication of intent to enter into an agreement with Seller for the future purchase of goods and services from time to time. The Buyer also understands that upon acceptance of this application by the Seller, this document constitutes an agreement between the Buyer and the Seller for payment of debts owed to the Seller in return for the delivery of goods ordered or performance of services requested by Buyer.
14. The terms herein contained shall be governed by the statutes of the State of Texas, and specifically the Business and Commerce Code of the State of Texas and the Uniform Commercial Code. In the event that any account owing by Buyer to Seller becomes delinquent, and legal proceedings are instituted for collection of said account or indebtedness, such legal proceedings may be instituted and prosecuted against Buyer and its guarantors, if any, in any Court in Dallas County, Texas, and the undersigned expressly agrees that venue for such proceeding shall be in Dallas County, Texas, even if the principal offices of the Buyer are located in another county within this state or outside of this state.
15. **SELLER DISCLAIMS ANY WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE MERCHANTABILITY OF THE GOODS DELIVERED TO BUYER NOR THE FITNESS OF SUCH GOODS FOR A PARTICULAR USE UNLESS A WRITTEN WARRANTY IS GIVEN TO BUYER BY SELLER AT TIME OF DELIVERY.**
16. Seller warrants that the water pumping system or components will be free of defects in Materials and workmanship for 2 years from date of authorized start-up but not later than 27 months from date of invoice;

Provided that all installation and operation responsibilities have been properly performed and documented. Seller will provide a replacement part or component during the warranty life. Repairs done at Seller expense must be pre-authorized. Upon request, Seller will provide advice for troubleshooting the system.

This proposal contains equipment that may require costly means to remove or replace based on site conditions. Seller will not accept liability for costs associated with the removal or replacement of equipment in difficult to access locations. This includes but is

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not limited to the use of diving services, barges, helicopters, or other unusual requirements.

Default of any agreement with Seller or;

- a. The misuse, abuse of the pumping package outside its intended use.
- b. Failure to perform required maintenance service.
- c. Pumping water not suitable for irrigation.
- d. Exposure to electrolysis erosion.
- e. Water salinity in excess of 2000 parts per million.
- f. Water from a reverse osmosis plant without countermeasures in place.
- g. Water with a Langelier Index less than -0.5 and greater than +1.5
- h. Presence of destructive gaseous or chemical solutions in our around the packaged system.

17. The terms contained herein may be modified only by written agreement signed by Buyer and an officer of Seller, MOTOR CONTROLS INC.

Is this sale Taxable? (Circle one) YES NO

(If non-taxable please provide tax exempt certificate for the "ship-to" state)

****Please fill out fields below and return all pages.****

Date: _____ Total Purchase Amount: _____

Buyers Name: _____

Buyers Signature: _____

Email order confirmation to: _____

Requested ship date: _____

Deliver to: _____

Delivery address: _____

City _____ State _____ Zip _____

Delivery contact name: _____

Delivery contact number: _____

Delivery contact email: _____

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Cell Modem Acknowledgement

MCI Flowtronex provides a state-of-the-art cell communication service designed to give the user premium functionality from anywhere that has an internet connection.

Our Remote Cell Monitoring Package includes the following features:

- The ability to provide a remote connection utilizing any smart phone, tablet, or PC that is capable of connection to the internet.
- nSite allows for flow report totals to be automatically emailed to the user once a month in an easy to use excel format.
- If the pump station has multiple flow zones the system will display flow totals for each zone in different tabs for more simple navigation.
- Remote management of the pump station includes performance tuning to each individual system's needs to further improve efficiency and reliability of our product.
- nAlert will send prompt notifications about maintenance due dates for all aspects on the pumping station along with alarm alerts.
- Free critical software updates to ensure you are getting the latest features and security.
- This agreement while in effect includes remote factory support at no additional cost to assist with the operation, troubleshooting, and tuning of the control system. This service often eliminates unnecessary service calls.
- Allows our support staff to access and troubleshoot 24/7 with full access to HMI, PLC and VFD from the MCI offices.
- Remote Training opportunities for new staff or refresher for existing staff.

These benefits are offered to you if the cell package is active. Your pump station includes one year of cell connection unless otherwise indicated. You will be invoiced for renewal 30 days prior to the end of your term. Invoice are net 30 days. Service shall be terminated for non-payment. If you chose to not renew, please notify MCI Flowtronex. If service is terminated for any reason a reconnection fee of \$375 shall apply plus any un-paid balance. Cell communication is only available for intended use. Un-authorized connections are subject to additional charges.

Responsible Party Billing Information

Bill to Company: _____

Street Address: _____

City: _____ **State:** _____ **Zip:** _____

Contact Name: _____

Accounting Contact Name: _____

Phone: _____

Email: _____

Signature: _____

Customer Email Address for VPN Token: _____

By signing above, I the signee, am acknowledging all the above information and understand that I will be billed after the end of the original terms of service then every 12 months.

Contact MCI To Pay by Credit Card

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