

TEKIPPE ENGINEERING, P.C.

Engineers – Land Surveyors

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FAX 563-927-3603

128 S. VINE STREET
WEST UNION, IA 52175
PHONE 563-422-5131
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ADDENDUM NUMBER ONE
NORTH LIFT STATION IMPROVEMENTS
CENTER POINT, IOWA
Project No. 05006.MS
April, 2010

A. PUMPS, CONTROL PANEL AND MISCELANEOUS QUOTATION

Following is a quotation from Electric Pump for the proposed pumps, control panel and miscellancous equipment for the lift station, along with the total quote price of \$94,202.00. Supplier has agreed to the minor changes included in the quotation. Contractor is to include use of this quotation in his bid to provide OWNER with project components conforming with previous projects and familiar operation.

B. PUMP COMMUNICATIONS PANEL.

Following is a quotation from Automatic Systems Co. for station communication provisions, with a total quote price of \$27,850.00. Supplier has agreed to modifications to the quotation per indications. Contractor is to include use of this quotation in his bid to provide OWNER with project components conforming with previous projects and familiar operation. Any negotiated adjustments in the total price of the quotation due to indicated modifications of the quotation will be reflected, dollar for dollar, in a contract change order with the successful bidder of the project.


C. FLOW METERS

Flow mcters are not included in either the Electric Pump or the Automatic Systems Co. proposals. The combining of the output signals from the two meters is incorporated into the PLC unit and programming of Automatic Systems Company. Contractor is responsible for the physical connections of the meters to the communication system.

C. ACKNOWLEDGEMENT

Contractors are reminded to acknowledge this addendum on Page FP-1 of their bids.

D. CERTIFICATION

	<p>I hereby certify that this engineering document was prepared by me or under my personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p>
	<p><i>George L. TeKippe</i> _____ <u>5-24-10</u> George L. TeKippe Date</p> <p>License number 8090 My license renewal date is December 31, 2011. Pages covered by this seal: All</p>

**ELECTRIC PUMP**

4280 E 14th Street
 Des Moines Iowa 50313
 800-383-7867
 Fax: 515-265-8079

5/21/2010 Bids 5/26 at 1:00

Project: North Lift Station Improvements
Location: Center Point Iowa

Engineer: TeKippe Engineering
Attention: Lucas
Email: lclsbernd@tekippe.com
Phone: 563-927-2060

Regarding the above project, Electric Pump is pleased to submit this proposal for the following equipment.

Two (2) Flygt submersible pump model NP3153 433 impeller. This pump will deliver appx 1695gpm @ 30.3TDH, at 1755 rpm. An air filled 20hp, 200-volt, 3 phase Explosion Proof motor will drive the pump. FLS and 50' of cable included. The impeller will be Class 35B gray cast iron, dynamically balanced throughout. Standard Flygt paint.

One (1) Flygt submersible pump model NP3102 464 impeller. This pump will deliver appx 337gpm @ 25.6TDH, at 1720 rpm. An air filled 5hp, 200-volt, 3 phase Explosion Proof motor will drive the pump. FLS and 50' of cable included. The impeller will be Class 35B gray cast iron, dynamically balanced throughout. Standard Flygt paint.

Accessories:

Two (2) 6" Discharge Elbow (Eccentric reducer if required is by the contractor)
 One (1) 4" Discharge Elbow (Eccentric reducer if required is by the contractor)
 Six (6) 2" SS guide rail, 2 per pump (based on a depth of 18.5' or less)
 Three (3) 2" SS upper guide bar bracket (standard bracket only)
 Three (3) SS cable holder
 Four (4) SS Cable assembly – leave attached to pumps & trash basket
 Three (3) Mini Cas for thermal and moisture monitoring (will be in panel)

One (1) Aluminum access hatch for pumps, S2R7236
 One (1) Aluminum access hatch for trash basket, S1R2442
 One (1) Aluminum access hatch for valve vault, S1R3030
 One (1) Aluminum trash basket model B1B with aluminum rail
 One (1) Therm Hoist model 5124E2 – No Cable to remain on hoist

Two Float Switches with emergency operation of one 20 HP pump upon failure of PLC-Transducer System.

*Cable is quoted above to remain on each pump and trash basket.
One (1) Pedestal Base

Unit A – North Lift Station Triplex Powerpack Pump Control Panel

One (1) Model A1000i/LC3000 Triplex (2 VFD, 1 CS) pump controller housed in a NEMA type 1 enclosure suitable for wall mounting. This panel will operate on 208 volt, 3 phase, 3/4 wire, 60 hertz incoming service. Unit will monitor wet well level via remote mounted loop powered submersible level transducer and provide triplex CS/VFD based pump down control for one 5 HP CS motor and two 20 HP VS motors. Unit will monitor two 4-20 mA signals representing force main flow rates for use pump control algorithm, local rate and totalized display. Unit will provide contact closure outputs representing station alarms for loss of power, VFD/Motor Failure, High Level, and Low Level alarms for interface to monitoring by others. An alarm horn and indicator light shall be furnished for remote mounting, by others. Alarm horn and light shall be activated and powered from the control panel. Unit includes feeder breakers for local external loads including: External Outlets, Building Lights, Fan, Lift Crane and two spare for future use. Unit includes battery backed up operation for level sensing and alarm activation systems.

TO INCLUDE:

Description

- Enclosure 60" x 36" x 12" NEMA 1 w/Chassis
- Circuit Breaker, 3 Pole, 200 Amp Trip – Main
- Lightning Arrestor 250V 3 Phase
- Power Monitor
- Circuit Breaker, 3 Pole, 30 Amp Trip – 5 HP Motor
- FVNR Motor Starter NEMA Size 1 MS w/O.L., Auxiliary Contacts, Electronic Reset
- Circuit Breaker, 3 Pole, 100 Amp Trip – 30 HP Motor
- VFD Sized For 20 HP Motor @ 208 Volt, 3 Phase
- Circuit Breaker, 1 Pole, 2 Control Power, Fan, External Receptacles, Building Lights, Lift
- Crane, 2 Spare
- Mounting of MiniCAS - Door Type Units
- Elapsed Time Meter
- Indicator Light, FV PTT – 3 Pump Required, 3 Pump Run, 3 VFD Fail
- Selector Switch – 3 Position – Hand-Off-Auto – Motor 1, 2, 3
- Potentiometer – Speed Adjustment (Operates When VFD in Hand Mode)
- Push Button – Motor Starter OL Reset and Alarm Horn Silence
- Power Supply 12 VDC
- Battery Charger
- Battery 12V @ 18AH
- ~~Model LC3000~~ Logic Controller w/Operator Interface (Allen-Bradley)
- Expansion I/O Modules – 16 DI, 8 DO, 8 AI, 4 AO

- Relay 3PDT w/Base
- Model IsoLink Analog Isolator w/Loop Power Supply -- Wet Well Level, Force Main 1 & 2 Flow Rate
- Model IS2-2 Intrinsic Safety Barrier 4-20, A1000i compatible
- Breather Bag - A1000i
- 100W heater w/80F Cutout Thermostat - Condensation Protection
- UL Serialized Label
- Wire Numbers
- **Items Shipped Loose for Remote Mounting By Others**
- Model 1000i Loop Powered Submersible Level Sensor w/15 PSI Xdcr and 60 Ft. Cable
- Model A1000 Suspension Kit w/31 Ft. 316 SS Cable
- Alarm Strobe Light, Red, Weatherproof
- Alarm Horn Vibrator Type Weatherproof
- Lot factory field services to place above units into operation and provide system training.

The above Item A, FOB factory with freight allowed to Centerpoint, Iowa including, approval drawings and data; O & M maintenance manual, programming/configuration; on-site startup services, owner instruction training, and ~~one (1)~~ year warranty from date of startup. (Two Year)

Warranty: Flygt standard 5 year pro-rated per the accompanying sheet.

Total Quote: \$ 94,202.00

This price does not include tax, but does include freight and start up.

If you have any questions or concerns, please feel free to call at 1-800-383-7867. Thank you for your consideration.

Sincerely,



Steve McIntyre

Notes:

Anchor Bolts, Junction Box, Valves, Gauges, Piping and anything not specifically mentioned in the above quote will be by the contractor. This quotation is based on our interpretation of the plans and specifications received at time of this proposal. This quote includes only material and services listed, and is subject to the correction of errors due to vague specifications. Deviation from our proposal, either official or otherwise, shall modify these prices.

Other Items not included in the proposal are and Owner's existing telemetry system modification including radios, antenna, cables and SCADA modification which may be required for alarm functions. We have the necessary output contact to provide specific alarms as required

All items not indicated above are either existing, provided by you, or through other vendors. The following is a partial list of that equipment:

~~Lifting Crane~~

- Fans
- Transfer Switch
- Telemetry Equipment/Modifications To Existing Systems
- Flow Meter Equipment

Date: May 20, 2010

To: All Selected Bidding Contractors

Reference: North Lift Station Improvements

Location: Center Point Iowa

Delivery: 10 - 11 weeks after submittal approval (Submittals 3 - 5 weeks)

Payment: Net 30 Days - Retainage upon completion

We are pleased to make the following offer to sell the listed Merchandise which is firm for (30) thirty days from the above date, and is automatically withdrawn thereafter without any further notice.

1. Signing and returning this document to Electric Pump's office in Des Moines, Iowa may accept this offer.
2. This offer and acceptance constitutes the entire Agreement between the parties and may be modified only by a writing signed by both parties.
3. The prices quoted for equipment are valid for (30) thirty days. If the quote includes start up services and it is scheduled by the request of the buyer for a time other than Monday through Friday 8:00 to 5:00 additional charges will be due.
4. Payment terms are NET 30 (thirty days) after the mailing of seller's invoice.
5. Delivery terms are F.O.B. Place of Shipment. Seller agrees to put the merchandise in the possession of the carrier, to make a reasonable contract of carriage for their transportation, to obtain and deliver or tender such documents as may be necessary to enable Buyer to obtain possession, and to promptly notify the Buyer of shipment. After seller has delivered the merchandise to the carrier, the risk of loss of the merchandise will be borne by the Buyer. The prices quoted herein include transportation charges based on existing truckload rates, any change in delivery rates existing at the time of delivery will be billed to your account. Dates of delivery are determined from the date of Seller's acceptance of any order or orders by Buyer and are estimates of approximate dates of delivery, not a guaranty of a particular day of delivery.
6. Sales and use tax are not included.
7. Buyer shall notify seller in writing at Seller's place of business as shown on the reverse side of this page, within twenty (20) days of receipt of merchandise, or any complaint whatsoever buyer may have concerning such merchandise. Failure to give such notice shall constitute a waiver by Buyer of all claims in respect to such goods.
8. If notice of complaints is provided within twenty (20) days of Buyer's receipt of the merchandise, Seller agrees to inspect the merchandise at Seller's place of business during Seller's normal business hours and days. Upon inspection, if the merchandise is determined to be defective in material or workmanship, Seller, at Seller's option, shall repair or replace said merchandise at no cost to Buyer, or Seller may refund the purchase price. If the examined merchandise is found not to be defective or is not for some other reason within the warranty coverage, Seller's service time expended on and off-location will be charged to Buyer.

- 9. Seller will have no further warranty obligation under this Agreement if the Equipment is subjected to abuse, misuse, negligence or accident or if buyer fails to perform any of its duties set forth in Paragraphs 8 and 9.
- 10. THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY MADE BY THE SELLER REGARDING THIS PURCHASE. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NOTHING HEREIN CONTAINED SHALL LIMIT BUYER'S RIGHTS AGAINST THE MANUFACTURER, WITH RESPECT TO MANUFACTURER'S WARRANTIES, IF ANY.
- 11. WARRANTY REPAIRS (which fall under the manufacturer's warranty, if any) ARE F.O.B. ELECTRIC PUMP, INC. SERVICE LOCATION. ELECTRIC PUMP, INC. WILL NOT ASSUME ANY EXTENDED WARRANTIES UNLESS APPROVED BY PRIOR WRITTEN CONSENT. THIS INCLUDES SERVICE CALLS TO JOB SITES ON PRODUCT COVERED DURING THE WARRANTY PERIOD. *PLEASE REFER TO THE ATTACHED PRODUCT WARRANTY STATEMENT FOR CLARIFICATION.*
- 12. IT IS UNDERSTOOD AND AGREED THAT SELLER'S LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY BUYER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE MERCHANDISE IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. NO ACTION, REGARDLESS OF FORM, ARISING OUT OF THE TRANSACTION UNDER THIS AGREEMENT MAY BE BROUGHT BY BUYER MORE THAN ONE-YEAR AFTER THE CAUSE OF ACTION HAS ACCRUED.
- 13. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Iowa. Any dispute or disputes arising between the parties hereunder, insofar as the same cannot be settled by friendly agreement, shall be litigated only in The Iowa District Court for Polk County, in Des Moines, Iowa. Seller also has the right to commence an action against the Buyer in the County of the Buyer's principal place of business.

Purchase Order Number _____

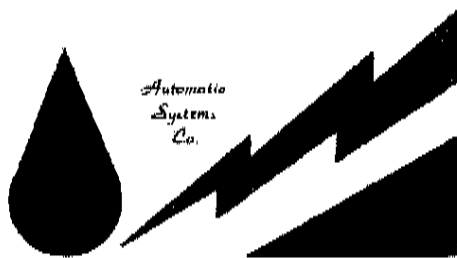
Purchase Order Amount _____

SIGNATURE _____

DATE _____

Is Project Taxable? Y or N, if No a tax exempt form must be supplied for our records
We need a hard copy of this agreement and/or a Purchase Order to start submittals

Ship to Address: _____



AUTOMATIC SYSTEMS CO.

TO: ALL BIDDING CONTRACTORS

QUOTATION/
PROPOSAL NO: ASG102403Q

DATE: March 30, 2010

SUBJECT: North Lift Station
Improvements,
Center Point, Iowa

F.O.B.: Factory Frt. Allowed to Jobsite.

APPROVAL DRAWINGS: 8-10 Weeks from
Receipt of an Acceptable Order.

BID DATE: Unknown

SHIPMENT: 8-12 Weeks from Receipt of
Approved Submittal.

QUOTATION

EXPIRES: 45 Days

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QUOTATION/PROPOSAL

This quotation constitutes an offer to furnish the items listed subject to: terms and conditions stated hereon; receipt of your purchase order by Automatic Systems Co.; Ames, Iowa; and written acceptance of your order by Automatic Systems Co. and/or the manufacturer(s) involved as follows:

**WE ARE PLEASED TO OFFER THE FOLLOWING EQUIPMENT AND SERVICES
IN ACCORDANCE TO THE FOLLOWING:**

**PLAN SHEET C.02 - SUPPLEMENTAL SPECIFICATIONS
Lift Station Specifications (Parts 1.03 & 1.06)**

A One (1) Custom Free Standing Triplex Pump ^{Communication} ~~Control~~ Panel, NEMA I, 120V, for installation in a contractor supplied enclosed building as shown on the plans and complete with the following:

NEMA I Free Standing Enclosure
Surge protection device.
24 VDC power supply.
~~Three (3) HGA selector switches.~~
~~Three (3) run time meters.~~
~~Three (3) green pump required lights.~~
~~Pump start time delays as required.~~
~~Seal fail indicator lights.~~
~~Space for mounting and wiring of special seal fail/
heat sensor relays to be provided by the pump supplier.~~

MANUFACTURERS REPRESENTATIVES

CONTROLS

MECHANICAL EQUIPMENT

MAIN OFFICE: P.O. BOX 120369 ST. PAUL, MINNESOTA 55112 PHONE 651-631-9005 (FAX) 651-631-0027
 BRANCH OFFICE: P.O. BOX 787 AMES, IOWA 50010 PHONE 515-232-4770 (FAX) 515-232-0795

AUTOMATIC SYSTEMS CO.
CONTROL SYSTEMS INTEGRATOR

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Mounting and wiring provided by ASC.
Allen-Bradley programmable logic controller with input/output modules as required, including complete system programming.
Allen-Bradley PanelView Color operator interface including complete system programming/screen configurations.
SCADA Radio and interface components to match existing system.
Radio antenna.
Radio coax cable.
Radio coax connectors.
Control and alarm relay as required.
Uninterruptible power supply (UPS).
Analog intrinsically safe barrier.
Digital intrinsically safe relay.
Terminal strip.
Nameplates.

~~Included with the proposed control panel but provide for separate mounting shall be the following:~~

- ~~One (1) Sigma submersible pressure/level transducer with 4-20 MA output and complete with 50' of cable.~~
~~Two (2) Float switches, each complete with 50' of cable.~~

- B Eight (8) Complete sets of Approval Drawings/Data.
C Five (5) Complete sets of Operation, Maintenance Manuals, with as-built wiring diagrams.
D One Lot Startup services/owner training.
E One (1) Year warranty from date of startup, not to exceed 18 months from date of shipment.
F One (1) Lot Shipping Charges to Center Point, Iowa (FOB factory freight allowed).

TOTAL PRICE FOR ITEMS A THROUGH F \$27,850.00

- The above price for Items A through F does not include any:
- Sales or use taxes.
 - License fees or permits of any kind.
 - Telemetry/phone lines, jacks or accessories of any kind.

AUTOMATIC SYSTEMS CO.
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- Pressure taps, valves or fittings of any kind.
- Interconnecting wire, cable, or conduit of any kind (except as specifically noted above).
- Flowmeters per plan sheet C.02 (Lift Station Specs), Item 1.06.
- Relocation and mounting of existing alarm dialer per plan sheet C.02 (Lift Station Specs), Item 1.07.
- Generators, generator controls, receptacles/plugs, or transfer switches of any kind.
- Main breaker.
- 3-phase power monitor.
- 3-pole lightning protection.
- Pump circuit breakers.
- Variable Frequency Drives
- FVNR motor starter for existing 3/4 HP pump.
- Separate circuit breakers for control circuit, exterior outlet, building lights and fan, standby power circuit, lift crane circuit and two spare.
- Control valves, actuators, positioners, limit switches, or solenoids of any kind.
- Submersible pump seal fail/heat sensor relays that are required to be mounted in our control panels. (Actual mounting and wiring to be provided by ASC).
- Local disconnect switches or control stations.
- Removal or disposal of existing equipment.
- Spare parts of any kind (unless specifically noted above).
- Incoming wire termination or marking of any kind.
- Setting or mounting of equipment.
- Unloading of equipment from delivery trucks or on-site storage of any kind.
- Jobsite preconstruction or progress meeting attendance.
- Excavation or backfill.
- Concrete work of any kind (i.e. duct bank, housekeeping pads, equipment supports, etc.)
- Process equipment or motors of any kind.
- Building interior or exterior light fixtures, wall switches, junction or pull boxes, or receptacles of any kind.
- Conduit or conduit fittings of any kind.
- Field instrumentation/device mounting brackets, plates, anchor bolts, stands, or hardware (unless specifically noted).

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- Wire or specialized cables between primary elements and controllers/control panels (unless specifically noted).
- Grounding of equipment or associated ground rods or conductors.
- PLC or HMI software of any kind.
- Panel mounting hardware/supports of any kind.
- Incoming power wire, cable, or conduit to panels.
- Power company metering or transformers of any kind.
- Antenna mast or towers.
- Installation supervision.
- Installation or modification labor (unless specifically noted) or any other miscellaneous equipment of services which may be required).

- Startup services included in the above price(s) are based on a single trip to the jobsite to startup all of the control equipment noted above at one time. If multiple trips are required to startup only certain items of equipment, or to provide the startup services in phases, a change order for additional services may be required.

AUTOMATIC SYSTEMS CO.
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WE WISH TO POINT OUT:

OUR TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE OR DATE OF SHIPMENT, WHICH EVER COMES FIRST UNLESS STARTUP SERVICE IS REQUIRED PRIOR TO THE EXPIRATION OF THE 30 DAYS, IN WHICH CASE PAYMENT IS DUE IN FULL PRIOR TO STARTUP, WITH NO RETAINAGE ALLOWED! ANY BALANCE REMAINING DUE 31 DAYS BEYOND THE INVOICE DATE WILL BE SUBJECT TO A 1.5 PERCENT MONTHLY SERVICE FEE UNTIL PAID.

AUTOMATIC SYSTEMS CO. SHALL NOT BE HELD RESPONSIBLE FOR, OR SHALL ACCEPT ANY BACKCHARGES FOR LIQUIDATED DAMAGES RESULTING FROM FAILURE OF THE CONTRACTOR TO COMPLETE THE PROJECT CONTRACT ON TIME, OR ANY EXTRA ENGINEERING COSTS NECESSITATED BY THE CONTINUANCE OF WORK BEYOND THE SPECIFIED COMPLETION DATE. AUTOMATIC SYSTEMS CO. ANTICIPATES DELIVERY OF APPROVAL DRAWINGS AND MATERIAL/EQUIPMENT IN ACCORDANCE WITH THE PERIODS STATED ON PAGE 1 OF THIS PROPOSAL. MATERIAL SUPPLIERS/MANUFACTURERS HAVE BEEN EXTENDING DELIVERY SCHEDULES WITHOUT PRIOR NOTICE. AUTOMATIC SYSTEMS CO. CANNOT ASSUME ANY RESPONSIBILITY FOR DELAYS DUE TO THE UNAVAILABILITY OF MATERIAL OR EQUIPMENT WHICH IS BEYOND OUR CONTROL.

UNLESS STATED OTHERWISE, THE WARRANTY PERIOD FOR MECHANICAL AND/OR ELECTRICAL EQUIPMENT COVERED BY THIS QUOTATION SHALL BE 1 YEAR FROM DATE OF STARTUP, NOT TO EXCEED 18 MONTHS FROM DATE OF SHIPMENT. EXTENDED WARRANTIES ARE AVAILABLE AND WILL BE QUOTED ON REQUEST. THE WARRANTY PERIOD INCLUDED IN THE ABOVE SELL PRICES FOR MECHANICAL AND/OR ELECTRICAL EQUIPMENT EXPRESSLY EXCLUDES THOSE ITEMS NORMALLY CONSUMED IN SERVICE. EXAMPLES: SEALS, PACKING, OIL, GREASE, LIGHT BULBS, FUSES, ETC.

Respectfully submitted,

AUTOMATIC SYSTEMS CO.

By: 
Greg Kraus

To expedite handling and confirmation, you may sign below and forward as your order for the equipment quoted above.

Items Ordered _____ Total Net Price _____

Customer Firm Name _____ Date _____

Authorized By _____ Purchase Order No. _____

Prices quoted do not include state and/or use taxes of any kind.