2

AN ORDINANCE OF THE CITY OF OSAGE BEACH, MISSOURI, AUTHORIZING THE MAYOR TO EXECUTE CONTRACT MODIFICATION NO. 5 FOR AN AMOUNT NOT TO EXCEED \$37,085.10 FOR PROJECT NO OB19-010 WITH HEGGEMANN, INC FOR THE SWISS VILLAGE WELL NO. 3 FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEED \$652,038.60.

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF OSAGE BEACH, MISSOURI, AS FOLLOWS, WIT:

<u>Section 1</u>. The Board of Aldermen hereby authorizes the Mayor to execute on behalf of the City a contract modification No. 5 with Heggemann, Inc., under substantially the same terms and conditions as set forth in the form attached hereto as ("Exhibit A").

Total expenditures or liability authorized under this contract modification is Thirty-Seven Thousand, Eighty-Five Dollars and Ten Cents. (\$37,085.10) for a new total contract price not to exceed Six Hundred Fifty-Two Thousand and Thirty-Eight Dollars and Sixty Cents (\$652,038.60).

<u>Section 2</u>. The City Administrator is hereby authorized to take such further actions as are necessary to carry out the intent of this Ordinance and Contract.

Section 3. This Ordinance shall be in full force and effect from date of passage and approval by the Mayor.

READ FIRST TIME: March 17, 2020 READ SECOND TIME: March 17, 2020

I hereby certify that the above Ordinance No. 20.19 was duly passed on March 17, 2020, by the Board of Aldermen of the City of Osage Beach. The votes thereon were as follows:

Ayes: 4 Nays: 0 Abstain: 0 Absent:

This Ordinance is hereby transmitted to the Mayor for his signature.

Approved as to form:

Edward B. Rucker, City Attorney

I hereby approve Ordinance No. 20.19.

ATTEST:

ohn Olivarri, Mayor

Tara Berreth, City Clerk

Tara Berreth, City Clerk

CONTRACT CHANGE ORDER

February 19, 2020

City Project No. OB19-010

	ractors age Order No. 5	reord	iary 19, 202	.0				ct No. 10136782
	City of Osage Beach			of .	Car	nden	County,	State of Missouri
	(Owner)							
То	Heggemann, Inc. (Contractor)			_ for	Swiss	Village Well N (Project Name)	0. 3	
					_			
l.	Item 7. Install the well pump at a lower depth depth is required based on actual field conditional Alternate No. 2, for additional pump column, such that total additional cost for this item is \$6,240.	ons of well submersibl	drawdown.	The C	Contractor prov	vided a unit price	e in the bid doc	uments, as Bid
	Item 8. Install a 125 HP well pump, motor and 100 HP well pump, motor and cable indicated for a total additional cost of \$16,183.20.							
	Item 9. Install a 125 HP Variable Frequency D Start indicated in the bid documents. The Cont \$14,661.90.							
П.	Cost of work affected by Change Order.							
(A)	(B)	(C) Units	(D) Units		(E)	(F)	(G)	(H)
Item No.	Unit Description	Provided For	To Be Built		Units Add Or Deduct	Contract Or Unit Price	Amount Added	Arnount Deducted
7	Install well pump at a depth of 630 feet, which is 130 feet beyond the 500' depth indicated in the bid documents. Install a 125 HP well pump, motor and cable	500	630	FT	130	\$48.00	\$6,240.00	
	capable of 500gpm at 765 feet of total dynamic head in place of the 100 HP well pump, motor and cable indicated in the bid documents. Install a 125 HP Variable Frequency Drive in	0	l	LS	1	\$16,183.20	\$16,183.20	
9	place of the 100 HP Reduced Voltage Soft Start indicated on the bid documents.	0	1	LS	1	\$14,661.90	\$14,661.90	
			TOTALS				\$37,085.10	
1. 2.	Original Contract Amount Add or Deduct This Order (G-H of Totals)		\$37,085.10			-	\$553,292.00	
3.	Add or Deduct Previous (Line 4 on Previous Order)		\$61,661.50					
4.	Total Add or Deduct To Date					-	\$98,746.60	
5.	Revised Contract Amount (1+4)						\$652,038.60	
III.	Cat Di	2/2	14/2020 Date		Delston	Meageme	241	02/19/2020
Engine	om devari		Date 317130		Contractor (Accep	nted) ()()		Date

Owner (Ordered)

Change Order is subject to all provisions of the contract documents and is not in effect unless signed by all parties indicated.



February 24, 2020

Kim Ingham City of Osage Beach 1000 City Parkway Osage Beach, MO 65065

Re: Swiss Village Well #3 - Proposed Change Order No. 5

Dear Kim Ingham,

The results of the additional well production test show the well has significantly more water level drawdown than the City's other wells in the area. As a result, we recommend that the well pump be set at a lower depth of 630 feet, which is 130 feet beyond the 500 feet called for on the bid plans. The contractor provided a unit price in the bid documents, as bid alternate no. 2 of \$48 per vertical foot, for additional installation of additional pump column submersible cable to set the pump beyond the 500 feet call for on the plans. The total additional cost for the additional 130 feet of pump column and cable is \$6,240.

Additionally, we recommend the well pump be changed from the 100 HP well pump with reduced voltage soft starter, to a 125 HP well pump with a variable frequency drive. The larger 125 HP is necessary for the well to produce the desired capacity while meeting the additional pump head due to the additional water level drawdown of this well per the well production tests. The variable frequency drive is necessary for the pump to operate within the pump manufacturer's recommended operating range during pump startup. The contractor provided an additive cost proposal for switching to a 125 HP well pump capable of 500 gallons per minute at 765 feet of total dynamic head in the amount of \$16,183.20 along with additive cost of \$14,661.90 for the variable frequency drive with synchronized bypass necessary for the larger 125HP well pump in lieu of the 100 HP reduced voltage soft start.

The enclosed change order includes the items above, which result in a total cost of \$37,085.10. Please feel free to contact me with any questions.

Sincerely, HDR Engineering, Inc.

Scott Fleming, PE

Enclosures

hdrinc.com



FAX: 636-456-1172 PO Box 768 Warrenton, MO 63383

ATTN: Kimberly Ingham

PROPOSAL SUBMITTED TO

PHONE

DATE

City of Osage Beach

573-302-2020 JOB NAME

2/10/2020

STREET

5757 Chapel Drive

Additional Electrical Installation

JOB LOCATION

CITY, STATE AND ZIP CODE Osage Beach, MO 65065

Swiss Village Well #3

We propose to furnish material and labor - complete in accordance with specifications below, for the sum of:

See Below

Payment to be made as follows:

Draw as job progresses. Net in 30 days. Service charges will accrue.

We hereby submit specifications and estimates for:

For 130' of additional column piping:

130' * \$48/ft=

\$ 6,240.00

For the upgrade of the deep well pump:

\$16,183.20

Includes:

500 GPM pump with 125 HP motor and 4/0000 power cable

Grundfos-SP475S Pump

630' upsized 4/0000 power cable 1 - additional 6" DI VFD Check Valve

Midwest Hydro - pump upgrades:

\$14,712.00

10% overhead and profit:

\$ 1,471.20

Total:

\$16,183.20

Price to replace soft starter with VFD:

\$14,661.90

Includes: See attached scope from Aesthetix Electric

Aesthetix Electric - electrical:

\$13,329.00

10% overhead and profit:

\$ 1,332.90

Total:

\$14,661.90

Estimators: Mike Jordan

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any atteration or deviation from specifications above involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance

All agreements contingent upon strikes, accidents or delays beyond our control

NOTE: This proposal may be withdrawn by us if not accepted within: 30 days.

Authorized Signature:

ACCEPTANCE OF PROPOSAL - The prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: 17 0000 17 2030

Signature Signature:



February 9, 2020

Mr. Mike Jordan Heggemann, Inc. 508 Booneslick Rd. Warrenton, MO 63383

Re: Osage Beach Swiss Village Well No.3, Pump Change Order Proposal

Dear Mr. Jordan:

We are pleased to furnish you with a pump change order proposal for the revised pump for Swiss Village Well No.3 in Osage Beach, MO. The pump has been redesigned to meet the larger total dynamic head. The new design conditions were determined by Scott Fleming as follows:

500 GPM 775' - 790' of TDH Set 630' deep

The new revised pump will be a 500 GPM pump with 125 Hp motor and 4/0000 power cable. We propose the following additional pricing for the revised pump for new well #3.

Grundfos SP475S, 630' of upsized 4/0000 power cable, 630' of 6" column pipe and 1 additional 6" DI VFD check valve.

Add: 130' of 6" column pipe & power cable @ \$48/ft Add: Upsize to 125 Hp pump

\$6,240.00 \$14,712.00

Total Change Order Price:

\$20,952.00

The VFD drive for a 125 Hp motor estimate: \$22,790.00

I have attached a Franklin pump curve for review and approval.

Please review and forward to the city and engineer for approval.

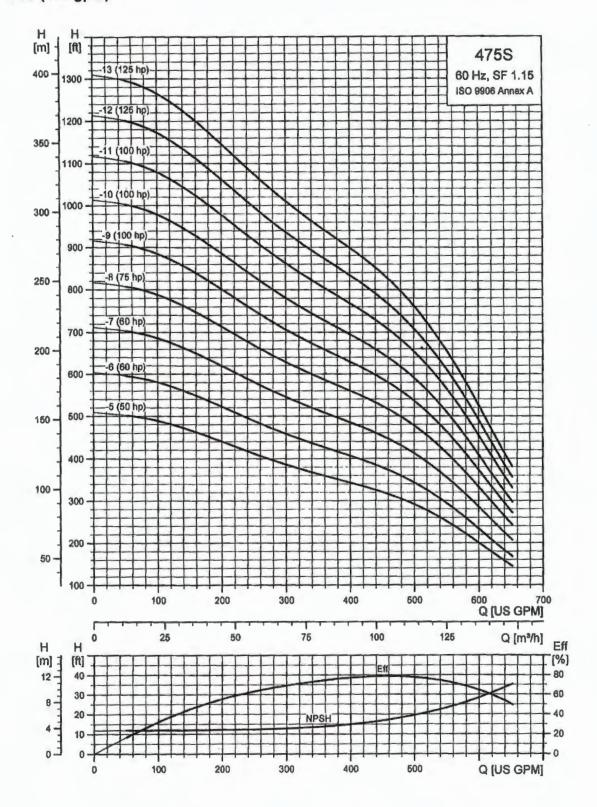
h Souther

Sincerely,

Phil Luther

Approved:

475S (475 gpm)





February 12, 2020

Heggemann Inc. PO Box 768 Warrenton, Mo 63383

Quote #2620112

Osage Beach Swiss Village Well #3 125HP Upgrade:

- A. EGS 6-Pulse Enclosed Drive w/ 5% Dual DC Link Choke, 125 HP (93 KW) Low Overload (IL) Rated, 480VAC Three Phase Input, NEMA 12 Enclosure Catalog # EGS1564A211GA00000
 - Manual HOA Bypass
 - 22MM HOA Switch
 - DV/DT Filter
 - DX Enclosure Floor Mounted
 - Varnished Boards (Standard)
 - Installation of above
 - Start up and testing

Additions above original quote, \$13,329.00

Items NOT Included:

- Premium Time
- Applicable Taxes
- Prices are firm 60 days from the date of proposal
- · Net 30 days with 1.5% added monthly

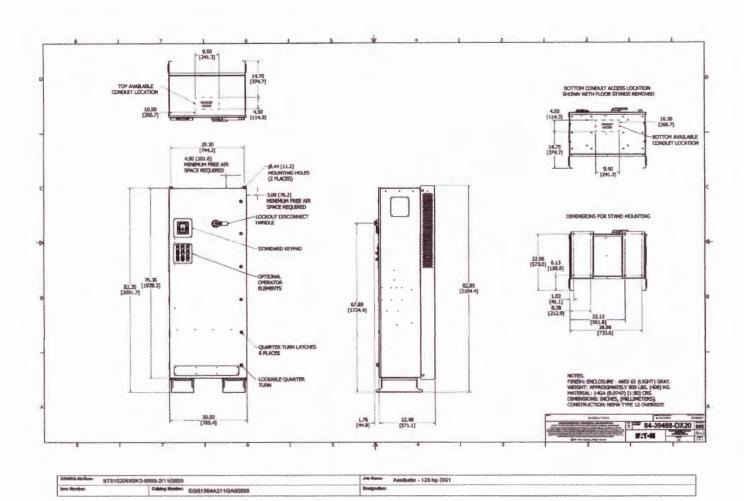
Accepted By	
Company	
Date	Allina

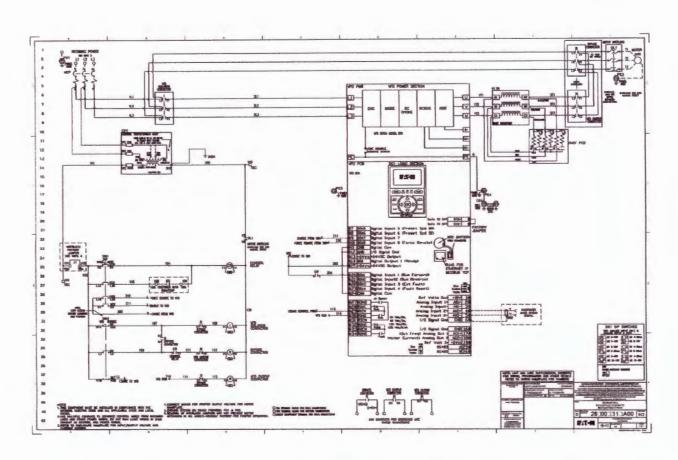
Steve Durbin Aesthetix Electric

THANK YOU FOR YOUR BUSINESS AND REFERRALS!

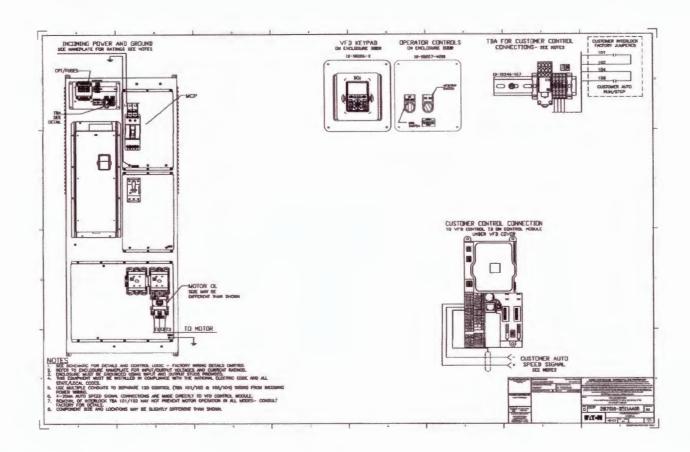
573.348.1429
sesthetixelectric.com | steve@aesthetixelectric.com
PO Box 972 | Osage Beach MO, 65065

General Information: Drives - Enclosed **Drive Schedule** Equipment ID Catalog Number **Output HP Output Amps Output Voltage** Qty item 480VAC Three EGS1564A211GA0 125 156 Phase 0000 Item Information Enclosed 6-Pulse DG1 Drive Design Series: 125 HP (93 KW) **Output Power:** Rated Output Current (Amps): 156 480VAC Three Phase Input Voltage: 45 to 66 Hz Input Frequency Output Voltage: **480VAC Three Phase** 0 to 320 Hz **Output Frequency Branch Protection:** 100KAIC **Short Circuit Current Rating:** NEMA 12 **Enclosure NEMA Rating:** Enclosure Size: DX Drive Frame Size: FR5 BACnet MS/TP, Ethernet/IP, Modbus, & Modbus TCP **Onboard Comms:** Optional Comms: **Enclosure Information NEMA Rating:** NEMA 12 Height (in): Width (in): Depth (in): Weight (lbs): 1000 **Circuit Protection** HMCP250L5C PREPARED BY DATE The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to IRVIN LEE 2/11/2020 Eaton APPROVED BY DATE JOB NAME Aesthetix - 125 hp DG1 be used for the purpose in which it is supplied. DESIGNATION DRAWING TYPE VERSION TYPE Customer Appr. 10.0.0.0 Drives - Enclosed REVISION DWG SIZE G.O. ITEM SHEET **NEG-ALT Number** 0 A ST510206X0K3-0000 1 of 1





90MS9-Ma-Quan: STS1020GXQK3-0	900-2/11/2020	Job Rame	Aesthelix - 125 hp DG1
New Mandott	EGS1964A211GA00000	limigration	



BORRES Als Granz	\$T\$16206X6K3-6000-2/11/2020	Job Names	Assiyeliz - 125 top DG1
Green Morrobert:	Catalog Mandant EGGS1564A211GA00000	Designation	