BID FORM Bid # TF-2017-11

DUE DATE: February 21, 2017 @ 2:30 P.M.

Item	Price
one (1) vertical turbine pump and motor at the Seguin Water Plant, as specified herein	\$120,191.29
Make/Model of Equipment Bid: Hydroflo 1411 4 stage Vertical Turbine Pump, w/ 6 3 phase, TEFC Motor, Allen Bradley S Aseries VFD Panel Days to deliver following receipt of Purchase Order	144C-21071-W-14MH E 300 HP VHS, 1800 RPM, 460 V Switchgear, ABB Stand Alone BU-98 calendar days
The Undersigned affirms that it is duly authorized to suprepared in collusion with any other bidder, and that t	
communicated to any other bidder prior to the official	
304 Commercial Drive	uthorized Signature Luck Moore rinted Name
City, State, Zip Code	Sales Consultant
512-312-0088 Phone No.	
Email Address: Chucken@ acwers	COM

BIDDER EXCEPTION FORM

This form must be completed and signed by an authorized representative of the company. Failure to do so may cause total bid to be rejected. If no exceptions are to proposed, indicate by station "No Exceptions to Specifications: and sign in the appropriate space.

STATEMENT (OF BIDDER:			
WE PROPOSE	THE FOLLOWII	NG EXCEPTION:	S TO THE SPECIFICATIONS:	
SECTION	PAGE #	PARAGRAPH	EXCEPTION	
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BANKET SANT ENGLANDE AND	-			¥
COMP CASE OF COLUMN ASSESSMENT				
NOTE: If ad		are needed, a	attach to the back of this page and note "Se	e Page 2-
LXCEPTIONS C	ni tilis page.			
Austin	Armature	Works	Wal have	
Company Nai	me		Authorized Signature	



Austin Armature Works, LP 304 Commercial drive, Buda, TX 78610 Phone (512)312 0088 Fax (512)312 0988

Quote Number Customer ID Quote Date 5/2/2016 FRQ1450 001227 Attn CC **Emory Gallagher**

Customer Information

CITY OF SEGUIN PO BOX 591 SEGUIN, TX 78156

Ship To Information

CITY OF SEGUIN 816 FRED BYRD DR **SEGUIN, TX 78155**

Quote By: Phillip Sansom

PO #:

RFQ#:

Charles Moore Jr Salesperson:

Phone:

(830) 660-5128 x

Fax:

(830) 401-2499 x

Terms: Net 30

Nameplate Information

Quote Information

Reason Sent For Repair: Provide customer with budgetary pricing to upgrade existing 50 HP jockey pump to a full size 300 HP pump, motor, drive panel and Allen Bradley gear section with 600 amp disconnect turn key.

- Required Work: -Add Allen Bradley switch gear section with 600 amp switch included.
 - Add concrete house keeping pad from edge of existing MCC to the wall
 - Run conduit from new switch gear to new VFD cabinet for line and load, and
 - Use existing raceway under MCC to route the motor feeders to existing 3" conduits under Jockey pump control bucket.
 - Extend 3" seal tight to new motor from existing parallel 3" rigid conduits.
 - Make up motor and test operation.
 - Use existing jockey pump controls to operate new HS pump.
 - Add 300 HP stand alone ABB Q series VFD panel in

MCC

hydroflo pump and GE motor.

-Pull existing pump and motor and install new

DESIGN: 2801 GPM @ 290' TDH, 1770 RPM, *

83.1% Efficient, 246 BHP, 202.07 Inch TPL (+/- 1.5")

- 1 14MH4C-21071-w_B5 14MH 4 Stage W/L VERTICAL TURBINE PUMP ASSEMBLY
- 1.6875" x 416SS Head Shaft Assembly w/ 10TPI Bronze Adjusting Nut and Key
- L-Style Fabricated Steel Head with 12" 125# Discharge Flange for 20" BD X 24" Barrel
- O.D. with 21" Dia x " Thick Integral Round Base
- 1.6875" Cast Iron Mechanical Seal Housing with B10 C932 Brass Bearing and Hydro99 Cartridge Seal
- Seal Material: Tungsten vs. Tungsten / 316SS / Viton
- 1 Piece Column Assembly: ~ 118.00" of 12" x .250" Wall Steel Water Lubricated

Column

- 6-8 mils TNEMEC 141 Epoxy: Coating ID and OD-Tnemec 141 of Column

Assembly

- 1 Piece Lineshaft Assembly: 1.6875" -10TPl x 120" x 416SS w/ 416SS Couplings
- 14MH 4 Stage Product Lubricated Bowl Assembly w/ 18-8 SS Fasteners including:
- 12" Butt Thread, Ductile Iron Discharge Case with B10 C932 Brass Bearing
- Cast Iron Bowls
- B10 C932 Brass Bowl Bearings
- 201SS Impellers with 3Cr13 Collets
- 416SS Bowl Shaft: 8.00" Water Lube Projection x 1.6875" DIA 10TPI
- 10" NPT, Cast Iron Suction Case with B10 C932 Brass Bearing
- 6-8 mils TNEMEC 141 Epoxy: Coating Outside Only-Tnemec 141 of Pump End
- 304SS Bolt-On Basket Strainer
- Crating and Painting
- Min. Submergence from Bottom of Suction for Vortex Suppression = 40" (In.).
- *This does not include NPSHr requirements. NPSHr at Duty Point = 25.9'

GE 300HP Vertical Hollow Shaft Motor, Type KS, 1800RPM, 460Volts, Class H Insulation, 1.15 Service Factor, 40 Deg C Ambient, Cont Duty, 120V 1Ph Space Heater (Leads out Main Box), High Thrust Design, Oil Lubricated Upper Brg, Grease Lubricated Lower Guide Brg, Non Reverse Ratchet W/1.688" BX Coupling Bore, Special Balance, Frame L449TP20, TEFC-Severe Duty, Cast Iron Construction, Premium Efficient, Two Year Factory

SIGNATURE:	DATE:
DO# (IE NOT AL DEADY ISSUED):	Ship Via:



Quote

		Customer ID	Quote Date	Qu	ote Nu	ımber
Pumps Moto	ors Controls	001227	5/2/2016		FRQ14	50
Austin Armatu 304 Commercial dri	ure Works, LP	Attn	cc			
304 Commercial dri Phone (512)312 008	ve, Buda, TX 78610 8 Fax (512)312 0988	Emory Gallagher				
Customer Informa	ation Shi	p To Information	C	uote By:	Phillip Sa	nsom
CITY OF SEGUIN		OF SEGUIN		PO #:		
PO BOX 591		RED BYRD DR		RFQ#:		
SEGUIN, TX 78156	556	UIN, TX 78155	Sale	sperson:	Charles IV	loore Jr
				Phone:	(830) 660	-5128 x
				Fax:	(830) 401	-2499 x
				Terms:	Net 30	
	Warranty ***Quoted is	a turn key install including all			nent***	Evt Drice
			Unit	Price		Ext Price
			Total for :		1	67,174.09
abor			Unit	Price		Ext Price
			Total for Labor :			12,250.00
Material			Unit	Price		Ext Price
			Total for Material :			40,767.20
			Subtotal :	Name of the last o	12	20,191.29
			Tax:			0.00
		Total for	Quote FRQ1450 :		12	20,191.29

Quote is valid for 30 days

SIGNATURE:	DATE:	
PO# (IF NOT ALREADY ISSUED):	Ship Via:	Page 2 of 2



QUOTATION

Date: January 24, 2017

Quote #: Q-20054-w-B6

Project: Sequin, TX

Job #:

ZERO LEAD PUMPS®

Page #: 1 of 9

Attention:

E-Mail: Phone:

Fax:

Part#

Austin Armature Works

Company: Address:

City, State:

Qty

1

From:

Phone:

Fax:

Address: City, State:

Description

Unit Price

Total

DESIGN: 2801 GPM @ 290' TDH, 1770 RPM, 81.1% Efficient, 253 BHP, 202.07 Inch TPL (+/- 1.5")

14MH4C-21071-w B6 14MH - 4 Stage W/L VERTICAL TURBINE PUMP ASSEMBLY

*** Fully Assembled Vertical Turbine ***

DISCHARGE HEAD ASSEMBLY SECTION

- 1.6875" x 56" x 416SS Head Shaft Assembly w/ 10TPI Bronze Adjusting Nut and Key
- L-Style Fabricated Steel Head with 12" 125# Discharge Flange for 20" BD X 24" Barrel O.D. with 21" Dia x " Thick Integral Round Base
- 1.6875" Cast Iron Mechanical Seal Housing with Hydroflo FEP Bearing and Hydro99 Cartridge Seal
- * Seal Material: Tungsten vs. Silicon / 316SS / Viton

COLUMN ASSEMBLY SECTION

- 1 Piece Column Assembly: ~ 118.00" of 12" x .250" Wall Steel Water Lubricated Column
- 6-8 mils TNEMEC 141 Epoxy: Coating ID and OD-Tnemec 141 of Column Assembly
- 1 Piece Lineshaft Assembly: 1.6875" -10TPI x 120" x 416SS w/ 416SS Couplings

BOWL ASSEMBLY SECTION

- 14MH 4 Stage Product Lubricated Bowl Assembly w/ 18-8 SS Fasteners including:
- 12" Butt Thread, Ductile Iron Discharge Case with Hydroflo FEP Bearing
- Cast Iron Bowls
- Hydroflo FEP Bowl Bearings
- 201SS Impellers with 3Cr13 Collets
- -416SS Bowl Shaft: 8.00" Water Lube Projection x 1.6875" DIA 10TPI
- 10" NPT, Cast Iron Suction Case with Hydroflo FEP Bearing
- 6-8 mils TNEMEC 141 Epoxy: Coating Outside Only-Tnemec 141 of Pump End
- 304SS Bolt-On Basket Strainer
- · Crating and Painting
- Min. Submergence from Bottom of Suction for Vortex Suppression = 40° (In.).
- **This does not include NPSHr requirements. NPSHr at Duty Point = 25.9' (Ft.).
- · Estimated Total Assembly Weight As Above: 2436 Lbs.

Standard time to have ready to ship is ~ 10 to 12 weeks A.R.O. based on current inventory and factory loads.

* Please advise of your delivery needs and we will do our best to meet them.

300hp GE 460/3/60 VHS TEFC 1800 RPM Motor w/ NRR

I GE



QUOTATION

Date: January 24, 2017

ZERO LEAD PUMPS®

Quote #: Q-20054-w-B6

Project: Sequin, TX

Job #:

Page #: 2 of 9

Terms: Net 30

Freight: F.O.B. Shipping Point: Prepaid and Add

Ship Via: FedEx Freight

Proposal Total:

Company: Austin Armature Works

Name:

Date: 1/24/2017



Pump:

Size: 14MH (4 stage)

Type: Vertical Synch Speed: 1800 rpm

Curve: 14MH

Specific Speeds:

Dimensions:

Vertical Turbine:

Pump Limits: Temperature: 140 °F

Pressure: 300 psi g Sphere Size: 1.56 in Speed: 1770 rpm Dia: 11.13 in

Impeller: 14MH SS ENCL

Ns: 2978

Nss: -

Suction: 10 in Discharge: 12 in Bowl Size: 14 in

Max Lateral: 1 in Thrust K Factor: 13 lbf/ft

Power: 600 hp Eye Area: 48.4 in² Search Criteria:

Flow: 2800 US gpm

Head: 290 ft

Fluid:

Water Density: 62.32 lb/ft3

Viscosity: 0.9946 cP

Temperature: 68 °F

Vapor Pressure: 0.3391 psi a Atm Pressure: 14.7 psi a

NPSHa: -

Motor:

Standard: NEMA Enclosure: WP1

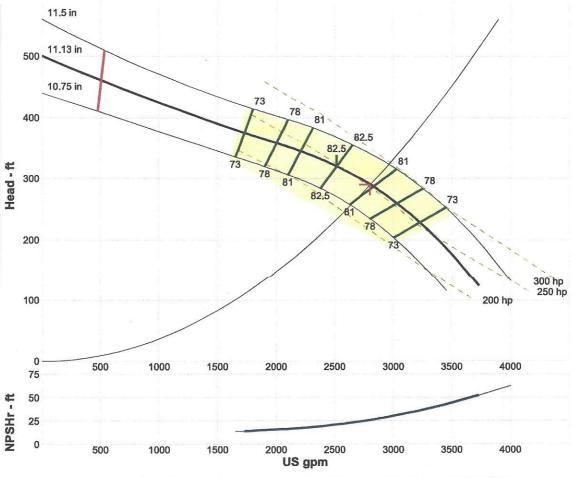
Size: 300 hp Speed: 1800 rpm Frame: 447T

Sizing Criteria: Max Power on Design Curve

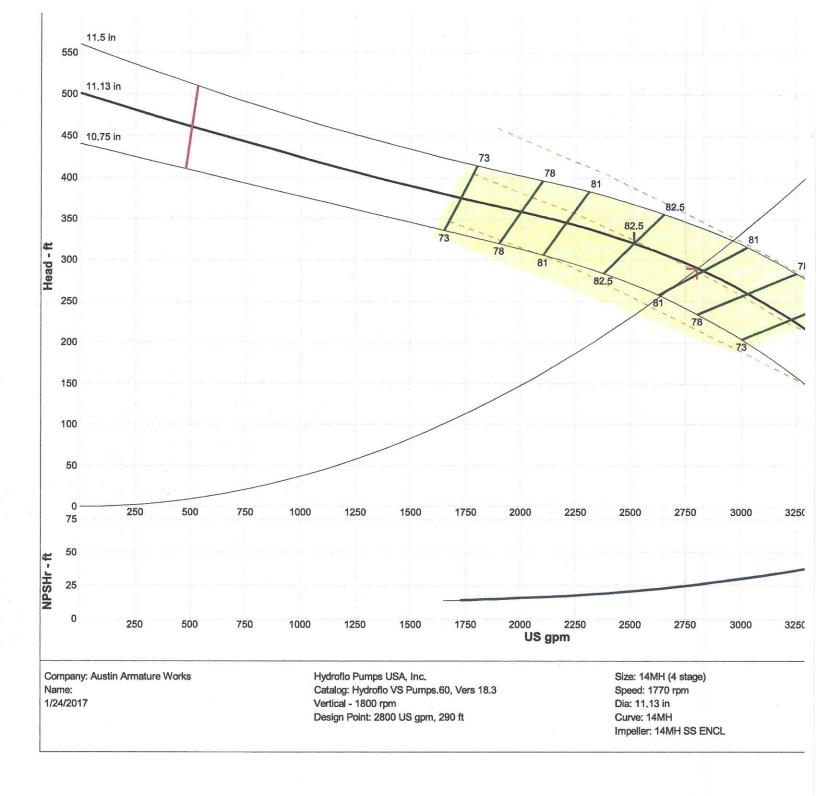
- Duty Point ---Flow: 2801 US gpm 290 ft Head: Eff: 81.1% 253 hp Power: 25.9 ft NPSHr: - Design Curve ----Shutoff Head: 501 ft Shutoff dP: 217 psi Min Flow: 503 US gpm BEP: 82.5% @ 2514 US gpm NOL Power: 255 hp @ 3225 US gpm -- Max Curve --

Max Power:

301 hp @ 3445 US gpm



Performance Ev	valuation:				
Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3360	1770	201	67.7	245	40.3
2800	1770	290	81.1	252	25.9
2240	1770	343	81.2	239	17.6
1680	1770	379	72.2	223	14.1
1120	1770	420	62	206	14.1



Quote Date: 1/24/2017

THIS DRAWING MUST BE SIGNED AND RETURNED WITH THE ORDER

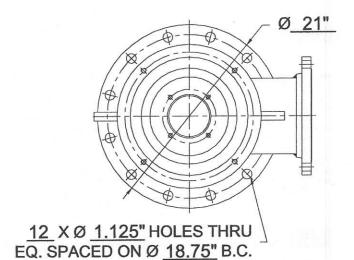
12 " HF L-TYPE FAB. HEAD

SPECIAL NOTES:

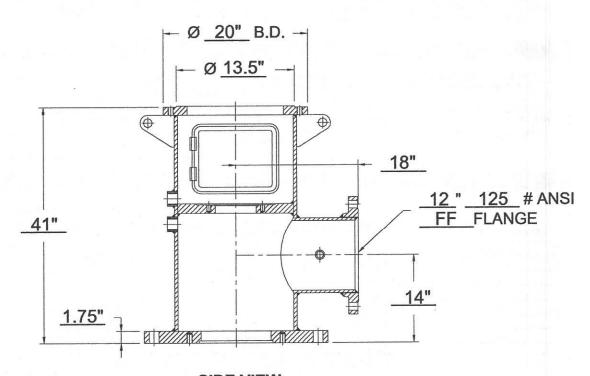
APPROVED BY:

DATE:

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TOP VIEW



SIDE VIEW

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Work Sheet Date: 09/02/2015

Hydroflo Pumps Fluid Solutions

7118 LOBLOLLY PINE BLVD. FAIRVIEW, TN 37062 PHONE: 615-799-9662 FAX: 615-799-5654

SHT

1 of 1

Rev

Austin Armature Works

14MH - 4 Stage Water Lube Pump

I -Style Fabricated Head Workshee

Form NO.

HFLFDH01R0

		14Mm - 4 Stage Water	Lube Fullip
N	СН	L-Style Fabricated Hea	d Worksheet
PUMPS INC.		CONFIGURATION No.: C-21071-w	HF L-Type Fabricated Head
		CUSTOMER P.O.:	Measurements Worksheet

DR BY:

CK BY: -

DATE:

DATE: -/-/-

BID TABULATION: BID OPENING DATE: BID NUMBER:

TF-2017-11

	Austin Armature Works	Advanced Water Well Technologies	J & K Utility Services LLC
	Buda, TX	Converse, TX	Creedmoor, TX
1 vertical turbine pump and motor installed at the Seguin Water Plant, as specified	\$120,191.29	\$138,985.00	\$149,393.00
Delivery after receipt of order:	12 - 14 weeks	10-15 weeks	20 weeks