



July 14, 2022

Bobby Clayton  
City of Pompano Beach  
1201 NE 3<sup>rd</sup> Ave  
Pompano Beach, FL 33069

RE: Lift Station #61 Rehabilitation  
Pump Equipment Offer  
Pompano Beach, FL

Dear Mr. Clayton,

We are pleased to offer the following equipment for your consideration and purchase for the subject project. Pioneer and Ebara Pump documents are also attached which clarify our offer:

**SECTION 1: TRIPLEX SUBMERSIBLE PUMPS AND ACCESSORIES**

**(3) Three Ebara Model 150DSC4BC, 2500gpm @ 105'TDH, 120HP; 3-Phase/460V; FM Version (Explosion-Proof), with 50' cable, includes non-witnessed factory performance testing;** having materials of construction and performance in general conformance with the requirements of this section of the project specifications and the clarifications outlined below and the detailed documents attached, shall be provided separately, F.O.B. origin, with all freight allowed, to the customer's first destination, for installation and hook-up by the customer or his agent. Includes the following:

**(3) Three 6"x8" Base Elbows, and Pump Slide Flange – Flygt Compatible, with Towniprene® Urethane Lining**

**(3) Three Base Elbow Base Plate**

**(4) Four Floor Anti-Vortex Plates (Under pump suction, including bypass suction pipe)**

**(3) Three SS Upper Guide Rail Brackets**

**(6) Six 3" Diameter, 316SS Schedule 40 Guide Rail. (Customer to cut to final length)**

**(3) Three Pump Lifting Chain, Stainless Steel**

**(3) Three Pump Cable Hangers, Stainless Steel.**

**(1) One USF Triple Door, 66" x 108" (Concrete Opening) Alum. Wetwell Hatch;** Angle Frame, H-20 Load Rating, Triple Door. Options Included: Springs Open Horizontal, Slamlock Standard, Recessed Padlock Standard, Bituminous Paint, Safety Chains, Odor Reduction Gasket, Hatch Safety Net Standard, Non-Removable Beam, Doors Will Open Independently. Mill Finish.

**(1) One USF Double Door, 72" x 96" (Clear Opening) Alum. Valve Vault Hatch;** Angle Frame, H-20 Load Rating, Double Door. Options Included: Springs Open Vertical, Slamlock Standard, Recessed Padlock Standard, Bituminous Paint, Safety Chains, Odor Reduction Gasket, Mill Finish.

**(1) One USF Double Door, 48" x 48" (Clear Opening) Alum. Flow Meter Vault Hatch;** Angle Frame, H-20 Load Rating, Double Door. Options Included: Springs Open Vertical, Slamlock Standard, Recessed Padlock Standard, Bituminous Paint, Safety Chains, Odor Reduction Gasket, Mill Finish.

3200 Flightline Drive, Ste. 302 • Lakeland, FL 33811 • 863-619-3789 (Voice) • 863-619-8098 (Fax)

[WWW.TOMEVANS.COM](http://WWW.TOMEVANS.COM)

**SECTION 2: SPARE SUBMERSIBLE PUMP**

**(1) One** *SPARE Ebara Model 150DSC4BC, 2500gpm @ 105'TDH, 120HP; 3-Phase/460V; FM Version (Explosion-Proof), with 50' cable, includes non-witnessed factory performance testing and Slide Bracket;* having materials of construction and performance in general conformance with the requirements of this section of the project specifications and the clarifications outlined below and the detailed documents attached, shall be provided separately, F.O.B. origin, with all freight allowed, to the customer's first destination.

**SECTION 3: CONTROLS, INSTRUMENTATION, AND VFD's**

**(1) One** *C.C. Control Corp., Triplex Control Panel;* Rated **125HP/460V/3PH/156FLA** with following features:

- NEMA Type 12 - Carbon Steel Enclosure
- Size: 90"H X 36"W X 18"D
- 3pt. Padlocking Handle
- Internal Light Bracket
- Subpanel: SP-90P36F1
- Finish: ANSI 61 Gray
- Data Flow Systems Tac Pack TCU Assembly
- RS485 Surge Protector
- Data Flow Systems Existing Antenna Subsystem and Services
- Allen-Bradley 2711P-T15C21D8S Operator Interface, Touch Screen, 15", Color, 24VDC
- UL 587A Labeled

**(3) Three** *EATON, 125HP Variable Frequency Drives*

- Eaton DG1 Series 120hp Variable Frequency Drive, 460V
- Bypass: Manual with Softstart
- Eaton VFD Start-Up and Training
- Rating: NEMA 1
- Size: 82.35"H x 31.1"W x 24.3"D
- De-ragging Capabilities built into EATON DG1 Software

**(1) One** *Keller America, Submersible Level Transducer,* (Primary Level Control)

- Model 1023.01607.051311.13
- Power: 24VDC, 4-20maDC, 0-20 PSI with 50ft cable length
- Termination enclosure
- Drying tube
- Bellows assembly
- Cable Hanger

**(1) One** *10" Siemens, Magnetic Flow Meter,* Model 7ME6310-4VJ11-1AA2-Z+N02

- Carbon Steel Flange
- Soft Rubber Lining
- 33 Ft of cable
- Siemens 7ME6920-2PA30-1AA0 Mag 6000 Flow Transmitter
- Schaefer SPJH4SS6-1084 NEMA 4X 316L SS Enclosure
- EDCO Surge Arrestor
- 2" x 60" Aluminum pipe stanchion with 10" x 10" x 1/2" Aluminum base
- Aluminum sunshield

**(5) Five Anchor Scientific GS150NONC Level Floats** (Secondary Level Control)

**(1) One WIKA, Intrinsically Safe Wastewater Pressure Transducer, Model 52824199 IS-3**

- Power: 24VDC, 4-20maDC, 0-100 PSI
- Conduit Box
- Surge Arrestor

**(1) One WIKA, Potable Water Pressure Transducer, Model 52374301 S-20**

- Power: 24VDC, 4-20maDC, 0-100 PSI
- Conduit Box
- Surge Arrestor

**(1) One Manual Transfer Switch**

- Rating: 480 VAC, 600A, 3P
- 316SS NEMA type 3R Enclosure
- Generator Receptacle

**(4) Four Pressure Gauges, 4" Dial, Liquid Filled, High Visibility Background, 100psi scale, Dual Scale (PSI/FT), Stainless Steel Diaphragm**

**SECTION 4: STANDBY BYPASS PUMP**

**(1) One Pioneer Prime, Permanently Mounted Diesel Driven Back-Up Pump, Model PP88S12**

- 2500gpm @ 105'TDH
- Materials of construction: Ductile Iron with CA6Nm Impeller
- Pioneer Green Standard Paint
- Enclosure: Open Skid
- Engine: John Deere 113HP
- 135 Gal Fuel Day Tank
- Control Panel: Prog. LOFA CP900-AF with fuel gauge
- Entire package completely assembled, primed, and painted prior to shipment

Above having materials of construction and performance in general conformance with the requirements of this section of the project specifications and the clarifications outlined below and the detailed documents attached, shall be provided separately, F.O.B. origin, with all freight allowed, to the customer's first destination, for installation and hook-up by the customer or his agent.

**Your Cost, Less Tax, Delivered, is:**

<b>SECTION 1: TRIPLEX SUBMERSIBLE PUMPS AND ACCESSORIES .....</b>	<b>\$300,498.00</b>
<b>SECTION 2: SPARE SUBMERSIBLE PUMP .....</b>	<b>\$58,479.00</b>
<b>SECTION 3: CONTROLS, INSTRUMENTATION, AND VFD's .....</b>	<b>\$444,128.00</b>
<b>SECTION 4: STANDBY BYPASS PUMP .....</b>	<b>\$115,369.00</b>
<b>GRAND TOTAL:.....</b>	<b>\$918,474.00</b>

**The above pricing includes the following services:**

- 4-days startup of the pumping equipment

**Notes and Clarifications:**

1. **Please note that this breakdown pricing is offered with the consideration that unit responsibility is being provided for coordination of all items offered within the quotation.** Freight and startup are included. No taxes are included.
2. *Bypass Pump is an open unit and does not include sound attenuation enclosure as shown on sheet D-9.*
3. *Sheet LS-1 shows that 120HP pumps are to be provided and are needed for the listed duty point; however, electrical sheets show 75HP equipment. **Please note that this offer is for 120HP pumps and controls.***
4. *Programming of the City's existing Scada and screen services are not included.*

**PLEASE NOTE:**

1. We do not include sales tax, pressure gauges, anchor bolts, wire, cable, conduit, installation, hook-up, field testing, control panels or any other accessories or other ancillary items which are not specifically called out in this scope of supply.
2. Under no circumstances will Tom Evans Environmental, Inc. or its suppliers be liable for any incidental, consequential, liquidated, special or late delivery damages whatsoever.
3. Payment terms are 100% net 30 days from delivery with any unpaid balance 30 days past due being subject to interest at 1-1/2% per month being added to the unpaid balance, with approved credit. Our price is based upon no retainage unless outlined otherwise. Our pricing is valid for your purchase commitment within 30 days from the date of Offer.
4. Pricing is based upon Tom Evans Environmental accepting the City of Pompano Beach's standard purchase terms and conditions.
5. Please understand that the following milestones are **estimates only**, based upon market conditions existing at the time of this offering and are subject to revision.
  - A. **Pumps:**
    - a. Submittal Data Available: 3 to 4 Weeks After Receipt of Purchase Order.
    - b. Production of Equipment: 20 to 24 Weeks After Receipt of Approved Submittals.
    - c. Shipment of Equipment: 3 to 4 Weeks after Receipt of Approved Test Curves.
  - B. **Control Panel:**
    - a. Submittal Data Available: 6 to 8 Weeks After Receipt of Purchase Order.
    - b. Production of Equipment: 22 to 24 Weeks After Receipt of Approved Submittals
6. Pricing is valid for 30 days from the date on this offer. Market pricing fluctuates due to manufacturer's material suppliers and accordingly, after the expiration of this offer, we reserve the right to adjust pricing in response to market influences.
7. Startup shall be conducted by a TEE representative and shall demonstrate proper installation and complete installation/operation of all monitoring interfaces.
8. SCADA equipment shall be furnished and started-up by others. SCADA hook-up and functionality are required for warranty. Warranty is for defects in material and workmanship under normal use and

service and does not cover improper operation; to include; but not limited to; the pumping of solids larger than the pumping equipment is able to pass. **All remote monitoring for pump equipment protection must be operational at start up for warranty validation.**

Submittals are provided for your review and approval to ensure that you, our customer, can be sure that we have the correct perception of what is required for the project. They are forwarded to you for your agreement that the equipment and configuration offered is correct. Any order you provide us for equipment will be contingent upon your approval of provided shop drawings which, when approved, shall become the only specifications for the equipment manufactured for your project.

For more information concerning this, or if you have comments, please call me at: **863-619-3789, or my cell at 305-588-6761.** We look forward to working with you on your project and we will do a great job for you.

Sincerely,



Thomas R. Evans, President

TOM EVANS ENVIRONMENTAL, INC.



Item number	001	Product Description / Stages	150DSC4BC / 1
Quote number	1180588	Pump speed	1780 rpm

## Pump

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Qty Description

3 150DSC4BCFM46120

### Configuration

#### Construction Details

Pump Application: Wet Pit

Phase: Three

Voltage: 460V

Motor Design: FM Explosion Proof Motor

Mechanical Seal Material: Carbon Ceramic / Silicon Carbide Seal

Impeller Trim: Impeller Trim Required

Impeller Diameter: 13.82 in

Cable Length: Standard 50ft (includes power & sensor cables)

#### Accessories

Monitor Relay

Testing

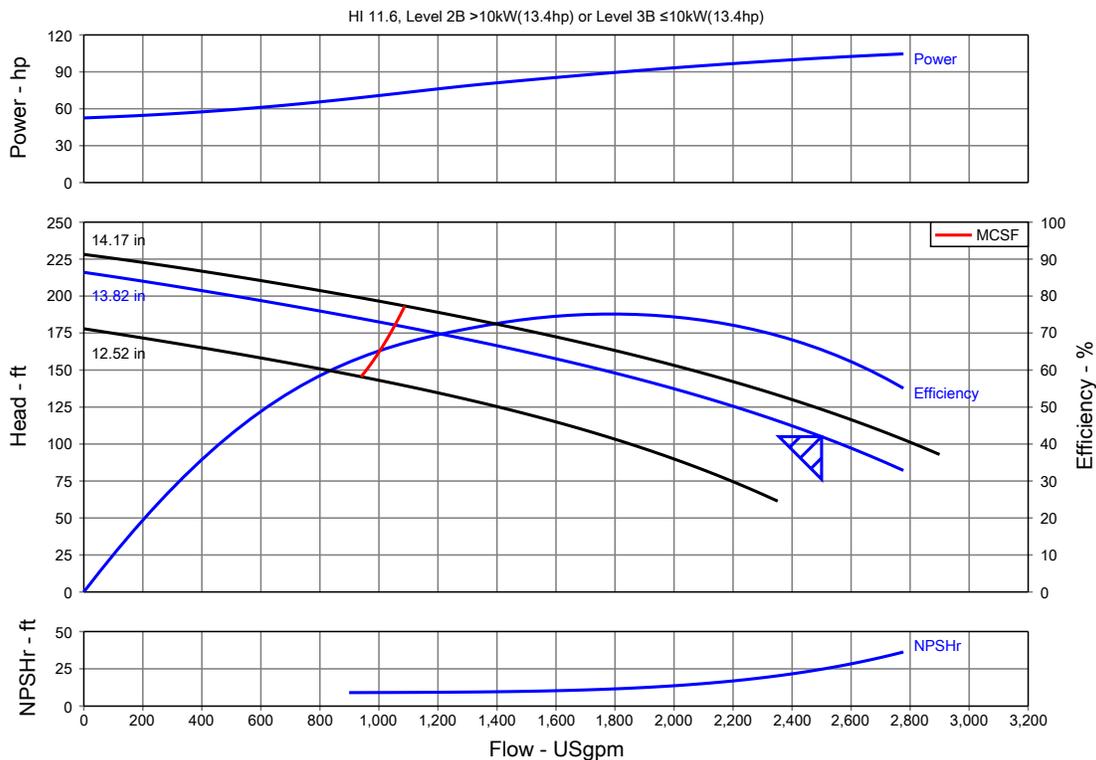
Non-Witness Performance Test

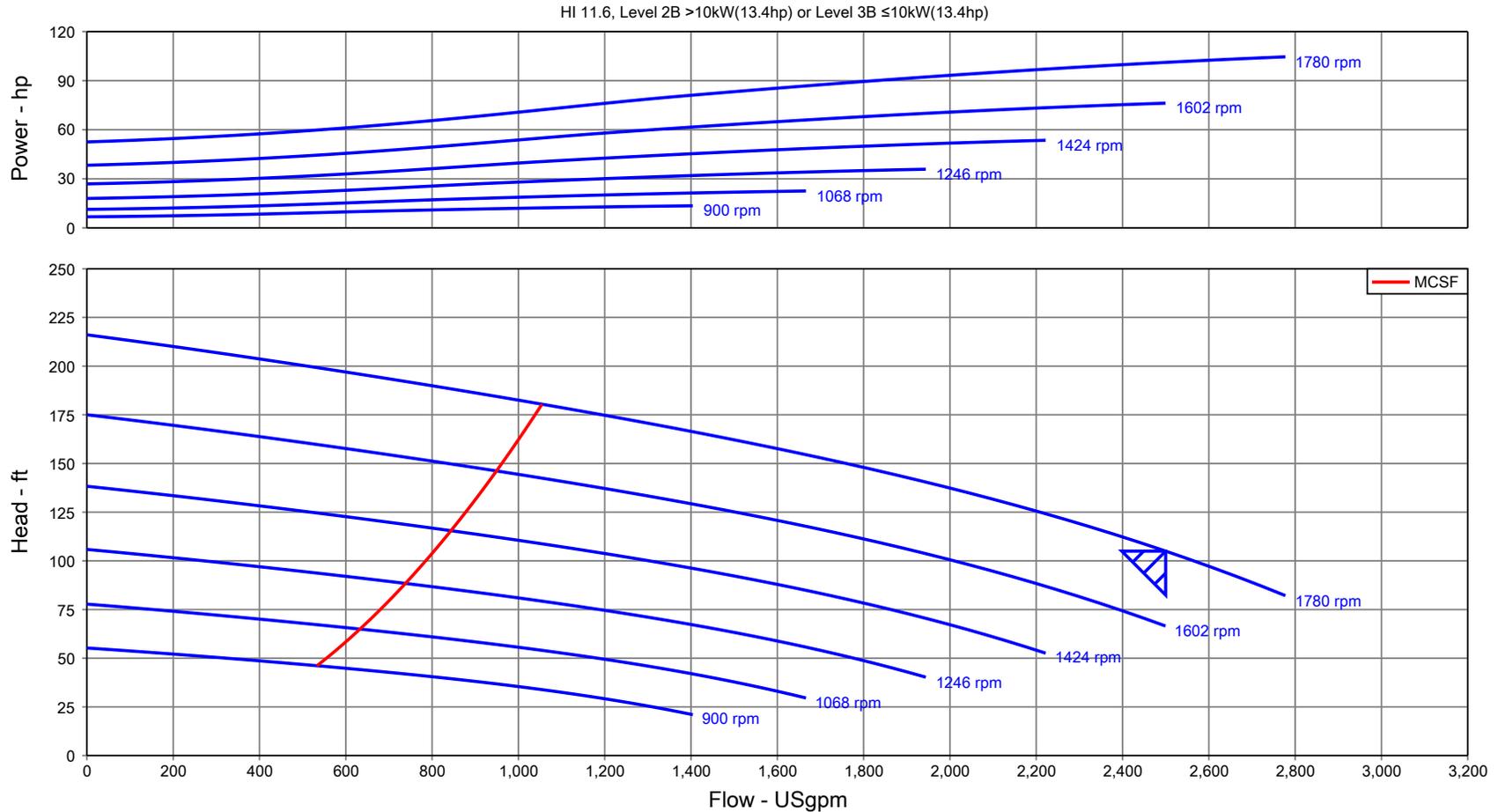
### Tom Evans Environmental

3200 Flightline Drive, Suite# 302, Lakeland, FL 33811  
 Tel: (863) 619-3789 Fax: (863) 619-8098 www.tomevans.com

Item number	: 001	Product Description	: 150DSC4BC
Service	:	Stages	: 1
Quantity	: 3	Based on curve number	: BC
Quote number	: 1180588	Date last saved	: 23 May 2022 2:48 PM

Operating Conditions		Liquid	
Flow, rated	: 2,500.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 105.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 105.7 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG
<b>Performance</b>		Viscosity, rated	: 1.00 cP
Speed criteria	: Synchronous	Vapor pressure, rated	: 0.00 psi.a
Speed, rated	: 1780 rpm	<b>Material</b>	
Impeller diameter, rated	: 13.82 in	Material selected	: Standard
Impeller diameter, maximum	: 14.17 in	<b>Pressure Data</b>	
Impeller diameter, minimum	: 12.52 in	Maximum working pressure	: 93.54 psi.g
Efficiency	: 65.51 %	Maximum allowable working pressure	: N/A
NPSH required / margin required	: 24.73 / 0.00 ft	Maximum allowable suction pressure	: N/A
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,716 / 12,798 US Units	Hydrostatic test pressure	: N/A
MCSF	: 1,054.7 USgpm	<b>Driver &amp; Power Data (@Max density)</b>	
Head, maximum, rated diameter	: 216.1 ft	Driver sizing specification	: Rated power
Head rise to shutoff	: 105.78 %	Margin over specification	: 0.00 %
Flow, best eff. point	: 1,788.6 USgpm	Service factor	: 1.00
Flow ratio, rated / BEP	: 139.78 %	Power, hydraulic	: 66.29 hp
Diameter ratio (rated / max)	: 97.50 %	Power, rated	: 101 hp
Head ratio (rated dia / max dia)	: 85.06 %	Power, maximum, rated diameter	: 105 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Minimum recommended motor rating	: 120 hp / 89.48 kW
Selection status	: Acceptable		





Item number	: 001	Product Description	: 150DSC4BC	Flow, rated	: 2,500.0 USgpm
Service		Stages	: 1	Differential head / pressure, rated	: 105.0 ft
Quantity	: 3	Efficiency	: 65.51 %	Speed, rated	: 1780 rpm
Quote number	: 1180588	Power, rated	: 101 hp	Impeller diameter, rated	: 13.82 in
Based on curve number	: BC	NPSH required	: 24.73 ft	Fluid density, rated / max	: 1.000 / 1.000 SG
Date last saved	: 23 May 2022 2:48 PM	Site Supply Frequency	: 60 Hz	Viscosity	: 1.00 cP
		Nominal speed	: 1800 rpm	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

## Construction Datasheet

Customer :	Quote number : 1180588
Customer reference :	Pump Model : 150DSC4BC4
Sales Order :-	Quantity :3
Job Name :-	Date last saved : 23 May 2022 2:48 PM
<b>Pump Data</b>	
FM Approved Yes	Insulation Class H
Discharge Size (in) 6	Service Factor 1.15
Discharge Size (mm) 150	Motor Protection
Hertz 60	Thermal Detection Klixons
Rated KW 90	Leakage Detection Float Switch
Horsepower 120	Cable Length (ft) 50.00 ft
Phase Three	Max Submergence 114
Voltage 460	Impeller Type Enclosed
Max Water Temperature °F 104	Impeller Design Mixed Flow
Max Water Temperature °C 40	Number of Vanes 2
Synchronous Speed (RPM) 1800	Back P.O. Vanes -
<b>Pump Materials of Construction</b>	
Casing Cast Iron	Shaft 420 SS
Impeller Cast Iron	Cooling Jacket Rolled Steel
Intermediate Casing -	Motor Frame Cast Iron
Suction Cover -	O-Rings NBR
Casing Ring 420 SS	Lifting Handle 304 SS
	Fastener 304 SS
<b>Mechanical Seal and Ball Bearing Data</b>	
Mechanical Seal Size (mm) -	Lubricating Oil
Mechanical Seal Material	Capacity (l) 2.4
Upper Side Carbon Ceramic	Name Turbine Oil #32
Lower Side Silicon Carbide/Silicon Carbide	Coolant
Ball Bearing	Capacity (l) NA
Upper 7222BDB	Name NA
Lower 6216ZZ	
<b>QDC and Accessories</b>	
QDC Model -	Lifting Chain -
Upper Guide Bracket -	Material -
Intermediate Guide Bracket -	Size (mm) -
	Standard Length (ft) -
<b>Estimated Weights (lbs)</b>	
Pump 2,776.0 lb	Intermediate Guide Bracket 0.00 lb
QDC 0.00 lb	Lifting Chain 0.00 lb
Upper Guide Bracket 0.00 lb	Total Weight 2,776.0 lb

### Tom Evans Environmental

## Motor Datasheet

Customer :	Quote number : 1180588
Customer reference :	Pump Model : 150DSC4BC4
Sales Order :-	Quantity :3
Job Name :-	Date last saved : 23 May 2022 2:48 PM

### Motor Data

Horsepower	120	Efficiency (%)	
Rated KW	90	1/2 Load	88.3
Phase	Three	3/4 Load	85
Voltage	460	1/1 Load	89.6
Poles	4	Power Factor (%)	
Insulation Class	H	1/2 Load	84.5
Service Factor	1.15	3/4 Load	77.2
Frame	380	1/1 Load	87.4
Full Load (A)	144	Start	
		Current (%)	708
		Torque (%)	261

### Power Cable Data

Gauge (AWG)	2/0	Nominal O.D.	
Number of Cables	1	Inch	1.845
Number of Conductors	4	mm	46.86
Type	W	Resistance at 20Å°C	
Conductor Strand	259	Ohm/MFT	0.124
Nominal Insulator Thickness		Ohm/km	0.407
Inch	0.08		
mm	2.03		

### Control Cable Data

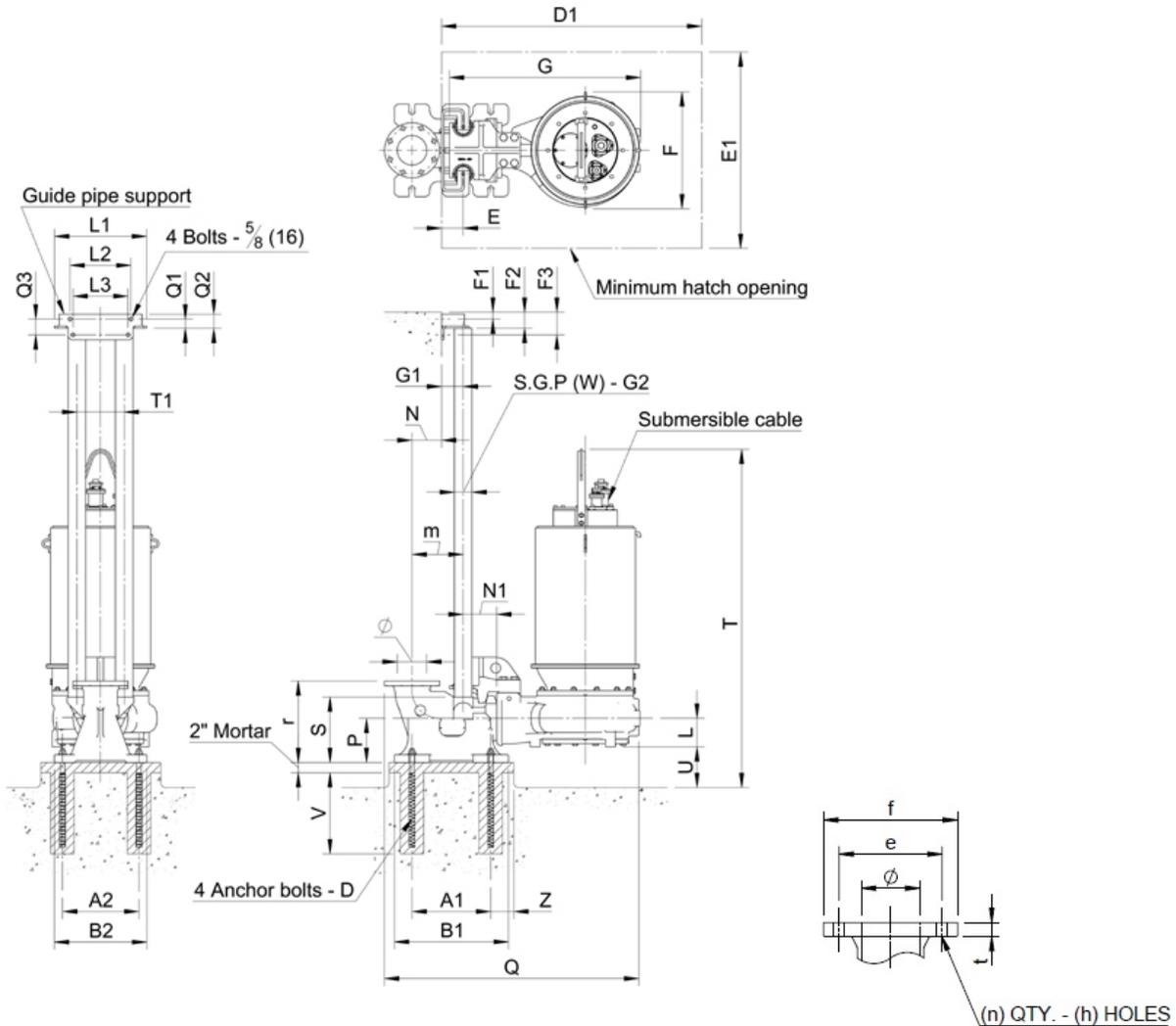
Gauge (AWG)	14	Nominal O.D.	
Number of Cables	1	Inch	0.645
Number of Conductors	5	mm	16.26
Type	SOOW	Resistance at 20Å°C	
Conductor Strand	41/30	Ohm/MFT	2.53
Nominal Insulator Thickness		Ohm/km	8.29
Inch	0.045		
mm	1.14		

# General Arrangement

## EBARA Pumps

### Dimensions

Model: 150DSC4BCFM46120 - Weights 2,776.0 lb



Note: Dimensions to be coordinated at time of order.

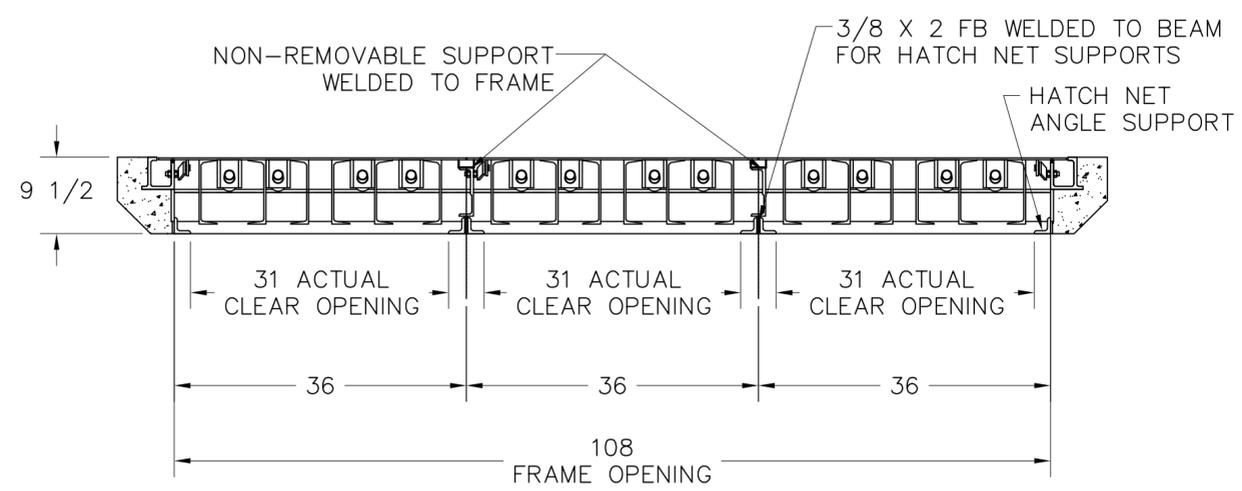
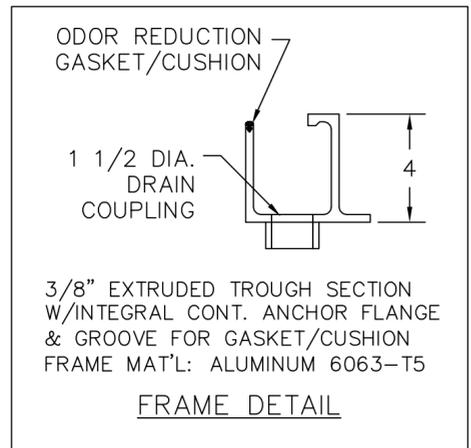
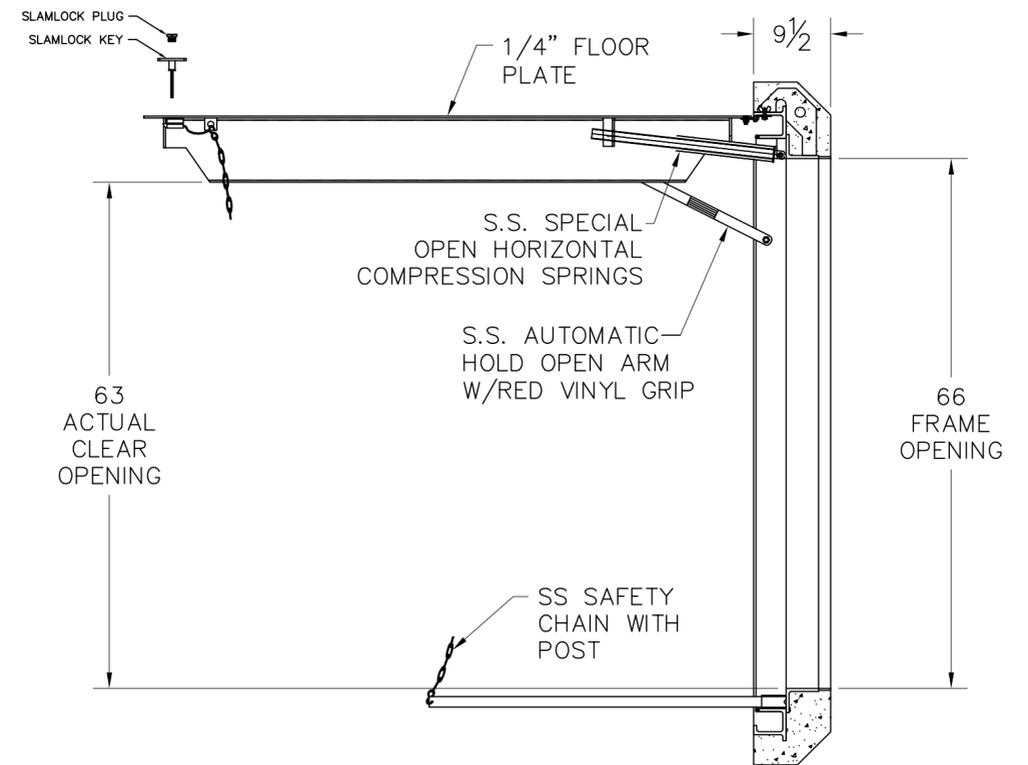
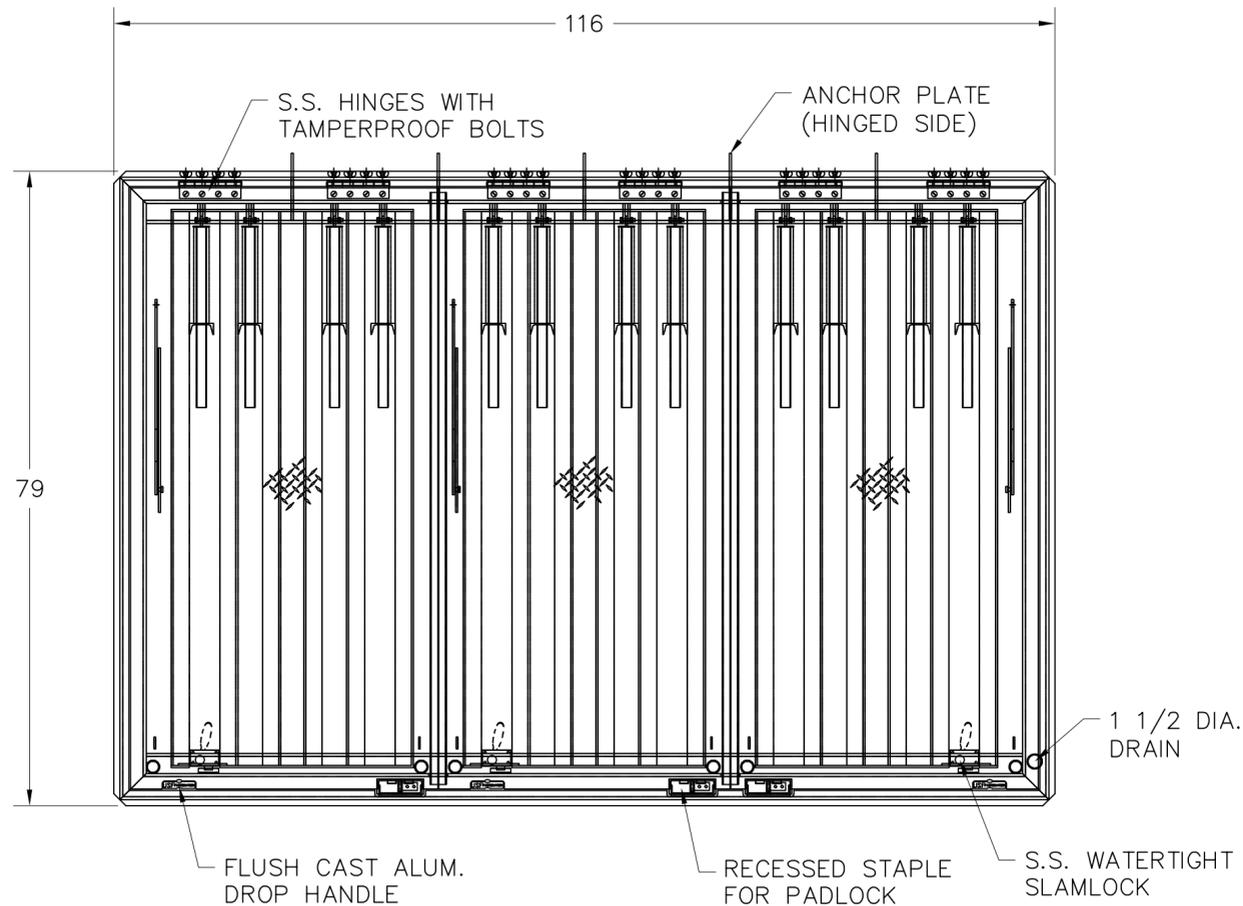
PUMP & MOTOR						Discharge Flange (ANSI 125 PSI FF)					
F	G	L	Q	T	U	∅ (mm/in)	e	f	t	n	h
25.35	39.25	5.71	52.20	70.55	C/F	-1 / -0	-	-	-	-	-

QDC												ACCESS HOLE	
∅	A1	A2	B1	B2	D	N	N1	P	S	V	Z	D1	E1
5.91	15.75	15.35	22.83	18.50	0.94	5.91	6.69	8.86	13.11	17.72	6.30	45.28	29.92

UGB												
E	F1	F2	F3	G1	G2	L1	L2	L3	Q1	Q2	Q3	T1
2.76	1.38	3.23	4.53	4.33	3.50	18.43	12.20	11.02	1.85	2.83	3.15	9.45

### NOTES:

- Dimensions are in inches
- The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



**WETWELL HATCH**

- NOTES:
- 1- MATERIAL: ALUMINUM
  - 2- LOADING: DESIGNED FOR OFF STREET LOCATIONS WHICH MAY OCCASIONALLY RECEIVE H-20 WHEEL LOADS
  - 3- 316 STAINLESS STEEL NUTS & BOLTS
  - 4- AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING

UNLESS OTHERWISE NOTED ON THIS DRAWING, CLEARANCE BETWEEN FRAME AND COVER(S) IS DESIGNED NOT TO EXCEED 3/8".

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INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M

BREAK ALL SHARP CORNERS & EDGES

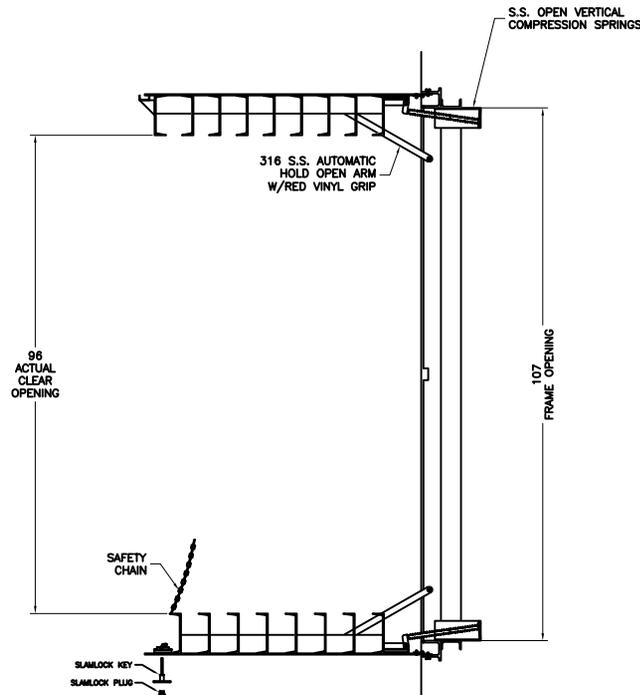
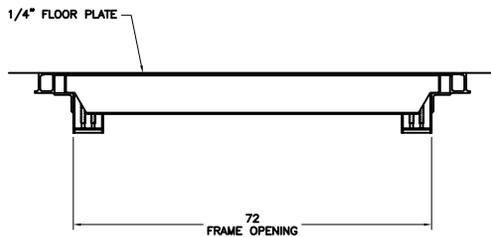
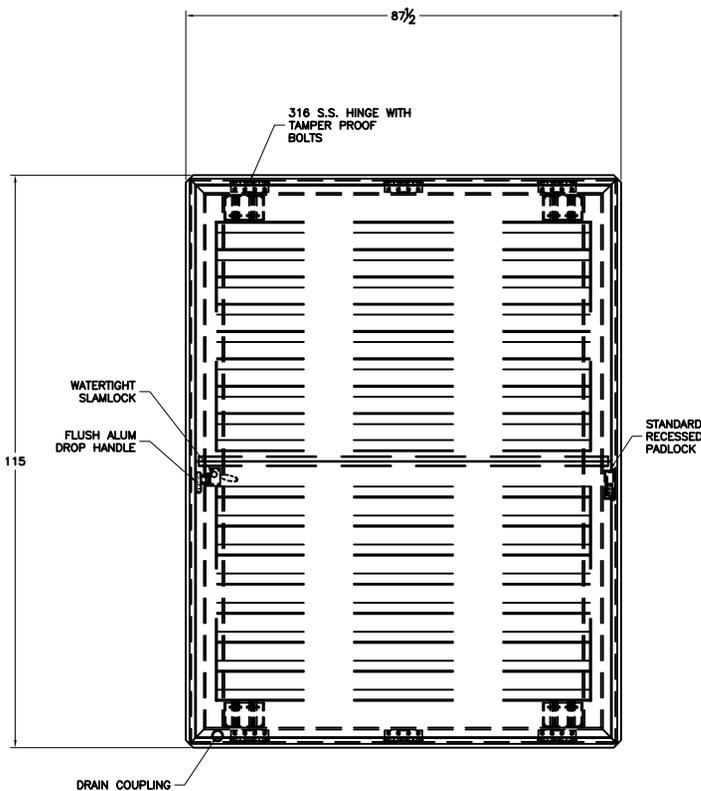
TOLERANCES UNLESS OTHERWISE SPECIFIED:

INCHES AND FRACTIONS:

<10' = ± 1/8

>10' = ± 1/4

COPYRIGHT © 2022 ALL RIGHTS RESERVED	<p><b>U.S.F. FABRICATION INC.</b> HIALEAH, FLORIDA</p>			
	<p><b>HATCH THT 66 X 108 ALUMINUM</b> W/SPRINGS, SLAMLOCK, REC'D PADLOCK, CHAINS, BIT. PAINT &amp; SAFETY NET</p>			
<p>DRAWN BY: C.S.</p> <p>APP'D BY: C.S.</p>	<p>SCALE: 1=16</p> <p>DWG. NO: 1000205489</p>	<p>SHEET: 1 OF 1</p> <p>SHEET SIZE: C</p>	<p>DATE: 05/23/22</p> <p>REV: 0</p>	



**SELECTED FEATURES**

1. OPEN VERTICAL SPRINGS
2. SLAMLOCK
3. STD. RECESSED PADLOCK
4. SAFETY CHAIN
5. BITUMINOUS COATING

**NOTES**

1. MATERIAL: ALUMINUM
2. FINISH: MILL
3. LOADING: DESIGNED FOR AASHTO H-20 WHEEL LOADS WITH MAX DEFL OF 1/150 OF THE SPAN DESIGNED FOR OCCASIONAL TRAFFIC ONLY.
4. 316 SS NUTS & BOLTS
5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING
6. APPROX HATCH WT: 1100.30 LBS

ODOR REDUCTION GASKET/CUSHION

1 1/2 DIA. DRAIN COUPLING



3/8" EXTRUDED TROUGH SECTION W/INTEGRAL CONT. ANCHOR FLANGE & GROOVE FOR GASKET/CUSHION  
FRAME MAT'L: ALUMINUM 6063-T5

**FRAME DETAIL**

**NOTE:**  
AS AN AUTOMATED DRAWING, THE DESIGN HAS NOT BEEN REVIEWED BY USFF ENGINEERING AND IS THEREFORE TO BE USED FOR REFERENCE ONLY. USFF RESERVES THE RIGHT TO ADJUST DIMENSIONS TO INSURE ADHERENCE TO CUSTOMER REQUIREMENTS AND PROPER OPERATION OF THE PRODUCT.

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INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M

BREAK ALL SHARP CORNERS & EDGES TO 0.01

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL

<10' = ± 1/8

>10' = ± 1/4

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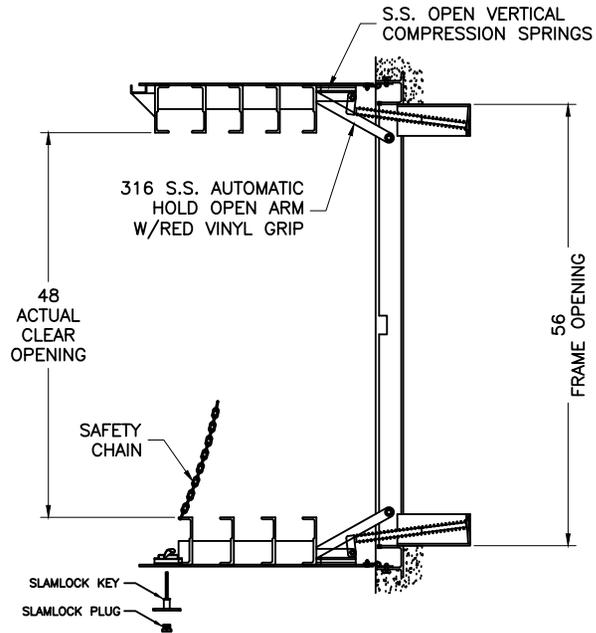
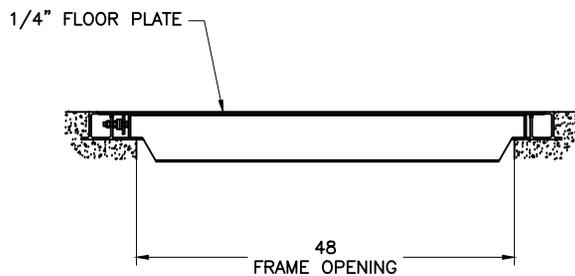
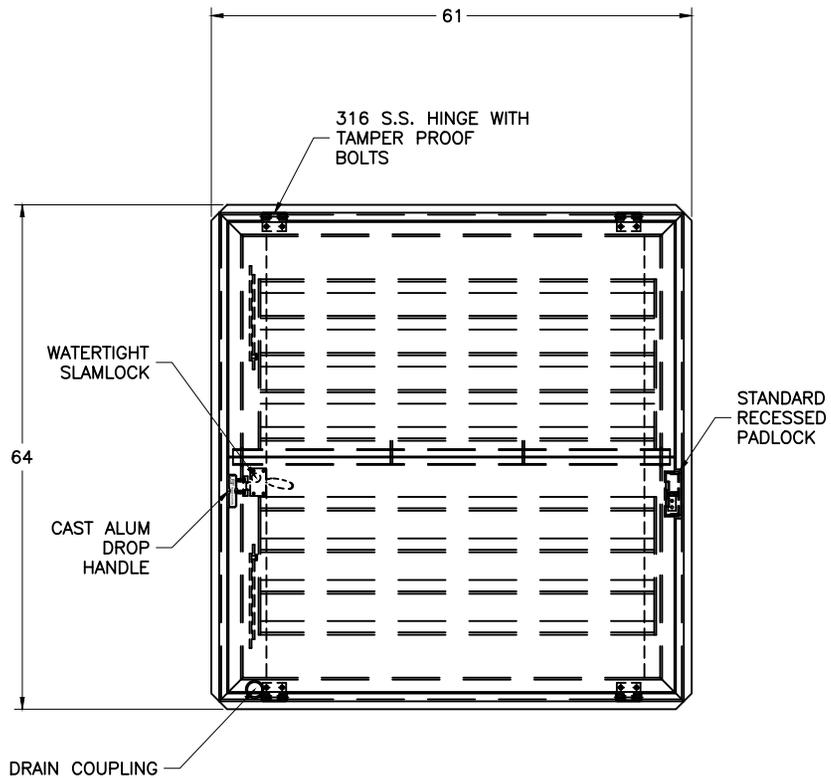
**U.S.F. FABRICATION INC.**

HALEAH, FL

**VALVE VAULT HATCH**

**HATCH THD 72 X 107 ALUM**

DWN. BY: BOB	SCALE: 1:40	SHEET: 1 OF 1	DATE: 10/14/20
CHK. BY: BOB	DWG # 1000165704	SHEET SIZE: A	REV: 0

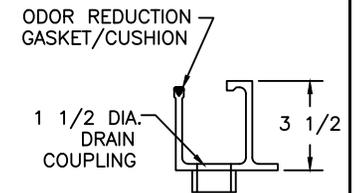


**SELECTED FEATURES**

1. OPEN VERTICAL SPRINGS
2. SLAMLOCK
3. STD. RECESSED PADLOCK
4. SAFETY CHAIN
5. BITUMINOUS COATING

**NOTES**

1. MATERIAL: ALUMINUM
2. FINISH: MILL
3. LOADING: DESIGNED FOR AASHTO H-20 WHEEL LOADS WITH MAX DEFL OF 1/150 OF THE SPAN DESIGNED FOR OCCASIONAL TRAFFIC ONLY.
4. 316 SS NUTS & BOLTS
5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING
6. APPROX HATCH WT: 324.35 LBS



1/4" EXTRUDED TROUGH SECTION W/INTEGRAL CONT. ANCHOR FLANGE & GROOVE FOR GASKET/CUSHION  
 FRAME MAT'L: ALUMINUM 6063-T5

**FRAME DETAIL**

**NOTE:**  
 AS AN AUTOMATED DRAWING, THE DESIGN HAS NOT BEEN REVIEWED BY USFF ENGINEERING AND IS THEREFORE TO BE USED FOR REFERENCE ONLY. USFF RESERVES THE RIGHT TO ADJUST DIMENSIONS TO INSURE ADHERENCE TO CUSTOMER REQUIREMENTS AND PROPER OPERATION OF THE PRODUCT.

UNLESS OTHERWISE NOTED ON THIS DRAWING, CLEARANCE BETWEEN FRAME AND COVER(S) IS DESIGNED NOT TO EXCEED 3/8".

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INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M

BREAK ALL SHARP CORNERS & EDGES TO 0.01

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL

<10' = ± 1/8

>10' = ± 1/4

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**U.S.F. FABRICATION INC.**

HIALEAH, FL

**FLOW METER HATCH**

**HATCH THD 48 X 56 ALUM**

DWN. BY:	SCALE:	SHEET:	DATE:
BOB	1:24	1 OF 1	05/17/22
CHK. BY:	DWG #	SHEET SIZE:	REV:
BOB	1000205398	A	0

# Bypass Pump Performance Datasheet

Company Name	
Company contact number	
Quote Number	1170167
Project name	Default

Model/Order No.	PP88S12
Stages	1
Quantity of pumps in parallel	1
Based on curve number	88S12
Saved Date	18 Oct 2021 8:24 PM

## Operating Conditions

Flow, rated	: 2,500.0 USgpm
Head, rated (requested)	: 105.0 ft
Head, rated (actual)	: 105.0 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available	: Ample
Site Supply Frequency	: 60 Hz

## Performance

Speed criteria	: Variable speed
Speed	: 1926 rpm
Impeller dia.	: 12.25 x 0°
Impeller diameter, maximum	: 12.25 x 0°
Impeller diameter, minimum	: 10.25 x 20°
Efficiency	: 64.42 %
NPSH required / margin required	: 13.94 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 2,909 / 13,310 US Units
MCSF	: 745.4 USgpm
Head max.	: 179.0 ft
Head rise to shutoff	: 70.38 %
Flow, best eff. point	: 2,479.5 USgpm
Flow ratio, rated / BEP	: 100.83 %
Diameter ratio (rated / max)	: 100.00 %
Head ratio (rated dia / max dia)	: 100.00 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

## Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids concentration, by volume	: 0.00 %
Temperature	: 68.00 deg F
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

## Material

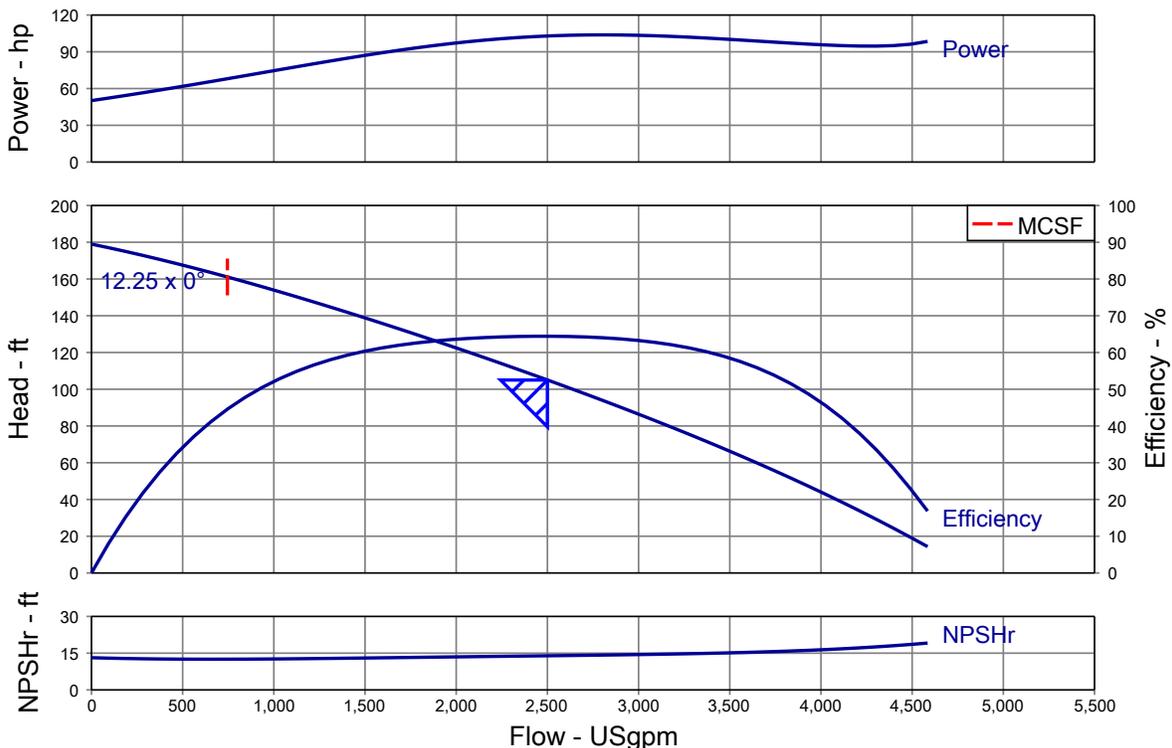
Material selected	: Standard
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## Pressure Data

Shut off pressure	: 77.46 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

## Driver & Power Data (@Max density)

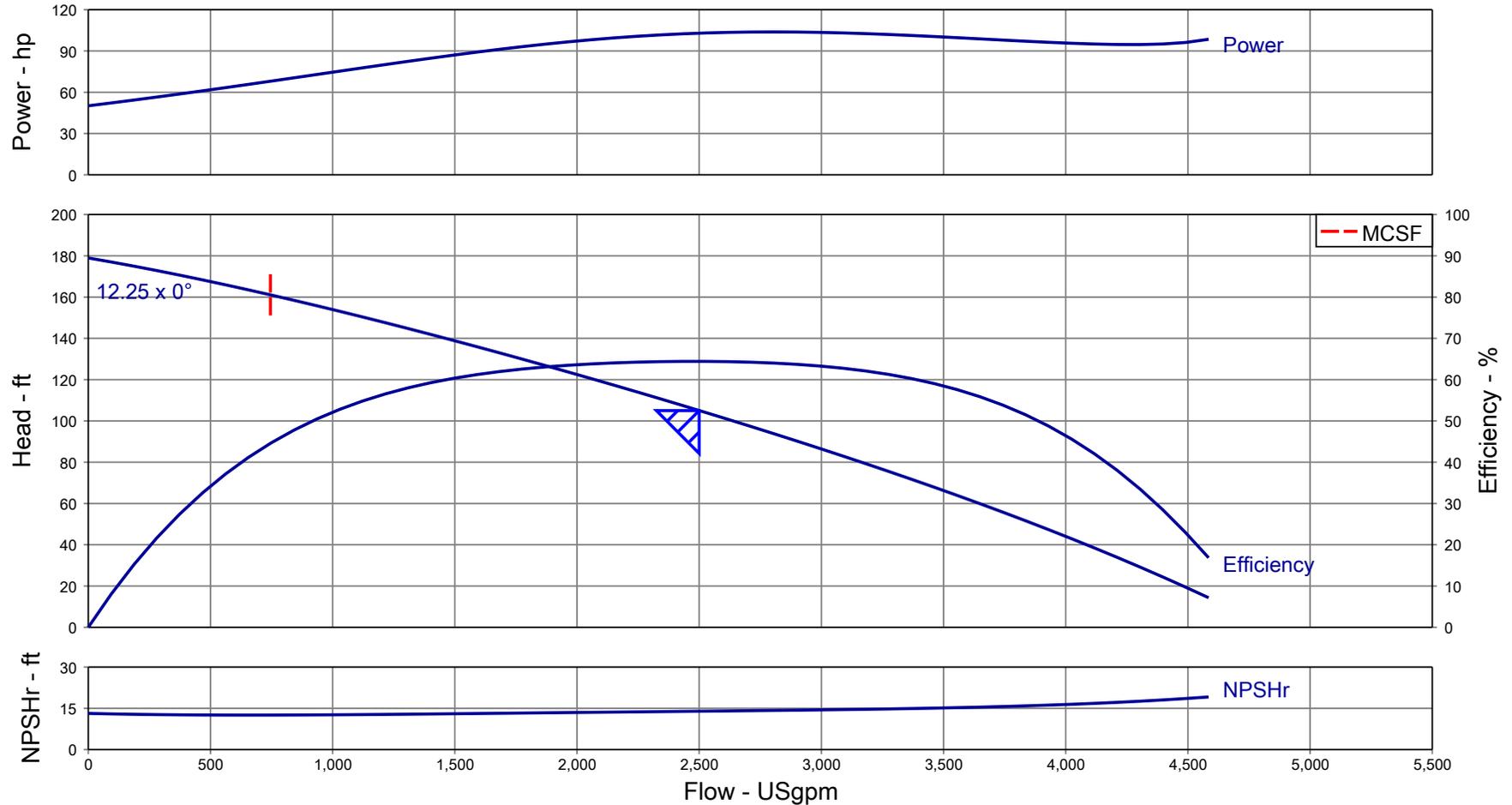
Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 66.30 hp
Power, rated	: 103 hp
Power, maximum	: 104 hp
Motor rating	: 125 hp / 93.21 kW



# Bypass Pump Performance Curve

Company Name	
Company contact number	

Quote Number	1170167
Quote Date	05 Aug 2021
Project name	Default



Description	: PP88S12
Stages	: 1
Flow, rated	: 2,500.0 USgpm
Head, rated	: 105.0 ft

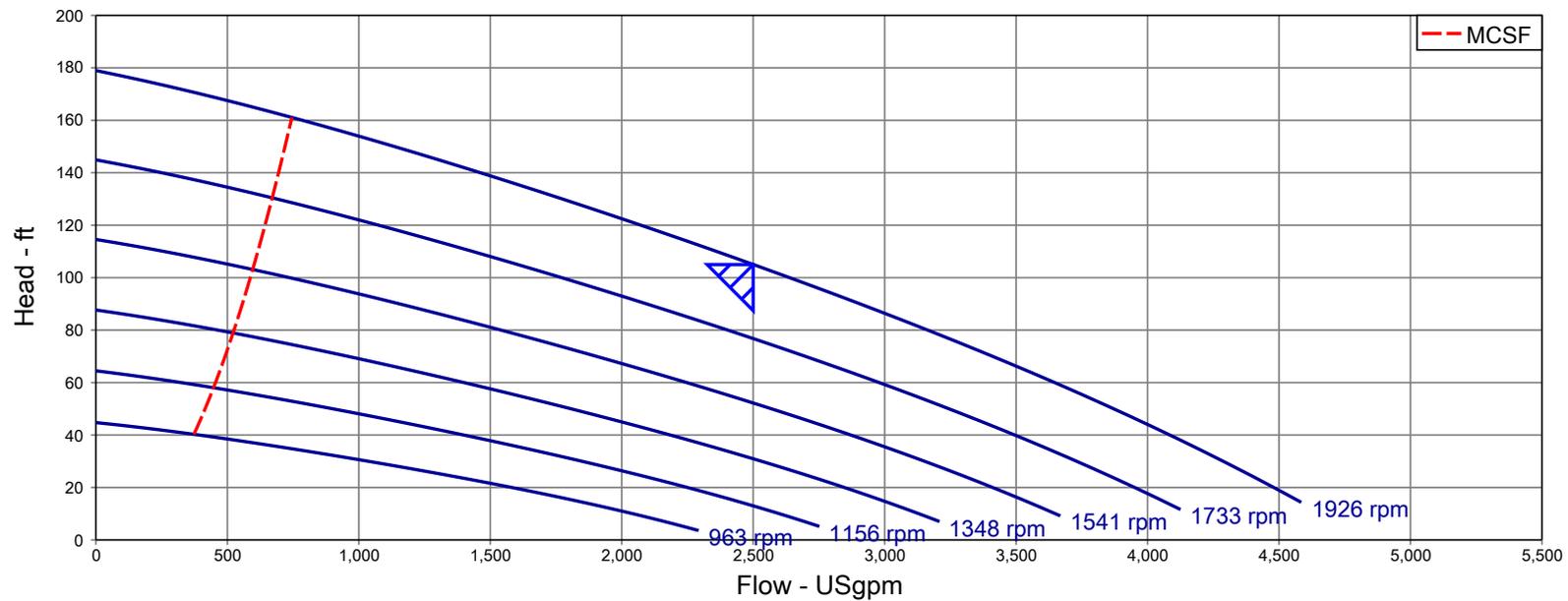
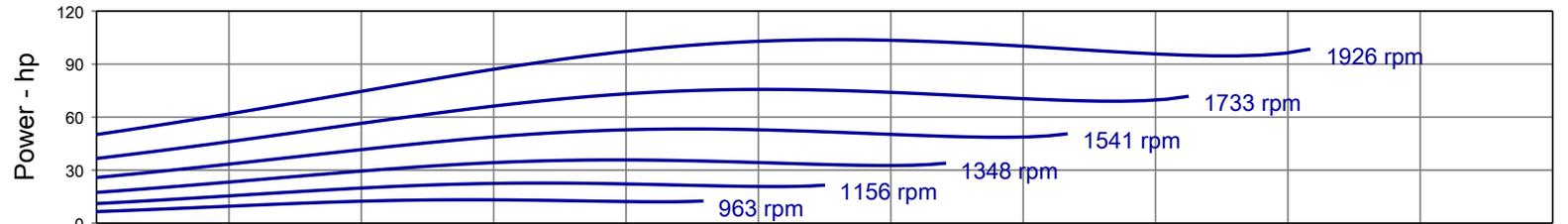
Speed	: 1926 rpm
Based on curve number	: 88S12
Efficiency	: 64.42 %
Power, rated	: 103 hp

NPSH required	: 13.94 ft
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Saved Date	: 18 Oct 2021 8:24 PM

# Multi-Speed Performance Curve

Company Name	
Company contact number	

Quote Number	1170167
Quote Date	05 Aug 2021
Project name	Default



Description	: PP88S12
Stages	: 1
Flow, rated	: 2,500.0 USgpm
Head, rated	: 105.0 ft

Speed	: 1926 rpm
Based on curve number	: 88S12
Efficiency	: 64.42 %
Power, rated	: 103 hp
Impeller dia.	: 12.25 in

NPSH required	: 13.94 ft
Fluid density	: 1.000 / 1.000 SG
Viscosity	: 1.00 cP
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Saved Date	: 18 Oct 2021 8:24 PM

# Bypass Pump Performance - Additional Data

Company Name	
Company contact number	
Quote Number	1170167
Project name	Default

Model/Order No.	PP88S12
Stages	1
Quantity of pumps in parallel	1
Based on curve number	88S12
Saved Date	18 Oct 2021 8:24 PM

## Performance Data

Head, maximum speed, rated flow	: 105.0 ft
Head, minimum speed, rated flow	: -
Head maximum, rated speed	: 179.0 ft
Efficiency adjustment factor, total	: 1.00
Power adjustment, total	: 0.30 hp
Head adjustment factor, total	: 1.00
Flow adjustment factor, total	: 1.00
Flow adjustment factor, efficiency only (shift BEP)	: 1.00
Flow adjustment factor, end-of-curve only, total	: 1.00
MCSF adjustment factor	: 1.00
NPSHR adjustment factor, total	: 1.00
User applied performance adjustment comments	:
NPSH margin dictated by pump supplier	: 0.00 ft
NPSH margin dictated by user	: 0.00 ft
NPSH margin used (added to 'required' values)	: 0.00 ft

## Mechanical Limits

Torque, rated power, rated speed	: 5.34 hp/100 rpm
Torque, maximum power, rated speed	: 5.39 hp/100 rpm
Torque, driver power, full load speed	: 7.00 hp/100 rpm
Torque, driver power, rated speed	: 6.49 hp/100 rpm
Torque, pump shaft limit	: -
Radial load, worst case	: -
Radial load limit	: -
Impeller peripheral speed, rated	: -
Impeller peripheral speed limit	: -

## Various Performance Data

	Flow (USgpm)	Head (ft)	Efficiency (%)	NPSHr (ft)	Power (hp)
Shutoff, rated	0.00	179.0	-	-	50.16
Shutoff, maximum	0.00	233.5	-	-	74.61
MCSF	745.4	161.1	44.57	12.54	68.01
Rated flow, minimum	2,500.0	-	-	-	3.38
Rated flow, maximum	2,500.0	105.0	64.19	-	149
BEP flow, rated	2,479.5	105.8	64.42	13.92	103
120% rated flow, rated	3,000.0	86.42	63.26	14.43	103
End of curve, rated	4,584.8	14.33	16.85	19.12	98.48
End of curve, minimum	1,783.0	2.17	16.06	2.89	6.07
End of curve, maximum	5,237.0	18.70	16.86	24.95	147
Maximum value, rated	-	179.0	64.42	-	104
Maximum value, maximum	-	-	64.16	-	155

## System differential pressure

	@ Density, rated	@ Density, max
Differential pressure, rated flow, rated (psi)	45.46	45.46
Differential pressure, shutoff, rated (psi)	77.46	77.46
Differential pressure, shutoff, maximum (psi)	101.1	101.1

## Discharge pressure

	@ Suction pressure, rated	@ Suction pressure, max	@ Suction pressure, rated	@ Suction pressure, max
Discharge pressure, rated flow, rated (psi.g)	45.46	45.46	45.46	45.46
Discharge pressure, shutoff, rated (psi.g)	77.46	77.46	77.46	77.46
Discharge pressure, shutoff, maximum (psi.g)	101.1	101.1	101.1	101.1

## Ratios

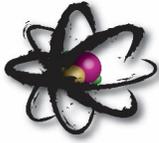
Maximum flow / rated flow, rated	: 183.39 %	Head rated speed / head minimum speed, rated flow	: -
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## Stage, Speed and Solids Limits

Stages, maximum	: 1
Stages, minimum	: 1
Pump speed limit, maximum	: 2000 rpm
Pump speed limit, minimum	: 750 rpm
Curve speed limit, maximum	: 2200 rpm
Curve speed limit, minimum	: 749 rpm
Variable speed limit, maximum	: 2200 rpm
Variable speed limit, minimum	: 749 rpm
Solids size limit	: 0.00 in

## Typical Driver Data

Driver speed, full load	: 1785 rpm
Driver speed, rated load	: 1788 rpm
Driver efficiency, 100% load	: N/A
Driver efficiency, 75% load	: N/A
Driver efficiency, 50% load	: N/A



# C. C. CONTROL CORP.

5760 CORPORATE WAY, SUITE 100  
WEST PALM BEACH, FLORIDA 33407

PHONE: 561 293-3975  
FAX: 561 293-3976

**CUSTOMER:** TOM EVANS ENVIRONMENTAL, INC.

**ATTN:** TOM EVANS

**PROJECT:** LS NO. 61 REHABILITATION  
CITY OF POMPANO BEACH

## DESCRIPTION

## QUAN

C. C. CONTROL CORP. PROPOSES TO FURNISH THE FOLLOWING COMPLETE WITH EXCEPTIONS AS LISTED:

**EXCEPTIONS:**

- A) QUOTE DOES NOT INCLUDE CONDUIT SYSTEM
- B) QUOTE DOES NOT INCLUDE WIRE/CABLE
- C) QUOTE DOES NOT INCLUDE INSTALLATION
- D) QUOTE DOES NOT INCLUDE FIELD TERMINATIONS
- E) QUOTE DOES NOT INCLUDE ANY PANEL MTG. RACKS
- F) QUOTE DOES NOT INCLUDE ANY PIPE TAPS OR PIPE SADDLES
- G) QUOTE DOES NOT INCLUDE ANY PANEL OR J-BOX MOUNTING HARDWARE
- H) QUOTE DOES NOT INCLUDE JUNCTION OR TERMINATION BOXES
- I) QUOTE DOES NOT INCLUDE SEPARATE DERAGGER CONTROLLERS  
DERAGGING CAPIBILITIES BUILT INTO EATON DG1 VFD SOFTWARE

**ITEM NO.1**

**MAIN CONTROL PANEL MCP**

SCHAEFER'S SPFS-903618 NEMA 12 CARBON STEEL FREESTANDING ENCLOSURE	1
WITH THE FOLLOWING:	
A) SIZE: 90"H X 36"W X 18"D	
B) 3PT. PADLOCKING HANDLE	
C) DOOR STOP KIT	
D) INTERNAL LIGHT BRACKET	
E) SUBPANEL: SP-90P36F1	1
F) FINISH: ANSI 61 GRAY	
HOFFMAN AHCI10E CORROSION INHIBITOR	2
SQD 9007 AP221 DOOR SWITCH	1
CUSTOM DOOR SWITCH BRACKET	1
ASCO 252120NF015AN3J0 PROTECTOR MODULE, 3-POSITION, 20A, COMP. SCREW, NEMA 4X	1
FINDER 60.13.8.120.0050 120VAC 3PDT PLUG-IN RELAY, LOCKABLE TEST BUTTON & LED	11
FINDER 90.03 11-PIN RELAY SOCKET	11
SQD QOU120 120V 20A 1P CIRCUIT BREAKER	1
SQD QOU115 120V 15A 1P CIRCUIT BREAKER	3
SQD 9001 SKT38LGG31 LED PILOT LIGHT, PUSH-TO-TEST, GREEN, 120V	4
SQD 9001 SKT38LYA31 LED PILOT LIGHT, PUSH-TO-TEST, AMBER, 120V	9
MAXLITE LB2450 LITEBAR 24" 80 CRI 5000K	1
MAXLITE LBHWC70 70" INCH HARDWIRE CORD, LITEBAR CONNECTION HEAD, NO PLUG ON OTHER END	1
MAXLITE LBPMB PIVOT MOUNTING BRACKETS FOR LITEBAR	1
HUBBELL CS115I 15A SINGLE POLE SWITCH	1
HUBBELL SS1 S.S.SINGLE TOGGLE SW. PLATE	1
HUBBELL GFRST15I GFI DUPLEX 15A RECEPT.	1
HUBBELL SS26 S.S. DUPLEX GFI PLATE	1
SQD 9001 SKS43B 3 POSITION SELECTOR SWITCH	3
SQD 9001 SKS11B 2 POSITION SELECTOR SWITCH	5
SQD 9001 SKR1U PUSH BUTTON OPERATOR	1
SQD 9001 KA1 CONTACT BLOCK, (1)NO, (1)NC	9
MPE PMR1 PUMP MONITOR RELAY W/ SOCKET	3
DIVERSIFIED ARA-120-AFE TRIPLEX ALTERNATOR	1
DIVERSIFIED TBC-120-ABA ON DELAY TIMER	6

DIVERSIFIED TBD-24-ABA OFF DELAY TIMER	1
FINDER 90.02 8-PIN RELAY SOCKET	6
DIVERSIFIED ISO-120-ACE 4-CIRCUIT 120VAC INTRINSIC SAFETY BARRIER	1
DIVERSIFIED ISO-120-AAE 2-CIRCUIT 120VAC INTRINSIC SAFETY BARRIER	1
HOFFMAN L-SC252015 NEMA 12 SC ENCLOSURE	1
HOFFMAN L-P2520 SUB-PANEL	1
PULS CP10.241 24VDC 10A POWER SUPPLY, 100-240VAC INPUT	1
DATA FLOW SYSTEMS TAC PACK TCU ASSEMBLY WITH THE FOLLOWING:	1
A) TAC PACK TCU (TCU001 W/RADIO)	
B) SNAP-IN INSTALLATION KIT W/WIRE HARNESS	
C) RF PIGTAIL	
D) RTU SURGE PROTECTION KIT	
E) POLYPHASE COAXIAL SURGE PROTECTOR	
F) P4 MODBUS CONNECTOR	
G) RS485 SURGE PROTECTOR	
DATA FLOW SYSTEMS EXISTING ANTENNA SUBSYSTEM AND SERVICES WITH THE FOLLOWING:	1
A) RTA209 ANTENNA (INSTALL @ 21' AGL)	
B) COAXIAL CABLE ASSEMBLY AND HEAT SHRINK	
C) FCC LICENSING SERVICES	
<b>NOTE:</b> COAX CABLE LENGTH MUST BE SPECIFIED WHEN ORDERED.	
ASTRODYNE AD55-A/DRL DIN RAIL MOUNT POWER SUPPLY W/ BATTERY CHARGER, 13.8VDC, 3.5A	1
POWER SONICS PS12180F 18AH 12VDC BATTERY	1
BATTERY ISOLATOR, 12VDC	1
PRECISION DIGITAL PD6602-LNN LOOP-POWERED NEMA 4X PANEL MOUNT DISPLAY METER	1
N-TRON 508TX UNMANAGED 8-PORT ETHERNET SWITCH	1
BLACKBOX EVNSL641-0007 GIGATRUE CAT6 PATCH CABLE, BLUE, 7FT	2
BLACKBOX EVNSL641-0015 GIGATRUE CAT6 PATCH CABLE, BLUE, 15FT	1
RED LION DSPSX000 DATA STATION PLUS PROTOCOL CONVERTER	1
ALLEN-BRADLEY 2711P-T15C21D8S OPERATOR INTERFACE, TOUCH SCREEN, 15", COLOR, 24VDC	1
ALLEN-BRADLEY 1756-A17 17-SLOT RACK	1
ALLEN-BRADLEY 1756-PB72 CONTROLLOGIX 18-32VDC, 75W POWER SUPPLY	1
ALLEN-BRADLEY 1756-L83E CONTROLLOGIX PROCESSOR, 4MB MEMORY	1
ALLEN-BRADLEY 1756-EN2T ETHERNET COM. MODULE	1
ALLEN-BRADLEY 1756-IB16 16-POINT DIGITAL INPUT MODULE, 24VDC	2
ALLEN-BRADLEY 1756-OB16I 16-POINT 24VDC OUTPUT MODULE	1
ALLEN-BRADLEY 1756-IF8I 8-CHANNEL ISOLATED ANALOG INPUT CARD	2
ALLEN-BRADLEY 1756-OF8I 8-CHANNEL ISOLATED ANALOG OUTPUT CARD	1
ALLEN-BRADLEY 1756-TBCH WIRING ARM, 36-PIN	1
ALLEN-BRADLEY 1756-TBNH WIRING ARM, 20-PIN	1
ALLEN-BRADLEY 1756-N2 CONTROLLOGIX SLOT FILLER	1
FINDER 60.13.9.024.0070 24VDC 3PDT PLUG-IN RELAY, LOCKABLE TEST BUTTON & LED	17
FINDER 90.03 11-PIN RELAY SOCKET	17
PHOENIX CONTACT 2838228 PT2X2-24DC-ST PLUG-TRAB SURGE ARRESTER	12
PHOENIX CONTACT 2839208 PT2X2-BE PLUG-TRAB BASE	12
PHOENIX CONTACT 3044102 UT4 TERMINAL BLOCK	2
PHOENIX CONTACT 3044128 UT4 PE GROUND TERMINAL BLOCK	1
PHOENIX CONTACT 3047248 END COVER, YELLOW	1
PHOENIX CONTACT 1201442 E/UK END STOP	2
PHOENIX CONTACT 3044814 UTTB 4 DOUBLE-LEVEL TERMINAL BLOCK	60
PHOENIX CONTACT 3047293 END COVER, UTTB TERMINAL, GRAY	2
PHOENIX CONTACT 3047303 SPACER PLATE, UTTB TERMINAL	2
PHOENIX CONTACT 1201413 E/UK 1 HIGH END STOP	6
PHOENIX CONTACT PREPRINTED TERMINAL MARKERS	LOT
FEDERAL SIGNAL LP3P-120R 120VAC RED ALARM STROBE LIGHT	1
1/2" x 12" 316 S.S. NIPPLE	1
WHEELLOCK 31T-115-2 120V ALARM HORN	1
WHEELLOCK WBB-S WP WEATHERPROOF BACKBOX	1
1/2" x 2" 316 S.S. NIPPLE	1
T & B H050-TB HUB 1/2 INCH	1
DINRAIL SUPPORT BRACKETS	6
WIRE, DUCT & NAMEPLATES	LOT
UL 698A LABEL	LOT

ITEM NO.2

**LIFT STATION 125HP VFD CONTROL PANEL (3-REQUIRED)**

EATON DG1 SERIES 125HP VARIABLE FREQUENCY DRIVE WITH THE FOLLOWING:	3
A) VOLTAGE: 460VAC	
B) CURRENT RATING: 156A	
C) BY-PASS: MANUAL WITH SOFTSTART	
D) OUTPUT FILTER: 3%	
E) LINE REACTOR: 3%	
F) CONTROLS: START/STOP BUTTONS, SPEED POT, MULTI-COLOR LIGHT LIT	

G) ENCLOSURE ENV. RATING: NEMA 1	
H) ENCLOSURE DIMENSIONS: 82.35"H X 31.1"W X 24.3"D	
EATON VFD START-UP AND TRAINING	LOT
ITEM NO.3	
<b><u>SUBMERSIBLE LEVEL TRANSDUCER</u></b>	
KELLER AMERICA 1023.01607.051311.13 LEVELRAT TRANSDUCER WITH THE FOLLOWING:	1
A) POWER: 24VDC	
B) OUTPUT: 4-20MADC	
C) RANGE: 0-46.13 ftWC (0-20 PSI)	
D) CABLE LENGTH: 50 FT.	
E) TAG: <b>TBD</b>	
KELLER AMERICA 900001.0034 TERMINATION ENCLOSURE	1
KELLER AMERICA 900001.0002 DRYING TUBE	1
KELLER AMERICA 900001.0009 BELLOWS ASSEMBLY	1
KELLER AMERICA HU02216001 CABLE HANGER	1
ITEM NO.4	
<b><u>LEVEL FLOATS</u></b>	
ANCHOR SCIENTIFIC GSI50NONC LEVEL FLOAT, NO/NC	5
ITEM NO.5	
<b><u>MAGNETIC FLOW METER</u></b>	
SIEMENS 7ME6310-4VJ11-1AA2-Z+N02 MAG 3100 MAGNETIC FLOWMETER WITH THE FOLLOWING:	1
A) SIZE: 10"	
B) PROCESS CONNECTION: CLASS 150, CARBON STEEL FLANGE	
C) LINING MATERIAL: SOFT RUBBER	
D) ELECTRODES: AISI 316 Ti	
E) GROUNDING RINGS: TGX:001F0100	2
F) CABLE: 33 FEET	1
G) OPTION: SUBMERSSIBLE KIT FOR TRANSMITTER TERMINAL BOX	1
H) TAG: <b>TBD</b>	
SIEMENS 7ME6920-2PA30-1AA0 MAG 6000 FLOW TRANSMITTER WITH THE FOLLOWING:	1
A) ENCLOSURE: IP66 / NEMA 4	
B) ENCL. MATERIAL: ABS PLASTIC	
C) OPTION: FDK:085U0234 MAG 6000 HART COMM. MODULE	1
D) TAG: <b>TBD</b>	
2" X 60" ALUMINUM PIPE STANCHION W/ 10" X 10" X 1/2" ALUMINUM BASE	1
SCHAEFER SPJH4SS6-1084 NEMA 4X 316L SST. ENCLOSURE	1
SCHAEFER SPPJ-108 JIC ENCLOSURE SUBPANEL, 8-7/8" x 6-7/8", CARBON STEEL	1
EDCO SLAC-02036 SURGE ARRESTER - OC	1
ALUMINUM SUNSHIELD, 8 GA., 14"H X 14"W X 10"D (TOP) 6"D (BOTTOM)	1
McMASTER-CARR 8610K85 EPDM WEATHER RESISTANT RUBBER, 12"H x 12"W x 3/16" T	1
McMASTER-CARR 1605A76 HINGE, 316 S.S., UNPOLISHED	1
STAINLESS STEEL UNISTRUT & HARDWARE	LOT
MISC., 1/2" SEALTITE, CONNECTORS AND CABLE	LOT
ITEM NO.6	
<b><u>WASTEWATER PRESSURE TRANSDUCER</u></b>	
WIKA 52824199 IS-3 INTRINSICALLY SAFE PRESSURE TRANSDUCER WITH THE FOLLOWING:	1
A) POWER: 24 VDC	
B) RANGE: 0-100 PSI	
C) PROCESS CONNECTION: 1/2" MNPT	
D) OUTPUT: 4-20 maDC	
E) POWER CONNECTOR: 4-PIN L-PLUG	
CROUSE-HINDS GUAT16 CONDULET BOX	1
SQD SSP030SSE10HC 4/20MA PIPE STYLE SURGE ARRESTER	1
ITEM NO.7	
<b><u>POTABLE WATER PRESSURE TRANSDUCER</u></b>	
WIKA 52374301 S-20 PRESSURE TRANSDUCER WITH THE FOLLOWING:	1
A) POWER: 24 VDC	
B) RANGE: 0-100 PSI	
C) PROCESS CONNECTION: 1/2" MNPT	
D) OUTPUT: 4-20 maDC	
E) POWER CONNECTOR: 4-PIN L-PLUG	
CROUSE-HINDS GUAT16 CONDULET BOX	1
SQD SSP030SSE10HC 4/20MA PIPE STYLE SURGE ARRESTER	1
ITEM NO.8	
<b><u>MANUAL TRANSFER SWITCH</u></b>	
MANUAL TRANSFER SWITCH WITH THE FOLLOWING:	1

- A) RATING: 480VAC, 600A, 3P
- B) ENCLOSURE: 316 SST. TYPE 3R
- C) GEN. RECEPT.: C-R AR2041-S22 W/ AJ67 45° ANGLE ADAPTER

ITEM NO.9

**PROJECT SERVICES**

ENGINEERING	LOT
SUBMITTALS	LOT
START-UP	LOT
TRAINING	LOT
O & M MANUALS	LOT
WARRANTY, 1-YEAR	LOT

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**SUMMARY**

ITEMS NO.1 THRU NO.9

**WARRANTY:** ALL WARRANTIES SHALL EXPIRE ONE (1) YEAR FROM DATE OF START-UP FROM SELLER TO BUYER UNLESS SPECIALLY INDICATED OTHERWISE AND WILL BE NULL AND VOID UNLESS MATERIALS ARE STORED UNDER PROPER CONDITIONS DETERMINED BY C.C. CONTROL CORP.



## EBARA Pumps Americas Corporation

Corporate Headquarters  
1651 Cedar Line Drive, Rock Hill, South Carolina 29730 USA  
Tel: (803) 327-5005 Fax: (803) 327-5097 [www.pumpsebara.com](http://www.pumpsebara.com)

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July 14, 2022

Mr. Bobby Clayton  
Wastewater Pumping Manager  
City of Pompano Beach-Public Works Department  
1201 Northeast 3<sup>rd</sup> Avenue  
Pompano Beach, FL 33060

RE: Ebara Pump Distributor & Pricing Ebara Sole Source Representative

Dear Mr. Clayton;

Tom Evans Environmental is the only authorized municipal distributor for all Ebara Pumps Americas Corporation products and parts in City of Pompano Beach, Florida. Please contact their office for information on price and availability or technical assistance with Ebara products. You may contact them by phone, fax, email or US mail at the address provided below:

Tom Evans Environmental, Inc.  
3200 Flightline Drive, Suite 302  
Lakeland, Florida 33811  
305-588-6761 m  
[www.tomevans.com](http://www.tomevans.com)  
Mr. Tom Evans  
[te@tomevans.com](mailto:te@tomevans.com)

No other representative can sell products, repair/replacement parts, maintenance, repair/replacement services, field services and technical support for Ebara Pumps Americas Corporation.

Please do not hesitate to call my office if you have any questions or need further assistance.

Sincerely,

**Michael J. Kahren**  
**Southeast Regional Sales Manager**  
**EBARA Pumps Americas Corporation**  
Standard Pump Division  
1651 Cedar Line Dr  
Rock Hill, SC 29730  
Main: (803) 327-5005  
Direct: (803) 325-9678  
[mkahren@pumpsebara.com](mailto:mkahren@pumpsebara.com)

cc: File



"To Whom It May Concern"

Dear Sir / Madam:

Subject: Authorized Distribution of Pioneer Products to the Water and Waste Water Industry.

Pioneer Pump Company operates though our belief in "Performance through innovation -Manufacturing superior hydraulic designs, ductile iron housings, special alloys, superior engineering designs and excellent sales support.

Our marketing strategy is to establish a network of authorized distributorships trained to apply equipment unique to specific markets. Some examples of these market areas are construction, petroleum, industrial, and municipal water/wastewater. Our representatives are specialists and very knowledgeable within their market area and dedicated to helping you select and maintain the proper equipment for your application.

Please be advised Tom Evans Environmental, Inc is our sole authorized distributor for Municipal Water and Wastewater Pumps and parts in the State of Florida, excluding the panhandle counties of: Escambia, Santa Rosa, Okaloosa, Walton, Holmes, Jackson, Washington, Bay, Calhoun, Liberty and Gulf.

Tom Evans Environmental is responsible for supplying all Pioneer pumps and parts used in municipal water, wastewater lift stations or treatment plants, including individual units installed in municipal collection systems.

Tom Evans Environmental Inc.  
3200 Flightline Drive, Suite 302  
Lakeland, Florida 33811

Sincerely,

Michael Retter

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