

Client: Village of Oak Park
Project Name: Village of Oak Park Public Works Center
 Domestic Water Booster Pump Replacement

Proposal No.: 23-138
Bid Due Date: Friday, December 15th, 2023 @ 11:00 a.m.
Project Manager: Vic Sabaliauskas
 Building Maintenance Superintendent

BID TAB WORKSHEET

Contractor	Total Bid	EEO	Bid
		M/W/DBE	Bond
Omni-Pump Repairs, Inc.	\$54,975.00	WBE	X
Airy's, Inc.	\$58,626.00	DBE	X



OMNI-PUMP REPAIRS, INC.

THE PUMP PEOPLE
PUMP & BLOWER REPAIR

9224 Chestnut Ave., Franklin Park, Illinois 60131

Tel: (847) 451-0000

Fax: (847) 451-0119

December 14, 2023

Village of Oak Park
Department of Public Works
201 South Blvd.
Oak Park, IL 60302

Attn: Mr. Vic Sabaliauskas

Re: #23-138 Domestic Water Booster Pump Replacement

Dear Mr. Vic Sabaliauskas,

We appreciate the opportunity to bid this project. We are proposing to Engineer, Fabricate and Install a FURA Duplex Domestic Water Booster System. We have provided submittals on the pumps, controller and cushion tank. We will include the following:

- * (2) Close Coupled End Suction pump and motor assemblies. Will be sized to the existing requirement. Curves and information are provided in the submittal package
- * (1) NEMA 1 Duplex variable frequency drive controller. Will have one dedicated vfd per pump (a total of two vfd's). Submittal of controller is provided. Will be designed to operate with pressure transducer (included)
- * (1) 120 Gallon Hydronix cushion tank. Submittal provided
- * Suction and discharge header will be constructed of stainless steel
- * (4) check valves will be included (1 on suction and 1 on discharge of each pump)
- * (4) isolation valves will be included (1 on suction and 1 on discharge of each pump)
- * (2) thermal reliefs (1 per pump)
- * (1) steel skid frame

The system will be prefabricated as a skid and will be designed to mount to existing suction and discharge lines for building. The system will be anchored to the existing concrete pad.

The entire system will have a limited warranty on materials and workmanship for a period of twenty four (24) months from the date of installation.

Sincerely,

Pete Moraitis

Grundfos Series LC - End Suction Centrifugal Pump, Close Coupled

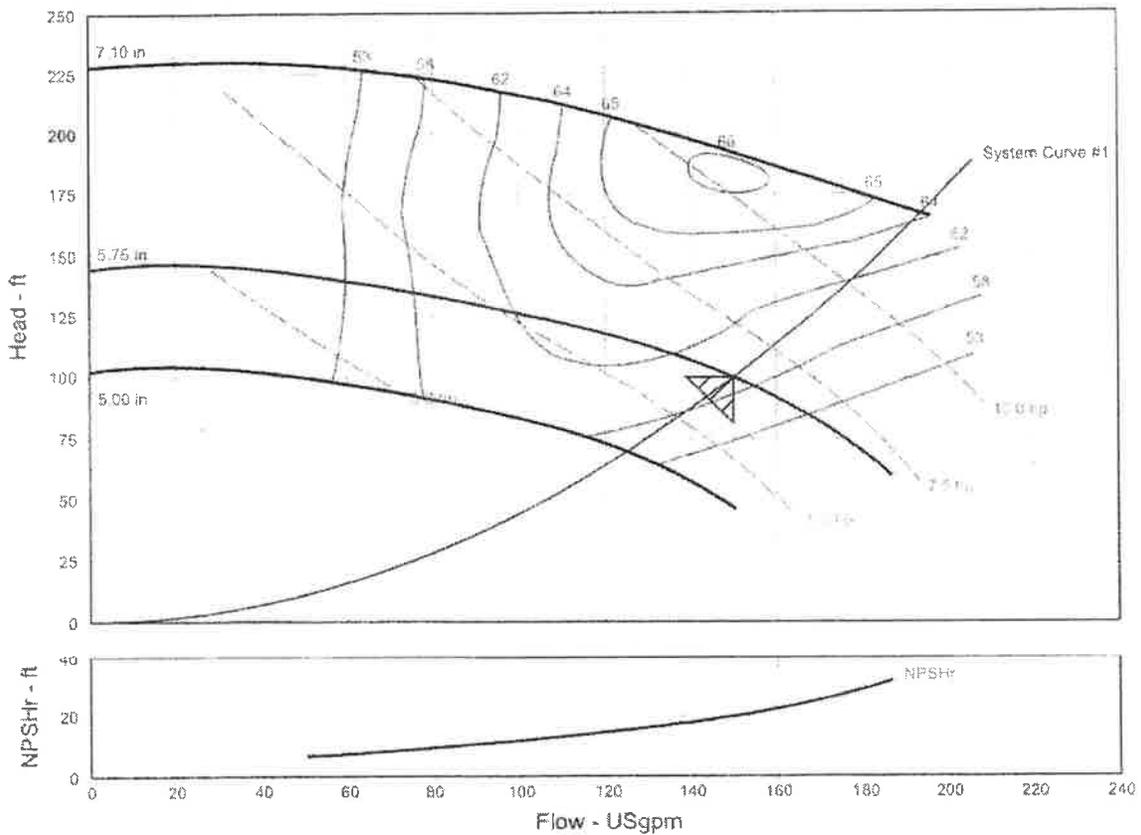
QUOTE NUMBER / ID	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE	SERVICE	DATE
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



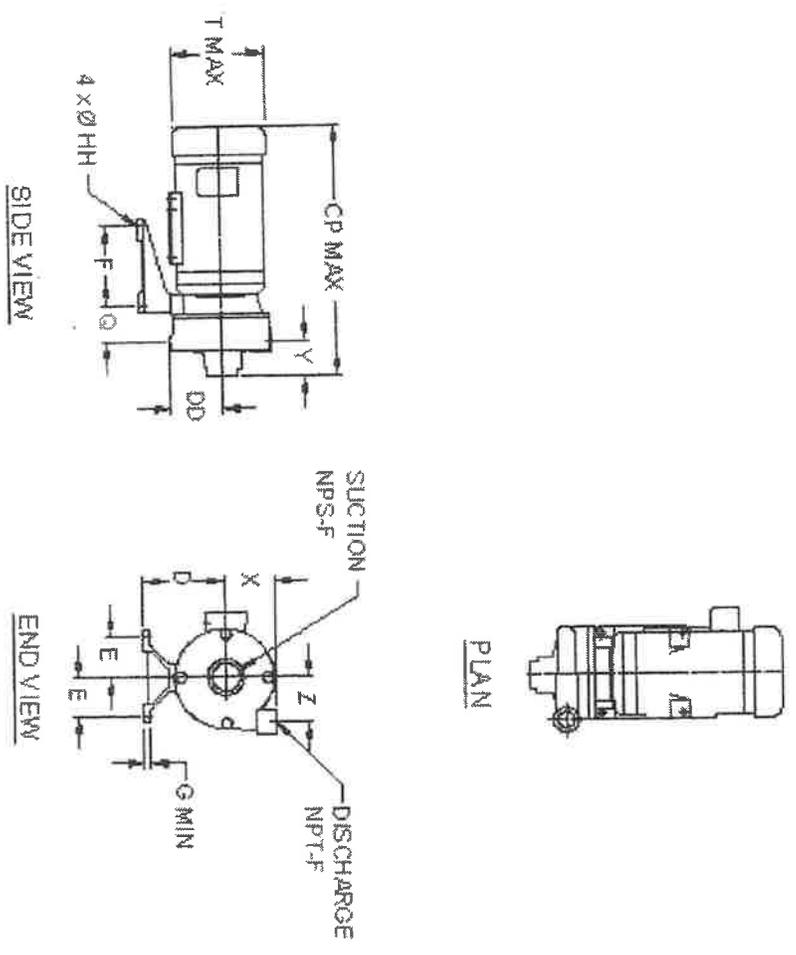
LC 12709
3530 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	150.0 USgpm	Impeller Diameter	5.75 in	Motor HP	7.5 HP
Head	100.0 ft	Max. Imp. Dia.	7.10 in	BHP	6.39 HP
Liquid	Cold Water	Min. Imp. Dia.	5.00 in	Enclosure	ODP
Temperature	68.00 deg F	Efficiency	59.38 %	Voltage	230/460 V
NPSHr	19.89 ft	Suction	1.5 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	1.25 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.87	Frame Size	184JM
		ER (CL)	13		



Grundfos Series LC - End Suction Centrifugal Pump, Close Coupled



Units	Frame	Suct	Disch	CP	D	DD	E	F	G	HH	Q	T	X	X	Z	Weight
inches	104	1.5	1.25	26.00	1.50	4.25	3.75	7.50	0.63	0.44	3.25	6.00	4.50	3.31	4.31	TBD

Pump			
Qty	Description	Average Unit Price	Extended Price
	Testing & Documentation		
	Testing		
	Test Level: No test		
	Documentation		
	Leadtime: 12 wks		
	Estimated Weights ea: 115 lbs		
	Accessories		
	Accessories		
	Gauges		
	No Gauges		
	Gauge Accessories		
	No Gauge Accessory		
	Motor Bracket: Motor bracket provided		
	Motor Bracket Matenal: Cast Iron, ASTM-A48, CL 30		

Pump Performance Datasheet

Customer	:		Quote Number / ID	:	
Customer ref. / PO	:		Model	:	12709 LC
Tag Number	:	001	Stages	:	1
Service	:		Based on curve number	:	RC2275-1-SS Rev 1
Quantity	:	1	Basic model number	:	-
			Date last saved	:	12/14/2023 1:31 PM

Operating Conditions		Liquid	
Flow, rated	: 150.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 100.0 ft	Additional liquid description	
Differential head / pressure, rated (actual)	: 100.3 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
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a

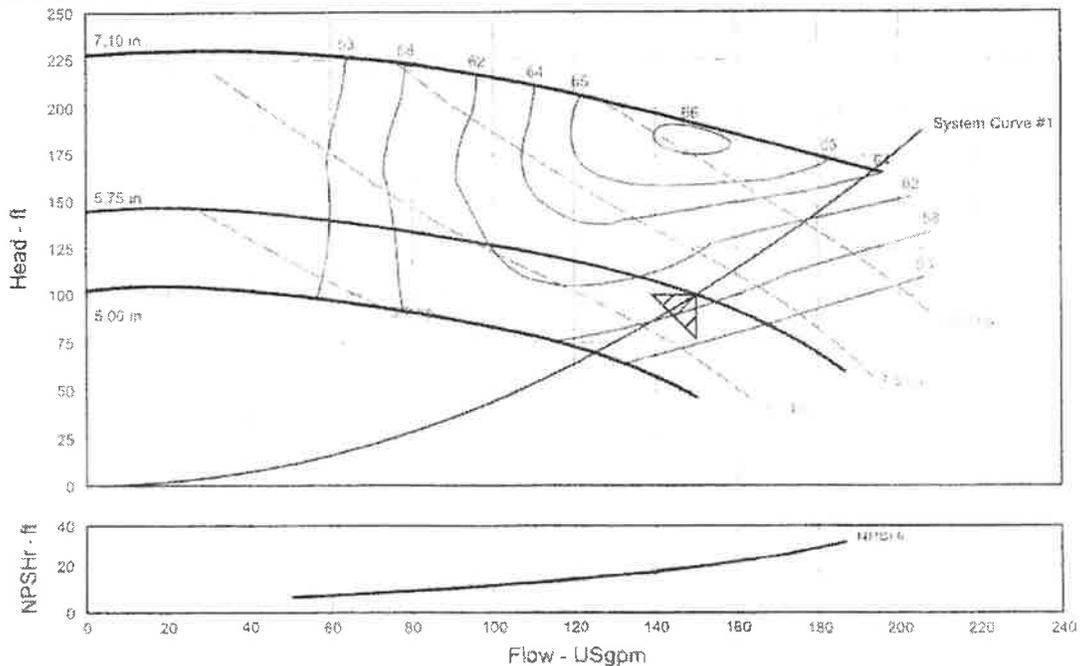
Performance	
Speed, rated	: 3530 rpm
Impeller diameter, rated	: 5.75 in
Impeller diameter, maximum	: 7.10 in
Impeller diameter, minimum	: 5.00 in
Efficiency	: 59.38 %
NPSH required / margin required	: 19.89 / 0.00 ft
nq (imp. eye flow) / S (imp. eye flow)	: 16 / 89 Metric units
MCSF	: 62.85 USgpm
Head, maximum, rated diameter	: 146.8 ft
Head rise to shutoff	: 44.36 %
Flow, best eff. point	: 118.2 USgpm
Flow ratio, rated / BEP	: 126.89 %
Diameter ratio (rated / max)	: 80.99 %
Head ratio (rated dia / max dia)	: 52.21 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Material	
Material selected	: Cast iron

Pressure Data	
Maximum working pressure	: 63.52 psi.g
Maximum allowable working pressure	: 175.0 psi.g
Maximum allowable suction pressure	: 175.0 psi.g
Hydrostatic test pressure	: 263.0 psi.g

Driver & Power Data (@Max density)	
Motor sizing specification	: Max power (non-overloading)
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 3.79 hp
Rated power (based on duty point)	: 6.39 hp
Max power (non-overloading)	: 7.10 hp
Nameplate motor rating	: 7.50 hp / 5.59 kW

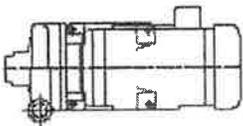
Energy Indexes	
PEI (CL)	: 0.87
ER (CL)	: 13



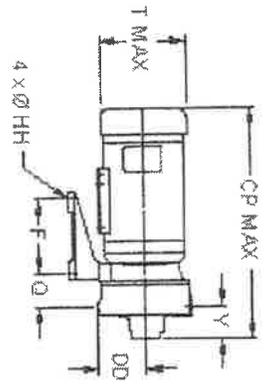
Construction Datasheet			
Project name	: Default	Tag Number	: 001
Consulting engineer	:	Service	:
Customer	:	Model	: 12709 LC
Customer ref. / PO	:	Quantity	: 1
Quote Number / ID	:	Quoted By (Sales Office)	:
Date last saved	: 12/14/2023 1:31 PM	Quoted By (Sales Engineer)	:
Nozzle	Size (in.)	Nozzle Configuration	Pos'n
Suction	1.5	NPS	End
Discharge	1.25	NPS	Top
Orientation / Configuration	: Horizontal		
Rotation	: Clockwise		
Wear Ring Configuration	: Single - Case		
Discharge Elbow Size	: -		
Subplate	: -		
Sump Depth (feet)	: -		
Bearing Frame	: -		
Bearing Frame Foot	: -		
Bearing Type (Radial/Thrust)	: In motor		
Bearing Lubrication	: -		
Thrust Bearing	: -		
Intermediate Bearing	: -		
Lower Bearing	: -		
Bearing Housing Accessories	: -		
PACO Construction Code	: 10-12709-130008-1741P		
Baseplate	: Not Applicable		
Drip Pan	: -		
Coupling	: -		
Guard	: Not Applicable		
Sealing Method	: Single Seal, Type 21S		
Seal Material	: Buna Carbon Ceramic SS-Spring and Hardware		
Packing Gland	: -		
Lantern Ring	: -		
Recirculation Lines	: None		
Pump	: 25.00 lb		
Baseplate	: -		
Driver	: 90.00 lb		
Estimated Shipping gross weight	: 115.0 lb		
Manufacturer	: Baldor		
Frame Size	: 184JM		
Power	: 7.50 hp		
RPM	: 3600 rpm		
Enclosure	: ODP		
Operating Power Supply	: 230/460/3/60		
Efficiency	: Premium		
Service factor	: 1.15		
Motor Application	: General Purpose		
Motor Options/Accessories	: -		
Cord Length (feet)	: -		
Case	: Cast Iron, ASTM A48 - Class 30		
Motor Bracket	: Cast Iron, ASTM-A48, CL 30		
Impeller	: Stainless Steel, AISI-304 (H304)		
Impeller Cap Screw and Washer	: Stainless Steel, AISI-303		
Impeller Key	: Stainless Steel, AISI 316		
Case wear ring	: Tin Bronze, ASTM B584-90500 (B18)		
Impeller wear ring	: -		
Pump Shaft	: Steel, AISI-1040		
Sieve	: Bronze, J11932, C89835		
Line Shaft	: -		
Column	: -		
Discharge Pipe	: -		
Discharge Elbow	: -		
Suction Elbow	: -		
Subplate	: -		
Hardware	: Steel, Grade 5		
O Rings	: Buna N		
Pump Coatings	: Standard Manufacturer's Paint		

General Arrangement

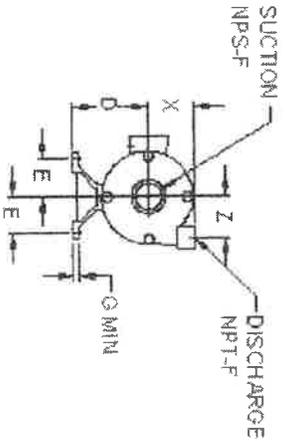
Project name	: Default	Tag Number	: 001
Consulting engineer	:	Service	:
Customer	:	Model	: 12709 LC
Customer ref. / PO	:	Quantity of pumps	: 1
Quote Number / ID	:	Quoted By (Sales Office)	:
Date last saved	: 12/14/2023 1:31 PM	Quoted By (Sales Engineer)	:



PLAN



SIDE VIEW



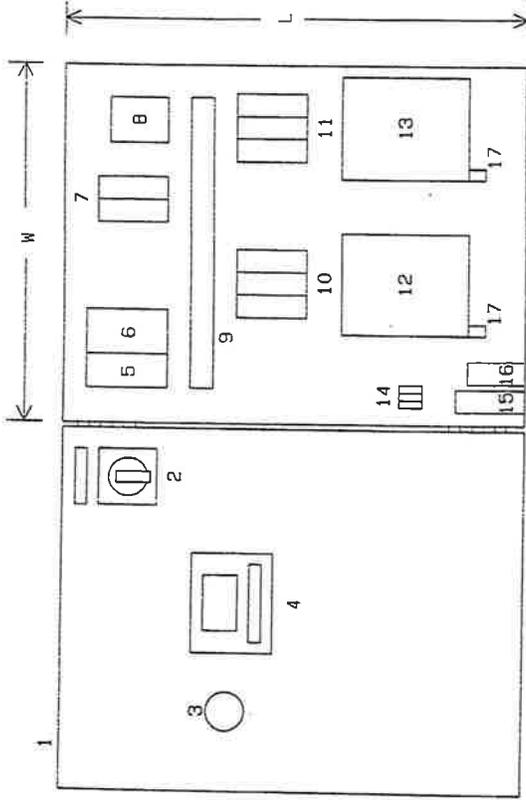
END VIEW

NOT FOR CONSTRUCTION, UNLESS CERTIFIED AND REFERENCED ON ORDER

Units	Frame	Suct(In)	Disch(In)	CP	D	DD	E	F	G	HH	Q	T	X	Y	Z	Weight ea
Inches	184JM	1.5	1.25	26.00	7.50	4.75	3.75	7.50	0.63	0.44	3.25	8.00	4.50	3.31	4.31	115.0

Conditions of Service		HP: 7.5	Encl: ODP	Phase: 3	Efficiency: Premium
Flow: 150.0 USgpm	Fluid: Cold Water	RPM: 3530 rpm	Hz: 60	Voltage: 230/480	S.F.: 1.15
TDH: 100.0 ft	Temp: 68.00 deg F				

1. CONTROL PANEL ENCLOSURE, NEMA 1.
2. MAIN DISCONNECT SWITCH HANDLE.
3. ALARM SIREN- OPTIONAL.
4. OPERATOR INTERFACE SCREEN.
5. LOW VOLTAGE 24VDC POWER SUPPLY (LPS).
6. PROGRAMMABLE LOGIC CONTROLLER (PLC).
7. LOW VOLTAGE POWER SUPPLY FUSE BLOCK, (FU3).
8. MAIN DISCONNECT SWITCH (DS).
9. WIRE DUCT.
10. PUMP 1 MOTOR FUSE BLOCK (FU1).
11. PUMP 2 MOTOR FUSE BLOCK (FU2).
12. PUMP 1 VARIABLE FREQUENCY DRIVE (VFD1).
13. PUMP 2 VARIABLE FREQUENCY DRIVE (VFD2).
14. TERMINAL BLOCK (TB).
15. SYSTEM PRESSURE TRANSMITTER (PT) - MAY BE REMOTE.
16. LOW SUCTION SWITCH (PS) - MAY BE REMOTE.
17. PANEL GROUNDING BUSS.



CABINET DIMENSIONS:

- 5 HP OR LESS- L=20", W=16", AND DEPTH=8"
- 7.5 TO 10 HP- L=24", W=20", AND DEPTH=8"

SHEET 1 OF 3

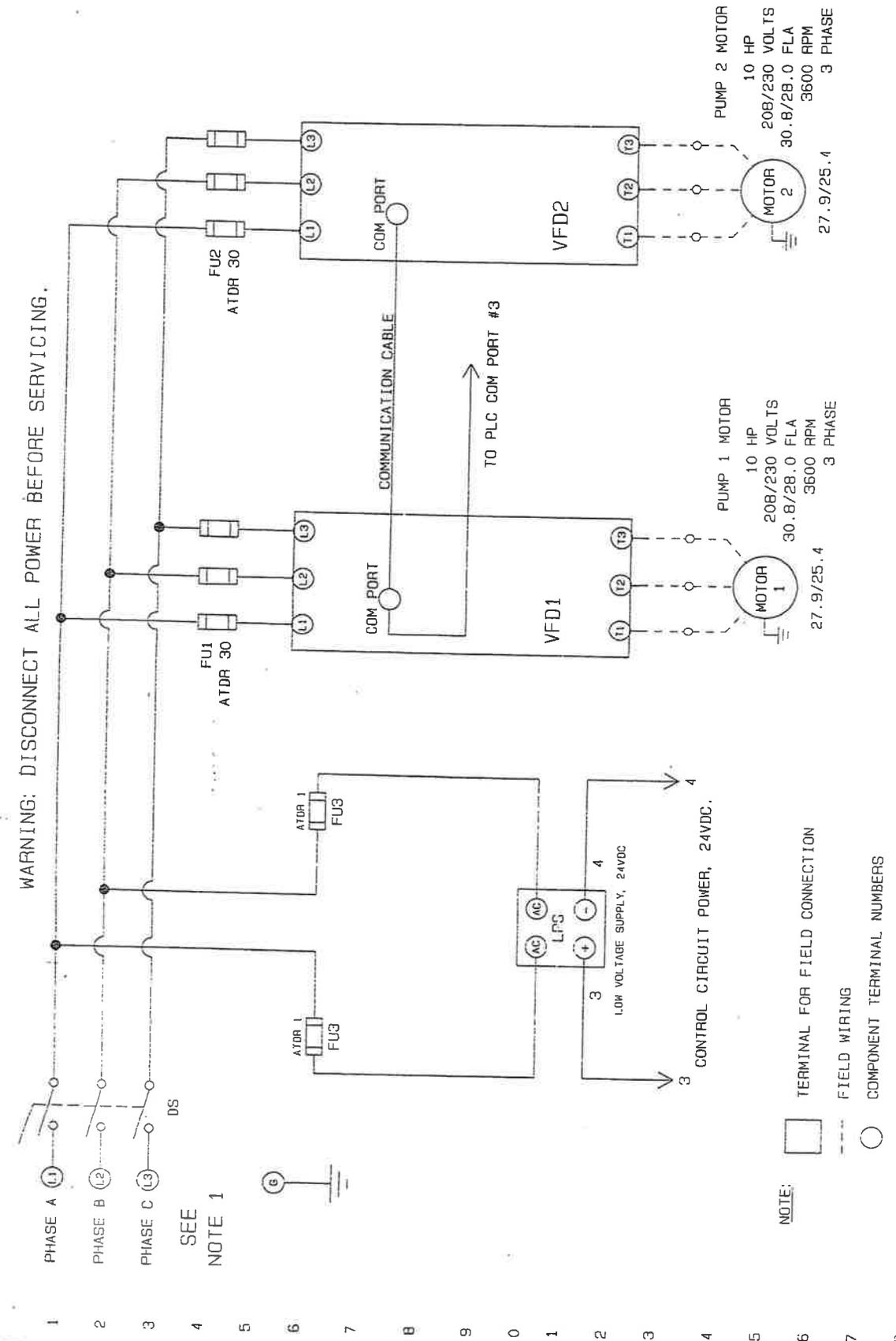
OMNI-PUMP REPAIRS, INC.

SCALE: NONE
 DATE: 3/28/17
 DESIGNED & MANUFACTURED BY:
 PLATT IND. CONTROL
 ADDISON, IL (630) 633-4388
 DRAWN BY: G. P.
 REVISED: 0

DUPLEX VFD PUMP CONTROL

CONTROL PANEL MECHANICAL DRAWING
 DRAWING NUMBER:
 GD-511M

WARNING: DISCONNECT ALL POWER BEFORE SERVICING.



SEE
NOTE 1

NOTE: TERMINAL FOR FIELD CONNECTION
 FIELD WIRING
 COMPONENT TERMINAL NUMBERS

NOTE 1: SUPPLY 208 OR 230 VAC/3 PHASE, 60 HZ, (DEPENDENT ON MOTOR RATED VOLTAGE) BETWEEN L1, L2, AND L3. FOR SINGLE PHASE INPUT (3HP OR LESS ONLY) CONNECT LINE BETWEEN L1 AND L2.

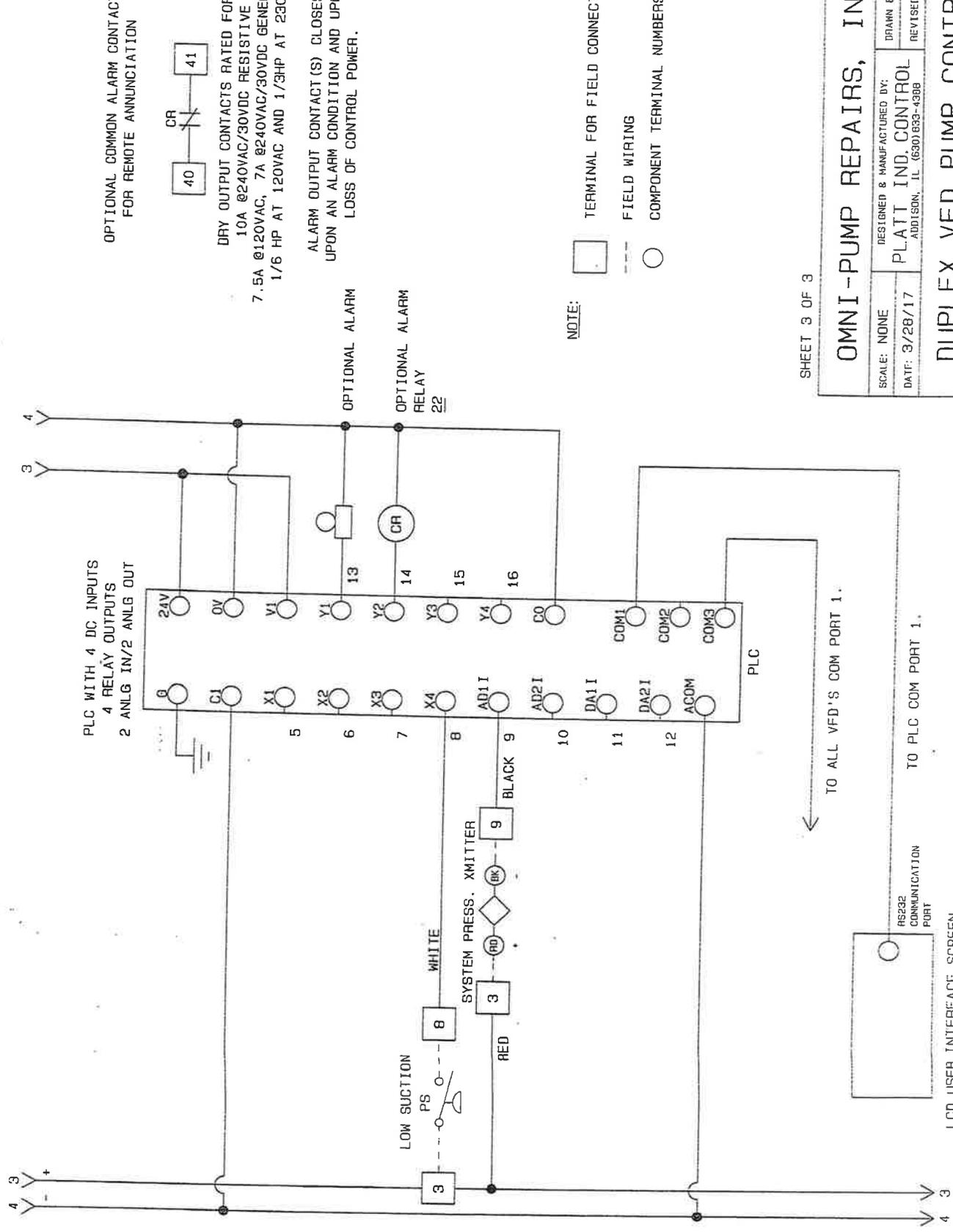
SHEET 2 OF 3

OMNI-PUMP REPAIRS, INC.

SCALE: NONE	DESIGNED & MANUFACTURED BY: PLATT IND CONTROL	DRAWN BY: G.P.
DATE: 3/28/17	ADDRESS: IL 65301653-45881	REVISED: 0

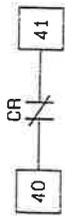
DUPLEX VFD PUMP CONTROL

CONTROL PANEL ELECTRICAL DRAWING
 DRAWING NUMBER: GD-511M



PLC WITH 4 DC INPUTS
4 RELAY OUTPUTS
2 ANLG IN/2 ANLG OUT

OPTIONAL COMMON ALARM CONTACT
FOR REMOTE ANNUNCIATION



OPTIONAL ALARM
OPTIONAL ALARM
RELAY 22

ALARM OUTPUT CONTACT(S) CLOSES
UPON AN ALARM CONDITION AND UPON
LOSS OF CONTROL POWER.

LOW SUCTION
PS

WHITE
SYSTEM PRESS. XMITTER

NOTE:
 TERMINAL FOR FIELD CONNECTION
 FIELD WIRING
 COMPONENT TERMINAL NUMBERS

SHEET 3 OF 3

OMNI-PUMP REPAIRS, INC.		DRAWN BY: G.P.
SCALE: NONE	DESIGNED & MANUFACTURED BY: PLATT IND. CONTROL	REVISED: 0
DATE: 3/28/17	ADDRESS, IL (630) 633-4308	
DUPLEX VFD PUMP CONTROL		
CONTROL PANEL ELECTRICAL DRAWING		DRAWING NUMBER: GD-511M

TO ALL VFD'S COM PORT 1.

TO PLC COM PORT 1.

RS232C
COMMUNICATION
PORT

LCD USER INTERFACE SCREEN



PLATT INDUSTRIAL CONTROL, INC.

October 18, 2012

VFD Booster Panel Start-up Instructions

1. Turn all pump OFF/AUTO switches to OFF. For panels without physical switches, first complete step 2, then press the screen "F" keys from the MAIN screen to toggle OFF/AUTO position of pumps (for example: press F1 for pump 1). If the screen is not lit, check that the control circuit disconnect inside the panel is switched "ON" (if supplied) or that the control circuit transformer is receiving power and the fuses are okay.
2. Turn on panel main disconnect switch(s). Drive screens should light up to indicate that they have power. If not, check that power is supplied to panel and drive motor fuses okay.
3. Set the *system pressure set point* to the pressure the system is designed to operate at. Do this by first pressing the MENU (F5) key. Then scroll one line down the menu and select the "System Pressure Set Point". The screen to change the pressure set point will now appear. Change the setting by using the RAISE or LOWER keys. Press the MENU key when finished to return to the menu.
4. All other screen settings are factory preset and usually do not need further adjustment. If settings need to be changed, press the "F1" key for at least 3 seconds to unlock the screen when prompted and adjust the required settings. Use the menu to navigate to these other settings.
5. Switch all PUMP- OFF/AUTO switches to AUTO (use "F" keys on screen if applicable). The system should now run automatically.

SCREEN NAVIGATION AND PROGRAMMING EXAMPLE -

Adjusting the low pressure alarm set point.

MAIN SCREEN

VFD1 38.2 Hz **ON** VFD2 0.0 Hz **Off**

Set Point 70.0 psi Pressure 70.4 psi

NO ALARMS

PUMP 1 SWITCH 57 TIME SHUT DOWN PUMP 2 SWITCH HELP MENU

F1 F2 F3 F4 F5

THE MAIN SCREEN IS READ ONLY. THE PUMP PRESSURE, SET POINT, PUMP VFD SPEED, ALARM STATUS, AND THE MINIMUM TIME FOR THE NEXT PUMP TO SHUT DOWN CAN BE READ HERE. FOR MORE OPTIONS PRESS THE F5 KEY TO GO TO THE MENU. FOR HELP PRESS F4.

Press the MENU key (F5) to go to the menu screen.

MENU SCREEN

1. Main
 2. Pressure Set Point
 3. Pressure Settings
 4. Control Settings
 5. Alarm Screen
 6. Alarm History
 7. Manual Speed Control
- ESC - UP DOWN ENT
- F1 F2 F3 F4 F5

THE MENU SCREEN LISTS THE SEVEN PRIMARY SCREENS- MAIN, PRESSURE SET POINT, PRESSURE SETTINGS, CONTROL SETTINGS, ALARM SCREEN, ALARM HISTORY AND MANUAL SPEED CONTROL. TO SELECT A SCREEN, USE THE UP AND DOWN KEYS (F3 & F4) TO SCROLL THE CURSOR TO THE DESIRED SCREEN AND THEN PRESS THE F5 KEY. THE F2 KEY IS NOT USED. PRESS THE F1 KEY TO RETURN TO THE PREVIOUS SCREEN.

Press the up or down keys (F3/F4) to select Pressure Settings then press enter key (F5).

PRESSURE SETTINGS SCREEN

- F1- Low Pressure Alarm
 - F2- High Pressure Alarm
 - F3- Low Pressure Start
 - F4- PID Settings
- These parameters are factory set and generally do not need further adjustment. Adjust only if needed of to optimize system.
- F1 F2 F3 F4 F5

THE PRESSURE SETTINGS SCREEN IS A SUB MENU. TO SELECT THE PRESSURE SETTINGS PRESS F1 FOR THE LOW PRESSURE ALARM, PRESS F2 FOR THE HIGH PRESSURE ALARM, PRESS F3 FOR THE LOW PRESSURE START, AND PRESS F4 FOR THE PID. PRESS F5 KEY TO RETURN TO THE MAIN MENU.

Press F1 key to select the Low Pressure Alarm screen.

LOW PRESSURE ALARM SCREEN

Low Pressure Alarm 40 psi

On Delay Time 60 sec

CHANGE ALARM RAISE LOWER ESC

F1 F2 F3 F4 F5

THIS SCREEN IS SELECTED FROM LAST SCREEN BY PRESSING THE F1 KEY. CHANGE THE ALARM VALUE BY PRESSING THE F2 KEY. WHEN THE CURSOR FLASHES BESIDE THE VALUE, USE THE F3 & F4 KEYS TO RAISE OR LOWER THE VALUE. TO CHANGE THE TIME DELAY PRESS THE F2 KEY AGAIN SO THAT THE CURSOR IS AT THE VALUE OF THE ALARM DELAY TIME. THEN PRESS THE F3 & F4 KEYS TO RAISE OR LOWER THE VALUE. PRESS F5 TO GO BACK TO THE PREVIOUS SCREEN. PRESS F1 FOR HELP.

To return to the MENU, press escape key (F5) and then menu key (F5). Before changing data a password may be required. To unlock the screen, press and hold the F1 key for 3-5 seconds.

ALARM SCREEN

NO ALARMS PRESENT

HELP ALARM SILENCE ALARM RESET ESC

F1 F2 F3 F4 F5

THE ALARM SCREEN IS USED TO DISPLAY ALARM MESSAGES. THE ALARM HORN AND/OR STROBE CAN BE SILENCED HERE BY PRESSING THE F3 KEY, AND ALARMS THAT ARE NO LONGER ACTIVE CAN BE RESET BY PRESSING THE F4 KEY. IF MORE THAN ONE ALARM IS PRESENT, PRESS THE F4 KEY TO SCROLL THROUGH THE OTHER ALARMS. PRESS THE F5 KEY TO RETURN TO THE PREVIOUS SCREEN. FOR HELP PRESS F1.

SHEET 1 OF 2

HMI SCREEN INSTRUCTIONS

SCALE: NONE

DATE: 10/3/16

DESIGNED & MANUFACTURED BY: PLATT IND. CONTROL

ADDISON, IL (630) 893-4388

ORIGIN BY: G.P.

REVISED: 6

VFD PUMP CONTROL

CONTROL PANEL OPERATOR DRAWING NUMBER: GD-511SC

INTERFACE INSTRUCTIONS

MANUAL SPEED CONTROL SCREEN

VFD1	VFD2	PRESSURE
38 HZ	0 HZ	70.1 PSI
MAN AUTO	MAN AUTO	
PUMP 1		
HELP	SELECT	RAISE LOWER MENU
F1	F2	F3 F4 F5

THIS SCREEN IS USED TO MANUALLY ADJUST THE SPEED OF THE PUMP(S). PRESS THE F2 KEY TO PLACE THE SELECTED PUMP IN MANUAL MODE. IN MANUAL MODE, THE SPEED CAN BE RAISED OR LOWERED BY PRESSING THE F3 AND F4 KEYS. SYSTEM IS NORMALLY RUN IN AUTO MODE. MANUAL MODE IS USED ONLY FOR TESTING OR EMERGENCY PURPOSES. TO RETURN TO THE MENU, PRESS THE F5 KEY. PRESS F1 FOR HELP.

USER ADJUSTABLE SCREEN PARAMETERS.

1. **PUMP PRESSURE SET POINT**- The pressure in PSI that the pump will try to maintain.
2. **LOW PRESSURE ALARM**- When pump discharge pressure drops at or below this point for a period equal to this parameter's on delay time, the alarm will activate. All pumps will shutdown on this alarm and will require a manual reset to restart.
3. **HIGH PRESSURE ALARM**- When pump discharge pressure rises to or exceeds this setting for a period equal to the on delay time, all pumps will shutdown on alarm. The pumps will automatically restart once the pressure drops to the pressure set point.
4. **LOW PRESSURE START**- When pump discharge pressure drops at or below this point, while all pumps are off, for a period equal to this parameter's on delay time, the lead pump will be called to start.
5. **PROPORTIONAL GAIN**- This parameter is used to adjust how well the process variable matches the set point.
6. **INTEGRAL GAIN**- This parameter is used to adjust how well the process variable matches the set point.
7. **LEAD PUMP**- The lead pump is the first pump to start and the last to stop.
8. **SEQUENCING MODE**- Two modes, ROTATE or FIXED. When set to ROTATE, lead pump will automatically rotate. When set to FIXED lead pump will not change. Normally set to ROTATE.
9. **ROTATION TYPE**- Three types, TIME (rotates every number of days set at time of day set), CYCLE (rotates every time lead pump stops) or BOTH (both TIME & CYCLE).
10. **ROTATION RATE**- Number of days before rotation (applies only when ROTATION TYPE type set to TIME or BOTH).
11. **ROT. TIME OF DAY**- The hour of day when rotation occurs (only when ROTATION TYPE type set to TIME or BOTH).
12. **PUMP MINIMUM SPEED**- The pump speed will not fall below this speed during normal operation. When the pump speed drops to the min. speed for a period equal to this parameter's off delay time, the pump will shutdown.
13. **BOOST**- Before stopping the lead pump, the system is boosted this amount above the set point.
14. **PRESSURE SENSOR RANGE**- This is the scaled range of the sensor. If 0-200 psi sensor, set to 200.
15. **PRESSURE SENSOR CALIBRATION**- This is setting is used to recalibrate the pressure sensor due to error in output reading. Use the F3/F4 keys to set the displayed pressure equal to a gage on the same line that is known to be accurate. When set to display the correct pressure, the OFFSET equals the amount of sensor error.
16. **PUMP RUN TIME**- The pump run time hour meter(s) can be reset by selecting the desired run time and holding the "lower" key for 3 seconds.
17. **DATE AND TIME**- The system clock (both hours and minutes) can be adjusted here if required.

SYSTEM ALARMS

(ALL ALARMS WILL SHUTDOWN THE PUMPS AFFECTED EXCEPT FOR PLC BATTERY LOW.)

1. PLC BATTERY LOW- replace battery on top of PLC (warning only).
2. PRESSURE SENSOR FAILED- no signal from sensor (auto reset).
3. VFD #1 FAILED- check drive fault code with drive manual (auto reset).
4. VFD #2 FAILED- check drive fault code with drive manual (auto reset).
5. VFD #1 LOST COMMUNICATION- check drive com cable connection (auto reset).
6. VFD #2 LOST COMMUNICATION- check drive com cable connection (auto reset).
7. LOW SUCTION ALARM- pump suction pressure dropped to 7 psi (auto reset).
8. HIGH PRESSURE ALARM- pressure exceeded high press. alarm (auto reset).
9. LOW PRESSURE ALARM- press. dropped below low press. alarm (manual reset).
10. PUMP 1 FAIL- check VFD1 & pump 1 for proper operation (auto reset).
11. PUMP 2 FAIL- check VFD2 & pump 2 for proper operation (auto reset).

NOTE:

THESE SCREENS ARE PASSWORD PROTECTED. BEFORE CHANGING DATA THE OPERATOR WILL BE PROMPTED TO ENTER THE PASSWORD. PRESS AND HOLD THE F1 KEY TO UNLOCK THE SCREEN (APPROX. 3 SECONDS). THE SCREEN WILL RELOCK AFTER 5 MINUTES OF KEY PAD INACTIVITY.

MOST SCREENS HAVE A "HELP" BUTTON (TYPICALLY F1 KEY) WHICH CAN BE PRESSED TO REACH THE HELP WINDOW FOR THAT PARTICULAR SCREEN. THIS WINDOW PROVIDES ADDITIONAL INFORMATION ON HOW TO USE AND UNDERSTAND THE SCREEN DATA.

SHEET 2 OF 2

HMI SCREEN INSTRUCTIONS

SCALE: NONE	DESIGNED & MANUFACTURED BY:	DRAWN BY: G.P.
DATE: 10/3/16	PLATT IND. CONTROL	REVISED: 6
	ADDISON, TX (530)833-4388	

VFD PUMP CONTROL

CONTROL PANEL OPERATOR DRAWING NUMBER: GD-511SC
INTERFACE INSTRUCTIONS

Platt Industrial Control, Inc.

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**VFD Booster Pump Control
with LCD Operator Interface**
(for Simplex, Duplex, Triplex, & Quadrex)

Designed & Mfd. by

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October 3, 2016

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Overview:

The pump control panel is housed in a NEMA 1 (NEMA 12 or NEMA 4 optional) enclosure and is capable of controlling and automatically sequencing (when applicable) one (simplex), two (duplex), three (triplex) or four (quadrex) pumps. Each pump has its own variable frequency drive (VFD) which is used to adjust the pumps speed depending on the system flow and pressure requirements. The pump operation is controlled by a programmable logic controller (PLC) with digital input/output and analog input/output cards installed. Front door operator controls include one main disconnect for all pumps or a main disconnect for each pump, an LCD screen with tactile buttons to monitor system status and change system parameters and pump **OFF/AUTO** selector switches with **PUMP RUNNING** lights (optional). Controls inside the enclosure include the PLC, control circuit transformer (may or may not apply depending on line voltage), low voltage (24VDC) power supply, test equipment GFI outlet (optional), control relays and a terminal strip for remote wiring. Pump VFD's, pump disconnects, pump short circuit protection and optional VFD line reactors may be mounted inside the pump control panel or remotely mounted. Pump discharge pressure transducer(s), and the low suction pressure switch may be mounted on the side of the control panel cabinet or remotely.

Operation: (*settings written in this font style are screen adjustable parameters*)

The **CONTROL CIRCUIT OFF/ON** selector switch (optional) must be placed in the **ON** position for the pump panel to receive 120VAC control power to operate. All pump **OFF/AUTO** selector switches should be in the **AUTO** position, and all pump disconnect switches should be in the **ON** position. For panels without physical **OFF/AUTO** switches, the pump run mode is selected from the **MAIN** screen of the operator interface for each pump.

The pump control panel will automatically start and stop pumps depending on the required system water demand. Initially with all pumps off and standing by (all pumps in **AUTO** mode), and the system pressure above the **system pressure set point**, the **lead pump** will start after the pressure drops below the **low pressure start set point** (5 psi below **system pressure set point** typical). The **lead pump** will immediately accelerate past the **minimum speed setting** and arrive at the speed which brings the system pressure back up to the **system pressure set point**. As the demand increases, the speed of the **lead pump** will increase. If the demand increases beyond the capacity of the lead pump, it will reach full speed and the first lag pump (when applicable) will be called to start after a delay (delay time depends on factors such as how fast the pressure is dropping). The speed of the first lag pump will now be continuously adjusted to maintain the **system pressure set point** while the speed of the **lead pump** will be held at full speed. If the demand continues to increase beyond the capacity of the first lag pump, it will reach full speed, and the second lag pump (if applicable) will start and its speed throttled to maintain the **system pressure set point**. Remaining standby pumps (if applicable)

will come on line in like fashion if the demand continues to increase beyond the capacity of the second lag pump.

Pumps will shutdown in reverse order. For example, initially with the **lead pump** at full speed and the first lag pump above the **minimum speed setting** but below full speed, and all other pumps off (if applicable), as the demand drops below the need for the first lag pump, the speed of the first lag pump will decrease until it reaches the **minimum speed setting** where it will not drop any further. When the system pressure exceeds the **system pressure set point**, the speed of the **lead pump** will begin to drop from full speed while the speed of the first lag pump remains at the **minimum speed setting**. If the demand remains satisfied by the **lead pump**, the first lag pump will idle at the **minimum speed setting** and shutdown (1 minute typical). If the demand continues to decrease, the speed of the **lead pump** will also decrease as well. If there is no demand, the **lead pump** speed should drop to and remain at the **minimum speed setting**, without falling below it (if the lead pump speed continually drops below the **minimum speed**, the **minimum speed setting** is set too high). If the **lead pump** continues to idle at the **minimum speed setting** it will shutdown (1 minute typical). Once shutdown, the **lead pump** will switch to the next available pump so that this new **lead pump** will be ready to automatically start when the pressure drops below the **system pressure set point**. For systems with an optional flow sensor, the **lead pump** will typically shut down when the flow drops at or below the **low flow stop** setting for the **low flow stop off delay** period.

The running time hours for each pump can be viewed from the screen. All running hours are recorded to 1/10 hour precision. The running hours may be reset individually by following the screen prompts and pressing the “lower” key at the particular pump hour field for 3 seconds.

The pump sequence rotates (**sequencing mode** set to **rotate**) each time the **lead pump** shuts down (when **rotation type** is set to **cycle**) or at the **rotation time of day** after the number of days have elapsed per the **rotation rate** setting (when **rotation type** is set to **time**). For example, in a triplex panel with three pumps, the **lead pump** set to 1, **sequencing mode** set to **rotate**, **rotation type** set to **time**, and **rotation rate** set to 1, the sequence (order in which pumps are called to start as demand increases) would be 1, 2, 3 (day one); 2, 3, 1 (day two); 3, 1, 2 (day three) and then repeating 1, 2, 3 on day four and so on. If a pump fails or the OFF/AUTO switch is in the OFF position, the next available pump in the sequence will take its place. As a result, the programmed **lead pump** may not be the actual pump leading if it is failed or shut off. When the **pump sequence mode** is not set at **rotate** but at **fixed**, the **lead pump** will not change but will remain at the programmed setting.

Each pump can be switched to **manual mode** or **auto mode** at the manual speed screen. Once in **manual mode** the speed of the pump selected can be manually changed by increasing or decreasing the **pump speed** from the screen keys. This feature is typically used only during initial start-up and testing, but may be used in emergency if equipment failure has occurred. Note: use of the **manual mode** during emergency situations to maintain water pressure could result in equipment damage and is at the sole risk of the operator. Any equipment damage due to **manual mode** operation will not be covered in any warranties or guarantees, written or expressed.

System Parameters:

There are some system parameters that can be changed by the user via the operator interface. Depending on system characteristics, these parameters can be set to maximize performance; however, the factory default settings are usually adequate for most applications. Below is a brief description on how these parameters will affect system operation. Prior to changing system parameters, the screen may prompt the operator to "Enter password to change data." To unlock the screen, simply hold down the left most screen key (F1) for about 3 seconds. The screen automatically re-locks after five minutes of screen key inactivity.

System Pressure Set Point- This is the pressure the pump station will maintain. This is generally set so that the upper most floor will receive adequate water pressure. Caution: setting the pressure set point too high can lead to equipment damage. If increasing the pressure set point, verify that the new pressure does not exceed the maximum design pressure of the system.

Remote System Pressure (optional)- This is the pressure set point for a remote location, (upper most floor, etc.). This is set at start-up and generally should not be changed thereafter. This parameter is linked to the *system pressure set point* and cannot be set arbitrarily apart from.

Low System Pressure Alarm - This is the system pressure at which a low pressure alarm will be activated. This is usually set 20-60 psi below the *system pressure set point*. Factory default value = 30 psi below the *system pressure set point*.

Low System Pressure Alarm On Delay Time- This is the amount of time needed for the pressure to drop below the *low system pressure alarm* before an alarm occurs. This is usually set for 90-180 seconds. Factory default value = 120 seconds.

High System Pressure Alarm- This is the system pressure at which a high pressure alarm will be activated. This is usually set 20-30 psi above the system pressure set point. Factory default value = 20 psi above the *system pressure set point*.

High System Pressure Alarm On Delay Time- This is the amount of time needed for the pressure to rise above the *high system pressure alarm* before an alarm occurs. This is usually set for 5-20 seconds. Factory default value = 20 seconds.

Low Pressure Start- When all pumps are stopped and standing by to start, this is the pressure at which the system must drop to before the lead pump is started. This is usually set 2-5 psi below the *system pressure set point*. Factory default value = 5 psi below the *system pressure set point*.

Low Pressure Start Delay Time- This is the amount of time needed after the pressure drops below the **low pressure start** before the lead pump starts. This is usually set for 0-5 seconds. Factory default value = 0 seconds.

Pro. Gain- This is the proportional gain setting of the system pressure PI loop. This setting affects how well the pump control is able to maintain the system pressure at or near the set point. This parameter is set at start-up and normally will not need further adjusting. Increasing this gain increases its effect. Only personnel experienced with adjusting PI loops should attempt to tune this setting. Factory default value = 20.

Int. Gain- This is the integral gain setting of the system pressure PI loop. This setting affects how well the pump control is able to maintain the system pressure at or near the set point. This parameter is set at start-up and normally will not need further adjusting. Increasing this gain increases its effect. Only personnel experienced with adjusting PI loops should attempt to tune this setting. Factory default value = 20.

Lead Pump- The lead pump can be set manually here. If the **pump sequence mode** is set to **fixed**, the **lead pump** and this setting here will not change, but if set to **rotate**, the lead pump and this setting will automatically change every 24 hours, or each time the lead pump shuts down.

Pump Sequence Mode- This is used to set whether the pumps rotate daily or not. Set this parameter to **rotate** to have the **lead pump** automatically change daily (changes at 2 a.m.-default). Setting this to **fixed**, causes the **lead pump** to stay the same and the pump sequence does not change. Normally, the **pump sequence mode** is set to **rotate** to allow the pumps to evenly share the running time. Factory default value = **rotate**.

Rotation Type- This is used to set how the pumps rotate. Set to **time** to cause the rotation to occur only at the **rotation time of day** selected. Set to **cycle** to cause the lead pump to change each time the lead pump shuts down. Finally, set to **both** to activate both **time** and **cycle** functions. In **both** mode, the pumps will rotate each cycle as in **cycle** mode, but if the lead pump continues to run and does not shutdown, the control will change the lead pump per the **time** mode settings. Factory default value = **time**.

Rotation Rate- This setting is the number of days between pump rotation when the **rotation type** is set to **time** or **both** (in **both** mode, only when lead pump does not normally cycle off). Factory default value = 1 (1 day).

Rotation Time of Day- This setting is the time of day (military time, 0-23) when rotation is allowed when the *rotation type* is set to *time* or *both* (in *both* mode, only when lead pump does not normally cycle off). Factory default value = 2 (2 a.m.).

Pump Sleep/Minimum Speed Setting- This setting keeps the speed of all the pumps from dropping below this level. This is set at initial start-up and generally will not require adjustment. Setting this speed too low will cause the system to respond to demand changes more sluggishly. Setting this too high may lead to nuisance high pressure alarms. Factory default value = 35 Hz.

Pump Minimum Speed Off Delay Setting- This is the amount of time that the lead and lag pumps must remain at the minimum speed setting before shutting down. This is usually set 20-60 seconds. Factory default value is 30 seconds.

Boost- This is the amount of pressure that the control charges the system above the *pressure set point* before shutting down. This helps reduce the amount of on/off cycles in a given period. Increasing the *boost* will help increase the time between restarts. Too large of a *boost* setting, though, can lead to high pressure problems and or equipment damage. This is usually set 5-10 psi. Factory default value = 7 psi.

Pressure Sensor Range- This is the range of the system pressure sensor in psig units for a standard 4-20 mA sensor. For example, a sensor marked as 0 psi = 4 mA and 200 psi = 20 mA, the range would be 200. If replacing the factory sensor with one of a different range, the new range will need to be programmed in at the screen for proper pressure display and operation.

Pressure Sensor Calibration- All sensor outputs will drift with time. The sensor output can be re-calibrated with this parameter. This can be done in by either removing all pressure from the sensor and adjusting this parameter so that the pressure displays zero, or by adjusting the parameter so that the pressure display reads the same as another gage on the same line which is known to be accurate (the offset is the amount of sensor drift that has occurred). Factory default value = 0.

Low Flow Stop (flow sensor option only)- When all pumps are off except for the lead pump, the lead pump will shut down when the flow drops to or below the *low flow stop* setting. This is usually set for 5-20 gpm. Factory default value = 10 gpm.

Low Flow Stop Off Delay Time (flow sensor option only)- This is the amount of time needed after the flow drops at or below the *low flow stop* setting before the lead pump stops. This is usually set for 5-20 seconds. Factory default value = 10 seconds.

Flow Sensor Range (flow sensor option only) - This is the range of the system flow sensor in gpm units for a standard 4-20 mA sensor. For example, a sensor marked as 0 gpm = 4 mA and 300 gpm = 20 mA, the range would be 300. If replacing the factory sensor with one of a different range, the new range will need to be programmed in at the screen for proper pressure display and operation.

Pump Run Hours- The run hours for all pumps are recorded to 1/10 hour precision. The run hours cannot be changed though they can be reset to zero.

Date and Time- The month / day / year followed by the hour : minutes : seconds is displayed here. Both the hour of day (military time, 0-23) and the minutes can be adjusted if needed here.

Alarms & Screen Operation:

There are three basic alarm types; alarms that affect all the pumps (low suction, pressure transducer failure, and high pressure), those that affect a specific pump (VFD fault, and pump short cycled) and those that have no immediate effect on the pumps (PLC battery low alarm). When an alarm occurs, the red alarm screen will flash, the alarm horn will sound, an alarm message will appear on the screen, and the set of alarm contacts (optional), for remote annunciation, inside the pump control panel will activate. The flashing alarm screen, the alarm horn and alarm message will remain active until the ALARM SILENCE key is pressed. Once pressed, the red alarm screen will glow steady, the alarm horn will go silent and the screen will display its active alarm screen. Once the alarm condition returns to a normal level, the alarm can be reset by pressing the ALARM RESET key which will clear the red alarm screen, reset the alarm contacts and enable any pumps that may have been shut down. All alarms will activate the set of common alarm contacts (optional) in the control panel (wired to the terminal strip) which may be used for remote annunciation.

The alarm messages are prioritized, so that if more than one alarm is present, only the alarm with the highest priority will be shown. Once this alarm condition has changed back to normal levels, the alarm can be reset using the ALARM RESET key. Now the alarm with the next highest priority will be displayed and so on until all existing alarms are reset. When this happens, the red alarm light will turn off, and no more alarm messages will appear on the screen. When alarms, which have been previously acknowledged with the ALARM SILENCE key, are currently present and a new alarm occurs, the new alarm will be displayed on the screen, regardless of priority until the ALARM SILENCE key is pressed. Once pressed the alarm with the highest priority will again be displayed. When two or more alarms occur at the same time (or within the time of the first alarm and when the ALARM SILENCE key is pressed) only the alarm with the highest priority will be displayed. Once this alarm is reset the next alarm in order of priority will be shown.

The ***ALARM HISTORY*** screen date and time stamps all alarms in order of occurrence. The

last 24 alarms are recorded.

All alarms are listed below in order of priority from highest to lowest:

Pump 4 Failed (quadrex only)- auto reset

Pump 3 Failed (triplex/quadrex only)- auto reset

Pump 2 Failed - auto reset

Pump 1 Failed - auto reset

Low Suction Pressure - auto reset

Low Pressure Alarm - manual reset

High Pressure Alarm - auto reset

Pump 4 VFD Lost Communication (quadrex & MODBUS only)- auto reset typically

Pump 3 VFD Lost Communication (triplex/quadrex & MODBUS only)- auto reset typ.

Pump 2 VFD Lost Communication (MODBUS only)- auto reset typically

Pump 1 VFD Lost Communication (MODBUS only)- auto reset typically

Pump 4 VFD Fault (quadrex only)- auto reset typically

Pump 3 VFD Fault (triplex/quadrex only)- auto reset typically

Pump 2 VFD Fault - auto reset typically

Pump 1 VFD Fault - auto reset typically

Flow Sensor Failed (flow sensor option only)- manual reset

Pressure Sensor Failed or #1 Failed (for two redundant press. sensors)- auto reset

Pressure Sensor #2 Failed (for two redundant press. sensors)- auto reset

Pressure Sensor Error (for two redundant press. sensors)- auto reset

PLC Battery low (for PLC's with battery back-up)- auto reset

Pump Failed Alarms:

The **pump failed** alarm will activate after a short delay (3 seconds), when a pump VFD is called to start and a running signal is not received back from the VFD. This alarm will also activate soon after the lead pump starts if the pressure remains low and the lag pump is not started. The specific pump that has failed will be indicated in the alarm message. This alarm will immediately activate the next pump in the sequence to start, and will automatically reset and enable the pump after normal operation (run signal received, etc.) resumes. There are no on screen adjustments for this alarm.

Low Suction Pressure Alarm:

The **low suction pressure** alarm will activate, after a short delay (3-5 seconds), when the low suction pressure switch senses low suction pressure. This alarm will cause all pumps to shut down,

but will automatically reset and enable the pumps after normal suction pressure resumes. The switch is typically set to trip below 7 psi and to reset above 10 psi. There are no on screen adjustments for this alarm.

Low & High Pressure Alarms:

The *low system pressure alarm*, *high system pressure alarm* and their associated time delays, can be changed from the LCD operator interface.

If the system pressure falls below the *low system pressure alarm* setting, while a pump is running, for a period of time equal to the *low system pressure alarm on delay time*, the low pressure alarm will activate. This alarm will shut down all pumps and lock them off until the alarm is manually reset at the screen.

If the system rises above the *high system pressure alarm* setting, while one or more pumps are running, for a period of time equal to the *high system pressure alarm on delay time*, the high pressure alarm will activate and the pump(s) will turn off, but will automatically restart after the pressure drops below the *system pressure set point*.

Pump VFD Lost Communication Alarms: (MODBUS only)

When the variable frequency drive (VFD) for a pump loses communication for 5-10 seconds, the pump VFD lost communication alarm will activate. This alarm will lock out the pump until the communication resumes at the VFD. Check that the communication cable connections are secure at the VFD and PLC and both com ports are transmitting and receiving data.

Pump VFD Fault Alarms:

When the variable frequency drive (VFD) for a pump fails, the pump VFD fault alarm will activate. This alarm will lock out the pump until the fault is reset at the drive either manually or automatically (PLC will try to reset every 20 seconds for five attempts then resume 30 minutes later again if no successful). Consult the drive manufacturer's user manual to reset the fault at the VFD.

Flow Sensor Failed Alarm:(only with flow sensor optional)

If the system flow does not rise above 1 gpm at any time for the first 60 seconds after the lead pump starts, a **flow sensor failed** alarm will activate. Pump operation will not be stopped, but due to a false no flow indication, the system will start and stop more frequently.

Pressure Sensor Failed Alarm:

A pressure transducer is used to measure the system pressure of the pump system. If the pressure transducer fails, the **pump sensor fail** alarm will activate. All pumps will shut down, and

will not automatically reset until the transducer is repaired/replaced and/or the signal returns. For systems with two pressure sensors (one back-up), the alarm will indicate which sensor has failed and will not shut down the pumps if only one sensor has failed (both sensors must fail to shut down pumps). For systems with two sensors, the control will operate normally on only one sensor, but will not have a back-up if failure occurs.

This alarm condition may be caused by a break in the wires between the transducer and the PLC, or foreign material blocking the pressure sensing port (depressurize piping, unscrew transducer and clean). If the electrical connection is confirmed and the transducer port is unobstructed then the transducer probably needs replacement.

Pressure Sensor Error Alarm: (for systems with two pressure sensors)

If the difference in readings between the two sensors exceeds 20 psi, after a time delay (30 seconds), the **pressure sensor error alarm** will activate. This alarm will not affect pump operation. The highest reading between the two sensors will be used for controlling the pumps. This alarm will not reset until the difference in readings falls below 20 psi.

PLC Battery Low Alarm: (may or may not apply)

The PLC program is stored in non-volatile (permanent) memory; however, the screen and real time clock settings may be lost if power is removed for an extended period of time after a **PLC battery low** alarm has occurred. The PLC battery door is located on the top-right corner of the PLC. Replace with Panasonic CR2354 or equivalent. It is recommended that power be switched off when replacing the battery to avoid the risk of electrical shock. User memory will not be lost since it is also backed up with a capacitor.

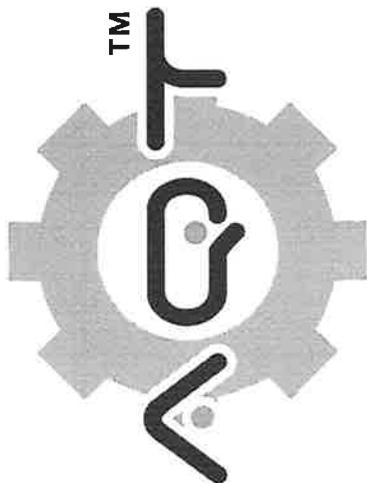
Programmable Logic Controller:

The PLC program is stored in the central processing unit's (CPU) memory. All PLC programming logic is stored on non-volatile flash EEPROM. The PLC program will remain completely intact even after extended periods without power. A back-up battery is not required. The PLC is maintenance free, and should provide years of trouble free operation. If the need arises to make changes to the system function which cannot be made by way of the screen parameters, it is recommended that the user contact the manufacturer. Changes can be quickly made at the factory and down loaded to a new processor card which can then be shipped to the user and exchanged for the original one. This can be very affordable to the user, since an onsite visit by a factory representative will not be required to make the changes.

Maintenance:

The main cabinet must be kept closed at all times to prevent the risk of electrical shock, reduce vandalism, and protect the equipment from air born debris, water intrusion, etc. If cabinet cooling fan(s) or an air conditioner is installed, periodically or as required, the circulation fan(s) should be checked for proper operation and all air filters cleaned if necessary. All VFD internal cooling fans should be checked for proper operation and air flow. Cooling fins on VFD's should be clean and free of dust and debris. A general inspection of the interior of the cabinet should be made for any signs of water damage and the source of the leak repaired. After switching the main disconnects and control power switch off (if applicable), the control panel can be safely opened and all motor wire connections to and from the disconnects, motor fuse blocks, line reactors (if applicable), and VFD's checked for looseness and overheating (tighten if necessary). A quick visual check of the entire control panel assembly should be made to see that all components are securely fastened down and all relay, timers, PLC cards, etc., are securely mounted in their sockets.

PRESSURIZED TANKS



ARO SERIES

HYDROPNEUMATIC PRESSURIZED TANK



AQT™ Hydropneumatic Pressurized Tanks are an ideal product for well applications and for applications where you want to minimize pump start-ups every time you use water. When the pump fills the tank with water, the air above the diaphragm is compressed and the increased pressure inside the tank causes the pump to shut-off. Minimized pump starts and stops prevent motor damage due to excessive cycling of the pump, creates more consistent water pressure and provides savings through reduced energy use.

AQT™ Hydropneumatic Pressurized Tanks are constructed using high strength cold rolled carbon steel for added strength and painted with triple grade enamel making them extremely durable in outdoor applications. The tanks come with stainless steel 304 NPT connections, offer a heavy-duty butyl rubber diaphragm and provide you with the peace of mind of an FDA grade polypropylene liner. This coupled with its 5-year warranty and durable design makes them the logical choice for industry professionals because of their cost to benefit ratio.



NITROGEN CHARGE ADVANTAGES

- ✓ LITTLE TO ZERO AIR REFILL
- ✓ NO PRESSURE CHANGES DUE TO TEMPERATURE CHANGES
- ✓ NITROGEN MIGRATION THROUGH DIAPHRAGM LESS LIKELY THAN OXYGEN
- ✓ FEWER PUMP START-UPS = ENERGY SAVINGS + EXTENDED PUMP LIFE

ARO SERIES

HYDROPNEUMATIC PRESSURIZED TANK

HORIZONTAL (PUMP BASE)

VERTICAL

INLINE

TANK SPECIFICATIONS

- FACTORY PRE-CHARGE: 30 psi (2 bar)
- MAX. WORKING TEMP: 200 °F (93 °C)
- MAX. WORKING PRESSURE: 150 psi (10 bar)

MATERIALS OF CONSTRUCTION

- SHELL: Cold Rolled Carbon Steel
- COATING: Triple Grade Enamel
- LINER: FDA GRADE Polypropylene
- DIAPHRAGM: Heavy-Duty Butyl Rubber
- CONNECTIONS: 304 Stainless Steel

WARRANTY

MANUFACTURER WARRANTY: 5 year Limited Warranty

WARNINGS

WARNING: BEFORE INSTALLATION, READ CAREFULLY THE PRODUCT INSTALLATION AND OPERATION INSTRUCTIONS MANUAL. FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE. FAILURE TO FOLLOW THE INSTRUCTIONS WILL VOID THE PRODUCT WARRANTY.

WARNING: EXPLOSION HAZARD! FAILURE TO FOLLOW THE INSTRUCTIONS IN THE PRODUCT MANUAL CAN CAUSE A RUPTURE OR EXPLOSION, POSSIBLY CAUSING FATAL OR SERIOUS INJURY, LEAKING, FLOODING AND/OR PROPERTY DAMAGE.

WARNING: THIS STORAGE TANK IS DESIGNED FOR OPERATION IN COLD WELL SYSTEMS AND LIMITED TO A WORKING PRESSURE OF NO GREATER THEN 125PSI. INSPECT TANK REGULARLY. IF SIGNS OF CORROSION ARE PRESENT, REMOVE TANK FROM OPERATION IMMEDIATELY.



AQT™ will not be held responsible for damage deriving from improper use of the Hydropneumatic Pressurized Tanks.

LIT-ARO-DS 10/14/21

Model Number	Tank Volume		Maximum Acceptance		Tank Diameter		Tank Height		Tank Connection (NPT)	Tank Weight	
	(gal)	(L)	(gal)	(L)	(in)	(cm)	(in)	(cm)		(lbs)	(kg)
ARO-305I-B10	0.5	3	0.25	0.95	5.1"	13	8.5"	21.5	1"	2.6	1.2
ARO-82I-B10	2	8	0.9	3.4	8"	20.3	11.4"	29	1"	5.5	2.3
ARO-1232I-B10	3.2	12	1.6	6.05	9.1"	23	15.4"	39	1"	7.5	3.2
ARO-1845I-B10	4.5	18	2.5	9.5	11"	28	15.4"	39	1"	8.5	3.7
ARO-246I-B10	6	24	3	11.4	11.6"	29.5	16.3"	41.5	1"	10.6	4.8
ARO-3810I-B10	10	38	5.2	19.7	11.6"	29.5	21.7"	55	1"	15	6.8

Model Number	Tank Volume		Maximum Acceptance		Tank Diameter		Tank Height	Tank Length		Tank Connection (NPT)	Tank Weight		
	(gal)	(L)	(gal)	(L)	(in)	(cm)	(in)	(cm)	(in)		(cm)	(lbs)	(kg)
ARO-1845H-B10	4.5	18	2.5	9.5	11"	28	12"	30	15.4"	39	1"	10	4.4
ARO-246H-B10	6	24	3	11.4	11.6"	29.5	12.6"	32	16.3"	41.5	1"	12	5.4
ARO-3810H-B10	10	38	5.2	19.7	11.6"	29.5	12.6"	32	21.7"	55	1"	16.5	7.4
ARO-5814H-B10	14	58	11.3	42.8	15"	38.1	17"	42.5	22"	53	1"	24.5	11.1
ARO-8020H-B10	20	80	13	49.2	15"	38.1	17"	42.5	30"	73	1"	32.5	14.7

Model Number	Tank Volume		Maximum Acceptance		Tank Diameter		Tank Height		Tank Connection (NPT)	Tank Weight	
	(gal)	(L)	(gal)	(L)	(in)	(cm)	(in)	(cm)		(lbs)	(kg)
ARO-5814V-B10	14	58	11.3	42.8	15"	38.1	23.6"	66	1"	24.5	11
ARO-8020V-B10	20	80	13	49.2	15"	38.1	30.7"	78	1"	32.5	14.6
ARO-10025V-B10	28	100	15	56.8	15"	38.1	39.2"	99.5	1"	40.5	18.4
ARO-12032V-B10	32	120	16	60	15"	38.1	44"	112	1"	50	22.7
ARO-13034V-B114	34	130	22.5	85	22"	55.9	29.5"	75	1 1/4"	54	24.5
ARO-16044V-B114	44	160	30	113.6	22"	55.9	36"	91.5	1 1/4"	61.5	27.8
ARO-23562V-B114	62	235	35.2	133	22"	55.9	45.7"	116	1 1/4"	83	37.7
ARO-30582V-B114	82	305	44	166.5	22"	55.9	57.1"	145	1 1/4"	104	47.1
ARO-450120V-B114	120	450	46.8	177.1	25.6"	65	55.2"	140	1 1/4"	135.6	61.5



P.O. Box 2235 Chino Hills, CA 91709 • USA

Distributed by:

Bid Bond

AIA Document A310™ – 2010

CONTRACTOR:

(Name, legal status and address)

OMNI PUMP REPAIRS, INC.
9224 Chestnut Avenue
Franklin Park, IL 60131

Bid Bond No. **GR29726**

SURETY:

(Name, legal status and principal place of business)

Granite Re, Inc.
14001 Quailbrook Drive
Oklahoma City, OK 73134

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:

(Name, legal status and address)

Village of Oak Park
201 South Boulevard
Oak Park, IL 60302

BOND AMOUNT: Ten Percent of the Bid Amount (10.00% of Bid Amount)

PROJECT:

(Name, location or address, and Project number, if any)

Domestic Water Booster Pump Replacement; Project Number: 23-138

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 13th day of December, 2023



(Witness)



(Witness) Mollie Hansen

OMNI PUMP REPAIRS, INC.

(Principal)

(Seal)

(Title) GM/Secretary of Granite Re, Inc.

(Surety)

(Title) Samuel Duchow, Attorney-in-Fact

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REQUEST FOR PROPOSALS
INSTRUCTIONS AND SPECIFICATIONS FOR:

Village of Oak Park Public Works Center Domestic Water Booster Pump Replacement
RFP # 23-138
Issuance Date: 11/15/2023

The Village of Oak Park will receive proposals from qualified contractors to furnish and install a new domestic water booster pump system to replace the existing system at the Public Works Center, located at 201 South Blvd., Oak Park, IL 60302. Proposals will be accepted at the Public Works Center Monday through Friday, 7:30 a.m. to 4:00 p.m. local time until **11:00 a.m. on Friday, December 15th, 2023**. Proposals may also be sent via e-mail to vics@oak-park.us. Proposals will be reviewed and the results of the review will be presented to the Village of Oak Park Board of Trustees.

There will be a mandatory pre-bid meeting at the Public Works Center on Monday, November 27th, 2023 at 9:00 a.m. Prospective bidders are encouraged to attend the pre-bid meeting to inspect site conditions and obtain other pertinent information about the scope of work.

Specifications and bid forms may be obtained by sending a request to Building Maintenance Superintendent, Vic Sabaliauskas at vics@oak-park.us or by stopping by the Public Works Center at the address listed above or by calling 708-358-5710.

The Board of Trustees reserves the right to accept or reject any and all proposals or to waive technicalities, or to accept any item of any proposal.

Do not detach any portion of this document. Upon formal award to the successful contractor, a written agreement will be executed in substantially the form attached.

In responding to this Request for Proposals, the official logo of the Village of Oak Park is not to be used in any form. Use of the Village logo is strictly prohibited by law and such use could subject the proposer to disqualification.

Submission of Proposals

The bid shall be submitted on the bid form included herewith. If bid is hand delivered or mailed to the Public Works Center, the bid shall be submitted in a sealed envelope marked "**BID: 23-138 Village of Oak Park Public Works Center Domestic Water Booster Pump Replacement**", shall bear the return address of the bidder, and shall be addressed as follows:

TO: Vic Sabaliauskas, Building Maintenance Superintendent
Department of Public Works
201 South Blvd.
Oak Park, IL 60302

SECTION I
PROPOSAL INSTRUCTIONS, TERMS AND CONDITIONS

Preparation and Submission of Proposal

All proposals must be delivered to the Public Works Center by the specific time indicated on the cover page. Proposals arriving after the specified time will not be accepted. Mailed proposals that are received by the Village after the specified hour will not be accepted regardless of the post-marked time on the envelope. Proposals must be signed by an officer of the company who is authorized to enter into agreements on behalf of the company. Proposals shall be sealed in an envelope and marked as stated on the cover page.

Proposal Bond

The contractor shall provide a proposal bond in the amount of ten percent (10%) of the total proposal price. The attached form may be used or the contractor may provide cash or a certified check in the amount specified. The proposal bonds, cash or checks will be returned once the selected contractor has entered into an agreement for this work and provided the Contract bond in an amount of one hundred percent (100%) of the total approved proposal price.

Contract Bond

The successful contractor shall, within ten (10) calendar days after award of the Proposal, furnish a contract bond in the amount of one hundred percent (100%) of the contract price. The bond shall ensure faithful performance of the work, and the payment for materials, labor and of the subcontractors. The bond shall be with a surety or sureties with a rating of "A" or better by A.M. Best and Company and such sureties shall be approved by the Village. Bonds in the form of certified or cashier's check shall be made payable to the Village of Oak Park, Illinois. The contract bond shall be furnished in the same number of copies as the number of copies of the agreement to be executed.

Award of Agreement

The agreement will be awarded in whole or in part to the responsible contractor whose proposal, conforming to the request for proposals, will be most advantageous to the Village; price and other factors considered.

Costs of Preparation

The Village will not be responsible for any expenses incurred in preparing and submitting a proposal or entering into the applicable agreement.

Taxes not Applicable

The Village of Oak Park as an Illinois municipality pays neither Illinois Sales Tax nor Federal Excise Tax (State Tax Exemption Identification Number E9998-1823-06). Contractors should exclude these taxes from their prices.

Withdrawal of Proposals

Any contractor may withdraw its proposal at any time prior to the time specified in the advertisement as the closing time for the receipt of proposals, by signing a request therefore. No contractor may withdraw or cancel its proposal for a period of sixty (60) calendar days after

the advertised closing time for the receipt of proposals. The successful contractor may not withdraw or cancel its proposal after having been notified that the proposal was accepted by the Village Board of Trustees.

Investigation of Contractors

The Village will make such investigations as are necessary to determine the ability of the contractor to fulfill proposal requirements. If requested, the contractor should be prepared to present evidence to the Village of Oak Park of ability and possession of necessary facilities and financial resources to comply with the terms of the attached specifications and proposals. In addition, the contractor shall furnish the Village with any information the Village may request, and shall be prepared to show completed work of a similar nature to that included in its proposal. The Village reserves the right to visit and inspect the premises and operation of any contractor.

Rejection of Contractor

The Village will reject any proposal from any person, firm or corporation that appears to be in default or arrears on any debt, agreement or the payment of any taxes. The Village will reject any proposal from a contractor that failed to satisfactorily complete work for the Village under any previous agreement.

Conditions

Contractors are advised to become familiar with all conditions, instructions and specifications governing the work. Contractors shall be presumed to have investigated the work site, conditions and scope of the work before submitting a proposal.

Compliance with Applicable Laws

The contractor will strictly comply with all ordinances of the Village of Oak Park and Village Code and laws of the State of Illinois.

Governing Law

All agreements entered into by the Village of Oak Park are governed by the laws of the State of Illinois without regard to conflicts of law. Any action brought to enforce an agreement with the Village of Oak Park must be brought in the state and federal courts located in Cook County, Illinois.

Subletting of Agreement

No agreement awarded by the Village of Oak Park shall be assigned or any part sub-agreement without the written consent of the Village of Oak Park or as noted in the contractor's proposal. In no case shall such consent relieve the contractor from its obligations or change the terms of the agreement.

Interpretation of Agreement Documents

Any contractor with a question about this proposal may request an interpretation thereof from the Village. If the Village changes the proposal, either by clarifying it or by changing the specifications, the Village will issue a written addendum, and will mail a copy of the addendum to all prospective contractors. The Village will not assume responsibility for receipt of such addendum. In all cases, it will be the contractor's responsibility to obtain all addenda issued.

Contractors will provide written acknowledgment of receipt of each addendum issued with the proposal submission.

Minority Business and Women Business Enterprise Requirements

The Village of Oak Park, in an effort to reaffirm its policy of non-discrimination, encourages the efforts of contractors and subcontractors to take affirmative action in providing for Equal Employment Opportunity without regard to race, religion, creed, color, sex, national origin, age, handicap unrelated to ability to perform the job or protected veteran's status.

Licenses and Permits

The contractor shall be responsible for becoming a licensed contractor in the Village. The contractor shall also be responsible for obtaining any and all required permits from the Village's Development Customer Services Department (Building Permits Division). The Village shall waive all permit fees.

Agreement

The selected contractor shall enter into an Independent Contractor Agreement with the Village to complete the work in a form substantially similar to the agreement attached hereto. The agreement shall be executed by the contractor and returned, together with the contract bond within ten (10) calendar days after the agreement has been mailed to the contractor. The contractor shall execute three copies of the agreement. One fully executed copy will be returned to the contractor.

Notice to Proceed

Work shall begin within fourteen (14) days from the Notice to Proceed from the Village's Building Maintenance Superintendent. All work shall be completed in accordance with the detailed specifications set forth herein, unless the Building Maintenance Superintendent grants an extension.

Fees and Cost

In the event any action is brought to enforce any agreement entered into by the Village of Oak Park, or to collect any unpaid amount from the Village of Oak Park, each party bears the responsibility of paying its own attorneys' fees and costs.

Dispute Resolution

The Village of Oak Park does not agree to the mandatory arbitration of any dispute.

SECTION II
DETAILED SPECIFICATIONS

The selected contractor shall furnish all labor, supervision, supplies, tools, equipment, vehicles and other means necessary or proper for performing and completing the work. The selected contractor shall be responsible for the cleaning up of the job site and shall repair or restore all structures and property that may be damaged or disturbed during performance of the work to the satisfaction of the Village of Oak Park.

The agreement and work shall be carried out in conformance with the laws and regulations of the Village of Oak Park and these specifications. All work will be performed according to the standards set forth in the applicable building codes and standards, including mechanical, fire, plumbing, electric, accessibility, or any other applicable codes in force in the Village of Oak Park and State of Illinois.

Alterations, Omissions and Extra Work

The Village of Oak Park reserves the right to increase or decrease the quantity of any item or portion of the work, or to omit portions of the work as may be deemed necessary.

Job Site Conditions

To the fullest extent possible, the contractor will not allow its work to interfere with the critical operations of the Fire Department. Contractor will take all necessary actions as directed by the Village in that regard.

Material Storage: The contractor shall be responsible for the storage and safety of his own materials. The Village assumes no liability whatever for any material damaged or stolen on the premises. Any damage to, or loss by theft or vandalism of any material, appurtenance, or appliance, after such has been applied, connected or installed on Village property, shall be the sole responsibility of the contractor until the project is completed and accepted by the Village.

Safety Precautions: The contractor is solely responsible for implementing effective safety precautions on and around the work site to protect workers and other persons who might be affected and shall exercise every precaution at all times for the protection of the property. The contractor shall not leave any combustible materials or other fire hazards overnight or allowed them to accumulate. The contractor shall abide by all applicable laws, standards, and regulations that apply to the completion of the work, including EPA and OSHA safety standards and regulations.

Damage to Property: Contractor shall repair, at no additional cost to the Village, all damage to Village property caused by the contractor resulting from his work. Where repair of existing work is called for, such patching and replacement shall be made to blend with existing work so that the patch or replacement will be inconspicuous after finishing.

Daily Clean-up: The contractor shall keep the premises clean and orderly during the course of the work and all debris shall be removed on a continuous basis.

Method of Payment

The Village of Oak Park will pay monthly all undisputed invoices billed at the rates set forth in the contractor's proposal within 30 days of approval as provided in the Local Government Prompt Payment Act, 50 ILCS505/4. The maximum interest rate for any payment not made within 30 days of approval is 1%.

Change Orders

Change Orders: Changes in the Work may be agreed to after execution of the agreement, and without invalidating the agreement, if the change order is in writing and signed. Any changes to the scope of work which result in an increase in the agreement price will be subject to an agreement addendum which must be signed by both parties. Any such change order will be prepared by the Village. The contractor may only proceed with the change upon receipt of the written change order signed by the Village.

Emergency Changes: Contractor may perform work not included in the scope of work if necessary to remedy a condition that poses an immediate threat to persons or property. Work of this nature shall be carried out only to the extent of bringing the condition under control. The Village shall be notified immediately. A change order will then be negotiated and executed for the work performed, and for work remaining, if any.

Minor Changes (Field Orders): The Village may verbally authorize minor changes in the scope of work in order to prevent a delay in the progression of the work. These field orders may not involve a change in the agreement price or be inconsistent with the scope of work.

Changes Due to Unknown Conditions: The contractor is not responsible for changes in the work that are due to conditions that were not reasonably observable or conditions that have changed. In such cases, the contractor shall notify the Village and a change order will be negotiated.

Any change which results in a total agreement price in excess of \$10,000 must be approved by the Village of Oak Park Board of Trustees.

Correction of Work Prior To Final Payment

The Village has the right to stop work if the contractor fails to carry out the work in a manner acceptable to the Village. If the Village deems the contractor's work unacceptable, at the Village's election, the contractor shall do one of the following:

1. Promptly repair or replace the defective work, without expense to the Village, including costs associated with repairing any damage to property caused by the replacement work; or;
2. If the Village deems it unacceptable to have the contractor correct work which has been incorrectly done, a deduction from the agreement price shall be made based on the costs to the Village to have the work repaired. Such a deduction from the agreement price shall in no way affect the Village's other remedies or relieve the contractor from responsibility for defects and related damage occurring as a result of defective or unacceptable work.

Contractor's Representative

The contractor shall have at all times a competent foreman or superintendent on the job that shall have full authority to act for the contractor, and to receive and execute orders from the Director of Public Works or appointed representative. Any instructions given to such superintendent or person executing work for the contractor shall be binding on the contractor as though given to him personally. Contractor's representative must be proficient in the use and interpretation of the English language.

Workers

The contractors shall employ competent laborers and shall replace, at the request of the Building Maintenance Superintendent any incompetent, unfaithful, abusive or disorderly workers in their employ. Only workers expert in their respective branches of work shall be employed where special skill is required. Inappropriate behavior or examples of unproductive work effort will not be tolerated. The Village has the right to require a contractor's employee to be immediately removed from the work crew if the above behavior is exhibited.

Dispute Resolution

All disputes, including collection disputes, shall be brought in the Circuit Court of Cook County, Illinois. This agreement shall be interpreted in accordance with the laws of the State of Illinois. In any dispute resolution process, each party shall bear its own costs, including attorney's fees. Any purported agreement between the parties that states terms contrary to this paragraph M will be deemed per se invalid.

Mandatory Qualifications for Contractor's Personnel

Crews shall include at least one (1) supervisor during any given shift.

1. No more than 50% of the crew may be trainees at any one time.
2. Supervisors must be fluent in the English language and capable of reading and writing English.
3. Technicians employed by the contractor selected shall be fully trained and skilled in safe and proper techniques. Specific training required must follow the OSHA standards (*see below*).
4. The contractor selected shall provide sufficient documentation, if requested by the Village, to demonstrate adequate training has been provided upon commencement of the agreement. Contractor selected shall submit statement outlining training program and method of verifying employee competency. Failure to do so may be ample cause for rejection of proposal. The use of technicians who are not adequately trained may be sufficient grounds for termination of the agreement.
5. The Village reserves the right to require immediate removal of any employee of the contractor selected deemed unfit for service for any reason. This right is non-negotiable and the contractor selected agrees to this condition by accepting this agreement. The contractor selected shall have enough qualified personnel to replace a terminated employee within 24 hours. Failure to do so can result in the termination of the agreement.

OSHA Requirements

1. Material Safety Data Sheets – Contractor selected shall furnish the Village of Oak Park copies of Material Safety Data Sheets (MSDS), for all products used, prior to beginning service at Village facilities. In addition, each time a new chemical is introduced, a copy of that product's MSDS must be provided to the Building Maintenance Superintendent prior to the product being used. The Material Safety Data Sheets must be in compliance with OSHA Regulation 1910.1200, paragraph g.
2. Labeling of Hazardous Materials – Contractor selected shall comply with OSHA regulation 1919.1200, paragraph f, concerning labeling of all chemical containers.
3. Caution Signs – Contractor selected shall use “caution signs” as required by OSHA Regulation 1910.44 and 1910.145 at no cost to the Village. Caution signs shall be on-site upon commencement of agreement.

Proof of compliance with OSHA regulation 1920.1200, Hazard Communication, shall be provided to the Building Maintenance Superintendent upon commencement of this agreement, if requested.

Failure of the contractor selected or his/her employees to comply with all applicable laws, regulations and rules shall permit the Village to immediately terminate this agreement without liability.

Prevailing Wages

Contractor and any applicable subcontractor shall pay prevailing wages as established by the Illinois Department of Labor and determined by the Village for each craft or type of work needed to execute the contract in accordance with the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 *et seq.* (“Act”). Contractor shall prominently post the current schedule of prevailing wages at the Project site(s) and shall notify immediately in writing all of its subcontractors of all changes in the schedule of prevailing wages. Any increases in costs to Contractor due to changes in the prevailing rate of wage during the terms of any Contract shall be at the sole expense of Contractor and not at the expense of the Village, and shall not result in an increase to the Contract Price. Contractor shall be solely responsible to maintain accurate records as required by the Act and shall submit certified payroll records to the Village evidencing its compliance with the Act on no less than a monthly basis as required by the Act. Contractor shall be solely liable for paying the difference between prevailing wages and any wages actually received by laborers, workmen and/or mechanics engaged in the Work for the Project.

Contractor shall indemnify, hold harmless, and defend the Village, its officers, officials, employees, agents and volunteers (“Indemnified Parties”) against all regulatory actions, complaints, damages, claims, suits, liabilities, liens, judgments, costs and expenses, including reasonable attorney’s fees, which may in any way arise from or accrue against the Indemnified Parties as a consequence of noncompliance with the Act or which may in any way result therefrom, including a complaint by the Illinois Department of Labor under Section 4(a-3) of the Act, 820 ILCS 130/4(a-3) that any or all of the Indemnified Parties violated the Act by failing to give proper notice to the Grantee or any other party performing work on the Public

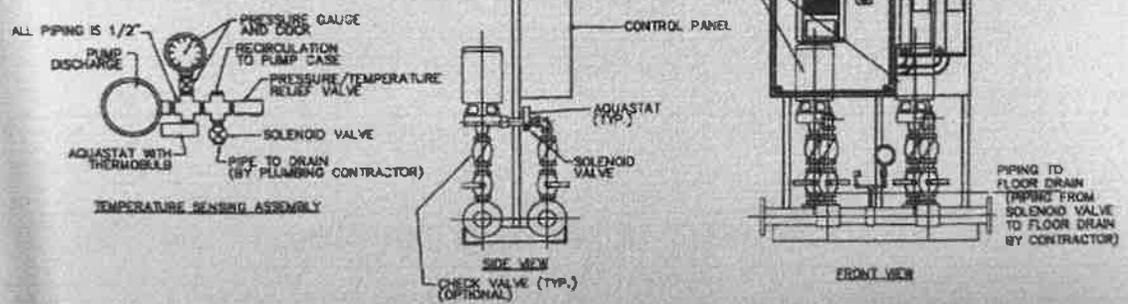
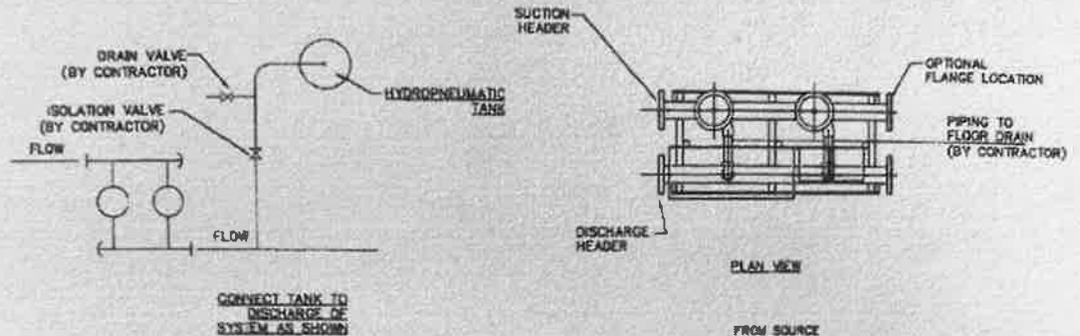
Improvements that not less than the prevailing rate of wages shall be paid to all laborers, workers and mechanics performing Work on the Project, including interest, penalties or fines under Section 4(a-3). The indemnification obligations of this section on the part of Contractor shall survive the termination or expiration of this Agreement. In any such claim, complaint or action against the Indemnified Parties, Contractor shall, at its own expense, appear, defend and pay all charges of reasonable attorney's fees and all reasonable costs and other reasonable expenses arising therefrom or incurred in connection therewith, and, if any judgment or award shall be rendered against the Indemnified Parties in any such action, Contractor shall at its own expense, satisfy and discharge such judgment or award.

SECTION III
SCOPE OF WORK

The existing domestic water booster pump system at the Public Works Center has reached the end of its useful service life and is in need of replacement. The existing system is a Metropolitan Bell & Gosset system. The Village is seeking prices to replace the existing system with a new, in-kind system. Details and specifications and photos of the existing system are below.

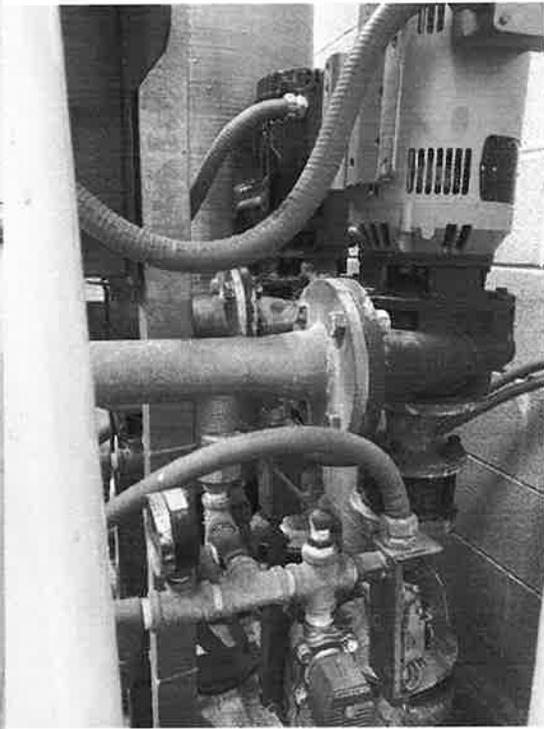
Pump No.	Type	Manuf.	GPM	TDH Feet	Motor			Remarks	Model No.
					V/PH/HZ	HP	RPM		
HP-1	Domestic Booster Pump	Metropolitan Bell & Gosset Fluid Pump, or Syncro Flow	150 each	100	480/3/60	7.5	3500	Factory packaged duplex variable speed pumping system with 110 gal. hydro-pneum. tank	TP-17 Plus

VFD serial #: 2190203366









SECTION IV
PROPOSAL FORM (Pricing)

The undersigned proposes to furnish all labor and materials required to complete the Work in accordance with the attached specifications and at the price indicated below.

Total Lump Sum Cost to Install New Domestic Water Booster Pump System for the Village of Oak Park:

\$ 54,975⁰⁰

Alternates:

List any proposed alternates and associated costs here or attach as a separate sheet with proposal.

FURN Duplex Domestic water System
Review Attached proposal

24-Hour Emergency Call-back Number:

(847) 858-4706

Printed Name: Pete Moraitis

Proposal Signature:  _____

State of ILLINOIS) County of Cook)

Pete Moraitis

(Type Name of Individual Signing)

being first duly sworn on oath deposes and says that the contractor on the above proposal is organized as indicated below and that all statements herein made on behalf of such Contractor and that their deponent is authorized to make them, and also deposes and says that deponent has examined and carefully prepared their proposal from the agreement specifications and has checked the same in detail before submitting this proposal; that the statements contained herein are true and correct.

Signature of contractor authorizes the Village of Oak Park to verify references of business and credit at its option.

Signature of contractor shall also be acknowledged before a Notary Public or other person authorized by law to execute such acknowledgments.

Dated: December / 14 / 2023

OHNI-Pump Repairs, INC

Organization Name
(Seal - If Corporation)

By: [Signature]

9224 Chestnut Ave Franklin Park
Address IL 60131

Telephone: 847 451-0000

Subscribed and sworn to before me this 14th day of December, 2023

Anna Wybraniec in the State of Illinois. My

Commission
Notary Public Anna Wybraniec



Expires on Jun / 02 / 2024

Complete Applicable Paragraph Below

(a) Corporation

The contractor is a corporation, which operates under the legal name of OHNI-pump repairs, INC and is organized and existing under the laws of the State of ILLINOIS. The full names of its Officers are:

President Mary Moraitis

Secretary Peter Moraitis

Treasurer _____

The corporation does have a corporate seal. (In the event that this proposal is executed by a person other than the President, attach hereto a certified copy of that section of Corporate By-Laws or other authorization by the Corporation that permits the person to execute the offer for the corporation.)

(b) Partnership

Names, Signatures, and Addresses of all Partners

The partnership does business under the legal name of _____, which name is

is registered with the office of _____ in the
county of

_____.

(c) Sole Proprietor

The contractor is a Sole Proprietor whose full name is

_____. If the contractor is operating under

a trade name, said trade name is _____,

which name is registered with the office of _____

in the county of _____.

Signed: _____

Sole Proprietor

In compliance with the above, the undersigned offers and agrees, if his/her proposal is accepted within ninety (90) calendar days from date of opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, delivered at the designated point within the time specified above.

MUNICIPAL QUALIFICATION REFERENCE SHEET
(or attach separate form)

MUNICIPALITY Metra Railroad
ADDRESS 547 W. Jackson Blvd
Chicago IL. 60661
CONTACT John Thomas
PHONE (312) 617-2733 E-mail: jnthomas@metrarr.com
WORK PERFORMED Repair of pumps, motor
New pumps, motors
MUNICIPALITY Village of Western Springs
ADDRESS 740 Hillgrove Ave
Western Springs IL. 60558
CONTACT Erin Duffy
PHONE (708) 246-1800 x 214 E-mail: eduffy@wsprings.com
WORK PERFORMED New Pumps Install
Repair of pumps
MUNICIPALITY Village of Wilmette
ADDRESS 1200 Wilmette Ave
Wilmette IL. 60091
CONTACT Peter Kumiega
PHONE (847) 853-7538 E-mail: Kumiegap@wilmette.com
WORK PERFORMED New Pumps Install
Repair of pumps

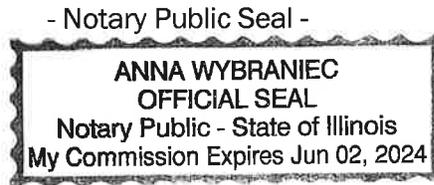
SECTION V
CONTRACTOR CERTIFICATION

Omni-Ramp Repairs, Inc., as part of its proposal on an agreement for construction Work
(Name of Contractor selected) for the Village of Oak Park, hereby certifies that said contractor selected
is not barred from proposing on the aforementioned agreement as a result of a violation to
either Section 33E-3 or 33E-4 of Article 33E of Chapter 38 of the Illinois Revised Statutes or
Section 2-6-12 of the Oak Park Village Code relating to "Proposing Requirement.

 Pete Moraitis
(Authorized Agent of Contractor selected)

Subscribed and sworn to before me this 14th day of December, 2023.


Notary Public's Signature



SECTION VI
TAX COMPLIANCE AFFIDAVIT

Peter Moraitis, being first duly sworn, deposes and says:

that he/she is GM / Secretary of
(partner, officer, owner, etc.)

OMNI-PUMP REPAIRS, INC.
(Contractor selected)

The individual or entity making the foregoing proposal or proposal certifies that he/she is not barred from entering into an agreement with the Village of Oak Park because of any delinquency in the payment of any tax administered by the Department of Revenue unless the individual or entity is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax or the amount of the tax. The individual or entity making the proposal or proposal understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition, voids the agreement and allows the municipality to recover all amounts paid to the individual or entity under the agreement in civil action.


By: Peter Moraitis
Its: GM / Secretary
OMNI-PUMP REPAIRS, INC.
(name of contractor if the contractor is an individual)
(name of partner if the contractor is a partnership)
(name of officer if the contractor is a corporation)

The above statement must be subscribed and sworn to before a notary public.

Subscribed and sworn to before me this 14th day of December, 2023.

Anna Wybraniec
Notary Public's Signature

- Notary Public Seal -



Reporting Requirements

The following forms must be completed in their entirety, notarized and included as part of the proposal document. Failure to respond truthfully to any question on the list or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of your proposal.

SECTION VII
ORGANIZATION OF PROPOSING FIRM

Please fill out the applicable section:

A. Corporation:

The contractor is a corporation, legally named OMNI-Pump Repairs, Inc. and is organized and existing in good standing under the laws of the State of Illinois. The full names of its officers are:

President Mary Moraitis

Secretary Pete Moraitis

Treasurer _____

Registered Agent Name and Address: OMNI-Pump Repairs, Inc. 9224 Chestnut Ave Franklin Park, IL 60131

The corporation has a corporate seal. (In the event that this proposal is executed by a person other than the President, attach hereto a certified copy of that section of Corporate By-Laws or other authorization by the Corporation that permits the person to execute the offer for the corporation.)

B. Sole Proprietor:

The contractor is a Sole Proprietor. If the contractor does business under an assumed name, the

assumed name is _____, which is registered with the Cook County Clerk. The contractor is otherwise in compliance with the Assumed Business Name Act, 805 ILCS 405/0.01, et. seq.

C. Partnership:

The contractor is a partnership which operates under the name _____

The following are the names, addresses and signatures of all partners:

Signature	Signature

(Attach additional sheets if necessary.) If so, check here _____.

If the partnership does business under an assumed name, the assumed name must be registered with the Cook County Clerk and the partnership is otherwise in compliance with the Assumed Business Name Act, 805 ILCS 405/0.01, et. seq.

D. Affiliates: The name and address of any affiliated entity of the business, including a description of the affiliation: _____

Signature of Owner

SECTION VIII
PROPOSAL BOND

WE _____
as PRINCIPAL, and _____
as SURETY, are held and firmly bound unto the Village of Oak Park, Illinois (hereafter referred to as "VOP") in the penal sum of Ten Percent (10%) of the total Proposal price, as specified in the invitation for Proposals. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly to pay to the VOP this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written Proposal to the VOP acting through its awarding authority for the completion of the work designated as the above section.

THEREFORE if the Proposal is accepted and an agreement awarded to the PRINCIPAL by the VOP for the above-designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal agreement, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in specifications then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the VOP determines the PRINCIPAL has failed to enter into a formal agreement in compliance with any requirements set forth in the preceding paragraph, then the VOP acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. 2023.

PRINCIPAL

(Company Name) (Company Name)

By: _____ By: _____
(Signature & Title) (Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed)

See Attached Bond



Subscribed to and sworn before me on the
_____ day of _____, 2023.

Notary Public

NAME OF SURETY

By: _____
Signature of Attorney-in-Fact

subscribed to and sworn before me on the
_____ day of _____, 2023.

Notary Public

SECTION IX
CONTRACT BOND



Contract Bond

_____, as PRINCIPAL, and _____ as SURETY, are held and firmly bound unto the Village of Oak Park (hereafter referred to as "Village") in the penal sum of _____, well and truly to be paid to the Village, for the payment of which its heirs, executors, administrators, successors and assigns, are bound jointly to pay to the Village under the conditions of this instrument.

WHEREAS, THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the Principal has entered into a written contract with the Village, acting through its President and Board of Trustees, for the construction of work, which contract is hereby referred to and made a part hereof as if written herein at length, and whereby the Principal has promised and agreed to perform the work in accordance with the terms of the contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work, including paying not less than the prevailing rate of wages in Cook County, where the work is for the construction of any public work subject to the Prevailing Wage Act, and has further agreed to save and indemnify and keep harmless the Village against all liabilities, judgments, costs and expenses which may in any manner accrue against the Village in consequence of granting such contract or which may in any manner result from the carelessness or neglect of the Principal, his agents, employees or workmen in any respect whatever; and has further agreed that this bond will inure to the benefit of any person, firm, company, or corporation, to whom any money may be due from the Principal, subcontractor or otherwise, for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company, or corporation, for the recovery of any such money.

NOW THEREFORE, if the Principal shall well and truly perform the work in accordance with the terms of the contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to it for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in the contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of performance thereof and until the work shall have been accepted, and shall save and indemnify and keep harmless the Village against all liabilities, judgments, costs and expenses which may in any manner accrue against the Village in consequence of granting such contract or which may in any manner result from the carelessness or neglect of the Principal, his agents, employees or workmen in any respect whatever; and shall in all respects fully and faithfully comply with all the provisions, conditions, and requirements of the contract, then this obligation will be void; otherwise it will remain in full force and effect.

IN WITNESS WHEREOF, the PRINCIPAL and the SURETY have caused this instrument to be signed by their respective officers this _____ day of _____, 2023.

NAME OF PRINCIPAL

By: _____
Signature

By: _____
Printed Name

Its: _____
Title

Subscribed to and Sworn before me on the
_____ day of _____, 2023.

Notary Public

NAME OF SURETY

By: _____
Signature of Attorney-in-Fact

Subscribed to and Sworn before me on the
_____ day of _____, 2023.

Notary Public

**SECTION X
COMPLIANCE AFFIDAVIT**

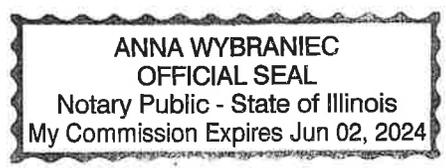
I, Peter Moraitis, (print name) being first duly sworn on oath depose and state:

1. I am the (title) Gen/Secretary of the proposing company and am authorized to make the statements contained in this affidavit on behalf of the company;
2. I have examined and carefully prepared this Proposal based on the request and have verified the facts contained in the Proposal in detail before submitting it;
3. The proposing company is organized as indicated above on the form entitled "Organization of Proposing Company."
4. I authorize the Village of Oak Park to verify the company's business references and credit at its option;
5. Neither the proposing company nor its affiliates¹ are barred from proposing on this project as a result of a violation of 720 ILCS 5/33E-3 or 33E-4 relating to Proposal rigging and Proposal rotating, or section 2-6-12 of the Oak Park Village Code relating to "Proposing Requirements".
6. The proposing company has the M/W/DBE status indicated below on the form entitled "EEO Report."
7. Neither the proposing company nor its affiliates is barred from agreementing with the Village of Oak Park because of any delinquency in the payment of any debt or tax owed to the Village except for those taxes which the proposing company is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax or the amount of the tax. I understand that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition, voids the agreement and allows the Village of Oak Park to recover all amounts paid to the proposing company under the agreement in civil action.
8. I am familiar with Section 13-3-2 through 13-3-4 of the Oak Park Village Code relating to Fair Employment Practices and understand the contents thereof; and state that the proposing company is an "Equal Opportunity Employer" as defined by Section 2000(E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11246 and #11375 which are incorporated herein by reference. **Also complete the attached EEO Report or Submit an EEO-1.**
9. I certify that the contractor is in compliance with the Drug Free Workplace Act, 41 U.S.C.A, 702

Signature: [Signature]
Name and address of Business: OMWI - Pump Repairs, Inc 9224 Chestnut Ave Franklins Park, IL 60131
Telephone 847 451-0000 E-Mail peter@omnipumps.com
Subscribed to and sworn before me this 14th day of December, 2023.

Anna Wybraniec
Notary Public

- Notary Public Seal -



¹ Affiliates means: (i) any subsidiary or parent of the agreementing business entity, (ii) any member of the same unitary business group; (iii) any person with any ownership interest or distributive share of the agreementing business entity in excess of 7.5%; (iv) any entity owned or controlled by an executive employee, his or her spouse or minor children of the agreementing business entity.

SECTION XI
M/W/DBE STATUS AND EEO REPORT

Failure to respond truthfully to any questions on this form, failure to complete the form or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of this Proposal.

1. Contractor Name: OMNI-RMP REPAIRS, INC.

2. Check here if your firm is:

- Minority Business Enterprise (MBE) (A firm that is at least 51% owned, managed and controlled by a Minority.)
- Women's Business Enterprise (WBE) (A firm that is at least 51% owned, managed and controlled by a Woman.)
- Owned by a person with a disability (DBE) (A firm that is at least 51% owned by a person with a disability)
- None of the above

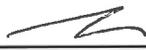
[Submit copies of any W/W/DBE certifications] not certified

3. What is the size of the firm's current stable work force?

7 Number of full-time employees

_____ Number of part-time employees

4. Similar information will be requested of all sub-contractors working on this agreement. Forms will be furnished to the lowest responsible contractor with the notice of agreement award, and these forms must be completed and submitted to the Village before the execution of the agreement by the Village.

Signature: 

Date: 12/14/23

EEO Report

Please fill out this form completely. Failure to respond truthfully to any questions on this form, or failure to cooperate fully with further inquiry by the Village of Oak Park will result in disqualification of this Proposal. An incomplete form will disqualify your Proposal.

An EEO-1 Report may be submitted in lieu of this report

Contractor Name OMNI - Pump Repairs, Inc.
 Total Employees 7

Job Category	Total # of Empl.	Males							Females				Total Minorities
		Total Males	Total Females	Black	Hispanic	American Indian	Alaskan Native	Asian & Pacific Islander	Hispanic	American Indian	Alaskan Native	Asian & Pacific Islander	
Officials & Managers	2	1	1										0
Professionals													
Technicians	4	4			1								1
Sales Workers													
Office & Clerical	1		1										0
Semi-Skilled													
Laborers													
Service Workers													
Management Trainees													
Apprentices													

This completed and notarized report must accompany your Proposal. It should be attached to your Affidavit of Compliance. Failure to include it with your Proposal will be disqualify you from consideration.

Peter Moraitis, being first duly sworn, deposes and says that he/she is the GM/ Secretary

(Name of Person Making Affidavit)

(Title or Officer)

of OMNI - Pump Repairs and that the above EEO Report information is true and accurate and is submitted with the intent that it

be relied upon. Subscribed and sworn to before me this 14th day of December, 2023.

Anna Wybraniec
(Signature)

12/14/23
(Date)



SECTION XII
NO PROPOSAL EXPLANATION

If your company does not wish to propose on the attached specifications, the Village of Oak Park would be interested in any explanation or comment you may have as to what prevented your firm from submitting a Proposal.

Thank you.

Proposal Name:

Village of Oak Park Public Works Center Domestic Water Booster Pump Replacement
RFP # 23-138
Issuance Date: 11/15/2023

Comments:

Signed: _____

Phone: _____

NA



SAMPLE ONLY – DO NOT SIGN
INDEPENDENT CONTRACTOR AGREEMENT

THIS INDEPENDENT CONTRACTOR AGREEMENT (“Contract”) is entered into on the ____ day of _____ 2023, by and between the Village of Oak Park, an Illinois home rule municipal corporation (hereinafter the “Village”), and _____, a _____ (hereafter the “Contractor”).

WHEREAS, the Contractor submitted a Proposal to renovate the bunk room, locker room and restroom at the south fire station (hereinafter referred to as the “Work”), pursuant to the Village’s Request for Proposals, attached hereto and incorporated herein by reference; and

WHEREAS, the Contractor represented in said Proposal that it has the necessary personnel, experience, and competence to promptly complete the Work and the work required hereunder; and

WHEREAS, the Contractor’s Proposal is attached hereto and incorporated herein by reference into this Agreement; and

WHEREAS, the Contractor shall perform the Work pursuant to the terms and conditions of this Contract..

NOW, THEREFORE, in consideration of the premises and the mutual promises contained in this Contract,, and other good and valuable consideration received and to be received, it is mutually agreed by and between the parties as follows:

1. RECITALS INCORPORATED

The above recitals are incorporated herein as though fully set forth.

2. SCOPE OF WORK

The Contractor shall perform the Work in accordance with its Proposal for a total cost not to exceed \$_____ (“Contract Price”). The Contractor shall complete the Work in accordance with any applicable manufacturers’ warranties and in accordance with the Village’s Request for Proposals, the Contractor’s Proposal and this Contract, all of which, together shall constitute the Contract Documents. The Contractor acknowledges that it has inspected the sites where the work is to be performed and that it is fully familiar with all of the conditions at the sites, and further that its Proposal has adequately taken into consideration all of the conditions at the sites. The Contractor hereby represents and warrants that it has the skill and experience necessary to complete this Work in a good and workmanlike manner. The Contractor further represents and warrants that the Work will be completed in a good and workmanlike manner in accordance with the Contract Documents, and that the Work will be free from defects.

The Contractor shall achieve completion of all work required pursuant to the Contract

Documents by December 31, 2022 ("Contract Time"). The Contract Time is of the essence. In the event the Contractor fails to complete the Project on or before said date, the Village shall be entitled to liquidated damages in the amount of \$500.00 per day for each day the work remains uncompleted beyond the completion date set forth above. This amount is not a penalty, and the parties agree to said amount given the difficulties associated with determining or calculating damages to the Village in the event the Project is not completed on time. The Contractor shall have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time based upon conditions found at, or in the vicinity of, the site(s).

3. DESIGNATED REPRESENTATIVES

The Contractor shall designate in writing a person to act as its designated representative with respect to the Work to be performed under this Agreement. Such person shall have complete authority to transmit and receive instructions and information, interpret and define the Contractor's policies and decisions with respect to the Work governed by this Contract. The Village's Building Maintenance Superintendent shall have complete authority to transmit and receive instructions and information, interpret and define the Village's policies and decisions with respect to the Work governed by this Contract, or such other person as designated in writing by the Village Manager.

4. TERM OF CONTRACT

The Contractor shall perform the Work pursuant to this Contract beginning on the effective date as defined herein and ending on December 31st, 2022 or on the date that the Work is completed as determined by the Village. The Contractor shall invoice the Village for the Work provided pursuant to this Contract the rates set forth in its Proposal.

5. PAYMENT SCHEDULE

The Contractor shall, as a condition precedent to its right to receive any payment, submit to the Village an application for payment and such receipts, vouchers, and other documents as may be necessary to establish the Contractor's payment for all labor and material and the absence of any interest whether in the nature of a lien or otherwise of any party in any property, work, or fund with respect to the Work performed hereunder. Such documents shall include, where relevant, the following forms, copies of which are attached hereto:

- (i) Contractor's sworn statement;
- (ii) Contractor's partial or final waiver of lien;
- (iii) Subcontractor's sworn statement(s); and
- (iv) Subcontractor's partial or final waiver of lien.

Payment by the Village shall be conditioned upon an inspection by the Village of the work completed and submission of required waivers by the Contractor. Payment by

the Village shall in no way constitute a waiver of, or relieve the Contractor from, any defects in the work. All payments shall be made in accordance with the Illinois Local Government Prompt Payment Act, 50 ILCS 505/1 *et seq.* Final payment for any Work performed by the Contractor pursuant to an invoice by the Contractor shall be made by the Village to the Contractor when the Contractor has fully performed the work and the work has been approved by the Village and submission of required waivers and paperwork by Contractor. Approval of the work and issuance of the final payment by the Village shall not constitute a waiver of, or release the Contractor from, any defects in the work.

The Village shall have the right to withhold from any payment due hereunder such amount as may reasonably appear necessary to compensate the Village for any actual or prospective loss due to Work which is defective or does not conform to the Contract Documents; damage for which the Contractor is liable hereunder; liens or claims of liens; claims of third parties, subcontractors, or material men; or any failure of the Contractor to perform any of its obligations under this Contract. The Village may apply any money withheld or due Contractor hereunder to reimburse itself for any and all costs, expenses, losses, damages, liabilities, suits, judgments, awards, and attorney's fees incurred, suffered, or sustained by the Village and chargeable to the Contractor.

6. TERMINATION

The Village may terminate this Contract for cause, which includes but is not necessarily limited to, the Contractor's failure to perform the work pursuant to this Contract. The Village shall provide the Contractor with five (5) days' written notice of a termination for cause pursuant to the provisions of Section 12 below. The Village may also terminate this Contract when it determines the same to be in its best interests by giving fourteen (14) days' written notice to the Contractor pursuant to the provisions of Section 12 below. In such event, the Village shall pay to the Contractor all amounts due for the work performed up to the date of termination.

7. COMPLIANCE WITH APPLICABLE LAWS

The Contractor shall comply with all applicable laws, regulations, and rules promulgated by any federal, state, county, municipal and/or other governmental unit or regulatory body now in effect during the performance of the work. By way of example only and not as a limitation, the following are included within the scope of the laws, regulations and rules with which the Contractor must comply: all forms of Workers Compensation Laws, all terms of the equal employment opportunity rules and regulations of the Illinois Department of Human Rights, statutes relating to contracts let by units of government, and all applicable civil rights and anti-discrimination laws and regulations.

8. INDEMNIFICATION

To the fullest extent permitted by law, the Contractor shall waive any right of contribution against the Village and shall indemnify and hold harmless the Village and

its officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses, including, but not limited to, legal fees (attorney's and paralegal's fees, expert fees and court costs) arising out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of property, other than the work itself, including the loss of use resulting therefrom, or is attributable to misuse or improper use of trademark or copyright-protected material or otherwise protected intellectual property, to the extent it is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. Such obligation shall not be construed to negate, abridge or otherwise reduce any other right to indemnity which the Village would otherwise have. The Contractor shall similarly protect, indemnify and hold and save harmless, the Village, its officers, officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses, including, but not limited to, legal fees incurred by reason of the Contractor's breach of any of its obligations under, or the Contractor's default of, any provisions of this Contract. The indemnification obligations under this Section shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any subcontractor under Workers' Compensation or Disability Benefit Acts or Employee Benefit Acts.

9. INSURANCE

The Contractor shall, at the Contractor's expense, secure and maintain in effect throughout the duration of this Contract, insurance of the following kinds and limits set forth in this Section. The Contractor shall furnish "Certificates of Insurance" to the Village before beginning Work on the Project pursuant to this Contract. All insurance policies shall be written with insurance companies licensed to do business in the State of Illinois and having a rating of at least A:VII according to the latest edition of the Best's Key Rating Guide; and shall include a provision preventing cancellation of the insurance policy unless thirty (30) days prior written notice is given to the Village. This provision shall also be stated on each Certificate of Insurance: "Should any of the above described policies be canceled before the expiration date, the issuing company shall mail fifteen thirty (30) days written notice to the certificate holder named to the left."

The limits of liability for the insurance required shall provide coverage for not less than the following amounts, or greater where required by law:

(A) **Commercial General Liability:**

i. Coverage to include Broad Form Property Damage, Contractual and Personal Injury.

ii. Limits:

General Aggregate	\$ 2,000,000.00
Each Occurrence	\$ 1,000,000.00
Personal Injury	\$ 1,000,000.00

iii. Coverage for all claims arising out of the Contractor's operations or premises and anyone directly or indirectly employed by the Contractor.

(B) **Workers' Compensation:**

i. Workers' Compensation insurance shall be provided in accordance with the provisions of the laws of the State of Illinois, including occupational disease provisions, for all employees who perform the Work pursuant to this Contract, and if work is subcontracted pursuant to the provisions of this Contract, the Contractor shall require each subcontractor similarly to provide workers' compensation insurance. In case employees engaged in hazardous work under this Contract are not protected under the Workers' Compensation Act, the Contractor shall provide, and shall cause each subcontractor to provide, adequate and suitable insurance for the protection of employees not otherwise provided.

(C) **Comprehensive Automobile Liability:**

i. Comprehensive Automobile Liability coverage shall include all owned, hired, non-owned vehicles, and/or trailers and other equipment required to be licensed, covering personal injury, bodily injury and property damage.

ii. Limits:
Combined Single Limit \$1,000,000.00

(D) **Umbrella:**

i. Limits:
Each Occurrence/Aggregate \$ 5,000,000.00

(E) The Village, its officers, employees, agents and volunteers shall be named as additional insureds on all insurance policies set forth herein except Workers' Compensation. The Contractor shall be responsible for the payment of any deductibles for said insurance policies. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officers, employees, agents, and volunteers.

(F) The Contractor understands and agrees that any insurance protection required by this Contract or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless, and defend the Village, its officers, employees, agents and volunteers as herein provided.

10. GUARANTY

The Contractor warrants and guarantees that its Work provided for the Project to be performed under this Agreement, and all workmanship, materials, equipment, and supplies performed, furnished, used, or installed under this Contract, shall be free from defects and flaws in workmanship or design; shall strictly conform to the requirements of

this Contract; and shall be fit and sufficient for the purposes expressed in, or reasonably inferred from, this Contract. The Contractor further warrants and guarantees that the strength of all parts of all manufactured materials, equipment, and supplies shall be adequate and as specified and that the performance requirements of this Contract shall be fulfilled.

The Contractor shall, at no expense to the Village, correct any failure to fulfill the above guaranty that may appear at any time. In any event, the guaranty herein expressed shall not be sole and exclusive, and is additional to any other guaranty or warranty expressed or implied.

11. AFFIDAVIT OR CERTIFICATE

The Contractor shall furnish any affidavit or certificate in connection with the work covered by this Contract as required by law.

12. NOTICES

Any notice required to be given by this Contract shall be deemed sufficient if made in writing and sent by certified mail, return receipt requested, or personal service, or by facsimile transmission to the persons and addresses indicated below or to such addresses and persons as either party hereto shall notify the other party of in writing pursuant to the provisions of this Section:

To the Village:

Village Manager
Village of Oak Park
123 Madison Street
Oak Park, Illinois 60302-4272
Email: villagemanager@oak-park.us
Facsimile: (708) 358-5101

To the Contractor:

Pete Morrione
OMNIPUMP PUMPS, INC.
9224 Chestnut Ave
Franklin Park, IL 60131
Email: Pete@OMNIPUMPS.COM
Facsimile: 847 451-0119

Mailing of such notice as and when above provided shall be equivalent to personal notice and shall be deemed to have been given at the time of mailing.

Notice of facsimile transmission shall be effective as of date and time of facsimile transmission, provided that the notice transmitted shall be sent on business days during business hours (9:00 a.m. to 5:00 p.m. Chicago time). In the event facsimile notice transmitted during non-business hours, the effective date and time of notice is the first hour of the first business day after transmission.

13. AUTHORITY TO EXECUTE

The individuals executing this Contract on behalf of the Contractor and the Village represent that they have the legal power, right, and actual authority to bind their respective parties to the terms and conditions of this Contract.

14. EFFECTIVE DATE

The effective date of this Contract reflected above and below shall be the date that the Village Manager executes this Contract behalf of the Village.

15. ENTIRE CONTRACT; APPROVAL OF SUBCONTRACTORS

This Contract, including the documents incorporated by reference herein, sets forth the entire Contract of the parties with respect to the accomplishment of the Work. No right or interest in this Contract shall be assigned, in whole or in part, by either party without the prior written consent of the other party. The Village reserves the right to approve the use of subcontractors to complete any portion of the Work and to approve any applicable contract between the Contractor and a proposed subcontractor to perform any of the Work. This Contract shall be binding upon the parties and upon their respective heirs, executors, administrators, personal representatives, successors, and assigns, except as herein provided.

16. INDEPENDENT CONTRACTOR

The Contractor shall have the full control of the ways and means of performing the work referred to above and that the Contractor and its employees, representatives or subcontractors are not employees of the Village, it being specifically agreed that the Contractor bears the relationship of an independent contractor to the Village. The Contractor shall solely be responsible for the payment of all salaries, benefits and costs of supplying personnel for the Work.

17. CONTRACT BOND

The Contractor, before commencing the work on the Project, shall furnish a Contract Bond. The Contract Bond shall be in an amount equal to 100% of the full amount of the Contract Sum as security for the faithful performance of its obligations pursuant to the Contract Documents and as security for the payment of all persons performing labor and furnishing materials in connection with the Contract Documents. Such bond shall be on standard AIA Documents, shall be issued by a surety satisfactory to the Village, and shall name the Village as a primary co-obligee. The Contract Bond shall become a part of the Contract Documents. The failure of Contractor to supply the required Contract Bond within ten (10) days after the Notice of Award or within such extended period as the Village may grant if the Contract Bond does not meet its approval shall constitute a default, and the Village may either award the Contract to the next lowest responsible proposer or re-advertise for proposals. A charge against the defaulting Contractor may be made for the difference between the amount of the

Contractor's Proposal and the amount for which a contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the proposal guarantee.

18. GOVERNING LAW AND VENUE

This Contract shall be governed by the laws of the State of Illinois both as to interpretation and performance. Venue for any action pursuant to this Contract shall be in the Circuit Court of Cook County, Illinois.

19. AMENDMENTS AND MODIFICATIONS

This Contract may be modified or amended from time-to-time provided, however, that no such amendment or modification shall be effective unless reduced to writing and duly authorized and signed by the authorized representative of the Village and the authorized representative of the Contractor.

20. NON-WAIVER OF RIGHTS

No failure of either party to exercise any power given to it hereunder or to insist upon strict compliance by the other party with its obligations hereunder, and no custom or practice of the parties at variance with the terms hereof, nor any payment under this Contract shall constitute a waiver of either party's right to demand exact compliance with the terms hereof.

21. CONFLICT

In case of a conflict between any provision(s) of the Village's Request for Proposals or the Contractor's Proposal and this Contract, this Contract and the Village's Request for Proposals shall control to the extent of such conflict.

22. HEADINGS AND TITLES

The headings and titles provided in this Contract are for convenience only and shall not be deemed a part of this Contract.

23. COOPERATION OF THE PARTIES

The Village and the Contractor shall cooperate in the provision of the Work to be provided by Contractor pursuant to this Contract and in compliance with applicable laws, including, but not limited to, the Illinois Freedom of Information Act, 5 ILCS 140/1 et seq. ("FOIA"), and the provision of any documents and information pursuant to a FOIA request. The Contractor shall provide any and all documents to the Village pursuant to a FOIA request at no cost to the Village.

24. COUNTERPARTS; FACSIMILE OR PDF SIGNATURES

This Contract may be executed in counterparts, each of which shall be considered an original and together shall be one and the same Contract. A facsimile or pdf copy of this Agreement and any signature(s) thereon will be considered for all purposes as an original.

25. CERTIFIED PAYROLL

Contractor shall be solely responsible to maintain accurate records reflecting its payroll for its employees who perform any of the Work for the Village pursuant to this Contract and shall submit certified payroll records to the Village's Director of Public Works at any time during the term of this Contract. Contractor shall provide said certified payroll records within seven (7) days upon the request of the Director of Public Works.

26. PREVAILING WAGE

Contractor and any applicable subcontractor shall pay prevailing wages as established by the Illinois Department of Labor and determined by the Village for each craft or type of work needed to execute the contract in accordance with the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 *et seq.* ("Act"). Contractor shall prominently post the current schedule of prevailing wages at the Project site(s) and shall notify immediately in writing all of its subcontractors of all changes in the schedule of prevailing wages. Any increases in costs to Contractor due to changes in the prevailing rate of wage during the terms of any Contract shall be at the sole expense of Contractor and not at the expense of the Village, and shall not result in an increase to the Contract Price. Contractor shall be solely responsible to maintain accurate records as required by the Act and shall submit certified payroll records to the Village evidencing its compliance with the Act on no less than a monthly basis as required by the Act. Contractor shall be solely liable for paying the difference between prevailing wages and any wages actually received by laborers, workmen and/or mechanics engaged in the Work for the Project.

Contractor shall indemnify, hold harmless, and defend the Village, its officers, officials, employees, agents and volunteers ("Indemnified Parties") against all regulatory actions, complaints, damages, claims, suits, liabilities, liens, judgments, costs and expenses, including reasonable attorney's fees, which may in any way arise from or accrue against the Indemnified Parties as a consequence of noncompliance with the Act or which may in any way result therefrom, including a complaint by the Illinois Department of Labor under Section 4(a-3) of the Act, 820 ILCS 130/4(a-3) that any or all of the Indemnified Parties violated the Act by failing to give proper notice to the Grantee or any other party performing work on the Public Improvements that not less than the prevailing rate of wages shall be paid to all laborers, workers and mechanics performing Work on the Project, including interest, penalties or fines under Section 4(a-3). The indemnification obligations of this section on the part of Contractor shall survive the termination or expiration of this Agreement. In any such claim, complaint or action against the Indemnified Parties, Contractor shall, at its own expense, appear, defend and pay all

charges of reasonable attorney's fees and all reasonable costs and other reasonable expenses arising therefrom or incurred in connection therewith, and, if any judgment or award shall be rendered against the Indemnified Parties in any such action, Contractor shall at its own expense, satisfy and discharge such judgment or award.

**[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK -
SIGNATURE PAGE FOLLOWS]**

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be signed by their duly authorized representatives on the days and dates set forth below.

VILLAGE OF OAK PARK

CONTRACTOR

By:
Its: Village Manager



By: Pete Moraitis
Its: GM/ Secretary

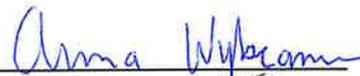
Date: _____, 2023

Date: 12/14, 2023

ATTEST

ATTEST

By:
Its: Village Clerk



By: ANNA WYBRANIEC
Its: OFFICE MANAGER

Date: _____, 2023

Date: 12/14, 2023



Office of the Secretary of State
 ilsos.gov

Business Entity Search

Entity Information

Entity Name	OMNI PUMP REPAIRS, INC.		
File Number	53797652	Status	ACTIVE
Entity Type	CORPORATION	Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	03-28-1985	State	ILLINOIS
Duration Date	PERPETUAL		
Annual Report Filing Date	03-20-2023	Annual Report Year	2023
Agent Information	DENIS MORAITIS 9224 CHESTNUT AVE FRANKLIN PARK ,IL 60131	Agent Change Date	04-18-1995

Services and More Information

Choose a tab below to view services available to this business and more information about this business.

[Purchase Master Entity Certificate of Good Standing](#)

[Change of Registered Agent and/or Registered Office](#)

[Articles of Amendment Effecting A Name Change](#)

[Adopting Assumed Name](#)