HTE# 07-5-17702R

Harnett County Department of Public mealth 24562

Improvement Permit

A building permit cannot be issued with only an Improvement Permit PROPERTY LOCATION: 40/ SUBDIVISION Spence MillIng Park ISSUED TO: Jaron Kolerar Site Improvements required prior to Construction Authorization Issuance: Type of Structure: Education Blog. 2800 ft2 Proposed Wastewater System Type: 25 % Robertion chief alterating fields GPDMAX 69 Number of Occupants: 90 studings Number of bedrooms: Basement Yes ☐ May be required based on final location and elevations of facilities Pump Required: Tes ☐ No Type of Water Supply:

Community Public Well Distance from well feet Five years Permit valid for: ■ No expiration Permit conditions: SEE ATTACHED SITE SKETCH Authorized State Agent:: The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. Construction Authorization (Required for Building Permit) The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958 and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout. PROPERTY LOCATION: 40/
SUBDIVISION Speace Mill Ind Jack

New Expansion
Repair ISSUED TO: Jason Kolesar Facility Type: Eduction Blan 2500 ft2 Basement Fixtures?

Yes ☐ No Type of Wastewater System** Wastewater Flow: 570 GPD (Initial) (See note below, if applicable) _(Repair) Installation Requirements/Conditions Septic Tank Size Existy + 2000
Pump Tank Size 2000 gallons Exact length of each trench 2x/65 feet Trenches shall be installed on contour at a Maximum Trench Depth of: /2 inches (Maximum soil cover shall not exceed (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom) in all directions) Pump Requirements: ft. TDH vs. inches below pipe inches above pipe Conditions: See Attachments for specification + layout I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit. ** If applicable: Owner/Legal Representative Signature: This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization, is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. Date: 2/25/2005

Construction Authorization Expiration Date: Z/25/2017 Authorized State Agenta

HAL WEN & ASSOCIATES. IC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 E-mail: halowen@earthlink.net

30 January, 2008

Mr. Bryan McSwain Harnett County Environmental Health Division 307 Cornelius Harnett Blvd Lillington, NC 27546

Reference: Septic System Expansion for Jonathan's House School

Dear Mr. McSwain.

A site investigation was conducted for the above referenced property located on the western side of US 401, Buckhorn Township, Harnett County, North Carolina. The purpose of the investigation was to determine the ability of this property to support expansion and modification to the subsurface sewage waste disposal system for a small private school facility. All sewage disposal ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval by the local Health Department.

Existing Facility and Client Proposals

The existing facility, Jonathan's House, is a licensed school with a current enrollment of 40 students and 9 full-time teacher/staff positions. Typical hours of operation for the school are from 9:00 am to 2:30 pm Monday through Friday. The school has neither a cafeteria nor shower. Our clients wish to increase student enrollment and teaching/staff positions by twice their existing numbers. A new building is proposed to be constructed to accommodate additional students.

Determination of the Adjusted Daily Sewage Flow

An adjusted design daily sewage flow was determined using total monthly water consumption for 12 consecutive months and 30 consecutive daily water consumption readings, supplied by the Harnett County Public Utilities and the client, as specified by rule 15A NCAC 18A.1949(c)(1) (See attachments 1 and 2). A peaking factor of 1.26 was calculated by dividing a total water usage measurement of 4800 gallons (achieved in November 2006 and June 2007) by 3800 gallons, the total monthly water usage during the 30 consecutive daily measurements (See Attachment 3). It should be noted that the monthly reading of 6200 total gallons for August 2007 was determined to be an outlier due to a running toilet and therefore was excluded for calculation of the adjusted design daily sewage flow. Rule 15A NCAC 18A.1949(c)(1) outlines that the adjusted design daily sewage flow be determined by taking the numerical average of the greatest ten percent of the daily readings and multiplying by the peaking factor. However, due to the fact that the water meter at the site measures water usage in 100-gallon increments, the

average daily water consumption per school day was calculated for each month and the highest value used in place of the average of the greatest ten percent (Table 1). Again it should be noted that data for August 2007 was excluded from all calculations. A value of 224 gallons per school day was multiplied by the calculated peaking factor of 1.26 and an adjusted design daily sewage flow of 282 gallons per day was calculated (See Attachment 3). The average daily water usage was calculated at 5.76 gallons per person and was rounded up to 6.0 gallons per person.

Existing System and proposed expansion

The existing system is composed of 2 x 165-ft of EEE-ZZZ Lay accepted system drainline. Soil LTAR was determined by the Harnett Local Health Department to be 0.3 gal/day/sqft with a trench LTAR of 0.4 gal/day/sqft. This amount of drainline would allow for 396 gallons per day of sewage flow for the existing system. However, if the proposed facility is constructed and the current enrollment is increased by two, the existing system will not support the additional daily wastewater flow. Furthermore, there is inadequate usable soil area to modify the size of the existing system to accept the increase in wastewater flow and also inadequate usable soil area to 100% repair the existing system if it should fail. There is however an adequate amount of usable soil area located adjacent to US 401 to double the total amount of drainline in the existing system and therefore have two separate and equally sized nitrification fields. By installing 330-ft of accepted system drainline, each nitrification field would technically be sized at 75% of the total area required for a single field and under rule 15A NCAC 18A.1955 (p) would not need a repair area. A Zoeller 4000 series automatic multizone diversion valve will be utilized to alternate distribution of wastewater between the two nitrification fields.

Nitrification field A would include the existing system consisting of a 1000-gallon septic tank and the 2 x 165-ft of accepted system drainline (see attached site plan). Nitrification field B would consist of 330-ft of accepted system drainline installed ultra shallow with pressure manifold distribution. A 2000-gallon septic tank will be used commonly between the existing building and the proposed building for collection of all generated wastewater and a common 2000-gallon pump tank utilized to properly transport wastewater. The large septic tank will allow for more storage and initially a longer period of rest for the existing system. It is proposed that the existing septic tank associated with Nitrification field A be utilized so that wastewater is alternately pumped into the existing septic tank and subsequently transported to the existing drainlines. The Zoeller 4000 series automatic multizone diversion valve would need to be placed at an elevation higher than the commonly shared pump tank, existing septic tank and the pressure manifold for Nitrification field B to allow for wastewater to drain away from the diversion valve. The multizone diversion valve assembly would require clear schedule 40 pvc inspection pipes for the first foot of distribution lines leaving the valve as well as a Zabel A300 Commercial Filter installed in the commonly shared septic tank.

With utilization of the existing septic system and installation of the proposed system along with the accompanying water usage data, it appears that this system expansion is adequate to allow for no more than 130 students/teachers/staff. However, due to the marginal soils observed at the site and the wide range of wastewater flows observed from the existing facility, it is conservatively recommended that total occupancy of the two facilities not exceed 95 students/teachers/staff.

Attached is the septic system layout and supporting information for this facility. I trust that this report provides all the information that you require at this time. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,

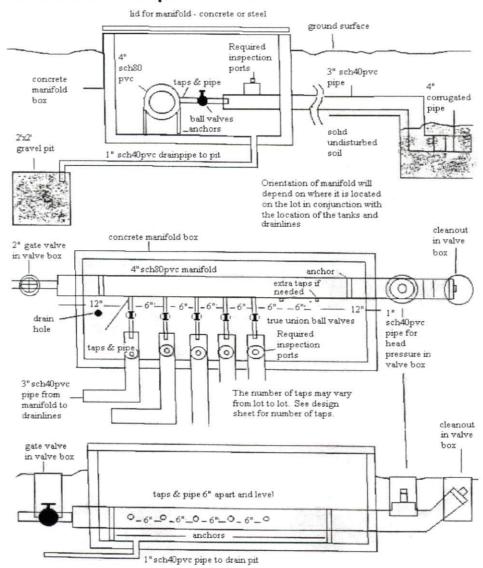
John C. Roberts Licensed Soil Scientist

John C Rolect

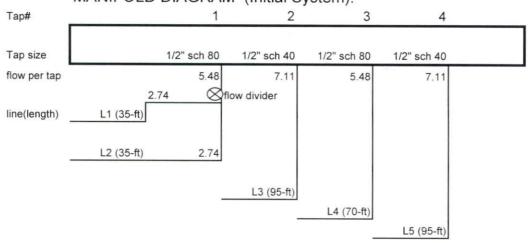
Pressure Manifold Design Criteria for Nitrification Area A

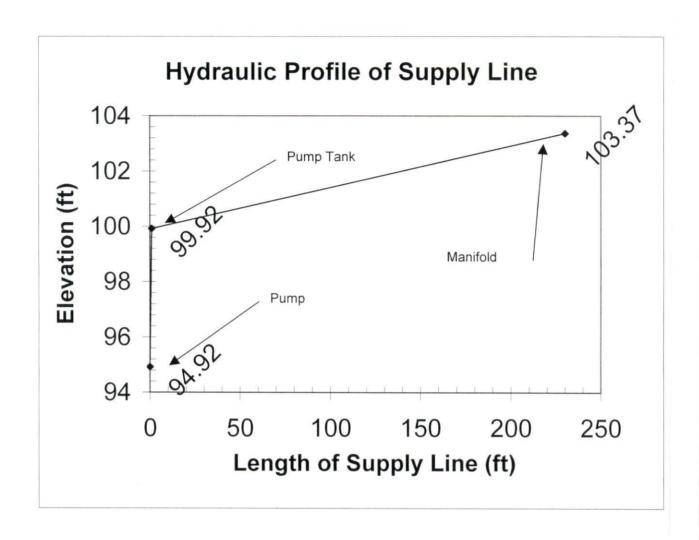
		Jason Kole				Phone #:	919-567-16	26
Mailin	g Address:	PO Box 42	Kipling, NC 2754	13				
		•					Lot#:	
Site A	Address:	15 Randy C	Court Kipling, NC	27543		-		
					Daily Flow:			
Se		2000			Pump Tank:			
		0.3	National Contract of the Contr	Т	rench LTAR:	0.4	gpd/sqft	
tmt. o	f Drainline:	990	sqft		or	330	linear ft	
				Depth (in):			Depth (in):	12
SUPF	PLY LINE	Length (ft):	230	Diameter:	2" sch 40 pv			
MANI	FOLD	Length (ft):	3.5	Diameter:	4" sch 80 pv		Elevation:	103.37
				Tap Configuration				
T	Ch							
тар	Chart	D-I-ti-	D. :-1: 1	T 0: /	n / \]		LTAR + 5%=	0.42
Line	Color	Relative Elevation	Drainline Length(ft)	Tap Size/ Schedule	flow (gpm) per tap	and	Trench Area	LTAR
1	Y					gpd 43.00		gpd/sqft
_		100.55	35	FD 1/2" sch 80	2.74	43.09	105	0.410
2	R	100.81	35	FD 1/2" sch 80	2.74	43.09	105	0.410
3	B	101.21	95	1/2" sch 40	7.11	111.82	285	0.392
4	W	101.62	70	1/2" sch 80	5.48	86.18	210	0.410
5	Υ	102.37	95	1/2" sch 40	7.11	111.82	285	0.392
6								
7								
8								
9								
	Tota	al Drainline:	330	Total Flow:	25.18	Sq. Foot:	990.00	
Calc	ulations							
			gallana with Din	o Valumo at 0/	75			
				e Volume at %		(!-)	45.70	
		Time (min)		Name of the last o	Pump Run Tii			
Diaw	down:	162 gallor	ns divided by	27	gal/ inch =	5.99	inches	
Pumr	Tank Elev	vation (ft):	99.92	Pumn F	Elevation (ft):	94 92		
	on Head:	14.26		th + 70' for fittings			or zana valv	٥)
	tion Head:	8.45	Design Head:	_		tal Head:		
Lieva	illon neau.	0.43	Design Head.	2	10	пат пеац.	24.71	feet
Pump	to Deliver	25.18	gpm @	24.71	ft head			
Simple	lev Control	Panel /S IE	Phombus 112 or	r oqual) with alana	ad time meta	r ovolo	untor ala	•
				r equal) with elaps		57 1.70		1,
				loats to be determ	ined by type	or pump to	ank used.	
. S.			ommercial) is red	<u>*2</u>		7	100 - :	
russi	ible Pumps	include:	Hydromatic:	SHEF 50 series		Zoeller:	163 series	

Pressure Manifold Requirements

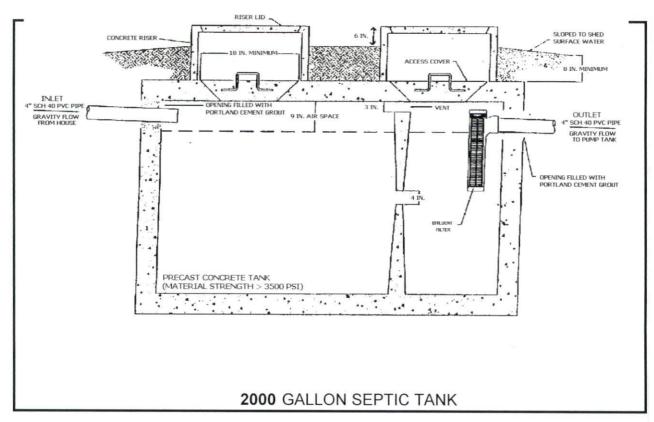


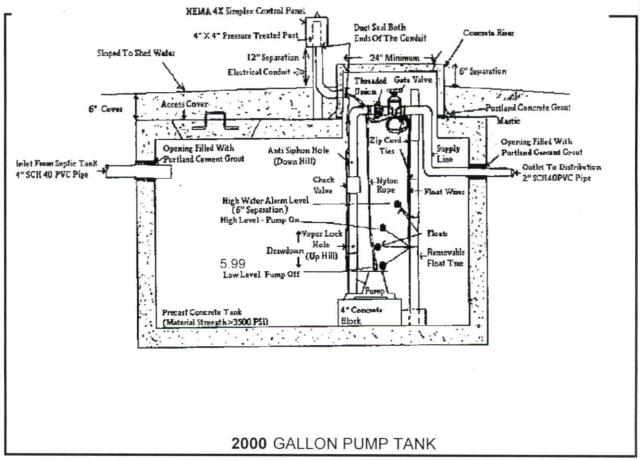
MANIFOLD DIAGRAM (Initial System):





	Distance	Elevation
Pump Elevation	0	94.92
Pump Tank Elevation	1	99.92
manifold	230	103.37
4)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		

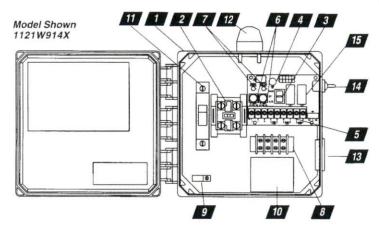




MODEL 112 Control Panel

Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single-phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



- Enclosure measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
 - * Options selected may increase enclosure size and change component layout.
- 2. Magnetic Motor Contactor controls pump by switching hot electrical lines.
- HOA Switch for manual pump control (mounted on circuit board).
- Green Pump Run Indicator Light (mounted on circuit board).
- 5. Float Switch Terminal Block (mounted on circuit board).
- 6. Alarm and Control Fuses (mounted on circuit board).
- 7. Alarm and Control Power Indicators (mounted on circuit board).
- 8. Pump Input Power and Pump Connection Terminal Block
- 9. Ground Lug
- 10. Terminal Block Installation Label

11. Circuit Breaker (optional) provides pump disconnect and branch circuit protection. required (2X)

STANDARD ALARM PACKAGE (other options available)

- Red Alarm Beacon provides 360° visual check of alarm condition.
 Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
 - Note: NEMA 1 style utilizes an internally mounted buzzer (83 to 85 decibel) in lieu of horn.
- 14. Exterior Horn Test/Normal/Silence Switch allows alarm horn to be silenced and testing of horn and light to ensure proper operation of alarm system.
- Horn Silence Relay automatically resets alarm after alarm condition has been resolved (mounted on circuit board).



indoor

indoor/outdoor

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

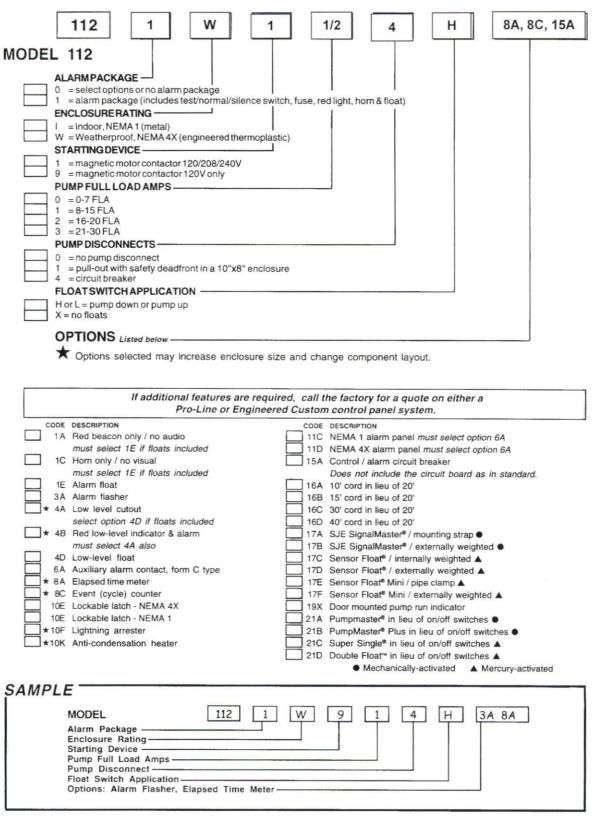




PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: sje@sjerhombus.com

www.sjerhombus.com



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ENGINEERING DETAILS - SHEF50/100

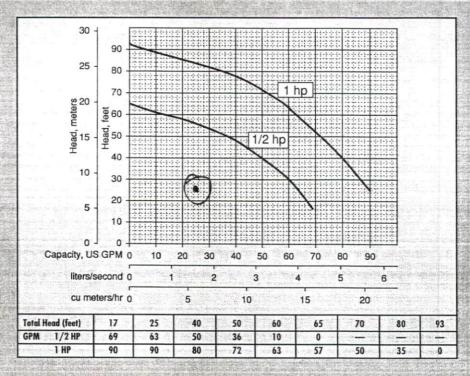
Pump Characteristics

Pump/Motor Unit	in mid-	S	ubmersib	le			
Manual Models (50)	MI	M2	M3	M4	M5		
Automatic Models	Al	A2	-	-	-		
Horsepower	43		1/2	1924 T	4 2 4		
Full Load Amps	15.0	7.6/7.1	3.2/3.1	1.6	1.2		
Motor Type	Capacit	or Start		30	o sie		
R.P.M.	15 100		3450	16.00			
Phase	1	Ø		30			
Voltage	115	208-230	208-230	460	575		
Manual Model (100)	7 2	M2	M3	M4	M5		
Automatic Models	History	A2	. Okar		die.		
Horsepower	College Control to the College						
Full Load Amps	1 100	13.6/12.1	6.0/5.8	2.8	1.9		
Motor Type	Capacit	or Start	3 Ø				
RPM	Marin.		3450	4			
Phase	1	Ø	The sale	30	SA THE		
Voltage	100 - 100 m	208-230	208-230	460	575		
Hertz	Naj-		60	317-14	4.00		
Temperature	USAS Y	140° F	Max Flui	d Temp.	100 miles		
NEMA Design	CONTRACTOR OF	Large	В				
Insulation	1 200	7-1-5	Class B		9-7-4		
Discharge Size	2" NPT Std.						
Solids Handling	3/4"						
Unit Weight	58 lb	s. (50)	65 lbs. (100				
Power Cord	115V, 14/3, SJTW-A; 230V, 1o, 16/3 STW-A; 3o, 16/4, STW-A, All cords 20' std. with 30' opt.						

Materials of Construction

Handle	Stainless Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel Bellows: Buna-N
Impeller	Engineered Thermoplastic
Upper Bearing	Single Row Ball Bearing
Lower Bearing	Single Row Ball Bearing
Bottom Plate	Polyester Coated Steel
Fasteners	Stainless Steel
Legs	Engineered Thermoplastic

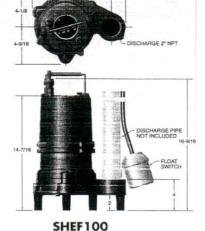
Performance Data



Dimensional Data

- 1. All dimensions in inches.
- 2. Component dimensions may vary +/- 1/8 inch.
- 3. Not for construction purposes unless certified.
- 4. Dimensions and weights are approximate.
- 5. We reserve the right to make revisions to our products and their specifications without notice.
- 6. Float switch (automatic models only).





AURORA/HYDROMATIC Pumps, Inc.

1840 Baney Road, Ashland, Ohio 44805 (419)289-3042

"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies







SECTION: 2.20,050

FM0460

Supersedes

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road . Louisville, KY 40211-1961 (502) 778-2731 · 1 (800) 928-PUMP · FAX (502) 774-3624

visit our web site: http://www.zoeller.com

COMPARE THESE FEATURES

- · Non-clogging bronze vortex impeller design.
- Durable cast construction. Cast iron switch case, base, motor and pump housing.
- Castings Cast iron class 25-30 (25,000# tensile strength). Impeller, bronze class 85-5-5-5.
- Corrosion resistant powder coated epoxy finish.
- 20 foot UL listed 3-wire neoprene cord and plug. Longer cords available in lengths of 25-35-50 feet.
- Automatic reset thermal overload protection. (1 Ph only).
- Oil-filled motor hermetically sealed.
- · Carbon and ceramic shaft seal.
- · Maximum temperature for effluent or dewatering, 130° F. - 54° C. (ED 140° F. - 60° C).
- 3450 RPM, 60 cycle.
- Major width 123/4". Height 189/16". (Single seal pumps)
- No screens to clog.
- Square Ring & Gasket Neoprene.
- Bearings Lower ball & upper sleeve.
- Stainless steel screws, bolts, float rod, handle guard, arm and seal assembly.
- Passes ¾ spherical solids.
- 11/2" NPT discharge with 2" or 3" flange available.
- Automatic units available with float operated, submersible (NEMA 6) 2 - pole mechanical switch. On point 143/4" - Off point 5".
- · Available in single or double seal designs.
- · 100% of units are computerized tested.

MODELS 4161-4163-4165 **DOUBLE SEAL PUMPS** (Nonauto only)

- Protects motor from seal leaks.
- Improved bearing lubrication.
- Helps eliminate seal and bearing damage from dry runs.
- Major width 12³/₄". Height 20⁷/₁₆".

Note: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles.

AUTOMATIC UNITS NOT RECOMMENDED FOR USE IN EFFLUENT SYSTEMS.

161 - 163 - 165 Single Seal Series 4161 - 4163 - 4165 Double Seal Series

(For Pump Prefix Identification see News & Views 0052)



HIGH HEAD "FLOW-MATE"

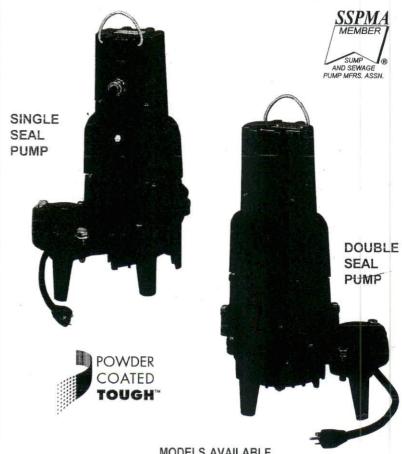




FOR SEPTIC TANK • LOW PRESSURE PIPE (LPP) AND ENHANCED FLOW STEP SYSTEMS

EFFLUENT

OR DEWATERING PUMP • SUBMERSIBLE 11/2" NPT DISCHARGE STANDARD • 2" AND 3" NPT FLANGE AVAILABLE

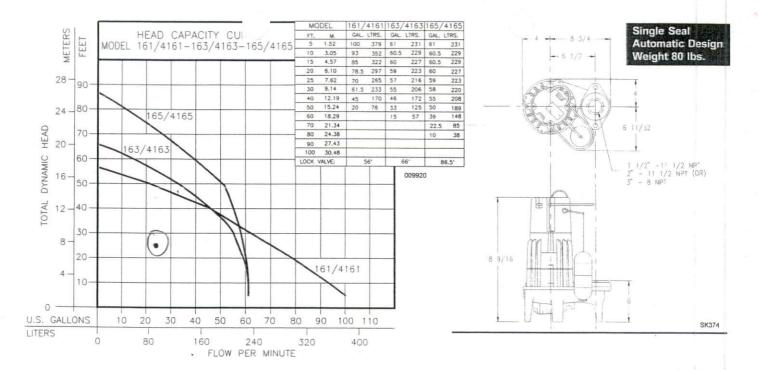


MODELS AVAILABLE

· Automatic (Single Seal Only) or Nonautomatic

161-163 and 4161-4163 Series

- ½ H.P., 1 Ph, 115V, 200-208V or 230V
- ½ H.P., 3 Ph., 200-208V, 230V or 460V
- 165 and 4165 Series
- 1 H.P., 1 Ph., 200-208V or 230V
- 1 H.P., 3 Ph., 200-208 230V or 460V



Standard all models - 20 ft. cord - 1/2 H.P.

161 MODELS	4161 MODELS				Control S	election		Listin			
Single Seal	Double Seal	Volts -	Ph	Mode	Amps	Simplex	Duplex	CSA	UL		
M161		115	1	Auto	15.5			Y	Y		
N161	N4161	115	1	Non	15.5		3 or 5 & 6	Y	Y(1)		
D161		230	1	Auto	7.5			Y	Y		
E161	E4161	230	1	Non	7.5		3 or 5 & 6	Y	Υ		
* H161		200-208	1	Auto	8.8			Y	N		
* 1161	* 14161	200-208	1	Non	8.8		3 or 5 & 6	Y	N		
* J161	* J4161	200-208	3	Non	6.4	4 & 6	3 & 4 or 5 & 6	Y	Y		
* F161	* F4161	230	3	Non	5.2	4 & 6	3 & 4 or 5 & 6	Y	Y		
* G161	* G4161	460	3	Non	2.9	4 & 6	3 & 4 or 5 & 6	Y	Y		

Standard all models - 20 ft. cord - 1/2 H.P.

163 MODELS	4163 MODELS		Control Selection					Listing	
Single Seal	Double Seal	Volts -	Ph	Mode	Amps	Simplex	Duplex	CSA	UL
M163		115	1	Auto	15.0			Y	Y
N163	N4163	115	1	Non	15.0		3 or 5 & 6	Y	Y(1)
D163		230	1	Auto	7.5			Y	Y
E163	E4163	230	1	Non	7.5		3 or 5 & 6	Y	Y
* H163		200-208	1	Auto	8.5			Y	N
* 1163	* 14163	200-208	1	Non	8.5		3 or 5 & 6	Y	N
* J163	* J4163	200-208	3	Non	6.0	4 & 6	3 & 4 or 5 & 6	Y	Y
* F163	* F4163	230	3	Non	4.8	4 & 6	3 & 4 or 5 & 6	Y	Y
* G163	* G4163	460	3	Non	2.9	4 & 6	3 & 4 or 5 & 6	Y	Y

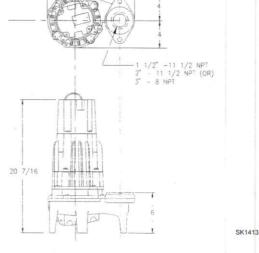
Standard all models - 20 ft, cord - 1 H.P.

165 MODELS	4165 MODELS	Control Selection							tings
Single Seal	Double Seal	Volts -	Ph	Mode	Amps	Simplex	Duplex	CSA	UL
D165		230	1	Auto	10.2			Y	Y
E165	E4165	230	1	Non	10.2		3 or 5 & 6	Y	Y
* H165		200-208	1	Auto	12.6			Y	N
* 1165	* 14165	200-208	1	Non	12.6		3 or 5 & 6	Y	N
* J165	* J4165	200-208	3	Non	7.5	4 & 6	3 & 4 or 5 & 6	Y	Y
* F165	* F4165	230	3	Non	7.4	4 & 6	3 & 4 or 5 & 6	Y	Y
* G165	* G4165	460	3	Non	3.7	4 & 6	3 & 4 or 5 & 6	Y	Y
* BA165	* BA4165	575	3	Non	3.0	4 & 6	3 & 4 or 5 & 6	N	N

- * No Molded Plug
- (1) UL listed unit available with 20 Amp plug.

For information on additional Zoeller products refer to catalog on Piggyback Variable Level Float Switches, FM0477; Electrical Alternator, FM0486; Mechanical Alternator, FM0495; Alarm Package, FM0732; and Sump/Sewage Basins, FM0487.





SELECTION GUIDE

- Integral float operated 2-pole mechanical switch, no external control required.
- Single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- 3. Mechanical alternator M-Pak 10-0072 or 10-0075. Refer to FM0495
- 4. Simplex three phase control panel. Refer to FM1228.
- 5. See FM0712 for correct model of Electrical Alternator.
- Variable level control switch 10-0225 used as control activator, specify simplex (3) float or duplex (3) or (4) float system.

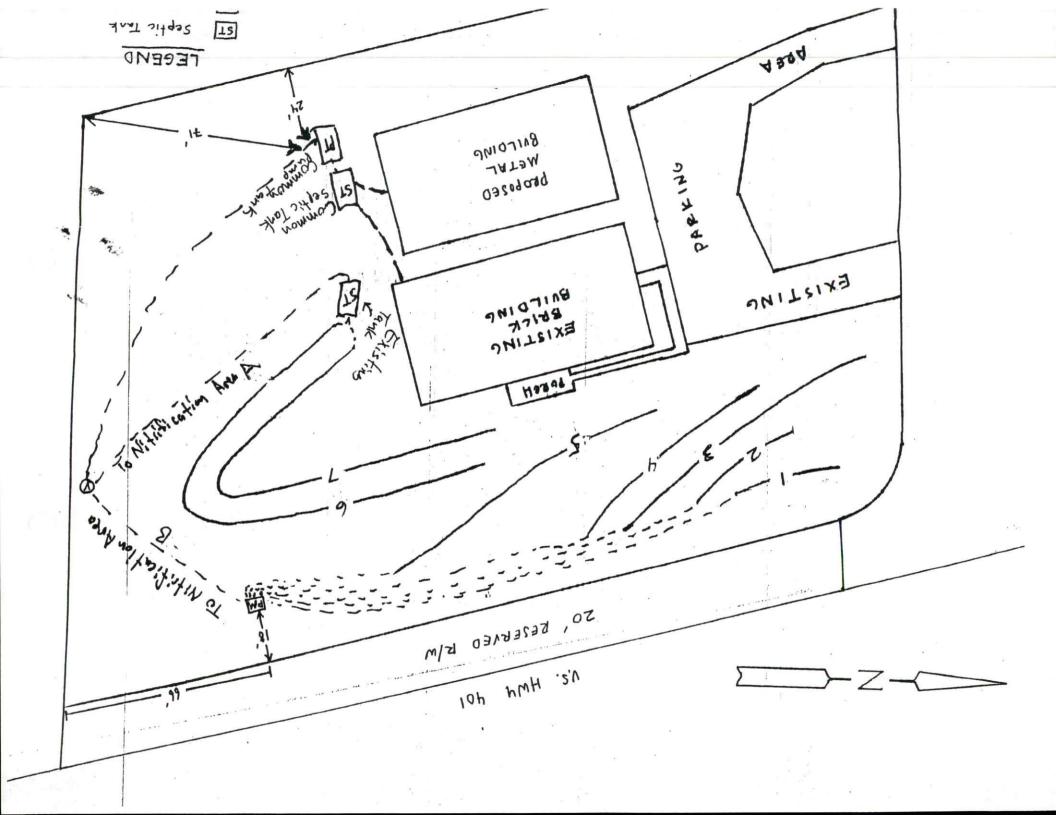
A CAUTION

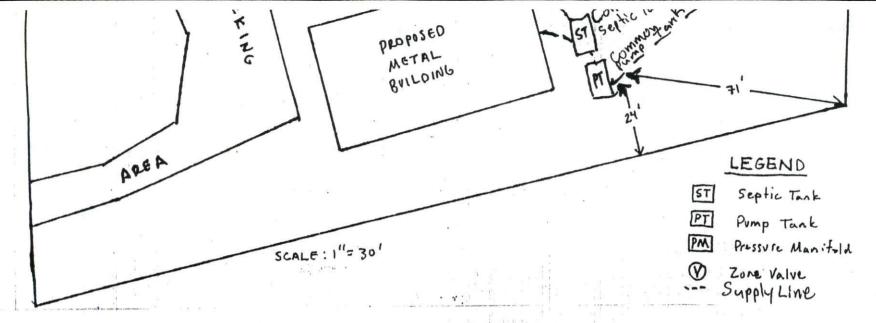
All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.

© Copyright 2000 Zoeller Co. All rights reserved.





All distances are Paced and Approximate.

Lines flagged at site on 9-ft centers

Nitrification Area A or B	Line#	Color	Drainline Length(ft)	Measured Field Line Length (ft)	Relative Elevation (ft)
Α	1	Υ	35	- 35	100.5
Α	2	R	35	54	100.81
Α	3	В	95	101	101.21
Α	4	W	70	- 70	101.62
Α .	5	Υ	95	109	102.37
В	6		165	165	102.66
В	7		165	165	102.62
Pump Tank:					99.92
Pressure Man	ifold			0	103.37
Multizon Vavl	е				103.81
		Total:	660	699	EIP = 100