HTE# 08-5-19474

Harnett County Department of Public Health

24906

Improvement Permit

A build	ing permit cannot be issued w			
0 5	PROPERTY LOC	CATION: VIC Y	ITH KS	
	SUBDIVISION			FOT # 11
NEW X REPAIR ☐ EXPANSION ☐ Type of Structure: _SFO(60'×60')	_	Site Improvements	required prior to Construction	Authorization Issuance:
Proposed Wastewater System Type: Pume To 25%	People = 1 min			
Projected Daily Flow: 480 GPD	TREPICTION			
Number of bedrooms: Number of Occupants:	% max .			
Basement Yes No	max			
	ased on final location and elev	vations of facilities		
Type of Water Supply: Community Public	Well Distance from well	LOO feet	Permit valid	for: Five years
Permit conditions: PERMIT BROKED ON PROC	POSAL FROM APPLICE	ants Soil C	TAP IL UEND	_ □ No expiration
				- F
		++		
Authorized State Agent::	Date:			SEE ATTACHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarantees the site is subject to revocation if the site plan, plat, or the intended use changes	te issuance of other permits. The perm	nit holder is responsible for	checking with appropriate governing	bodies in meeting their requirements. This
the Laws and Rules for Sewage Treatment and Disposal and to conditions of the	is permit.	e anected by a change in o	wnersnip of the site. This permit is s	ubject to compliance with the provisions of
	Construction Au	uthorization		
The construction and installation requirements of Rules .1950, .1952, .1954, .1	(Required for Build 1959 1956 1959		can into this parmit and shall be used	Contrary shall be installed in accordance
with the attached system layout.	793, 11730, 11731, 11730. and 11737	are incorporated by referen	ces into this permit and small be me	. Systems shall be installed in accordance
WHEN TO POW FLOWERS			V 0	
1220ED 10: 140F / FAMESCA	PROPERT SUBDIVIS	Y LOCATION:	C NETH KD	
Facility Type: SED (GO'×GO') Basement? Yes No Basement Fixtures?		ION DOLLEY	o layes	LOT # <u>472)</u>
Facility Type:	New 🗆 Expar	nsion 🗌 Repa	ir	
Basement? Yes No Basement Fixtures?				1 >
•	5% REDUCTION		(Initial) Wastewater	flow: 480 GPD
(See note below, if applicable □)	· · · · · · · · · · · · · · · · · · ·			
	AC 18A . 1945(C)	(Kepair)		
	mber of trenches $\frac{5}{}$		9	
	act length of each trench 56		Trench Spacing: 9 Soil Cover: 6	Feet on Center
·	nches shall be installed on			
	ximum Trench Depth of:		s (Maximum soil cover	shall not exceed
(Tro	ench bottoms shall be level	to +/-1/4"	36" above the tren	ch bottom)
	all directions)			
Pump Requirements: 15.12 ft. TDH vs. 30.66 GP	M		-	inches below pipe
٠	0	- \	Aggregate Depth:	inches above pipe
Conditions: Follow Aze Conorrous A	up Paraneters	INDAINA UC	<u> </u>	inches total
Personal				
**If applicable: / understand the system type specified is di	ifferent from the type specif	ied on the application	on. I accept the specificatio	ns of this permit.
, , ,	,, ,	,,	, ,	γ
Owner/Legal Representative Signature:			Date:	
This Construction Authorization is subject to revocation if the site plan, plat, or	the intended use changes. The Constri	uction Authorization shall no		nge in ownership of the site. This
Construction Authorization is subject to compliance with the existing of the La	ws and Rules for Sewage Treatment a	nd Disposal and to the con-	ditions of this permit.	SEE ATTACHED SITE SKETCH
Authorized State Agent:	£5	Date	· 6/1x/08	
Q	Construction Author		7 7 1 1	
	CONSTRUCTION AUDIO	neauvn expirativii	vaic. Give in	· ·

421Lot, Buffalo LakesSubdivision

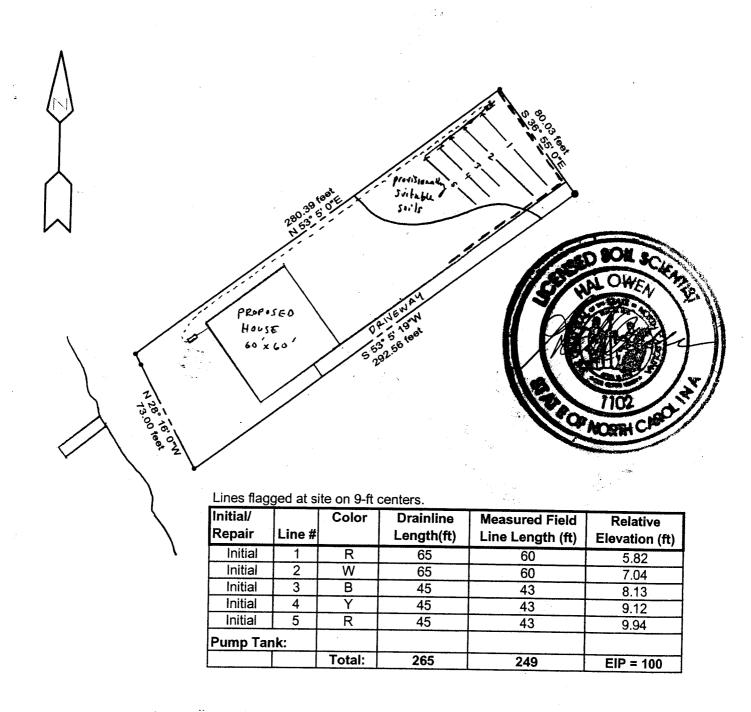
On-Site Wastewater Design Specifications

House Footprint:60' x 60' Foundation Drain Possible Bedrooms:4 (Daily Flow 480 gallons)

Initial System: Pressure Manifold L1-L5 249' of accepted status drainline installed on contour at 12 inches Soil LTAR 0.5 gpd/sf

60.00 feet

curtain Arain : - - -



Pressure Manifold Design Criteria

Initial System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/ Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
11	R	5.82	60	1/2"sch 40	7.11	1.855	0.618
2	W	7.04	60	1/2"sch 40	7.11	1.855	0.618
3	В	8.13	43	1/2"sch 80	5.48	1.995	0.665
4	Υ	9.12	43	1/2"sch 80	5.48	1.995	0.665
5	R	9.94	43	1/2"sch 80	5.48	1.995	0.665

Total Drainline= 249 Total Flow= 30.66

Pressure Head (ft)= 2

Target LTAR= 0.67 gpd/sqft

LTAR + 5% _____0.70

Daily Flow= 480 Total Flow (

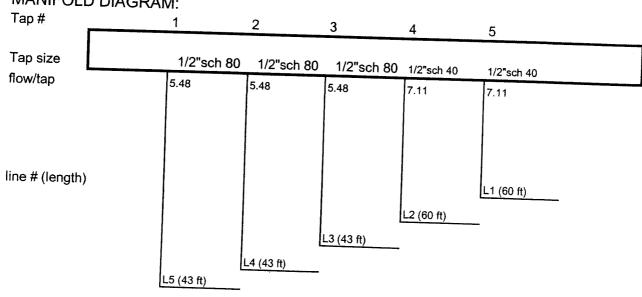
Total Flow (gpm)= 30.66

Daily PRT(min)= 15.66

Dose Vol= 121.95 gallons w/ Pipe Vol @% 75

Dose PRT (min)= 3.98

MANIFOLD DIAGRAM:



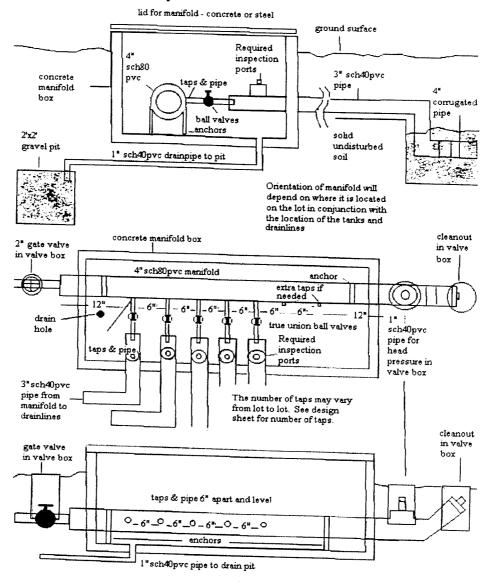
^{*} Soil LTAR 0.5 gpd/sf; convert for accepted system drainlines 0.5 /.75=0.667 gpd/sf

Pressure Manifold Design Criteria

App	olicant:	Paul Flaherty					Phono #: (010) 705 4007			
			133 Clayton, NC	Phone #: (919) 795-4287						
D#			: 9586-53-5080		es	Lot#	: 421			
Site	Address:									
	# Bedrooms		·		Daily Flov	v: 480	gallons			
		c: <u>1200</u>			: 1200	gallons				
LTAR: 0.5 gpd/sqft Effective (tr				trench) LTAR	2: 0.66667	gpd/saft				
y and of Brainfine. <u>720</u> sqπ							linear ft			
	NCHES	Length (ft):	see tap chart	Depth (in)	= Depth (in):	: na				
	PLY LINE	Length (ft):		Diameter:	2" sch 40 p	vc	· [= ···· (····)·			
MAN	NIFOLD	Length (ft):	4			Elevation:	6.82			
		# Taps	5	_Tap Configura	ation: 6in. spa	acing, 1 sig	e of manifo	0.02 ld		
Tan	Chart				•	0 ,	or marmo	iu .		
Line		T=1					LTAR + 5%=	0.70		
		Elevation	Length(ft)	Schedule	per tap	gpd/ft	Area	gpd/sqft		
1	R	5.82	60	1/2"sch 40	7.11	1.855	180	0.618		
3	W	7.04	60	1/2"sch 40	7.11	1.86	180	0.618		
	В	8.13	43	1/2"sch 80	5.48	2.00	129	0.665		
4	Y	9.12	43	1/2"sch 80	5.48	2.00	129	0.665		
5	R	9.94	43	1/2"sch 80	5.48	2.00	129	0.665		
							120	0.005		
1										
	Tota	l Drainline:	249	Total Flow:	30.66	Sq. Foot:	747.00			
Calc	ulations:		Min Dose Pump	Dun time in F	t - te	_				
			Min Dose Pump gallons, with Pipe		ninutes if pur	nping dow	nhill, change	pipe vol		
Dose I	- Pump Run Tin	ne (min):	3 08							
Dose Pump Run Time (min): 3.98 Daily Pump Run Time (min): 15.66 Drawdown: 122 gallons divided by 23 gal/ inch = 5.30 inches										
		· ganone	- divided by	23	gal/inch = _	5.30 j	nches			
Pump	Tank Elevatio	n (ft)·	0	D						
	n Head:			Pump El	evation (ft):_	-5				
(cappy line length + 70 for fittings in pump tank)										
		11.02	Design Head:	2	Tot	al Head: _	15.12 fe	et		
Pump t	to Deliver:	30.66	gpm @	15.12 ft	head					
Simple	Simpley Control Bonol (S.IF. Dhank L. 1997)									
and nu	Simplex Control Panel (SJE Rhombus 112 or equal) with elapsed time meter, cycle counter, alarm,									
party on separate circuits is required. Floats to be determined by type of pump tents used										
Possible Durant Late (22 or equal) is required.										
, Jasiph	o i umps incit	iue;	Hydromatic:			Zoeller:				

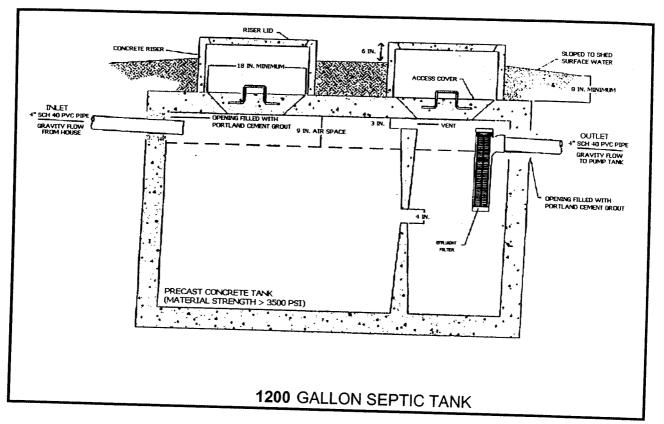
Prepared By: Hal Owen and Associates, Inc. PO Box 400, Lillington, NC 27546 Ph (910) 893-8743 / Fx 893-3594

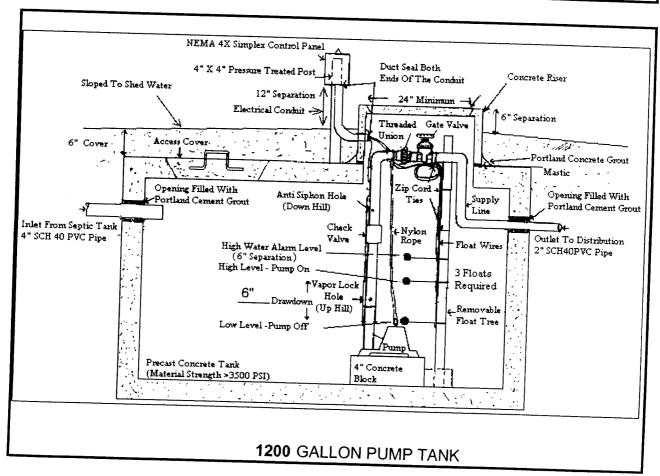
Pressure Manifold Requirements



MANIFOLD DIAGRAM (Initial System): Tap# 5 Tap size 1/2"sch 80 1/2"sch 80 1/2"sch 80 1/2"sch 40 1/2"sch 40 flow per tap 5.48 5.48 5.48 7.11 7.11 line(length) L1 (60 ft) L2 (60 ft) L3 (43 ft) L4 (43 ft) L5 (43 ft)

I to 80%

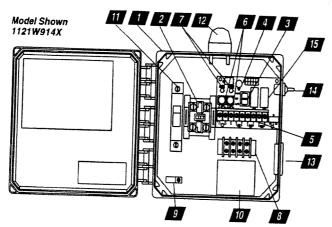




MODEL 112 Control Panel

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.
- 3. 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

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.
- 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

i⊓door/outdoor

FEATURES

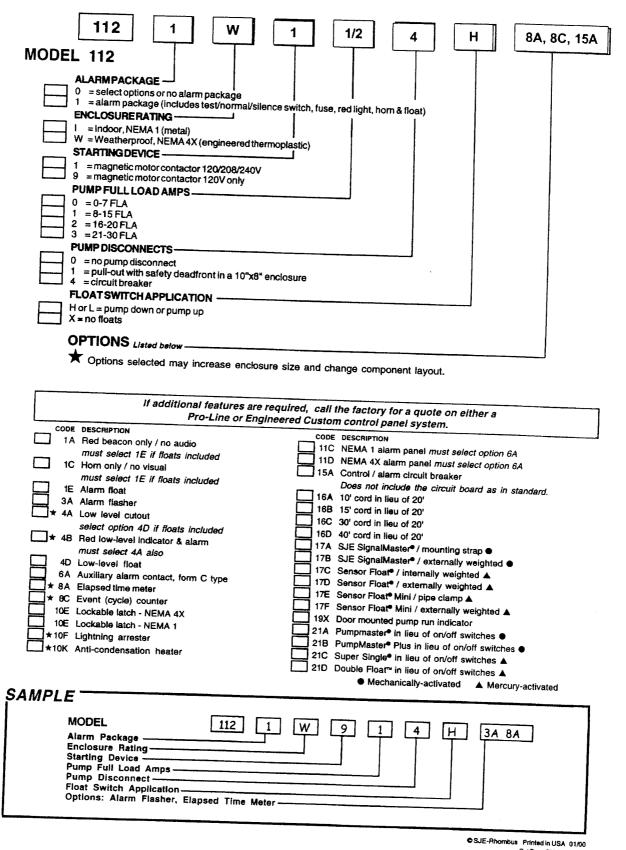
- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year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



Cat Page PN 10091818