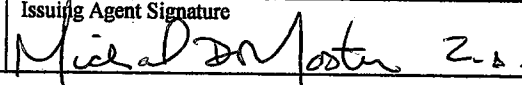


8626 cm

 commerce.wi.gov Wisconsin Department of Commerce		Safety and Buildings Division 201 W. Washington Ave., P.O. Box 7162 Madison, WI 53707-7162		County Sheboygan	
				Sanitary Permit Number (to be filled in by Co.) 516227 / 8626 cm	
Sanitary Permit Application In accordance with s. Comm. 83.21(2), Wis. Adm. Code, submission of this form to the appropriate governmental unit is required prior to obtaining a sanitary permit. Note: Application forms for state-owned POWTS are submitted to the Department of Commerce. Personal information you provide may be used for secondary purposes in accordance with the Privacy Law, s. 15.04(1)(m), Stats.				State Transaction Number 1490467	
				Project Address (if different than mailing address) N9263 Willow Rd	
I. Application Information - Please Print All Information					
Property Owner's Name Rodney Arpke				Parcel # 59004032050 T2 7 2.22 11.36 ac	
Property Owner's Mailing Address N-9263 Willow Road				Property Location Govt. Lot 1 NW 1/4, NW 1/4, Section 7 (circle one) T 16 N; R 22 E	
City, State Elkhart Lake Wi.		Zip Code 53020		Phone Number	
II. Type of Building (check all that apply) ☒ 1 or 2 Family Dwelling - Number of Bedrooms 3 ☐ Public/Commercial - Describe Use ☐ State Owned - Describe Use				Lot # Block # CSM Number	
				☐ City of ☐ Village of ☒ Town of Herman	
III. Type of Permit: (Check only one box on line A. Complete line B if applicable)					
A. ☐ New System		☒ Replacement System		☐ Treatment/Holding Tank Replacement Only	
				☐ Other Modification to Existing System (explain)	
B. ☐ Permit Renewal Before Expiration		☐ Permit Revision		☐ Change of Plumber	
				☐ Permit Transfer to New Owner	
				List Previous Permit Number and Date Issued NA 203	
IV. Type of POWTS System/Component/Device: (Check all that apply)					
☐ Non-Pressurized In-Ground ☐ Pressurized In-Ground ☒ At-Grade ☐ Mound ≥ 24 in. of suitable soil ☐ Mound < 24 in. of suitable soil					
☐ Holding Tank ☐ Other Dispersal Component (explain) ☐ Pretreatment Device (explain)					
V. Dispersal/Treatment Area Information:					
Design Flow (gpd) 450		Design Soil Application Rate (gpd/sf) 0.40		Dispersal Area Required (sf) 1125	
				Dispersal Area Proposed (sf) 1125	
				System Elevation 103.25	
VI. Tank Info		Capacity in Gallons		Total Gallons # of Units Manufacturer	
		New Tanks Existing Tanks			
Septic or Holding Tank		1000		1000 1 Ledgeview	
Dosing Chamber		500		500 Two Compartment tank	
				☒ PREFAB CONCRETE ☐ SITE CON-STRUCTED ☐ STEEL ☐ FIBER-GLASS ☐ PLASTIC	
VII. Responsibility Statement- I, the undersigned, assume responsibility for installation of the POWTS shown on the attached plans.					
Plumber's Name (Print) Kenneth Suchan		Plumber's Signature 		MPMPS Number 224182	
				Business Phone Number (920) 894-3696	
Plumber's Address (Street, City, State, Zip Code) 24219 C.T.H. X. New Holstein, Wi. 53061					
VIII. County/Department Use Only					
☒ Approved		☐ Disapproved Owner Given Reason for Denial		Permit Fee \$ 625.00	
				Date Issued 12.18.07	
				Issuing Agent Signature 	
IX. Conditions of Approval/Reasons for Disapproval See General Component Manual SBD-10570-P 2/6/99 Pressure Dispersal Component Manual SBD-10573-P 2/6/99 All waste water shall be directed into septic tank					

Attach to complete plans for the system and submit to the County only on paper not less than 8 1/2 x 11 inches in size

ENTERED

December 12, 2007

CUST ID No. 224182

ATTN: POWTS Inspector

KENNETH W SUCHAN
KENS SEPTIC SERVICE LLC
24219 CTH X
NEW HOLSTEIN WI 53061

PLANNING AND RESOURCES DEPARTMENT
SHEBOYGAN COUNTY SPIA
508 NEW YORK AVE
SHEBOYGAN WI 53081-4126

CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 12/12/2009

SITE:

Rodney Arpke
N9263 Willow Road
Town of Herman
Sheboygan County
NW1/4, NW1/4, S7, T16N, R22E

FOR:

Description: Replacement At-grade
Object Type: POWTS Component Manual Regulated Object ID No.: 1164969
Maintenance required; Replacement system; 450 GPD Flow rate; 38 in Soil minimum depth to limiting factor from original grade; System(s): At-grade Component Manual, SBD-10570-P (R.6/99), Pressure Distribution Component Manual, SBD-10573-P (R.6/99)

Identification Numbers
Transaction ID No. 1490467
Site ID No. 733173
Please refer to both identification numbers, above, in all correspondence with the agency.

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. This system is to be constructed and located in accordance with the enclosed approved plans and with the component manual(s) referenced above. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements.

No person may engage in or work at plumbing in the state unless licensed to do so by the Department per s.145.06, stats.

The following conditions shall be met during construction or installation and prior to occupancy or use:

- Due to energy losses in a 1.5 inch SCH 40 PVC lateral, the lateral diameter needs to be increased to 2.0 inches. Therefore, the Dose Volume (C) is altered from 93.9 gallons to 110.1 gallons (9.7 inches).

A copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation.

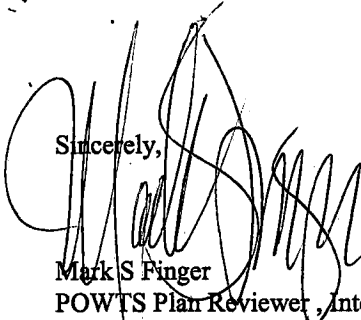
In granting this approval the Division of Safety & Buildings reserves the right to require changes or additions should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

The above left addressee shall provide a copy of this letter to the owner and any others who are responsible for the installation, operation or maintenance of the POWTS.

Conditionally
APPROVED
DEPARTMENT OF
DIVISION OF SAFETY & BUILDINGS
SEE CORRESPONDENCE

Sincerely,



Mark S Finger
POWTS Plan Reviewer, Integrated Services
(608) 261-7735, Fax: (608) 267-9566, M-f 7:00AM - 3:45PM
mark.finger@wisconsin.gov

Fee Required \$	175.00
Fee Received \$	175.00
Balance Due \$	0.00

WiSMART code: 7633

cc: Karl J Schultz, Wastewater Specialist, (920) 428-9719

RECEIVED

DEC 11 2007

SAFETY & BUILDINGS

RESIDENTIAL AT-GRADE DESIGN

Pressurized - Sloping Site INDEX AND TITLE SHEET

Project Rodney Arpke, 3 bedroom At -Grade System.

Owner Rodney Arpke

Address N-9263 Willow road.

Elkhart Lake, Wi. 53020

Legal Description NW1/4 NW1/4 Sec.7T16N/R22E.

Township Herman County Sheboygan

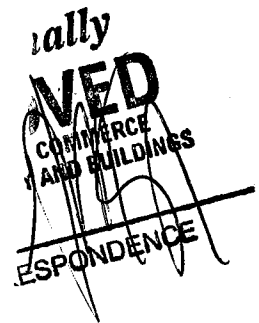
Subdivision Name _____ Lot No. _____

Parcel ID Number _____

Plan Transaction Number _____

Index sheet
Calculations
At-grade drawings
Laterals and dose tank
Specifications
Management & contingency plan
Site Plan Drawing

Page 1
Page 2
Page 3
Page 4
Page 5
Page 6
Page 7



Designer Kenneth Suchan

License Number 224182

Signature *Kenneth Suchan*

Phone Number (920) 894-3696

Date 11/30/07

Designed pursuant to:

At-grade Component Manual for POWTS SBD-10570-P (R.6/99), and
SSWMP Publication 9.6 Design of Pressure Distribution Networks for ST - SAS (01/81)

PRESSURIZED AT-GRADE DESIGN

At-grade Design Worksheet - Sloping Site

Flows and Site Data Entry.

(r or c)	r	Residential or commercial?
	300.0	Estimated wastewater flow (gpd)
	450.0	Design wastewater flow (gpd)
	6.00	% Site slope
	103.75	Contour elev. below lateral (ft)
	38.00	Depth to limiting factor (in)
	0.40	In-situ soil application rate (gpd/ft^2)

Distribution Cell Information

(1 or 2)	1	Influent wastewater quality
	4.50	Linear loading rate gpd/ft
	10.00	Effective absorption width (ft)
	10.00	Max. effective width permitted (ft)
	113.00	Aggregate length (ft)

Pressure Distribution Data Entry

(c or e)	c	Center or end lateral connection
	2	Number of laterals
	0.188	Orifice diameter (in) e.g. 0.188
Not a final calculation	1.75	Estimated orifice spacing (ft)
	2.00	Forcemain diameter (in)
	4.31	Forcemain flow velocity (ft/sec)
	120.00	Forcemain length (ft)
	87.00	Pump tank elevation (ft)
	3.25	System head (ft) x 1.3
	16.92	Vertical lift (ft)
	4.37	Friction loss (ft)
	24.54	Total dynamic head (ft)

y or n	y	Does forcemain drain back?
y or n	y	Are laterals at highest point?
	NA	NA
	19.6	Forcemain drainback (gal)
	51.0	5x Lateral void volume (gal)
	70.6	Minimum dose volume (gal)
	42.2	System demand (gpm)

Lateral Diameter Selection

Pipe diameter	Design options	Design choice
1 in	☒	
1.25 in	☒	
1.5 in	☒	☒
2 in	☒	
3 in	☒	

Designer must select one lateral diameter

Gallons/Inch Calculator (optional)

	Total Tank Capacity (gal)
	Total Working Liquid Depth (in)
	Gal/in (enter result in cell G46)

Treatment Tank Information

1000	Septic tank capacity (gal)
ledgeview	Manufacturer

Effluent Filter Information

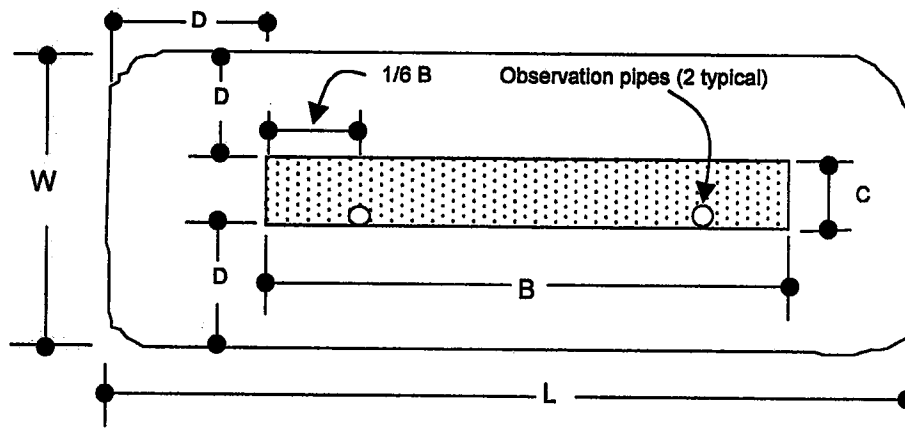
Orenco Screen	Filter manufacturer
ES1548	Filter model number

Dose Tank Information

500.0	Dose tank capacity (gal)
11.3	Dose tank volume (gal/in)
Ledgeview	Manufacturer

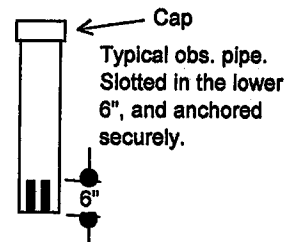
Project: Rodney Arpke, 3 bedroom At -Grade System.
Transaction Number:

AT-GRADE PLAN VIEW

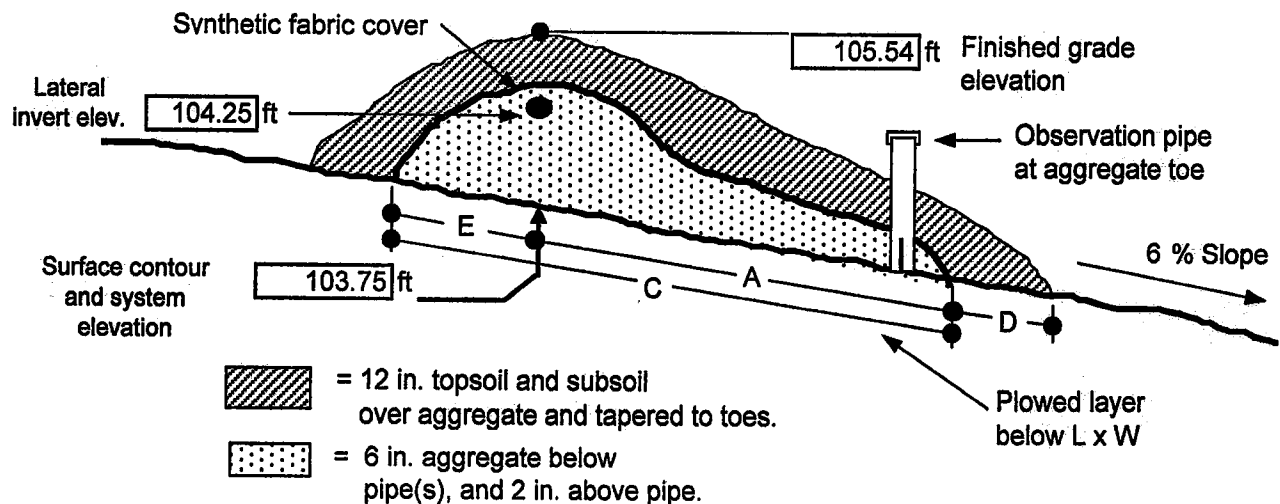


A	10.00	ft
B	113.00	ft
1/6 B	18.83	ft
C	12.00	ft
D	5.00	ft
E	2.00	ft
L	123.00	ft
W	22.00	ft
A x B	1125.00	ft ²

 = Total aggregate cell A x B
 = Plowed area L x W



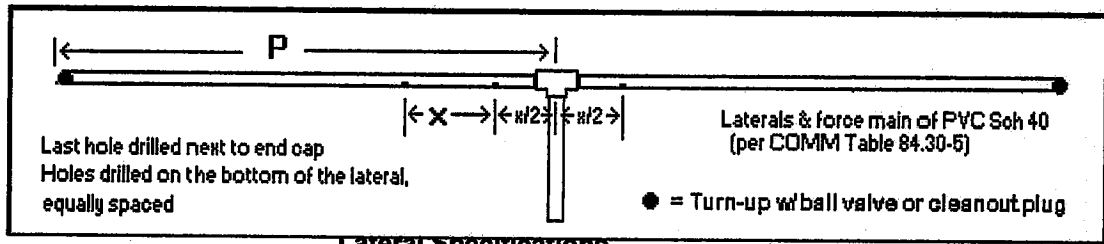
AT-GRADE CROSS SECTION



Project: Rodney Arpke, 3 bedroom At -Grade System.
 Transaction Number:

PRESSURE DISTRIBUTION AND DOSE TANK

Lateral Diagram - Center Connection

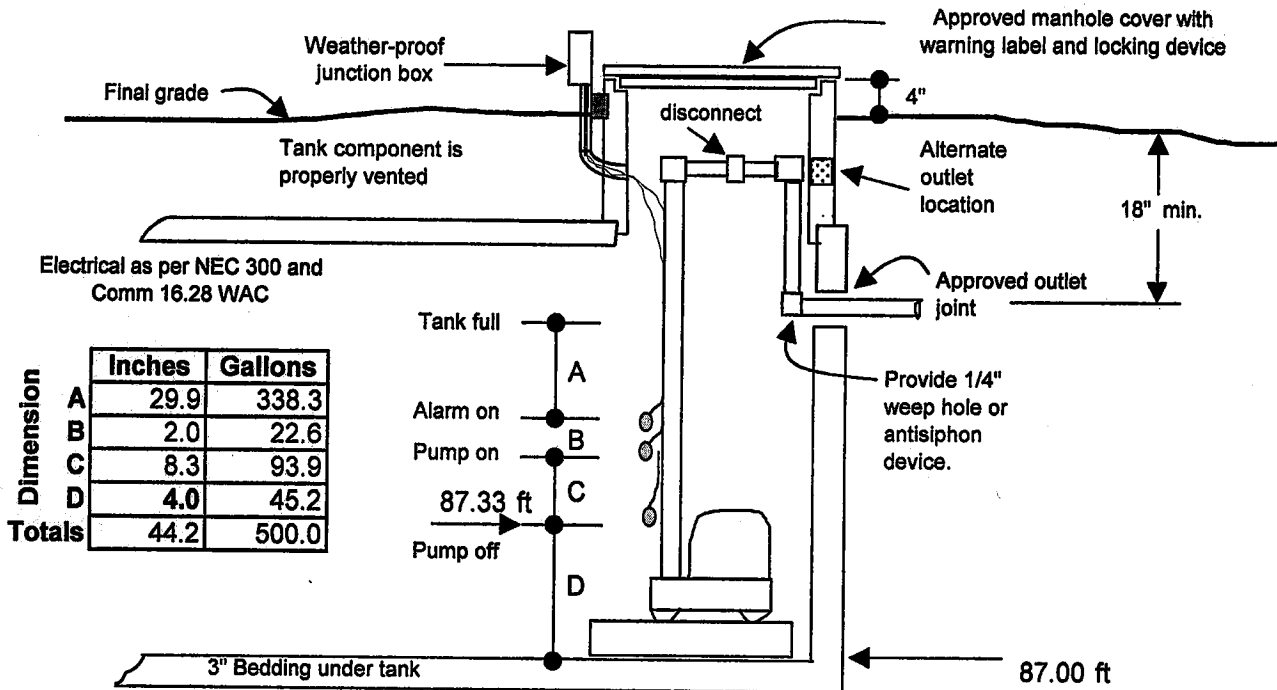


Lateral Specifications

X	0.188	Orifice diameter (in)
	1.76	Orifice spacing (ft)
	32	Orifices/lateral
	21.1	Lat. discharge rate (gpm)
	42.2	Sys. discharge rate (gpm)
	24.54	TDH (ft)

P	Center	Lateral connection point
	2	Number laterals
	55.44	Lateral length (ft)
	1.50	Lateral diameter (in)
	2.00	Forcemain diameter (in)
	120.00	Forcemain Length (ft)

Typical Pump Chamber Layout



Zoller	Pump manufacturer
N-140	Pump model number

SJ Electro Inc	Alarm manufacturer
101 HW	Alarm model number

Project: Rodney Arpke, 3 bedroom At -Grade System.
Transaction Number:

At-grade System Maintenance and Operation Specifications

Service Provider's Name	Ken,s Septic Service L.L.C.	Phone	894-3696
POWTS Regulator's Name	Sheboygan County Planning Dept.	Phone	459-3060

System Flow and Load Parameters

Design Flow - Peak	450	gpd	Maximum Influent Particle Size	1/8	in
Estimated Flow - Average	300	gpd	Maximum BOD5	220	mg/L
Septic Tank Capacity	1000	gal	Maximum TSS	150	mg/L
Soil Absorption Component Size	1125.0	ft ²	Maximum FOG	30	mg/L
Type of Wastewater	Domestic		Maximum Fecal Coliform	>10E4	cfu/100 mL

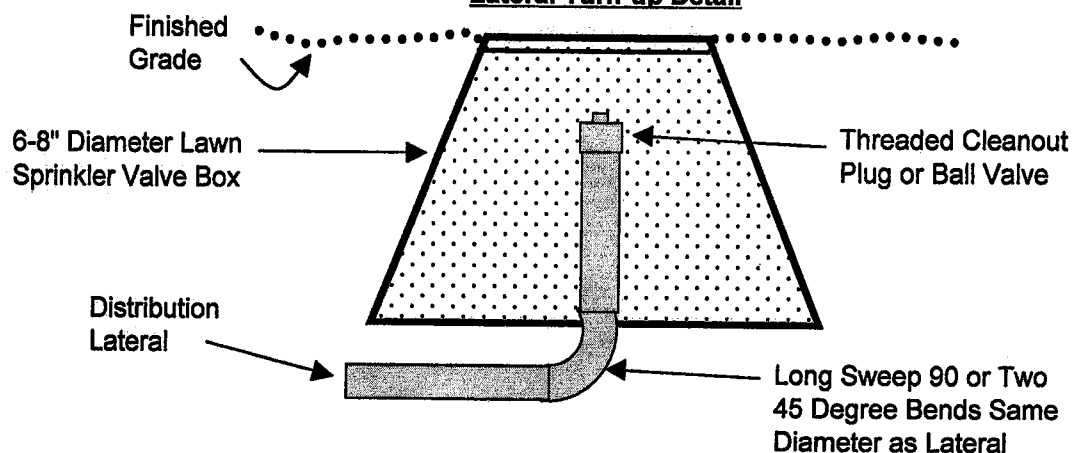
Service Frequency

Septic and Pump Tank	Inspect and/or service once every 3 years
Effluent Filter	Inspect and clean at least once every 3 years
Pump and Controls	Test once every 3 years
Alarm	Should test monthly <u>3</u>
Pressure System	Laterals should be flushed and pressure tested every 4.5 years
Mound	Inspect for ponding and seepage once every 3 years
Other	

Miscellaneous Construction and Materials Standards

1. Observation pipes are slotted and materials conform to Table Comm 84.30-1, have a watertight cap, and are secured in as shown in the at-grade component manual.
2. Dispersal cell aggregate conforms to Comm 84.30 (6)(i), Wis. Adm. Code.
3. All gravity and pressure piping materials conform to the requirements in Comm 84, Wis. Adm. Code.
4. Tillage of the basal area is accomplished with a mold board or chisel plow.
5. The at-grade structure and other disturbed areas will be seeded and mulched to prevent soil erosion and help reduce frost penetration.
6. Areas within 15 feet of the downslope toe will be protected from compaction.
7. All other construction details are as per the at-grade component manual SBD-10570-P (R. 6/99).

Lateral Turn-up Detail



Project: Rodney Arpke, 3 bedroom At -Grade System.
Transaction Number:

At-grade System Management Plan

Pursuant to Comm 83.54, Wis. Adm. Code

General

This system shall be operated in accordance with Comm 82-84 Wis. Adm. Code, and shall be maintained in accordance with its' component manuals [SBD-10570-P (R. 06/99) and SSWMP Pub. 9.6 (01/81)] and local or state rules pertaining to system maintenance and maintenance reporting.

No one should ever enter a septic or pump tank since dangerous gases may be present that could cause death.

Septic and pump tank abandonment shall be in accordance with Comm 83.33, Wis. Adm. Code when the tanks are no longer used as POWTS components.

Septic or pump tank manhole risers, access risers and covers should be inspected for water tightness and soundness. Access openings used for service and assessment shall be sealed watertight upon the completion of service. Any opening deemed unsound, defective, or subject to failure must be replaced. Exposed access openings greater than 8-inches in diameter shall be secured by an effective locking device to prevent accidental or unauthorized entry into a tank or component.

Septic Tank

The septic tank shall be maintained by an individual certified to service septic tanks under s. 281.48, Stats. The contents of the septic tank shall be disposed of in accordance with NR 113, Wis. Adm. Code. The operating condition of the septic tank and outlet filter shall be assessed at least once every 3 years by inspection.

The outlet filter shall be cleaned as necessary to ensure proper operation. The filter cartridge should not be removed unless provisions are made to retain solids in the tank that may slough off the filter when removed from its enclosure. If the filter is equipped with an alarm, the filter shall be serviced if the alarm is activated continuously. Intermittent filter alarms may indicate surge flows or an impending continuous alarm.

The septic tank shall have its contents removed when the volume of sludge and scum in the tank exceeds 1/3 the liquid volume of the tank. If the contents of the tank are not removed at the time of a triennial assessment, maintenance personnel shall advise the owner of when the next service needs to be performed to maintain less than maximum scum and sludge accumulation in the tank.

The addition of biological or chemical additives to enhance septic tank performance is generally not required. However, if such products are used they shall be approved for septic tank use by the Department of Commerce.

Pump Tank

The pump (dosing) tank shall be inspected at least once every 3 years. All switches, alarms, and pumps shall be tested to verify proper operation. If an effluent filter is installed within the tank it shall be inspected and serviced as necessary.

At-grade and Pressure Distribution System

No trees or shrubs should be planted on the at-grade. Plantings may be made around the at-grade's perimeter, and the at-grade shall be seeded and mulched as necessary to prevent erosion and to provide some protection from frost penetration. Traffic (other than for vegetative maintenance) on the at-grade is not recommended since soil compaction may hinder aeration of the infiltrative surface within the mound and snow compaction in the winter will promote frost penetration. Cold weather installations (October-February) dictate that the at-grade be heavily mulched as protection from freezing.

Influent quality into the at-grade system may not exceed 220 mg/L BOD₅, 150 mg/L TSS, and 30 mg/L FOG for septic tank effluent or 30 mg/L BOD₅, 30 mg/L TSS, 10 mg/L FOG, and 10⁴ cfu/100 mL for highly treated effluent. Influent flow may not exceed maximum design flow specified in the permit for this installation.

The pressure distribution system is provided with a flushing point at the end of each lateral, and it is recommended that each lateral be flushed of accumulated solids at least once every 30 months. When a pressure test is performed it should be compared to the initial test when the system was installed to determine if orifice clogging has occurred and if orifice cleaning is required to maintain equal distribution within the dispersal cell.

Observation pipes within the dispersal cell shall be checked for effluent ponding. Ponding levels shall be reported to the owner, and any levels above 4 inches considered as an impending hydraulic failure requiring additional, more frequent monitoring.

Contingency Plan

If the septic tank or any of its components become defective the tank or component shall be repaired or replaced to keep the system in proper operating condition.

If the dosing tank, pump, pump controls, alarm or related wiring becomes defective the defective component(s) shall be immediately repaired or replaced with a component of the same or equal performance.

If the at-grade component fails to accept wastewater or begins to discharge wastewater to the ground surface, it will be repaired or replaced in its' present location by increasing basal area if toe leakage occurs or by renovating the biologically clogged absorption and dispersal media, installing new piping, and replacing other components as deemed necessary to bring the system into proper operating condition.

See Page 5 of this plan for the name and telephone number of your local POWTS regulator and service provider.

"QUALITY PUMPS SINCE 1939"

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

ZOELLER
PUMP CO.



SECTION: 2.20.045

FM1502

0904

Supersedes

0104

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
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COMPARE THESE FEATURES

- Durable Cast Iron construction.
- Non-Clogging engineered thermoplastic vortex impeller design, passes 1/2" spherical solids.
- Motor - 60 Hz, 3450 RPM, oil-filled, hermetically sealed, automatic reset, thermal overload protected.
- Available in both single or double shaft seal designs.
- Carbon/Ceramic seals.
- Assembled with Stainless Steel bolts.
- Upper sleeve and lower ball bearing running in bath of oil.
- 15 ft. UL Listed Neoprene cord with molded plug cap and ground wire.
- 1 1/2" NPT vertical discharge.
- Stainless steel lifting handle.
- BN and BE models include a variable level float switch and 1 1/2" X 2" PVC adapter fitting.
- Operates at temperatures to 130°F (54°C) in effluent or dewatering applications.
- Corrosion resistant powder coated epoxy finish.

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

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PUMP CO.

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Louisville, KY 40256-0347
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Louisville, KY 40211-1961
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FAX (502) 774-3624



Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

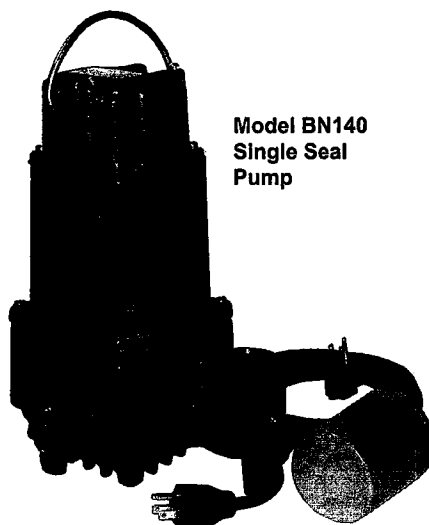
140 / 4140 Cast Iron Series

(For Pump Prefix Identification see News & Views 0052)

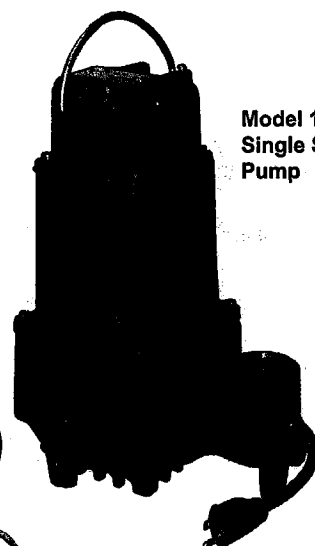
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FOR SEPTIC TANK - LOW PRESSURE PIPE (LPP)
AND ENHANCED FLOW STEP SYSTEMS

EFFLUENT
OR DEWATERING PUMPS
SUBMERSIBLE
1 1/2" NPT DISCHARGE



Model BN140
Single Seal
Pump

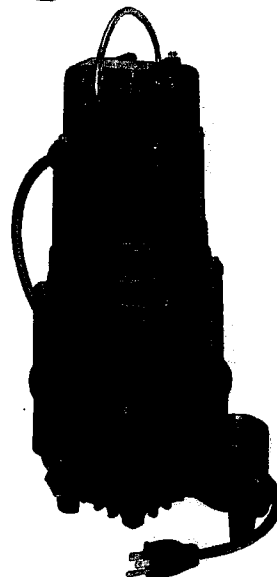


Model 140
Single Seal
Pump

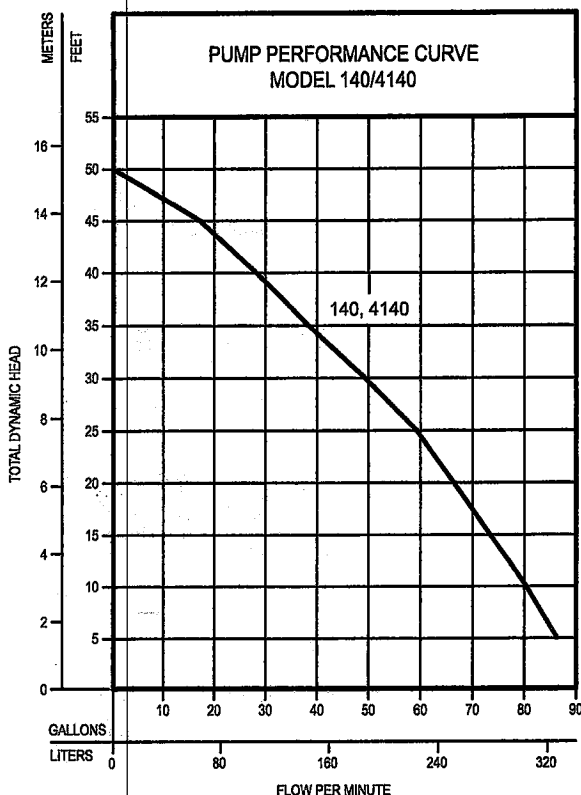


MODELS AVAILABLE

- Automatic (Models BN & BE)
- Nonautomatic
- 1 HP, 1Ph 115V or 230V



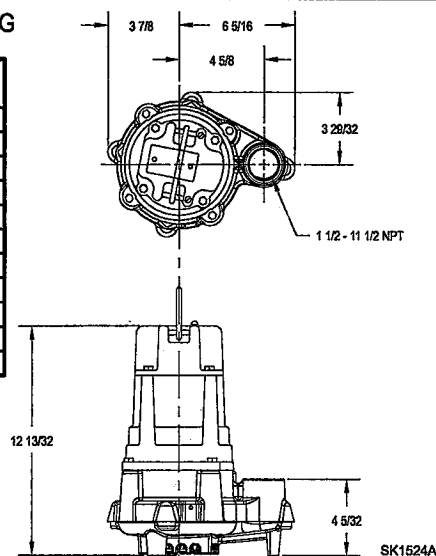
Model 4140
Double Seal
Pump



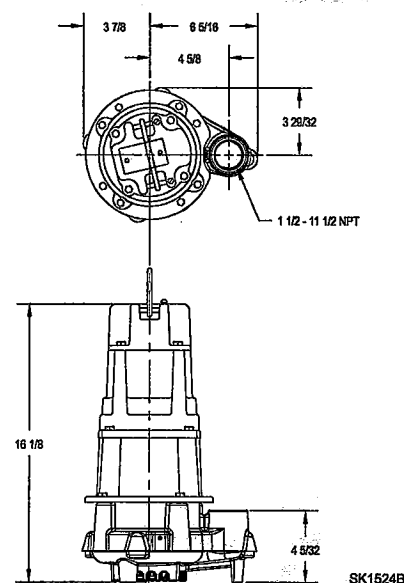
**TOTAL DYNAMIC HEAD/FLOW
PER MINUTE
EFFLUENT AND DEWATERING**

MODEL		140/4140	
Feet	Meters	Gal.	Liters
5	1.5	86	326
10	3.0	80	303
15	4.6	73	276
20	6.1	66	250
25	7.6	59	223
30	9.1	49	185
35	10.7	38	144
40	12.2	28	106
45	13.7	17	64
Shut-off Head:		50 ft.(15.2m)	

**Single Seal Design
Weight 43 lbs.**



**Double Seal Design
Weight 63 lbs.**



CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Electrical alternators, for duplex systems, are available and supplied with an alarm.
- Mechanical alternators, for duplex systems, are available with or without alarms.
- Control alarm systems are available for 1 phase pumps used in simplex system. See FM0732.
- Variable level control switches are available for controlling single phase systems.
- Double piggyback variable level float switches are available for variable level long cycle controls.
- Sealed Qwik-Box available for outdoor installations. See FM1420.
- Refer to FM0806 for applications above 130°F (54°C).

140/4140 MODELS						Control Selection	
Model	Model	Volts-Ph	Mode	Amps		Simplex	Duplex
N140	N4140	115	1	Non	12.0	1 or 2	3
E140	E4140	230	1	Non	6.0	1 or 2	3
BN140	BN4140	115	1	Auto	12.0	*	---
BE140	BE4140	230	1	Auto	6.0	*	---

*Single piggyback switch included.

SELECTION GUIDE

1. For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
2. See FM1228 for correct model of simplex control panel.
3. See FM0712 for correct model of duplex control panel.

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.



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FAX (502) 774-3624

Manufacturers of..

"QUALITY PUMPS SINCE 1939"

Site Plan drawing for Rodney Arpke, At-Grade System.

C.T.H E.H.

Willow Road.

Scale 1"=40'

Backhoe Pit=□

Pond

1-2-

101.30'

102.62'

104.40'

Outfall

At-Grade
122'X22'

B2
6% Slope

B3

Bench Mark is Bottom of siding
on house at 100.00'

old Septic tank shall
be Pump out & Filled in

2" S.C.H.40 P.V.C. Force Main
6' Under Ground.

1000/500 Gals Septic /Pump Tank

4" S.C.H.40 P.V.C. Sewer pipe.

3 Bedroom
Residence

Well in Side Basement

Blacktop Driveway

Barn

Kenneth Suchan
24219 C.T.H.X.
New Holstein, Wi.

I.D.# 224182

Kenneth Suchan

RECEIVED

Wisconsin Department of Commerce
Division of Safety and Buildings

SOIL EVALUATION REPORT

DEC 11 2007 Page 1 of 2
Ken's Septic Service

In accordance with Comm 85, Wis. Adm. Code

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County FETTY & BUILDINGS Sheboygan	
Parcel I.D.	
Reviewed By	Date

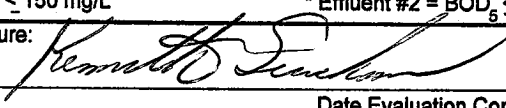
Property Owner Rodney Arpke		Property Location Govt. Lot NW 1/4 NW 1/4 S 7 T 16 NR 22 E	
Property Owner's Mailing Address N-9263 Willow Road		Lot #	Block #
City Elkhart Lake State WI Zip Code 53020 Phone Number		Subd. Name or CSM#	
City Elkhart Lake State WI Zip Code 53020 Phone Number		☐ City ☐ Village ☒ Town	Nearest Road Willow Road

☒ New Construction	Use: ☒ Residential / Number of bedrooms 3	Code derived design flow rate 450 GPD
☒ Replacement	☐ Public or commercial - Describe:	
Parent material		Flood plain elevation, if applicable N/A
General comments and recommendations: Site is suitable for At-Grade System.		

1	Boring # ☒ Boring ☒ Pit	Ground Surface elev. 102.62 ft.	Depth to limiting factor 80 in.	Soil Application Rate GPD/ft ²						
Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*Eff#1	*Eff#2
1	0-9	10yr 3/2	-----	L	2 f sbk	mfr	as	2f	0.6	0.8
2	9-26	5 yr 4/4	-----	L	2 f sbk	mfi	gw	1f	0.6	0.8
3	26-52	10yr 6/3	-----	SL	1 f pl	mfr	gw	1f	0.4	0.6
4	52-80	10yr 6/3	-----	L	1 f pl	mfi	gw	---	0.4	0.6

2	Boring # ☒ Boring ☒ Pit	Ground Surface elev. 104.40 ft.	Depth to limiting factor 40 in.	Soil Application Rate GPD/ft ²						
Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*Eff#1	*Eff#2
1	0-12	10yr 3/2	-----	L	2 f sbk	mfr	as	2f	0.6	0.8
2	12-40	5 yr 4/4	-----	CL	2 f sbk	mfi	gw	1f	0.6	0.8
3	40-48	10yr 6/4	C2d 10yr 6/8	sil	1 f pl	mfr	gw	---	0.4	0.6

* Effluent #1 = BOD₅ > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L* Effluent #2 = BOD₅ ≤ 30 mg/L and TSS ≤ 30 mg/L

CST Name (Please Print) Kenneth Suchan	Signature: 	CST Number 224182
Address Ken's Septic Service 24219 CTH X, New Holstein, WI 53061		Date Evaluation Conducted 11/30/07
		Telephone Number 920-894-3696

3	Boring #	☒ Boring	Ground Surface elev. <u>103.08</u> ft.	Depth to limiting factor <u>38</u> in.	Soil Application Rate					
		☒ Pit			GPD/ft ²					
					*Eff#1	*Eff#2				
Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots		
1	0-9	10yr 3/2	_____	L	2 f sbk	mfr	as	2f	0.6	0.8
2	9-17	5 yr 4/4	_____	CL	2 f sbk	mfi	gw	1f	0.4	0.6
3	17-38	10yr 6/4	_____	L	2 f sbk	mfr	gw	--	0.6	0.8
4	38-42	10yr 6/4	C2d 10yr 6/8	sil	1 f pl	mfr	gw	---	0.4	0.6

	Boring #	☐ Boring	Ground Surface elev. _____ ft.	Depth to limiting factor _____ in.	Soil Application Rate					
		☐ Pit			GPD/ft ²					
					*Eff#1	*Eff#2				
Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots		

	Boring #	☐ Boring	Ground Surface elev. _____ ft.	Depth to limiting factor _____ in.	Soil Application Rate					
		☐ Pit			GPD/ft ²					
					*Eff#1	*Eff#2				
Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots		

* Effluent #1 = BOD₅ > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L* Effluent #2 = BOD₅ ≤ 30 mg/L and TSS ≤ 30 mg/L

The Department of Commerce is an equal opportunity service provider and employer. If you need assistance to access services or need material in an alternate format, please contact the department at 608-266-3151 or TTY 608-264-8777.

Site Plan drawing for Rodney Arpke, At-Grade System.

C.T.H E.H.

Willow Road.

Scale 1"=40'

Backhoe Pit=□

Pond

1-2-

101.30'

102.62'

104.40'

Outfall

At-Grade
122'X22'

B2

6% Slope

B3

Bench Mark is Bottom of siding
on house at 100.00'

old Septic tank shall
be Pump out & Filled in

2" S.C.H.40 P.V.C. Force Main
6' Under Ground.

1000/500 Gals Septic / Pump Tank

4" S.C.H.40 P.V.C. Sewer pipe.

3 Bedroom
Residence

Well in Side Basement

Blacktop Driveway

Barn

Kenneth Suchan
24219 C.T.H.X.
New Holstein, Wi.

I.D.# 224182

Kenneth Suchan



PRIVATE ONSITE WASTE TREATMENT SYSTEMS
(POWTS)
INSPECTION REPORT
(ATTACH TO PERMIT)

County
SHEBOYGAN
Sanitary Permit No: Co. 2626 State 516227
State Plan Transaction ID#: 1490967
Parcel Tax No: 59004032050 T2-7-222 11.36

GENERAL INFORMATION

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)]

Permit Holder's Name: PODANY DANKZ	☐ City ☐ Village ☒ Town of: HEZMAN	
CST BM Elev: —	Insp BM Elev: 100.00	BM Description: Bottom of Siding North

TANK INFORMATION

TYPE	MANUFACTURER	CAPACITY
Septic	Leagewin	1000
Dosing	2 compartment	500
Aeration	combo	
Holding		

ELEVATION DATA

STATION	BS	HI	FS	ELEV
Benchmark				100.00
Bldg. Sewer				92.20
St / Ht Inlet				91.41
St / Ht Outlet				
Dt Inlet				
Dt Bottom				87.80
Installation Contour				
Header / Man.				105.21
Dist. Pipe				105.18
Infiltrative Surface				104.32
Final Grade				106.44
Top of stone over piping				105.44
Top of EZ/ Chamber				

TANK SETBACK INFORMATION

TANK TO	P/L	WELL	BLDG	VENT TO AIR INTAKE	ROAD
Septic	81'	53.35	24.5	32.5	NA
Dosing	81'	53.35	24.5	32.8	NA
Aeration					NA
Holding					

PUMP / SIPHON INFORMATION

Manufacturer	Zorlze	Demand	
Model Number	140	42 GPM	
17.41 Lift	Friction Loss 7.93	System Head 3.25	TDH 28.59
Forcemain	Length 218	Dia 2"	Dist. To Well 67'

DISPERSAL CELL INFORMATION

DIMENSIONS	Width 12	Length 113	No of Cells 1	
SETBACK INFORMATION	P / L	Bldg	Well	OHW of Nav Waters
CELL TO	92.5	47'	74'	—

Type of System	LEACHING CHAMBER	Manufacturer:
At Grace		Model Number:

DISTRIBUTION SYSTEM

Header / Manifold Length — Dia —	Distribution Pipe(s) Length 55.4 Dia 1.5	2" or 2" Spac Top	X Hole Size 1.88	X Hole Spacing 1.76	Observation Pipes ☒ Yes ☐ No
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SOIL COVER

Depth Over Cell Center 106.44 / 124	Depth Over Cell Edges 105.94 / 64	Depth of Topsoil Top 6"	Seeded / Sodded ☒ Yes ☐ No	Mulched ☐ Yes ☒ No
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COMMENTS: (Include code discrepancies, persons present, etc.)

TYPE OF FILTER USED: **ORANGE SCREEN ES 1548**

Onsite at 6.25.08 w/ Sachan At Grace Area Stake gives Soil Depth best work w/ chisel plow.
Onsite at 6.26.08 w/ Sachan obs piping from house to Tank Tank. Forcemain Trenches to At Grace down slope 64' wide. Observed piping layout in At Grace all waste going into system 10.9.08 M50 Existing Tank pump out filled

Plan revision required? ☐ Yes ☐ No

Use other side for additional information

6 26 08

Date

M.J. DeMester 2nd

POWTS Inspector's Signature

2 2 4 9 3 7

Cert No

From Sw corner of house north 25' to piping with 24.5' sch40 to Ledgeview 1500 gal 2 compartment combo tank with 3' riser on inlet and 2' riser on pump chamber and orenco screen filter.

From outlet of pump chamber 90° 6' sch40 sleeve 48' of 2' forcemain 45° 6' 22° 154' to manifold and piping layout in at grade. Existing tank pumped and filled. All waste going into system on 10-9-08 MJD

