



Safety and Buildings Division

General Information

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

Permit Holder's Name: Richard Bemis		☐ City Scott	☐ Village	☒ Town of:
CST BM Elev: 100'	Insp BM Elev: 100'	BM Description: Top of conc. Floor at garage door		

County Sheboygan
Sanitary Permit No: 9053 540554
State Plan Transaction ID#:
Parcel Tax No: 59022313500

Tank Information

TYPE	MANUFACTURER	CAPACITY
Septic	Ledgeview Combo	1000/500
Dosing		
Aeration		
Holding		

Elevation Data

STATION	BS	HI	FS	ELEV
Benchmark	3.4'	103.4'		100'
Bldg. Sewer		103.4'	5.22'	98.18'
St / Ht Inlet		103.4'	5.44'	97.96'
St / Ht Outlet		103.4'	5.64'	97.76'
Effluent line con.		103.4'	5.89'	97.51'
Dt Bottom				
Installation Contour				
Header / Man.				
Dist. Pipe				
Infiltrative Surface				
Final Grade				

Tank Setback Information

TANK TO	P/L	WELL	BLDG	VENT TO AIR INTAKE	ROAD
Septic	80.57'	41.66'	13.5'	24.74'	NA
Dosing					NA
Aeration					NA
Holding					

Pump / Siphon Information

Manufacturer		Demand	
Model Number		GPM	
Lift	Friction Loss	System Head	TDH
Forcemain	Length	Dia	Dist. To Well

Dispersal Cell Information Existing

DIMENSIONS	Width	Length	No of Cells
SETBACK INFORMATION	P / L	Bldg	Well
CELL TO			

Type of System	LEACHING CHAMBER	Manufacturer:
		Model Number:

Distribution System

Header / Manifold		Distribution Pipe(s)			X Hole Size	X Hole Spacing	Observation Pipes	
Length _____	Dia _____	Length _____	Dia _____	Spac _____			☒ Yes ☐ No	

Soil Cover

Depth Over Cell Center 12"min		Depth Over Cell Edges 12"min		Depth of Topsoil 6"min		Seeded / Sodded ☒ Yes ☐ No		Mulched ☒ Yes ☐ No	
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COMMENTS: (Include code discrepancies, persons present, etc.)

Filter Device - Poly Loc 525 Outlet filter

4-7-11/KJS onsite with Dale B. 220840 to inspect installation of septic tank to replace old tank. Steve pumped old S.T. All interior waste exists under basement floor. Connection made to clay piping with fernco. Existing effluent line was insulated at time of installation.

Plan revision required? ☐ Yes ☒ No

4	7	11
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Use other side for additional information

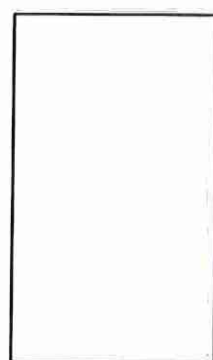
Date

POWTS Inspector's Signature

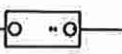
Cert No

2	2	4	2	5	2
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Sanitary Permit 9053



B.M. #1 top of
conc. garage
floor = 100'



13.5' out of residence under basement floor into
S.T. 7.5' out of S.T. connection made to existing
piping to seepage pit.
2' riser on inlet of S.T.
1.5' riser on outlet of S.T.





Please locate septic system components on this map using the provided legend symbols.
When finished, please return this map, along with the attached green sheet, to the
Sheboygan County Planning Department.

County #NA-2484

1" equals 50'



Owner: BEMIS TRUST RICHARD C & MARGARET A

Site: W7083 & W7085 HILLSIDE DR

Notes:

COVERS ARE ABOVE GROUND FILTER
BED LAYOUT PER OWNER

- RECEIVED**
OCT 11 2007
SHEBOYGAN COUNTY
PLANNING & RESOURCES DEPT
- Combined Septic Pump Tank = 
Septic Tank = 
Pump Chamber = 
Absorption Area = 

 commerce.wi.gov Wisconsin Department of Commerce		Safety and Buildings Division 201 W. Washington Ave., P.O. Box 7162 Madison, WI 53707-7162		County <u>Sherborn</u>	
#9053 city 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.				Sanitary Permit Number (to be filled in by Co.) <u>540554 / 9053 city</u>	
				State Transaction Number ~	
I. Application Information - Please Print All Information				Project Address (if different than mailing address) <u>W7085 Hillside Dr</u>	
Property Owner's Name <u>Richard Bernis</u>		RECEIVED SEP 24 2010 SHERBORN COUNTY PLANNING & RESOURCES DEPT		Parcel # <u>T1113 / 72-A</u> <u>590223 1500 154ac</u>	
Property Owner's Mailing Address <u>W7085 Hillside Dr.</u>				Property Location Govt. Lot _____ <u>NW 1/4, NE 1/4, Section 13</u> T <u>13</u> N; R <u>20</u> E of <u>EX</u>	
City, State <u>Adell WI</u>		Zip Code <u>53001</u>		Phone Number <u>920-994-9026</u>	
II. Type of Building (check all that apply) ☒ 1 or 2 Family Dwelling - Number of Bedrooms <u>4</u> ☐ Public/Commercial - Describe Use _____ ☐ State Owned - Describe Use _____				Lot # _____ Block # _____ CSM Number _____	
III. Type of Permit: (Check only one box on line A. Complete line B if applicable)				Subdivision Name _____	
A. ☐ New System		☐ Replacement System		☒ Treatment/Holding Tank Replacement Only	
B. ☐ Permit Renewal Before Expiration		☐ Permit Revision		☐ Change of Plumber	
				☐ Permit Transfer to New Owner	
				List Previous Permit Number and Date Issued <u>NA-2484 violation</u>	
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) <u>600</u>		Design Soil Application Rate(gpdsf)		Dispersal Area Required (sf)	
				Dispersal Area Proposed (sf)	
				System Elevation	
VI. Tank Info Capacity in Gallons New Tanks Existing Tanks		Total Gallons # of Units		Manufacturer	
Septic or Holding Tank <u>1500</u> <u>—</u> <u>1500</u> <u>1</u> <u>Ledgeview</u>				Prefab Concrete Site Constructed Steel Fiber Glass Plastic	
Dosing Chamber				☒	
VII. Responsibility Statement- I, the undersigned, assume responsibility for installation of the POWTS shown on the attached plans.					
Plumber's Name (Print) <u>Dale Burke</u>		Plumber's Signature <u>Dale Burke</u>		MP/MPRS Number <u>280840</u>	
Plumber's Address (Street, City, State, Zip Code) <u>W8449 Springview Drive, Kewaskum, WI. 53040</u>				Business Phone Number <u>262-626-4464</u>	
VIII. County/Department Use Only					
☒ Approved ☐ Disapproved		Permit Fee \$ <u>376.00</u>		Date Issued <u>9/28/10</u>	
☐ Owner Given Reason for Denial				Issuing Agent Signature <u>Kathryn Fabian</u>	
IX. Conditions of Approval/Reasons for Disapproval <u>All interior wastewater shall be routed to new tank.</u>					

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

INDEX AND TITLE SHEET

Page 1 of 5

Project 4 Bedroom Residence
Owner Richard Bemis
Address W7085 Hillside Drive
Adell, WI 53001

Legal Description NW 1/4, NE 1/4, S13, T13N, R20E
Township Scott County Shelby
Subdivision Name _____ Lot Number _____
Parcel ID Number 59022313500 Plan ID Number _____

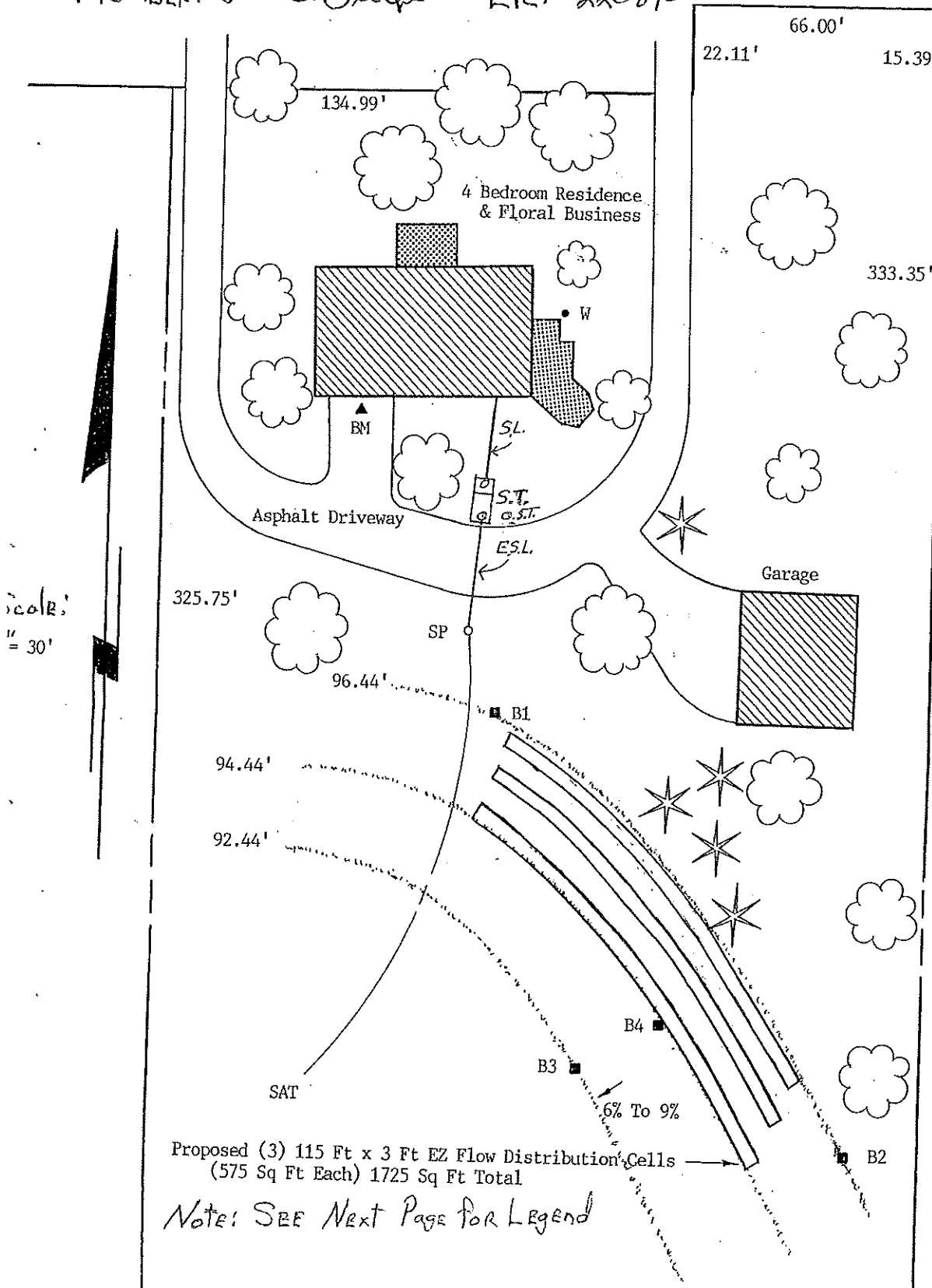
Page 1: Index Sheet
Page 2: Plot Plan
Page 3: Legend
Page 4: Outlet Filter Spce.
Page 5: Management Plan
Page 6: _____
Page 7: _____
Page 8: _____

Designer Dale Burke License Number 220840
Signature Dale Burke Phone Number 414-626-4464
Date 9-22-10

PLOT PLAN

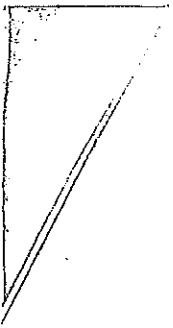
Property Owner Richard Bemis Page 2 of 5
 Address W705 Hillside Drive City Adell State WI Zip 53040
 Site Location NW 1/4 NE 1/4, Section 13, T13N, R20E
 Township Scott County: Shroboyan
 Vertical Reference Point Top of Concrete at Overhead Door B.M. Elevation 100.0'
CA Hillside Drive C/L

Plumber: Dale Burkh Lic. # 220840



Legend

Page 3 of 5

- 
- ▲ BM Denotes Benchmark Top Of Concrete Garage Floor @ Overhead Garage Door Assumed Elevation 100.00'
 - W Denotes Existing Well
 - OST Denotes Existing Structurally Defective 500 Gallon Precast Concrete Septic Tank; (Tank to be pump out + Abandon)
Estimate Flow Line Of Effluent Line @ Septic Tank Outlet @ Elevation 97.19'
 - SP Denotes Existing 500 Gallon Precast Concrete Seepage Pit In Fair Condition;
Estimate Flow Line Of Seepage Pit Outlet @ Elevation 94.44'
Estimate Seepage Pit System Elevation @ 90.44'
 - SAT Denotes 130 Ft x 5 Ft Soil Absorption Trench (650 Sq Ft);
Estimate System Elevation Of Soil Absorption Trench @ Seepage Pit @ Elevation 93.44'
 - ☁ Denotes Deciduous Trees
 - ▣ Denotes Decks
 - ★ Denotes Coniferous Trees
 - S.T. Denotes New 1,500gal Ledgeview Concrete Two Compartment Septic Tank
 - S.L = New 4" PVC Sch 40 SEWER line
 - E.S.L. = Existing 4" PVC SEWER line

Owner: Richard Bernis

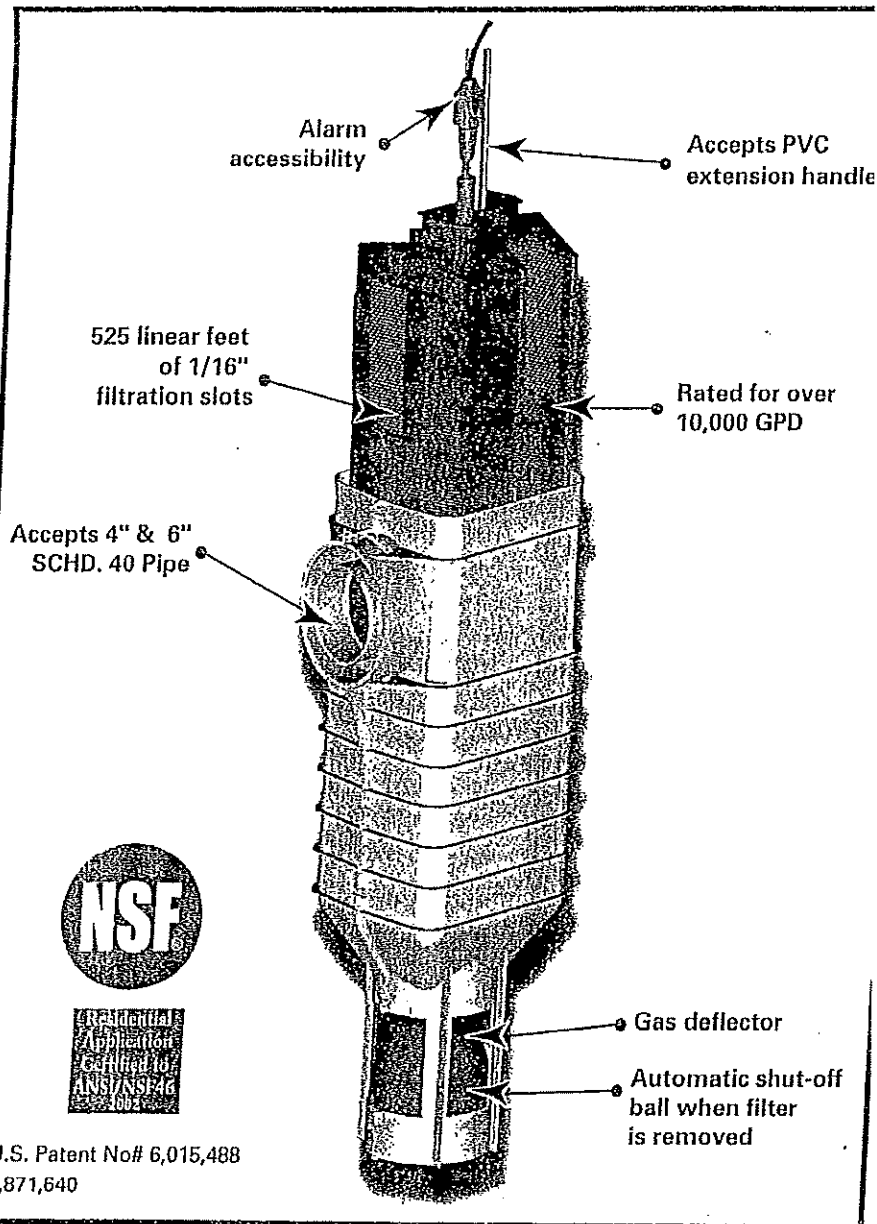
PL-525 EFFLUENT FILTER (COMMERCIAL)

Polylok, Inc is pleased to add its new commercial filter to its existing line of quality effluent filters. The PL-525 is rated for over 10,000 GPD (gallons per day) making it one of the largest commercial filters in its class. It has 525 linear feet of 1/16" filtration slots. Like the Polylok PL-122, the new Polylok PL-525 has an automatic shut off ball installed with every filter. When the filter is removed for cleaning, the ball will float up and temporarily shut off the system so the effluent won't leave the tank. **No other filter on the market can make that claim!**

PL-525 Maintenance:

The PL-525 Effluent Filter should operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped or at least every three years. If the installed filter contains an optional alarm, the owner will be notified by an alarm when the filter needs servicing. Servicing should be done by a certified septic tank pumper or installer.

1. Locate the outlet of the septic tank.
2. Remove tank cover and pump tank if necessary.
3. Do not use plumbing when filter is removed.
4. Pull PL-525 out of the housing.
5. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
6. Insert the filter cartridge back into the housing making sure the filter is properly aligned and completely inserted.

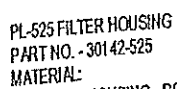


PL-525 Installation:

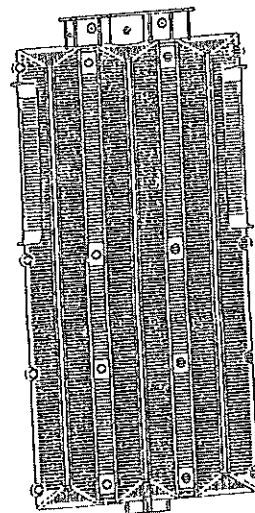
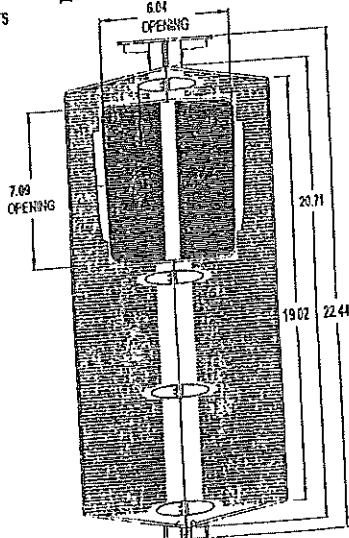
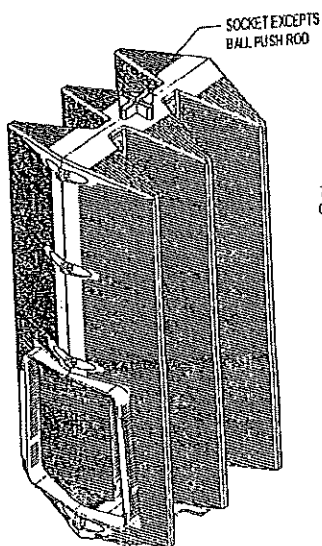
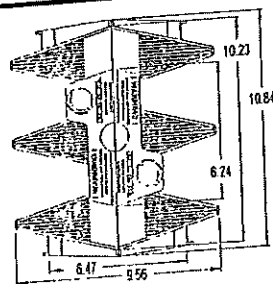
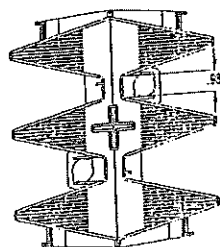
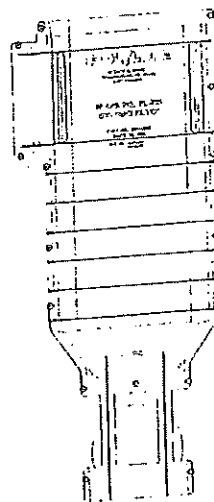
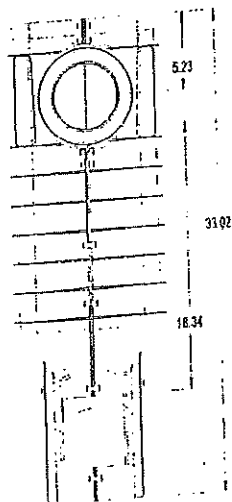
Ideal for residential and commercial waste flows up to 10,000 Gallons Per Day (GPD).

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the 4" or 6" outlet pipe. If the filter is not centered under the access opening use a Polylok Extend & Lok or piece of pipe to center filter.
4. Insert the PL-525 filter into its housing.

PL-525 EFFLUENT FILTER (COMMERCIAL)



HOUSING - POLYPROPYLENE
OUTLET BUSHING - PVC
6.5 BALL - HDPE



POLYLOK PL-525 FILTER CARTRIDGE
PART NO. - 30141-525
MATERIAL - POLYPROPYLENE

POWTS OWNER'S MANUAL & MANAGEMENT PLAN

Page 5 of 5

FILE INFORMATION

Owner	<u>Richard Bernis</u>
Permit #	

DESIGN PARAMETERS

Number of Bedrooms	<u>4</u>	☐ NA
Number of Public Facility Units		☒ NA
Estimated (average) flow	<u>400</u>	gal/day
Design (peak) flow = (Estimated x 1.5)	<u>600</u>	gal/day
Soil Application Rate		gal/day/ft ²
Standard Influent/Effluent Quality	Monthly average*	
Fats, Oil & Grease (FOG)	≤30 mg/L	
Biochemical Oxygen Demand (BOD ₅)	≤220 mg/L	☐ NA
Total Suspended Solids (TSS)	≤150 mg/L	
Pretreated Effluent Quality	Monthly average	
Biochemical Oxygen Demand (BOD ₅)	≤30 mg/L	
Total Suspended Solids (TSS)	≤30 mg/L	☒ NA
Fecal Coliform (geometric mean)	≤10 ⁴ cfu/100ml	
Maximum Effluent Particle Size	1/8 in dia.	☐ NA
Other:		☐ NA

*Values typical for domestic wastewater and septic tank effluent.

SYSTEM SPECIFICATIONS

Tank Manufacturer	<u>Ledgview</u>	☐ NA
☒ Septic ☐ Dose ☐ Holding	vol. <u>1500</u>	gal
Tank Manufacturer		☒ NA
☐ Septic ☐ Dose ☐ Holding	vol.	gal
Effluent Filter Manufacturer	<u>Polylok</u>	☐ NA
Effluent Filter Model	<u>#525</u>	
Pump Manufacturer		☒ NA
Pump Model		
Pretreatment Unit		☒ NA
☐ Sand/Gravel Filter	☐ Peat Filter	
☐ Mechanical Aeration	☐ Wetland	
☐ Disinfection	☐ Other:	
Manufacturer		
Dispersal Cell(s)		☐ NA
☒ In-Ground (gravity)	☐ In-Ground (pressurized)	
☐ At-Grade	☐ Mound	
☐ Drip-Line	☐ Other:	
Other:		☐ NA
Other:		☐ NA

MAINTENANCE SCHEDULE

Service Event	Service Frequency	
Inspect condition of tank(s)	At least once every: <u>3</u>	☐ month(s) (Maximum 3 years) ☐ NA ☒ year(s)
Pump out contents of tank(s)	☒ When combined sludge and scum equals one-third (1/3) of tank volume ☐ When the high water alarm is activated	☐ NA
Inspect dispersal cell(s)	At least once every: <u>3</u>	☐ month(s) (Maximum 3 years) ☐ NA ☒ year(s)
Clean effluent filter	At least once every: <u>3</u>	☐ month(s) ☐ NA ☒ year(s)
Inspect pump, pump controls & alarm	At least once every:	☐ month(s) ☒ NA ☐ year(s)
Flush laterals and pressure test	At least once every:	☐ month(s) ☒ NA ☐ year(s)
Other:	At least once every:	☐ month(s) ☐ NA ☐ year(s)
Other:		☐ NA

MAINTENANCE INSTRUCTIONS

Inspections of tanks and dispersal cells shall be made by an individual carrying one of the following licenses or certifications: Master Plumber; Master Plumber Restricted Sewer; POWTS Inspector; POWTS Maintainer; Septage Servicing Operator (pumper). Tank inspections must include a visual inspection of the tank(s) to identify any missing or broken hardware, identify any cracks or leaks, measure the volume of combined sludge and scum and a check for any back up or ponding of effluent on the ground surface. The dispersal cell(s) shall be visually inspected to check the effluent levels in the observation pipes and to check for any ponding of effluent on the ground surface. The ponding of effluent on the ground surface may indicate a failing condition and requires the immediate notification of the local regulatory authority.

When the combined accumulation of sludge and scum in any treatment tank equals one-third (1/3) or more of the tank volume, the entire contents of the tank shall be removed by a Septage Servicing Operator and disposed of in accordance with chapter NR 113, Wisconsin Administrative Code.

All other services, including but not limited to the servicing of effluent filters, mechanical or pressurized components, pretreatment units, and any servicing at intervals of ≤12 months, shall be performed by a certified POWTS Maintainer.

A service report shall be provided to the local regulatory authority within 10 days of completion of any service event.

GMW 12/021

START UP AND OPERATION

For new construction, prior to use of the POWTS check treatment tank(s) for the presence of painting products, solvents or other chemicals that may impede the treatment process and/or damage the soil dispersal cell(s). If high concentrations are detected have the contents of the tank(s) removed by a septage servicing operator prior to use.

System start up shall not occur when soil conditions are frozen at the infiltrative surface.

During extended power outages pump tanks may fill above normal highwater levels. When power is restored the excess wastewater will be discharged to the dispersal cell(s) in one large dose and may overload them resulting in the backup or surface discharge of effluent. To avoid this situation have the contents of the pump tank removed by a Septage Servicing Operator prior to restoring power to the effluent pump or contact a Plumber or POWTS Maintainer to assist in manually operating the pump controls to restore normal levels within the pump tank.

Do not drive or park vehicles over tanks and dispersal cells. Do not drive or park over, or otherwise disturb or compact, the area within 15 feet down slope of any mound or at-grade soil absorption area.

Reduction or elimination of the following from the wastewater stream may improve the performance and prolong the life of the POWTS: antibiotics; baby wipes; cigarette butts; condoms; cotton swabs; degreasers; dental floss; diapers; disinfectants; fat; foundation drain (sump pump) discharge; fruit and vegetable peelings; gasoline; grease; herbicides; meat scraps; medications; oil; painting products; pesticides; sanitary napkins; tampons; and water softener brine.

ABANDONMENT

When the POWTS fails and/or is permanently taken out of service the following steps shall be taken to insure that the system is properly and safely abandoned in compliance with chapter Comm 83.33, Wisconsin Administrative Code:

- All piping to tanks and pits shall be disconnected and the abandoned pipe openings sealed.
- The contents of all tanks and pits shall be removed and properly disposed of by a Septage Servicing Operator.
- After pumping, all tanks and pits shall be excavated and removed or their covers removed and the void space filled with soil, gravel or another inert solid material.

CONTINGENCY PLAN

If the POWTS fails and cannot be repaired the following measures have been, or must be taken, to provide a code compliant replacement system:

- ☒ A suitable replacement area has been evaluated and may be utilized for the location of a replacement soil absorption system. The replacement area should be protected from disturbance and compaction and should not be infringed upon by required setbacks from existing and proposed structure, lot lines and wells. Failure to protect the replacement area will result in the need for a new soil and site evaluation to establish a suitable replacement area. Replacement systems must comply with the rules in effect at that time.
- ☐ A suitable replacement area is not available due to setback and/or soil limitations. Barring advances in POWTS technology a holding tank may be installed as a last resort to replace the failed POWTS.
- ☐ The site has not been evaluated to identify a suitable replacement area. Upon failure of the POWTS a soil and site evaluation must be performed to locate a suitable replacement area. If no replacement area is available a holding tank may be installed as a last resort to replace the failed POWTS.
- ☐ Mound and at-grade soil absorption systems may be reconstructed in place following removal of the biomat at the infiltrative surface. Reconstructions of such systems must comply with the rules in effect at that time.

<<WARNING>>

SEPTIC, PUMP AND OTHER TREATMENT TANKS MAY CONTAIN LETHAL GASSES AND/OR INSUFFICIENT OXYGEN. DO NOT ENTER A SEPTIC, PUMP OR OTHER TREATMENT TANK UNDER ANY CIRCUMSTANCES. DEATH MAY RESULT. RESCUE OF A PERSON FROM THE INTERIOR OF A TANK MAY BE DIFFICULT OR IMPOSSIBLE.

ADDITIONAL COMMENTS**POWTS INSTALLER**

Name	K&D Excavating Inc.
Phone	262-626-4464

POWTS MAINTAINER

Name	K&D Excavating Inc.
Phone	262-626-4464

SEPTAGE SERVICING OPERATOR (PUMPER)

Name	Cascade Septic
Phone	920-528-8084

LOCAL REGULATORY AUTHORITY

Name	Sheboygon City Planning Dept
Phone	920-459-3060

SOIL EVALUATION REPORT

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	Sheboygan
Parcel I.D.	59022313500
Reviewed by	Date

Property Owner Richard Bemis				Property Location Govt. Lot NW 1/4 NE 1/4 S 13 T 13 N R 20 E (or) ☒			
Property Owner's Mailing Address W7085 Hillside Drive				Lot # N/A	Block # N/A	Subd. Name or CSM# N/A	
City Adell	State WI	Zip Code 53001	Phone Number (920) 994-9026	☐ City	☐ Village	☒ Town	Nearest Road W7083/ W7085 Hillside Dr

☐ New Construction Use: ☒ Residential / Number of bedrooms 4 Code derived design flow rate 675 GPD
☒ Replacement ☒ Public or commercial - Describe: At Home Floral Arrangement Business
 Parent material Debris Flow Till Flood Plain elevation if applicable N/A ft.
 General comments and recommendations: Purpose Of Soil Pit #1 Is To Determine Code Compliance Of Existing Seepage Pit & Trench For The Replacement Of Structurally Defective Septic Tank; Seepage Pit System Elevation 90.44'

1 Boring # ☐ Boring ☒ Pit Ground surface elev. 96.44 ft. Depth to limiting factor 100 in.

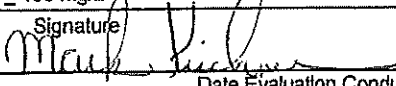
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate GPD/ft ²	
									*Eff#1	*Eff#2
Ap	0-10	10YR 3/2	N/A	sil	(2)fsbk	mvfr	as	(3)vf	0.6	0.8
C1	10-	10YR 5/4	N/A	CBs1	(2)fsbk	mvfr	-	(1)vf	0.6	1.0
	100					With Inclusions Of				
		10YR 5/4	N/A	CBfs	(Ø)sg	m1	ab	(1)vf	0.5	1.0
		10YR 5/4	N/A	CBvfs	(Ø)m	mvfr	ab	(1)vf	0.4	0.6
		10YR 5/4	N/A	CB	(Ø)sg	m1	ab	(1)vf	0.7	1.6
				meds		C1 Horizon Has 34% Coarse Fragments				

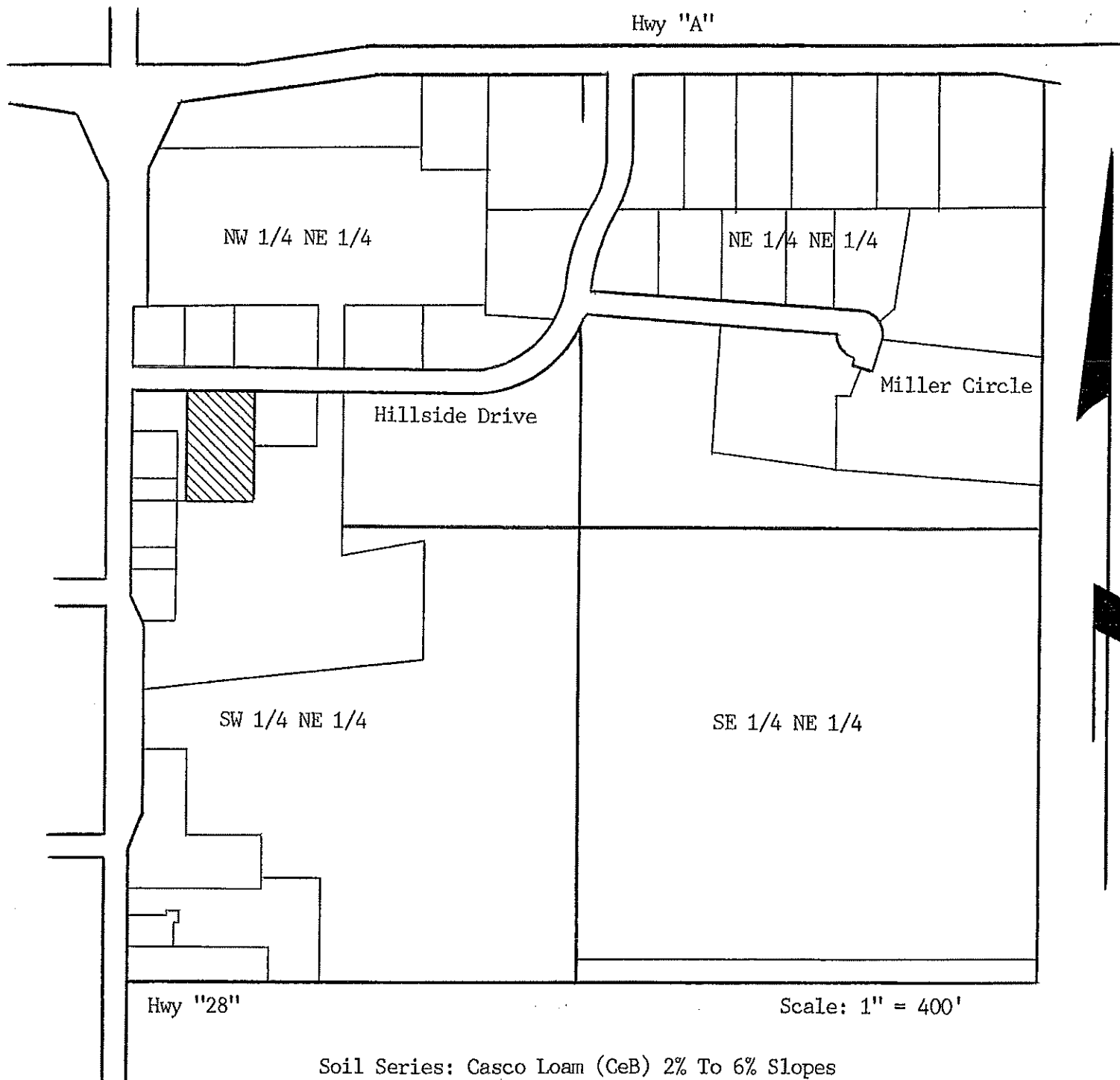
2 Boring # ☐ Boring ☒ Pit Ground surface elev. 96.44 ft. Depth to limiting factor 100 in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate GPD/ft ²	
									*Eff#1	*Eff#2
Ap	0-10	10YR 3/2	N/A	sil	(2)fsbk	mvfr	as	(3)vf	0.6	0.8
BC	10-20	7.5YR 3/4	N/A	sc1	(2)fabk	mfr	cw	(2)vf	0.4	0.6
C1	20-	10YR 5/4	N/A	CBs1	(2)fsbk	mvfr	-	(1)vf	0.6	1.0
	100					With Inclusions Of				
		10YR 5/4	N/A	CBfs	(Ø)sg	m1	ab	(1)vf	0.5	1.0
						C1 Horizon Has 20% Coarse Fragments				

* 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) Mark Kirchner	Signature 	CST Number 224701
Address 8298 Kettleview Drive Kewaskum, WI 53040-9481	Date Evaluation Conducted May 6, 2010	Telephone Number (262)626-4848



Soil Series: Casco Loam (CeB) 2% To 6% Slopes

Soil Sheet #68 Of Soil Survey Book Of Sheboygan County,
Wisconsin

 Denotes "Site"

SOIL EVALUATION REPORT

Page 2 of 2

In accordance with Comm 65, 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)).

Property Owner Richard Remis		Property Location NW 1/4 NE 1/4 S 13 T 13 N R 20 E (or) X	
Property Owner's Mailing Address W7085 Hillside Drive		Lot # N/A	Block # Subd. Name or CSM# N/A
City Adell	State WI	Zip Code 53001	Phone Number (920) 994-9026
Nearest Road W7085 Hillside Dr		City Scott	Town W7085 Hillside Dr

☐ New Construction	Use: ☒ Residential / Number of bedrooms 4	Code derived design flow rate 675	GPD
☒ Replacement	Parent material: ☒ Public or commercial - Describe: At Home Floral Arrangement Business	Flood plain elevation if applicable N/A	ft.
General comments and recommendations: Double Compartment Septic Tank With Effluent Filter; 0.40 Gallons/Sq Ft/Day & 2.00 Gallons/Linear Ft/Day Infiltrative Area With EZ Flow In-Ground Distribution Cells For Future Replacement Area; System Elevation 92.44'			

Boring #		Pit	Ground surface elev. 92.44	ft.	Depth to limiting factor 30	in.	Soil Application Rate					
							Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*E#1 GPD/ft ²	*E#2
3												

☐ Boring #	Boring #	Pit	Ground surface elev. 94.44 ft	Depth to limiting factor 100 in.	Consistence	Boundary	Roots	Soil Application Rate	
								GPD/ft²	
								*E#1	*E#2

CST Name (Please Print) Mark Kinchneer		Signature <i>Mark Kinchneer</i>		CST Number 224701	
Address 8298 Kettlevue Drive		City Kewaskum, WI		Zip 53040-9481	
Date Evaluation Conducted May 6, 2010		Telephone Number (262) 626-4848			

▲ BM Denotes Benchmark Top Of Concrete Garage Floor @ Over.
Door Assumed Elevation 100.00'

• W Denotes Existing Well

○ ST Denotes Existing Structurally Defective 500 Gallon Precast Septic Tank;
Estimate Flow Line Of Effluent Line @ Septic Tank Outlet @ El. 97.19'

○ SP Denotes Existing 500 Gallon Precast Concrete Seepage Pit In Fair Condition;
Estimate Flow Line Of Seepage Pit Outlet @ Elevation 94.44'

Estimate Seepage Pit System Elevation @ 90.44'

--- SAT Denotes 130 Ft x 5 Ft Soil Absorption Trench (650 Sq Ft);

Estimate System Elevation Of Soil Absorption Trench @ Seepage Pit @ Elevation 93.44'

☁ Denotes Deciduous Trees

☐ Denotes Decks

★ Denotes Coniferous Trees

Estimated Daily Wastewater Flow From At Home Floral Arrangement Business

Retail Space

448 square feet x 70% of floor space = 313.6 square feet/30 square feet per patron = 10.45 patrons, say 11 patrons x 1 gallon per patron = 11 gallons

Employees

1 employee x 13 gallons per employee = 13 gallons

Floor Drains

1 floor drain x 25 gallons per drain = 25 gallons

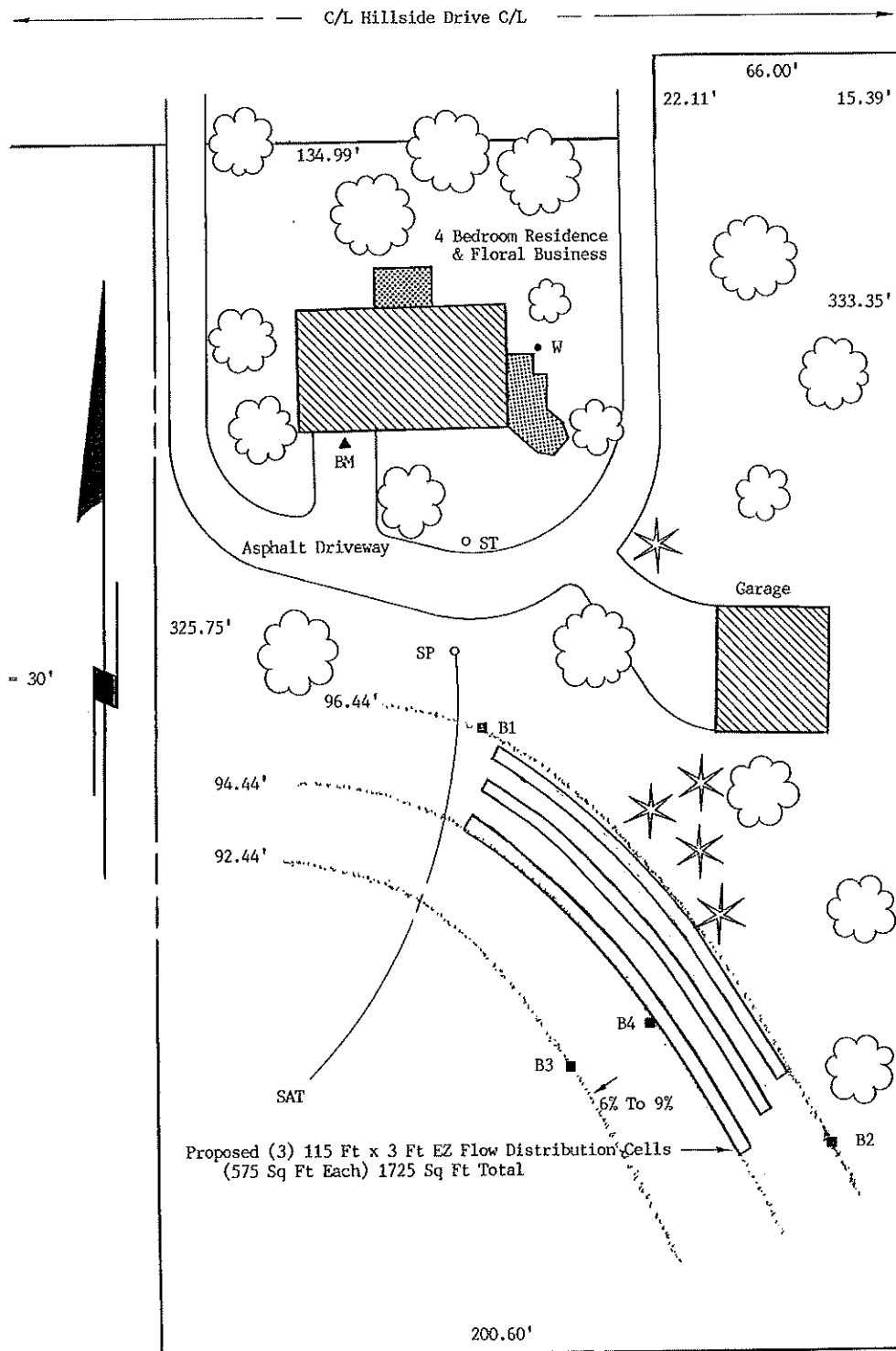
Total Daily Estimated Wastewater Flow

11 gallons retail space usage + 13 gallons employee usage + 25 gallons floor drain usage = 49 gallons per day, say 50 gallons per day

Total Daily Design Wastewater Flow From At Home Floral Arrangement Business

50 gallons per day x 1.5 safety factor = 75 gallons per day design wastewater flow

Scale: 1" = 30'



Existing POWTS Specifications & Treatment Capabilities

Existing structurally defective precast concrete septic tank is purported to be 500 gallons in size and installed in early 1960's per owner.

Existing seepage pit was determined to be in fair condition & at full operating capacity. Existing seepage pit is purported to be 500 gallons in size and installed in early 1960's per owner.

No vent pipe installed on existing seepage trench, assume system elevation of seepage trench to be 3 ft below existing grade.
(12 inches aggregate beneath 4 inch diameter tile with 2 inches of aggregate over tile & 18 inches soil backfill depth over tar paper barrier)

Existing seepage trench purported to have been installed with seepage pit in early 1960's per owner. Unable to determine operating condition of existing seepage trench

Soil/Site Evaluators' personal field experience in performing percolation tests indicates that the evaluated soils at soil pit #1 would have resulted in a percolation rate of less than 10 minutes per inch.

Utilizing Tables #1 & #2 from ILHR 83.12 Wisconsin Administrative Code & the following formula (Factor in Column 3, Table 2) x (Number of units) x (Minimum Absorption Area from Table 1), the minimum absorption area for a retail space utilizing a seepage pit would have been as follows:

Floor Drains

A factor of 1.0 x 1 floor drain x 110 sq ft = 110 sq ft

Employees

A factor of 0.4 x 1 employee x 110 sq ft = 44 sq ft

Retail Store (at home floral arrangement business located in lower level)

(Number of customers = 70% total area divided by 30 sq ft per customer)

448 sq ft retail space x 70% = 313.6 sq ft / 30 sq ft per customer = 10.45 customers
say 11 customers

A factor of 0.03 x 11 customers x 110 sq ft = 36.3 sq ft

110 sq ft + 44 sq ft + 36.3 sq ft = 190.3 sq ft seepage pit area required

Utilizing Table #1 from ILHR 83.12 Wisconsin Administrative Code, the minimum absorption area for a 4 bedroom residence utilizing a seepage trench would have been as follows:

4 bedroom residence x 165 sq ft per bedroom utilizing a seepage trench = 660 sq ft seepage trench area required.

Minimum Absorption Area Required = 190.3 sq ft + 660 sq ft = 850.3 sq ft total.

Utilizing Table 3 from ILHR 83.13 Wisconsin Administrative Code, the effective area of the existing seepage pit based upon a 7 ft diameter seepage pit + 1 foot wall thickness + 1 foot annular space & 4 foot liquid depth is 126 sq feet.

The effective area of the purported 130 ft x 5 ft seepage trench is 650 sq ft.

126 sq ft + 650 sq ft = 776 sq ft existing effective area.