

ON-SITE SEWAGE SYSTEM CONSTRUCTION PERMIT

Parcel#	400126 406079	:		_ Permit Approval Date: _	07-10-2006
Name	Grandview Golf	First		Permit Expiration Date:	07-10-2011
Site address	7738 Portal W			Phone Number	MARKATAN CO-POLICIO SERVICE VIVI
Installer				· .	
24.05 On-Si	agreed that the insta ite Sewage Control PARTMENT IS REC	Regulations	s. A FI	shall comply with all applicable NAL INSPECTION, BY THE VOVERING.	requirements of WCC NHATCOM COUNTY
requirement, with other ag	such as building coo jency permit requiren	des or zonii nents, such	ng ordin as obta	signify fulfillment or satisfaction ances. Permit holders are caut ining a land disturbance permit to implished prior to commencemen	ioned that compliance from Whatcom County
Operation an OSS.	nd Maintenance (O&N	/i) is require	d for eve	ery OSS. Attached are the O&A	I requirements for this
I have read a	and understand the al	bove statem	nents	Signature of owner/age	
	entional gravity	: : ::hutian		OSS to be installed ON licensed installer. Hom	-
Alterna	entional pressure dist ative System: Sand filter Aerobic Treatment L ATU w/disinfection			may not install OSS.	
Other	Pressure mound Non-pressurized mo Glendon Biofilter	und;		·	
Comments/C					g o op vice and in the contract of the contrac
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Fee \$	Receip	t	,	inal Inspection By	
Received By	Date	1-10-4		Date	-

Hand Grand Me w fools Health Bepartment Fee S90, Health Bepartment Fee S90, Health Bepartment Fee S90, Health Bepartment Fee S90, Health South May Society Fee Was 98242 320 Sellington May 20225 Date 7-6-01. Address of Site 7738 Partal Way Rd. 3 Miles S E W of Marie R Sellington May See S E W of Marie R Sellington May Rd. 3 Miles S E W of Marie R Seption tank capacity 1000 gallons Receiving soil loading rate 1.0 gal/sq. ft. disposed Seption tank capacity 1000 gallons Receiving soil loading rate 1.0 gal/sq. ft. disposed Seption tank capacity 1000 Sellington Materials Sellington See Section Section Section See Section Se		ite Sewage System (OSS) Ap	plication
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Parcel # 10012 6406 079 Notice September 1 1000	Toot Wret	509 Girard Street	Receipt# 1914
Address of Site 7738 Partal Way Parcel # 10012 6406079 No S D W Side of Partal Way Rd 13 Miles B S B W of Minic R Septic tank capacity 1000 gallons Receiving soil loading rate 1.0 gal/sq.ft./dt Pump tank capacity 930 1000 w/l gallons Water Table Depth 60" t APPLICATION TYPE: D New Construction Repair D As-built D Expansion Soil horizons to 5" or impermeable layer: I hereby certify that the loss may be submitted on this design second and meets all requirements of Williams of Sewage System Repsis 10 Sewage System Repsis 10 Sewage System Repsis 10 Date of Submitted Page of the cheet. Waster makes and requirements of Waster makes I health Department Use Only - page of the cheet. Waster makes and comments States and confidence of the states of the sewage System Type Converticed Converty Comments States As States day a best states of the sewage States and the sewage States of	Custer Wa. 982402-	Control of the contro	
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Pursuant to WCC 24.05.27 (1) Notice of decision - Adjudicative Proceeding "Any decision or action of the local health officer with respect to installation permits of an OSS may be appealed to the Sewage Control Appeals Board." Contact Environmental Health for further information and the procedure. A fee is charged.

BID DESIGN

Rob VanderVeen 2074 Willeys Lk. Rd. Custer Wa. 98240

Phone 360 384 6333 / Fax 360 384 6333

GRANDVIEW GOLF CLUB HOUSE

Date 7/6/06

PROPOSED EFFLUENT SOURCE INFORMATION

Facility will be used for golfers rest and refreshment and staff.

3 club house staff plus up to 7 in the shop using EPA info. $10 \times 10 \text{ GPD} = 100 \text{ GPD}$.

The peak water flow according to meter reading was 1675 gallons for a month. Less at least 25% for out door equipment cleaning. 1675 - 25% = 1256 / 30 days = 42 GPD.

Highest use month served 4090 patrons. EPA estimates about 2 GPD minimum per similar patron. The minimum rate is justified by water meter readings. 4090 / 30 X 2GPD = 273 GPD may be produced from patrons using EPA estimates.

100 GPD for staff plus 273 GPD from patrons for a total of up to 373 GPD currently needed. 107 GPD extra capacity built in to provide for safety-and possible-fature expansion. Perhaps up to 5000 or more patrons per month may be acceptable.

Club house seats up to 44 patrons. Beer, soda, hot dogs, and chips are typically served.

Refreshment counter equipment listed below.

3 residential style refrigerators.

2 residential style freezers.

1 walk in freezer.

1 3 compartment sink.

1 mens washroom - 1 sink, 1 urinal, 1 toilet.

1 Ladies washroom - 1 sink, 2 toilets.

1 microwave oven

1 hot dog rousserie

1 toaster oven

Beer served in glasses. Tongs for hot dogs. All other items to be served in to go disposable containers. Preparation will not include mixing or blending. All left over or spoiled food must be thrown out with the trash, not down the drain. The intent is to limit the need for washing containers, utensils, and blenders in an effort to protect the sewage disposal system from high volume and high waste strength.

The occasional events are catered.



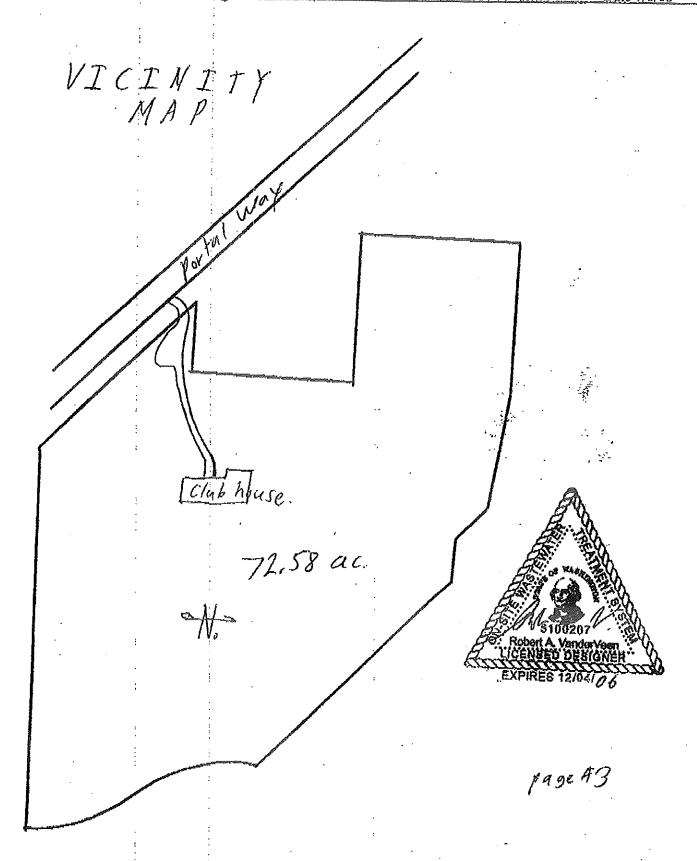
Name Grandview Golf

(SDS) Sewage Disposal System Design

Site Portal Way Rd.

Designer Rob Vander Veen / Bid Design

Date 7/6/06



Name Grandview Golf

(SDS) Sewage Disposal System Design

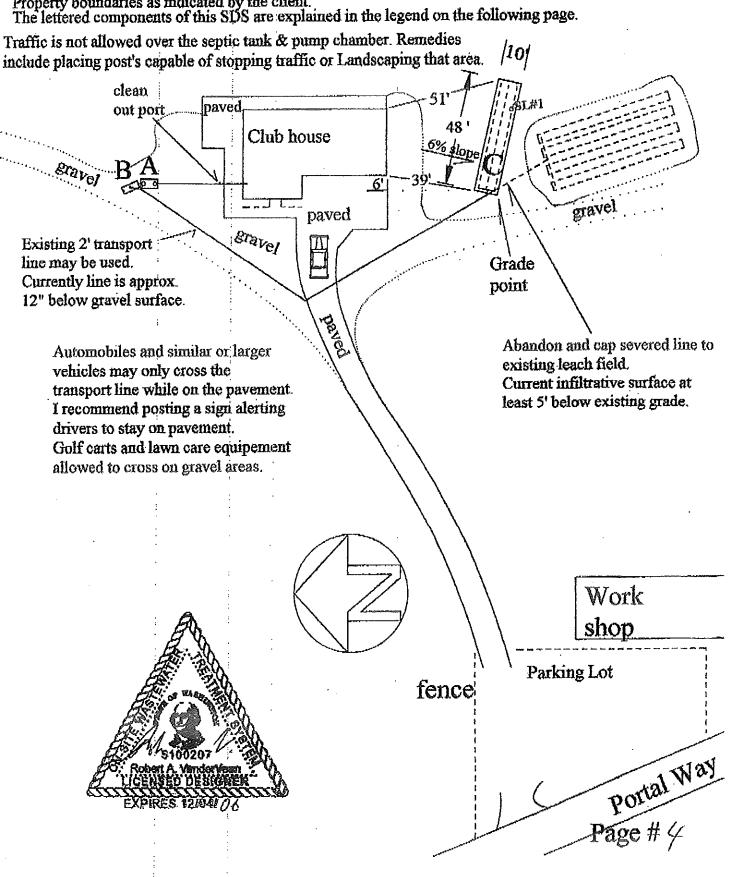
Site Portal Way Rd.

Designer Rob Vander Veen / Bid Design

Date 7/6/06

40'-1" scale of SDS components & features of influence measured topographically.

Property boundaries as indicated by the client.

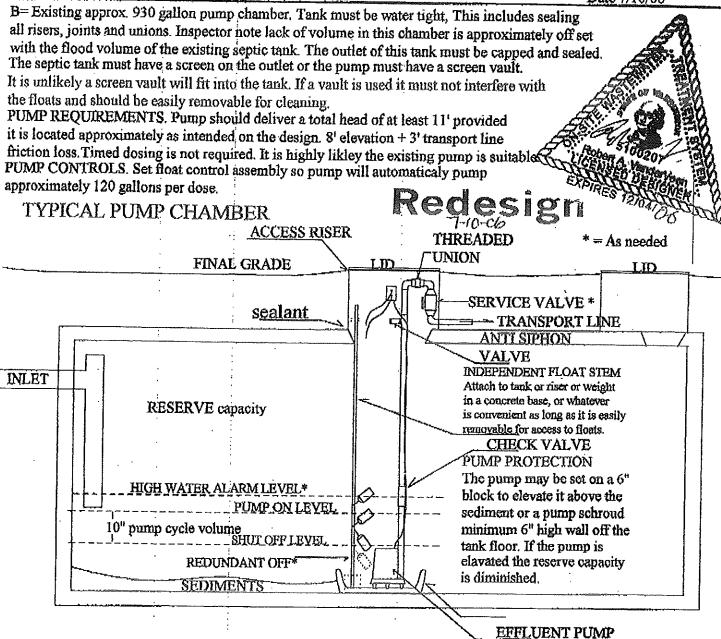


Owner Grandview Golf Site Portal Way Rd.

PUMP CHAMBER no scale this page

Designer Rob VanderVeen / Bid Design

Date 7/10/06



OTHER REQUIREMENTS AND COMMENTS:

Access to the chamber manholes must be at final grade, risers may be used to accomplish this. The chamber must be water tight and includes sealing all joints and unions, especially on sites with a high water table.

CAUTION: A larger dose such as could happen if operating the pump manually can be harmfull to the system. OPTION: Typically an alarm panel is attached to a post near the pump chamber. Some home owners may want to locate the panel on or near the building. In my opinion pumps with longer leads or an electrician should be able to facilitate this.

TANK VOLUME approximately 12 gallons per inch of depth.

SEWAGE DISPOSAL SYSTEM PRESSURIZATION WORK SHEET

OWNER Grandview Golf
SITE Portal Way Rd.
DESIGNER Rob VanderVeen / Bid Design

Date 7/6/06

A Daily wastwater flow 480 gallons.

(120 gal/day X 3 bedrooms)

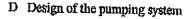
- B 1. Infiltration rate of fine sand 1.0 gal / sq ft / day 480 sq ft bed area.
 - 2. Bed configuration: (A) 10' wide.

(B) 48' ft long, total 480 sq ft bed area.

C Distribution system design: (pipe is schedule 40)

1&2 Orifice diameter: 3/16;" at 30 " spacing. Oriented at 6 O'clock

- 3. Lateral length: 47' (48' bed length -1'=47')
- 4. Approximately 18 orifices per lateral (47' lateral / 30")
- 5. Lateral diameter 2"
- 6. Laterals spaced 3.5' apart and 1.5' from bed edges
 7&8 Transport pipe: 2" diameter, 200' long
 9&10 Manifold diameter: 2", length is 6'



- 86 gallons is 7 X lateral volume + manifold and transport drain volumes
 Dose volume of loamy sand is 120 gallons
 Dosing volume will be 120 gallons at a daily frequency of 4
- 2. 930 gallon pump chamber.
- Pump capacity: 28 gallons a minute
 0.59 orifice discharge rate X 3 laterals X approximately 18 orifices
- 4. Total pump head: 11'
 - 6' elevation difference
 - 3' friction loss
 - 2' residual pressure (head desired)
- Suggested pump selection: 1/3 4/10 HP.



Name Grandview Golf Site Partal Way Rd.

SEWAGE DISPOSAL SYSTEM DESIGN legend

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Designer Rob VanderVeen Bid Design

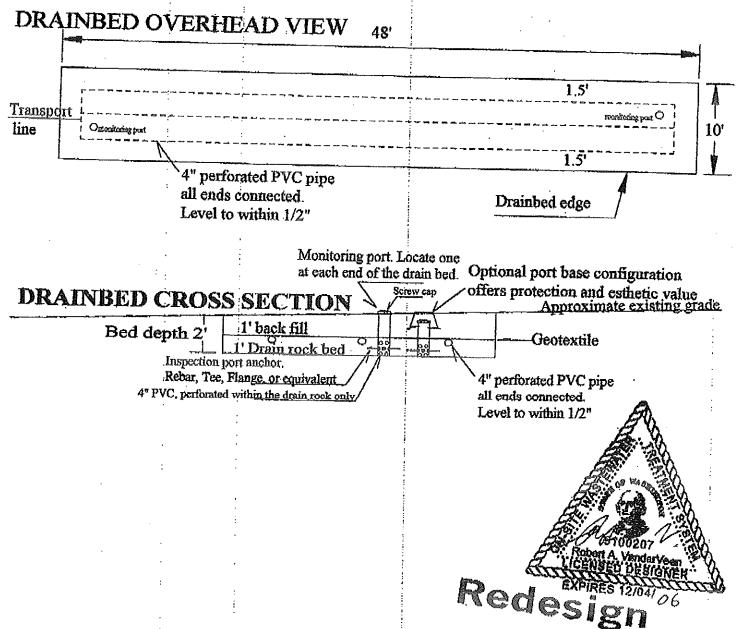
7/10/06

A= Existing 1000 gallon capacity two compartment septic tank. Model (SUPER TANK). Suplier is Premier Plastics LTD 1 800 61 4473. Access to the tank manholes must be within 12" of final grade and topography must slope away from manholes for 5' or more, risers may be needed. Manhole covers and or risers must be water tight. Pump must be removed and a 4" tight line installed from filtered outlet to neighboring pump chamber. Gravity flow must be attained or system must be redesigned to include a new nump chamber.

B Existing approx. 930 gallon pump chamber. Appears in good condition. Details on following pages.

C= Drainbed, 48' long by 10' wide by 24" deep from grade point and level to within 1".

After inspection place geotextile and backfill



The existing grade at the grade point shown on the plot scketch is the grade point for measuring excavation depths. The bottom of the drainbed must be excavated level and the soil at the bottom of the excavation must not be smeared, pulverized or compacted during the excavation. The cover soil or backfill placed over the drainbed must be permeable. Call before you dig 1 800 424 5555.

Page # /