

GOV ASHING TO SSION

DISPOSAL SECTION Scale: 1" = 5 ft horiz

Project: #2006-2296

Location: 40 Bunker Rd., Copalis

Parcel No. 191115410020

Date: 8-15-08

JG Engineering

Revisions:

P.O. Box 97 Humptulips, WA 1.1-15-08

98552

2. 8/15/08 as Su 3.

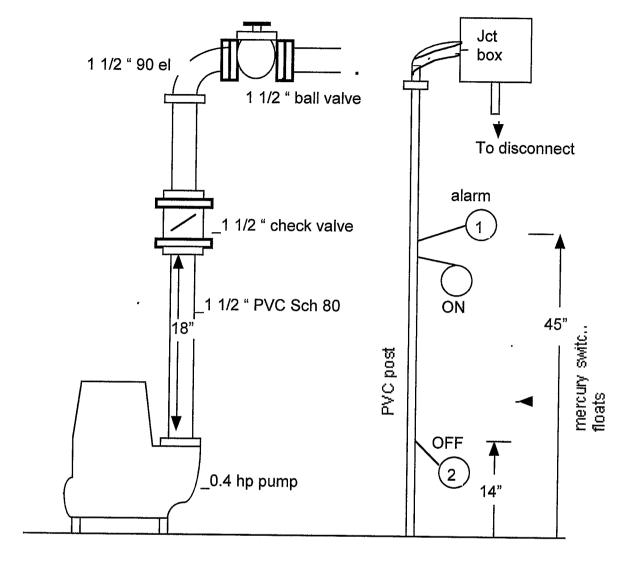
Sheet No. 4

SPECIFICATIONS

All materials installed on this project must meet the qualifications listed by the Washington State Department of Health and Grays Harbor County Health Dept. Questions shall be addressed to the Designer.

- 1. Septic and pump tanks shall meet the standards set forth by the Grays Harbor County Environmental Health Dept. and be tested and listed.
- 2. Effluent screen in septic tank shall be Orenco , or approved equal meeting the standards in the WSDOH Guidelines For The Use Of Pressure Distribution Systems.
- 3. Pump tank shall have a 24-inch diameter riser extending to ground surface for O&M of pump and controls. Riser shall be sealed to prevent water from entering the tank.
- 4. Pump shall be a septic effluent unit capable of passing 1/2 inch solids. The 0.4 HP units shall develop at least 22 ft TDH while pumping 30 gpm. The unit shall have a lifting mechanism with positioner that shall remain corrosion resistant. Pump shall be approved by the designer prior to installation. The (0.3 1.0) horsepower pumps must operate at 115 volts; 2 hp pumps at 230 volts.
- 5. Pump control floats shall be mounted on a 3/4 inch hard-drawn copper tube or on a 1-1/2 inch PVC DR 21 pipe securely mounted to the tank or pump effluent screen. Floats shall be Mercury switch type, solid polyurethane, leakproof, shockproof and corrosion resistant in domestic sewage. Floats shall be rated for16 AMPS at 120 volts. Pump operation shall be controlled with a SJE RHOMBUS double float (P/N 1002038). Pump and in-tank control enclosures shall be NEMA 7, EXPLOSION PROOF, unless pump remains submerged during operation, then INTRINSICALLY SAFE electrical construction is required. A PUMP START event counter shall be installed in the electrical system.
- 6. Pump Alarm shall be mounted on a pressure treated 4 x 4, unless approved otherwise, and be equipped with a "RED" alarm light visible for at least 100 feet and an audible horn, with manual silencer.
- 7. Pump check valve shall be internal flapper type, rated for domestic water use and 150 psi service. The check valve shall be installed 18 inches above the pump outlet in the vertical position.
- 8. Pump throttle valve shall be bronze gate valve, or PVC Ball valve, rated for domestic water service at 150 psi.
- 9. Lateral throttle valves shall be PVC ball valve rated for 150 psi service.
- 10. The pump tank screen, if used, shall be stainless steel or durable plastic, 1/8th inch mesh. The screen shall be secured to the 15 inch pipe with stainless steel clamps, corrosion resistant in domestic sewage. The pump influent screen is not necessary if the septic effluent is screened according to #2 above.
- 11. Pipe to 5'-0" outside the pump tank shall be PVC Sch 80, of the same size as the pump discharge or larger.
- 12. Pipe used to transport flow to the header, the header and the laterals shall be PVC, Sch 40 or SDR 21
- 13. Plastic valve box shall be durable polyurethane 15 inches deep with locking lid, Ametech or approved equal.
- 14. Gravel, if used as the percolation media, shall be 1/2" to 3/4" washed gravel free of all fines and organic material, and compacted before installation of the lateral pipes. all drainrock shall have been approved for quality by the designer prior to installation.
- 15. Fill material used on top of the percolation gravel shall be silty loam capable of growing yard grasses. The area over the drainfield shall be seeded with a fast growing grass seed mix.
- 16. A geotextile used over the lateral trench or bed shall be as approved by the County Health Dept.
- 17. The percolation media, or gravelless chamber used in the trench or bed, shall be placed in a volume excavated from native soils the entire length of the lateral.
- 18. The entire operational system shall be tested according to the WAC 246-272 in the presence of the designer and a representative from the County Health Dept.





SEWAGE EFFLUENT PUMP

Project: #2006-2296

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Date: 8-15-08

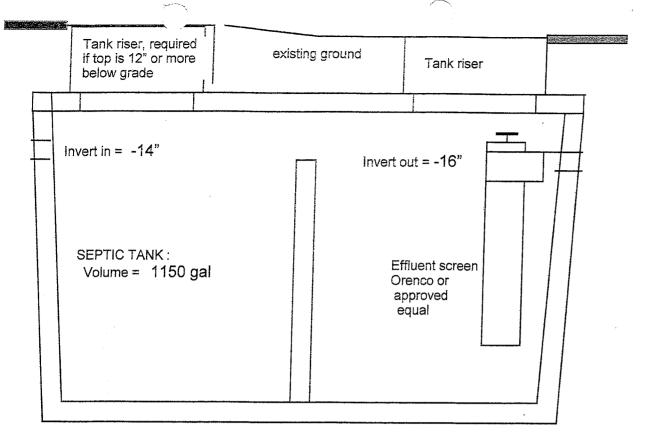
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Sheet No. 3



DESIGN CONDITIONS

NOTES: Elevations referenced to LOCAL CONTROL

- 1. Flow (GPD) 3-BDRM, 360GPD
- 2. Septic tank (gal) 1150
- 3. Pump tank (gal) 1150
- 4. Transport pipe (inches) 2"
- 5. Manifold (inches) 2"
- 6. Disosal Area 360/0.4 (sqft) 900 sqft

40% REDUCTION Area = 540 sqft

Length = 216 ft

7. Laterals

Number 3

Length (feet) 72 ' Size (inches) 1.5"

8. Soil Type Type 5 9. Loading rate - 0.4

(GPD per sq ft)

10 Dosing -

a. 2 - times / day

b. Design Flow - 180 gal / dose

11. Orifices- 112

a. Size 1/8 "

b. Orientation UP

c. Spacing 18"-24"

12. Valves

a. 1 - 1 1/2" check

b. 1 - 1 1/2" PVC ball

c. 3 - 1" PVC check

3 - 1" PVC ball

13. Pump - septic

a. Horsepower - 0.4

b. Flow (gpm) - 45.9

c. TDH (ft) - 20

14. Controls 110v, 3 float Orenco S1 Panel

15. Elevations

a. Septic in: -14"

b. Pump in : -16"

c. Disposal invert: 12"

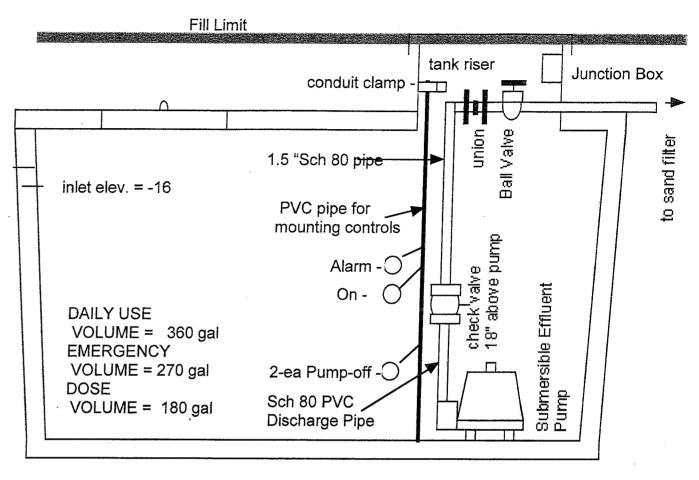
d. Lateral invert: 18"

e. Pump Off : -52"

f. Pump on : -45 "

g. Alarm : -43 "





PUMP TANK 1150 gal (min)

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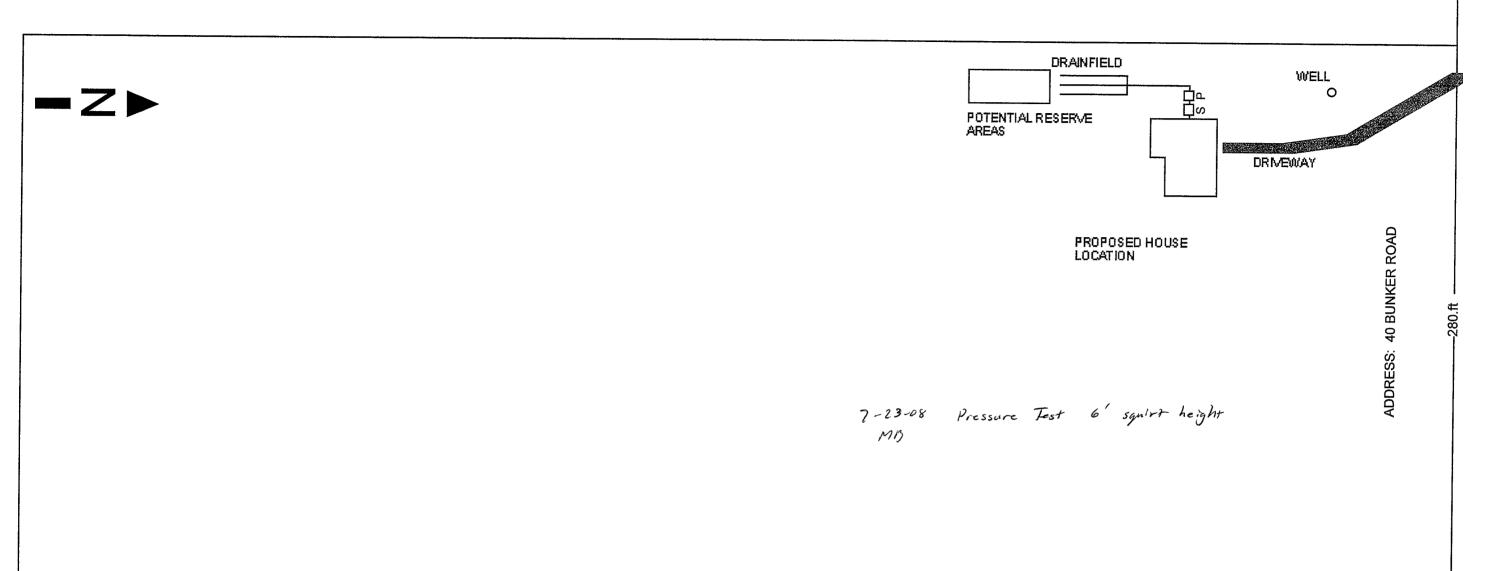
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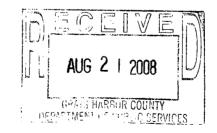
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Sheet No. 2



Scale: 1" = 50 ft



Project: #2006-2296

Location: 40 Bunker Rd., Copalis Parcel No. 191115410020

Date: 8-15-08

JG Engineering P.O. Box 97

Revisions: 1.1-15-08

Humptulips, WA 98552

2. 8/15/08 as built 3.

Sheet No. 1

East North



100 W Broady Suite 31 Montesano, WA 98563 360-249-4413 360-249-3203 fax

For Office Use Only						
Date Received						

Fee_

FAID! 11-03-2006/11:25 AM <u>USER:BA l</u>otal:\$450.00 Receipt#

PROR	
	GRAYS HARBON OUNTY
	DEPARTMENT OF PUBLIC SERVICES
	ENVIRONMENTAL HEALTH DIVISION
1854	

001
ON-SITE SEWAGE APPLICATION Legal Description lot 4 15 w 350 15 RE LSW 350 REPAIRED SYSTEM EXPANDED SYSTEM EXISTING SYSTEM
Site Address 40 Bunker Rosed Copalis Crossing Was 98536
Name Clark Wenger Signature Clark Colym
Mailing Address PO Box 682 City Cossing
State Wes Zip 9836 Phone (360) 589-2117
Section 5 Township 19 Range 11 Parcel # 1911 5410020
Subdivision Name Div Lot Block
Directions to Site ao north on 101 to Sinjertic RD open 8 mile to Bunker road
Property Size Opres 4 of Bedrooms 3 Basement Plumbing: DYES NO
Type of Building: ✓ Single Family ☐ Multi-Family ☐ Food Establishment ☐ Commercial
Water Supply: ☐ Individual ☐ Public ☐ 2 Party Name of Water Supply
Proposed Remodel: # of Bedrooms Existing Proposed Total
Other Additions: 🔲 Recreation Room 🔲 Garage 🔲 Carport 🔲 Shed 🔲 Patio 🔲 Mobile
Year sewage permit was issued Original Owner or Builder Name
Sewage Installer land owner Clarkon Venger System Designer NA
FOR ENVIRONMENTAL HEALTH USE ONLY
Soil Type 5.17 Loan Application Rate 0.4 gpd /fr Existing Permit # N/A
Depth of Water Table or Indicators 36 inches (hardpan) Date 11-20-06
Absorption Area Square Feet
Drainfield Total Length Feet Date Record of Action By
Trench Depth 1 6 Inches 11/20/06 Site Evaluation 17/3
Trench Width Johns 1-29-08 Plan Review MB. Gallons 7-23-08 Pressure Test - OK MB.
Septic Tank Ganons
Comments: See engineered plans by John Gow. Maintain 100 ft setback from well.
C C C
Plaintain draintield and reserve areas tree of structures and
Approved MIS Final As Built Received
& Issued 1-29-08 By Miskut Suburn Inspection 8-21-08 By Market 3000000000000000000000000000000000000
Hold 11/22/06 Reason Design Required By Mished Senhan
Disapproved
20062296 THIS PERMIT EXPIRES 11-22-08 Permit # 2006 2296

DEPARTMENT OF PUBLIC SERVICES

100 W. BROADWAY, SUITE 31 MONTESANO, WASHINGTON 98563-3614 PHONE (360) 249-4222 FAX (360) 249-3203



F. PAUL EASTER DIRECTOR

GRAYS HARBOR COUNTY

STATE OF WASHINGTON

Public Services

Kevin Varness, Asst. Director 360-249-4222

Fax

360-249-3203

P O Box 682 Copalis Crossing, WA 98536

Public Works

Russ Esses, Co. Engineer Phone: 360-249-4222

On-site sewage application; Parcel #191115410020

Permit #2006-2296

360-249-2153

Dear Mr. Wenger:

November 22, 2006

Clayton Wenger

Planning & Building Brian Shea, Director Phone: 360-249-5579

360-249-3203 Fax:

Environmental Health Douglas George, Director

Phone: 360-249-4413 360-249-3203

We are in receipt of your application for an on-site sewage disposal permit for the above referenced property and conducted an on-site inspection on November 20, 2006. Two test holes were inspected and it has been determined that the site is not approvable for the installation of a conventional gravity system. The reason for this decision is due to a restrictive hardpan layer 36 to 38 inches below the grade of the test holes. Current regulations require a minimum of 36 inches of separation between the bottom of a conventional drainfield and a water table/restrictive layer. This requirement cannot be met.

Utilities & Development Kevin Varness, Director Phone: 360-249-4222

Fax: 360-249-3203 In order to proceed with your proposal, you must contact a licensed designer or professional engineer to further evaluate the property and design a system, which will meet current state and county regulations. Your application will be placed on hold until an approvable plan is submitted for review and approval and any further proposals will be considered for two years at which time this application will expire.

Facility Services Dennis Selberg, Director Phone: 360-249-4222 360-249-2753 Fax:

If you have any questions, please contact this office at (360) 249-4413.

Sincerely,

Emergency & Risk Management Anne Sullivan, Manager

Phone: 360-249-3911 360-249-3805 Fax:

Michael A. Bernheine

Environmental Health Specialist

MAB/tab

Grays Harbor Co. Web Page co.grays-harbor.wa.us

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DEPARTMENT OF PUBLIC SERVICES

100 W. BROADWAY, SUITE 31 MONTESANO, WASHINGTON 98563-3614 PHONE (360) 249-4222 FAX (360) 249-3203



F. PAUL EASTER DIRECTOR

GRAYS HARBOR COUNTY

STATE OF WASHINGTON

Public Services

Kevin Varness, Asst. Director Phone: 360-249-4222

360-249-3203

JG Engineering

January 29, 2008

P.O. Box 97

Humptulips, WA 98552

Public Works

Russ Esses, Co. Engineer Phone: 360-249-4222

Fax:

360-249-2153

Septic System Design Review for Parcel #191115410020

Permit # 2006-2296

thirty (30) days after installation.

Dear Mr. Gow:

Planning & Building

Brian Shea, Director Phone: 360-249-5579

360-249-3203

A review of the above referenced design plan has been performed and approved, provided the following conditions are met:

Environmental Health

Jeff Nelson, Director Phone: 360-249-4413 360-249-3203

- 1) A final inspection (i.e. pressure testing system, etc.) and certified detailed "asbuilt" drawing of the systems installation are required. Provide "as-built" within
- 2) A final inspection and pressure testing by the Health Department. All controls must be connected and functioning at the time of the final.

Utilities & Development Kevin Varness, Director Phone: 360-249-4222 360-249-3203 Fax:

3) Performance monitoring of the pressure distribution system is required in accordance with current state and county regulations. The health officer and/or his authorized representative, after proper identification, shall be permitted the right of entry and/or the right to inspect.

Should you have any questions, please contact this office at (360) 249-4413.

Facility Services

Dennis Selberg, Director Phone: 360-249-4222

360-249-2753

Sincerely.

Emergency & Risk Management

Anne Sullivan, Manager Phone: 360-249-3911 360-249-3805 Fax:

Michael A. Bernheine

Environmental Health Specialist

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Cc: Clayton Wenger

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