

## **Certificate of Satisfactory Completion**

*Installation of this onsite wastewater treatment system has been determined to comply with the applicable requirements in Oregon Administrative Rules Chapter 340, Divisions 071 and 073 and the conditions of Permit OS405584 as follows:*

### **PROPERTY INFORMATION**

Property Owner: **TFT Custom Homes LLC; Thomas Township 07N, Range 10W, Section 34 CD Fischer**  
Property Location: **Bailey Lane, Gearhart** Tax Lot **512**  
Facility Type: **Single Family Dwelling** Clatsop County  
**3 Bedrooms**

### **SPECIFICATIONS AND REQUIREMENTS**

**System type: Sand Filter: Bottomless - Residential**

Design Flow: **450 gals/day**  
Minimum Septic Tank Size: **1000 gals**  
Minimum Dosing Tank Size: **500 gals**  
Distribution Type: **Pressurized**  
Sand Filter: **360 SqFt**  
Media Type: **N/A**  
Maximum Trench Depth: **4 inches**

### **ADDITIONAL CONDITIONS**

- 1 In accordance with Oregon Revised Statute 454.665, this Certificate of Satisfactory Completion is issued as evidence of satisfactory completion of an onsite wastewater treatment system at the location identified above.
- 2 Issuance of this Certificate does not constitute a warranty or guarantee that this onsite wastewater treatment system will function indefinitely without failure. Conditions imposed as permit requirements continue for the life of the system.
- 3 The area of the initial and the identified replacement area must not be subjected to activity that is likely to adversely affect the soil or the functioning of the system. Such activities may include, but are not limited to, vehicular traffic, livestock, covering the area with asphalt or concrete, filling, cutting, or other soil modification activities.
- 4 This onsite wastewater treatment system must be connected to the facility referenced herein within 5 years of the issuance of this Certificate of Satisfactory Completion (CSC) or rules for authorization notices, alteration permits, or construction-installation permits as outlined in OAR 340-071-0160, 340-071-0205, or 340-071-0210 apply, including payment of an additional fee.
- 5 This system must operate in compliance with OAR Chapter 340, Division 071 and must not create a public health hazard or pollute public waters.

6 Unless otherwise required by the agent, the system installer must backfill (cover) this system within 10 days after the issuance of this Certificate of Satisfactory Completion.

**SYSTEM INSPECTIONS AND COMPLETION DATES**

Pre-Cover Inspection Waived by Connie Schrandt on 8/4/2008

Installer Name: Osburn-Olson, L.L.C.: dba Osburn-Olson, L.L.C.

Certificate Issued by Operation of Law.

To be valid, this document must be signed by an "Agent" as defined in OAR 340-071-0100.

<u>Connie Schrandt</u>	<u>Onsite Wastewater Specialist</u>	<u>8/4/2008</u>
Authorized Agent:	Title	Date CSC Issued
<b>Connie Schrandt</b>		

Department of Environmental Quality  
Northwest Region - Warrenton Office  
65 N Highway 101, Suite G  
Warrenton, OR 97146  
Phone: (503) 861-3280  
Fax: (503) 861-3259

JUL 28 2008

**State of Oregon**  
Department of Environmental Quality (DEQ)

NORTH COAST BRANCH OFFICE  
WARRENTON

**Final Inspection Request and Notice - Onsite ID: 405584**

Pursuant to the requirements within ORS 454.665, OAR 340-71-170 and OAR 340-71-175, the system installer and/or the permittee must notify DEQ (or authorized Agent) when the construction, alteration or repair of a system for which a permit was issued is completed (except for the backfilling or covering of the installation). DEQ (or Agent) has 7 days to perform an inspection of the completed construction after the official notice date, unless DEQ (or Agent) elects to waive the inspection and authorizes the system to be backfilled earlier. Receipt and acceptance of this completed form by DEQ (or Agent) establishes the official notice date of your request for the pre-cover inspection. Faxed copies are acceptable for inspection request purposes only. Originals must be received before a certificate of satisfactory completion is issued. Please complete all of sections 1 through 4 on the form and return it to the office that issued the permit. Forms that are determined to be incomplete may be returned.

**SECTION 1: Owner Information:** TFT Custom Homes LLC; Thomas Fischer **Township 07N, Range 10W, Section 34 CD**  
**Clatsop County TaxLot#: Tax Lot 512**  
**Bailey Lane, Gearhart**

**SECTION 2: Materials List - Identify and list all materials used in the system.**

<u>Material Categories:</u>	<u>Brand Name:</u>	<u>Size:</u>	<u>Specifications</u>	<u>Amount of Material:</u>
Pump(s):	ORENCO PA3005-11	HH Pump	PKG 1/2HP/115V	1
Distribution Pipe:	ORENCO SFM 1820 P-1	MANIFOLD	KIT	1
Effluent Sewer Pipe:	1 1/4" PVC SKED	40	TRANSPORT PIPE & GRD TRACER WIRE	20'
Drain Media Type(s):	28 yds DEQ SAND;	14 yds DEQ PEAGRAVEL	(BOTTOM & TOP)	
Filter Material:	TYPAR PAPER			18' x 20'
Other:	1-WILLAMETTE GREYSTONE 1500GAL 2-CMPT TANKS; 2-ORENCO RISERS & LIDS			

NOTE: Unless previously submitted, you must attach copies of the sieve analysis for the "Filter Media" and "Underdrain Media" used in this system.

**SECTION 3: Construction was performed by (signature required):**

Property Owner/Permittee: TFT Custom Homes LLC; Thomas Fischer  
 Sewage Disposal Service Business: OSBURN/OLSON LLC, 38583  
(Print Full Business Name) (License Number)

All Tank(s) were tested for water-tightness after installation and passed in accordance with OAR 340-73-025(3): Yes  No   
Date tanks(s) tested: 7/12/08 Date System Construction Completed: 7/25/08

I certify that the information provided on both sides of this document is correct and that the construction of this system was in accordance with the permit and the rules regulating the construction of on-site sewage disposal systems (OAR Chapter 340, Divisions 71 and 73).

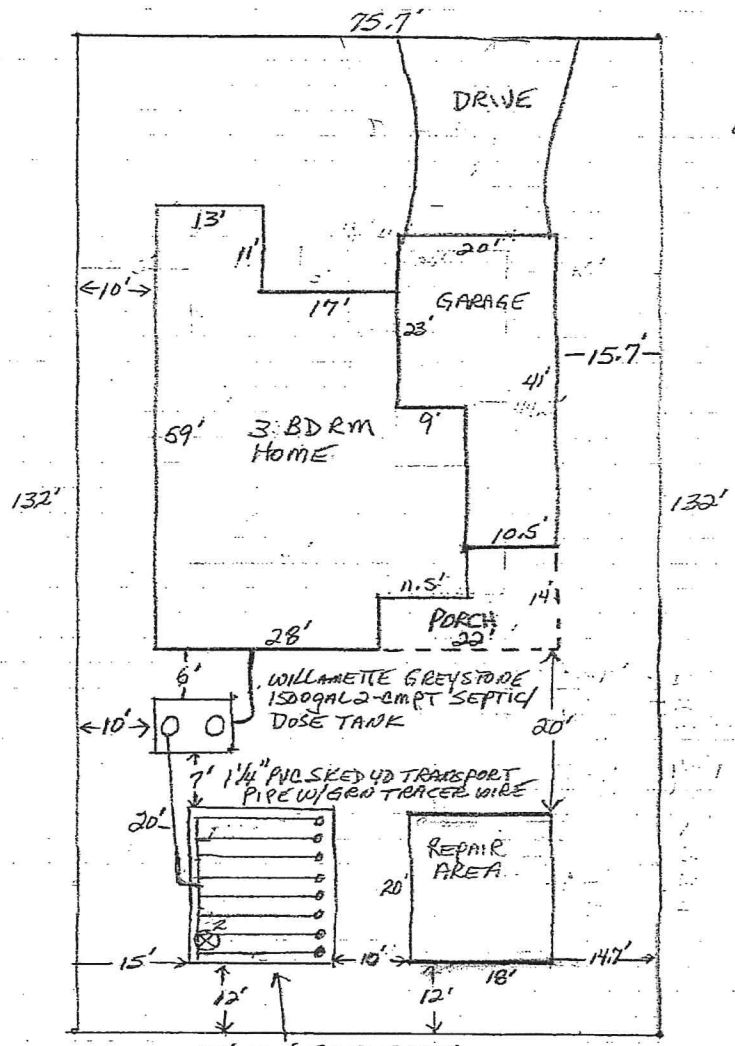
Scott Tomlin CERT. INSTALLER / EMPLOYEE I1091 7/25/08  
(System Installer's Signature-Property Owner or Certified Installer with Certification Number) (Title) (Cert. #) (Date)  
Installers Contact Phone Number: Office/Home \_\_\_\_\_ Cell 503-440-1210

**SECTION 4: AS-BUILT PLAN OF THE CONSTRUCTED SYSTEM.** Indicate the direction of NORTH and show the locations of all wells within 200 feet of the system. Also include ground and pipe elevations, and setback distances from property lines and building structures.

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

BAILEY LANE

JUL 28 2008



TFT CUSTOM HOMES LLC  
70-104-340-518  
BAILEY WAY LOT 12  
OSBURN/OLSON LLC  
#38583

SCALE:  
1" = 20'  
N ↑  
⊗ TEST HOLES

18' x 20' SAND FILTER  
DARK SOIL REMOVED ON  
INITIAL CUT, MAX  
DEPTH 4"

**SECTION 5 - Office Use Only:** Notice Review Date: \_\_\_\_\_ Notice Accepted: Yes ( ) No ( )

If No, Reason for Non Acceptance: \_\_\_\_\_

Installer/Property Owner (Permittee) Notified about: ( ) Non Acceptance ( ) Approval to backfill system

Date and time of notification: \_\_\_\_\_ : \_\_\_\_\_ am/pm Additional Comments: \_\_\_\_\_

**SEPTIC SYSTEM DESIGN**

**George Owen  
89647 Manion Dr.  
Warrenton, OR 97146  
Ph/Fax: 503-717-8681**

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JUN 17 2008

NORTH COAST BRANCH OFFICE  
WARRENTON

**FAX**

**Date: 6/17/08**

**To: DEQ: Connie**

**Fax Number: 503-861-3259**

**From: George Owen**

**Subj: Bailey Lane Lots 12 & 14**

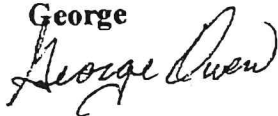
**Total Pages with cover sheet: 3**

**Message:**

**Connie:**

**TFT Custom Homes swapped house plans around on these two lots so the house would fit better on Lot 14. It changed the location of septic tanks on both lots and the initial Sandfilter location on Lot 12.**

**George**





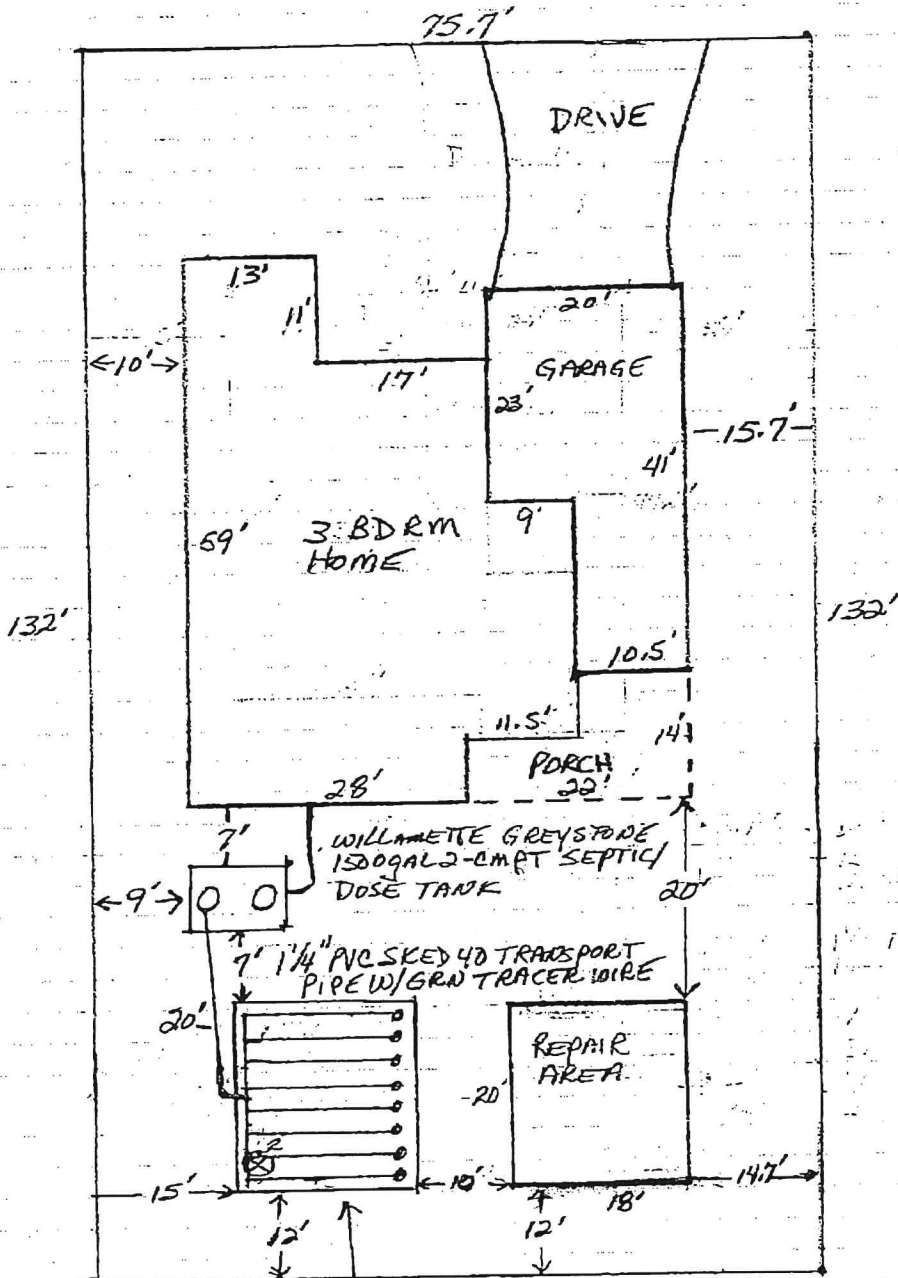
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RECEIVED

JUN 17 2008

BAILEY LANE

NORTH COAST BRANCH OFFICE  
WARRENTON

TFT CUSTOM HOMES LLC  
7N-10W-34CD-512  
BAILEY WAY LOT 12  
OSBURN/OLSON LLC  
#385B3



SCALE:  
1" = 20'  
N ↑  
⊗ TEST HOLES

18' X 20' SAND FILTER  
DARK SOIL REMOVED ON  
INITIAL CUT, MAX  
DEPTH 4"

**Construction-Installation Permit**

*This Construction-Installation Permit OS405584 authorizes the property owner to construct an onsite wastewater system as follows:*

**PROPERTY INFORMATION**

Property Owner: **TFT Custom Homes LLC; Thomas Fischer**      **Clatsop County**  
Property Location **Bailey Lane, Gearhart**      **Township 07N, Range 10W, Section 34 CD**  
Facility Type: **Single Family Dwelling**      **Tax Lot 512**  
**3 Bedrooms**

**SPECIFICATIONS AND REQUIREMENTS**

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Maximum Trench Depth: **4 inches**

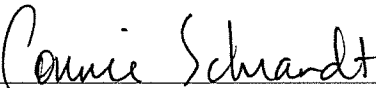
**ADDITIONAL CONDITIONS**

- 1 IMPORTANT:** Current sieve analyses for particle size distribution of the sand filter media and the underdrain media, conducted in accordance with ASTM C-117 and ASTM C-136, must be submitted to the DEQ for review and approval prior to placement during sand filter construction.
- 2** Meet all required setbacks.
- 3** The alarm and pump must be on separate circuits in the control panel.
- 4** The system must be installed by the property owner or a licensed sewage disposal business (installer).
- 5** The system must be installed in accordance with the plan approved by the agent, including any changes made by the agent.
- 6** Vehicular traffic and livestock must be restricted from the system area.
- 7** All roof drains must be directed away from the system.
- 8** An electrical permit and inspection from the Department of Consumer and Business Services, Building Codes Division or the municipality with jurisdiction is required for all pump wiring installation.
- 9** All work is to conform to Oregon Administrative Rules, Chapter 340, Divisions 071 and 073. Make no changes in system location or specifications without written approval from the permit issuing agent.

**INSPECTION REQUIREMENTS**

- <sup>1</sup> A final inspection request and notice form including a detailed and accurate as-built plan of the constructed system and a list of all materials used in the construction of the system must be completed and submitted prior to requesting a final inspection.
- <sup>2</sup> A pre-cover inspection of the installed absorption facility (prior to backfill) is required.
- <sup>3</sup> A site inspection of the sand filter initial cut is required prior to installing sand filter contents.
- <sup>4</sup> A squirt test inspection of the pressurized piping system is required.

For pre-cover inspection information, contact your agent below:

	<b>Onsite Wastewater Specialist</b>	<b>2/22/2008</b>	<b>2/22/2009</b>
Authorized Agent:	Title	Date Issued	Expiration Date

**Connie Schrandt**

Department of Environmental Quality  
Northwest Region, Warrenton Office  
65 N Highway 101, Suite G  
Warrenton, OR 97146  
Phone: (503) 861-3280  
Fax: (503) 861-3259

See the Attachment 1 for additional information about your permit.



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### FIELD WORKSHEET FOR FINE AGGREGATE

NORTH COAST BRANCH OFFICE

PROJECT NAME (SECTION)				W. ARRENTON	
CONTRACTOR OR SUPPLIER			PROJECT MANAGER		BID ITEM NUMBER
SCAPPOOSE SAND & GRAVEL			BOB		
SOURCE NAME			SOURCE NUMBER		MATERIAL SIZE
SCAPPOOSE SAND & GRAVEL					3/8 Pea Gravel
TEST NO.	DATE	TIME	SAMPLING AT		TO BE USED IN
1	3/17/2008	PM	PRODUCTION		Underdrain Media

SIEVE SIZE	SPECS. LIMITS	SIEVE ANALYSIS							FM	
		MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	ACCUMULATED	RETAINED
1/2"	100	0.0	0.0			0.0	0.0	100		
3/8"	85-100	0.0	0.0			0.0	0.0	100		
1/4"		651.4	614.8			1266.2	53.7	46		
#4	10-30	401.6	419.3			820.9	34.8	12		
#8	0-10	134.7	126.3			261.0	11.1	0		
#18	0-5	0.4	0.5			0.9	0.0	0		
#30		0.1	0.3			0.4	0.0	0		
#40		0.1	0.1			0.2	0.0	0		
#200	0-1.0	0.7	0.8			1.5	0.1	0.3		
PAN		0.8	0.3			1.1	0.0			
B = INITIAL DRY MASS:		2357.4		D = MASS AFTER SIEVING:		2352.2				

SIEVE SIZE	SPECS. LIMITS	FRACTURED PIECES				ELONGATED PIECES	
		NON FRAC MASS	QUESTIONABLE MASS	FRAC MASS	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS

SET 176			
1	SR		
2	SR		
3	SR		
SR = Sand Reading		AVG.	
CL = Clay Reading			
PAN TARE		200	
WET SAMPLE & PAN			
DRY SAMPLE & PAN		2557.4	
WASH DRY & PAN		2552.2	

<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> WET	RESULT	SPEC	A = WET SAMPLE WT. - PAN
Combine Fracture	TM 1			B = DRY SAMPLE WT. - PAN 2357.4
Wood Particles	TM225			C = DRY WT AFTER WASH - PAN 2352.2
Cleanness Value	TM 227			REMARKS :
Elongated Pieces	TM 229			TFT CUSTOM HOMES
Fineness Modulus	T 27/T11			DN-100-340 514, 513, 512, 505
MOISTURE % = ((A-B) / B) X 100				OSBURN/OLSON LLC 38583
SIEVE LOSS % = ((C-D) / C) X 100		0.0%	0.3%	BAILEY LAKE
2.00mm / 6.3mm				

<input checked="" type="checkbox"/> QUALITY CONTROL	<input checked="" type="checkbox"/> VERIFICATION	INDEPENDENT ASSURANCE	SIGNATURE	DATE
CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER		COMPANY NAME		
LYNN RINGHEIM 1361		Glacier Northwest, Inc.	Lynn Ringheim	3/18/08

**APPROVED**  
*Connie M. Schrandt*  
 Connie M. Schrandt, W.W.S.  
 Lic. No. EH-W-760756  
 7/11/08

FROM : GLACIER NW

FAX NO. : 5035436999

May. 13 2008 12:05PM P1

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**CLACKAMAS COUNTY FILTER SAND**  
**5/6/2008**

NORTH COAST BRANCH OFFICE  
WARRENTON

SIEVE	IND. WT. RETAINED	IND. % RETAINED	ACC. % RETAINED	ACC. % PASSING
#4	20.5	1.81%	1.81%	98.19%
#8	79.7	7.03%	8.84%	91.16%
#16	200.9	17.71%	26.55%	73.45%
#30	232.5	20.50%	47.05%	52.95%
#50	446.0	39.33%	86.38%	13.62%
#100	144.9	12.78%	99.15%	0.85%
#200	3.4	0.30%	99.45%	0.55%
PAN	0.7	0.06%	99.52%	0.48%
	1134.1	F.M.	2.70	

DRY WEIGHT BEFORE WASH - 1134.1

DRY WEIGHT AFTER WASH - 1128.6

ASTM TEST MEHTODS #C-117 AND #C-136 IN USE FOR ANALYSIS.

TFT CUSTOM HOMES

7N-10W-34CD-514, 513, 512, 503

OSBURN/OLSON LLC 38583

BAILEY LANE

COMPANY NAME: GLACIER NORTHWEST, INC.  
COLUMBIA RIVER SAND

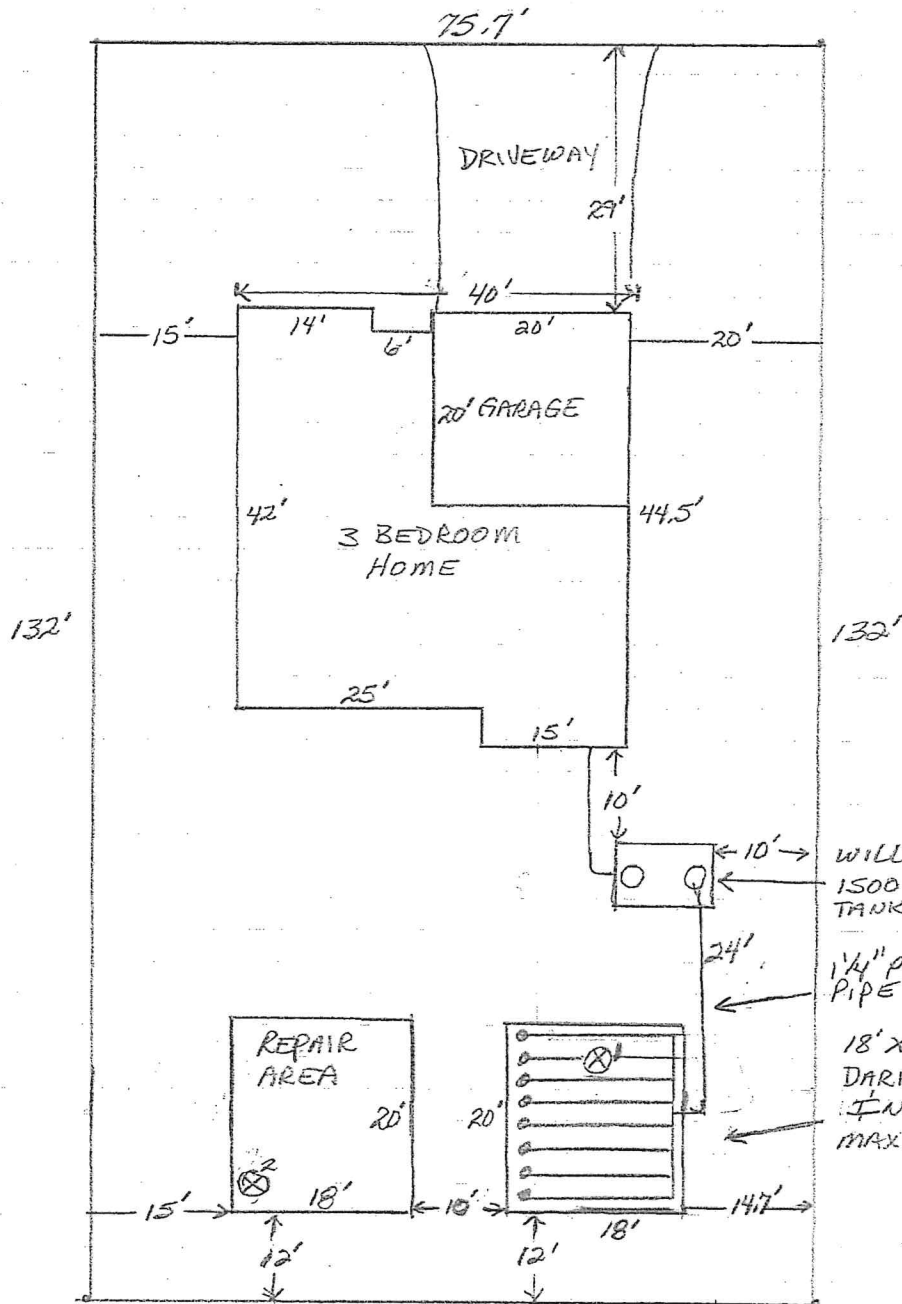
CERTIFIED TECH: LYNN RINGHEIM ODOT# 41361

**APPROVED**  
*Connie M. Schrandt*  
Connie M. Schrandt, W.W.S.  
Lic. No. EH-W-760756  
7/11/08

FEB 19 2008

NORTH COAST BRANCH OFFICE  
WARRENTON

BAILEY LANE



TFT CUSTOM HOMES LLC  
7N-10W-34CD-512  
BAILEY WAY LOT 12  
OSBURN/OLSON LLC  
#38583

SCALE:  
1" = 20'  
N ↑  
⊗ TEST HOLES

2-21-08  
checked  
stakeout  
CMS

**APPROVED**  
*Connie M. Schrandt*  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
2-22-08

# 20'x18' Bottomless Sand Filter

is Configured for loading rates up to 1.25 GPD/FT.<sup>2</sup> Follow appropriate intermittent sand filter design criteria.



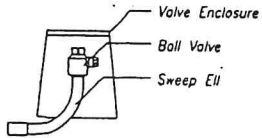
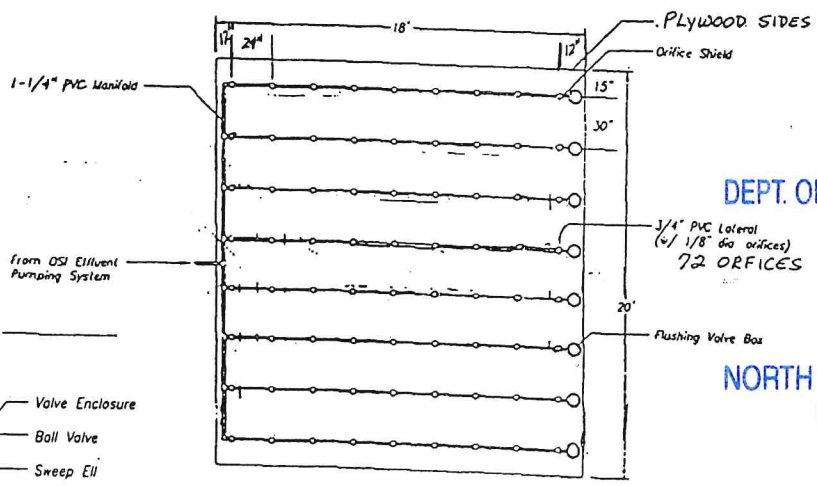
Orencia Systems  
 811 ARMY AVENUE  
 SUFFERLN, OREGON  
 97179-1012

TELEPHONE:  
 (503) 459-1119  
 FACSIMILE  
 (503) 459-2884

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NORTH COAST BRANCH OFFICE  
 WARRENTON

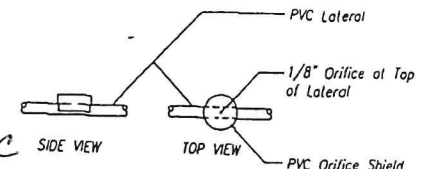


FLUSHING VALVE DETAIL  
 SCALE: 1" = 1'-0"

Patent # 5,360,556  
 © 1998, Orencia Systems, Inc

TOP VIEW - 20'X18' BOTTOMLESS SAND FILTER  
 SCALE: 1" = 5'-0"

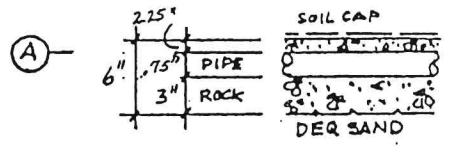
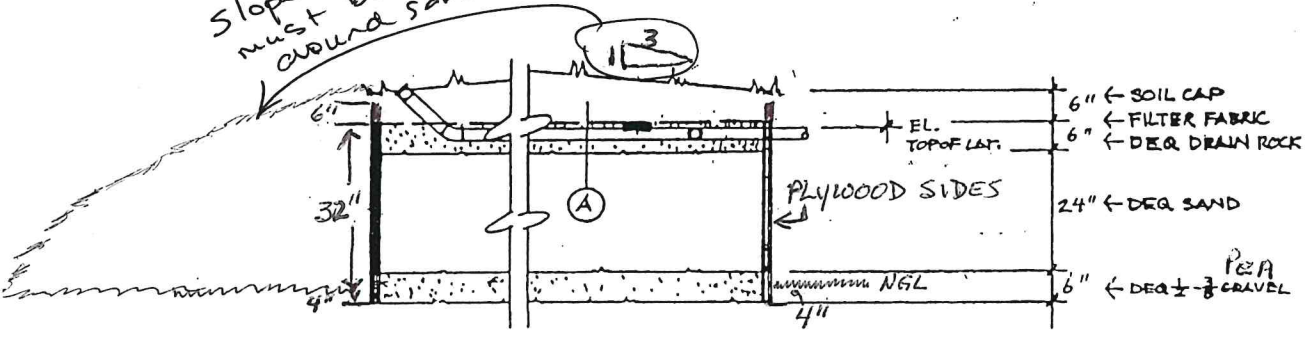
Note: See additional details on  
 NDW-SF-5-3



STANDARD ORIFICE SHIELD DETAIL

TFT CUSTOM HOMES LLC  
 7N-10W-34CD-512  
 BAILEY LAKE LOT 12  
 OSBURN/OLSON LLC  
 #38583

*Sloped berm  
 must be 3:1  
 around sand filter*



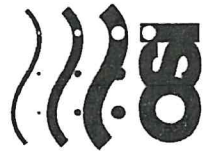
EL. NATURAL GRADE — 0.00'  
 EL. TOP OF MANIFOLD — +2.60'  
 EL. PUMP BASE — -5.00'  
 STATIC HEAD — = 7.60'

**BOTTOMLESS SAND FILTER  
 & MANIFOLD SECTION**

**APPROVED**  
*Connie M. Schrandt*  
 Connie M. Schrandt, W.W.S.  
 Lic. No. 0207760756  
 2-22-08

# Pump Selection for a Pressurized System

TFT Custom Homes 7N-10W-34CD-512  
Osburn/Olson LLC #38583 Bailey Lane Lot 12



**Orengo Systems**  
Incorporated

814 AIRWAY AVENUE  
SUTHERLIN, OREGON  
97479

TOLL FREE:  
(800) 348-9843

TELEPHONE:  
(541) 459-4449

FACSIMILE:  
(541) 459-2884

www.orengo.com

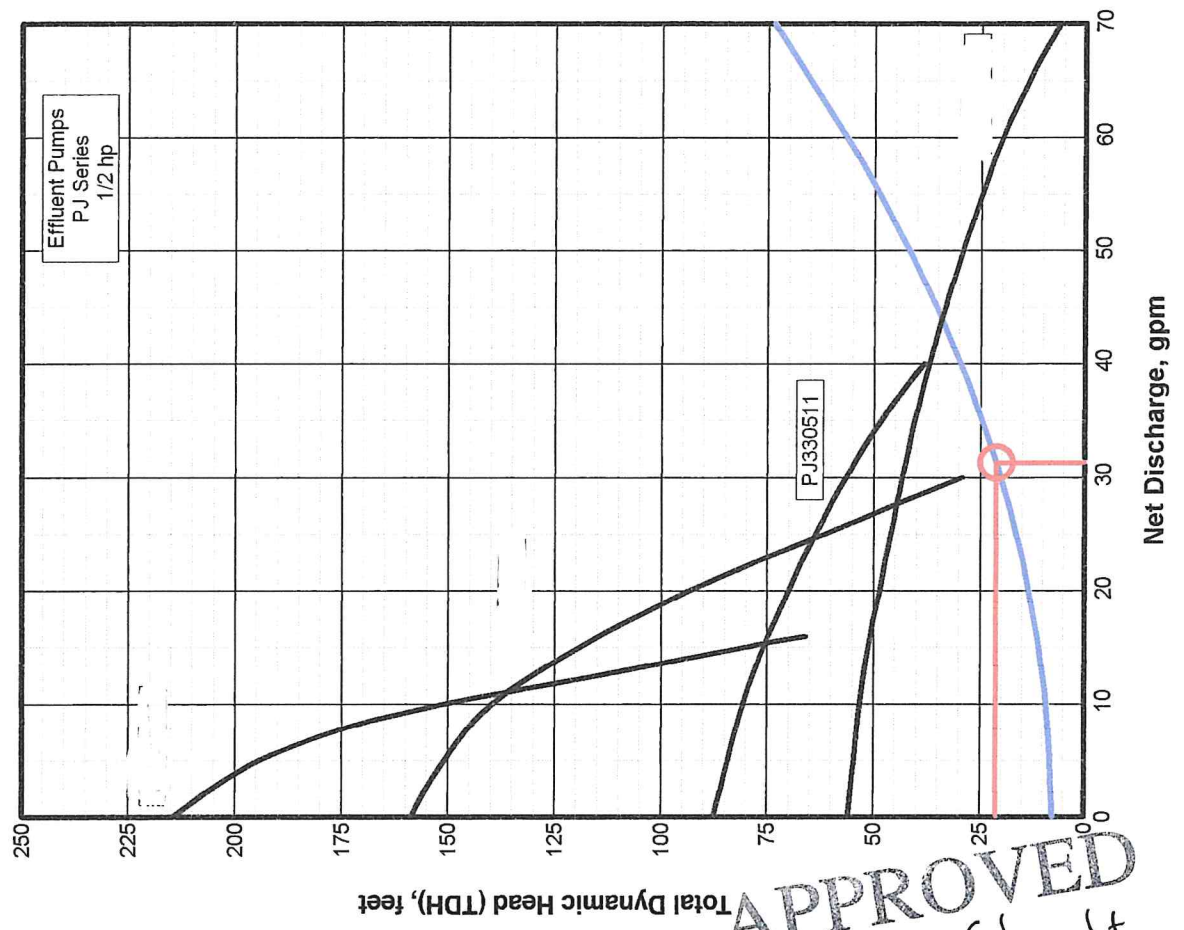
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WARRENTON

Input Parameters	
Orifice Size	1/8 inches
Residual Head at Last Orifice	5.00 feet
Orifice Spacing	2.0 feet
Number of Laterals per Cell	8
Lateral Length	16.0 feet
Lateral Line Size	0.75 inches
Lateral Pipe Class/Schedule	40
Distributing Valve Model	None
Manifold Length	17.5 feet
Manifold Line Size	1.25 inches
Manifold Pipe Class/Schedule	40
Lift to Manifold	7.6 feet
Transport Length	24.0 feet
Transport Line Size	1.25 inches
Transport Pipe Class/Schedule	40
Discharge Assembly Size	1.25 inches
Flow Meter	None
'Add-on' Friction Losses	0.0 feet

Calculations	
Minimum Flow Rate per Orifice	0.43 gpm
Number of Orifices per Zone	72
Total Actual Flow Rate	31.3 gpm
Number of Lines per Zone	8
% Flow Differential 1st and Last Orifice	1.7 %
Lift to Manifold	7.6 feet
Residual Head at Last Orifice	5.00 feet
Head Loss in Laterals	0.2 feet
Head Loss Through Distributing Valve	0.0 feet
Head Loss in Manifold	0.6 feet
Head Loss in Transport Pipe	2.9 feet
Head Loss Through Discharge	4.9 feet
Head Loss Through Flow Meter	0.0 feet
'Add-on' Friction Losses	0.0 feet
<b>Total Flow Rate</b>	<b>31.3 gpm</b>
<b>TDH</b>	<b>21.2 feet</b>



**APPROVED**  
*Connie M Schrandt*  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
2-22-08





State of Oregon  
Department of  
Environmental  
Quality

# Application for Onsite Sewage Treatment System

Department of Environmental Quality  
65 N Highway 101, Suite G  
Warrenton, OR 97146

Phone/TTY: (503) 861-3280  
Fax: (503) 861-3259

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED  
FEB 19 2008  
NORTH COAST BRANCH OFFICE  
WARRENTON

For DEQ Use Only:  
Date Received 2/19/08  
Fee Paid 990<sup>00</sup>  
Receipt Number 133079  
Application Number 406390  
Date of 1st Response 2-21-08  
Date of 2nd Response \_\_\_\_\_  
Date of Final Response \_\_\_\_\_  
Date of Completion 2-22-08  
Scanned \_\_\_\_\_ Data Entry \_\_\_\_\_

## A. Property Owner Information

TFT Custom Homes LLC      53990 West Lane Rd, Scappoose, OR 97056      503-543-~~7299~~ 7979  
Name      Mailing Address (Street or PO Box, City, State, Zip Code)      Phone Number

## B. Legal Property Description

<u>7N</u> Township	<u>10W</u> Range	<u>34CD</u> Section	<u>512</u> Tax Lot	<u>12</u> Tax Account Number	<u>23 acres</u> Acreage or Lot Size
<u>Clatsop</u> County		<u>Bailey Lane</u> Subdivision Name		<u>12</u> Lot	<u>Block</u>

Property Address: Bailey Lane      Gearhart      OR      97138  
Address      City      State      Zip Code

Directions to Property: From Warrenton go South on Hwy 101N to Shamrock Rd. Go about 50-75 ft past and turn left onto Bailey Lane. Lot is the third lot on right off Bailey Lane

## C. Existing Facility / Proposed Facility / Water Information

<b>Existing Facility:</b>	<b>Proposed Facility:</b>	<b>Water Supply:</b>
<input type="checkbox"/> Single Family Residence	<input checked="" type="checkbox"/> Single Family Residence	<input checked="" type="checkbox"/> Public <u>Gearhart</u>
<u>        </u> Number of Bedrooms	<u>3</u> Number of Bedrooms	<input type="checkbox"/> Private _____
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	Well, Spring, Shared

## D. Type of Application

<input type="checkbox"/> Site Evaluation	<input type="checkbox"/> Renewal Permit	<input type="checkbox"/> Authorization Notice for:
<input checked="" type="checkbox"/> Construction Permit	<input type="checkbox"/> Existing System Evaluation	<input type="checkbox"/> Connecting to an Existing System Not in Use
<input type="checkbox"/> Repair Permit	<input type="checkbox"/> Permit Transfer	<input type="checkbox"/> Replacing a Mobile Home or House with Another Mobile Home or House
<input type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Permit Reinstatement	<input type="checkbox"/> The Addition of One or More Bedrooms
<input type="checkbox"/> Alteration Permit		<input type="checkbox"/> Personal Hardship
<input type="checkbox"/> Major <input type="checkbox"/> Minor		<input type="checkbox"/> Temporary Housing
		<input type="checkbox"/> Other - Please Specify _____

If the required fee and attachments are not included with this application, it will be returned to you as incomplete. Post a flag or sign with your name and address at the entrance to the property. Flag and number the test holes.

By my signature, I certify that the information I have furnished is correct, and hereby grant the Department of Environmental Quality and it's authorized agents permission to enter onto the above described property for the sole purpose of this application.

George M. Owen      2-19-08  
Signature      Date  
George Owen      503-717-8681  
Applicant's Name - Please Print Legibly      Applicant's Phone Number      Applicant's E-mail Address

89647 Manion Dr Warrenton, OR 97146  
Applicant's Mailing Address

Applicant is the  Owner  Authorized Representative  Licensed Septic Installer  
 Authorization Attached      Osburn/Olson LLC #38583  
Installer's Name

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

FEB 19 2008

NORTH COAST BRANCH OFFICE  
WARRENTON



Department of Environmental Quality  
North Coast Office  
65 N. Highway 101, Suite G  
Warrenton, OR 97146  
Telephone: (503) 861-3280 Fax: (503) 861-3259

**NOTICE AUTHORIZING REPRESENTATIVE**

I, TFT Custom Homes, LLC., have authorized  
(Property Owner/Print Name)  
GEORGE OWEN to act as my agent in performing  
(Authorized Representative/ Print Name)

the activities necessary to obtain site evaluations, permits, and other onsite wastewater treatment program services provided by the Department of Environmental Quality on the property described below in accordance with OAR chapter 340, division 071. I agree that any costs not satisfied by the Authorized Representative are my responsibility.

**PROPERTY IDENTIFICATION:**

Property Situs or Road Address

And described in the records of CLATSOP County as:

Township 7N Range 10W Section 34CD Map ID \_\_\_\_\_ Tax Lot #(s) 505 & 512

Township 7N Range 10W Section 34CD Map ID \_\_\_\_\_ Tax Lot #(s) 513 & 514

**PROPERTY OWNER:**

Printed Name: TFT Custom Homes, LLC Thomas Fischer  
Signature: Thomas C.P. Fischer Date: 2/8/08  
Address: 53990 West Lane Rd Phone: 503-543-7979  
City, State, Zip: Scappoose OR 97056 Fax: 503-543-7299  
E-mail Address: tfitch@opusnd.com

**AUTHORIZED REPRESENTATIVE:**

Printed Name: GEORGE OWEN  
Signature: George M. Owen Date: 2/7/08  
Address: 89649 MARION DR Phone: 503-717-8681  
City, State, Zip: WARRENTON, OR 97146 Fax: 503-717-8681  
E-mail Address: \_\_\_\_\_



FEB 19 2008

**SECTION 1 - TO BE FILLED OUT BY APPLICANT** (may be filled in electronically using Tab key to move to each field)

NORTH COAST BRANCH OFFICE  
WARRENTON

1. Applicant Name/Property Owner: TFT Custom Homes LLC  
Mailing Address: 53990 West Lane Rd. Telephone: 503-543-7299  
City: Scappoose State: OR Zip: 97056

2. Property Information:  
County: Clatsop Tax Lot Number: 512  
Township: 7N Range: 10W Section: 34CD  
Property Address: Bailey Lane Gearhart, OR 97138  
Block: \_\_\_\_\_ Lot: 12 Subdivision Name (if applicable): Bailey Lane

3. This proposed facility is for:  
 An individual, single-family dwelling.  
 Other. Describe the type of development, business, or facility and the provided services or products:  
\_\_\_\_\_  
\_\_\_\_\_

4. Permit or approval being requested:  
 On-site construction-installation permit for:  New construction  Repairs  Alterations  
 Non-water-carried facility requests (for example, pit privy/vault toilet for camp grounds).  
 On-site Authorization Notices for:  Replacement of dwelling  Bedroom addition  
 Other changes in land use involving potential sewer flow increases

**SECTION 2 - TO BE FILLED OUT BY CITY OR COUNTY PLANNING OFFICIAL**

5. The proposed facility is located:  inside city limits  inside UGB  outside UGB  
If inside the UGB, the proposed facility is subject to:  
 City jurisdiction  County jurisdiction  Shared city/county jurisdiction

6. Property Zoning: R-1 Zoning Minimum Parcel Size: 10000

7. Is a public notice and hearing required?  Yes  No Hearing Date: \_\_\_\_\_

8. Does the proposed facility comply with all applicable local land use requirements:  Yes  No  
Comments: \_\_\_\_\_

9. Planning Official Signature: [Signature]  
Print Name: D. J. McHALLY Title: CA  
Telephone No.: 738-5501 Date: 2-15-08

\* Planning Official Signature: \_\_\_\_\_  
Print Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_ Date: \_\_\_\_\_

\* Both city and county planning officials may need to sign if use is within a UGB.

Receipt Number: 133079

FEB 19 2008

Oregon Department of Environmental Quality  
Warrenton Office  
65 N Highway 101, Suite G  
Warrenton, OR 97146



NORTH COAST BRANCH OFFICE  
WARRENTON  
Date Received 2/19/2008

Received From **TFT Custom Homes, LLC**  
(Check Name): **53990 West Lane Road**  
**Scappoose, OR 97056**

For **T07N R10W S34 CD**  
Property **TaxLot 512**  
At: **Clatsop County**  
**Bailey Lane**  
**Gearhart, OR 97138**  
**Lot 12, Bailey Lane**

**Current Payment**

Amount Paid	Payment Type	Check # Money Order # Purchase Order	Bank Number	Amount Applied
990.00	Check	7324	96-7634	990.00

Total Amount Applied \$990.00

Onsite Fees	
Base Fee:	<b>950.00</b>
Surcharge Fee:	<b>40.00</b>
Plan Review Flow Fee:	
Pump Evaluation Fee:	
Flow Fee:	
Reinspection Fee:	
<b>Total Fee</b>	<b>\$990.00</b>
Payments	
Previous Payments:	<b>0.00</b>
Current Payment:	<b>990.00</b>
Over Payment:	<b>0.00</b>
<b>Total Payments:</b>	<b>\$990.00</b>

Application Description	
Application ID:	<b>406390</b>
Application Type:	<b>Construction-Installation Permit</b>
	<b>Single Family Dwelling</b>
System Type:	<b>Sand Filter: Bottomless - Residential</b>
Pump Evaluation:	<b>No</b>
Flow:	<b>450</b> gallons/day

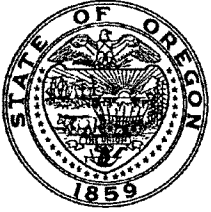
Receipt Amount: \$990.00

Received By:

Date of Entry:

Vicky Schiele

2/19/2008



# Oregon

Theodore R. Kulongoski, Governor

**Department of Environmental Quality**

Northwest Region North Coast Branch Office

65 N Highway 101, Suite G

Warrenton, OR 97146

(503) 861-3280

FAX (503) 861-3259

February 1, 2008

Ryan Osburn & Cory Olson  
Osburn Olson LLC  
1369 Stillwater Ct.  
Seaside, OR 97138

**IMPORTANT DOCUMENT – PLEASE READ CAREFULLY**

**-This is not a construction permit-**

**RE: Site Evaluation Results – Site Approvals with Conditions & Site Denials  
Bailey Lane Subdivision – Proposed Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14  
T7N, R10W, S34C; Tax Lot Nos. 1200, 1202 & 1400, Clatsop County  
Onsite Nos: 405505, 405506, 405507, 405508, 405509, 405510, 405511, 405512,  
405513, 405514, 405515 and 405516**

Dear Ryan & Cory:

The above-described properties were evaluated for suitability of onsite sewage disposal on the following date(s): January 17 and 23, 2008. Based on the evaluation, the following onsite wastewater treatment systems are approved for **Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14** as follows:

**Initial system:** Bottomless Sand Filter  
**Replacement system:** Bottomless Sand Filter

**NOTE: Site development plans accompanied by physical stake-outs on each of the lots approved for onsite sewage disposal will be required for review and approval prior to issuance of any construction/installation permits.**

Details of the site evaluations are included in the Site Evaluation Report that is enclosed.

### **Next Step – Applying for a Construction/Installation Permit**

When you are ready to proceed with system construction, contact this office to get a permit application package. A permit must be issued by DEQ for each approved system before you can start construction.



**Request for Site Evaluation Report Review or Request for Variance**

If you believe that an error was made in the evaluation of your property, you may apply for a Site Evaluation Report Review within 60 days of the site evaluation report issue date at a cost of \$440. If you would like to apply for a Variance from one or more of the Onsite Wastewater Treatment System rules, you may apply for a Variance at a cost of \$1340. If you are interested in either of these actions, please contact the undersigned for more details before you proceed.

Best wishes on a successful project. If you have any other questions about this report, please feel free to call me at (503) 861-3280.

Sincerely,



Connie M. Schrandt  
Natural Resource Specialist

Enc: Site Evaluation Report

Cc: George Owen, 89647 Manion Dr., Warrenton, OR 97146

**Site Evaluation Report  
For Onsite Wastewater Treatment System Suitability**

Site Location: T7N, R10W, S34C; Tax Lot Nos. 1200, 1202 & 1400, Clatsop County  
Bailey Lane Subdivision - Proposed Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14

Applicant: George Owen

Application Nos.: 406069, 406070, 406071, 406072, 406073, 406074, 406075, 406076, 406077, 406078,  
406079 and 406080

Onsite Nos.: 405505, 405506, 405507, 405508, 405509, 405510, 405511, 405512, 405513, 405514, 405515 and  
405516

Date(s) of Site Evaluation: January 17 and 23, 2008

DEQ Onsite Specialist: Connie M. Schrandt

Date of Report: February 1, 2008

**General Description of Site Evaluations**

Sewage contains disease-causing organisms and other pollutants that can cause adverse impacts to human health and the environment. An onsite wastewater treatment system must treat and dispose of sewage in a way that will not cause a public health hazard, contaminate drinking water supplies, or pollute public waters.

Proper treatment in an onsite system begins with primary treatment in the septic tank. The septic tank separates the solid particles in sewage from the liquid. The liquid that comes out of the septic tank is called effluent. The effluent may then be dispersed in the soil for further treatment or discharged into a secondary treatment device such as a sand filter or aerobic treatment unit prior to dispersal in the soil. For proper treatment, the effluent must slowly infiltrate into the underlying soil. Dissolved wastes and bacteria in the effluent are trapped or adsorbed to soil particles or decomposed by microorganisms. This process removes disease-causing organisms, organic matter, and most nutrients. Effluent that comes to the ground surface (through poor soils or other problems with the system) can be a possible health hazard because it may still contain some disease-causing organisms. Soil that drains too quickly may not give the effluent enough treatment and may result in groundwater contamination.

The purpose of the evaluation was to locate suitable soils in an area that is large enough for both the initial drainfield area and the replacement drainfield area. The criteria used for this site evaluation can be found in Oregon Administrative Rules (OAR) 340-071.

Soil test pits and other site features were evaluated during the site visit on January 17 and 23, 2008. For each lot, the following features were evaluated:

- Soil types - how well they drain and other evidence of good soil structure for treatment
- Depth to groundwater
- Wells located on the site or adjacent sites.
- Slopes, escarpments, ground surface variations, topography
- Creeks or springs on the site or adjacent properties
- Whether the soils have been disturbed
- Setbacks from property lines, buildings, water lines, and other utilities
- Other site features that could affect the placement of the onsite system.

## Approved Systems

Based on the evaluation of the site and soil conditions, the following onsite wastewater treatment systems are approved for **Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14**:

**Initial System:** System Type: **Bottomless Sand Filter**  
Minimum Septic Tank Size: 1000 gallons  
Minimum Dosing Tank Size: 500 gallons  
Distribution Method: Low Pressure  
Minimum Base Area of Filter: 360 square feet  
Maximum Filter Depth: Varies (see Field Worksheets)

**Replacement System:** Same as for Initial System.

The initial and replacement systems on each lot must be separated by 10 feet of undisturbed ground or by a reinforced concrete wall that is installed as part of the initial system. Also, above ground portions of the sand filter must be supported by a berm that extends out from the edges of the sand filter at a 2:1 slope.

**NOTE: Site development plans accompanied by physical stake-outs on each of the lots approved for onsite sewage disposal will be required for review and approval prior to issuance of any construction/installation permits.** The plans and stakeouts must demonstrate that there is adequate area to accommodate both initial and replacement disposal areas and that all required setbacks (to property lines, underground utilities, building foundations, surface waters, potential man-made cuts resulting from house placement and construction, etc.) can be maintained.

Attached are the Field Worksheets and Plot Plans that show the test pit locations and other details of the site evaluation on each lot.

## Site Limitations

Many sites have limitations that will affect either the location of the onsite sewage system or the type of system that can be allowed. The following describes the limitations found in this evaluation.

### **Setback from property lines and building foundations**

Rule requirement: Table 1, OAR 340-071. 10' setback required.

Description: The required property line setback allows construction of the system without trespass or damage to neighboring properties. The foundation line setback prevents too much liquid from causing the soil under the building to settle and potentially damage the building.

Site Conditions Observed: The size and configuration of **Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14** relative to residential development plans and maintaining required setbacks are such that only bottomless sand filter systems will be considered.

### **Clatsop Plains Special Considerations**

Description: For properties within the area generally known as the Clatsop Plains and *of less than one acre*, the approved onsite system shall be either a sand filter system or a pressurized distribution system with a design sewage flow not to exceed 450 gallons per day.

Rule requirement: OAR 340-071-0400(5)

Site conditions observed: Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14 are each less than one acre in size.

**Permanent groundwater levels too close to ground surface**

Description: “Permanent groundwater” refers to a water table or saturated zone that exists year-round. Treatment of sewage occurs in the soils around the drainfield area. If groundwater comes in contact with the sewage before it has been adequately treated in the soils, there are two concerns: 1) very little treatment occurs in saturated soils – the presence of air is required for good treatment; and 2) sewage may be “forced” to the surface where it poses a potential public health hazard.

Rule requirement: OAR 340-071-0290(2)(b)(A). For approval of low-pressure distribution systems, a minimum separation of 48 inches is required between the bottom of the disposal trenches (or seepage bed) and the upper level to which permanent groundwater is expected to rise. A bottomless sand filter system can be approved on sites with a minimum separation of 24 inches between the bottom of the filter and the upper level of permanent groundwater.

Soil conditions observed: The required 48-inch separation described in the rule cannot be met on Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14 due to shallow groundwater levels, as determined by measuring the depth to conditions associated with saturated soils and groundwater.

**Additional Conditions of Site Approval for Lots 1, 2, 3, 4, and 6**

1. Sites on Lots 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14 are approved for the types of onsite wastewater treatment systems described above. Peak sewage flow into each system is limited to a maximum of 450 gallons per day, with an average sewage flow of not more than approximately half of the peak sewage flow. This is normally sufficient to serve a single-family dwelling with a maximum of four bedrooms. Premature failure of the treatment system may occur if either of these flow limits are exceeded.
2. Any alteration of natural soil conditions (i.e. cutting or filling) in the acceptable area may void these approvals. Disposal areas shall maintain a 25-foot setback to any cut banks that may be created from an excavated cut for the house placement.
3. Both the initial and replacement disposal areas are to be protected from traffic, cover, development or other potential disturbance of natural soil conditions.
4. The areas must not be subjected to excessive saturation due to, but not limited to, artificial drainage of ground surfaces, roads, driveways and building down spouts.
5. These approvals are given on the basis that the lots will not be further partitioned or subdivided.

These site approvals are valid until each system is constructed in accordance with a DEQ construction permit. Technical rule changes shall not invalidate this approval, but may require use of a different kind of system. If there is a technical rule change affecting this site approval, the Department will attempt to notify in writing the current property owner as identified by the county assessor’s records. The site approval runs with the land and will automatically benefit subsequent owners.

Attachment: Field Worksheets and Plot Plans

E EVALUATION FIELD WORKSHEET

Township: TN Range: 10W Section: 34C Tax Reference: 12. 1202 Parcel Size: 10,000 sq. ft.  
 Owner/Applicant: Osburn - Olson LLC Evaluator: CMS  
 Inspection Date(s): 1-23-08 Application Number: 406078  
Bailey Lane Subdivision - Lot 12

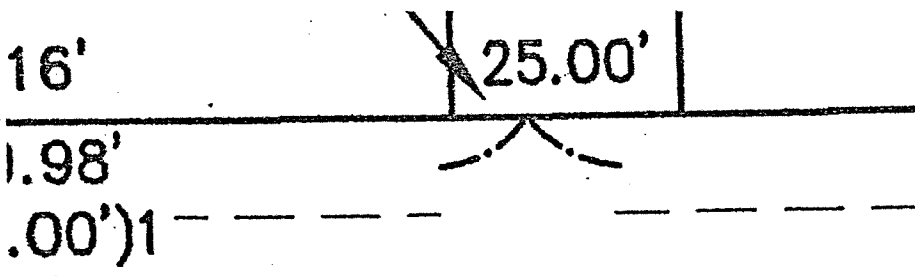
	DEPTH	TEXTURE	SOIL MATRIX COLOR AND CONDITIONS ASSOCIATED WITH SATURATION, ROOTS, STRUCTURE, EFFECTIVE SOIL DEPTH, ETC...
Pit 1	0-8	topsoil/fill mix	
	8-26	s (fill)	2.5Y 5-4/3
	26-29	lfs	10YR 3-3/1; loose, sq → f1SDK, buried topsoil ranges fill" to 4" thick
	29-32	s	10YR 4/3, many vf roots to ~ 31" bgs
	32-44	↓	2.5Y 5-1/2-1; water standing @ 44"
Pit 2	0-28	s (fill)	> similar to Pit 1, except 1" to 2" dk topsoil @
	28-36	s	28" bgs + trace water @ pit bottom
	36-52	↓	
Pit 3			
Pit 4			

Landscape Notes: Stabilized dune - wetlands/riparian to East  
 Slope: ~1-2% Aspect: N Groundwater Type: Permanent  
 Other Site Notes: Test pits located in sand fill placed after removing dark topsoil

SYSTEM SPECIFICATIONS

Design Flow: 450 gpd  
 Initial System: Bottomless Sand Filter ATT Treatment Standard: 2  
 Disposal Facility: 360 linear feet/square feet Maximum Depth: 4 inches Minimum Depth: — inches  
 Replacement System: Same As Initial System ATT Treatment Standard: —  
 Disposal Facility: — linear feet/square feet Maximum Depth: — inches Minimum Depth: — inches  
 Special Conditions: Physical staging of initial & replacement sand filters required with site development plan for review + approval prior to permit issuance. Dark topsoil must be completely removed from initial cut of sand filters when installed





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NOV-19 2007

NORTH COAST LAND RECLAMATION  
 WASHINGTON

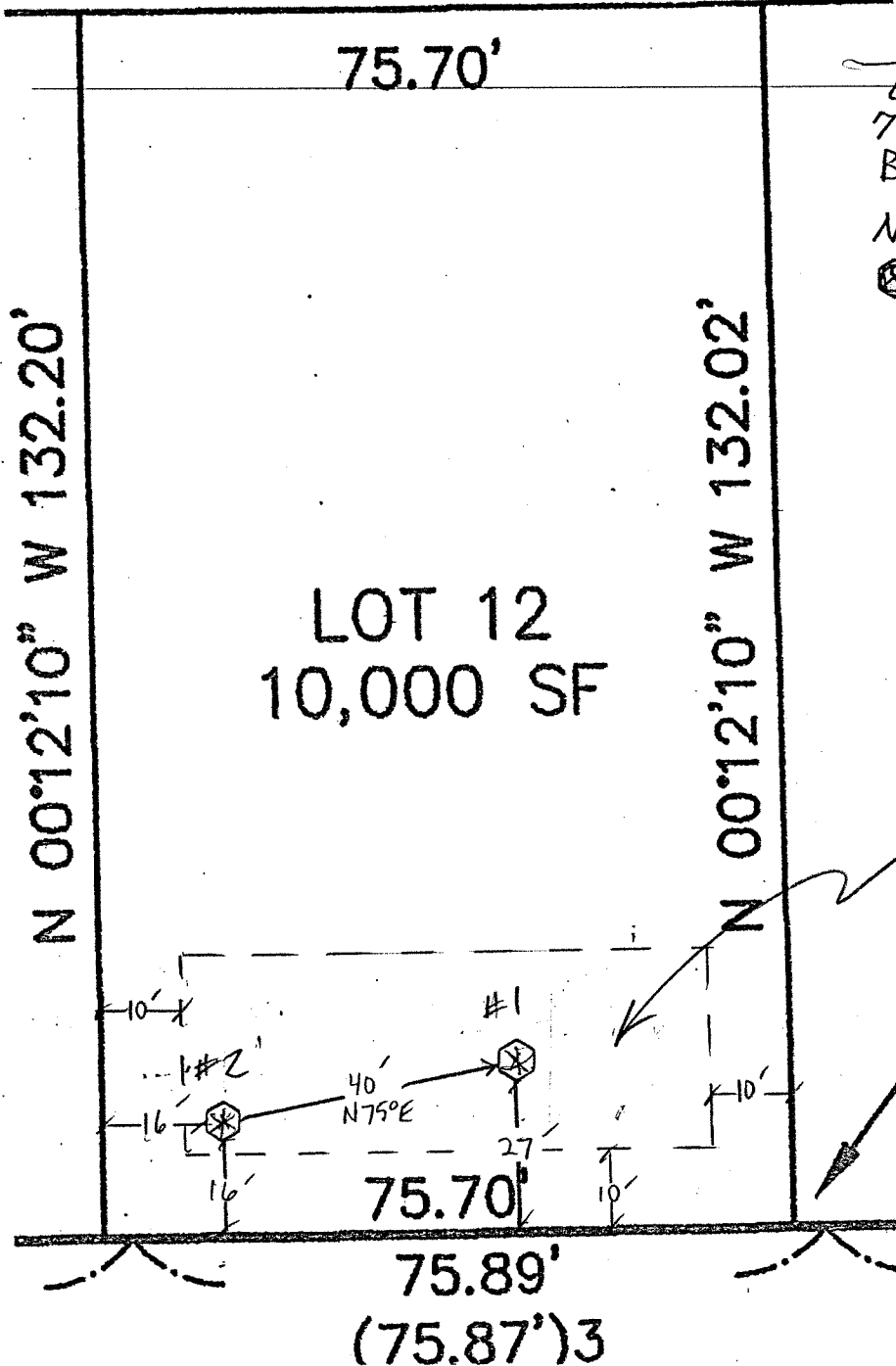
N 89°47'50" E

N 89°47'50" E

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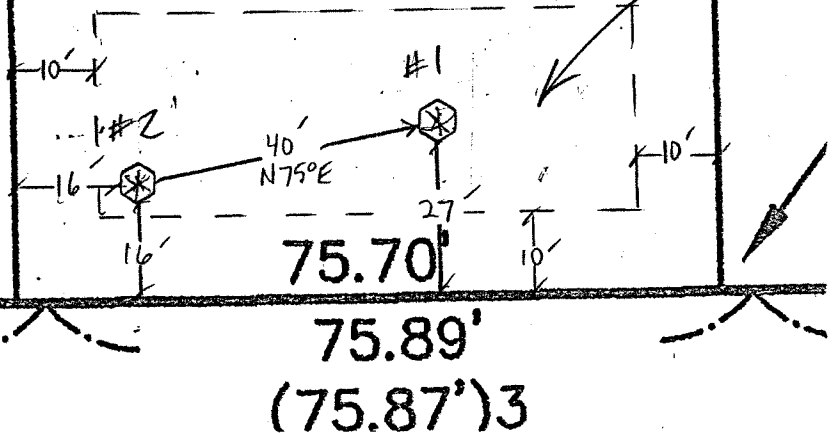
PLOT PLAN

OSBURN/OLSON LLC  
 7N-10W-34C-1200, 1201, 1202, 1400  
 BAILEY LANE LOT 12  
 N ↑ 1/23/08  
 ⊗ TEST HOLE CALS



LOT 12  
 10,000 SF

Acceptable Area for  
 Onsite Sewage Disposal  
 (Initial & Replacement)



17N R10W SEC 34CD WM  
CLATSOP COUNTY

Scale 1:1200



Canceled Accounts

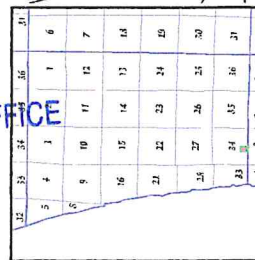
100' 200' 300' 400'

TFT CUSTOM HOMES LLC  
7N-10W-34CD-512  
BAILEY LANE LOT 12  
OSBURN/OLSON LLC  
# 38583

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

FEB 19 2008

NORTH COAST BRANCH OFFICE  
WARRENTON

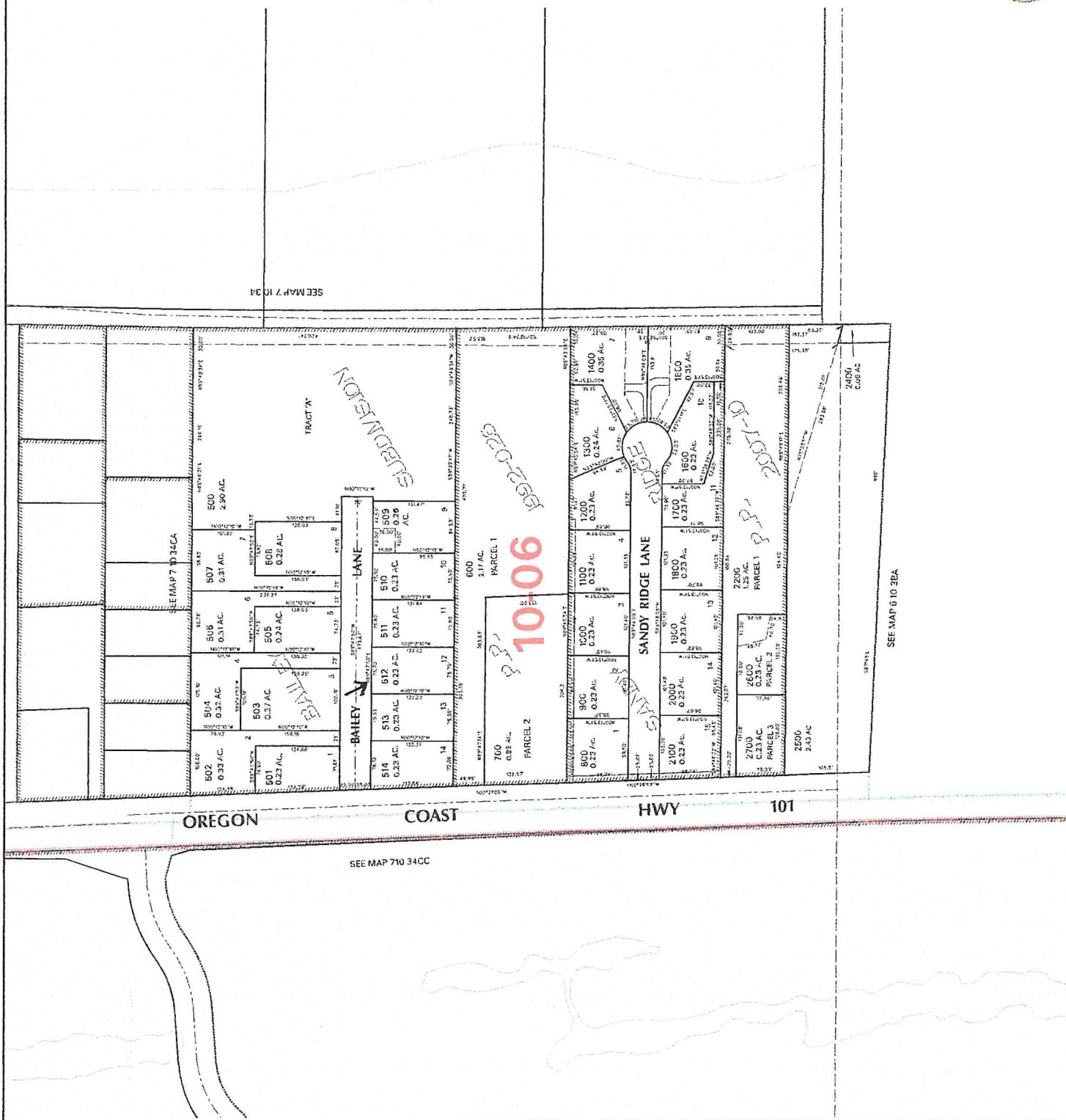


December 28, 2007

7.10.34CD



This map was prepared for purposes of recordation only. It is not intended to be used for any other purpose. The user assumes all responsibility for the accuracy of the information shown on this map.



OREGON

COAST

HWY

101

SEE MAP 710 34CC

SEE MAP 6 10 28A