

64941

Control No.

STATE OF OREGON
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMIT NO. 01-121

\$ 990.00
Fee

[X] New Construction [ ] Repair [ ] Other

Permit Issued To John & Nancy McGuane
(Pine Court, Gearhart, Clatsop)
7N, 10W, 34CB, 1700
Connie M. Schandt
8/22/01

PERMITS ARE NOT TRANSFERABLE

ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL)

SPECIFICATIONS

EXPIRATION DATE August 22, 2002
TYPE OF SYSTEM Alternative Bottomless Sand Filter

Michael's concrete + 500 gal dosing tank w/risers Design Sewage Flow 450 Gallons/Day
Tank Volume 1000 Gallons Disposal Trenches [ ] Seepage Bed(s) [ ] 360 Square Feet
Maximum Depth 36 inches. Minimum Depth -- inches. -- Linear Feet
Equal [ ] Loop [ ] Serial [ ] Pressurized [ ] Minimum Distance Between Trenches --
Total Rock Depth -- inches. Below Pipe -- inches. Above Pipe -- inches. [ ] Rake Sidewall

Special Conditions (Follow Attached Plot Plan) Install in accordance with plans & specifications submitted 8/21/01. Honor all required setbacks. As-built with all notations on approved plan addressed and certification of final construction by installer along with copy of electrical permit and pumping receipt required prior to pre-cover inspection request.
PRE-COVER INSPECTION REQUIRED - CONTACT NCBO -- 861-3280

CERTIFICATE OF SATISFACTORY COMPLETION

As-Built Drawing with Reference Locations
Installer Ron Johnson
Final Insp. Date
[ ] Inspected By
[ ] Issued by Operation of Law
[X] Pre-cover inspection waived pursuant to OAR 340, Division 71

As-built & certification of final construction received 10-31-01.
Electrical permit verification pending construction of house.

In accordance with Oregon Revised Statute 454.665, this Certificate is issued as evidence of satisfactory completion of an on-site sewage disposal system at the location identified above.

Issuance of this Certificate does not constitute a warranty or guarantee that this on-site disposal system will function indefinitely without failure.

(Authorized Signature) (Title) (Date) (Office)

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

OCT 31 2001  
(Date Received)

**FINAL INSPECTION REQUEST AND NOTICE**

NORTH COAST BRANCH OFFICE

WARRENTON

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 the Department of Environmental Quality (or its 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). The Department (or Agent) has 7 days to perform an inspection of the completed construction after the official notice date, unless the Department (or Agent) elects to waive the inspection and authorizes the system to be backfilled earlier. Receipt and acceptance of this completed form by the Department (or Agent) establishes the official notice date of your request for the pre-cover inspection. Please complete all four sections of the form and return it to the office that issued the permit. Forms that are determined to be incomplete will be returned.

**SECTION 1: BASIC INFORMATION.**

Property Owner John + Nancy McQuane Permit Number 01-121 County Clatsop

Township 7N; Range 10W; Section 34CB; Tax Lot 1700; Tax Acct. # \_\_\_\_\_

Job Location Pine Court Gearhart

Date System Construction Completed 10/30/01; Date Submitted to DEQ or Agent 10/31/01

**SECTION 2: MATERIALS LIST. Identify and list all materials used in the system's construction.**

**Tanks:**

- \_\_\_\_\_ 1,000 gal. Norwesco poly
- \_\_\_\_\_ 1,000 gal. Rototech poly
- 1,000 gal. Michaels Septic
- 500 gal Michaels lose

**Bisors:**

- Orenco
- \_\_\_\_\_ Norwesco
- \_\_\_\_\_ Rototech

**Filter Protection**

- Typar 3201 Filter Fabric

**Pipe:**

- \_\_\_\_\_ 1" PVC-200 class
- 1 1/4" PVC- 200 class
- \_\_\_\_\_ 3034 PVC
- \_\_\_\_\_ Drainline ASTM 2729
- \_\_\_\_\_ Drainline ASTM F810

**Distribution Material:**

- \_\_\_\_\_ Tuf-Tite Distribution Box
- \_\_\_\_\_ Tuf-Tite Drop Boxes
- \_\_\_\_\_ Infiltrator
- \_\_\_\_\_ Hydrosplltter

**Pumps:**

- Grundfos PEF33
- \_\_\_\_\_ High Head P300515HHF 1/2hp

**Filter Material:**

- 3/4"-1 1/2" crushed rock
- \_\_\_\_\_ 1/4"-1/2" crushed rock
- Columbia River Sand & Gravel-  
Filter Sand
- \_\_\_\_\_ Naselle Sand & Gravel-  
Filter Sand

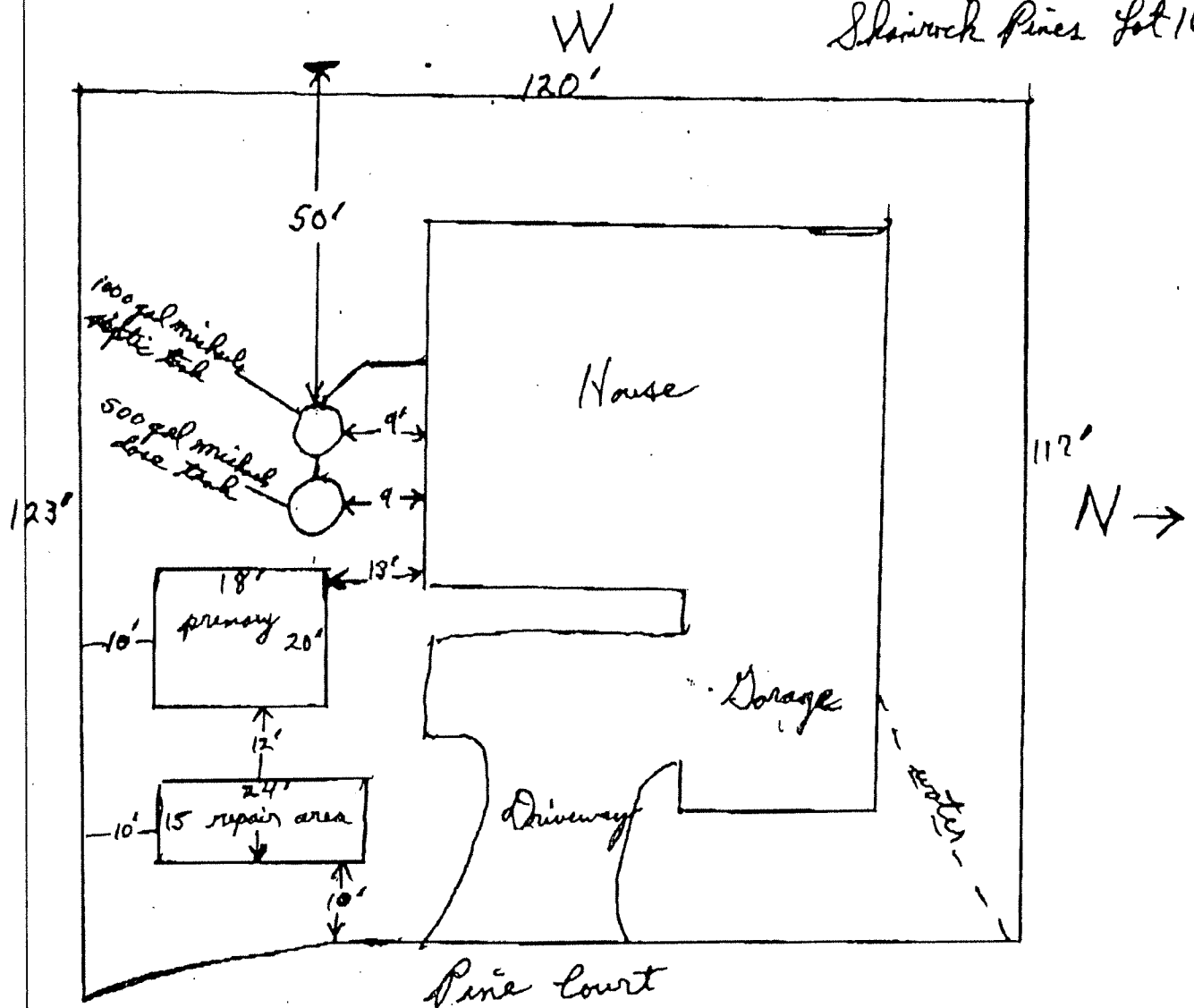
**Miscellaneous:**

- Nylon pull rope
- Orifice shields
- Orenco floats & alarms
- End Sweep on each line
- Screw -on caps on each line
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Property Owner John & Nancy Mc Luana Permit Number 01-121 County Clatsop

**SECTION 3: 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.

*Shawrock Pines Lot 16*



**SECTION 4: CONSTRUCTION WAS PERFORMED BY:**

\_\_\_\_ Property Owner (Permittee)

Sewage Disposal Service Business: H.E. JOHNSON & SONS 33762  
(Print Full Business Name) (License Number)

I certify the information provided in this notice 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).

<u><i>Bob Johnson</i></u>	<u>Installer</u>	<u>10/30/01</u>
(System Installer's Signature)	(Title)	(Date)

Plot Plan for  
John me & Sue  
by Ron Johnson

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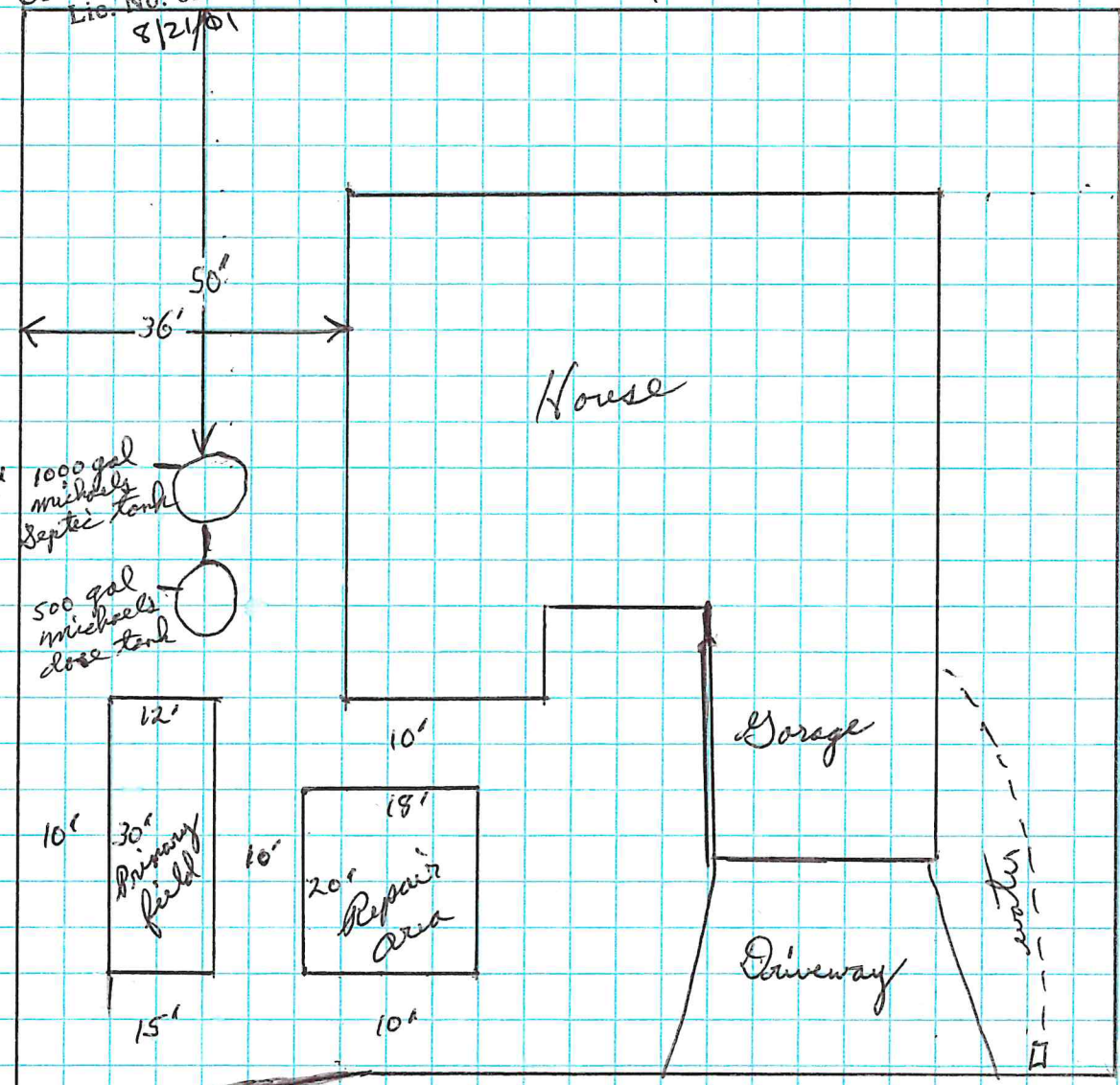
AUG 21 2001

NORTH COAST BRANCH OFFICE  
WARRENTON

Shanrock Pines  
Lot 16

1 square = 5'

**APPROVED**  
Connie M. Schrandt  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
8/21/01



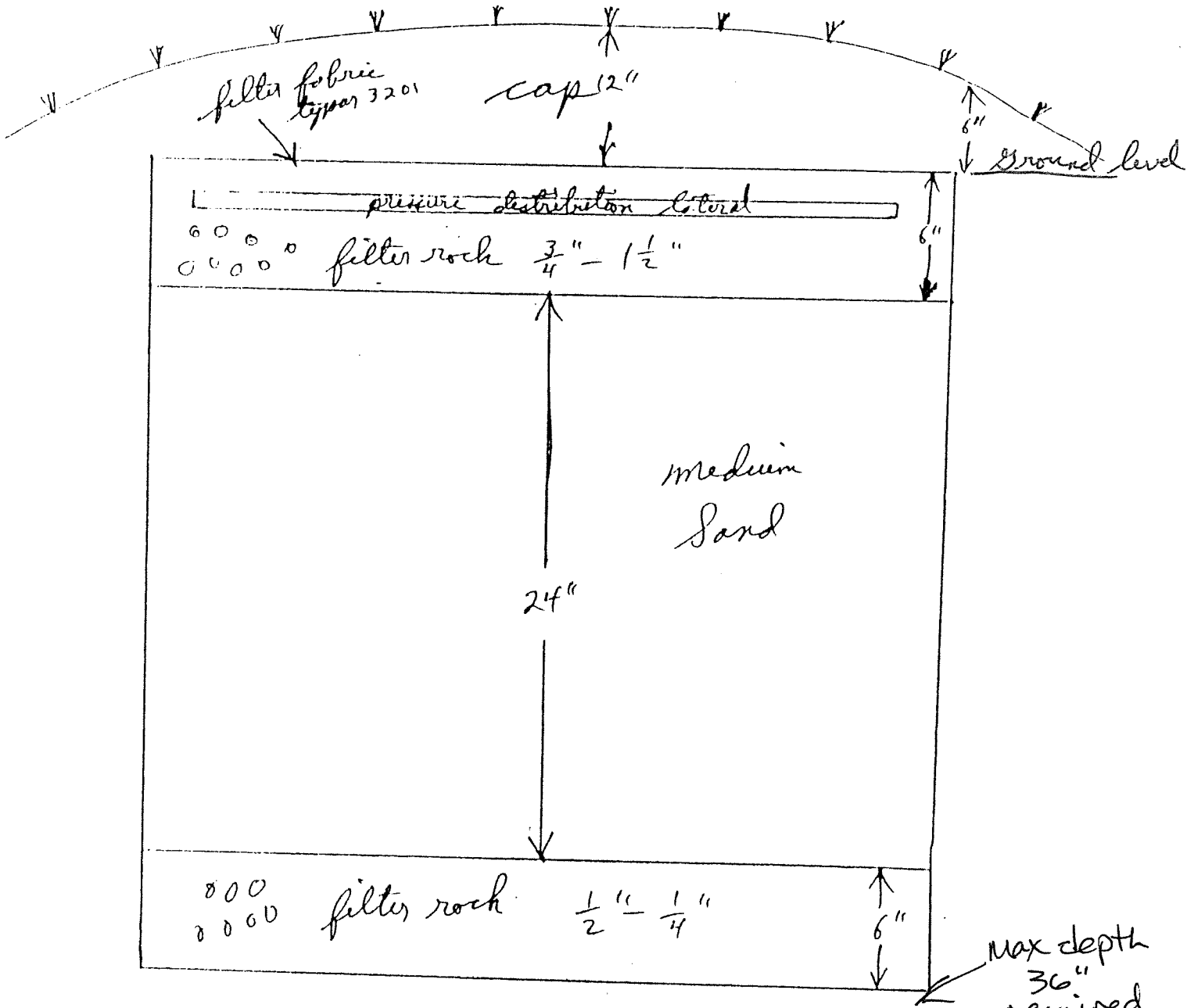
Pine Court

inlined sand filter  
side view

John McGuone  
Shawrock Pines Lot 16

Howard E. Johnson & Sons Construction

CRUSHED ROCK & SCOOP WORK  
Hamlet Rt., Box 271  
Telephone 738-7328  
SEASIDE, OREGON 97138



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**APPROVED**

Connie M. Schrandt  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
8/21/01

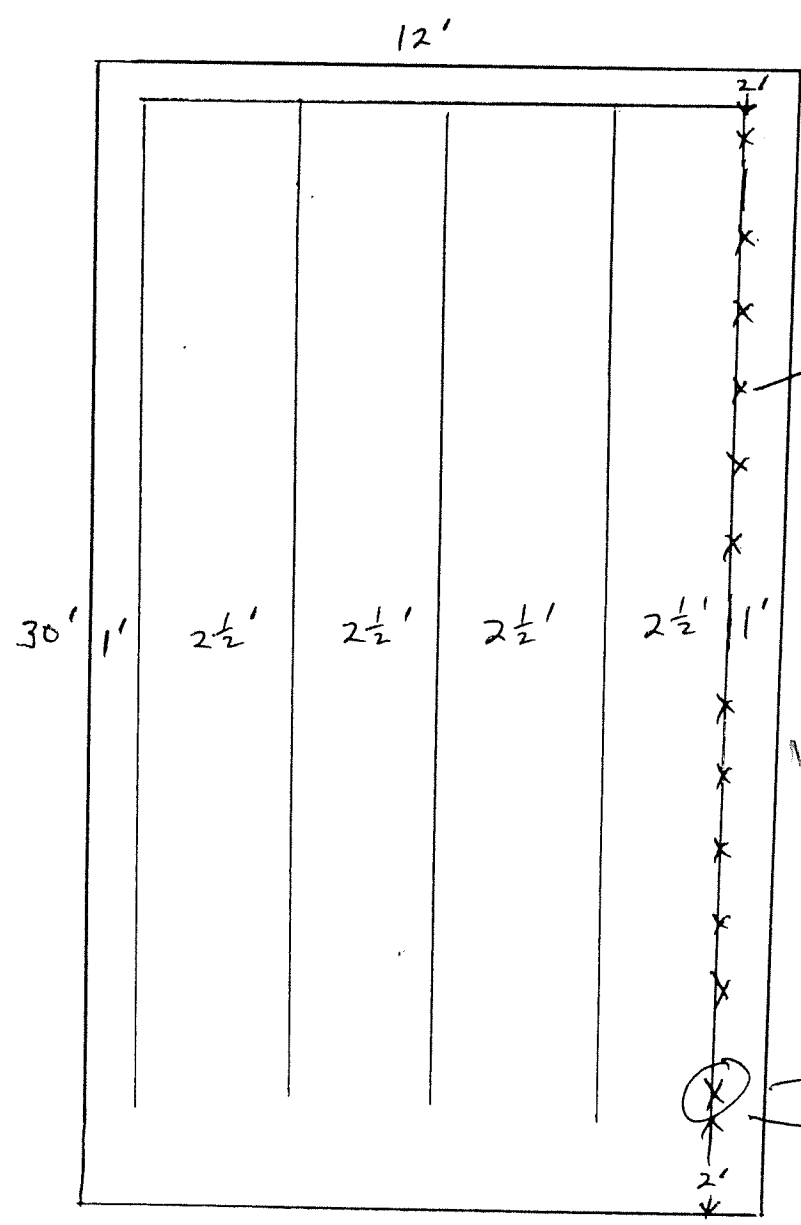
AUG 21 2001

NORTH COAST BRANCH OFFICE  
WARRENTON

Pipe layout  
and hole placement  
on 12' x 30' sand-filter  
by Ron Johnson

Johan Mc Juane  
Shawrock Pines Lot 16  
**Howard E. Johnson & Sons Construction**  
CRUSHED ROCK & SCOOP WORK  
HCR 63, Box 271  
Telephone 738-7328  
SEASIDE, OREGON 97138

13 holes per line  
65 holes total



holes drilled  
on 2' centres

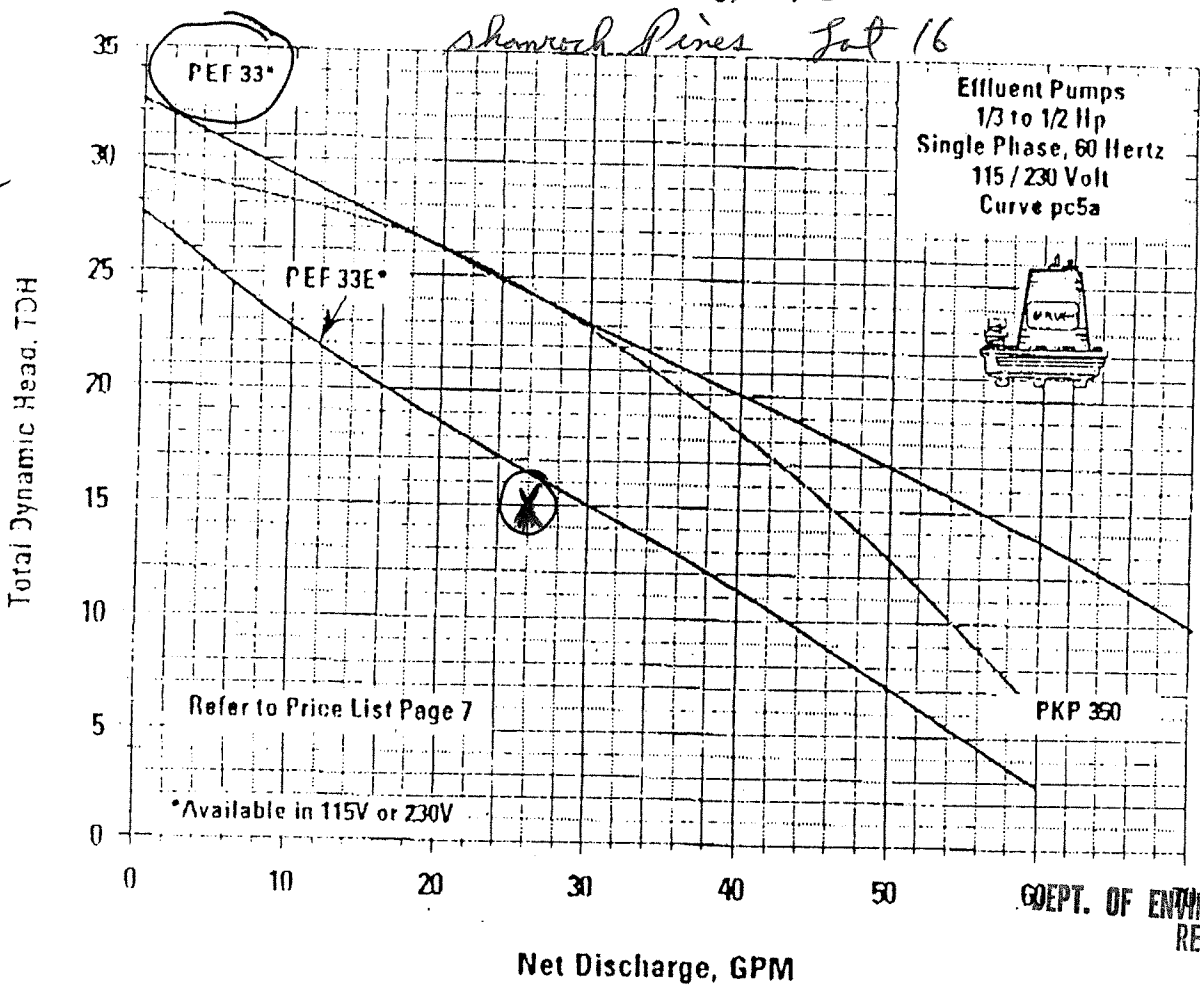
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NORTH COAST BRANCH OFFICE  
WARRENTON

orifice shields  
sweeps with  
screw on caps

**APPROVED**  
Connie M Schrandt  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
8/21/01

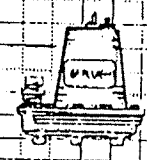
x - denotes 1/8" holes drilled straight up

*John Mc Guane  
Shawach Pines Lot 16*



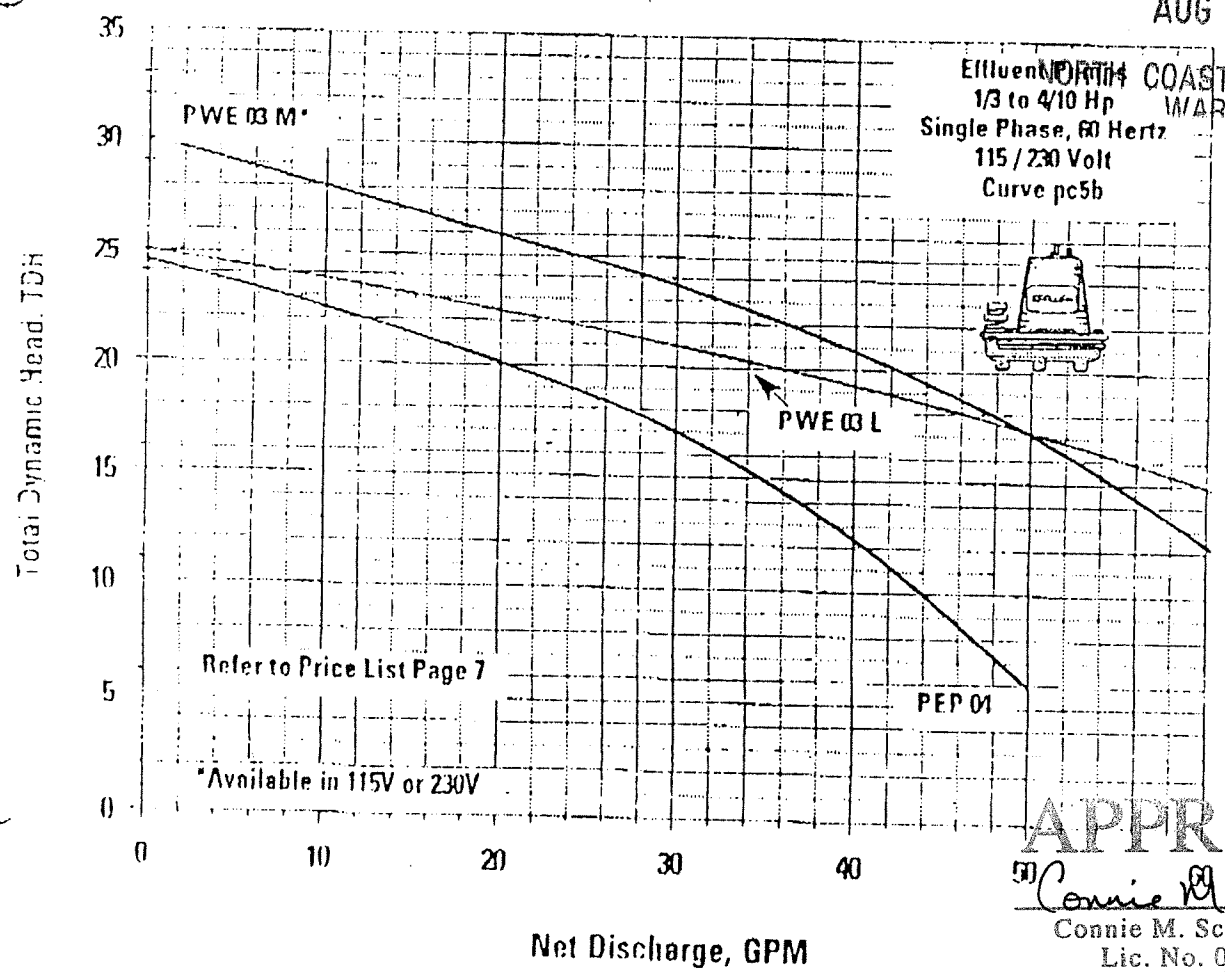
**Oreco Systems**  
Incorporated

814 AIRWAY AVENUE  
SUTHERLIN, OREGON  
97479-9012  
TELEPHONE:  
(541) 450-4449  
FACSIMILE  
(541) 450-2881

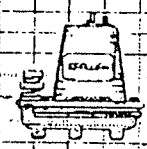


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NORTH COAST BRANCH OFFICE  
WARRENTON



**APPROVED**

*Connie M. Schrandt*  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207750756  
1/24/01  
8/21/01

John Mc Guane  
Shenock Pines Lot 16

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SYSTEM HEAD CALCULATIONS NORTH COAST BRANCH OFFICE  
WARRENTON

1. STATIC HEAD: (vertical elevation difference from the pump base to the pressure distribution laterals) 4 feet

2. SYSTEM ALLOWANCE: (includes distribution piping losses and a five foot residual head discharge at the distribution laterals) 10\* feet

3. FRICTION HEAD: (transport pipe friction loss at flow rate)

(a) Calculate Flow rate:

Diameter of orifices..... 1/8 inch

Number of orifices = N = 65

Orifice discharge rate = R = 141 gpm

Total gallons per minute = N X R = 26,65 gpm

(b) Calculate Friction Head Loss:

Length of transport pipe = P (in feet) 10'

Friction loss coefficient = L (see reverse side) 5.95

Friction Head = P X L = .16 feet

4. TOTAL DYNAMIC HEAD (TDH): (sum of static head, system allowance and friction head) 14.6 feet

5. HYDRAULIC SPECIFICATIONS:

PUMP DUTY: 26,65 gpm @ 14.6 TDH

BRAND: Grundfos

MODEL: PEF 33 HORSEPOWER: 3

CAPACITY: 14.6 TDH @ 56 GPM, and

26,65 GPM @ 24 TDH

APPROVED

Connie M. Schrandt

Connie M. Schrandt, W.W.S.

Lic. No. 0207760756

8/21/01  
3

Footnote: \* in absence of specific head loss calculations, use 10 feet for this factor.



08/21/2001 14:49 3506 09

CRSG

PAGE 02

JetFax M910  
PORT VANCOUVER

22067;  
At: 13806844909

08/21/01

J9PM; JetFax #825; Page 1/1

**CLACKAMAS COUNTY FILTER SAND  
8/7/01**

**SIEVE IND. WT. IND. % ACC. % ACC. %  
RETAINED RETAINED RETAINED PASSING**

#4	12.5	1.21%	1.21%	98.79%
#8	33.6	3.25%	4.46%	95.54%
#16	121.0	11.71%	16.17%	83.83%
#30	360.8	33.96%	50.13%	49.87%
#60	419.6	40.61%	90.74%	9.28%
#100	73.0	7.07%	97.80%	2.20%
#200	11.1	1.07%	98.88%	1.12%
PAN	1.8	0.17%	99.05%	0.05%

1033.1

P.M.

2.81

DRY WEIGHT BEFORE WASH - 1033.1

DRY WEIGHT AFTER WASH - 1023.3

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

**APPROVED**  
*Connie M. Schrandt*  
Connie M. Schrandt, W.W.S.  
Lic. No. 0207760756  
8/21/01

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AUG 21 2001

NORTH COAST BRANCH OFFICE  
WARRENTON

STATE OF OREGON  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
NORTH COAST OFFICE  
65 N. Highway 101, Suite G  
Warrenton, OR 97146  
(503) 861-3280

FOR OFFICE USE ONLY  
Date Rec'd 8-21-01  
Date Completed 8-22-01  
Required Fee 990.00  
Receipt No. 100601  
Control No. 69941

FOR APPLICANT'S USE - (PLEASE PRINT)

0.32 acres  
Lot Size (Acreage or Dimensions)

John & Nancy McGuane  
(Property Owner's Name) (Applicant's Name if Different from Owner)  
Legal Description of Property 7N 18W 34CB 1700 Clatsop  
(Township) (Range) (Section) (Tax Lot/Acct. No.) (County)  
For Parcels in Platted Subdivisions, Indicate Shamrock 16  
(Subdivision Name) (Lot Number) (Block Number)

Proposed Facility

Single Family Residence 4  
(Number of Bedrooms)  
 Other \_\_\_\_\_  
(Specify)

Water Supply

Public (Community System)  
 Private \_\_\_\_\_  
(Indicate: Well, Spring, Etc.)

Existing Facility

Single Family Residence \_\_\_\_\_  
(Number of Bedrooms)  
 Other \_\_\_\_\_  
(Specify)

APPLICATION FOR:

- Site Evaluation Report  
 Permit to Construct On-Site Sewage Disposal System  
 Permit to Repair On-Site Sewage Disposal System  
 Permit for Alteration of On-Site Sewage Disposal System  
 Permit Renewal  
 Existing System Report  
 Plan Review  
 Other (Specify) \_\_\_\_\_
- Authorization Notice  
Purpose of Authorization Notice  
 Connect to an existing system not currently in use  
 Replace one mobile home with another or a house  
 Replace or rebuild a house  
 Addition of one or more bedroom  
 Personal hardship  
 Temporary housing  
 Other (Specify) \_\_\_\_\_

This application will be returned if it is not filled out completely and accompanied by the appropriate fee and attachments required in the guidance packet. Your site must be prepared according to instructions in the guidance packet before action can be taken on this application.

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

John McGuane  
(Signature)

8/21/01  
(Date)

Authorized Representative  
 Licensed Installer  
License No. \_\_\_\_\_

Owner's Mailing Address

Applicant's Mailing Address (if different)

JOHN & NANCY MCGUANE  
P.O. BOX 2217  
GEARHART, OR. 97138

Phone \_\_\_\_\_

IW\WC8\WC8690 (7-19-91)

Phone 738-4174

DEPARTMENT OF ENVIRONMENTAL QUALITY  
LAND USE COMPATIBILITY STATEMENT (LUCS)

For On-Site Sewage Disposal System Permits  
DEPT. OF ENVIRONMENTAL QUALITY  
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SECTION 1: TO BE FILLED OUT BY APPLICANT

1. Name of applicant John + Nancy McGuane Telephone AUG 21 2001  
(503) 738-4174  
Mailing address P.O. Box 2217 NORTH COAST BRANCH OFFICE  
WARRENTON  
City Gresham State OR Zip 97138

2. Property Information:

County Clatsop  
Township 7N Range 10W Section 34CB Tax Lot # 1700  
Subdivision name if applicable: Shamrock Acres Block \_\_\_\_\_ Lot 16

3. This proposal is for:

- An Individual Single Family Residence, or
- Other (if other, describe type of development, business or facility and the provided services or products)

4. Check type of permit or approval you are requesting:

- On-Site Construction-Installation permit (includes new construction, repairs or alterations)
- On-Site Authorization Notices (such as replacement of dwellings, bedroom additions, or change land use involving potential sewer flow increases)
- Non-water carried facility requests (includes pit privies, vault toilets)

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

5. The facility proposal is located:  inside city limits;  inside the UGB;  outside UGB

If inside the UGB, the facility is subject to:  
 city jurisdiction, or  
 county jurisdiction, or  
 shared city/county jurisdiction.

6. Is a public notice and hearing required?  yes  no hearing date \_\_\_\_\_

7. The business or facility complies with all applicable local land use requirements:  yes  no

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURES; (both county and city planning officials may need to sign if use is within a UGB)

Dennis McNally Dennis McNally 503-738-5501 8/21/01  
city 53 City Administrator  
Planning Official (county) Print Planning Official's Name Title Phone Date

*Clackamas  
County*DEPARTMENT OF  
TRANSPORTATION AND DEVELOPMENT

Sunnybrook Service Center

June 11, 2001

Lynn Ringheim  
Columbia River Sand & Gravel  
P O Box 1039  
Camas, WA 98607

Subject: SAND FILTER MEDIA  
Columbia River Sand & Gravel

We received the sieve analysis dated June 7, 2001 for Columbia River sand and Glacier sand. This analysis appears to meet minimum DEQ specifications for "medium sand" for sand filter construction. The material is approved for a period of 90 days from the date of the test.

Please feel free to contact me at (503) 353-4740 should you have questions regarding this matter.

A handwritten signature in cursive script that reads "Larry Olander".

Larry Olander-Soils Scientist  
Building Services

LO/lr  
Cc: Soils Staff

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

AUG 21 2001

NORTH COAST BRANCH OFFICE  
WARRENTON

9101 SE Sunnybrook Blvd. ■ Clackamas, OR 97015 ■ Phone (503) 353-4400 ■ FAX (503) 353-4273

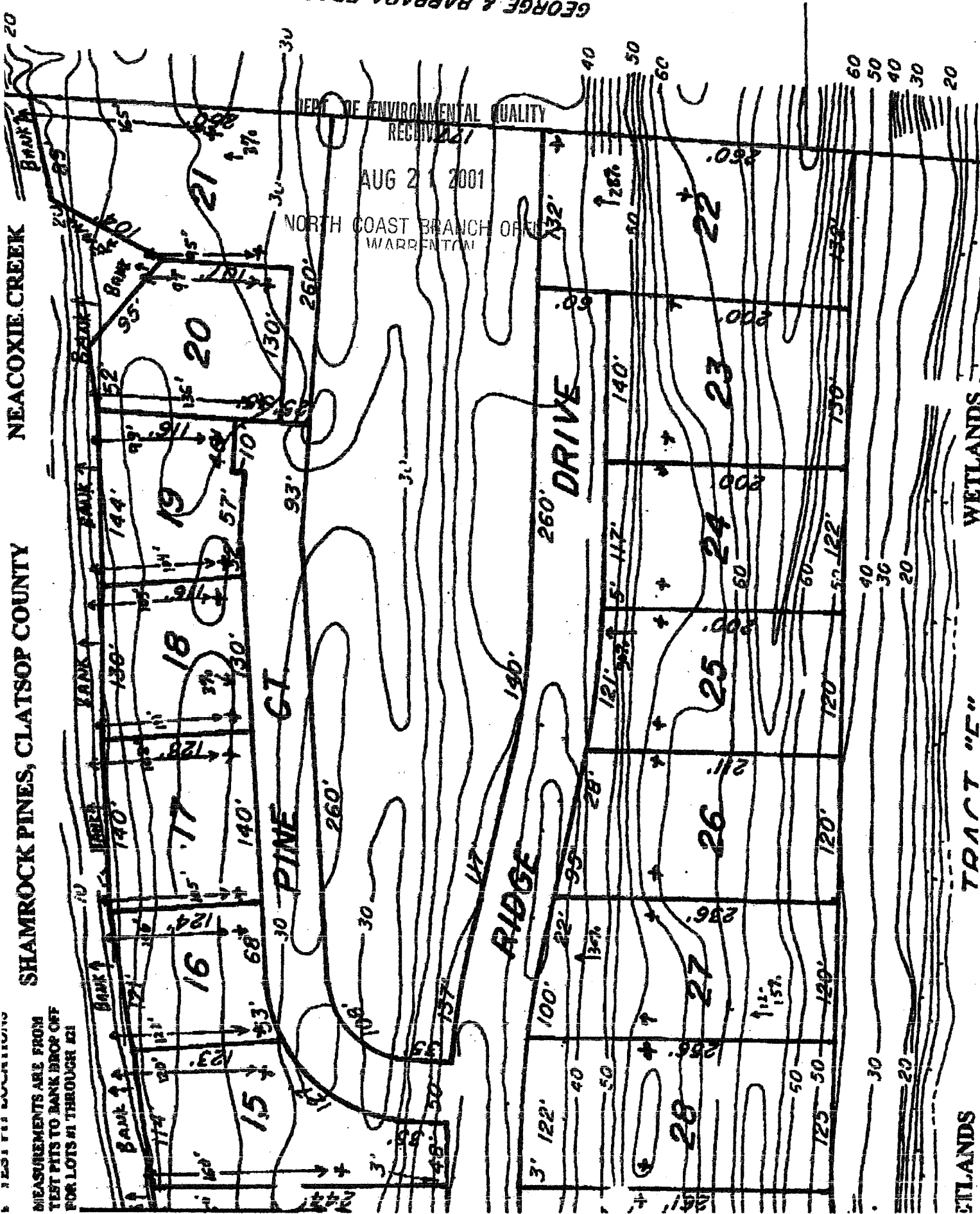
MEASUREMENTS ARE FROM  
TEST PITS TO BANK DROP OFF  
FOR LOTS #1 THROUGH #21

1503051329

SHAMROCK PINES, CLATSOP COUNTY

NEACOXIE CREEK

20



GEORGE & BARBARA FRASER

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AUG 21 2001

NORTH COAST BRANCH OFFICE WARRENTON

WETLANDS

TRACT "E"

WETLANDS

20

10

15-38

15-38

10

MAY 6 1996

NORTH COAST BRANCH OFFICE  
WARRENTON

Oregon

May 3, 1996

RICHARD CHARLTON  
5426 NW BURNING TREE CT  
PORTLAND OR 97229

DEPARTMENT OF  
ENVIRONMENTAL  
QUALITY

RE: OSS:NWR: CLATSOP COUNTY:  
SITE EVALUATION REPORT FOR SHAMROCK  
PINES SUBDIVISION: LOTS 1 THROUGH 31 & LOTS  
33 THROUGH 41: TWN 7N, RNG 10W, SEC 34, TAX  
LOT 809.

Dear Mr. Charlton:

In response to your recent application for site evaluations of the proposed Shamrock Pines subdivision, the above-described property was examined on April 9, 1996, to determine the methods of on-site sewage disposal for which it is suited. Lot 32 was not part of this application for evaluation. This evaluation report consists of three pages, and the map of test pit locations for each lot. This evaluation and report is based upon current DEQ regulations governing on-site sewage disposal, Oregon Administrative Rules (OAR) 340, Divisions 71 and 73. Lots less than one-half acre which exceed the sewage loading rate have been evaluated in conformance with OAR 340-71-400(5), which allows for special consideration of small lots overlying the Clatsop Plains aquifer. This loading rate is based on projected nitrate contamination to the ground water in unconfined aquifers overlaid with rapidly draining soils.

The following lots have been found suitable for a pressurized disposal system.

- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15;
- Lots, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31;
- Lots 33, 34, 35, 36, 37, 38, 39, 40.

The system for each lot would have the capacity to serve a single family dwelling, with no more than 4 bedrooms. Peak daily sewage flow into the system is limited to 450 gallons, with an average daily sewage flow of not more than approximately 225 gallons per day. Premature system failure may occur if either flow limit is exceeded. Please note that the size of many of these lots are such that placement of the system must be carefully considered to maintain setbacks. If development plans of a specific lot does not allow for the setbacks to be maintained, a sand filter system will be required or the evaluation may be voided at the option of the Department.

The initial systems will each consist of an 1100 gallon dosing septic tank, associated controls and alarm, and a 600 sq. ft. pressurized seepage bed. The seepage bed for each lot shall not be installed deeper than 36 inches into the natural soil. The replacement systems when needed in the future, will consist of the same type system as the initial.

John A. Kitzhaber  
Governor



2020 SW Fourth Avenue  
Suite 400  
Portland, OR 97201-4987  
(503) 229-5263 Voice  
TTY (503) 229-5471  
DEQ-1

May 2, 1996

Page 2

The following lot has been found suitable for a pressurized disposal system.

Lot 20.

The initial system for this lot will consist of an 1100 gallon dosing septic tank, associated controls and alarm, and a 600 sq. ft. pressurized seepage bed. The seepage bed shall not be installed deeper than 36 inches into the natural soil. The replacement system when needed in the future, will consist of a conventional sand filter system, discharging the effluent through the bottom.

The following lots have been found suitable for a conventional sand filter system.

Lots 16, 17, 18, 19 and 41. Sand filter systems are required on these lots due to the following limitations for placement of a on-site sewage disposal system.

- 1) The required 100 foot setbacks from the bank drop off of Neacoxie Creek for lots 16 through 19 cannot be maintained for seepage bed systems.
- 2) Lot 41 has limited area due to the cut bank to the south and the proposed cut for the road.

The system for lot 41 would have the capacity to serve a single family dwelling, with no more than 4 bedrooms. Peak daily sewage flow into the system is limited to 450 gallons, with an average daily sewage flow of not more than approximately 225 gallons per day. Premature system failure may occur if either flow limit is exceeded.

The initial systems for these lots will consist of an 1100 gallon dosing septic tank, associated controls and alarm, and a 360 sq. ft. pressurized sand filter, discharging the effluent through the bottom. The sand filter shall not be installed deeper than 36 inches into the natural soil. The replacement systems when needed will consist of the same type system as the initial.

Please refer to the enclosed lot maps for information about the site observations and location of the test pits. The location for the seepage beds shall be in the vicinity of the test pits, meeting all setbacks, including 100 feet from the bank drop off for Neacoxie Creek to the west and 100 feet from the bank drop off to the permanent surface water to the east. The area to the east is noted as "wetlands" on the proposed plat map. The location of all sand filters shall be in the vicinity of the test pits, meeting all setbacks, including 50 feet from the bank drop off for Neacoxie Creek to the west. The location of the sand filter on lot 41 shall be in the area specified on the map as "approved area". Location of all systems must setback a minimum of 25 feet from any existing or future cut bank. This setback may be difficult to meet for some lots that will have the access road near the evaluated areas. If the setbacks cannot be maintained, the site evaluation will be void or another system may be required that can maintain the setback at the Departments option.

May 2, 1996

Page 3

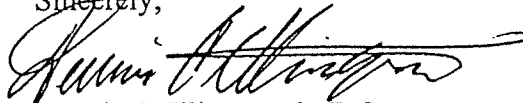
A construction-installation permit is required to install each sewage system on an approved site. Please contact the North Coast Branch Office of the Department of Environmental Quality for information regarding permit procedures and necessary fees. The phone number is 503-861-3280.

This approval is given on the basis that each lot or parcel described above will not be further partitioned or subdivided, and that conditions on the subject or adjacent properties have not been altered in any manner which would prohibit issuance of a permit in accordance with O.R.S. 454.605 through 454.745 and Administrative Rules of the Environmental Quality Commission (EQC). Each approved site must not filled or graded in the area where the soil absorption facility is to be located. Any such subdivision, partitioning or alteration may void this report.

**WARNING:** This is a technical report for on-site sewage disposal only. It may be converted to a permit **only** if, at the time of permit application, the property has been found to be compatible with applicable LCDC-acknowledged local comprehensive land use plans and implementing measures or the Statewide Planning Goals. The report will remain valid until an on-site sewage system is installed pursuant to a construction-installation permit obtained from the Department of Environmental Quality, or until earlier cancellation, pursuant to EQC rules, with written notice thereof by the Department to the owners according to DEQ records or the County tax records. Subject to the foregoing, this report runs with the land and will automatically benefit subsequent owners.

As an aside to this report, it is noted the work of both the surveyor and backhoe operator for this project was very helpful. The map of the test pit locations to scale and the accessibility of the test pits were appreciated.

Sincerely,



Dennis C. Illingworth, R.S.  
Environmental Specialist

Cc: NCBO: DEQ

Karl F. Foeste,  
361 SW Main  
Warrenton OR 97146

Michael Malarkey  
PO Box 1186  
Scapoose OR 97056

Don Lampi  
1441 S Main  
Warretnon OR 97146

City of Gearhart  
Planning Office  
PO Box 2510  
Gearhart OR 97138

Clatsop County Dept. of Planning  
and Development  
800 Exchange  
Suite 100  
Astoria OR 97103

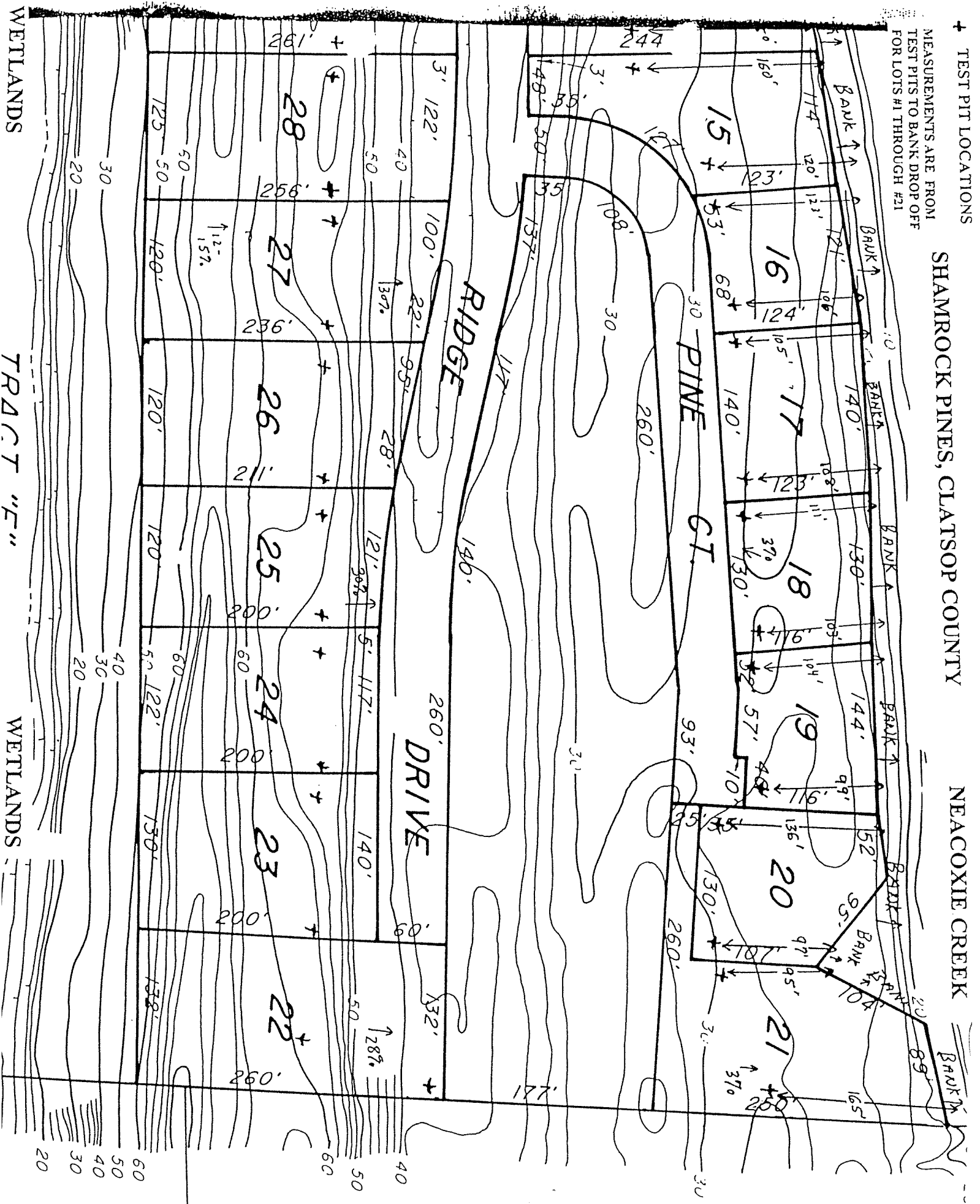
Enclosures



+ TEST PIT LOCATIONS  
 MEASUREMENTS ARE FROM  
 TEST PITS TO BANK DROP OFF  
 FOR LOTS #1 THROUGH #21

SHAMROCK PINES, CLATSOP COUNTY

NEACOXIE CREEK



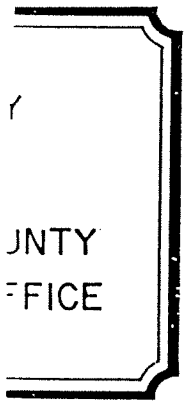
WETLANDS

TRACT "E"

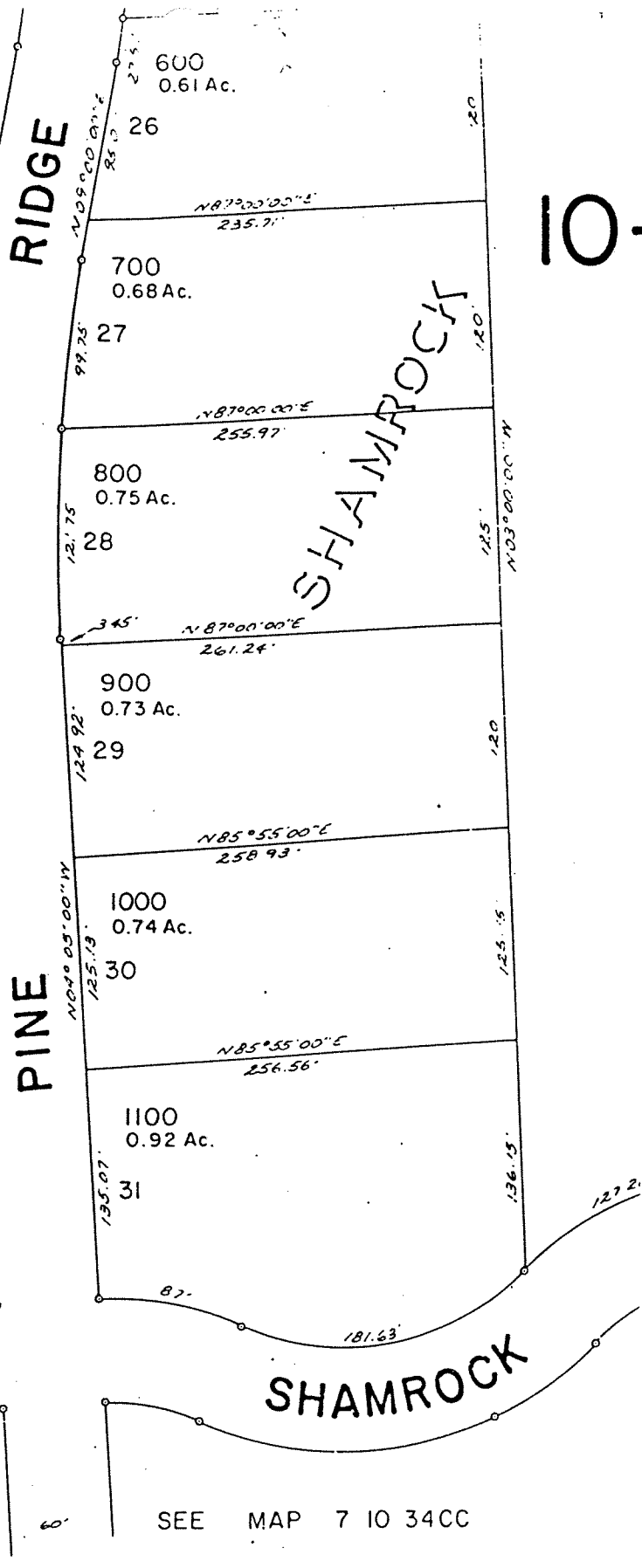
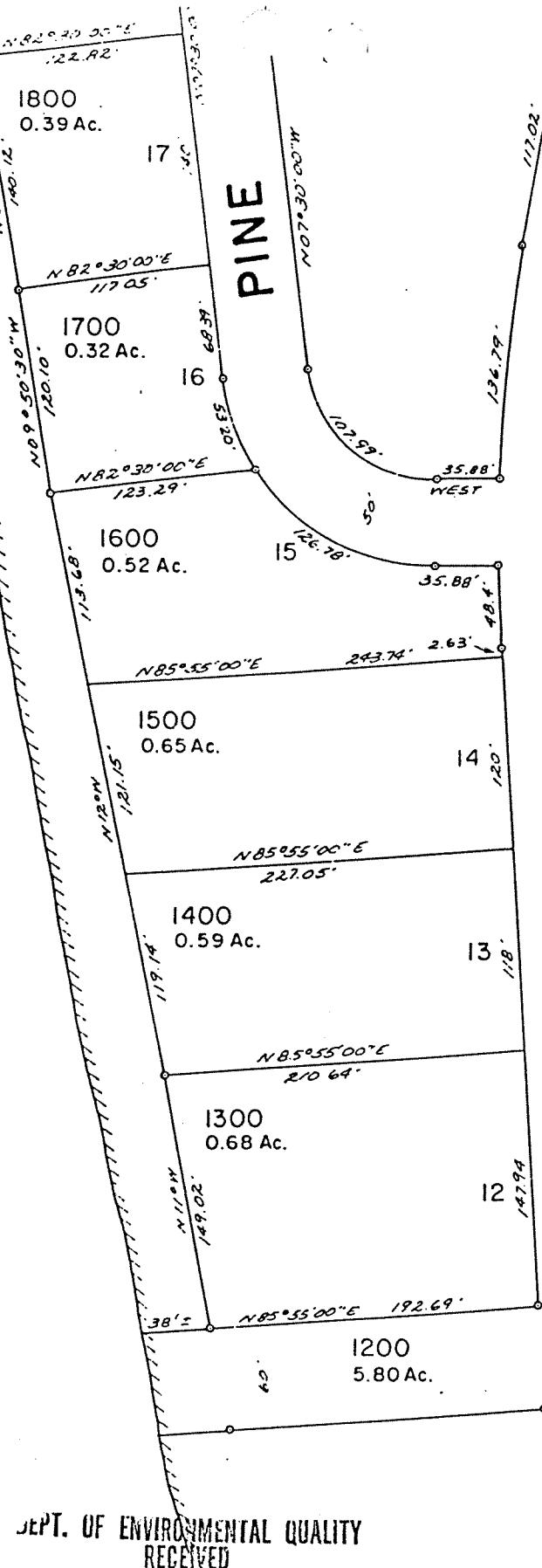
WETLANDS

N E A C U

JNTY  
FICE



TRACT "B"



DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

AUG 26 1997

NORTH COAST BRANCH OFFICE  
WARRENTON

SEE MAP 7 10 34CC