



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TTY (503) 229-6993

August 22, 2002

Rick C. Steele
Steele's Septic Tank Service
57992 Foothill Road
La Grande, Oregon 97850

Re: 1600-Gallon Two-Chamber Combination Septic & Dosing Tank Approval

Dear Mr. Steele:

The Oregon Department of Environmental Quality (Department) has reviewed the revised plan, specifications and other associated materials you provided for the concrete 1600-gallon two-chamber combination septic and dosing tank manufactured by your company. I am pleased to advise that the tank configuration has been found to comply with the Department's standards.

Steele's Septic Tank Service is authorized to manufacture and distribute the tank configuration for use in on-site sewage treatment systems in Oregon until further notice, providing the following conditions are met:

1. The tank must be manufactured in compliance with the Department's rules and the enclosed plans and design specifications. Any deviation from the plans and specifications shall not be permitted unless and until authorized in writing by this office.
2. The records indicate that ConSeal is used as a concrete joint sealant. A concern is that should the lid from a riser be removed to service the tank, the riser would be no longer being watertight when the tank is placed back into service. Please specify in your installation manual that a new ConSeal bond needs to be established whenever the riser cover is removed during a service call.
3. The plans indicate concrete riser covers that appear heavier than 75 pounds. Your plan approval that you concurred with requires reducing all riser cover weights to less than 75 pounds for easy lifting and servicing.
4. The concrete mix shall be in accordance with the mix description on the plans prepared by Blue Eagle Engineering. The minimum concrete strength of 3,000 psi specified by Mr. Tipton shall actually be achieved. Three concrete sample cylinders shall be taken and tested for each tank manufactured until the minimum compressive strength is obtained. Thereafter, at least one concrete sample cylinder for each five tanks produced shall be taken. Samples shall be tested for compressive strength. Samples shall be alternately broken at 7 and 28 days. All samples shall be field cured where the tanks are stored. Laboratory curing of additional samples may be done at your option. All test results shall be made available for Department review upon request.

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5. Each tank shall be cured and protected from premature drying and excessive hot or cold temperatures for the first ten days following casting. Tanks may be shipped from the casting yard after seven days, or earlier if the concrete has reached two-thirds of its design strength.
6. It is the responsibility of your business to insure that each assembled tank delivered to the construction site is watertight. It is expected that Steele's Septic Tank Service will pre-test some percentage of the tanks at the plant to verify they are water-tight.
7. You are to deliver to the purchaser a fully assembled and complete tank, and provide the necessary tank risers and covers.
8. Specific effluent filter details were not identified your submittal. Effluent filters that comply with Oregon's requirements (described in OAR 340-073-0056) are acceptable for use in your septic tanks, provided the filter selected is designed to be inserted into the 4-inch diameter Sch. 40 ABS outlet Tee. Care must be taken to insure the Tee fitting is fully accessible through the tank's service access riser.
9. Each tank shall be delivered with the installation guide. The guide shall be printed on waterproof paper or equivalent.
10. These tanks are only acceptable for use at locations where the top loading will not exceed the engineering design parameters. Tanks proposed for use at other locations shall require an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.
11. Each tank shall be marked on the uppermost tank surface over the outlet with the liquid capacity, date of manufacturer, burial depth limit, and either your full business name or the assigned number **131**.

The approved plans and specifications are enclosed. Please feel free to contact Mr. Ed Woods if you have questions about this letter. His phone number is (503) 229-5415.

Sincerely,

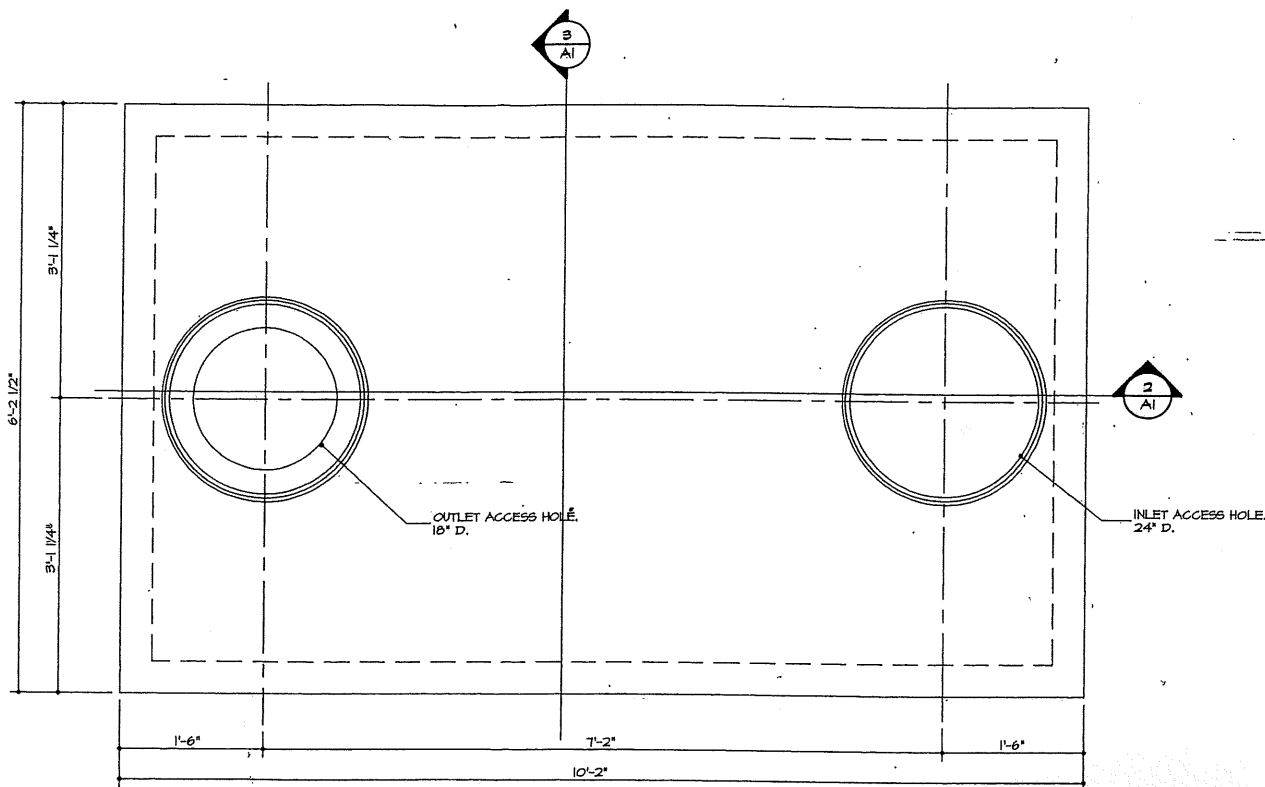


Michael T. Llewelyn, Administrator
Water Quality Division

ML: bnp

Enclosures :

cc: DEQ & Contract County offices, Eastern region
Dick Nichols, ER
Andy Schaedel, NWR
Greg Farrell, WR



GENERAL NOTES

ALL CONCRETE TO BE MIN 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 LAP REINFORCING STEEL MIN 12".
 ALL REINFORCING STEEL TO BE MIN GRADE 60 KSI OR BETTER.

① WATERTIGHT SEAL. USE FLEXIBLE RESIN BUTYL SEALANT BY "CONCEAL". MINIMUM 3/4" THICK. TYPICAL OF ALL WATER TIGHT CONNECTIONS.
 FOR DETAILS OF ORENCO PUMP VAULT ASSEMBLY SEE "MANUFACTURER'S" SPECIFICATIONS.

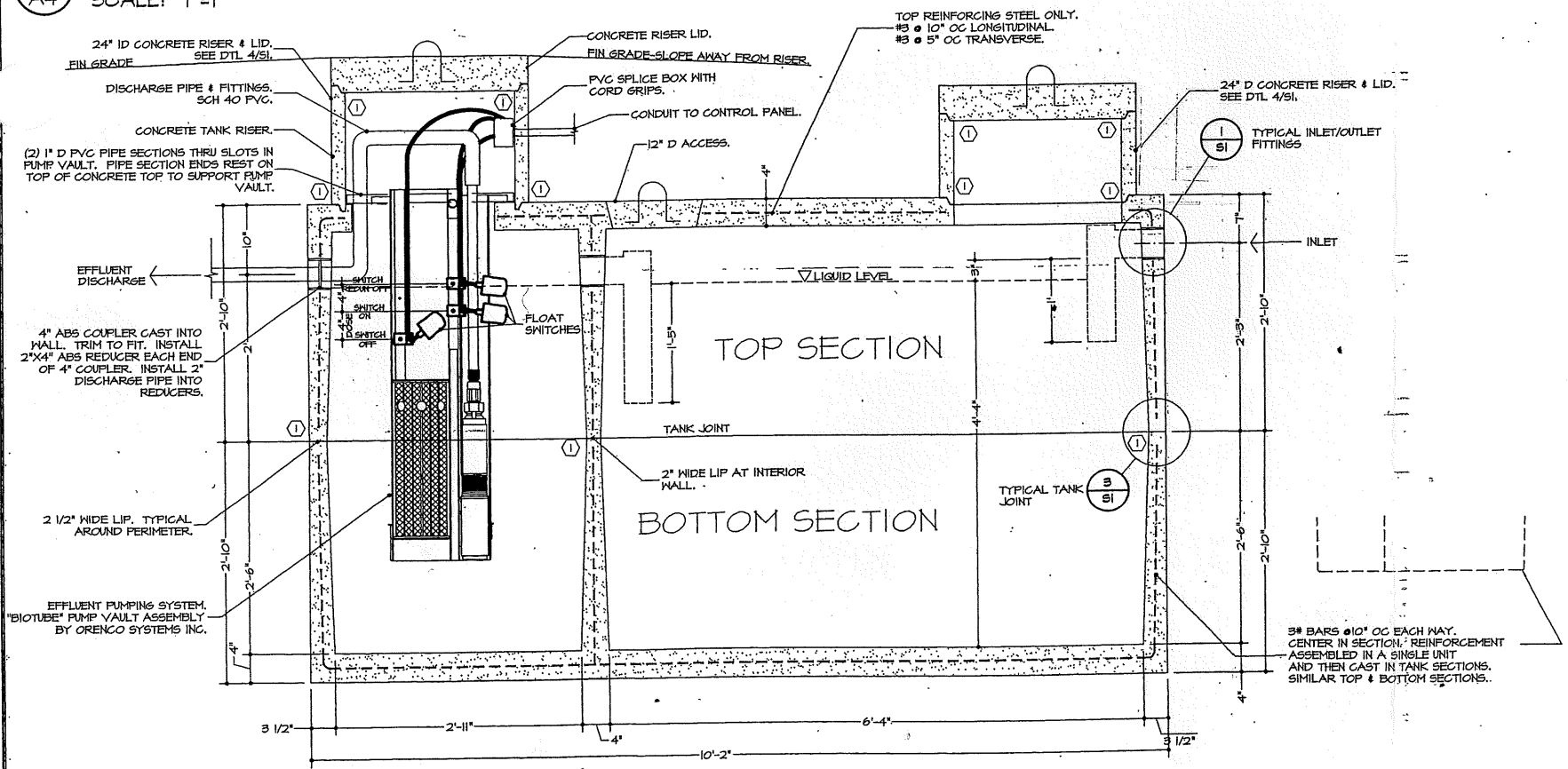
PLAN APPROVED

Date 4/22/02 Signed M+L
 Stamped by D. Wiltse
10/11/12

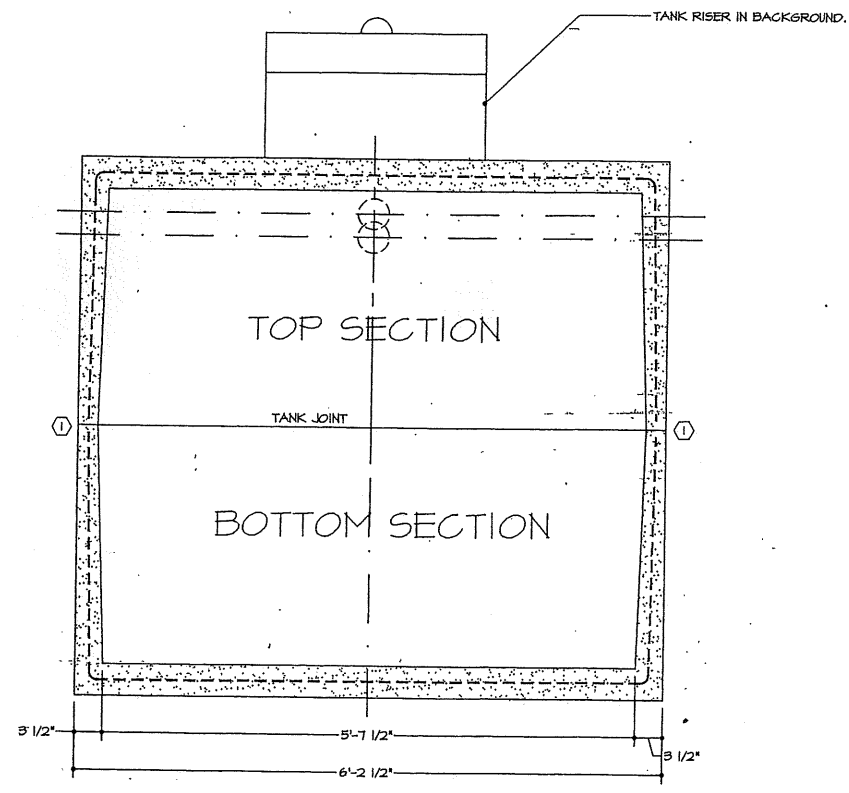
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 AUG 1 2002
 Water Quality Division
 Dept. of Environmental Quality

BLUE EAGLE ENGINEERING CO., INC.
 PROFESSIONAL ENGINEERING & ENVIRONMENTAL SERVICES
 69631 SUMMERVILLE ROAD • SUMMERVILLE, O.A.
 Phone/Fax: 541.534.5040

① **TOP VIEW**
 A4 SCALE: 1"=1'



② **LONGITUDINAL SECTION**
 A4 SCALE: 1"=1'



③ **X-SECTION**
 A4 SCALE: 1"=1'

SCALE
 1"=1'-0"

DOSING SEPTIC TANK
STEELE TANK #8
1600-GALLON CAPACITY
 STEELE'S SEPTIC TANK SERVICE
 LA GRANDE, OR 97850

REGISTERED PROFESSIONAL ENGINEER
 16,904
 L. Wiltse
 JULY 21, 1993
 LES TPTOR
 DPRES 4/30/04

SHEET
A4



Oregon

Theodore R. Kulongoski, Governor

Department of Environmental Quality

2146 NE 4th Street, Suite 104

Bend, OR 97701

(541) 388-6146

Eastern Region

Bend Office

BTD Copy

September 23, 2004

Steele's Septic Tank Service
Attn: Shon Steele
57992 Foothill Road
La Grande, OR 97850

Re: 1600-Gallon Two Compartment Tank
– Second Compartment
“Tee” Fitting

Dear Mr. Steele:

As we discussed the other day on the phone, subsequent review of the August 2002 plans for this tank configuration revealed a minor oversight in design. This oversight involves the placement of a “tee” fitting on the inlet side of the second compartment.

Oregon Administrative Rule (OAR), 340-073-025 (8) for Septic Tanks states, “In tanks with more than one compartment, a 4 inch diameter (minimum) “tee” fitting shall be placed in each common compartment wall, using the same specifications as required for the outlet fitting. The invert of this “tee” fitting shall be at the same elevation as the outlet “tee”. Access ports and risers shall be provided for inspection and maintenance.

When the second compartment of this tank is to be used as a dosing or pump tank, the inlet “tee” fitting into the second compartment may need to be lengthened as specified in 340-073-0050 (6) for Dosing Tanks which states, “The inlet fitting shall extend below the lowest operating level of the pump or siphon.”

Therefore, we ask that all tanks manufactured after Monday, September 27, 2004 comply with the above mentioned modifications.

Thank you for both your understanding and cooperation in this matter. If you have any additional question about the requirements stated in this letter, please be sure to contact me at 541-388-6146, ext. 230.

Sincerely

Robert Baggett
Natural Resource Specialist 4
Bend Office

RB/ns

cc: Uri Papish, DEQ HQ, Portland
Joni Hammond & Bernie Duffy, DEQ Pendleton
Diane Naglee, DEQ Baker City

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SEP 27 2004

State of Oregon
Dept. of Environmental Quality
Eastern Region - Pendleton