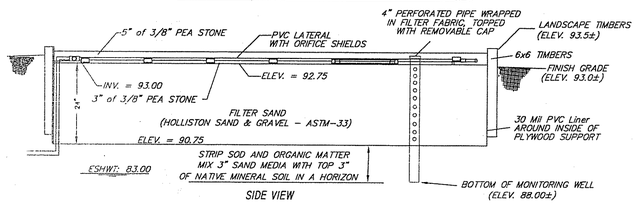
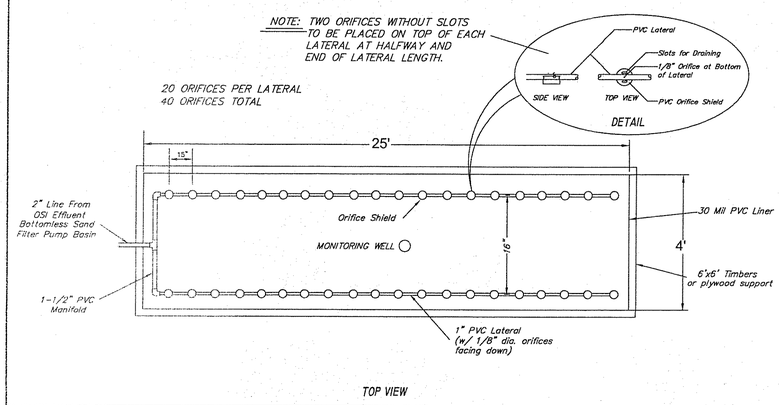
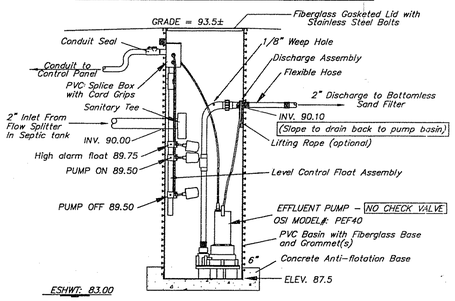
BOTTOMLESS SAND FILTER NOT TO SCALE





30" DIA. BOTTOMLESS SAND FILTER PUMP BASIN WITH EFFLUENT PUMP ASSEMBLY AND ULTRAVIOLET DISINFECTION NOT TO SCALE



LIST OF SYSTEM COMPONENTS

1. 1,500 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING VALVE. W/OSIPF300511 (6 STAGE) PUMP TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING
2. 6' DEEP - 30" DIAMETER PUMP BASIN. W/OSI MODEL#: PEF40 & ULTRAVIOLET DISINFECTION
3. AX-20 ADVANTEX TEXTILE FILTER.
4. 4' LONG X 25' WIDE BOTTOMLESS SANDFILTER
5. ORENCO SYSTEMS, INC. CONTROL PANEL.

TEST HOLE DATA

TH1 (6/3/04)
0"-4" A, SIL, 10YR 3/2
4"-18" Bw, CB, G, SL, 10YR 4/6
18"-120" C, ST, CB, G, BD, COS, 10YR 5/4
ESHWT: 120"
NO LEDGE AT 120"

TH2 (6/3/04)
0"-6" A, SIL, 10YR 3/4
6"-30" Bw, CB, G, SL, 10YR 4/6
30"-120" C, ST, CB, G, COS, 10YP 5/4
ESHWT: 120"
NO LEDGE AT 120"

TH1 (5/1/07)
0"-6" A, SIL, 10YR 3/2
6"-36" Bw, CB, G, SL, 10YR 4/6
36"-64" C, BD, ST, CB, G, COS, 10YR 5/3
ESHWT: 64"
LEDGE AT 64"

TH2 (5/1/07)
0"-6" A, SIL, 10YR 3/2
6"-24" Bw, CB, G, SL, 10YR 4/6
24"-96" C, BD, ST, CB, G, COS, 10YR 5/3
ESHWT: 96"
LEDGE AT 96"

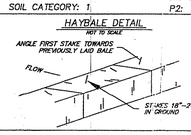
SOIL CATEGORY: 1 P1: 74" P2: 74"

LEGEND

- 100 ---- EXISTING CONTOURS
- 100 PROPOSED CONTOURS
- TEST HOLE
- LIMIT OF DISTURBANCE
- STAKED HAYBALES OR SILT FENCE & LIMIT OF DISTURBANCE

HAYBALE DETAIL

NOT TO SCALE



GENERAL NOTES

1) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
2) ALL TREES AND/OR STUMPS WITHIN 10 FEET OF PROPOSED SYSTEM TO BE CLEARED.
3) NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM EXCEPT PROPOSED WELL ON SITE.
4) NO LEACHING SYSTEM EXISTS WITHIN 100' OF THE PROPOSED WELL EXCEPT AS SHOWN.
5) ANY PRIVATE WELLS, EXISTING & PROPOSED, WITHIN 200' OF ISDS ARE SHOWN.
6) ANY PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF ISDS ARE SHOWN.
7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
8) NO DRAINS OF ANY KIND SHALL BE LOCATED WITHIN 25' OF THE PROPOSED LEACHING SYSTEM.
9) ALL SOIL AT LEAST 6"± BELOW EXISTING GRADE AT BOTTOMLESS SAND FILTER SHALL BE STRIPPED AND BACKFILLED WITH FILTER SAND.
10) THE SEPTIC TANK SHALL BE A WATERTIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURE FIBERGLASS LIDS. IF CONCRETE TANK IS USED, ABS TANK ADAPTER SHALL BE CAST IN PLACE. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED (W/CERTIFICATE) OR WATER TESTED/VACUUM TESTED ON SITE PRIOR TO ACCEPTANCE FROM THE ENGINEER.
11) THE ADVANTEX-AX TREATMENT SYSTEM CONTAINS A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED FILTER UNIT.
12) ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISABLE AND AUDIBLE ALARM POWERED BY A CIRCUIT SEPERATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE DWELLING OR SHALL BE INSTALLED AT A LOCATION TO BE DESIGNATED BY THE HOMEOWNER.
13) THE SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND SCREENING PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE SCREENED PUMP VAULT AND INLET TEE.
14) BOTTOMLESS SAND FILTER MEDIA: HOLLISTON SAND & GRAVEL ASTM-33 SAND. LESS THAN 1% PASSING THE SIEVE WITH AN EFFECTIVE SIZE OF .25mm-.45mm AND WITH A UNIFORMITY COEFFICIENT OF 2.0±.
15) IF CONTRACTOR ENCOUNTERS ANY CONDITIONS DURING CONSTRUCTION WHICH INDICATE THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, CONSTRUCTION SHALL CEASE AND DESIGNER NOTIFIED.
16) THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF AN ISDS USER, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE SYSTEM.
17) LOCAL SUPPLIER OF OSI EQUIPMENT: ATLANTIC SOLUTIONS, 2417 EAST MAIN ROAD, PORTSMOUTH, RI 02871 TEL. (401) 293-0176
18) 5 FEET FROM SAND FILTER NOT TO BE LOWER THAN ELEVATION 90.75.

DESIGN INFO:

DAILY FLOW: 230 GPD
SOIL CATEGORY: 1
APPLICATION RATE: 2.3 GPD/SF
AREA REQUIRED: 230/2.3 = 100 SF
AREA PROVIDED: 100 SF

TIMER INFO:

SET ADVANTEX TIMER TO 24 DOSES/DAY
230 GPD/24 DOSES/DAY = 9.58 GAL/DOSE
9.58/17.5 GPM = 0.55 MIN.
TOTAL PUMP RUN TIME = 13.2 MIN./DAY
TOTAL PUMP OFF TIME = 1426.8 MIN./DAY
TIME OFF PER CYCLE = 59.45 MIN.
TIME ON PER CYCLE = 0.55 MIN.

DOSING RATE:

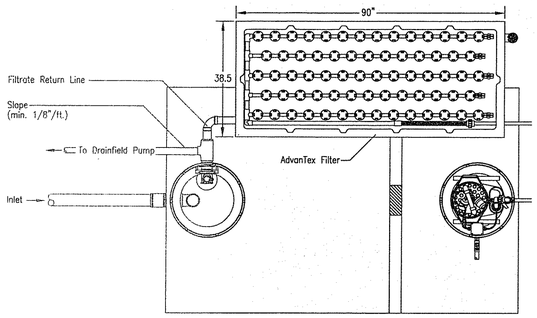
9.58 GAL/DOSE
PUMP CHAMBER CAPACITY = 23.5 GAL./FT OR 1.96 GAL./INCH
PUMP CHAMBER DEPTH @ 9.58 GAL = 4.9 INCHES = .41'
DOSE PER ORIFICE = 230 GPD/(24 DOSES/DAY)/40 ORIFICES = .24 GAL/ORIFICE/DOSE

RECIRCULATING EFFLUENT PUMP SYSTEM (REPS)

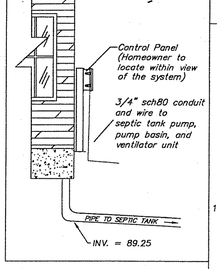
(2 COMPARTMENT 1,500 GALLON SEPTIC TANK AX 20 ADVANTEX TEXTILE FILTER)

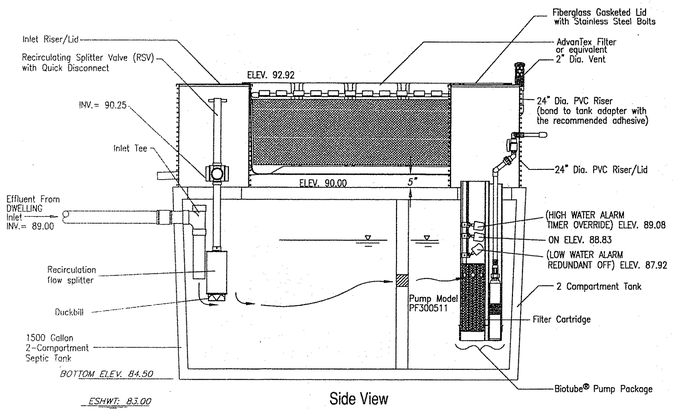
NOT TO SCALE

AdvanTex™ Treatment System
AX 20 Series - Mode 3b



Top View

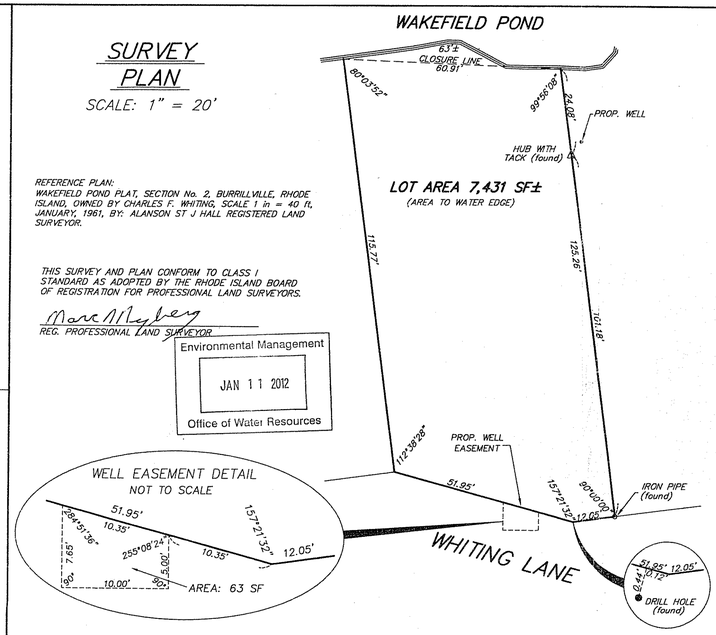




Side View

SURVEY PLAN

SCALE: 1" = 20'

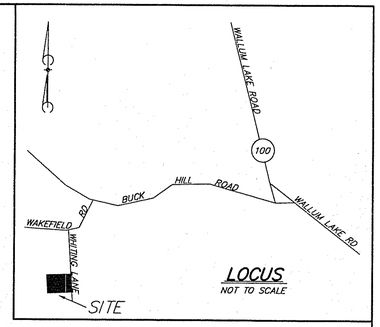


REFERENCE PLAN:
WAKEFIELD POND PLAT, SECTION No. 2, BURRILLVILLE, RHODE ISLAND, OWNED BY CHARLES F. WHITING, SCALE 1 in = 40 ft, JANUARY, 1961, BY: ALANSON ST J HALL REGISTERED LAND SURVEYOR.

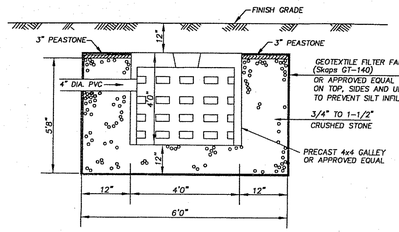
THIS SURVEY AND PLAN CONFORM TO CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

Marc Nyberg
REG. PROFESSIONAL LAND SURVEYOR

Environmental Management
JAN 11 2012
Office of Water Resources

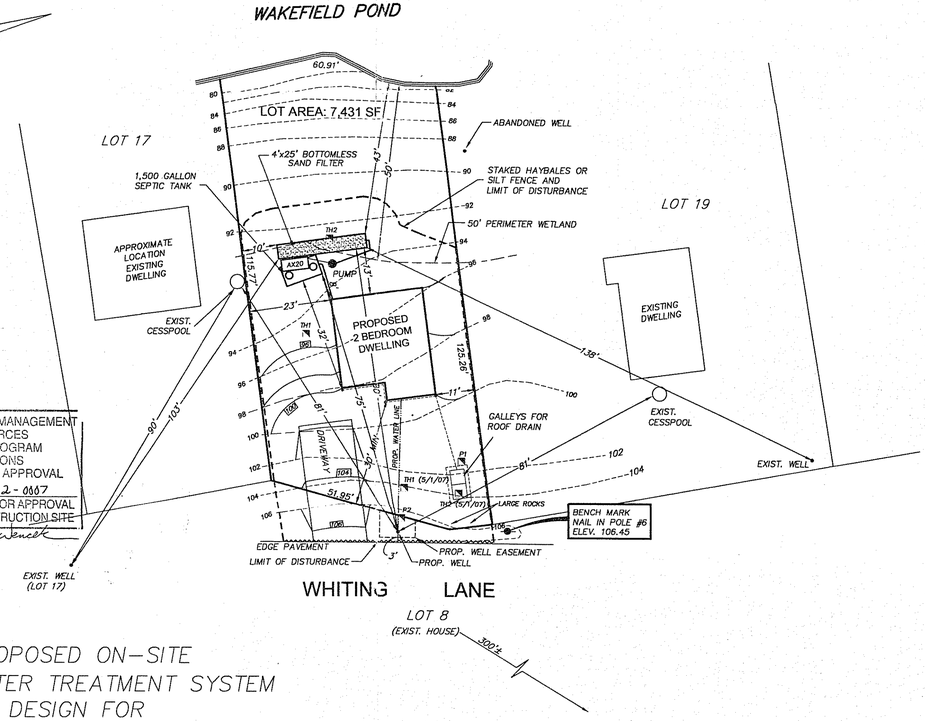


LOCUS
NOT TO SCALE



GALLEY(S) FOR ROOF DRAINS
(NOT TO SCALE)

WAKEFIELD POND



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 19 2012 FILE # 12-0607
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROPOSED ON-SITE
WASTEWATER TREATMENT SYSTEM
DESIGN FOR
PAULETTE BOUSQUET-TESSIER
WHITING LANE
BURRILLVILLE, RHODE ISLAND
ASSESSOR'S PLAT #133, LOT #18
DATE: AUGUST, 2011
SCALE: 1 INCH EQUALS 20 FEET

MARC N. NYBERG No. 1797 PROFESSIONAL LAND SURVEYOR

MARC N. NYBERG ASSOCIATES, INC.
LAND SURVEYORS and PLANNERS
501 GREAT ROAD, UNIT 104
NORTH SMITHFIELD, RHODE ISLAND 02896
TEL: (401) 762-2870 FAX: (401) 762-2871