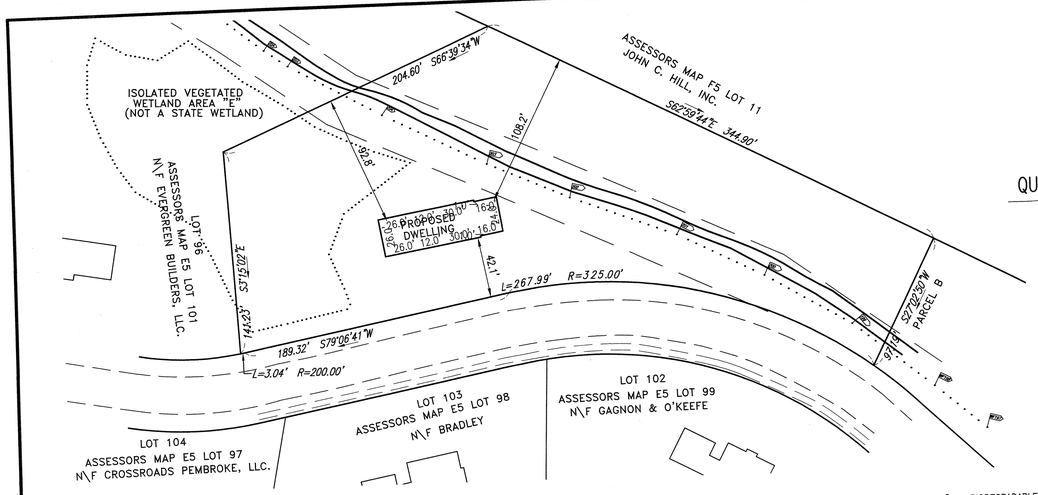
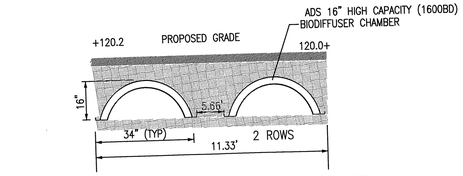
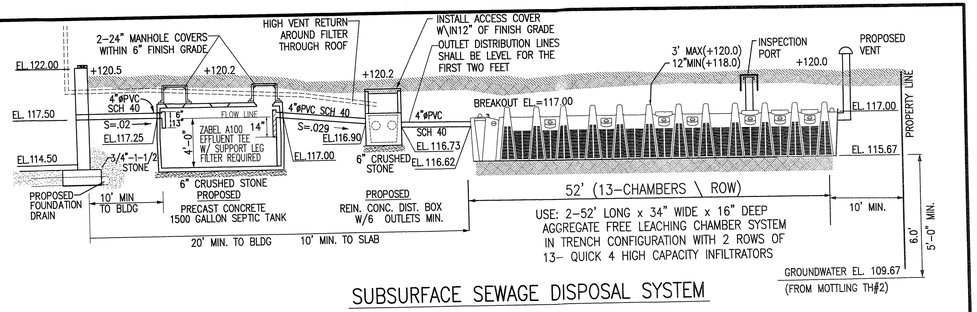




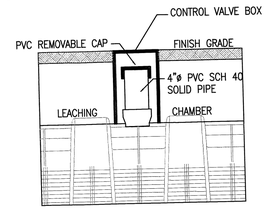
QUICK 4 HIGH CAPACITY INFILTRATOR X-SECTION

NOT TO SCALE



SUBSURFACE SEWAGE DISPOSAL SYSTEM

(NOT TO SCALE)



INSPECTION PORT DETAIL

NOT TO SCALE

SYSTEM NOTES

THIS SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION MODIFIED CERTIFICATION FOR GENERAL USE, PURSUANT TO TITLE V, 310 CMR 15.000, ISSUED AUGUST 19, 2005, MODIFIED JUNE 30, 2010.

NO STONE AROUND OR BELOW INFILTRATORS IS REQUIRED.

BACKFILL INFILTRATORS WITH ON SITE SAND SOIL OR CLEAN COARSE SAND IN ACCORDANCE WITH 310 CMR 15.255(3).

DO NOT BACKFILL WITH ANY STONES 3" OR LARGER AGAINST INFILTRATOR.

CONTRACTOR MUST BE CERTIFIED BY INFILTRATOR SYSTEM, INC.
CONTACT JIM HEALY (866)511-6066 OR JHEALY@INFILTRATORSYSTEMS.NET

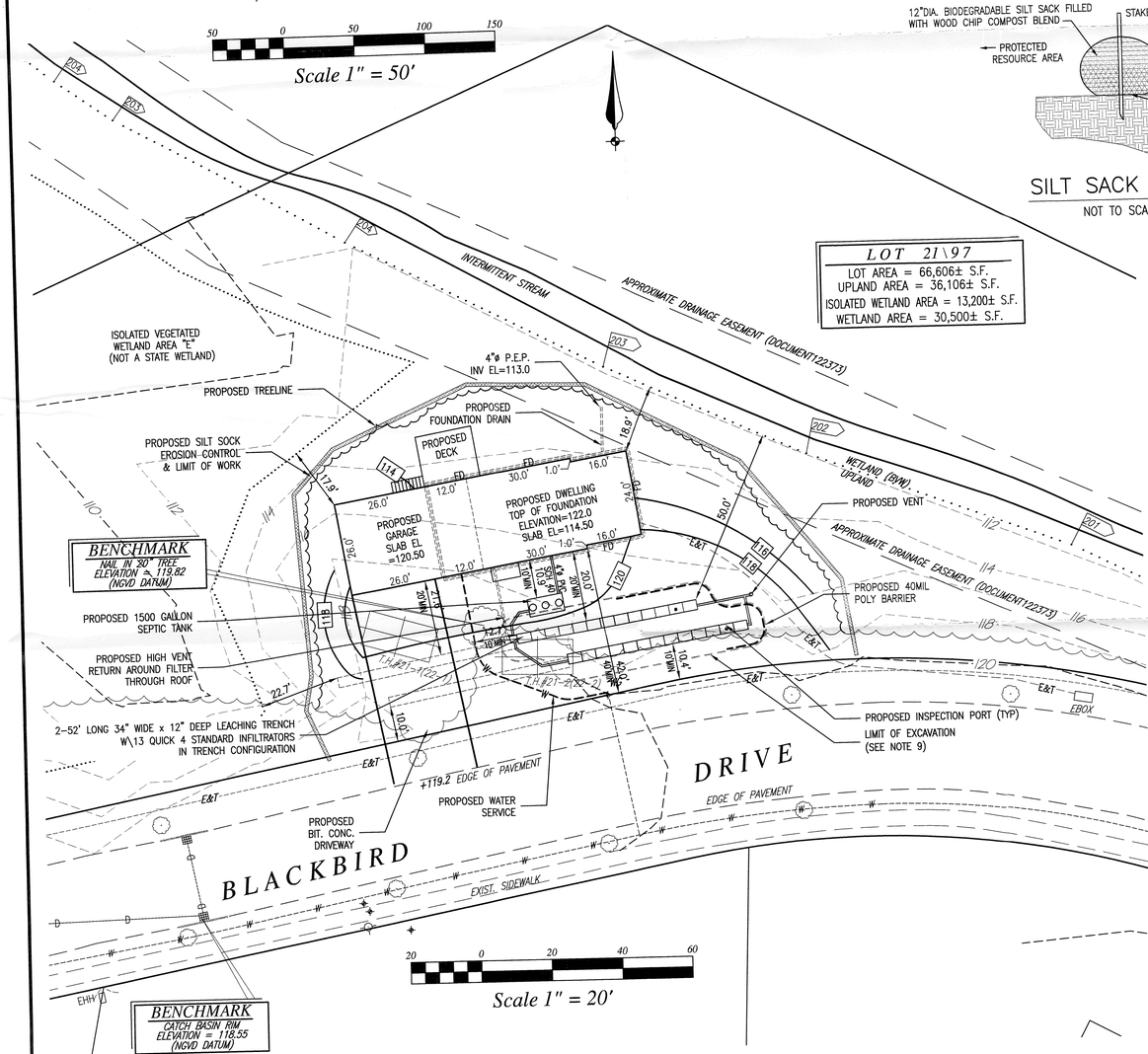
SEPTIC DESIGN

(NOT DESIGNED FOR GARBAGE GRINDER)

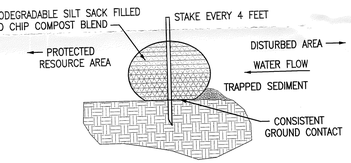
1. DESIGN DAILY FLOW: 4 BR. x 150 GPD = 600 GPD
2. SEPTIC TANK: 600 GPD x 2 = 1200 GAL. USE: 1500 GAL (MIN)
3. INFILTRATOR CHAMBERS: P.R. <2 MIN/IN CLASS I

USE: 2-52' LONG x 34" WIDE x 16" DEEP LEACHING SYSTEM IN TRENCH CONFIGURATION WITH 26 - 4' LONG QUICK 4 HIGH CAPACITY INFILTRATOR CHAMBERS

TITLE V
(PER MODIFIED CERTIFICATION FOR GENERAL USE DESIGN STANDARD ITEM 7.)
EFFECTIVE LEACHING AREA = 7.93 SF/LF
PROPOSED AREA: 104 LF x 7.93 SF\LF = 824 S.F.
CAPACITY: 824 S.F. x 0.74 GPD/S.F. = 610 > 600 GPD(D.D.F.)



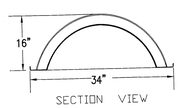
LOT 21\97
LOT AREA = 66,606± S.F.
UPLAND AREA = 36,106± S.F.
ISOLATED WETLAND AREA = 13,200± S.F.
WETLAND AREA = 30,500± S.F.

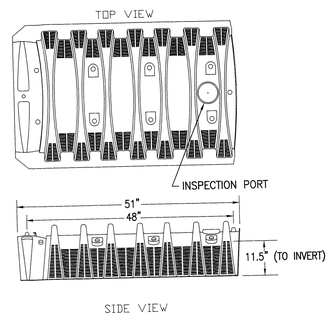


SILT SACK DETAIL

NOT TO SCALE

EFFECTIVE LEACHING AREA (SF/LF)
7.93
(TRENCH CONFIGURATION)





QUICK 4 HIGH CAPACITY INFILTRATOR CHAMBER DETAIL

NOT TO SCALE

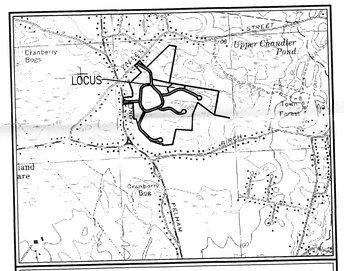
SEPTIC NOTES

1. PROPERTYLINE DATA FROM DEFINITIVE SUBDIVISION PLAN BY LAND PLANNING INC & HENRY T. NOVER, P.E. ENDORSED BY THE TOWN OF PEMBROKE PLANNING BOARD SEPTEMBER 27, 2004, LATEST REVISION 4/16/04. AND PLAN OF LAND BY LAND PLANNING INC. LATEST REVISION JULY 29, 2004, LAND COURT CASE #32145.
2. TOPOGRAPHIC SURVEY FROM PLAN BY LAND PLANNING, INC LATEST REVISION DATE 4/16/04 ADDITIONAL TOPOGRAPHIC SURVEY BY GRADY CONSULTING, L.L.C. JUNE 2011.
3. SOILS TESTING BY HENRY T. NOVER WITNESSED BY HEALTH AGENT FRED LEARY 4/7/04.
4. CALL DIG SAFE 1-888-344-7233 AT LEAST 4 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. NOTIFY TOWN AND GRADY CONSULTING PRIOR TO BACKFILLING OF SYSTEM.
6. NO KNOWN WELLS EXIST WITHIN 200 FEET OF THE PROPOSED SYSTEM.
7. NO KNOWN STREAMS, SURFACE AND SUBSURFACE DRAINS OR WETLANDS EXIST WITHIN 100 FT OF THE PROPOSED SYSTEM (OTHER THAN THOSE SHOWN).
8. THE SITE IS NOT LOCATED WITHIN THE FLOOD PLAIN AND AQUIFER PROTECTION DISTRICT.
9. EXCAVATE ALL MATERIAL (A, B LAYER) TO COARSE SAND C1 LAYER (22"±), 5' AROUND SYSTEM. REPLACE WITH CLEAN COARSE SAND IN ACCORDANCE WTH 310 CMR 15.255(3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT.

APPROXIMATE PERC SAND VOLUME = 62 x 21.3 x (117.0 - 116.4) / 27 + 20% = 35± C.Y.

ADDITIONAL NOTES

1. THE SITE IS NOT LOCATED IN A ZONE II NITROGEN SENSITIVE AREA.
2. NO STUMPS SHALL BE BURIED ON THE SITE.
3. OTHER THAN THOSE SHOWN NO KNOWN EASEMENTS EXIST ON THE PROPERTY.



LOCATION MAP 1" = 2000'

REQUIRED INSPECTIONS

1. AFTER EXCAVATION OF LEACHING AREA PRIOR TO INSTALLING SAND.
2. AFTER SYSTEM CONSTRUCTION PRIOR TO BACKFILLING.
3. AFTER FINAL GRADING IS COMPLETED.

(ADDITIONAL INSPECTIONS MAY BE REQUIRED BY THE BOARD OF HEALTH)

ZONING DATA

DISTRICT: RESIDENCE A

MINIMUM REQUIREMENTS:

LOT AREA	40,000 SF
LOT FRONTAGE	150 FT
FRONT YARD	40 FT
SIDE YARD	20 FT
REAR YARD	25 FT

SOIL LOGS

T.H. 21-1 (22-1) EL. 118.50

0"-4" O,A,E LOAMY SAND	118.17
4"-18" B SANDY LOAM	117.00
18"-132" C1 COARSE SAND	PERC @ 27"-45" P.R.<2 MIN/IN
	107.50
D=11'-0" NO WATER	

T.H. 21-2 (22-2) EL. 118.25

0"-6" O,A,E LOAMY SAND	117.75
6"-22" B SANDY LOAM	116.41
22"-136" C1 COARSE SAND	PERC @ 24"-42" P.R.<2 MIN/IN
	106.91
D=11'-4" MOTTLING @ 7'-3" (EL.=109.67)	

LOCAL VARIANCE REQUEST

15.211 MINIMUM SETBACK DISTANCES - REDUCTION IN THE LEACHING FIELD TO BORDERING VEGETATED WETLAND FROM 75' TO 50'

APPROVED BOARD OF HEALTH

PEMBROKE BOARD OF HEALTH COPY

SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

#18 BLACKBIRD DRIVE
ASSESSORS LOT E5-100
PEMBROKE, MASSACHUSETTS

APPLICANT
SEALUND CORPORATION
794 WASHINGTON STREET
PEMBROKE, MA 02359

AUGUST 15, 2011
SCALE: 1" = 20'
JOB NO. 11-140

COMMONWEALTH OF MASSACHUSETTS KEVIN S. GRADY CIVIL No. 46264 REGISTERED PROFESSIONAL ENGINEER

GRADY CONSULTING, L.L.C.
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378

RECEIVED AUG 18 2011 PEMBROKE BOARD OF HEALTH

SHEET 1 OF 1

WETLANDS RESOURCE AREA DELINEATION FROM DEFINITIVE SUBDIVISION PLAN BY LAND PLANNING INC & HENRY T. NOVER, P.E. ENDORSED BY THE TOWN OF PEMBROKE PLANNING BOARD SEPTEMBER 27, 2004, LATEST REVISION 4/16/04. AND APPROVED PER FILE # SE 56-756