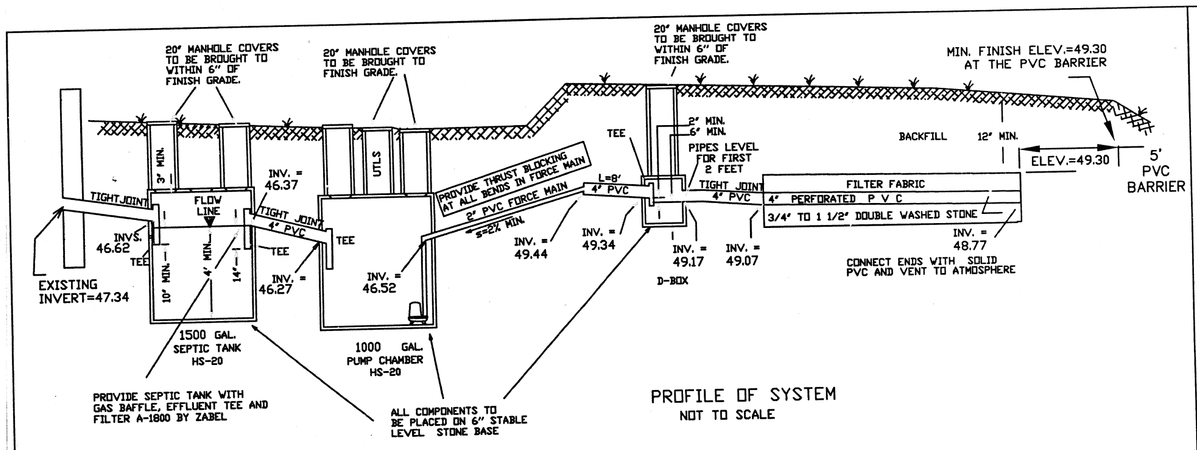
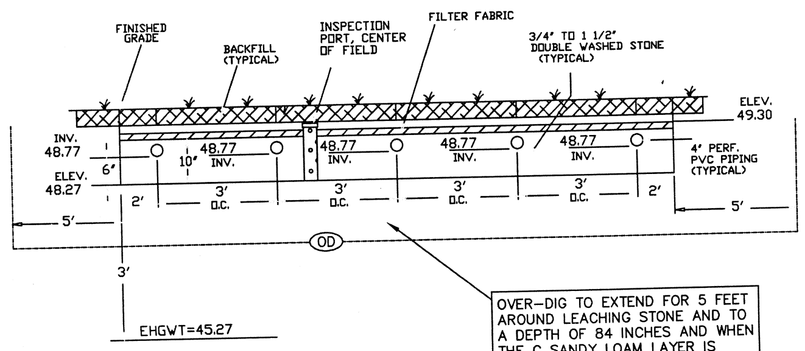


PROFILE OF SYSTEM
NOT TO SCALE



END SECTION THROUGH LEACH FIELD
NOT TO SCALE

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF SEEKONK BOARD OF HEALTH RULES AND REGULATIONS AND TITLE 5, THE STATE ENVIRONMENTAL CODE.
2. THIS PLAN IS TO BE USED FOR THE CONSTRUCTION OF THE DESIGN DISPOSAL SYSTEM. THIS PLAN DOES NOT REPRESENT ACTUAL AS BUILT CONDITIONS UNLESS OTHERWISE NOTED.
3. THE PROPOSED SYSTEM SHOWN HEREON IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL AND SAID USE IS NOT ALLOWED.
4. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY ONE TO TWO YEARS DEPENDING ON USE.
5. ALL BASE AGGREGATE FOR LEACHING STRUCTURES SHALL CONSIST OF 3/4" TO 1 1/2"DOUBLE WASHED STONE FREE OF IRON, FINES, AND DUST IN PLACE.
6. TIGHT JOINT PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (PVC) SCHEDULE 40, UNLESS OTHERWISE NOTED.
7. NO PERMANENT STRUCTURE MAY BE CONSTRUCTED OVER THE SEPTIC SYSTEM AREA.
8. BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION CALL "DIG SAFE" AT 1-888-344-7233 TO NOTIFY MEMBER UTILITIES.
9. THE GRADE ABOVE AND ADJACENT TO THE LEACHING FACILITY SHALL BE SLOPED TO PREVENT THE ACCUMULATION OF SURFACE DRAINAGE (2% MINIMUM SLOPE).
10. THE OVER-DIG AREA, (OD) IF SHOWN HEREON IS TO BE STRIPPED OF ALL TREES, BRUSH, STUMPS, TOPSOIL, PEAT, OR OTHER IMPERVIOUS MATERIALS. THE (OD) AREA EXTENDS 5 FEET HORIZONTALLY AROUND THE PROPOSED SYSTEM AND TO THE DEPTH SPECIFIED. THE REPLACEMENT MATERIAL SHALL MEET SPECIFICATIONS OF 310 CMR 15.255 OF THE STATE ENVIRONMENTAL CODE.
11. ANY SOILS, STONE OR SEPTIC COMPONENTS ASSOCIATED WITH EXISTING FAILED LEACHING FACILITIES SHALL BE REMOVED AND REPLACED WITH MATERIAL MEETING SPECIFICATIONS OF 310 CMR 15.255 OFTHE STATE ENVIRONMENTAL CODE.
12. THERE SHALL BE NO BACK FILLING PRIOR TO ENGINEERING AND BOARD OF HEALTH INSPECTION AND APPROVAL.
13. INSPECTION PORT TO BE 4"øPERFORATED WITH SCREW TYPE CAP INSTALLED TO WITHIN 3"OF FINAL GRADE.
14. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED
15. THE FINISHED GRADE OVER SEPTIC SYSTEM SHALL BE GRADED, LOAMED, AND SEEDED.

VARIANCE REQUESTS:

1) 310 CMR 15.405 (1)(i) CONTENTS OF LOCAL UPGRADE APPROVAL
A SIEVE ANALYSIS MAY BE PERFORMED IN ACCORDANCE WITH DEPARTMENT GUIDANCE IF A PERCOLATION TEST IN ACCORDANCE WITH 310 CMR 15.104 AN
D 15.105 CAN NOT BE PERFORMED AS DETERMINED BY THE LOCAL APPROVING AUTHORITY.

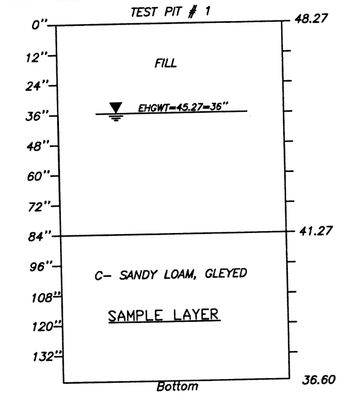
WE ARE REQUESTING A VARIANCE TO ALLOW FOR A SIEVE ANALYSIS TO BE USED TO ESTABLISH A DESIGN PERCOLATION RATE IN PLACE OF A FIELD PERCOLATION TEST.

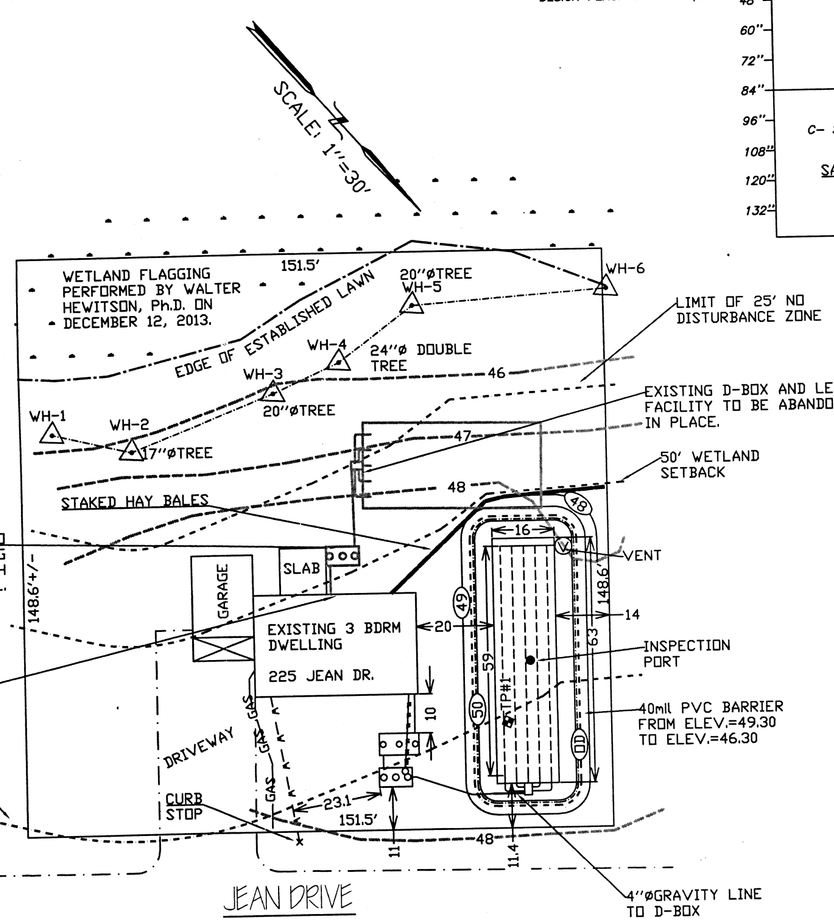
2) 310 CMR 15.404 (2) (b) " A MINIMUM OF FOUR FEET OF SEPARATION BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION SHALL BE PROVIDED, USING FILL IF NECESSARY, THE LOCAL APPROVING AUTHORITY MAY ALLOW A THREE FOOT SEPARATION ONLY IN FULL COMPLIANCE WITH 310 CMR 15.405 (1) (i)"

WE ARE REQUESTING A VARIANCE TO REDUCE THE MINIMUM GROUNDWATER SEPARATION OF 4 FEET TO 3 FEET AS PER 310 CMR 15.404, APPROVALS FOR UPGRADES TO MAXIMUM FEASIBLE COMPLIANCE.

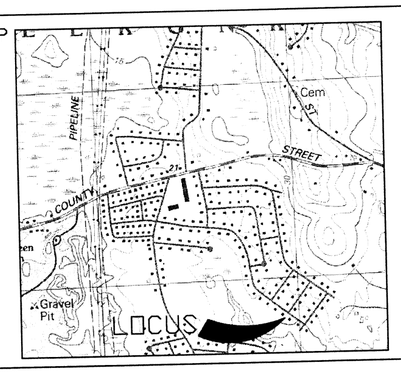
TEST PIT LOG
NOT TO SCALE

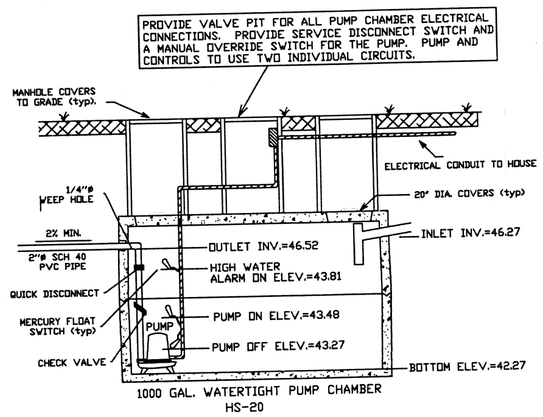
Date Excavated: 12/12/13
Logged by: DEAN MONSEES
Observed by: BETH HALLAL
Board of Health: SEEKONK
Geologic Material:TILL
Landform: DRUMLIN
DESIGN PERC. RATE: 30mpi





LOCUS MAP



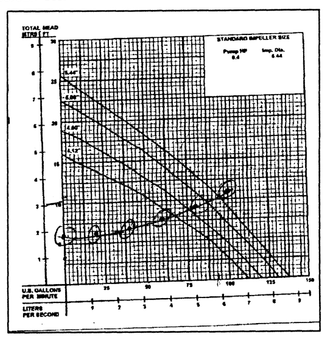


NOT TO SCALE

CROSS SECTION OF PUMP CHAMBER

SUBMERSIBLE SEWAGE PUMP & PUMP CHAMBER

SPECIFICATIONS:
FURNISH AND INSTALL ONE PUMP STATION ITEM NO. PC1000P5W-1000 GALLON PC SIMPLEX SYSTEM WITH SE411 BARNES PUMP (NO CONTROLLER) FROM J&R PRE CAST (508)822-3311 OR EQUAL.



THE BUILDING SEWER OUTLET(S) SHOWN ON THIS PLAN IS (ARE) BASED ON BEST AVAILABLE INFORMATION AT THE TIME OF PLAN DESIGN AND ADDITIONAL OUTLETS LATER REVEALED BECOME THE RESPONSIBILITY OF THE OWNER(S). THE CONTRACTOR CERTIFIES, BY VIRTUE OF INSTALLING THIS SEPTIC SYSTEM, THAT ALL SEPTIC WASTE WATER FLOW IS PLUMBED TO THE SEPTIC TANK.

DESIGN CALCULATIONS

FLOW: SIZE FOR 3 BEDROOMS
(3bdrm)X(110gpd/bdrm) = 330 gpd 660 PEAK

SEPTIC TANK: HS-20
NEW 1500 GAL TANK > 660

LEACHING FIELD:
RATE = (1/.33) sf/gpd FOR PERC = 30mpi CLASS II
MINIMUM SIZE: (330gpd)X(1/.33)sf/gpd) = 1000 sf
USE LEACHING FIELD 16'x63'=1008sf

PUMP CHAMBER: HS-20
CHAMBER CAPACITY: 1000 GAL
USE A 48 GAL DOSE +2 GAL
BACK FLOW=50 GAL TOTAL DOSE
DEPTH OF DOSE: 0.21'
RESERVE VOLUME REQUIRED=330GAL
DEPTH OF RESERVE VOLUME REQUIRED=1.38'

LEGEND

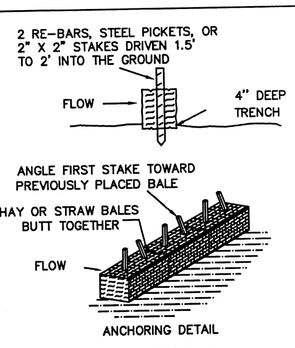
DEEP OBSERVATION HOLE ■ TP#1	PROPOSED CONTOUR (47)
SEPTIC TANK	PROPOSED SPOT GRADE (47.30)
PUMP CHAMBER	EXISTING SPOT GRADE 47x38
EDGE OF LAWN	WATER LINE —W—W—W—W—W—
	HAY BALES
	UTILITY LINE

REVISIONS

DATE	DESCRIPTION

EROSION & SEDIMENTATION CONTROL

1.) ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
2.) HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
3.) NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
4.) ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
5.) APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFF SITE FROM CONSTRUCTION EQUIPMENT.
6.) ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ENGINEER AND THE SEEKONK CONSERVATION COMMISSION.



ANCHORING DETAIL

STAKED HAY BALES
(NOT TO SCALE)

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT AND THE WATER SERVICE CURB STOP TO LOT#378 IS SHOWN CORRECTLY. THE WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.

CONSTRUCTION NOTE:

1) OSD systems associates, Inc. TO BE NOTIFIED BY THE INSTALLING CONTRACTOR AT THE START OF CONSTRUCTION AND TO BE GIVEN 24 HOUR NOTICE FOR AS-BUILT.
2) GARBAGE DISPOSAL, IF PRESENT, IS TO BE REMOVED AS PART OF THIS SEPTIC SYSTEM REPAIR. SEE GENERAL NOTE #3.
3) INSTALLING CONTRACTOR IS TO CERTIFY THAT ALL WASTE WATER DISCHARGE FROM THE BUILDING IS PLUMBED TO THE SEPTIC TANK.
4) THE SUMP PUMP DISCHARGE AND FURNACE CONDENSATE DISCHARGE IS TO BE REDIRECTED AWAY FROM THE BUILDING SEWER.

NOTE: THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.

SEWAGE DISPOSAL SYSTEM REPAIR PLAN

LOT NUMBER: 378 AREA OF LOT: 22,510sf+/- PLAT NO.: 6
LOT ADDRESS: 225 JEAN DRIVE
IN
SEEKONK, MA 02771

PREPARED FOR:
JOSEPH FARIA
225 JEAN DRIVE
SEEKONK, MA 02771

SCALE: AS SHOWN
DATE: 12/28/13

DESIGNED BY: DRM
JOB NO: 13-146
FILE: 225JEAN.dwg

REGISTERED PROFESSIONAL ENGINEER
DEC 2013

OSD systems associates, Inc.
45 ASTRAL AVENUE
RIVERSIDE, R.I. 02915
(401) 465-6324
osdea@aol.com
OSD