

ENVIROSEPTIC WASTEWATER TREATMENT SYSTEM NOTES:

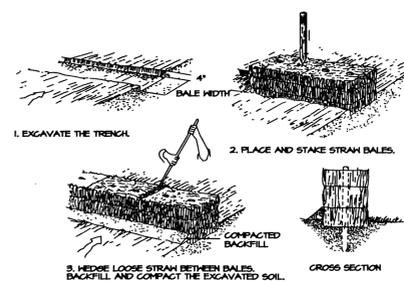
- SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST VENDOR CONTACT PRESBY ENVIRONMENTAL, INC. 143 AIRPORT ROAD, WHITEFIELD, NH 03548, PHONE 1-800-473-5298 WWW.PRESBYENVIRONMENTAL.COM
- MINIMUM OF 6" OF MEDIUM TO COARSE "SYSTEM SAND", WITH LESS THAN 2% PASSING A # 200 SIEVE, REQUIRED AROUND CIRCUMFERENCE OF ENVIRO-SEPTIC PIPES. **SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS. CONTRACTOR MUST PROVIDE DOCUMENTATION THAT THE PROPOSED "SYSTEM SAND" MEETS THE SPECIFICATIONS. ADDITIONAL TESTING MADE BE REQUIRED ON MATERIAL DELIVERED TO THE SITE.**
- DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
- NO DRAINS, HOT TUBS, SAUNAS, GARBAGE DISPOSALS ETC. SHALL BE INCORPORATED INTO THIS SYSTEM UNLESS OTHERWISE SPECIFIED.
- THIS DOCUMENT IS FOR THE CONSTRUCTION OF THE EFFLUENT DISPOSAL SYSTEM SHOWN. ANYONE USING INFORMATION FROM THIS DOCUMENT FOR ANY OTHER PURPOSE DOES SO AT THEIR OWN RISK.
- ROOF VENT MAY BE USED AS THE HIGH VENT PROVIDED THERE ARE NO RESTRICTIONS BETWEEN LOW VENT AND THE ROOF VENT. IF ANY RESTRICTIONS (I.E. PUMP CHAMBER) ARE LOCATED BETWEEN THE LOW VENT AND ROOF VENT, A SEPARATE HIGH VENT CONNECTED TO AN UNUSED DISTRIBUTION BOX OUTLET SHALL BE PROVIDED. THE HIGH VENT CONNECTING PIPE SHALL BE INSTALLED WITH A HIGH POINT OUTSIDE OF THE DISTRIBUTION BOX. THE INVERT OF THE HIGH POINT SHALL BE 2" MIN. OVER THE TOP OF THE DISTRIBUTION BOX. THE LOWEST POINT BEYOND THE HIGH POINT SHALL HAVE SEVERAL 1/4" HOLES AND WASHED STONE TO PROVIDE DRAINAGE FOR CONDENSATION. THE HIGH VENT OPENING MUST BE AT LEAST 10 FEET HIGHER THAN THE OPENING FOR THE LOW VENT. **REFER TO VENTING REQUIREMENTS OF DESIGN MANUAL.**
- THE LOW VENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH 310 CMR 15.241. THE VENT OPENING SHALL BE AT LEAST 3.0' ABOVE FINISHED GRADE.

PUMPING NOTES:

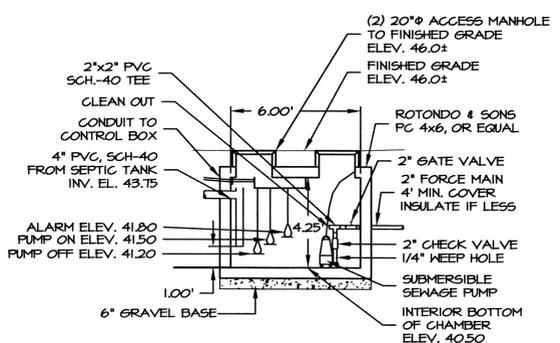
- EQUIPMENT FROM OTHER MANUFACTURERS MAY BE USED IF EQUAL APPROVAL FOR ALTERNATE EQUIPMENT REQUIRED FROM ENGINEER PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
- CONTROL PANEL AND ALARM TO BE MOUNTED INSIDE BUILDING IN A CONSPICUOUS LOCATION.
- JUNCTION BOX IN PUMP CHAMBER TO HAVE SHUT-OFF SWITCH.

PUMPING SYSTEM SPECIFICATIONS:

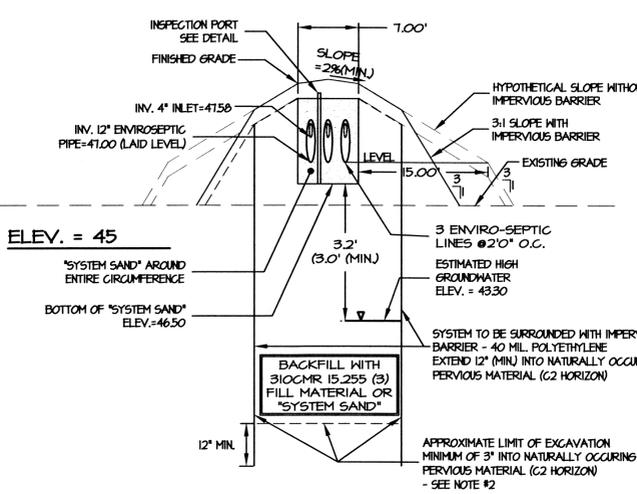
PUMP MODEL - MYERS SRM4
HORSEPOWER - 4/10
SOLIDS HANDLING CAPACITY - 2 INCH DISCHARGE, 2" NPT
ELECTRICAL - 115 VOLTS, 12 AMPS
CONTROL PANEL MODEL - MYERS CEI5H
ENCLOSURE - NEMA 1
VOLTAGE - 115
HIGH LEVEL ALARM - VISUAL AND AUDIO
FLOATS MODEL - MYERS MODEL MF52
PUMP CHAMBER - SCITUATE PRECAST 4x6 PUMP CHAMBER
H-20-44 LOADING



DETAIL - HAY BALE DEWATERING ENCLOSURE



PUMP CHAMBER DETAIL



ENVIROSEPTIC WASTEWATER TREATMENT SYSTEM SECTION

HORIZONTAL 1"=10'
VERTICAL 1"=2'

LEGEND

- 100' 100' EXISTING CONTOUR
- 100' 100' PROPOSED CONTOUR
- MA. STD. MASSACHUSETTS STANDARD
- INVERT OF PIPE
- P.V.C. POLYVINYL CHLORIDE PIPE
- S.D.R. STANDARD DIMENSION RATIO
- R.C.P. REINFORCED CONCRETE PIPE
- CONC. CONCRETE (BIT. OR P.C.)
- BITUMINOUS BITUMINOUS
- P.C. PORTLAND CEMENT
- TYPICAL
- F.S. 100'x100' FINISHED SPOT GRADE
- 100'x100' EXISTING SPOT GRADE
- T.C. TOP OF CURB
- B.C. BOTTOM OF CURB
- P.C. PROPERTY LINE
- ST CHAIN LINK FENCE
- DE SEPTIC TANK
- DB DISTRIBUTION BOX
- DOH DEEP OBSERVATION HOLE

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLOT 15, LOT 122 AND THAT IT IS SHOWN AS DEPICTED ON THEIR RECORDS. THE LOCATION OF THE EXISTING WATER SERVICE ON THE OWNERS SIDE HAS BEEN APPROXIMATED FROM THE SEEKONK WATER DISTRICT RECORDS. AS INDICATED BY THESE RECORDS, THE DIMENSION BETWEEN THE WATER SERVICE AND THE SEWAGE SYSTEM COMPONENTS COMPLIES WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.

LOCAL UPGRADE APPROVALS REQUIRED:
310 CMR 15.404(2B)
REDUCTION OF THE FIVE FOOT MINIMUM DEPTH TO GROUNDWATER THREE FOOT SEPARATION PROVIDED (2' REDUCTION WITH ENVIRO-SEPTIC TREATMENT SYSTEM)
310 CMR 15.404(1B)
REDUCTION OF SYSTEM LOCATION SETBACKS FROM CELLAR WALL CELLAR WALL - 17' PROVIDED (3' REDUCTION)

NOTES:

- ALL WORK SHALL CONFORM TO THE 310 CMR 15.00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH.
- THE CONTRACTOR SHALL HAVE THE EXISTING SEPTIC TANK PUMPED OUT AND SHALL INSPECT THE TANK TO CONFIRM IT IS WATERIGHT, LEVEL AND SOUND PRIOR TO INSTALLATION OF OTHER SYSTEM COMPONENTS. IF THE CONDITION OF THE EXISTING TANK IS UNACCEPTABLE, IT SHALL BE REMOVED AND REPLACED WITH A NEW 1500 GALLON SEPTIC TANK WITH H-20 LOADING AND APPROVED EFFLUENT FILTER. PROVIDE MINIMUM 2% SLOPE FROM EXISTING BUILDING SEWER AT FOUNDATION TO NEW TANK.
- STRIP ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET BEYOND THE EDGE OF THE "SYSTEM SAND" HORIZONTALLY IN ALL DIRECTIONS, WHERE POSSIBLE. AT A MINIMUM THE INSTALLER IS TO STRIP NATURAL 3" VENTILATION INTO THE NATURALLY OCCURRING PERVIOUS MATERIAL. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 CMR 15.255 FILL. "SYSTEM SAND" MAY BE USED IN LIEU OF 310 CMR 15.255 FILL WITHIN THE REQUIRED LIMITS.
- THE CONTRACTOR IS TO REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION. **VERTICAL LIMITS MAY BE VARIABLE.**
- ALL PIPE TO BE 4" P.V.C. SCHEDULE 40, UNLESS OTHERWISE NOTED.
- PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK (IF REPLACED), PUMP CHAMBER AND DISTRIBUTION BOX.
- DISTRIBUTION BOX INLET TO BE FITTED WITH VERTICAL TEE.
- SOIL TESTING FOR THIS PROJECT WAS PERFORMED BY CAPUTO AND WICK LTD. AND WITNESSED BY THE SEEKONK BOARD OF HEALTH AGENT, BETH HALLAL. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. BEFORE PROCEEDING WITH CONSTRUCTION.
- GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
- IF REPLACED, INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
- IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
- BREAKOUT ELEVATION = 46.80. NO FINISHED GRADE BELOW 46.80 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE "SYSTEM SAND" UNLESS A IMPERVIOUS BARRIER IS INSTALLED 5' FROM THE EDGE OF THE "SYSTEM SAND". SEE SYSTEM PROFILE AND CROSS SECTION WHICH DEPICTS THE LIMITS OF THE 40 MIL. IMPERVIOUS BARRIER.
- CONTRACTOR SHALL CONTACT "DIG-SAFE" PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM EXISTING INFORMATION, BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
- MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM ENGINEER AND THE TOWN PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY THE CONTRACTOR.
- THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISING THE ACTUAL CONSTRUCTION WORK. AFTER EXCAVATING AND PRIOR TO INSTALLING ANY IMPORTED MATERIAL, CONTACT THE BOARD OF HEALTH AGENT FOR A BOTTOM OF EXCAVATION INSPECTION. AFTER SYSTEM COMPONENTS ARE IN PLACE AND PRIOR TO BACKFILLING, CONTACT THE DESIGNER TO VERIFY THE LOCATION AND ELEVATION OF SYSTEM COMPONENTS AND PREPARE A RECORD DRAWING AS REQUIRED BY THE BOARD OF HEALTH.
- THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY, FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS. REFER TO 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND OPERATION OF THE SYSTEM. THE INSTALLER AND OWNER SHOULD REVIEW AND APPLY 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
- THE INSTALLER AND THE OWNER ARE TO COMPLY WITH THE CERTIFICATION FOR REMEDIAL USE OF THE PRESBY ENVIRO-SEPTIC LEACHFIELD SYSTEM ISSUED FEBRUARY 15, 2008.
- SYSTEM TO BE CONSTRUCTED BY AN INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH AND TRAINED BY PRESBY ENVIRONMENTAL, INC. ON THE INSTALLATION OF THE PROPOSED "ENVIRO-SEPTIC" WASTEWATER TREATMENT SYSTEM.
- INSTALLER MUST INSTALL THE SOIL ABSORPTION SYSTEM IN STRICT ACCORDANCE WITH PRESBY ENVIRONMENTAL, INC.'S "ENVIRO-SEPTIC" WASTEWATER TREATMENT SYSTEM MANUAL FOR MASSACHUSETTS.
- FILL MEETING THE REQUIREMENTS OF 310 CMR 15.255(3) MUST BE PLACED ON SCARIFIED, RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED AND ALL WORK SHALL BE PERFORMED UNDER DRY CONDITIONS PER 310 CMR 15.255(6). THE DISCHARGE WATER MUST BE PROPERLY DISPOSED OF AND SHALL NOT BE A SOURCE OF POLLUTION AND/OR EROSION.
- INSTALL MAGNETIC TAPE OVER ALL PIPE AND SYSTEM COMPONENTS.
- ALL DISTURBED AREAS NOT DEPICTED TO HAVE OTHER FINAL SURFACE TREATMENT SHALL RECEIVE 4" LOAM AND SEED.

DESIGN DATA:

DAILY SEWAGE FLOW
EXISTING BEDROOMS = THREE
DAILY FLOW = 110 GAL./DAY/BEDROOM x 3 BEDROOMS = 330 GALLONS PER DAY
SEPTIC TANK REQUIREMENTS
VOLUME = 2 x DAILY FLOW = 660 GALLONS
EXISTING SEPTIC TANK 1,000 GALLONS - SEE NOTE 21

LOADING:
PERCOLATION RATE, ASSUMED @ 2 MPH - SOIL TEXTURE CLASS 1
ENVIRO-SEPTIC PIPE REQUIRED: 330 GPD (3 BEDROOMS) - 150 LINEAR FEET
ENVIRO-SEPTIC PIPE PROVIDED: 3 LINES AT 55 L.F. PER LINE - 165 LINEAR FEET
SAND BED DIMENSIONS:
MINIMUM AREA = 60% AGGREGATE BED SIZE
AGGREGATE BED SIZE = 330 GPD / 0.66 GPD/5F/DAY = 500 S.F.
MINIMUM SAND BED AREA = 500' x 60% = 300' S.F.
MINIMUM SIZE = 400 S.F.
PROPOSED SAND BED SIZE = 58' x 7' = 406 S.F. > 400 S.F.
NO PRODUCT SUBSTITUTIONS PERMITTED WITHOUT PRIOR APPROVAL OF DESIGNER.

DEEP OBSERVATION HOLE CW-1 ORIGINAL GRADE - 45.30

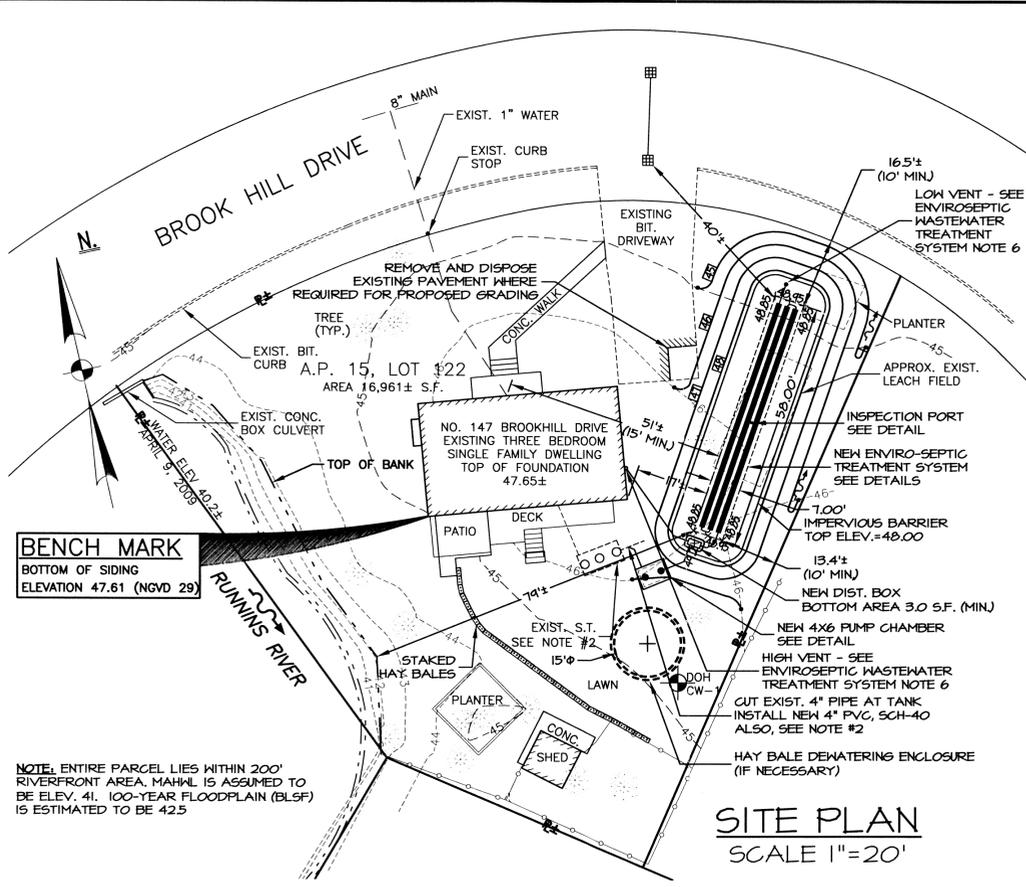
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0 - 24"	FILL	LOAMY SAND	10 YR 3/2	24" - MANY, CRS., DIST.	MASSIVE FRIABLE
24" - 30"	C1	ORGANIC	10 YR 3/2	-	SOME ORGANIC MATERIAL
30" - 36"	C2	SANDY LOAM	2.5 Y 5/2	-	LOOSE, SINGLE GRAIN
36" - 50"	C1	SANDY LOAM	2.5 Y 5/2	-	-
50" - 105"	C2	MED-CRS SAND	2.5 Y 3/3	-	-

OBSERVED GROUNDWATER - 44" (ELEV. 41.63)
OBSERVED GROUNDWATER IN MONITORING PIPE 4/15/04 - ELEV. 42.73
ESTIMATED HIGH GROUNDWATER - 24" - ELEV. 43.30
PERC. RATE @ 60" - NET - PARTICLE SIZE ANALYSIS
PERFORMED - 1.9% GRAVEL, 91.6% SAND, 0.4% SILT, 0.1% CLAY
WEEPING GROUNDWATER - 34" (ELEV. 42.05)
DATE OF TEST - 4/2/2009
WITNESS: BETH HALLAL
TESTING PERFORMED BY: CAPUTO AND WICK LTD.

TEST PIT NO. 1*

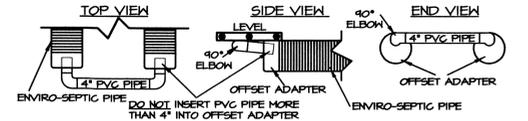
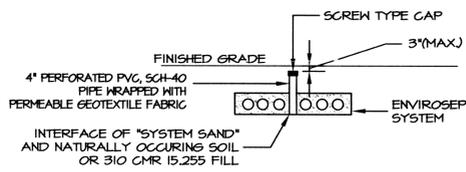
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-60"	FILL	LOAMY SAND	10 YR 4/3	-	-
60"-72"	C1	SAND	10 YR 8/7	-	-
72"-46"	C2	SAND	10 YR 8/7	-	-

ESTIMATED HIGH GROUNDWATER - 4.5 FT. WITH 25% BOLD (SHENVERT) SEEKONK HEALTH AGENT
TESTING PERFORMED BY: MANUEL G. MELLO
* FROM PLAN BY A. G. STANZIONE, P. E. - 9/25/2005 - TEST PIT LOCATION NOT SHOWN ON PLAN



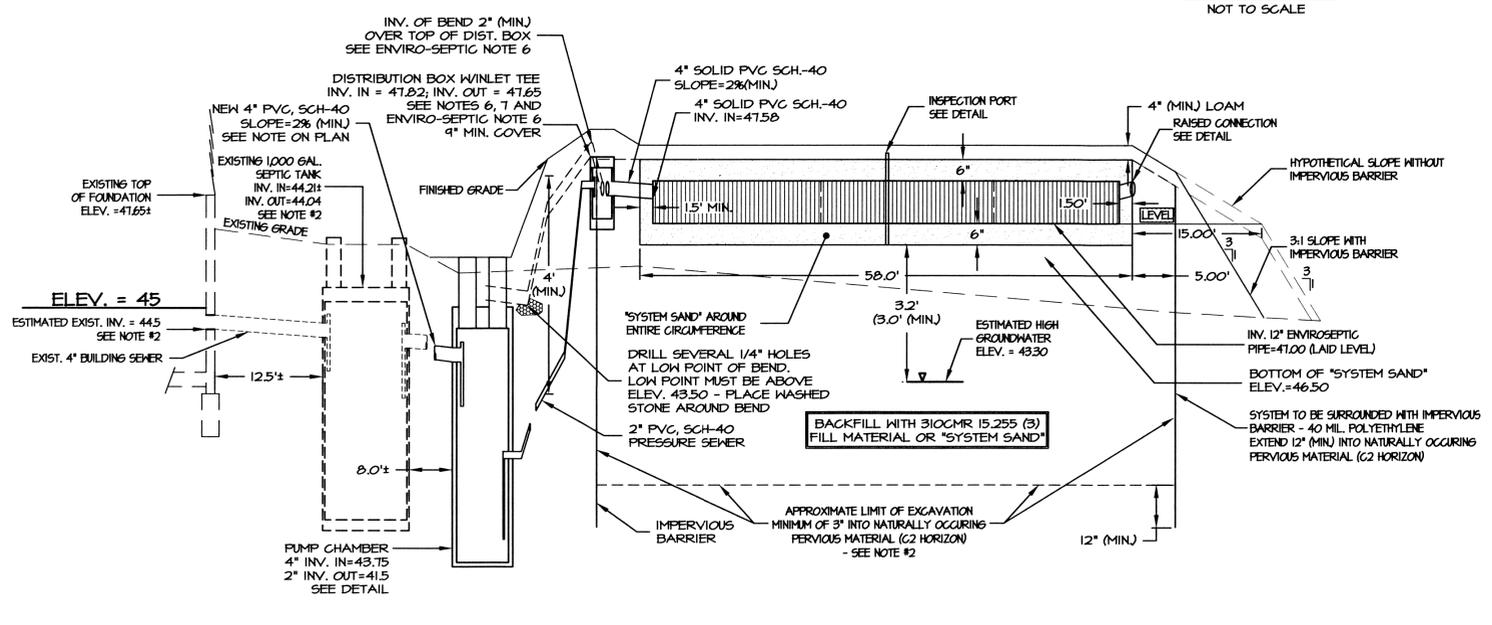
SITE PLAN

SCALE 1"=20'



INSPECTION PORT DETAIL

RAISED CONNECTION DETAIL



ENVIROSEPTIC WASTEWATER TREATMENT SYSTEM PROFILE

SCALE (HORIZONTAL) 1"=10'
SCALE (VERTICAL) 1"=2'



SEWAGE DISPOSAL SYSTEM PLAN
PREPARED FOR
GAIL ARDITO
147 BROOK HILL DRIVE
SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.
1150 PAWUCKET AVE.
RUMFORD, R.I. 02916
401-434-8880

DATE
MAY 2009
SHEET
1 OF 1

SE04-654 REPAIR