

**IMPERVIOUS RETAINING WALL**  
NOT TO SCALE

DEEP OBSERVATION HOLE "3" LOG  
ORIGINAL GRADE - 97.08

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0' - 4"	A	SANDY LOAM	10YR 3/1		
4" - 24"	B	LOAMY SAND	10YR 5/8	20%-10YR 5/8	COMMON
24" - 36"	C1	COARSE SAND	2.5Y 6/1		MED. TO FINE
36" - 100"	C2	V. F. SAND	2.5Y 6/2		

STANDING GROUNDWATER - 84"  
OBSERVED GROUNDWATER - 115" (3/21/05)  
PERC. RATE @56" = < 2 MPI

WITNESS: MR. CHENEVERT, B.O.H.  
TESTING PERFORMED BY: DEAN MONSEES

**DEEP OBSERVATION HOLE "4" LOG**  
ORIGINAL GRADE - 96.99

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0' - 4"	A	SANDY LOAM	10YR 3/1		
4" - 24"	B	LOAMY SAND	10YR 5/8	20%-10YR 6/8	COMMON
24" - 36"	C1	COARSE SAND	2.5Y 6/1		
36" - 100"	C2	V. F. SAND	2.5Y 6/2		MOIST

STANDING GROUNDWATER - 72"  
OBSERVED GROUNDWATER - 14" (3/21/05)  
PERC. RATE @56" = 1 MPI

WITNESS: MR. CHENEVERT, B.O.H.  
TESTING PERFORMED BY: DEAN MONSEES

- 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.
  - 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 HORIZONTALLY IN ALL DIRECTIONS AND POSSIBLE STRIP MATERIAL VERTICALLY 3" MINIMUM INTO THE C HORIZON. REPLACE TO "BREAKOUT" ELEV. 102.35 (MIN) WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310CMR15.255.
  - 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.
  - ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
  - PLACE 8" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK AND DISTRIBUTION BOX. IF CONDITIONS ENCOUNTERED VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK.
  - GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
  - 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 = 102.35. NO FINISHED GRADE BELOW 102.35 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA, EXCEPT WHERE IMPERVIOUS BARRIERS ARE INSTALLED.
  - 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.
  - ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE AS SPECIFIED BY 310 CMR 15.247. STONE MUST BE WASHED REPEATEDLY UNTIL THIS SPECIFICATION IS MET. ACTUAL STONE MATERIAL MAY ALSO BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENT.
  - MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM DESIGNER AND THE TOWN PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
  - THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISING THE ACTUAL CONSTRUCTION WORKS. 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 (MIN. 48 HOUR NOTICE) 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 THE 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.
  - SYSTEM TO BE CONSTRUCTED BY AN INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
  - 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 FILTERED THROUGH A "DANDY DEWATERING BAG", OR EQUAL, PRIOR TO ENTERING A PUBLIC ROADWAY STORM DRAINAGE SYSTEM.

**EROSION & SEDIMENTATION CONTROL**

- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
- ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
- HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
- NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
- ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
- APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFFSITE FROM CONSTRUCTION EQUIPMENT.
- 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.
- THE SPLIT RAIL FENCE WILL SERVE AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES AND SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION.

**NOTES:**

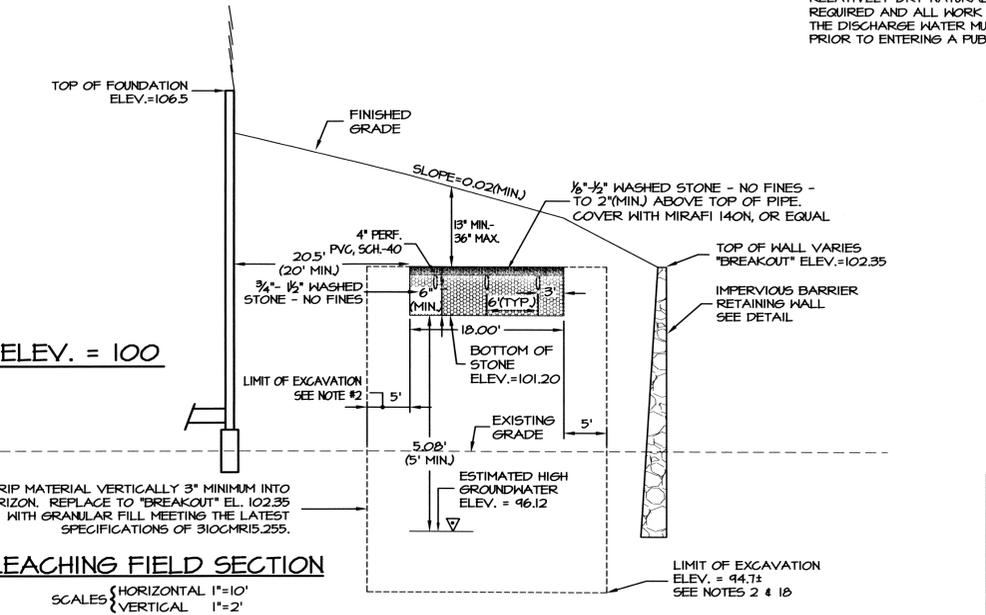
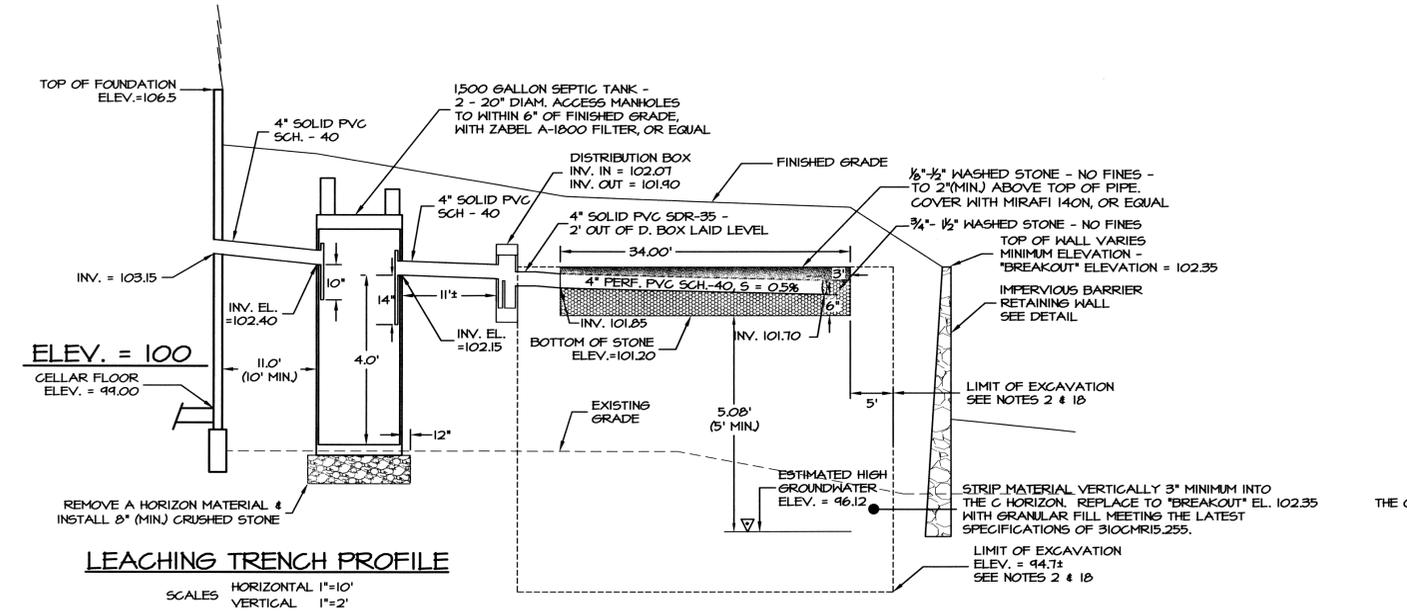
- MASSACHUSETTS NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM PRIORITY AND ESTIMATED HABITAT POLYGONS NOT PRESENT WITHIN PROPERTY LIMITS, AS MAPPED IN THE MASSACHUSETTS NATURAL HERITAGE ATLAS, 11TH EDITION.
- WETLAND DELINEATION BY CAPUTO AND WICK LTD.
- THIS PARCEL DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP OF THE TOWN OF SEEKONK ON COMMUNITY PANEL NO. 250063 0005 A DATED SEPTEMBER 5, 1974.

**DESIGN DATA**

DAILY SEWAGE FLOW  
3 BEDROOMS  
DAILY FLOW = 110 GAL./BEDROOM = 330 GALLONS PER DAY (GPD)

SEPTIC TANK REQUIREMENTS  
VOLUME = 2 x DAILY FLOW = 880 GALLONS  
USE 1500 GALLON SEPTIC TANK

LEACHING AREA REQUIREMENTS  
PERCOLATION RATE = 2 & 7 MINUTES PER INCH  
DESIGN FOR 15 MINUTES PER INCH - SOIL TEXTURE CLASS - II (PER B.O.H.)  
EFFLUENT LOADING RATE = 0.56 GALLONS PER SQUARE FOOT  
SIDENALL AREA = 0 SQUARE FEET (FIELD)  
BOTTOM AREA = 18' x 34' = 612 SQUARE FEET  
TOTAL LEACHING AREA = 612 SQUARE FEET  
TOTAL LEACHING CAPACITY  
= 612 S.F. x 0.56 GAL/DAY/S.F. = 342 GAL/DAY > 330 GPD



**LEGEND**

-100-	EXISTING CONTOUR
(100)	PROPOSED CONTOUR
MA, STD.	MASSACHUSETTS STANDARD
INV.	INVERT OF PIPE
P.C.	POLYETHYLENE GLYCOLIDE PIPE
S. D. R.	STANDARD DIMENSION RATIO
R. C. P.	REINFORCED CONCRETE PIPE
CONC.	CONCRETE (BIT. OR P. C.)
BIT.	BITUMINOUS
P. C.	PORTLAND CEMENT
TYP.	TYPICAL
F.G. 100x100	FINISHED SPOT GRADE
100x100	EXISTING SPOT GRADE
T. C.	TOP OF CURB
B. C.	BOTTOM OF CURB
E	PROPERTY LINE
-x-GLF-x-	CHAIN LINK FENCE
DB	SEPTIC TANK DISTRIBUTION BOX
DB	DEEP OBSERVATION HOLE

69-566

I CERTIFY THAT I CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP TO LOT 54 AND WAS INFORMED THAT TOWN WATER IS NOT CURRENTLY AVAILABLE AT THIS LOT.

**SEWAGE DISPOSAL SYSTEM**  
A.P. 3 - LOT 54  
ALLEN AVENUE  
SEEKONK, MASSACHUSETTS

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

DATE: MARCH 23, 2005  
SHEET: 1 OF 1

REV. 6/8/2005