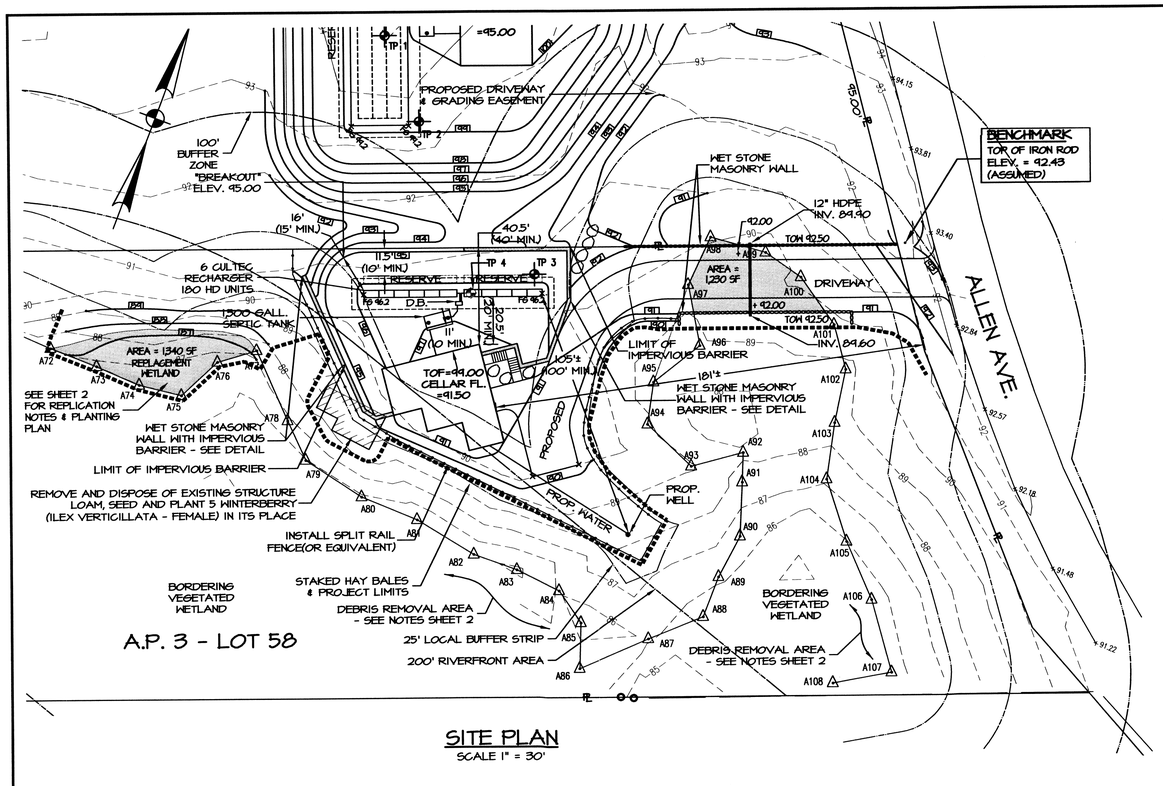
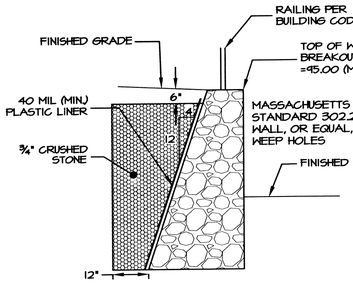


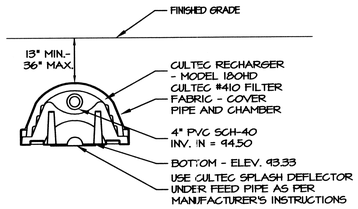
SITE PLAN

SCALE 1" = 30'



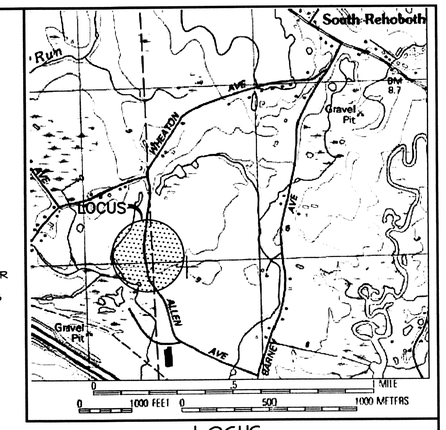
IMPERVIOUS RETAINING WALL

NOT TO SCALE



CULTECT 180-HD DETAIL

NOT TO SCALE



LOCUS

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 1,500 GALLON SEPTIC TANK
LEACHING AREA REQUIREMENTS
PERCOLATION RATE = 4 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
EFFECTIVE LEACHING AREA RECHARGER 180 HD = 8.9 S.F./L.F.
LENGTH OF CULTEC UNITS = (6 + 5) X 6.33' + 2' = 71.67'
TOTAL LEACHING AREA = 71.67' X 8.9 S.F./L.F. = 638 SQUARE FEET
TOTAL LEACHING CAPACITY
= 638 S. F. x 0.56 GAL/DAY/S.F. = 357 GAL./DAY > 330 GPD

DEEP OBSERVATION HOLE "3" LOG
ORIGINAL GRADE - 91.25

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0 - 12"	Ap	SANDY LOAM	10YR 3/1	-	-
12" - 24"	B	LOAMY SAND	10YR 6/8	-	-
36" - 100"	C	M. - F. SAND	2.5Y 6/1	30"-10YR 5/8	COMMON MOTTLES

STANDING GROUNDWATER - 84"
OBSERVED GROUNDWATER - 11.5" (3/21/05)
PERC. RATE @ 46" = 4 MPI
WEEPING GROUNDWATER - 84"
ESTIMATED HIGH GROUNDWATER-11.5" (ELEV.-96.12)
DATE OF TEST - 9/16/04
WITNESS: MR. CHENEVERT, B.O.H.
TESTING PERFORMED BY: DEAN MONSEES

DEEP OBSERVATION HOLE "4" LOG
ORIGINAL GRADE - 90.48

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0 - 9"	A	SANDY LOAM	10YR 3/1	-	-
9" - 24"	B	LOAMY SAND	10YR 5/8	-	-
24" - 36"	C1	COARSE SAND	2.5Y 6/1	24"-10YR 6/8	COMMON MOTTLES
36" - 120"	C2	V. F. SAND	2.5Y 7/1	-	MOIST

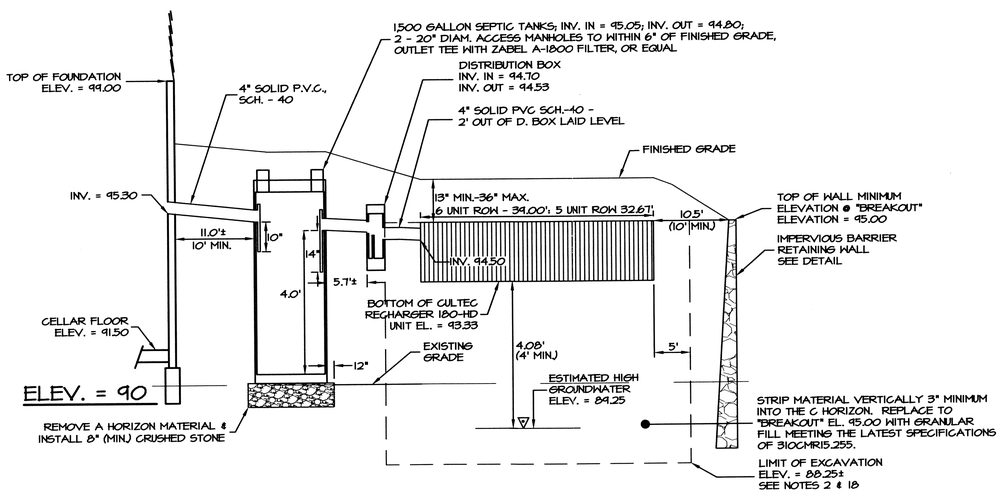
STANDING GROUNDWATER - 100"
OBSERVED GROUNDWATER - 16" (3/21/05)
PERC. RATE @ 58" = 4 MPI
WEEPING GROUNDWATER - 90"
ESTIMATED HIGH GROUNDWATER-16" (ELEV.-89.15)
DATE OF TEST - 9/16/04
WITNESS: MR. CHENEVERT, B.O.H.
TESTING PERFORMED BY: DEAN MONSEES

NOTES:

1. 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.
2. WETLAND DELINEATION BY CAPUTO AND WICK LTD.
3. 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.

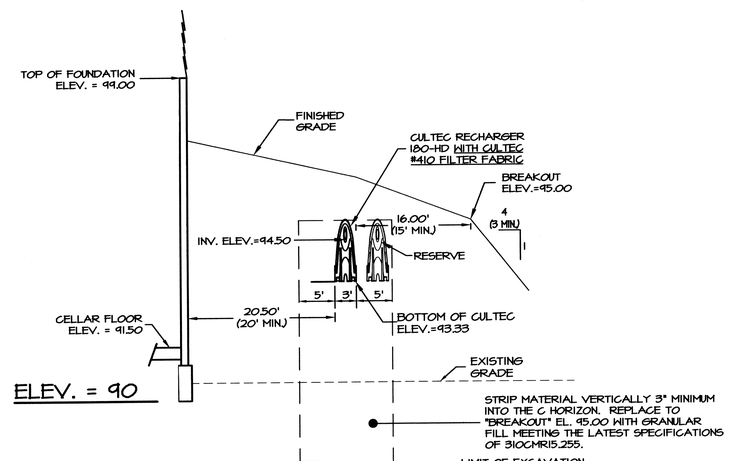
NOTES:

1.) 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.
2.) 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, WHERE POSSIBLE. STRIP MATERIAL VERTICALLY 3" MINIMUM INTO THE C HORIZON. REPALCE TO "BREAKOUT" ELEV. 95.00 (MIN.) WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310CMR15.255.
3.) THE CONTRACTOR IS TO REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORBTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION.
4.) ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
5.) PLACE 8" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK AND DISTRIBUTION BOX.
6.) IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK.
7.) GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
8.) INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
9.) IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
10.) BREAKOUT ELEVATION = 95.00. NO FINISHED GRADE BELOW 95.00 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA, EXCEPT WHERE IMPERVIOUS BARRIERS ARE INSTALLED.
11.) 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.
12.) ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE AS SPECIFIED BY 310 CMR 15.241. 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.
13.) MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE [illegible] AND/OR EQUIPMENT EQUALITY FROM DESIGNER AND THE TOWN PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
14.) 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 (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.
15.) 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.
16.) 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
17.) SYSTEM TO BE CONSTRUCTED BY A INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
18.) 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.



LEACHING CHAMBER PROFILE

SCALES {HORIZONTAL 1"=10' / VERTICAL 1"=2'}



LEACHING CHAMBER SECTION

SCALES {HORIZONTAL 1"=10' / VERTICAL 1"=2'}

LEGEND

-100-	EXISTING CONTOUR
(100)	PROPOSED CONTOUR
MA. STD.	MASSACHUSETTS STANDARD
INV.	INVERT OF PIPE
P. V. C.	POLYVINYL CHLORIDE PIPE
S. D. R.	STANDARD DIMENSION RATIO
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE
CONC.	CONCRETE (BIT. OR P. C.)
BIT.	BITUMINOUS
P. C.	PORTLAND CEMENT
TYP.	TYPICAL
F.G. 100x00	FINISHED SPOT GRADE
100x00	EXISTING SPOT GRADE
T. C.	TOP OF CURB
B. C.	BOTTOM OF CURB
℄	PROPERTY LINE
-x-CLF-x-	CHAIN LINK FENCE
ST	SEPTIC TANK
DB	DISTRIBUTION BOX
◆	DEEP OBSERVATION HOLE

Received
FEB 27 2006
Con. Comm.

69-587

I CERTIFY THAT I CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP TO LOT 58 AND WAS INFORMED THAT TOWN WATER IS NOT CURRENTLY AVAILABLE AT THIS LOT.

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. WICK
CIVIL
No. 27837
REGISTERED PROFESSIONAL ENGINEER

REV. 2/14/2006
REV. 6/8/2005

SEWAGE DISPOSAL SYSTEM
A.P. 3 - LOT 58
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 2