

- 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 IN ALL DIRECTIONS, WHERE POSSIBLE. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310CMR15.25(3). STRIPPING NOT REQUIRED WHERE TOP OF TRENCH IS BELOW BOTTOM OF B.W. HORIZON.
  - 3.) ALL PIPE TO BE 4" P.V.C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
  - 4.) PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK AND DISTRIBUTION BOX.
  - 5.) IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. BEFORE PROCEEDING WITH CONSTRUCTION.
  - 6.) GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
  - 7.) IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
  - 8.) BREAKOUT ELEVATION = 29.70. NO FINISHED GRADE BELOW 29.70 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA.
  - 9.) 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.
  - 10.) THE CELLAR FLOOR ELEVATION SHOWN HAS BEEN SUGGESTED AS A MINIMUM BASED ON OBSERVED GROUNDWATER CONDITIONS SINCE THE GROUNDWATER LEVELS FLUCTUATE ANNUALLY, NO WARRANTY OF A DRY CELLAR IS EXPRESSED OR IMPLIED.
  - 11.) ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE DOUBLE WASHED AS SPECIFIED BY 310 CMR 15.247. ACTUAL STONE MATERIAL MAY ALSO BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENT.
  - 12.) SEPTIC TANK INLET AND OUTLET TEES ARE TO BE POSITIONED DIRECTLY BELOW ACCESS MANHOLES.

**DESIGN DATA**

DAILY SEWAGE FLOW  
 PROPOSED BEDROOMS = FOUR  
 DAILY FLOW = 110 GAL./DAY/BEDROOM x 4 BEDROOMS = 440 GALLONS PER DAY

SEPTIC TANK REQUIREMENTS  
 VOLUME = 2 x DAILY FLOW = 880 GALLONS - MINIMUM SIZE = 1500 GALLONS

LEACHING AREA REQUIREMENTS  
 PERCOLATION RATE = 12 MINUTES PER INCH - DESIGN FOR 5 MINUTES PER INCH - SOIL TEXTURE CLASS - 1  
 EFFLUENT LOADING RATE = 0.14 GAL. PER S.F.  
 SIDE AREA = (45' x 3' x 2' x 2' x 2' = 384 SQUARE FEET  
 BOTTOM AREA = 45' x 3' x 2' = 270 SQUARE FEET  
 TOTAL LEACHING AREA = 654 SQUARE FEET  
 TOTAL LEACHING CAPACITY = 654 S.F. x 0.14 GAL./DAY/S.F. = 484 GALLONS/DAY x 440 GPD

**DEEP OBSERVATION HOLE "1" LOG**  
 ORIGINAL GRADE - 32.44

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0' - 16"	Ap	SANDY LOAM	10 YR 3/3	---	MASSIVE, FRIABLE
16" - 26"	Bw	LOAMY SAND	7.5 YR 4/6	---	MASSIVE, FRIABLE
26" - 54"	G1	MED. CRS. SAND	2.5 Y 4/4	---	LOOSE, SINGLE GRAIN
54" - 132"	G2	MED. FINE SAND	2.5 Y 6/3	---	VERY FRIABLE, SINGLE GRAIN
132" - 148"	G3	COARSE SAND	2.5 Y 5/2	MANY FINE CRS.	LOOSE, SINGLE GRAIN
148" - 160"	G4	MED. FINE SAND	2.5 Y 6/3	---	LOOSE, SINGLE GRAIN

OBSERVED GROUNDWATER - NONE TO 160"  
 ESTIMATED HIGH GROUNDWATER - 132" (EL. 21.44)  
 VERIFIED MOTTLES AT 132" 2.5YR 2.5/2  
 REMOVE TO 3" INTO G1 HORIZON

**DEEP OBSERVATION HOLE "2" LOG**  
 ORIGINAL GRADE - 31.64

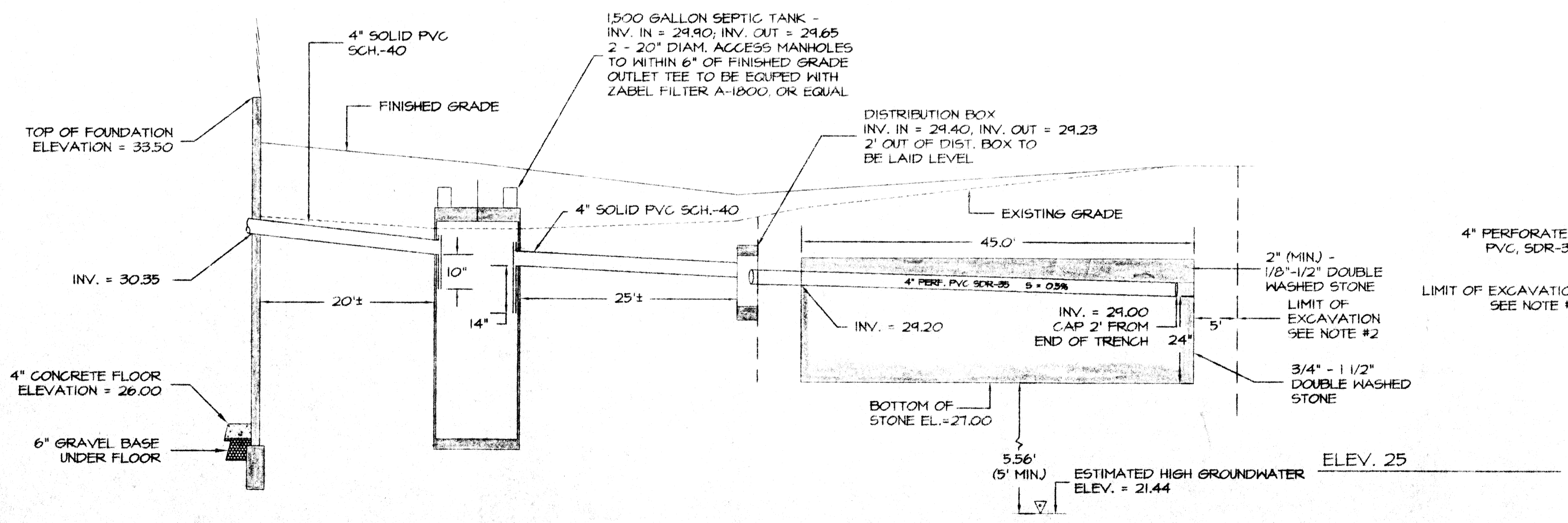
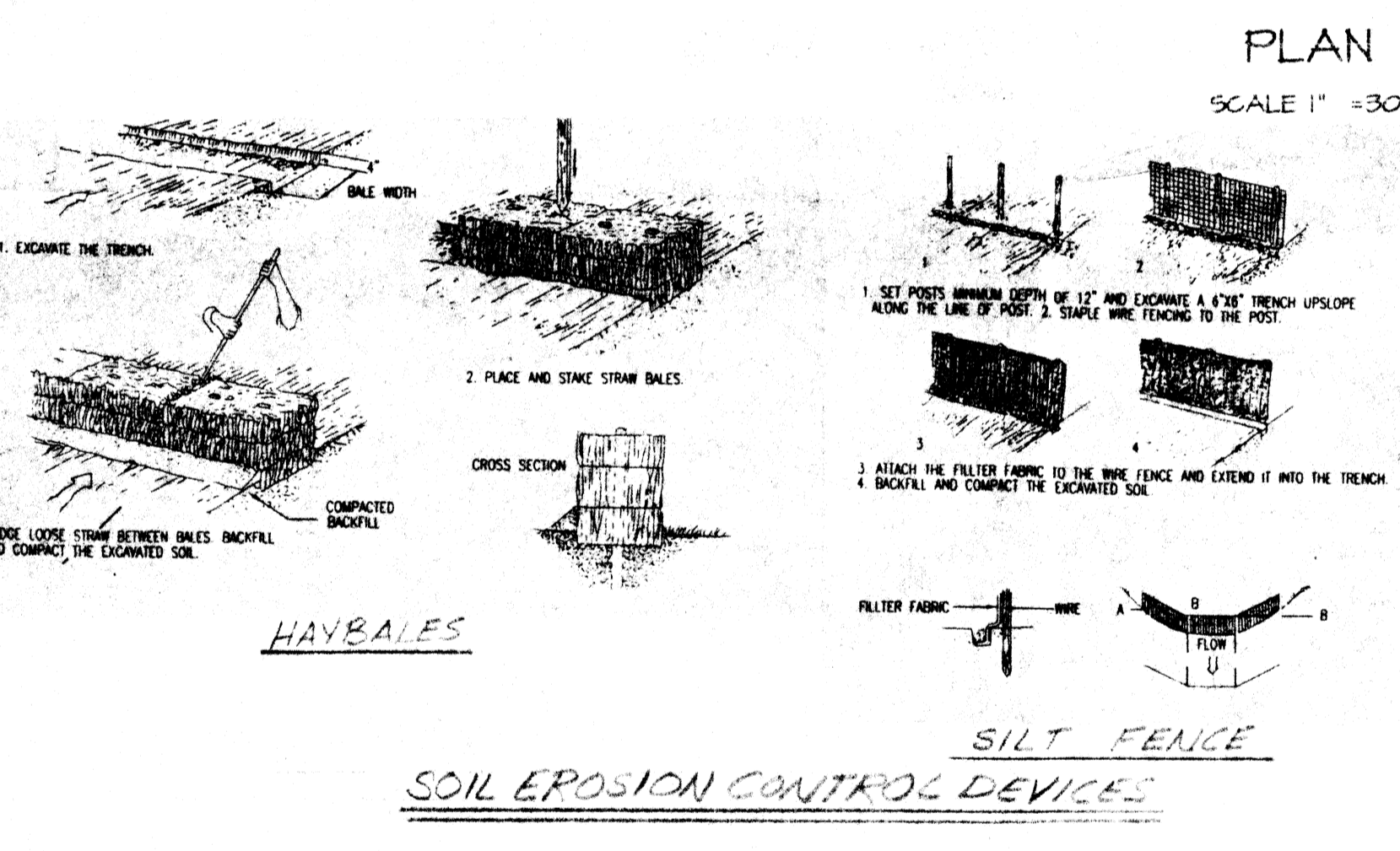
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0' - 12"	Ap	SANDY LOAM	10 YR 3/3	---	MASSIVE, FRIABLE
12" - 26"	Bw	LOAMY SAND	7.5 YR 4/6	---	MASSIVE, FRIABLE
26" - 64"	G1	MED. CRS. SAND	2.5 Y 4/4	---	LOOSE, SINGLE GRAIN
64" - 132"	G2	MED. FINE SAND	2.5 Y 6/3	---	VERY FRIABLE, SINGLE GRAIN
132" - 148"	G3	COARSE SAND	2.5 Y 5/2	MANY FINE CRS.	LOOSE, SINGLE GRAIN
148" - 160"	G4	MED. FINE SAND	2.5 Y 6/3	---	LOOSE, SINGLE GRAIN

OBSERVED GROUNDWATER - 164"  
 GROUNDWATER TABLE READ 4/21/98 - 161"  
 PERC. RATE @ 65" H<sub>2</sub>O = 2.1 MPI (UNABLE TO SATURATE)  
 WEEPING GROUNDWATER AT 162"  
 ESTIMATED HIGH GROUNDWATER - 160" (EL. = 18.31)  
 REMOVE TO 3" INTO G1 HORIZON

**DEEP OBSERVATION HOLE "3" LOG**  
 ORIGINAL GRADE - 30.34

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0' - 12"	Ap	SANDY LOAM	10 YR 3/3	---	MASSIVE, FRIABLE
12" - 26"	Bw	LOAMY SAND	7.5 YR 4/6	---	MASSIVE, FRIABLE
26" - 50"	G1	MED. CRS. SAND	2.5 Y 4/4	---	LOOSE, SINGLE GRAIN
50" - 64"	G2	MED. FINE SAND	2.5 Y 5/4	---	VERY FRIABLE, SINGLE GRAIN
64" - 108"	G3	MED. CRS. SAND	2.5 Y 5/2	MANY FINE CRS.	LOOSE, SINGLE GRAIN
108" - 132"	G4	SANDY LOAM	2.5 Y 4/3	MANY FINE DIST.	FLAT, FRIABLE
132" - 150"	G5	COARSE SAND	2.5 Y 5/2	---	LOOSE, SINGLE GRAIN

OBSERVED GROUNDWATER - NONE TO 150"  
 ESTIMATED HIGH GROUNDWATER - NONE TO 145" (EL. = 18.26)  
 PERC. RATE @ 60" H<sub>2</sub>O = 1.8 MPI (UNABLE TO SATURATE)  
 GROUNDWATER TABLE READ 4/21/98 - NONE TO 145"  
 REMOVE TO 3" INTO G1 HORIZON  
 WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH  
 TESTING PERFORMED BY: CAPUTO AND WICK LTD. DATE OF TESTS - 4/21/98



**LEACHING TRENCH PROFILE**

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

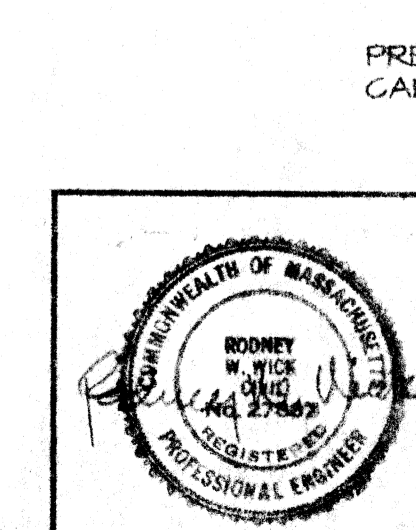
**LEACHING TRENCH SECTION**

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

**LEGEND**

- 100- PROPOSED CONTOUR
- 120- EXISTING CONTOUR
- NA STD. MASSACHUSETTS STANDARD
- INV. INVERT OF PIPE
- P.V.C. POLYVINYL CHLORIDE PIPE
- S.D.R. STANDARD DIMENSION RATIO
- R.C.P. REINFORCED CONCRETE PIPE
- CONC. CONCRETE (BT OR R.C.)
- D.M.H. DRAIN MANHOLE
- C.B. CATCH BASIN
- TYP. TYPICAL
- F.S. 100X00 FINISHED SPOT GRADE
- 100X00 EXISTING SPOT GRADE
- T.C. TOP OF CURB
- B.G. BOTTOM OF CURB
- E. PROPERTY LINE
- X-CLF- CHAIN LINK FENCE
- ST SEPTIC TANK
- DB DISTRIBUTION BOX
- DEEP OBSERVATION HOLE
- EXISTING EDGE OF WOODS

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLAT 2, LOT 109 AND IT IS SHOWN CORRECTLY. THE WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.



**SEWAGE DISPOSAL SYSTEM**  
 PLAT 2, LOT 109  
 RAYMOND DRIVE  
 SEEKONK, MASSACHUSETTS

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

DATE JULY, 1998  
 SHEET 1 OF 1

REV. 10/28/98