

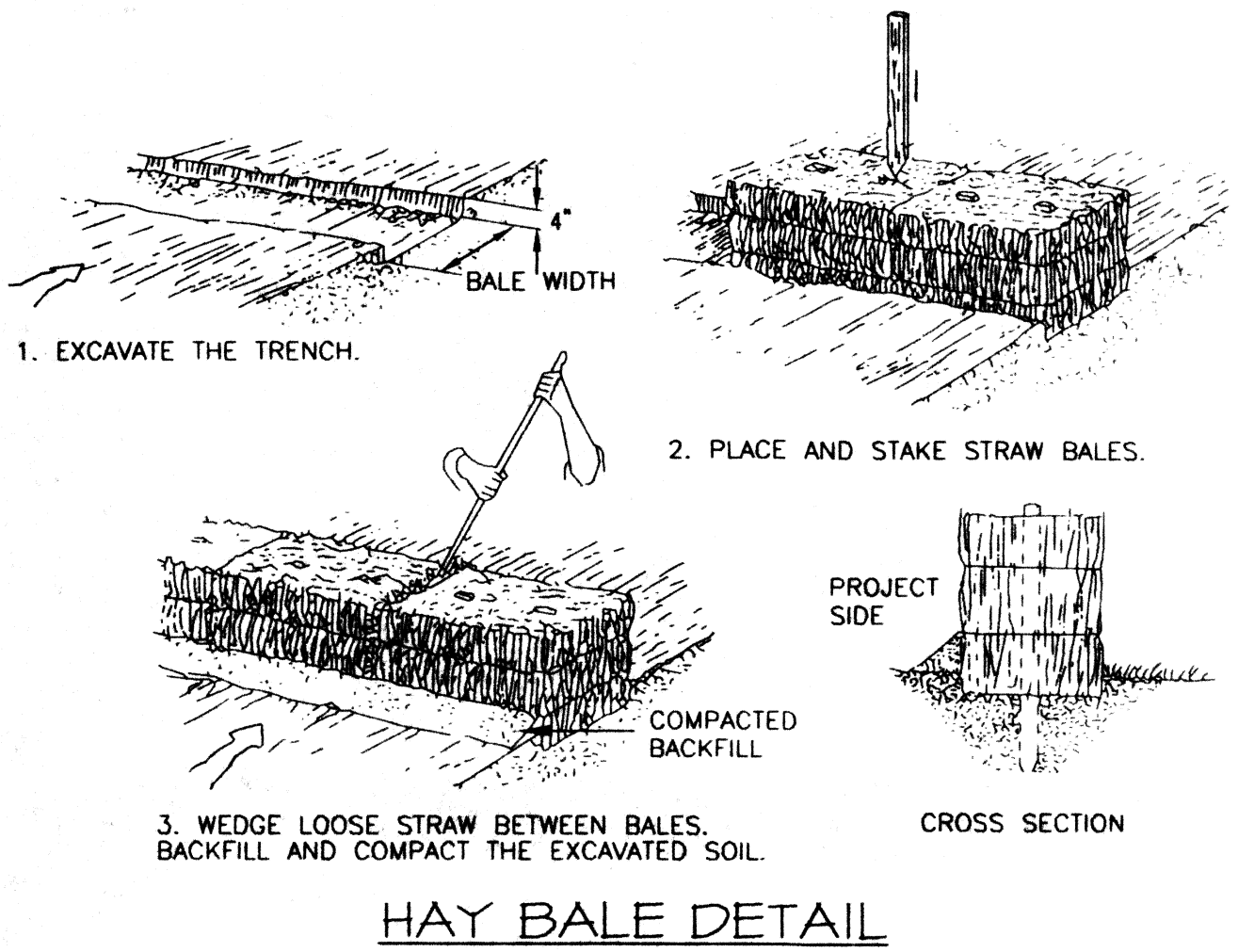
- NOTES:**
- 1) ALL WORK SHALL CONFORM TO THE 310 CMR 15.00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH.
  - 2) STRIP ALL TOPSOIL, SUBSOIL, EXISTING SEWAGE DISPOSAL SYSTEM AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED 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 310 CMR 15.25(3).
  - 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. ANY EXISTING GARBAGE DISPOSALS ARE TO BE REMOVED.
  - 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 = 98.60. NO FINISHED GRADE BELOW 98.60 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA, EXCEPT WHERE NOTED.
  - 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) ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE DOUBLE WASHED AS SPECIFIED BY 310 CMR 15.241. ACTUAL STONE MATERIAL MAY ALSO BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENCY.
  - 11) EXISTING CESSPOOL IS TO BE PUMPED OUT, RINSED WITH CLEAN WATER AND PUMPED OUT AGAIN. PUMPING MUST BE PERFORMED BY A STATE LICENSED SEPTIC HAULER AND THE CONTENTS OF THE TANK DISPOSED OF PROPERLY. AFTER PUMPING, REMOVE TOP TWO FEET OF THE STRUCTURE AND FILL TO GRADE WITH CLEAN GRANULAR MATERIAL.
  - 12) ALL PORTIONS OF FOUNDATIONS THAT REQUIRE FILL, FOR BOTH DWELLING AND GARAGE, ARE TO BE WATERPROOFED PRIOR TO FILLING.
  - 13) THE STAKED HAY BALES SERVE AS THE PROJECT LIMIT. NO DEBRIS, SOILS, ETC. SHALL BE DEPOSITED IN FRESHWATER WETLANDS.

**DESIGN DATA**

**DAILY SEWAGE FLOW**  
EXISTING 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 = 2 MINUTES PER INCH (ASSUMED)  
DESIGN FOR 5 MINUTES PER INCH - SOIL TEXTURE CLASS - 1  
EFFLUENT LOADING RATE = 0.14 GALLONS PER SQUARE FOOT  
SIDEWALL AREA = [(21x2) + (9x2)] x 0.751 x 2 = 108 SQUARE FEET  
BOTTOM AREA = 21' x 9' x 2 = 486 SQUARE FEET  
TOTAL LEACHING AREA = 594 SQUARE FEET  
TOTAL LEACHING CAPACITY = 594 S.F. x 0.14 GAL/DAYS.F. = 440 GAL/DAY



**DEEP OBSERVATION HOLE "1" LOG**  
ORIGINAL GRADE - 97.30

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 42"	FILL				
42" - 94"	CI	COARSE LOAMY SAND	25 Y 4/2	38" - MANY, COARSE, COMMON	GRAVELLY, LOOSE, SINGLE GRAIN

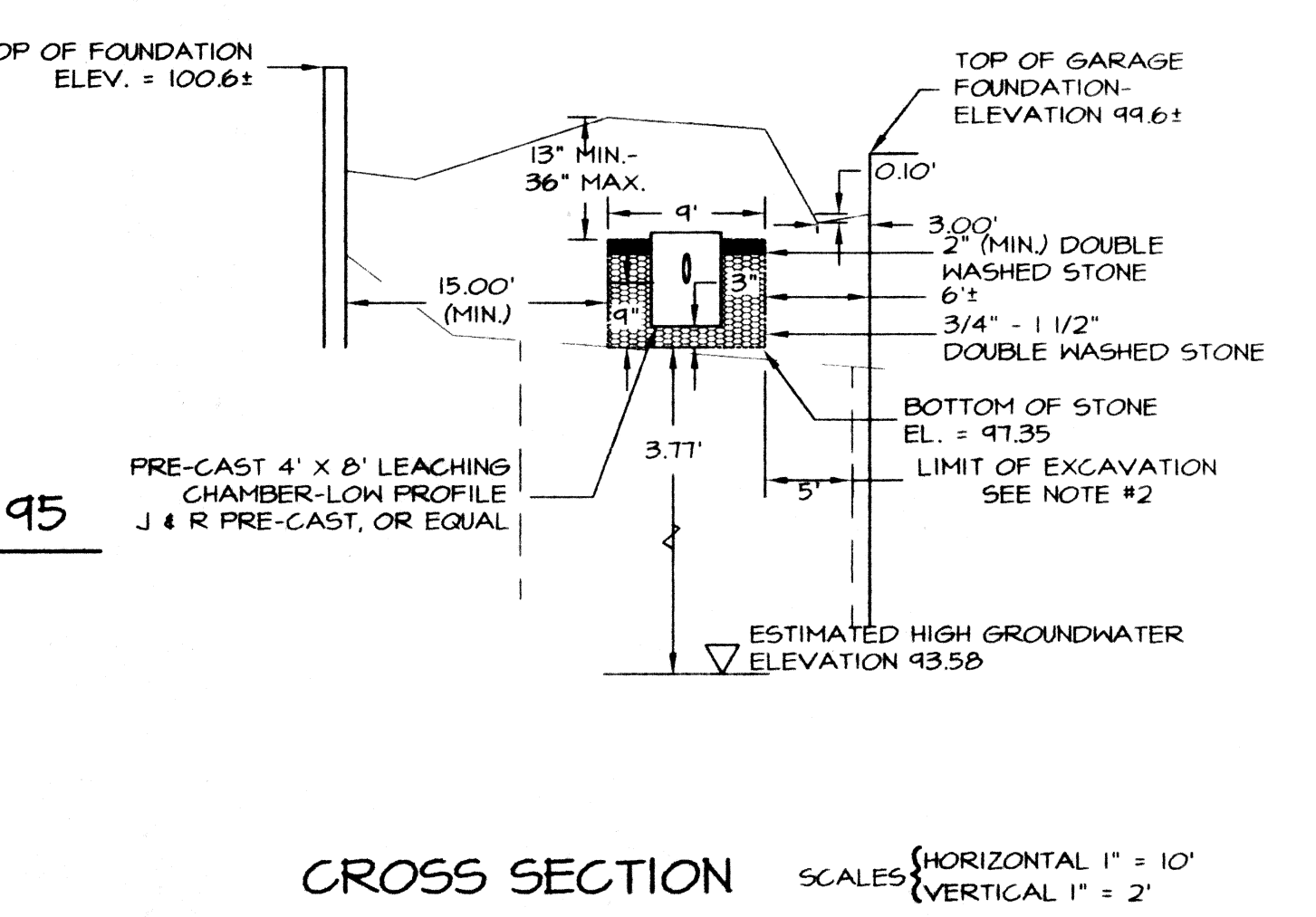
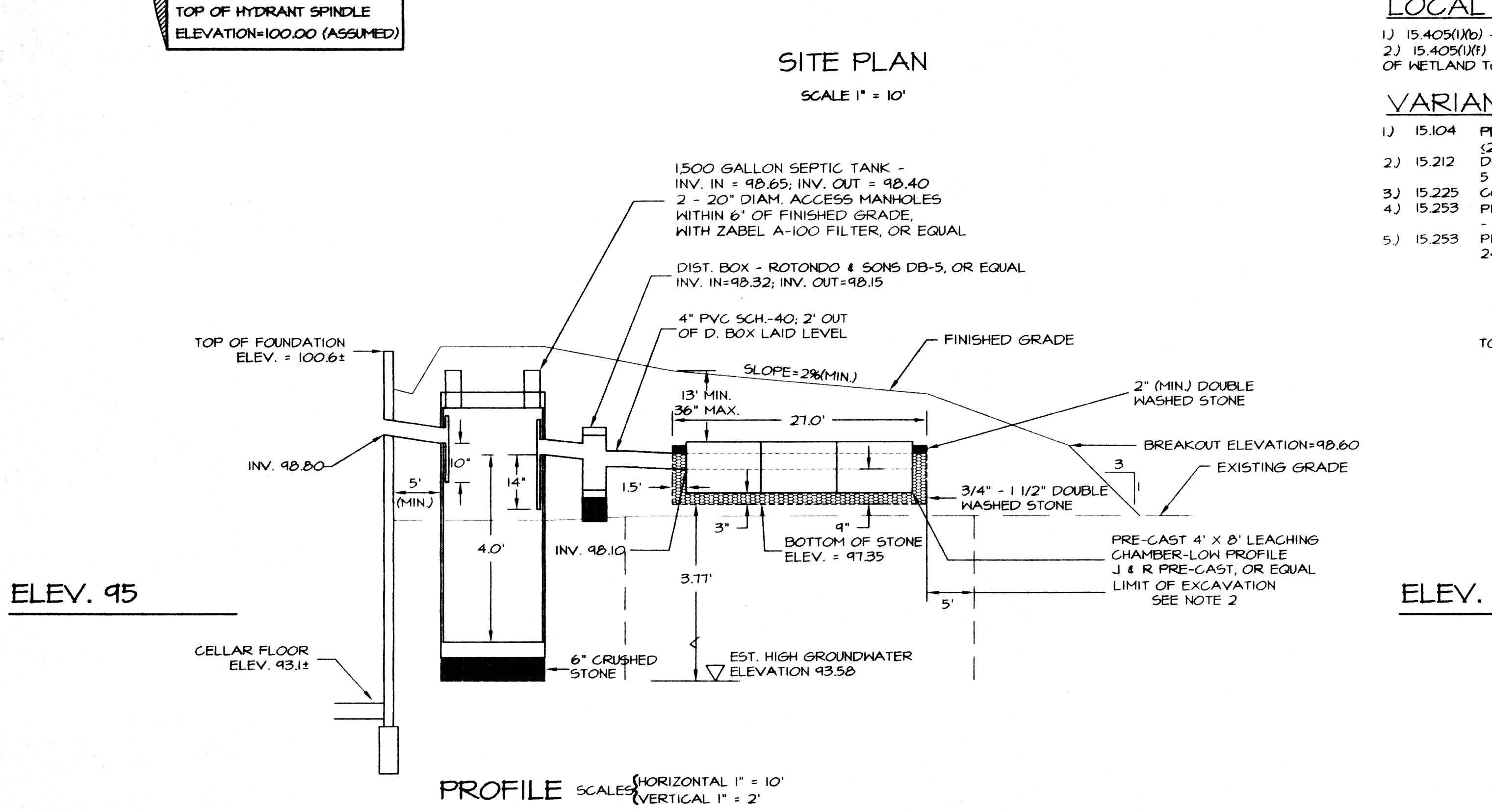
**OBSERVED STANDING GROUNDWATER** - 54"  
**FRIMPTER ADJUSTMENT** - (1.28) (SEE BELOW)  
**REMOVE TO 3" INTO G1 HORIZON**  
**PERCOLATION TEST** - NONE (HIGH GROUNDWATER) - ASSUME 2 MINUTES/INCH  
**WITNESS:** MR. GENEVIER, SEEKONK BOARD OF HEALTH  
**TESTING PERFORMED BY:** CAPUTO AND WICK LTD.  
**DATE OF SOIL TEST:** MARCH 11, 1999

**OBSERVED WEeping GROUNDWATER** - 48"  
**ESTIMATED HIGH GROUNDWATER** - EL. = 93.58  
**SIEVE ANALYSIS** - SAND (0.075 SILT, NO CLAY)

- LOCAL UPGRADES REQUIRED**
- 1) 15.405(1)(b) - LESS THAN REQUIRED SETBACK FROM CELLAR WALL AND SLAB FOUNDATION
  - 2) 15.405(1)(f) - LESS THAN REQUIRED SETBACK TO BORDERING VEGETATED WETLAND - CLASSIFICATION OF WETLAND TO BE DETERMINED.
- VARIANCES REQUIRED**
- 1) 15.104 PERCOLATION TESTING - NO PERCOLATION TEST PERFORMED (PERCOLATION RATE ASSUMED (2MPI))
  - 2) 15.212 DEPTH TO GROUNDWATER - LESS THAN REQUIRED SEPARATION TO ESTIMATED GROUNDWATER - 5 FEET REQUIRED (PERCOLATION RATE ASSUMED (2 MPI) - 3.71 FEET PROVIDED)
  - 3) 15.225 CONSTRUCTION IN FILL - IMPERVIOUS BARRIER - 10 FEET REQUIRED - 6± FEET PROVIDED
  - 4) 15.253 PITS, GALLERIES, OR CHAMBERS - SEPARATION DISTANCE - TWO TIME WIDTH (10 FEET) REQUIRED - 5 FEET PROVIDED
  - 5) 15.253 PITS, GALLERIES, OR CHAMBERS - INLET TO CHAMBER EVERY 20 FEET - ONE PROVIDED FOR 24 FEET.

**FRIMPTER CALCULATIONS**

**SITE OBSERVED GROUNDWATER** = 4.0'  
**SITE WATER LEVEL RANGE** = 3.7' (SAND-VALLEY)  
**OBSERVATION WELL CURRENT** (MARCH 10, 1998) = 5.22'  
**OBSERVATION WELL MAXIMUM** = 5.02'  
**OBSERVATION WELL RANGE** = 2.60'  
**SITE ADJUSTED GROUNDWATER** = 5c -  $\frac{5c(5.22 - 5.02)}{2.60}$   
**SITE ADJUSTED GROUNDWATER** = 6.0' -  $\frac{3.7(5.22 - 5.02)}{2.60}$  = 3.72'  
**ESTIMATED HIGH GROUNDWATER** = 97.30 - 3.72' = 93.58



**LEGEND**

- 100- EXISTING CONTOUR
- 1001- PROPOSED CONTOUR
- MA 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 (BIT. OR P.C.)
- BIT. BITUMINOUS
- P.C. PORTLAND CEMENT
- TYP. TYPICAL
- P.6 100x00 FINISHED SPOT GRADE
- 100x00 EXISTING SPOT GRADE
- T.C. TOP OF CURB
- B.C. BOTTOM OF CURB
- F. PROPERTY LINE
- x-CLF-x- CHAIN LINK FENCE
- ST SEPTIC TANK
- DB DISTRIBUTION BOX
- DEEP OBSERVATION HOLE

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLAT 12, LOTS 313 AND 314 AND THAT IT IS SHOWN CORRECTLY. THE DIMENSION BETWEEN THE WATER SERVICE AND THE SEWAGE SYSTEM COMPONENTS COMPLIES WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.

**REPAIR**

**SEWAGE DISPOSAL SYSTEM**  
23 AVON STREET  
PLAT 12, LOTS 313 & 314  
SEEKONK, MASSACHUSETTS

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

**DATE**  
MAY, 1999

**SHEET**  
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