DESIGN DATA

DAILY SEWAGE FLOW: BACKWASH FROM FILTERS 1000 GALLONS
TOTAL DAY DESIGN FLOW = 1000 GALLONS PER DAY
SEPTIC TANK REQUIREMENTS
VOLUME COMPARTMENT 1 = 200% DAILY FLOW = 2 x 1000 = 2000 GALLONS
VOLUME COMPARTMENT 2 = 100% DAILY FLOW = 1000 GALLONS
USE 2 COMPARTMENT 3000 GALLONS SEPTIC TANK
ROTONDO AND SONS, INC. ST 6x14-3 WITH BAFFLE OR EQUAL
FIRST COMPARTMENT VOLUME = 2000 GALLONS
SECOND COMPARTMENT = 1000 GALLONS
DISTRIBUTION BOX
ROTONDO AND SONS, INC. DB-14 WITH BAFFLE OR EQUAL
PUMP CHAMBER
LEACHING AREA REQUIREMENTS
PERCOLATION RATE = 4 MINUTES PER INCH
DESIGN FOR 5 MINUTES PER INCH - SOIL TEXTURE CLASS - 1
EFFLUENT LOADING RATE = 0.74 GAL. PER S.F.
SIDEWALL AREA = 0 FEET (FIELD) = 0 SQUARE FEET
BOTTOM AREA = 75' x 30' = 2,250 SQUARE FEET
TOTAL LEACHING AREA = 2,250 SQUARE FEET
TOTAL LEACHING CAPACITY
= 2,250 S.F. x 0.74 GAL / DAY / S.F. = 1,665 GALLONS/DAY > 1,000 GALLONS / DAY

PUMP DATA

PUMP MODEL
GOULD 3887 SERIES WS 0534BF; ? HORSEPOWER; 2" SOLIDSW HANDLING CAPACITY
3" DISCHARGE; ELECTRICAL - 460 VOLTS; 1.7 AMPS; 3 PHASE

CONTROL PANE
GOULD - MODEL D10020 N1; ENCLOSURE - NEMA 1; PHASE - 3; VOLTAGE - 480
PROVIDE PUMP ALTERNATOR AND AUDIO/VISUAL HIGH LEVEL ALARM

FLOATS MODEL
GOULD MODEL A2-3

PUMP CHAMBER
ROTONDO AND SONS ST 6x14-25
MODIFIED FOR PUMP CHAMBER USE

SEWAGE DISPOSAL SYSTEM 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.) IN ACCORDANCE WITH 310 CMR 15.255(5), STRIP ALL UNSUITABLE MATERIAL (I.e. TOPSOIL, SUBSOIL, TREE ROOTS, STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL). THE EXCAVATION AND REMOVAL OF THIS UNSUITABLE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCURRING PERVIOUS MATERIAL AS REQUIRED BY 310 CMR 15.240 AND REPLACE WITH GRANULAR FILL MATERIAL MEETING THE LATEST SPECIFICATIONS OF 310 CMR 15.255(3)

3.) ALL PIPE TO BE 4" PVC 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 WATERMAN ENGINEERING CO. AND THE SEEKONK BOARD OF HEALTH AGENT BEFORE PROCEEDING WITH CONSTRUCTION.

6.) GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.

7.) THE SEPTIC TANK IS TO BE INSPECTED TWICE A YEAR AND CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.

8.) BREAKOUT ELEVATION = 157± NO FINISHED GRADE BELOW 157.6 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.) INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS. 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.

12.) SEPTIC TANK AND PUMP CHAMBER SHALL BE DESIGNED FOR HS-20-44 LOADING.

13.) THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISINGTHE 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.

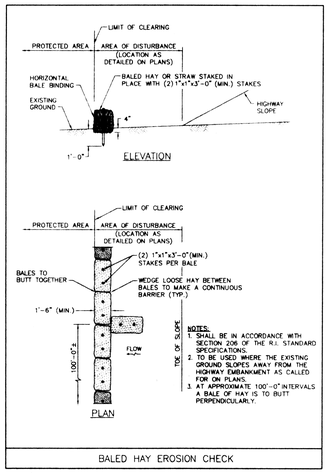
14.) THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY, FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.

15.) 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.

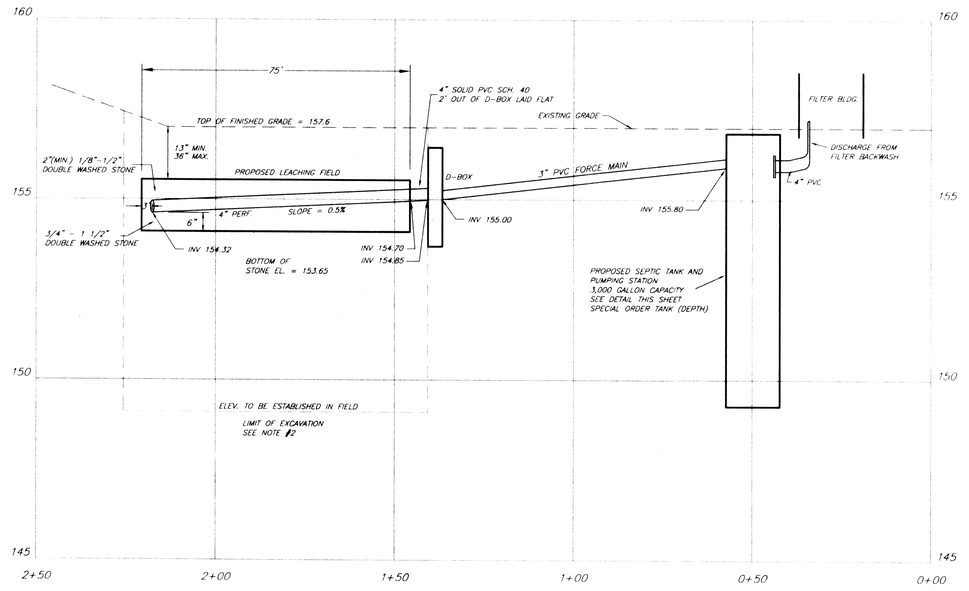
16.) SYSTEM INSTALLER TO SUBMIT SHOP DRAWINGS OF ALL SYSTEM COMPONENTS TO WATERMAN ENGINEERING CO. FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION.

17.) SYSTEM TO BE CONSTRUCTED BY AN INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.

18.) ALL ELECTRIC WORK TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.



BALED HAY EROSION CHECK



SCALES : HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

DEEP OBSERVATION HOLE "1" LOG
ORIGINAL GRADE - 157.6 ±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0-24"	Bw1	LOAM	BROWN		–
24" - 62"	–	FILL	BROWN	@ 54"	ROCKS
62" - 108"	Cd1	GRAVEL	TAN		FIRM

GROUNDWATER WEEPING - N/A
GROUNDWATER STANDING - N/A
ESTIMATED HIGH GROUNDWATER - N/A
PERCOLATION TEST AT 48" - 70" = 4 MIN/IN

REMOVE TO 3" INTO C1 HORIZON
DATE OF TEST - SEPTEMBER 15, 2003
WITNESS - MR. MELLO, SEEKONK BOARD OF HEALTH

DEEP OBSERVATION HOLE "2" LOG
ORIGINAL GRADE - 157.6 ±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0-24"	Bw1	LOAM	BROWN		–
24" - 58"	–	FILL	BROWN	@ 60"	ROCKS
58" - 108"	Cd1	GRAVEL	TAN		FIRM

GROUNDWATER WEEPING - N/A
GROUNDWATER STANDING - N/A
ESTIMATED HIGH GROUNDWATER - N/A
PERCOLATION TEST AT 48" - 70" = 4 MIN/IN

REMOVE TO 3" INTO C1 HORIZON
DATE OF TEST - SEPTEMBER 15, 2003
WITNESS - MR. MELLO, SEEKONK BOARD OF HEALTH

PERC TEST HOLE "1" LOG
ORIGINAL GRADE - 157.6 ±

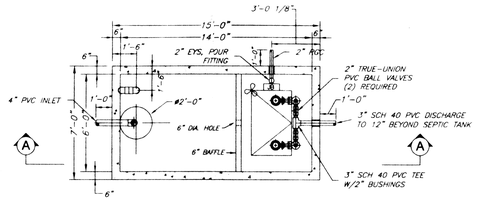
DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	PERC	DESIGN
0-24"	–	LOAM	–		
24" - 58"	Bw1	FILL / GRAVEL	TAN	1" / 4 MIN.	1" / 5 MIN.

DATE OF TEST - SEPTEMBER 15, 2003
WITNESS - MR. MELLO, SEEKONK BOARD OF HEALTH

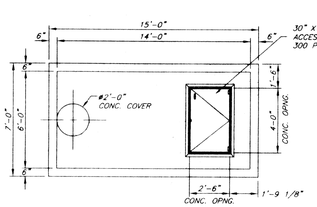
PERC TEST HOLE "2" LOG
ORIGINAL GRADE - 157.6 ±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	PERC	DESIGN
0-24"	–	LOAM	–		
24" - 53"	Bw1	FILL / GRAVEL	TAN	1" / 4 MIN.	1" / 5 MIN.

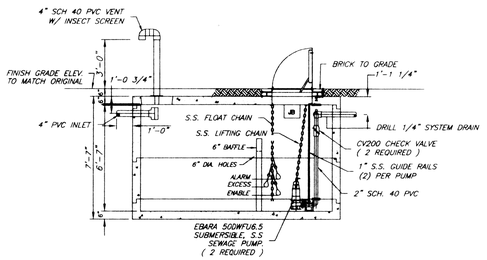
DATE OF TEST - SEPTEMBER 15, 2003
WITNESS - MR. MELLO, SEEKONK BOARD OF HEALTH



PLAN VIEW



PLAN VIEW
@ TOP OF SEPTIC TANK
SHOWING ACCESS HATCH



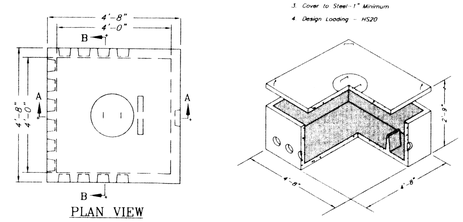
SECTION "A-A"

3,000 GALLON SEPTIC TANK W/PUMPING INSTALLATION

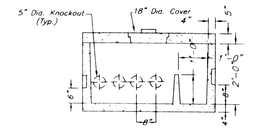
DB-14 DISTRIBUTION BOX

4'-0" x 4'-0" x 2'-8"

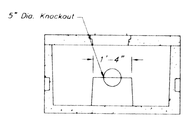
NOTES
1. Concrete: 4,000 P.S.I. Minimum Strength @ 28 Days
2. Steel Reinforcement: ASTM A 615, Grade 60
3. Cover to Steel: 1" Minimum
4. Design Loading - HS20



PLAN VIEW



SECTION A-A



SECTION B-B

NO.	DATE	REVISION	BY

SHEET TITLE: DETAIL PLAN
PROJECT NO.: 03.081
SCALE: 1"=20'
DATE: 7/24/03
PROJECT: PREPARED FOR: SEEKONK SWIM CLUB, DAVIS STREET - SEEKONK, MASSACHUSETTS
DRAWN BY: RAH
CHECKED BY: RSL
FILENAME: 03081S1_REV

COMMONWEALTH OF MASSACHUSETTS
L. ROBERT SMITH
No. 25395
REGISTERED PROFESSIONAL ENGINEER

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS - SURVEYORS
EAST PROVIDENCE RHODE ISLAND

2 of 2 SHTS

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
400 NORTH BROADWAY
EAST PROVIDENCE, RI 02914-2066