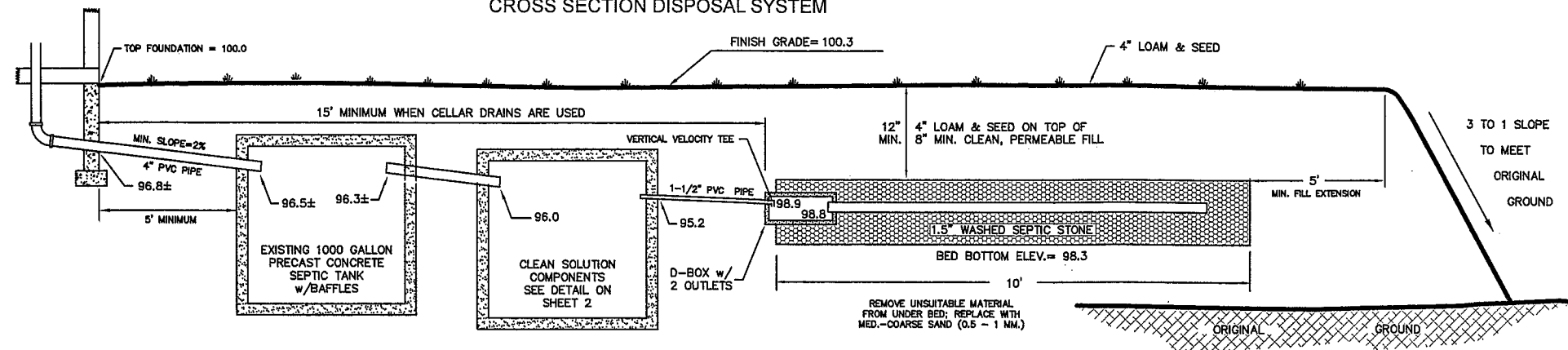
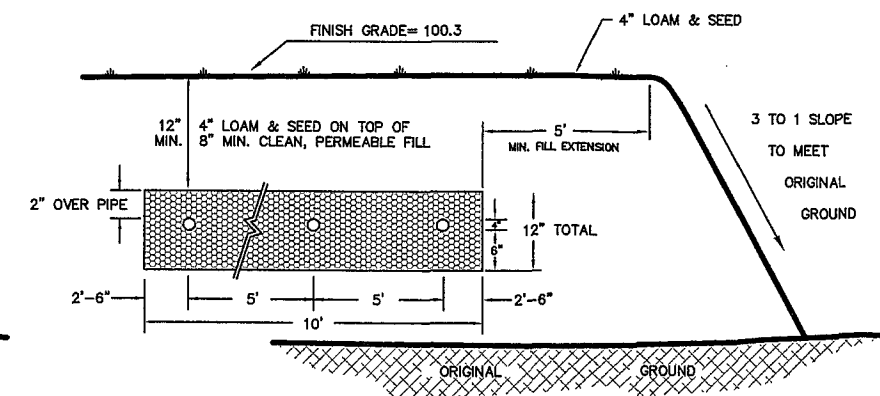


CROSS SECTION DISPOSAL SYSTEM



END VIEW

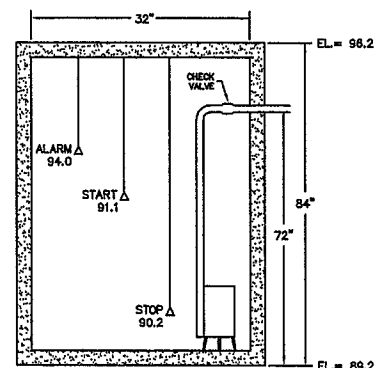


PUMP SPECIFICATIONS

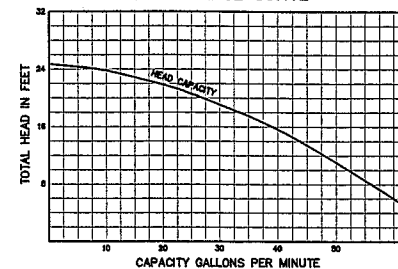
MAKER: HYDROMATIC, SOLD BY ADVANCE PUMP & FILTER Co.
 MODEL: HYDROMATIC OSP33, SUBMERSIBLE EFFLUENT PUMP
 CAPACITY: 80 GPM, HEAD TO 25 FT, 5/8" SOLID HANDLING, 1/3 HP, 1 PH 115V

DOSAGE RATE

DESIGN FLOW	450 GPD
DOSAGE RATE	5 Times/Day
DOSAGE VOLUME	90 Gal/Dose
OPERATING TIME	1.7 Min/Dose
TOTAL HEAD	9.7 FT
PUMP CAPACITY	52 GPM



PERFORMANCE CURVE



LEACH BED REQUIREMENTS

PERCOLATION RATE: 1" PER 8 MINUTES @ 12"
 NUMBER OF BEDROOMS: 3 (THREE)
 HYDRAULIC LOADING: 150 GPD/BEDROOM = 450 GPD
 SYSTEM AREA REQUIRED: 100 Sq.Ft.
 SYSTEM AREA PROVIDED: 10' x 10' = 100 Sq.Ft.

DESIGN INTENT

THE INTENT OF THIS DESIGN IS TO MAINTAIN AT LEAST 2 FEET ABOVE THE SEASONAL HIGH WATER TABLE AND 4 FEET ABOVE LEDGE OR IMPERMEABLE SUBSTRATUM BY CONSTRUCTING THE BED BOTTOM OF THE EFFLUENT DISPOSAL AREA AT ELEVATION 102.0 WHICH IS APPROXIMATELY 0.2 FEET ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA.

GENERAL NOTES

THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY.
 ANY DISCREPANCY BETWEEN THESE PLANS AND THE FIELD CONDITIONS IS TO BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION.
 THE SEPTIC SYSTEM IS NOT DESIGNED TO HANDLE A GARBAGE DISPOSAL UNIT.
 SEPTIC TANKS SHALL HAVE INLET AND OUTLET BAFFLES INSTALLED AND BE WATER TIGHT. ALL JOINTS, INLETS, OUTLETS, ETC. TO BE SEALED WITH NON-SHRINK MORTAR OR HAVE WATER TIGHT NEOPRENE GASKET SEALS CAST INTO THE CONCRETE BY THE MANUFACTURER.
 THERE ARE NO SURFACE WATERS WITHIN 125 FEET OF THE PROPOSED EDA. THERE ARE NO POORLY DRAINED SOILS WITHIN 125 FEET AND NO VERY POORLY DRAINED SOILS WITHIN 125 FEET OF THE PROPOSED EDA AS DELINEATED BY ADAM R. FOGG, DESIGNER No. 1377 PER Env-Wq 1014.03.
 LEACH LINES TO BE LAID LEVEL AND INSTALLED IN ACCORDANCE WITH Env-Wq 1017.05 AND Env-Wq 1017.01.
 SEPTIC STONE SHALL BE CLEAN, UNIFORMLY-SIZED WASHED CRUSHED STONE, WASHED ROCK, OR SIMILAR AGGREGATE, 1.5 INCH, FREE OF FINES, 0.75 INCHES TO 1.5 INCHES, IN ACCORDANCE WITH Env-Wq 1016.04.
 THE INSTALLED SYSTEM SHALL BE LEFT EXPOSED UNTIL INSPECTED BY A REPRESENTATIVE OF THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES.
 SYSTEM SHALL BE REBUILT IN PLACE SHOULD FAILURE OCCUR.
 THIS PLAN CONFORMS TO ALL APPLICABLE LOCAL SEPTIC SYSTEM ORDINANCES AND REGULATIONS AS APPROVED AND STAMPED BY THE LOCAL AUTHORITY.

LEGEND:

- 102 ——— 2' CONTOUR LINE
- 102 --- PROPOSED CONTOUR
- LOT LINE SEPTIC SETBACK
- WETLAND/TIDAL SEPTIC SETBACK
- POORLY DRAINED SOIL
- ⊙ EXISTING WELL
- ⊙ TEST PIT
- ⊙ PERCOLATION TEST
- ⊙ TREE TO REMAIN

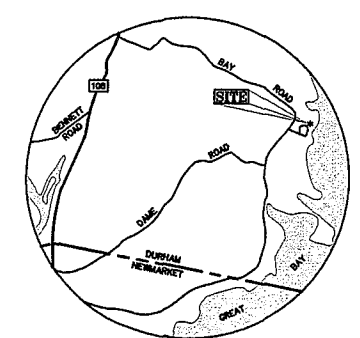
TEST PIT DATA

WITNESSED BY TOM JOHNSON, COO

TEST PIT 1	TEST PIT 2
JUNE 2, 2004 BROWN (10YR 4/3) FINE SANDY LOAM; FRAGILE; GRANULAR 4" LIGHT OLIVE BROWN (2.5Y 5/4) SILT CLAY; FRAGILE; GRANULAR (FILL) 28" DARK BROWN (10YR 3/3) FINE SANDY LOAM; FRAGILE; GRANULAR 32" LIGHT OLIVE BROWN (2.5Y 4/3) SILT LOAM; FRAGILE; BLOCKY NO RESTRICTIVE LAYER OBSERVED NO REFUSAL OBSERVED S.H.W.T. OBSERVED AT 32" NO WATER OBSERVED	APRIL 30, 2013 YELLOWISH BROWN (10YR 5/8) SANDY GRAVEL; FRAGILE; GRANULAR 22" LIGHT OLIVE BROWN (2.5Y 5/4) SILT CLAY; FRAGILE; GRANULAR 60" RESTRICTIVE LAYER AT 22" NO REFUSAL OBSERVED S.H.W.T. OBSERVED AT 22" NO WATER OBSERVED

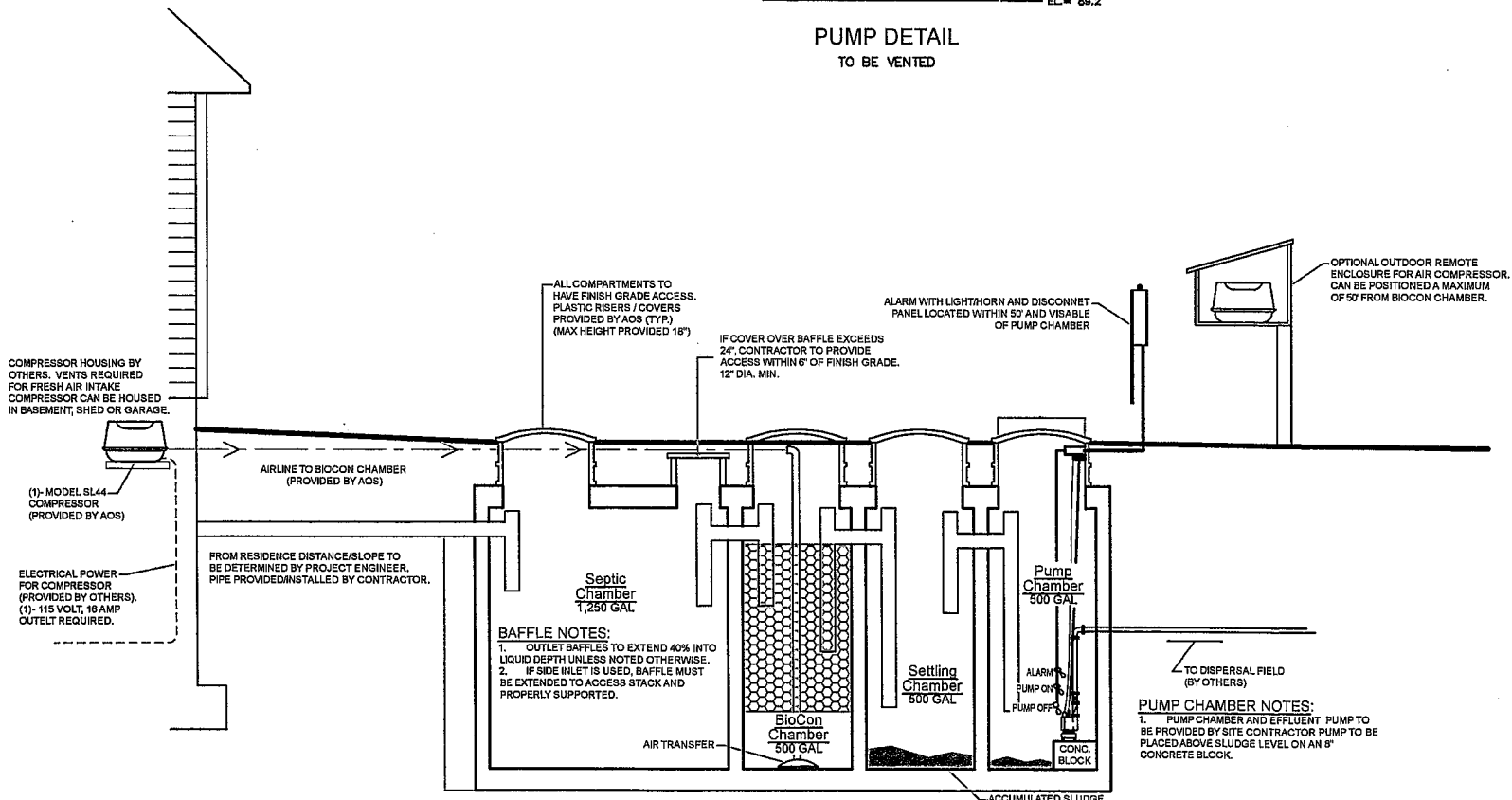
SOIL TYPE: HdC: Hollis-Charlton very rocky fine sandy loam
 Soil Survey of Strafford County, New Hampshire sheet 34

LOCATION PLAN



SUBSURFACE SEPTIC DESIGN

OWNER: MILDRED F. PENHALE REVOCABLE TRUST
 15 EDGERLY GARRISON ROAD
 DURHAM, NH 03824
 LOT ADDRESS: 15 EDGERLY GARRISON ROAD
 DURHAM, NH
 SUBDIVISION: NHDES APPROVAL No. 889 & 7528
 TOWN INFO: TAX MAP 12, LOT 16-14 1.3 Ac.±
 REGISTRY OF DEEDS: ROCKINGHAM BOOK 1999, PAGE 292



Septic/BioCon/Settling Tank and Pump Chamber
 2,750 GAL 4-Compartment Tank
 (15'0" L x 6'8" W x 7'0" H)

MAY 3, 2013
 CAD FILE: 04118-2
 Sheet 1 of 2

