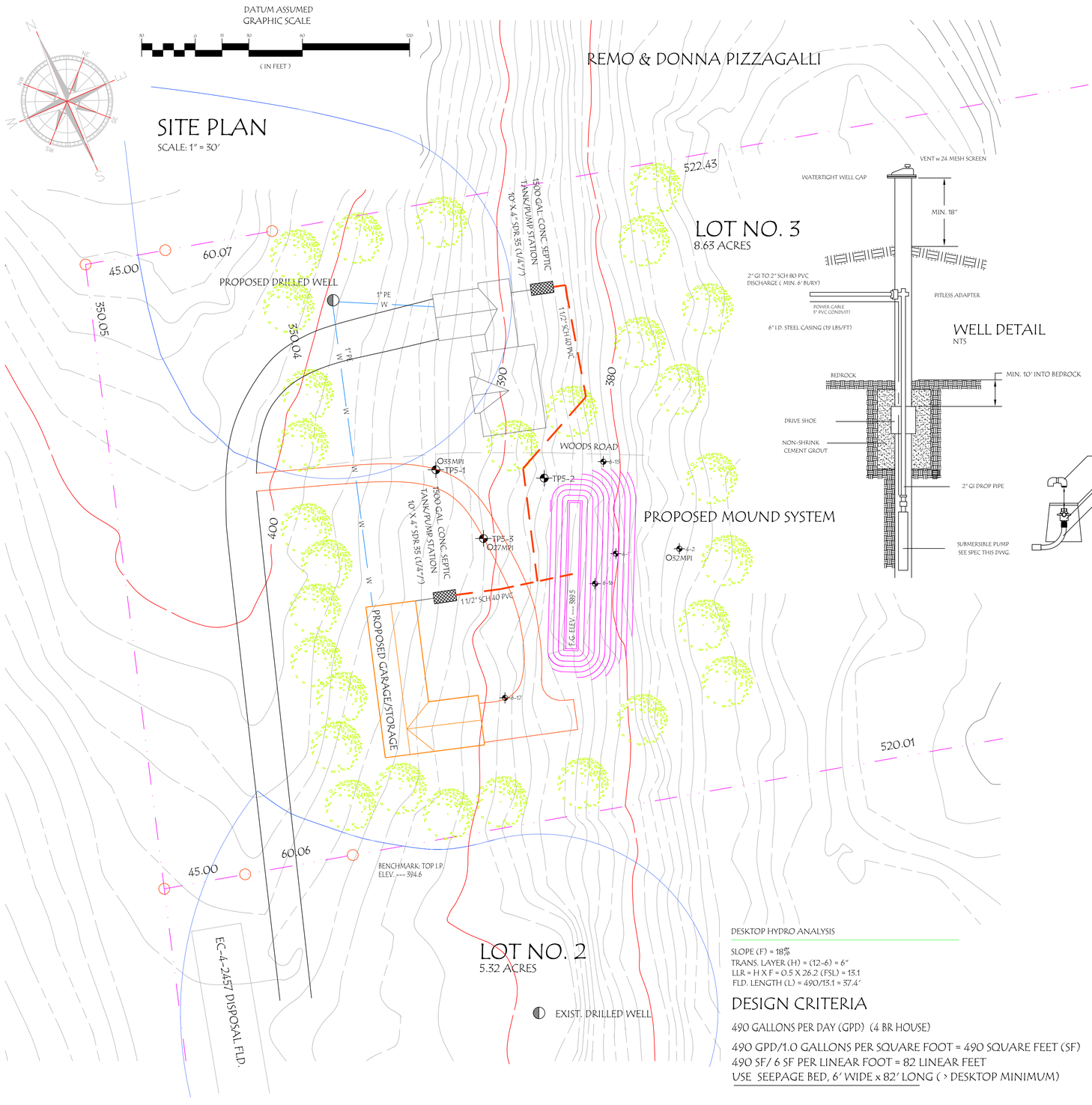
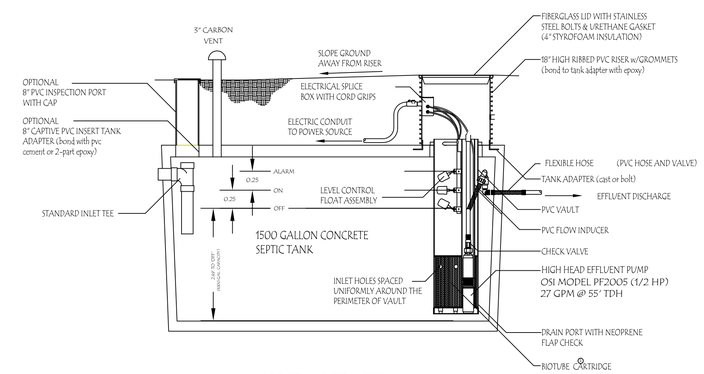


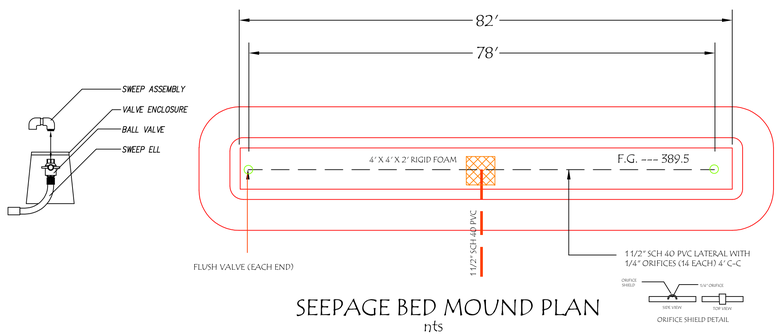
STEP (SEPTIC TANK EFFLUENT PUMP) SYSTEM

PUMP COMPONENTS: WASTEWATER TECHNOLOGIES, 895-2401/869-5219

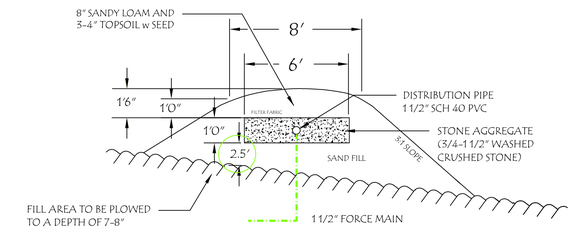


SIDE VIEW - TYPICAL TANK

CONTROL PANEL:
ORENCO S1 EOCT NEMA X ENCL.



SEEPAGE BED MOUND PLAN
nts



SEEPAGE BED MOUND SYSTEM
nts

DESKTOP HYDRO ANALYSIS

SLOPE (F) = 18%
TRANS. LAYER (H) = (12-6) = 6"
LLR = H X F = 0.5 X 26.2 (FSL) = 13.1
FLD. LENGTH (L) = 490/13.1 = 37.4'

DESIGN CRITERIA

490 GALLONS PER DAY (GPD) (4 BR HOUSE)

490 GPD/1.0 GALLONS PER SQUARE FOOT = 490 SQUARE FEET (SF)
490 SF/ 6 SF PER LINEAR FOOT = 82 LINEAR FEET
USE SEEPAGE BED, 6' WIDE x 82' LONG (> DESKTOP MINIMUM)

MOUND SYSTEM CONSTRUCTION SPECIFICATIONS

1. NO CHANGE FROM THESE PLANS WILL BE ALLOWED WITHOUT SECURING AN AMENDMENT TO THE APPROVAL.

2. ARRANGEMENTS MUST BE MADE TO HAVE THE SYSTEM INSPECTED DURING SEVERAL PHASES OF THE CONSTRUCTION. A LETTER OF COMPLETION WILL NOT BE ISSUED UNLESS THE INSPECTION(S) HAVE BEEN PERFORMED.

3. CONSTRUCTION OF THE MOUND WILL OCCUR AS FOLLOWS:

A. ALL TREES WITHIN 15' OF THE MOUND "FOOTPRINT" SHALL BE CUT FLUSH WITH THE GROUND.
B. THE FORCE MAIN SHALL BE INSTALLED TO A POINT BELOW THE MIDDLE OF THE MOUND WITH A RISER INSTALLED (EQUIPPED WITH A 4' SF THRUST BLOCK AT THE FITTING (ELBOW). THE FORCE MAIN WILL BE PRESSURE TESTED AT 50 PSI (HIGHEST POINT) FOR 2 HOURS.
C. THE ENTIRE FILL SITE WILL BE PLOWED TO A DEPTH OF 8-10 INCHES WITH A MOLD BOARD PLOW CASTING THE FURROWS UPHILL. FILLING IS TO COMMENCE IMMEDIATELY.
D. "MOUND" SAND TO CONFORM TO SECTION 1-1916.1 OF THE EPA, CHAPTER 1 SPECIFICALLY TYPES 1, 2 OR 3 (6/27/2000 EDITION).
E. AFTER PLACEMENT OF THE SAND, THE TRENCHES WILL BE CONSTRUCTED AS SHOWN ON THE DETAILS. THE TRENCHES SHALL BE LEVEL, THEN STONE PLACED TO A DEPTH OF 6 INCHES FOLLOWED BY THE INSTALLATION OF THE LATERALS. PIPES WILL BE CONNECTED TO THE MANIFOLD BUT NOT GLUED
F. AFTER SECURING THE LATERALS (I.E. STAKES) AND ACTUATING THE PRESSURE DEVICE (PUMP OR SIPHON), A PRESSURE DISTRIBUTION TESTS WILL BE PERFORMED WITH THE LATERAL ORIFICES FACING UP. THE RESULTANT WILL BE MEASURED AND NO MORE THAN 15 % DIFFERENTIAL WILL BE ALLOWED BETWEEN THE MANIFOLD AND ANY DISTAL END OF THE LATERALS.
G. AFTER SUCCESSFUL COMPLETION OF THE TEST, THE ORIFICES WILL BE TURNED DOWN, THE LATERALS GLUED, AND THE REMAINING STONE SHALL BE INSTALLED AND COVERED WITH FILTER FABRIC. ADDITIONAL SAND FILL TOPSOIL WILL BE PLACED ON THE MOUND TO PROVIDE THE REQUIRED DEPTH - COVER ON THE TOP AND SIDES. THE ENTIRE MOUND WILL BE TOPSOILED AND SEEDED FOLLOWING COMPLETION OF THE FILLING AND GRADING.

4. THE SEPTIC TANK AND LIFT STATION/DOSING TANK WILL BE FILLED WITH WATER FOR 24 HOURS. NO LOSS WILL BE ALLOWED. THE TANKS PROVIDED ARE NOT DESIGNED FOR TRAFFIC LOADING.

5. THE LANDOWNER IS RESPONSIBLE FOR ENSURING THAT THE DESIGN LOAD OF THE SYSTEM IS NOT EXCEEDED. FURTHER, THE OWNER IS REQUIRED TO PUMP THE SEPTIC TANK AND OTHER TANKAGE EVERY THREE (3) YEARS.

REMO PIZZAGALLI

MUTTON HILL ROAD LOT NO. 3 CHARLOTTE, VERMONT
WATER AND WASTEWATER DETAILS
DRAWING NO. 2 OF 2 DATE: 06/10/2017 REV 05/23/2018

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