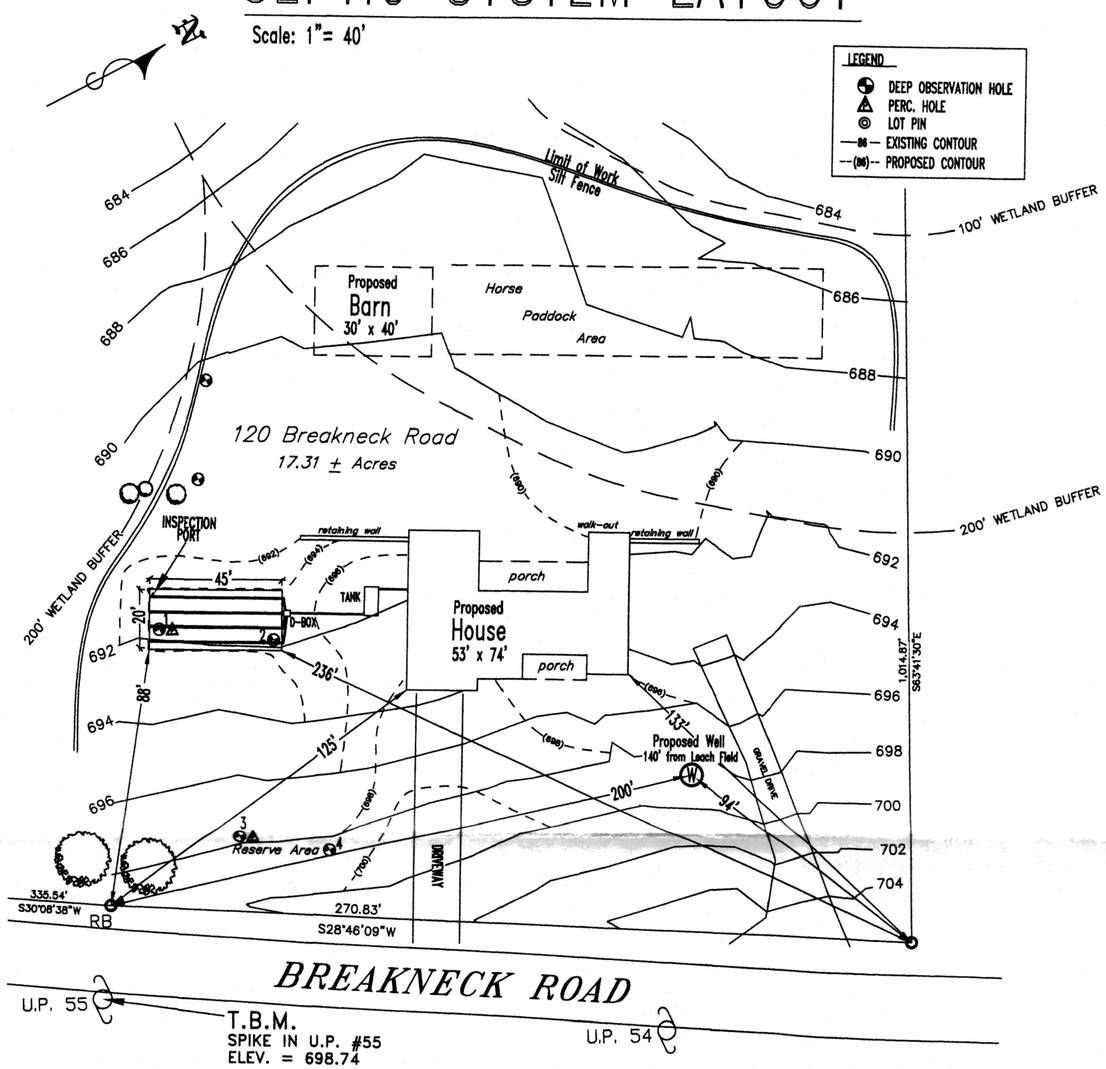
SEPTIC SYSTEM LAYOUT

Scale: 1"= 40'



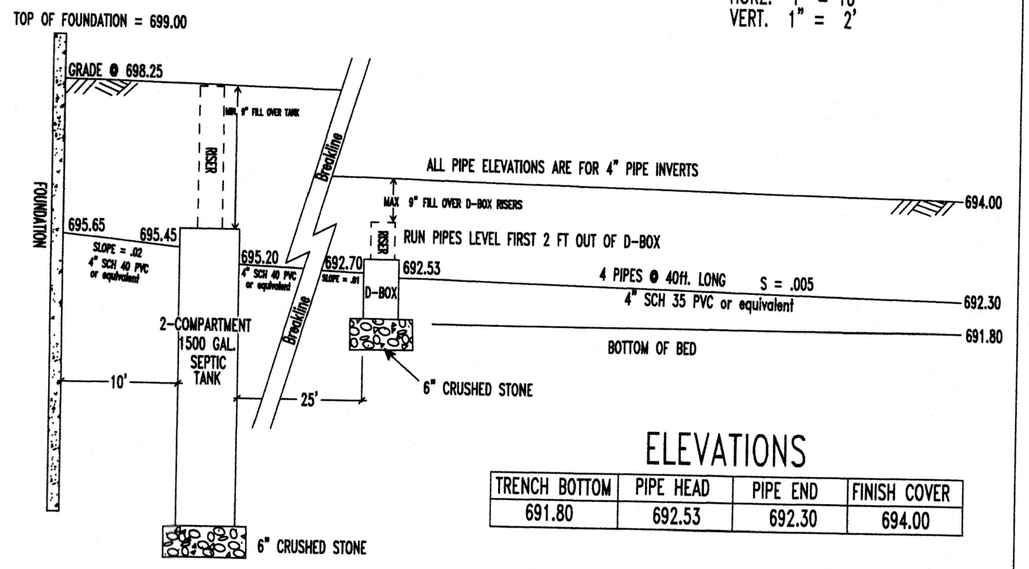
NOTES

1) SEPTIC TANK SHALL HAVE INLET AND OUTLET TEES.
2) OUTLET TEE SHALL HAVE AN EFFLUENT FILTER.
3) D-BOX SHALL HAVE MINIMUM 12" INSIDE WIDTH AND 6" SUMP BELOW OUTLET INVERT.
4) ACCESS MANHOLES TO SEPTIC TANK SHALL BE WITHIN 6" OF FINISHED GRADE.
5) D-BOX OUTLET PIPES SHALL BE LEVEL A MINIMUM OF 2 FEET.
6) END CAPS ON PIPES, FOR NON-VENTED SYSTEMS.
7) ELEVATIONS ARE TO INVERTS UNLESS NOTED.
8) NO OTHER WELLS OR WETLANDS OBSERVED WITHIN 200' OF SEPTIC SYSTEM.
9) ALL LOAM, SUBSOIL AND OTHER IMPERVIOUS MATERIAL SHALL BE REMOVED WITHIN 5 FEET OF LEACHING FACILITY.
10) FILL WITHIN 5 FEET OF LEACHING FACILITY SHALL MEET SPECIFICATIONS OF TITLE V, 15.255(3).
11) FINISH GRADE ABOVE AND ADJACENT TO SYSTEM SHALL SLOPE AT LEAST 2% TO PREVENT ACCUMULATION OF SUBSURFACE WATER.
12) DISTRIBUTION BOX SHALL HAVE AN INLET TEE OR BAFFLE EXTENDING TO ONE INCH ABOVE THE OUTLET INVERT ELEVATION PROVIDED TO DISSIPATE THE VELOCITY OF THE INFLUENT.
13) SEPTIC TANK SHOULD BE INSPECTED ANNUALLY.
14) ALL PIPES SHALL BE EITHER ASTM D-3034 (SDR35), ASTN D-2665 (SCHEDULE 40) OR AS NOTED.
15) ALL WASTEWATER SHALL FLOW INTO THE SEPTIC TANK. WITH THE EXCEPTION OF WATERSOFTENERS/CONDITIONERS.
16) LOT LINES PLOTTED FOR SEPTIC LOCATION ONLY. PLOT PLAN IS NOT AN ACTUAL SURVEY.
17) NO CONSTRUCTION OF PERMANENT STRUCTURE ALLOWED OVER SEPTIC SYSTEM.
18) CALL 1-888-DIG-SAFE BEFORE STARTING SITE WORK.
19) MAGNETIC TAPE REQUIRED OVER ALL SYSTEM COMPONENTS.
20) METAL REBAR REQUIRED AT DISTRIBUTION BOX AND FOUR CORNERS OF BED.
21) GAS BAFFLE REQUIRED BETWEEN COMPARTMENTS OF SEPTIC TANK.
22) MANHOLE COVER OVER TANK OUTLET TEE SHALL BE RAISED TO FINISHED GRADE.

SEPTIC SYSTEM PROFILE

TBM @ SPIKE IN U.P. #55 = 698.74

SCALE:
HORZ. 1" = 10'
VERT. 1" = 2'



ELEVATIONS

TRENCH BOTTOM	PIPE HEAD	PIPE END	FINISH COVER
691.80	692.53	692.30	694.00

SITUATION:

NEW CONSTRUCTION OF SAS AT 120 BREAKNECK ROAD.
4 BEDROOM DWELLING, NO GARBAGE GRINDER.
PERC RATE AT HOLE 2 OF 9.6 MINUTES PER INCH. DOP = 50" TO BOTTOM
PERC TEST DATE: 06/29/22
BOARD OF HEALTH WITNESS: KEN LACEY
SOIL EVALUATOR: L.S. JALBERT

4 BEDROOMS @ 110 GAL
TOTAL = 440 GAL

ESTIMATED AVERAGE DAILY FLOW BASED ON 1995 TITLE 5 REGULATIONS

LEACHING SYSTEM IS TO CONSIST OF A 20 FT. X 45 FT. LEACHING BED, WITH 4 DISTRIBUTION LINES, WITH A MINIMUM OF 6 INCHES OF STONE THROUGHOUT BED.

DESIGN CALCULATIONS:

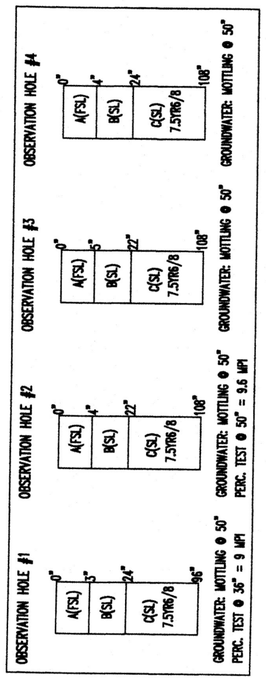
SOIL CLASS II – 10 MIN./IN = 0.60 GAL/FT^2

BOTTOM AREA: 20' x 45' = 900 FT^2
SIDE AREA: NOT ALLOWED IN BEDS

TOTAL = 900FT^2 = 540 GALLONS CAPACITY
540 GAL. DESIGN > 440 GAL. REQUIRED

WELL NOTES:

1) THERE ARE NO OTHER POTENTIAL SOURCES OF POLLUTION OBSERVED WITHIN 200 FEET OF THE PROPOSED WELL.
2) THERE ARE NO WASTE SITES OBSERVED WITHIN 500 FEET OF THE PROPOSED WELL.
3) THE WELL IS NOT LOCATED IN THE 100 YEAR FLOOD ZONE.
4) THERE ARE NO SUBSURFACE FUEL STORAGE TANKS OBSERVED WITHIN 200 FEET OF THE PROPOSED WELL.
5) THERE ARE NO WETLANDS OR FLOOD PLAINS WITHIN 200' OF WELL.
6) THERE ARE NO UTILITY RIGHT OF WAYS ON PROPERTY.

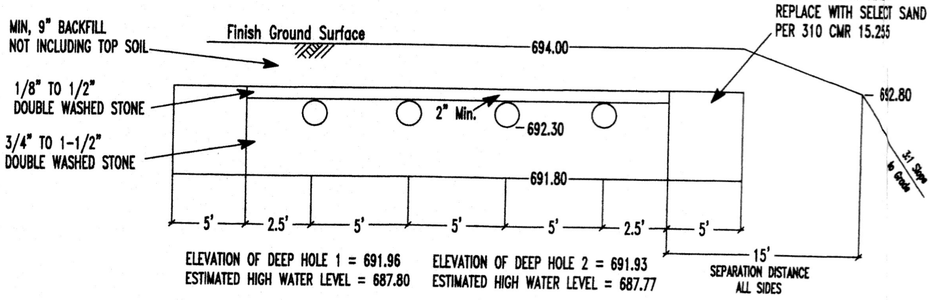


ALL SOIL ABSORPTION SYSTEMS SHALL HAVE A MINIMUM OF ONE INSPECTION PORT CONSISTING OF A PERFORATED FOUR INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN THREE INCHES OF FINISH GRADE.

CROSS SECTION OF LEACHING BED @ PIPE END

DO NOT SCALE

TBM @ SPIKE IN U.P. #55 = 698.74



ELEVATION OF DEEP HOLE 1 = 691.96
ESTIMATED HIGH WATER LEVEL = 687.80

ELEVATION OF DEEP HOLE 2 = 691.93
ESTIMATED HIGH WATER LEVEL = 687.77

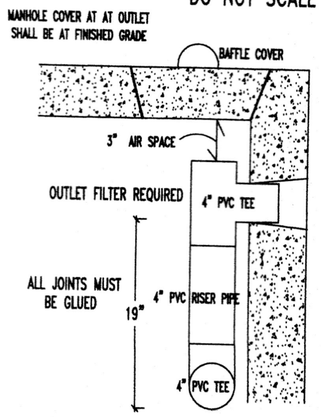
ELEVATION OF DEEP HOLE 3 = 697.84
ESTIMATED HIGH WATER LEVEL = 693.68

ELEVATION OF DEEP HOLE 4 = 698.61
ESTIMATED HIGH WATER LEVEL = 694.45

SEE ATTACHED SOIL LOG

GAS BAFFLE DETAIL

DO NOT SCALE



SYSTEM TO BE CONSTRUCTED IN COMPLIANCE WITH 310 CMR 15.000

ALIENGENA

120 Breakneck Road
Sturbridge, MA

SCALE: AS NOTED	DRAWING NUMBER:	DESIGNED BY: NMJ
DATE: 28SEP22	Aliengena-Breakneck REV2.dwg	DRAWN BY: HOP
SECOND REVISION: 03DEC22		
APPROVED BY:		

COMMONWEALTH OF MASSACHUSETTS
PAUL CAMPAGNA No. 972 REGISTERED
SANITARIAN

12/5/2022

J & P Engineering Services, Belchertown, MA (413) 896-6607