



LOCUS MAP
NOT TO SCALE

NOTES:

AN EFFLUENT FILTER IS TO BE INSTALLED IN THE SEPTIC TANK OUTLET TEE. THE FILTER SHOULD BE MAINTAINED, AT A MINIMUM, ON AN ANNUAL BASIS OR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

THERE SHALL BE WRITTEN NOTICE PROVIDED IN A CONSPICUOUS PLACE NEAR THE BUILDING SEWER OR SOME OTHER METHOD TO SHOW THAT AN OUTLET TEE FILTER IS INSTALLED TO ENSURE THAT THE OUTLET TEE FILTER IS CLEANED WHEN THE SEPTIC SYSTEM TANK IS SERVICED.

PROPERTY LINES TAKEN FROM A PLAN ENTITLED, "PLAN OF LAND IN LITTLETON, MASS PREPARED FOR HARTWELL HILL HOMES, LLC" DATED APRIL 2023 BY DAVID E. ROSS ASSOCIATES, INC. (ROBERT T. CONWAY, PLSS65614)

NO PLASTIC RISERS, FRAMES, OR COVERS ARE ALLOWED ON PROPOSED SEPTIC TANKS OR DISTRIBUTION BOXES.

SCHEDULE OF ELEVATIONS

	PROPOSED	AS-BUILT
TOP CONCRETE FOUNDATION	235.0	
INVERT AT FOUNDATION	228.60	
INVERT TANK INLET	228.30	
INVERT TANK OUTLET	228.05	
TOP SEPTIC TANK	229.4±	
INV. "D" BOX INLET	227.97	
INV. "D" BOX OUTLET	227.80	
GROUNDWATER OFFSET REQUIRED	5'	
GROUNDWATER OFFSET UTILIZED	5'	

TRENCH ELEVATIONS

TRENCH NUMBER	TOP STONE	HIGH INV. ELEV.	LOW INV. ELEV.	BOTTOM STONE
1	228.30	227.80	227.55	226.55
2	228.00	227.50	227.25	226.25
3	227.70	227.20	226.95	225.95

DESIGN CRITERIA

GARBAGE GRINDERS - NOT PERMITTED

PERC. TESTS: PERFORMED BY DANIEL WOLFE, D.E.R.A., INC. WITNESSED BY JIM GARREFFI, N.A.B.O.H.

PERC. #	RATE (M/D)	ELEVATION	DEPTH	DATE
1121-A	<2	229.8	55"	11/24/21
1121-B	<2	228.2	55"	11/24/21

FLOWS: 4 BEDROOMS AT 110 GPD = 440 GPD (330 GPD MIN.)

SEPTIC TANK REQUIRED: (1500 GAL. MIN.) 440 GPD X 2.0 = 880 GAL. TANK

LEACHING AREA PROVIDED:

A. BASIS 2 MIN./IN. PERCOLATION RATE

B. SIDEWALL AREA PROVIDED 300 S.F.

C. BOTTOM AREA PROVIDED = 300 S.F.

D. TOTAL G.P.D. PROVIDED 444

E. TOTAL SF. PROVIDED 600

SYSTEM IN FILL ☒ REQUIRED ☐ NOT REQUIRED

IF ANY PORTION OF THE PROPOSED LEACHING AREA IS LOCATED ABOVE EXISTING GRADE OR WITHIN TOPSOIL, PEAT OR OTHER UNSUITABLE OR IMPERVIOUS SOIL LAYER, THEN THE PLACEMENT OF FILL IS REQUIRED. PRIOR TO THE PLACEMENT OF FILL, ALL UNSUITABLE OR IMPERMEABLE SOILS SHALL BE EXCAVATED TO A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL. FILL MATERIAL SHALL BE SELECT, ON-SITE OR IMPORTED SOIL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT SOIL CLASSES SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED IN THE #4 SIEVE. SIEVE ANALYSES SHALL ALSO BE PERFORMED ON THE FRACTION OF FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 MM	100%
# 50	0.30 MM	10%-100%
#100	0.15 MM	0%-20%
#200	0.075 MM	0%-5%

WETLAND PROTECTION ACT (C131 S40)

PRIOR TO INITIATING ANY ALTERATIONS (REMOVAL OF VEGETATION, EXCAVATIONS, GRADING, ETC.) WITHIN 100' OF WETLANDS (OR THE BROOKS, SWAMPS, ETC.) OR WITHIN 200' OF AN AREA SUBJECT TO THE RIVER'S ACT (PERENNIALY FLOWING RIVER, BROOK OR STREAM), A REQUEST FOR DETERMINATION OF APPLICABILITY OR A NOTICE OF INTENT UNDER THE WETLANDS PROTECTION ACT (310 CMR 10.00) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. LOCAL BYLAWS MAY ALSO APPLY.

INSPECTION PORT
NOT TO SCALE

REVISIONS

DATE	DESCRIPTION
5/2/22	Original endorsement
7/25/22	Added Effluent Filter and access
3/28/23	Revised plan note

SHEET TITLE:
SEWAGE DISPOSAL SYSTEM

DESIGNED FOR:
DUTCHCO BUILDERS, LLC

ADDRESS:
HARTWELL AVENUE
LITTLETON, MA

LOT NO.: 1

ASSESSOR MAP: R17

ASSESSOR PARCEL: Portion of Parcel 3

DAVID E. ROSS ASSOCIATES, INC.
CIVIL ENGINEERS - LAND SURVEYORS
ENVIRONMENTAL CONSULTANTS

6 Lancaster County Road
P.O. Box 795
Harvard, MA 01451-0795

978-772-6232
FAX 978-772-6258
www.davidross.com

SCALE: 1"=20'

DATE: MAY, 2022

REF.: L-14520, L-14517

PLAN NO.: L-14542

JOB NO.: 33895

SHEET NO.: 1 of 1