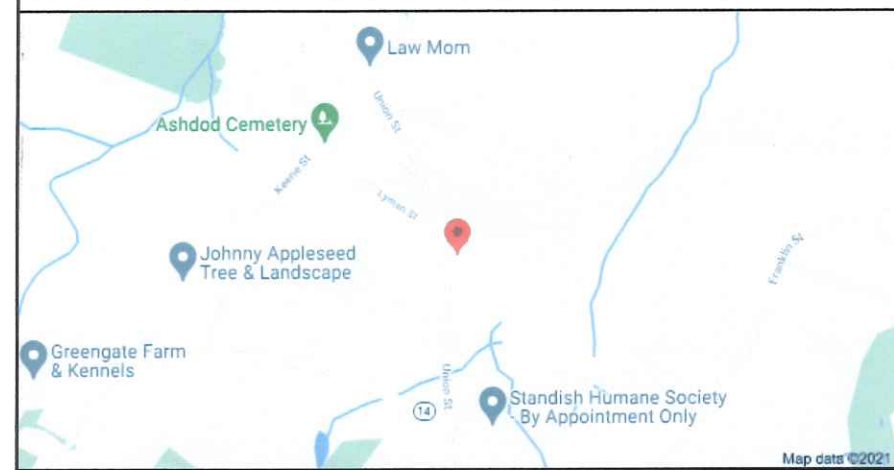


LOCUS PLAN (NOT TO SCALE)



ADJUTTER WATER SUPPLY

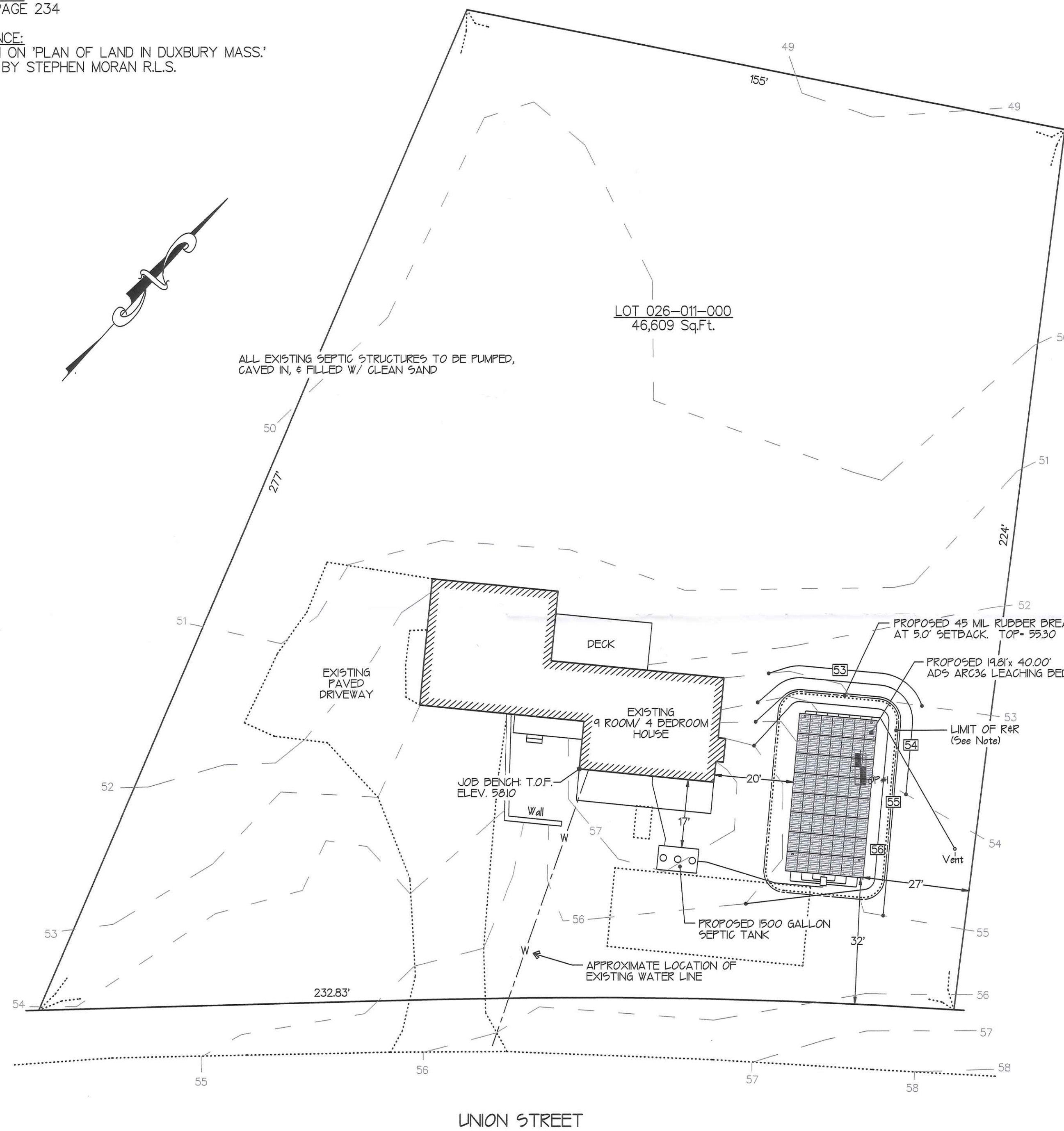
PARCEL #	STREET ADDRESS	BLDG	WATER SUPPLY
028-010-001	607 UNION STREET	Y	TOWN WATER
028-084-000	606 UNION STREET	Y	TOWN WATER
028-083-001	622 UNION STREET	Y	TOWN WATER

**LOCAL UPGRADE VARIANCE REQUESTED:**  
 15.405 (11)-A VARIANCE TO ALLOW USE OF SIEVE ANALYSIS IN PLACE OF PERC TEST DUE TO HIGH WATER

**LOCAL VARIANCE REQUESTED:**  
 11.1 (1A)-A REDUCTION IN THE SEPARATION BETWEEN THE BOTTOM OF THE SAs AND THE MAXIMUM SEASONAL HIGH WATER TABLE FROM 5.0' TO 4.0'

DEED REFERENCE:  
 BOOK 41356 PAGE 234

PLAN REFERENCE:  
 LOCUS SHOWN ON 'PLAN OF LAND IN DUXBURY MASS.'  
 DEC. 7, 2021 BY STEPHEN MORAN R.L.S.



IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL DOMESTIC WASTE IS PLUMBED INTO THE SEPTIC TANK AS SHOWN.

THERE ARE NO WETLANDS WITHIN 150' OF THE PROPOSED LEACHING FACILITY.

THE PROPOSED LEACHING IS NOT WITHIN A ZONE 1 OR ZONE 2 OF A PUBLIC WATER SUPPLY.

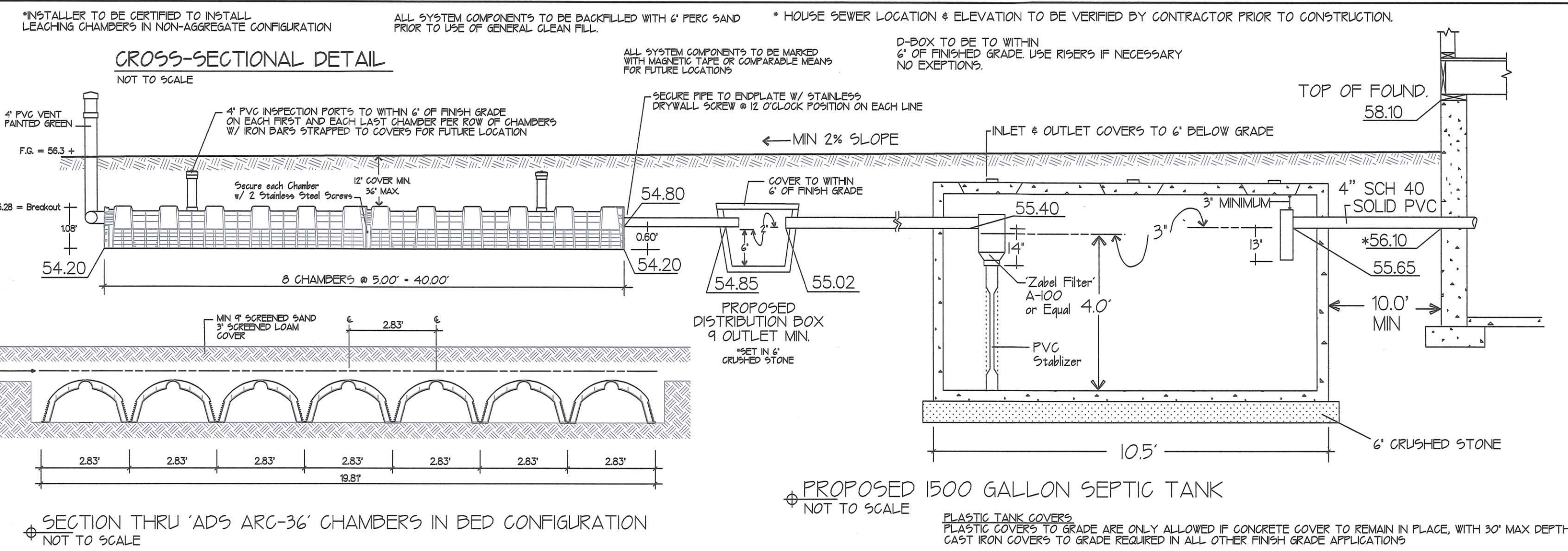
THERE ARE NO EASEMENTS OR RIGHTS OF WAY ON PROPERTY, OTHER THAN SHOWN.

THERE ARE NO POTABLE WELLS WITHIN 150 FEET OF THIS PROPOSED SYSTEM.

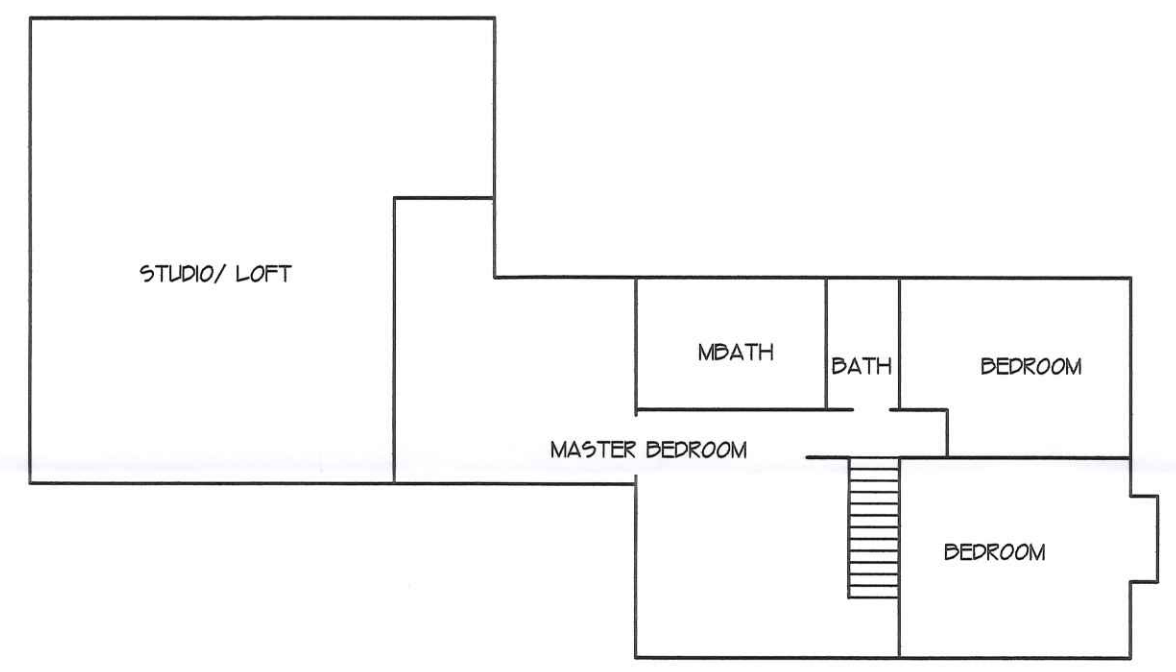
THERE ARE NO IRRIGATION WELLS WITHIN 100 FEET OF THIS PROPOSED SYSTEM.

THE PROPOSED LEACHING IS NOT WITHIN A FLOOD ZONE BASED ON FEMA FLOOD MAP.

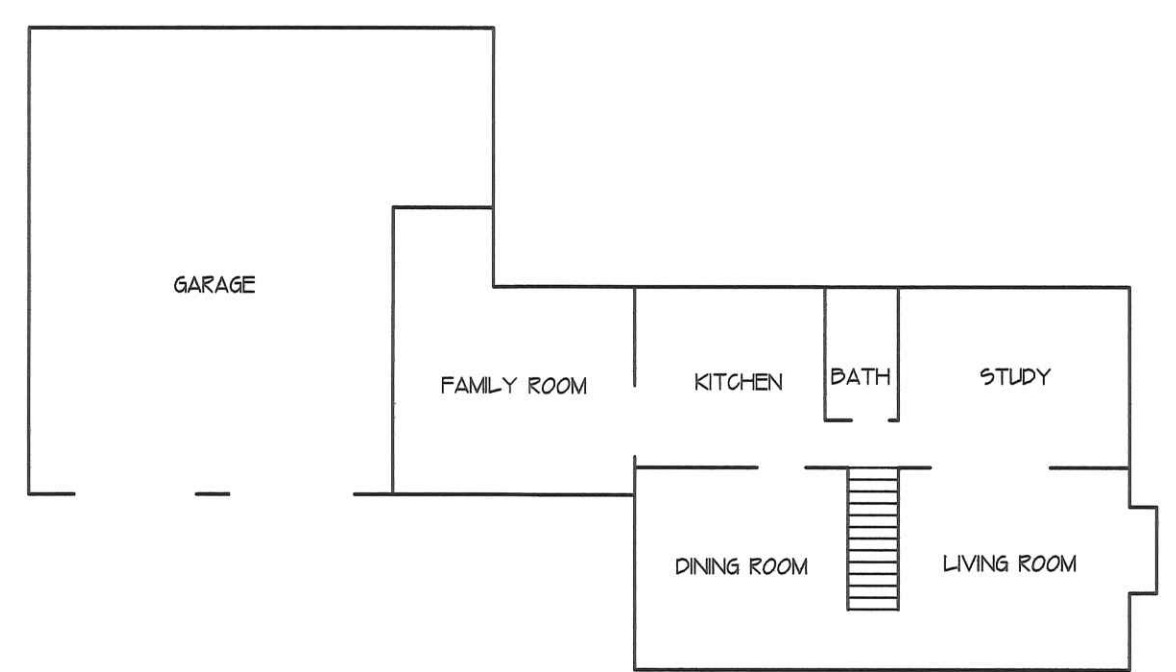
97 PROPOSED CONTOURS  
 97.3 EXISTING CONTOURS-To Remain  
 SPOT ELEVATIONS



**R&R NOTE**  
 NOTE: ALL IMPERVIOUS MATERIALS TO BE REMOVED FOR 5.0' AROUND PROPOSED LEACHING TO THE LAYER OF G- SANDLOAM - APPROXIMATE ELEVATION 50.5 AND REPLACED WITH CLEAN SAND IN ACCORDANCE WITH 310 CMR 15.255 (3)



SECOND FLOOR PLAN



FIRST FLOOR PLAN

I HEREBY CERTIFY THAT THERE ARE NO WELLS, OTHER THAN THOSE SHOWN, KNOWN OR REPORTED TO ME WITHIN 150 FEET OF THIS PROPOSED SYSTEM.

I CERTIFY THAT ON 9/4/96 I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.



Shayne R. McGlone R.S.  
 12.9.21

SOIL LOGS

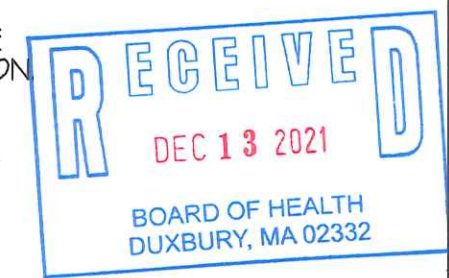
DATE: NOV. 4, 2021

PERFORMED BY:	WITNESSED BY:	PERCOLATION RATE:
SHAYNE P. MCGLONE SOL EVALUATOR	TRACY MAYO HEALTH AGENT	OP. #1 1" - 30 MINS. - ASSUMED

ELEV.	OPS. PIT #1	DEPTH	NOTES
54.0	FILL	0.0	SEASONAL HIGH WATER ELEVATION 50.2
52.2	LOAMY SAND 10yr 5/6	1.8 (22")	
50.5	SANDY LOAM 2 1/2 yr 4/5 Uncompacted	3.5 (42")	SIEVE SAMPLE ELEVATION RATE 1" - 30 MINS. - ASSUMED SOIL TYPE: CLASS 2 L.T.A.R. = 0.33 GPD/ SqFt.
50.2	Moist 2 1/2 yr Weeping	3.8 (46")	
46.0		8.0 (96")	

PROPOSED IN-LINE ELEVATIONS	DESIGN CALCULATIONS
TOP OF FOUNDATION 58.10	NUMBER OF BEDROOMS 4
INV AT HOUSE *56.10	Design for: 4 Bedrooms = 440 GPD.
INV INTO TANK 55.65	'ADS ARC 36' LEACHING CHAMBER BED Aggregate Free - Bed Configuration
INV OUT OF TANK 55.40	DAILY FLOW 440.00 GPD
INV INTO D-BOX 55.02	Min. Square Footage Required 440 gpd / 0.33 gpd/sf = 1334 SqFt. Min.
INV OUT OF BOX 54.85	Number of Chambers Required: 1334 SqFt. / 4.80 SqFt. per Linear Foot = 278 Lin Feet = 56 Chamber Units Required
INV INTO CHAMBERS 54.80	Chamber Units Provided = 56
BOTTOM OF CHAMBERS 54.20	(56x 5.00'x 4.80 = 1344 SqFt. - 443 GPD
SEASONAL HIGH WATER TABLE 50.2	
'BREAKOUT' ELEVATION 55.28	

- NOTES:**
- ALL LOCATIONS OF UTILITIES SHOWN ARE AS MARKED BY DIGSAFE AND ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
  - INSPECTIONS BY ENGINEER ARE TO BE AS FOLLOWS:  
 1- EXCAVATION INSPECTION- PRIOR TO PLACEMENT OF PERC SAND.  
 2- FINAL INSPECTION -FOLLOWING INSTALLATION OF PERC SAND AROUND INFILTRATORS BUT PRIOR TO BACKFILL OF SYSTEM  
 3- FINISH GRADE INSPECTION- FOLLOWING BACKFILL OF SYSTEM
  - BOARD OF HEALTH INSPECTIONS TO BE MADE AS REQUIRED BY TOWN.
  - IT IS THE RESPONSIBILITY OF THE INSTALLER TO GIVE NOTIFICATION FOR INSPECTIONS. FAILURE TO DO SO WILL RESULT IN NON-CERTIFICATION.
  - THIS PROPOSED SEPTIC SYSTEM IS NOT DESIGNED FOR THE USE OF A GARAGE GRINDER.
  - PROPERTY LINE DATA TAKEN FROM EXISTING DEEDS & RECORDS. THIS PLAN IS TO BE USED FOR 'SITE PLAN'/ SEPTIC INSTALLATION ONLY.
  - NO CHANGES ARE TO BE MADE IN THE FIELD WITHOUT THE APPROVAL OF THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
  - SEPTIC TANK SHOULD BE PUMPED AND FILTER CLEANED ANNUALLY.
  - SEPTIC SYSTEM IS NOT DESIGNED TO BE TRAVELED ON W/ HEAVY EQUIPMENT OR VEHICLES.



**MCGLONE ENTERPRISES INC.**  
 211 PEMBROKE ST. KINGSTON MASS.  
 781-585-8527

PLAN SHOWING  
 PROPOSED SEPTIC SYSTEM UPGRADE for:  
 MARY-ANNE GANLEY  
 617 UNION STREET, DUXBURY

DRAWN BY: S.P. MCGLONE	SCALE 1" = 20'	SHEET 1 OF 1
CHECKED BY:	DATE: DEC. 9, 2021	DRWG#