

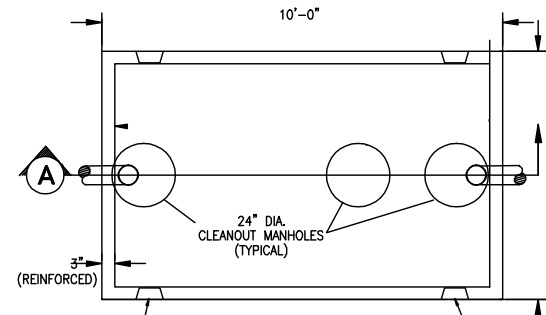
NOTES:

1. BENCHMARK TO BE SET WITHIN 50' OF THE PROPOSED LEACHING AREA PRIOR TO CONSTRUCTION.
2. THERE ARE NO EXISTING WELLS WITHIN 200' OF THE PROPOSED LEACHING AREA OTHER WISE SHOWN ON THE PLAN.
3. THERE ARE NO PROPOSED WELLS WITHIN 100' OF THE PROPOSED LEACHING AREA.
4. TEST HOLE ELEVATIONS FROM ON THE GROUND SURVEY.
5. EXISTING LOT IS SERVICED BY PUBLIC WATER.
6. LOT IS NOT IN THE AQUIFER PROTECTION DISTRICT, FLOOD PLAIN DISTRICT.
8. MAGNETIC TAPE TO BE PLACED ON TOP OF SEPTIC TANK, D-BOX AND ALL ACTIVE LINES IN THE PROPOSED LEACH FIELD.

LOCAL WAIVER REQUEST

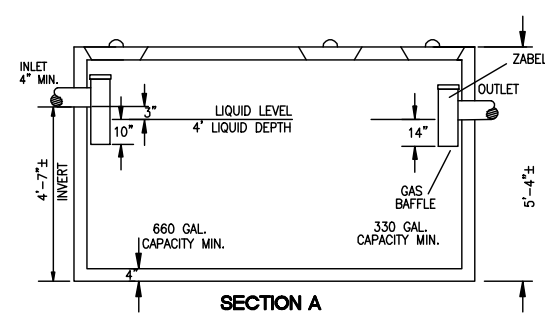
1. A WAIVER REQUEST FOR A SIEVE TEST TO BE PERFORMED INSTEAD OF PERC TEST.

KEY	
SEPTIC TANK	ST
DISTRIBUTION BOX	DB
EXISTING CONTOURS	---
PROPOSED CONTOURS	---
EXISTING ELEVATIONS	100.0
PROPOSED ELEVATIONS	100x0
BENCHMARK	B.M.
PUBLIC WATER	W
UNDERGROUND UTILITIES	U
PERC TEST HOLE	+
DEEP SOIL OBSERVATION HOLE	+
100' BUFFER LINE	B

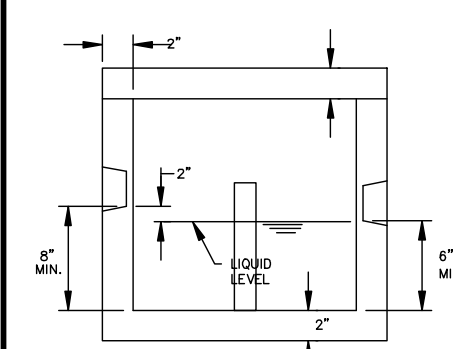


1500 GALLON (H-10)
PRE-CAST CONCRETE SEPTIC TANK
(SEE CONSTRUCTION NOTE 1)
N.T.S.

1. INLET & OUTLET TEES SHALL EXTEND TO CLEANOUT MANHOLES & SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC.
2. BUOYANCY CALCULATIONS REQUIRED FOR SEPTIC TANKS INSTALLED IN GROUNDWATER.



TANK TO CONFORM WITH ASTM STANDARD C1227-93	DEPTH OF OUTLET TEE BELOW FLOW LINE
LIQUID DEPTH	14 INCHES
INLET TEE	19 INCHES
5 FEET	24 INCHES
6 FEET	29 INCHES
7 FEET	34 INCHES
8 FEET	



(SEE CONSTRUCTION NOTE 1)
9 OUTLET D.B.
PRE-CAST CONCRETE
DISTRIBUTION BOX
W/ WATER TIGHT
COVER
(12' x 12' MIN. INSIDE
DIMENSION)

MAP#36, LOT 9A



Scott Miccile

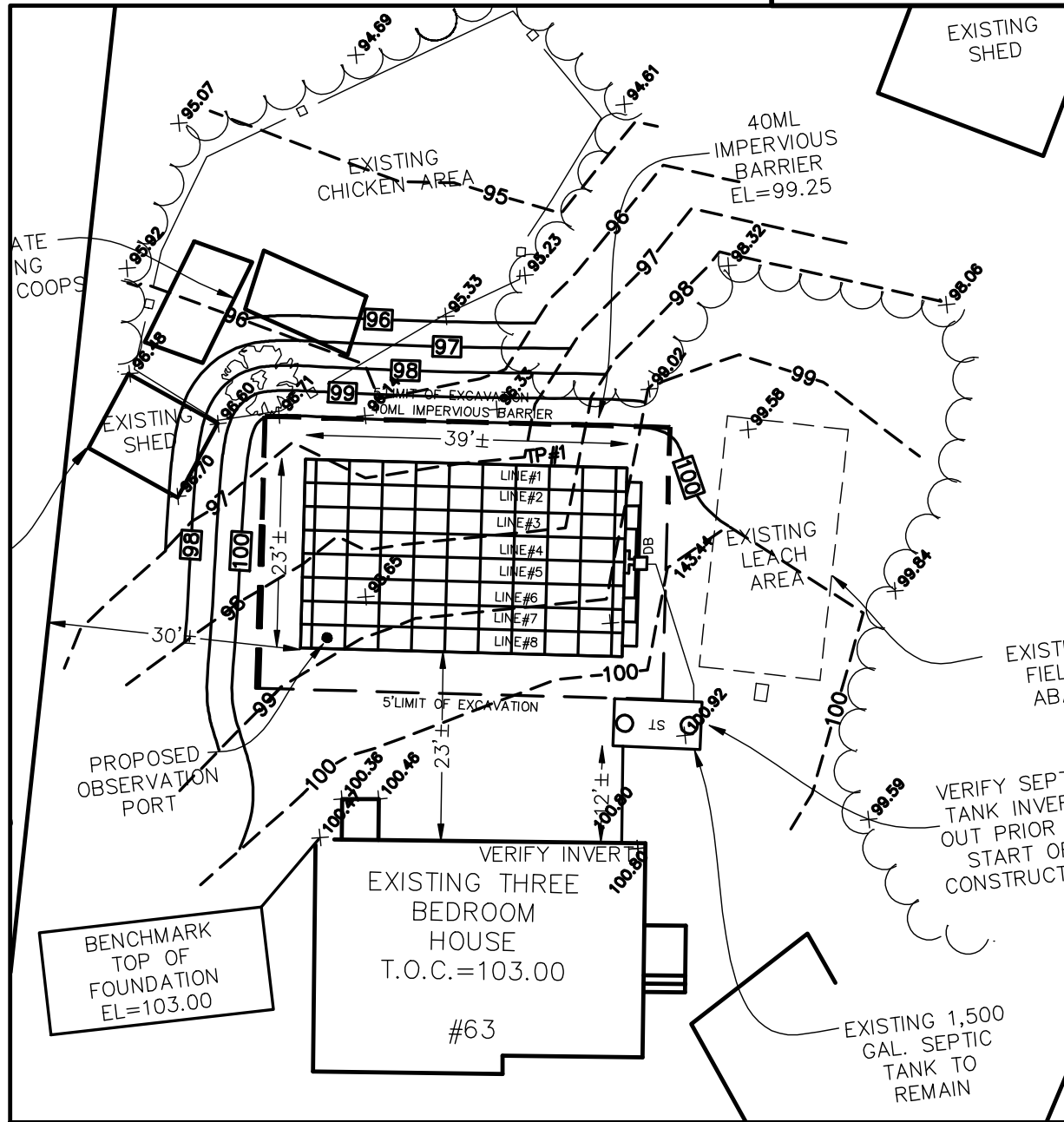
MAP#36, LOT 9
PARCEL 2
AREA=360,100 S.F.

EXISTING WELL

RESERVOIR AVENUE

MAP#36, LOT 9
PARCEL 1

EXISTING WELL



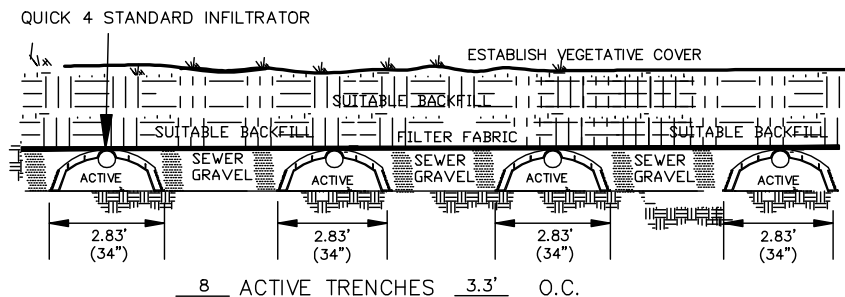
FIELD DETAIL
SCALE: 1"=20'

CONSTRUCTION NOTES:

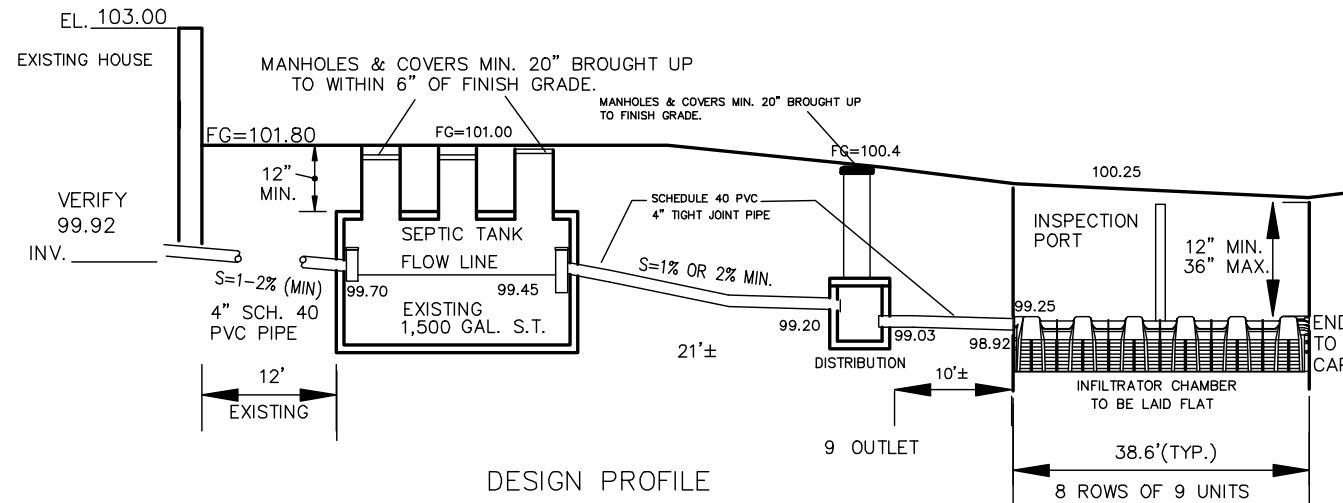
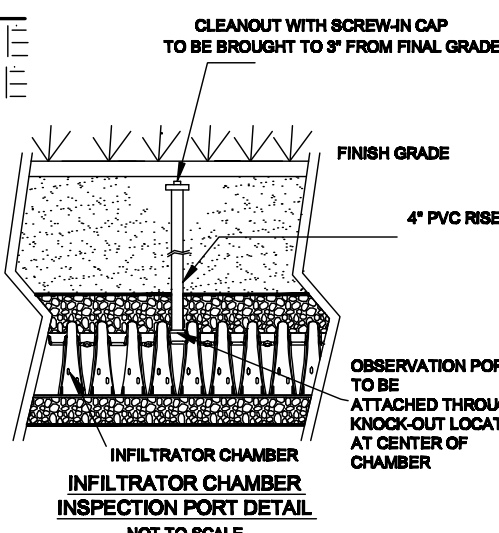
1. SEPTIC TANK AND DISTRIBUTION BOX SHALL BE INSTALLED LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ON TO WHICH 6" OF CRUSHED STONE HAS BEEN PLACED. IN FILL PROPER COMPACTION IS REQUIRED TO ENSURE STABILITY AND TO PREVENT SETTLING.
2. FILL SHALL BE PLACED IN NOT GREATER THAN 12" INCREMENTS AND COMPACTED BY DOZER TO THE SATISFACTION OF THE ENGINEER.
3. ALL EXTRA KNOCKOUTS IN SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE SEALED WITH HYDRAULIC CEMENT.
4. MAXIMUM COVER OVER ANY COMPONENT OF THE SEPTIC SYSTEM SHALL NOT EXCEED 36" REQUESTING WAIVER FOR COVER. ADDING VENT TO FIELD.
5. MINIMUM COVER OVER ANY COMPONENT OF THE SEPTIC SYSTEM TO BE 9" PRIOR TO PLACEMENT OF 3" MIN. TOPSOIL.
6. LOCATOR TAPE TO BE PLACED OVER THE SEPTIC TANK, D-BOX & LINES WITHIN THE BED CONFIGURATION.

DESIGN NOTES:

1. ALL TOPSOIL, SUBSOIL AND OTHER IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO PERVIOUS MATERIALS.
2. THE INSTALLATION OF PROPOSED SYSTEM SHALL BE DONE IN CONFORMANCE WITH LOCAL AND STATE BOARD OF HEALTH REGULATIONS.
3. NO PORTION OF THIS SYSTEM SHALL BE ALTERED WITHOUT APPROVAL FROM THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
4. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. CONSISTING OF CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND DELETERIOUS SOIL SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. A SIEVE ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH 310 CMR 15.255(3).
5. THIS SYSTEM IS NOT DESIGNED TO NOT ACCOMMODATE FOR A GARBAGE DISPOSAL.
6. THIS PLAN REFERS TO ASSESSORS MAP 36, LOT 9, PARCEL 2.
7. OFFSETS NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
8. ALL INSPECTIONS NECESSARY FOR THE CERTIFICATION OF THE SEPTIC SYSTEM AND THE PREPARATION OF AN AS-BUILT PLAN ARE TO BE PERFORMED BY THE DESIGN ENGINEER.



TYPICAL CROSS SECTION
NOT TO SCALE



DESIGN ELEVATIONS

TOP OF FOUNDATION	103.00
INV. AT FOUNDATION	99.92(EX.)
INV. AT SEPTIC TANK INLET	99.70(EX.)
INV. AT SEPTIC TANK OUTLET	99.45(EX.)
INV. AT DIST. BOX INLET	99.20
INV. AT DIST. BOX OUTLET	99.03
ELEV. TOP OF CHAMBER	99.25
INV. AT CHAMBER	98.92
EL. AT BOTTOM OF LEACHING BED	98.25
GROUNDWATER ELEVATION	94.25

WITNESSED KARL DROWN
SOIL EVALUATOR PETER LAVOIE ON 2/11/21

DTH#1	DEPTH	TEST
A	15'	48" WATER
S.L.		
10YR4/4		
B	11'	48" SAMPLE
S.L.		
10YR5/8		
C	83'	24" MOTTLES
S.L.		
10YR6/6		
PERC#1		SIEVE PERC
		CLASS I SOIL

"WARNING"
EXISTING UTILITY LINES INDICATED OR NOTED ON THESE DRAWINGS ARE SHOWN AS OBTAINED FROM EXISTING INFORMATION AND ARE ONLY APPROXIMATE IN LOCATION. THE CONTRACTOR SHALL TAKE CAUTION IN THESE AREAS TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL ENGAGED IN WORKING IN THESE AREAS.
CALL "DIG SAFE" 1-888-DIG-SAFE (1-888-344-7233).
EXISTING LINES OTHER THAN THOSE INDICATED ON THESE DRAWINGS MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK, ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNMARKED UTILITY LINES.

FLOW INFORMATION	
TYPE OF BUILDING	SINGLE FAMILY HOUSE
EMPLOYEES	N/A
DISPOSAL	NO
BEDROOMS	PROPOSED 3 BEDROOM
PERSONS	N/A
OTHER	N/A
DAILY FLOW	3x110(1.25) = 413
USE:	8 ROWS OF 9 UNITS EXISTING 1,500 GAL. S.T.
	7 OUTLET D.B.

LEACHING FACILITY DESIGN CRITERIA	
TITLE V	
PERC. DESIGN RATE	30 MIN./INCH
DESIGN FLOW	413
E.L.R.=PERC. RATE FACTOR=0.33gpd/sf	
QUICK 4 STANDARD (BED CONFIG.)	
EFFECTIVE LEACHING AREA= 4.72 sf/ft	
CHAMBER LENGTH = 4.0 ft	
REQUIRED	
FLOW = 3 X 110(1.25) = 413 gpd	
AREA = 413 / 0.33 = 1,251 s.f.	
EQ. # = 1,251/4.72 = 265.1feet	
UNITS = 265/ 4.0 = 66.25chambers	
PROVIDED	
UNITS = 8 rows x 9 units = 72 chambers	
72 UNITS X 4.0 LF PER UNIT = 288 LF PROP.	
288 LF PROP. X 4.72 SF PER LF = 1,359 SF PROP.	
FLOW = 1,359 x 0.33 = 448 gpd	

CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

63 RESERVOIR STREET
PROPOSED SEPTIC DESIGN PLAN

IN
REHOBOTH, MA

SCALE: 30 FEET TO AN INCH
DATE: MARCH 8, 2021

PREPARED FOR: ROBERT EDINGTON
ADDRESS: 63 RESERVOIR STREET
REHOBOTH, MA 02769

Landmark Site Design

Civil Engineering & Land Surveying
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(774)-265-0851
www.plavoie69@gmail.com