

GRAPHIC SCALE

( IN FEET )

1 inch = 20 ft.

COMPLETED. ONLY CERTIFIED WELL DRILLERS MAY PLUG

LOW PERMEABILITY GROUT, WHICH CURES WITH A FINAL

BE PLUGGED WITH NEAT CEMENT GROUT, SAND CEMENT

GROUT, CONCRETE, OR BENTONITE GROUT.

3) ABANDONED WELL SHALL BE COMPLETELY FILLED WITH A

PERMEABILITY OF LESS THAN 1X10-7 CM/SEC. WELLS SHALL

ABANDONED WELL

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION TO CONFORM TO TITLE 5 OF THE MASSACHUSETTS STATE ENVIRONMENTAL CODE (310 CMR 15.000) AND THE BOARD OF HEALTH REQUIREMENTS FOR THE TOWN OF MENDON MASSACHUSETTS.

2. TIGHT JOINT (TJ) PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (BVC) SCHEDULE 40 LINESS OTHERWISE NOTED, OR ALTHORIZED, ALL

(PVC) SCHEDULE 40, UNLESS OTHERWISE NOTED, OR AUTHORIZED. ALL PIPES TO BE LAID ON A FIRM BASE. TIGHT JOINT PIPES TO BE WATER TIGHT 3. ALL TOPSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE LEACHING AREA AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING AREA. BACK FILL AS REQUIRED WITH A CLEAN GRAVEL OR SAND FILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER AND LARGE BOULDERS. HAVING A PERCOLATION RATE IN ITS ORIGINAL LOCATION AND AFTER PLACEMENT OF 2 MINUTES PER INCH OR FASTER. FILL SHALL BE PROPERLY PLACED AND COMPACTED

TO MINIMIZE SETTLEMENT. FILL AS PER 310CMR 15.255 (3)

4. HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER THE LEACHING AREA.

5. FOR PROPER PERFORMANCE, SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS 1/3 OF THE LIQUID DEPTH OF THE TANK, THE SEPTIC TANK SHOULD BE PUMPED. USUALLY EVERY 2 YEARS.

6. ANY CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFERING FROM THOSE SHOWN HEREON SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION CONTINUES.

7. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL NOT BE BACK-FILLED PRIOR TO INSPECTION BY THE MENDON BOARD OF HEALTH AND RAOUF MANKARYOUS, THE DESIGN ENGINEER.

8. UNDERGROUND, AS WELL AS OVERHEAD UTILITY DATA INDICATED IS PLOTTED FROM VISIBLE FIELD LOCATIONS AND AVAILABLE RECORDS. THE LOCATIONS ARE APPROXIMATE ONLY AND VERIFICATION SHOULD BE MADE IN THE FIELD. DIAL 1-888-DIG-SAFE PRIOR TO CONSTRUCTION.

9. NO PROPERTY SURVEY WAS MADE AS PART OF THIS PLAN. PROPERTY LINE INFORMATION INDICATED WAS OBTAINED FROM DEED OF LAND. EXISTING PROPERTY LINES TO REMAIN UNCHANGED.

10. TOPOGRAPHIC SURVEY CONDUCTED BY RAOUF MANKARYOUS
AND IS BASED UPON AN ASSUMED (B.M.) ELEV. = SEE PLAN

11. THE PROPOSED CONSTRUCTION IS SUBJECT TO THE WETLANDS
PROTECTION ACT. THE MENDON CONSERVATION COMMISSION NEED TO BE

CONTACTED. WETLANDS LESS THAN 100' AWAY.

12. ALL KNOWN AND PROPOSED WATER SUPPLIES WITHIN 200' OF SYSTEM ARE SHOWN

13. SEPTIC TANK AND LEACHING FACILITY TO BE A MIN. OF 25' FROM ALL SURFACE AND SUBSURFACE DRAINS.

14. WATER SOFTENERS ARE NOT TO BE CONNECTED TO SEPTIC TANK.

15. HYDRAULIC CEMENT REQUIRED AT ALL CONNECTIONS.
16. AREA IS NOT A TRIBUTARY TO A PUBLIC DRINKING WATER SUPPLY.
PUBLIC DRINKING WATER SUPPLIES: NONE WITHIN 500' OF SEPTIC SYSTEM.
17. DEED REFERENCE: WORCESTER COUNTY, BOOK 64037 PAGE 352
ASSESSOR PARCEL ID 10-141-65-0

310 CMR 15.255(3) SYSTEM FILL SPECIFICATIONS

SEIVE SIZE EFFECTIVE % THAT MUST SEIVE SIZE PARTICLE SIZE PASS SEIVE

#4 4.75 mm 100% #50 0.30 mm 10%-100% #100 0.15 mm 0%-20% #200 0.075 mm 0%-5%

A SEIVE ANALYSIS IS REQUIRED FOR ALL SEPTIC SYSTEM SAND PRIOR TO INSTALLATION.

DOCUMENTATION OF SEIVE ANALYSIS IS REQUIRED.



RAOUF MANKARYOUS R.S. #1359

DESIGN CRITERIA - TITLE 5

1. TYPE OF ESTABLISHMENT: \_\_\_\_\_\_BEDROOM HOUSE 2. DESIGN FLOW: (MINIMUM 3 BDRM)

\_3\_ BEDROOMS AT 110 gpd = \_\_\_\_330\_\_ gpd

3. SEPTIC TANK SIZE: 1,500 GALLONS
NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR

A GARBAGE DISPOSAL. NO GARBAGE GRINDER (DISPOSAL) ALLOWED.

4. DESIGN PERCOLATION RATE: \_\_\_\_8 \_\_\_ min./inch

SOIL CLASS: \_\_\_\_\_\_\_\_

LONG TERM ACCEPTANCE RATE (LTAR): 0.66 gpd/sq.ft.

5. LEACHING CAPACITY PROVIDED: INFILTRATOR QUICK 4 PLUS
LEACHING AREA REQUIRED = 330/.66=500 SF
EFFECTIVE LEACHING AREA IN BED SYSTEM = 4.72 SF/LF
TOTAL LENGTH REQUIRED = 500/4.72= 106 LF

NUMBER OF QUICK 4 PLUS STD CHAMBERS REQUIRED =106/4=27 NUMBER OF QUICK 4 PLUS STD CHAMBERS PROPOSED = 32

——100—— EXISTING CONTOURS

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—100—— PROPOSED CONTOURS

TEST PIT LOCATIONPERCOLATION TEST LOCATION

DESIGNED BY: R. MANKARYOUS DRAWN BY: R. MANKARYOUS DATE: 05-10-2021

SCALE: 1" = 20' SURVEY BY: CREW SHEET: 1 OF 1



100'

10'

10'

DISTANCE TO PROPOSED PRIVATE

WELL ON THE PROPERTY

TANK TO PROPERTY LINE

WELL TO PROPERTY LINE

15.211(1)

Well Regs

SAS TO FOUNDATION WALL

50.7

9.4'

5.8'

5'±

## ENGINEERING INC. CIVIL ENGINEERS LAND SURVEYORS ENVIRONMENTAL CONSULTANTS

CIVIL ENGINEERS LAND SURVEYORS
ENVIRONMENTAL CONSULTANTS
25 HIGHLAND VIEW DR
SUTTON, MA 01590
508-865-9551

SEPTIC SYSTEM REPAIR AND WELL PLAN LOCATED AT

65 HARTFORD AVE. WEST PREPARED FOR AND OWNED BY

ANDREY BELOV

3124 POST ROAD

WARWICK, RI 02886



REVISION:

B.O.H. PERMIT

JOB # 21-0520