



DESCRIPTION	PROPOSED AS-BUILT
TOP OF WALL	87.20
INVERT AT FOUNDATION	76.00
INVERT IN SEPTIC TANK	75.70
INVERT OUT SEPTIC TANK	75.45
INVERT IN D.BOX	60.85
INVERT OUT D.BOX	60.67
INVERT BEGINNING FIELD	60.60
INVERT END OF FIELD	60.20

DESIGN CRITERIA	VALUE
DESIGN FLOW FOR # BEDROOMS	440 gallons/day
THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARAGE DISPOSAL.	
SEPTIC TANK CAPACITY	1500 GALLON
SQUARE FOOTAGE	0 sq.ft.
SIDEWALL: NOT APPLICABLE	1200 sq.ft.
TOTAL	1200 sq.ft.
SOIL CLASSIFICATION	CLASS II
LEACHING CAPACITY	0 gal./sq.ft.
SIDEWALL: NOT APPLICABLE	480 gal./sq.ft.
BOTTOM: 0.40 gal./sq.ft. x 1200 sq.ft.	480 gallons
TOTAL	480 gallons

SCHEDULE OF ELEVATIONS

TEST PERFORMED AS PER TITLE 5.
DATE OF TEST: 12/9/15
TEST TAKEN 50' BELOW EXISTING GRADE.
RESULT: 22 & 20 MINUTES PER INCH
DESIGNED AT 25 MINUTES PER INCH.
PERFORMED BY: MICHAEL LOIN
INSPECTED BY: JAMES WALLEY

PERCOLATION TEST AND DEEP HOLE OBSERVATIONS

100' DENOTES EXISTING CONTOUR
100' DENOTES PROPOSED CONTOUR

DESIGN CRITERIA

DESIGN FLOW FOR # BEDROOMS
4 Bedrooms x 110 gal./bedroom./day = 440 gallons/day
THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARAGE DISPOSAL.
THE USE OF GARAGE DISPOSALS IS NOT RECOMMENDED WITH SUBSURFACE DISPOSAL FACILITIES.
SEPTIC TANK CAPACITY: 1500 GALLON

LEACH FIELD CALCULATIONS

SQUARE FOOTAGE = 0 sq.ft.
SIDEWALL: NOT APPLICABLE = 1200 sq.ft.
TOTAL = 1200 sq.ft.

SOIL CLASSIFICATION: CLASS II
LEACHING CAPACITY: 0 gal./sq.ft.
SIDEWALL: NOT APPLICABLE = 0 gallons
BOTTOM: 0.40 gal./sq.ft. x 1200 sq.ft. = 480 gallons
TOTAL: 480 gallons

GENERAL NOTES

1. ALL WORK TO BE CONCEALED MUST BE INSPECTED BY THE BOARD OF HEALTH OR ITS AGENT PRIOR TO BEING BACKFILLED.
2. THE BUILDING SEWER (THE PIPE FROM 10' OUTSIDE THE BUILDING TO THE SEPTIC TANK) MUST BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE AND MUST BE WATER-TIGHT.
3. SEPTIC TANK AND DISTRIBUTION BOX TO BE PRE-CAST CONCRETE AS PER TITLE 5.
4. SEPTIC TANK AND D.BOX MUST BE SET ON A LEVEL STABLE BASE AND MUST BE WATER TIGHT.
5. THE FINISH GRADE ABOVE AND ADJACENT TO THE FIELD SHALL SLOPE AT LEAST 2% TO PREVENT THE ACCUMULATION OF SURFACE WATER.
6. FILL MATERIAL REQUIRED SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF MATERIALS SHALL NOT BE USED. A SEIVE ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH 310 CMR 15.245 (3).
7. STONE SHALL CONSIST OF DOUBLE-WASHED STONE AND SHALL BE FREE OF IRON, FINES AND DUST IN PLACE.
8. ALL DISTURBED AREAS TO BE LOAMED (3" MIN.) FINE RAKED AND SEEDED.
9. ALL WELLS WITHIN 200' OF THE PROPOSED SYSTEM ARE SHOWN OR REFERRED TO BY NOTATION.
10. ALL WETLANDS WITHIN 100' OF THE CONSTRUCTION ARE SHOWN. THE SITE IS SUBJECT TO WETLANDS PROTECTION ACT.
11. OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
12. THE PROPOSED WELL IS NOT WITHIN 100' OF ANY KNOWN LEACHING FACILITIES. (NOT APPLICABLE - EXISTING WELL).
13. REMOVE TOPSOIL, PEAT AND OTHER IMPERVIOUS MATERIALS FROM ALL AREAS BENEATH THE LEACH FIELD AND FOR A DISTANCE OF 5' THEREFROM (AS SHOWN) AND REPLACE WITH FILL MATERIAL AS SPECIFIED IN NOTE 6 COMPACTED IN 6" LIFTS TO AN ELEVATION EQUAL TO THE TOP OF PEA STONE WITHIN THE SYSTEM.

SOIL ABSORPTION SYSTEM - "NEW"

Located At: BOUCHER DRIVE
Chatham, Massachusetts
For: John Walker
Both File # 2015-27
20076
REV. 1

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Soil Absorption System - "NEW"

8/18/20
PLAN NUMBER
20076
REV. 1

ORIGINAL	REVISIONS	MAINTENANCE NOTE
8/18/20 AMT 1 11/12/20	ECB AND DIST. AREA AMT LSU	THE STATE ENVIRONMENTAL CODE, STATUTES, SEPTIC TANKS SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY.
Drawn AMT		PERMANENT STRUCTURES ARE TO BE ERECTED IN THE RESERVE AREA. DO NOT PLANT TREES OVER OR NEAR THE FIELD. AVOID VEHICULAR TRAFFIC OVER SYSTEM.
Reviewed		
Approved		

Professional Engineer Seal
MICHAEL LOIN
No. 25800
State of Massachusetts

Signature of Michael Loin