SOIL TEST DATA

NO.	DATE	DEPTH	RATE	LTAR
1	12/07/04	30"	14 MIN/IN	0.56

APPLICANT: R. GRACE

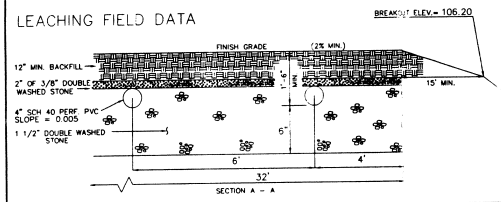
PERFORMED BY: R. ELLIOT

WITNESSED BY: B. REAGOR (B.O.H.)

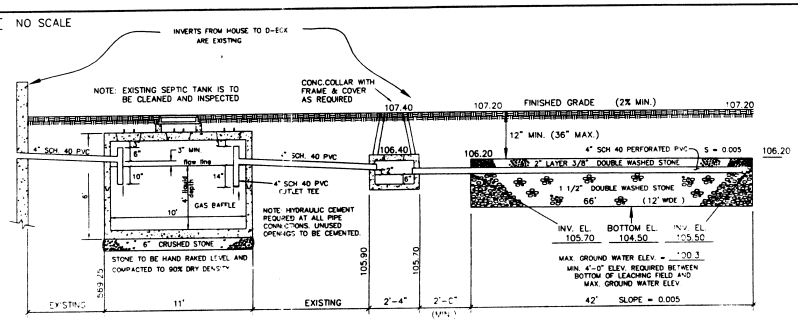
DATE OF TEST: 12-07-04

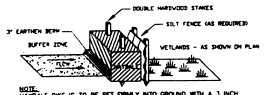
O.H. #	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structures, Stones, Boulders, Consistency % Gravel)
#1	0–12" 12–24" 24–78"	A Bw C	SL SL LS	10 YR 3/2 10 YR 5/6 2.5 Y 6/2	MOTTLING @ 50"	FRIABLE FRIABLE FRIABLE
#4	0–6" 6–26" 36"	A Bw REFUSAL	SL SL	10 YR 3/2 10 YR 5/6	MOTTLING @ 67"	FRIABLE, LOOSE FRIABLE, FIRM

LEACHING FIELD DATA

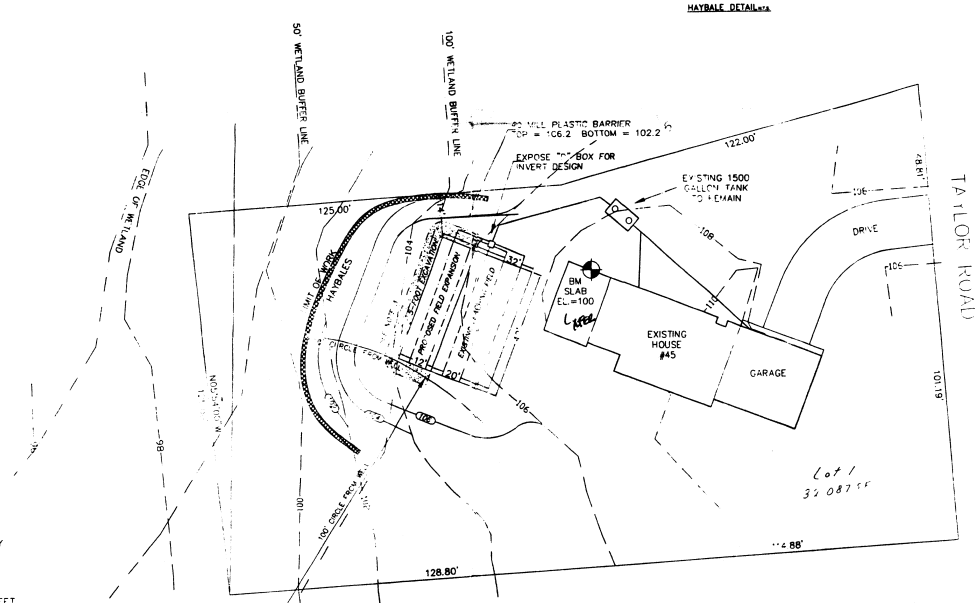


SYSTEM PROFILE NO SCALE





HAYBALE DETAIL n.t.s.



ADDITIONAL CONSTRUCTION NOTES:

WATER SOFTENERS ARE NOT TO BE CONNECTED TO SEPTIC TANK
HYDRAULIC CEMENT REQUIRED AT ALL SEPTIC TANK AND PIPE BOX CONNECTIONS
THERE ARE WETLANDS WITHIN 100' OF GRADED AREA – RELEASED BY R. MURPHY
AREA IS NOT A TRIBUTARY TO A PUBLIC DRINKING WATER SUPPLY
EXISTING UTILITIES AS SHOWN ARE BASED UPON AVAILABLE INFORMATION
CALL 1-888-DIG SAFE PRIOR TO COMMENCEMENT OF EXCAVATION
DEED REFERENCE: WORCESTER COUNTY, BOOK 4898, PAGE 338
STORM DRAINAGE: SHEET DRAINED TO SHOULDER, NO WORK WITHIN 100' OF STREET
PUBLIC DRINKING WATER SUPPLIES: NONE WITHIN 500' OF SEPTIC SYSTEM
CONSERVATION COMMISSION REVIEW MAY BE REQUIRED
DROP ON CONTROLS ARE TO BE INSTALLED AS REQUIRED.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

LAND PLANNING, INC.
214 Worcester Street
North Grafton, Massachusetts 01536

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 ACTON, MASSACHUSETTS.

2. TIGHT JOINT (TJ) PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (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 OR 3 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 ACTON BOARD OF HEALTH AND ROBERT G. MURPHY, 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.

10. TOPOGRAPHIC SURVEY CONDUCTED BY ROBERT MURPHY ON: 12-2-07 AND IS BASED UPON AN ASSUMED (B.M.) SLAB ELEV.= 100.00

11. THE PROPOSED CONSTRUCTION MAY BE SUBJECT TO THE WETLANDS PROTECTION ACT. THE ACTON CONSERVATION COMMISSION MAY NEED TO BE CONTACTED. WETLANDS ARE LOCATED 100' FROM LEACH FIELD.

12. ALL KNOWN AND PROPOSED WATER SUPPLIES WITHIN 500' OF SYSTEM ARE SHOWN. ALL SYSTEMS WITHIN 500' OF PROP. WELL ARE SHOWN.

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

DESIGN CRITERIA – TITLE 5

1. TYPE OF ESTABLISHMENT: 6 BEDROOM HOUSE

2. DESIGN FLOW:
6 BEDROOMS AT 110 gpd = 660 gpd

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

4. DESIGN PERCOLATION RATE: 15 min./inch
SOIL CLASS: II
LONG TERM ACCEPTANCE RATE (LTAR): .56 gpd/sq.ft.

5. LEACHING CAPACITY PROVIDED:

SIDEWALL: ***NOT ALLOWED***

BOTTOM: 32 (width) x 42 (length) = 1344 sq.ft.

TOTAL: 1344 sq.ft. x .56 gpd/sq.ft. = 752.6 gpd

LEGEND

—100— EXISTING CONTOURS
—100— PROPOSED CONTOURS
TEST PIT LOCATION
PERCOLATION TEST LOCATION

DESIGNED BY: R. G. Murphy	DRAWN BY: R. G. Murphy	DATE: 2-19-2008
SCALE: 1" = 20'	PLAN NO: S-08-12	SHEET: 1 OF 1

ROBERT G. MURPHY & ASSOC., INC.
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RGMENVIRON@CHARTER.NET

SEPTIC SYSTEM DESIGN FOR:
GASTON DE LOS REYES
45 TAYLOR ROAD
ACTON, MASSACHUSETTS

REVISION:

BOARD OF HEALTH PERMIT #