

No. 08-16

FEE \$450.00
pd

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct Repair Upgrade Abandon () - Complete System Individual Components

Location <u>MRS C. MATUSKO</u>	Owner's Name <u>MRS C. MATUSKO</u>
Map/Parcel# <u>190 MONTAGUE RD</u>	Address <u>317 MEADOW ST</u>
Lot# <u>N. AMHERST MASS</u>	Telephone# <u>AMHERST MASS</u>
Installer's Name <u>WILLIAM SIERUTA</u>	Designer's Name <u>WILLIAM J SIERUTA</u>
Address <u>453 Federal</u>	Address <u>453 FEDERAL ST</u>
Telephone# <u>MONTAGUE 3672409</u>	Telephone# <u>MONTAGUE MA</u>
	<u>413 367 2409</u>

Type of Building RESIDENTIAL HOME Lot Size EXIST sq. ft.
 Dwelling - No. of Bedrooms 1 BEDROOM NO DISPOSTIC Garbage grinder NO
 Other - Type of Building SINGLE FAMILY No. of persons 4 Showers () Cafeteria (NO)
 Other Fixtures 3 BEDROOM MINIMUM DESIGN PER 310 CMR 15.03
 Design Flow (min. required) 3 x 110 gpd Calculated design flow 330 Design flow provided 333 gpd
 Plan: Date DEC 6 2006 Number of sheets 1 Revision Date -
 Title SEPTIC SYSTEM DESIGN FOR MRS C MATUSKO
 Description of Soil(s) SEE ATTACHED 190 MONTAGUE RD
 Soil Evaluator Form No. 11 Name of Soil Evaluator WJ Date of Evaluation 12/3/08
SIERUTA REEVAL

DESCRIPTION OF REPAIRS OR ALTERATIONS COMPLETE SEPTIC SYSTEM
UPGRADE TO 310 CMR 15.0

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed [Signature] Date 12/4/08

Inspections _____

No. 08-16

FEE \$150.00

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (), Upgraded , Abandoned ()

by: William Sieruta
at 190 Montague Rd (40 Ball Lane)

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 08-16, dated 12-03-08. Approved Design Flow 333 (gpd)

Installer William Sieruta
Designer: William Sieruta Inspector: Ellen Bokina Date: 01-06-09

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 08-16

FEE \$300.00
pd

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade Abandon () an individual sewage disposal system at 190 MONTAGUE RD (40 BALL LANE) as described in the application for Disposal System Construction Permit No. 08-16, dated 12-06-08.

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA Date 12-09-08 Board of Health [Signature] DC, MPH, RS



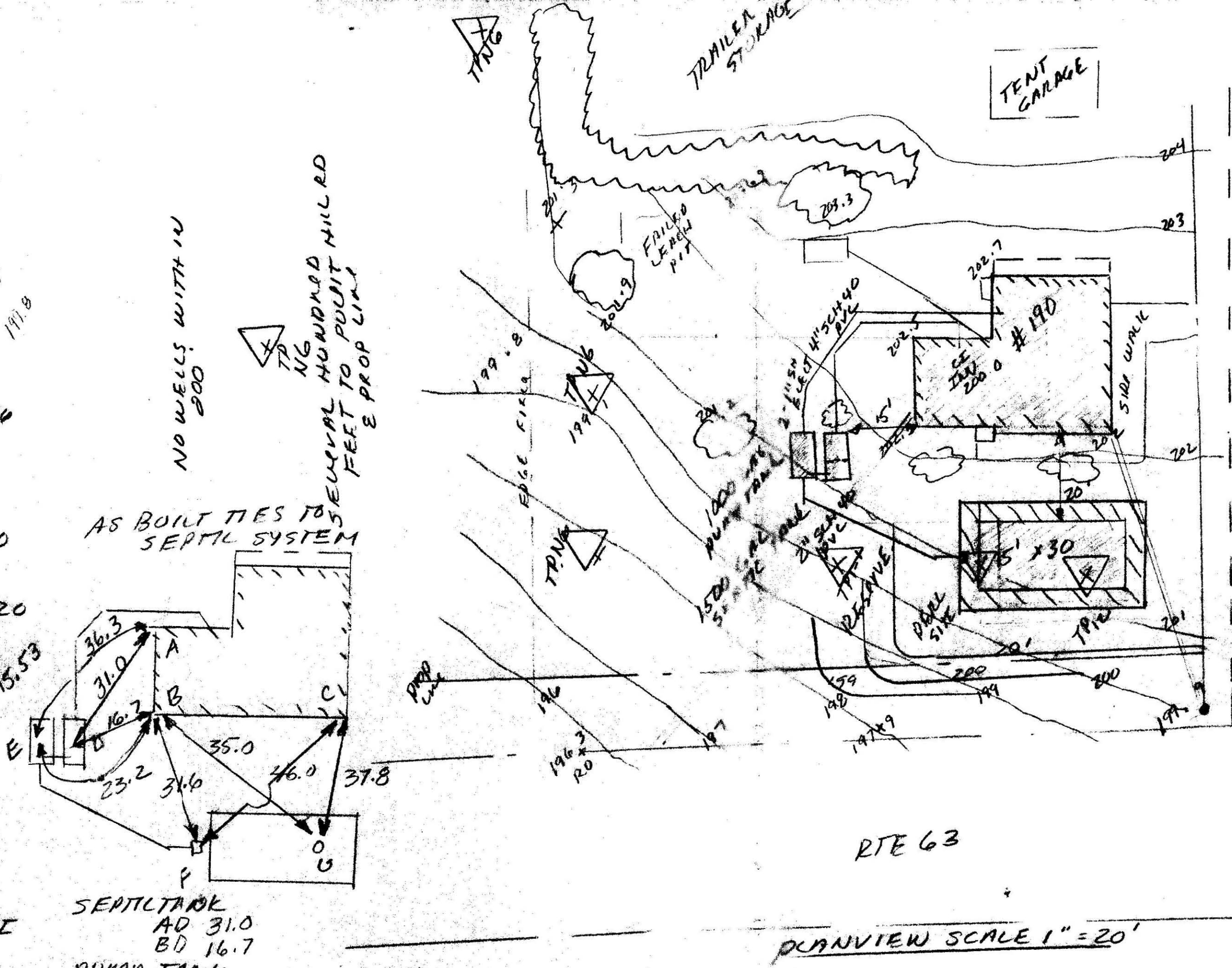
PERCOLATION TEST INFORMATION

TPI-1		TPI-2	
0-12	OTS LOAM TOP SOIL	12	12
12-18	SILTY GRAVEL SUB SOIL	6	6
18-68	WELL GRADED GRAVEL 10% GRAV MASSIVE FRAGILE	50	50
68-710	SILTY SAND LOAM	32	32
710-1020	LOAM CLAY	10	10
	AD SANDY LOAM 104R 3-2		
	BW LOAMY SAND 104R 5-4		
	C1 SAND MED		
	C2 SANDY LOAM 104R 4-0		
	C3 LOAM 104R 4-4		

H2O @ 68" WEERING & STANDING 68" MOTTLING 104R 5-0 @ 68" (HAND) EHWT 58"

WEERING & STANDING H2O @ 68" MOTTLING 104R 5-0 @ 68" EHWT 68"

DATE: 12-3-08
 ENGR: W.J. STERUTA PE/EVAL
 WITNESS: E. BOKINA BOH
 PERMEABILITY TEST
 PERC 1 @ TPI-1 TPI-2
 DEPTH 49"
 ACTUAL RATE 2.33 MIN/INCH
 DESIGN RATE 5.0 MIN/INCH
 CLASS I SOIL 48" SEPARATION REQD
 PER 310 CMR 15.212



SEPTIC TANK
 AD 31.0
 BD 16.7

PUMP TANK
 AE 36.3
 BE 25.2

DIST BOX
 BF 31.6
 CF 46.0

INSPECTION PORT
 BG 35.0
 CG 37.5

DESIGN INFORMATION
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 TITLES AND ALL LOCAL BOARD OF HEALTH REGULATIONS.

FINISH GRADING TO BE AS SHOWN ON PLAN VIEW. ALL DISTRIBUTED AREAS TO BE LOAMED AND SEEDED.

DESIGN CRITERIA
 USE: EXISTING 1 BEDROOM SINGLE FAMILY RESIDENTIAL HOME NO DISPOSAL UNIT NO BMT

DESIGN FLOW: 310 CMR 15.203
 REQD 3 BEDROOM (MAIN DESIGN)
 110 GALS/PERSON X 3 = 330 GALS/DAY
 NO DISPOSAL UNIT

SEPTIC TANK: 310 CMR 15.223
 REQD 200% X 330 = 660 GALS
 MINIMUM TANK SIZE PERMITTED 1500 GALS
 USE A TWO (2) COMPARTMENT 1500 GAL TANK 10'6" X 5' X 6" 48" FLOWLINE
 TYPICAL TANK 58" FROM BASE TO INLET INV.

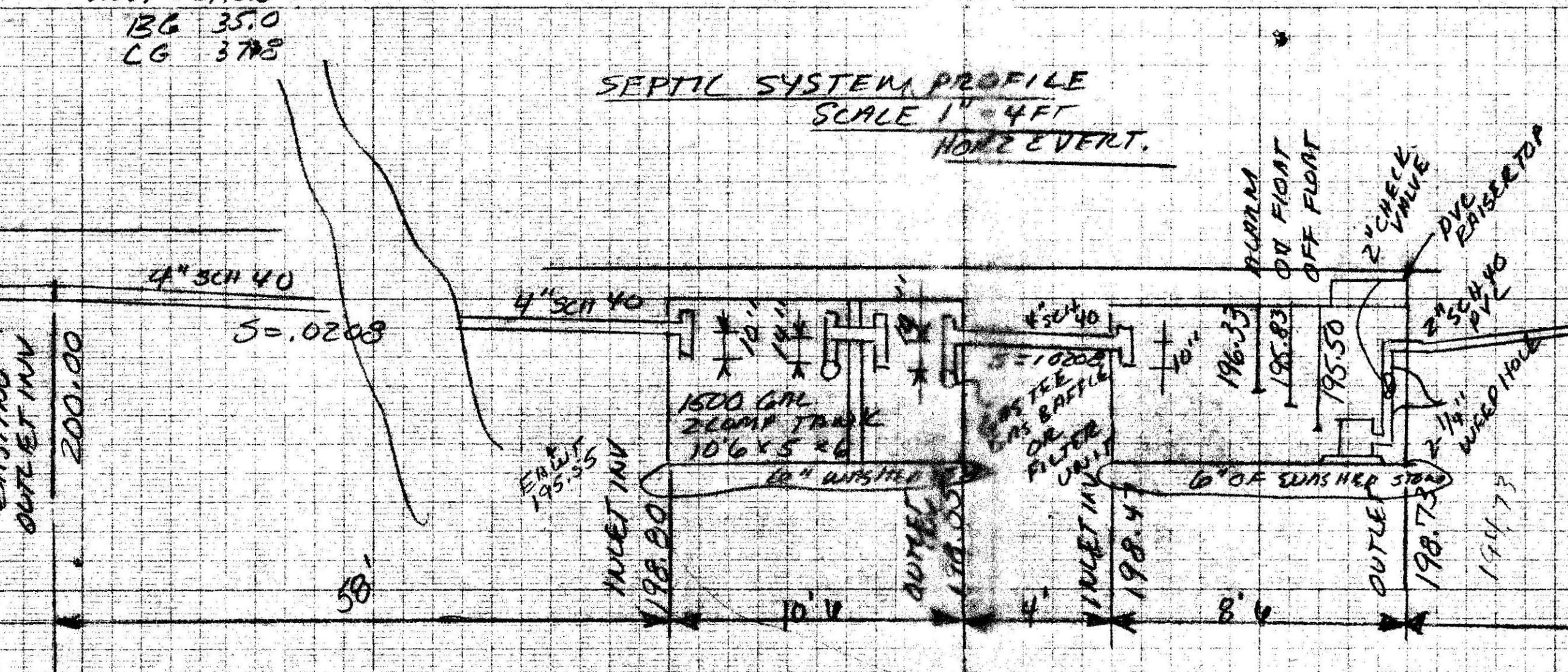
LEACHING SYSTEM: 310 CMR 15.252
 DUE TO SOIL CONDITIONS A LEACHFIELD DESIGN IS TO BE USED PER 310 CMR 15.252

EFFECTIVE DEPTH 6" MIN
 EFFECTIVE WIDTH 15'
 EFFECTIVE LENGTH 30'

BOTTOM AREA
 15' X 30' = 450 FT²

TOTAL PERMEABILITY
 450 FT² X .74 = 333 GALS/DAY

TBM SET AT EXISTING CI PIPE OUTLET INV



- INSTALLATION NOTES:**
- EXISTING SEPTIC TANK TO BE PLUMBED CLEANED CRUSHED & SAND FILLED. EXISTING LEACH PIT TO BE CRUSHED AND SAND FILLED.
 - NEW 1500 GAL 2 COMPARTMENT SEPTIC TANK WITH INLET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 SECTIONS.
 - SEPTIC TANK, PUMP TANK, AND DIST BOX TO BE SET ON 6" DEEP FOUNDATION PAD OF WASHED STONE. ALL TO BE SET LEVEL.
 - ALL STONE TO BE DOUBLE WASHED FREE OF ALL SILT AND FINES.
 - ALL PIPE JOINTS WITH TANKS AND D. BOX TO BE ASPHALT ROPE SEALED.
 - AN INSPECTION PORT TO BE INSTALLED IN LEACH FIELD AS SHOWN.
 - ALL COMPONENTS OF SEPTIC SYSTEM TO BE MARKED WITH METALLIC MARKING TAPE.

PUMP EQUIPMENT
 1- MEYERS MW50 OR EQUAL
 1- 2" CHECK VALVE
 1- 101 ALARM UNIT
 1- SIMPLY CONTROLLER
 2- 1556 MINO MECH. FLOATS
 2- WATER TIGHT ELECT BOXES
 2- 1" SCH 40 ELECT CONDUITS
 1- C384 FLOAT BRACKET
 ALL ELECTRICAL BY LIC ELEC PER ELEC CODE.

DOSE REQD 41.0E/1 CLASS I SOIL
 $\frac{1}{4} \times \frac{330}{250} = .33$

SELECT SAND FILL REQD
 1- 2' X 1' X 40' X 25' = 44 CU YDS
 COMMON FILL REQD FOR GRADING
 1- 2' X 1' X 15' X 80' = 53 CU YDS

SLOPE OFFSET CALC
 310 CMR 15.211
 REQD FOR SLOPE 1:3 OR LESS 15 FT AVAILABLE TO BREAKOUT ELEV 200.68 AFTER GRADING 15 FT

SEPTIC SYSTEM DESIGN FOR
 MRS. C. MATUSKO
 190 MONTAGUARD
 NORTH AMHERST, MASS
 ENGR: W.J. STERUTA PE
 DATE: DEC. 6, 2008

