36 EAST LEVERETT RD.

William J. Sieruta, P.E.
453 Federal Street
Montague, MA. 01351
413-627-7244

Town Hall
Board of Health
70 Boltwood Walk
Amherst, MA. 01002

August 23, 2009

Subject: As Built Inspection
Jeff Millar
36 East Leverett Road
Amherst, MA.

An "as built" inspection was completed for the subject septic system. This system is in compliance with 310 CMR 15.0 and local board of health regulations.

If you have any questions or need any additional information, please do not hesitate to contact me.

Very truly yours,

William J. Sieruta, P.E.

William J. Sieruta, P.E.
(MBS)
Cc: Jeff Millar
50 East Leverett Road
Amherst, MA. 01002

No. _____ FEE 09-04 450.00 pd

Commonwealth of Massachusetts
William John Sierutta
Civil
No. 30148
Registered Professional Engineer

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Applicant is hereby granted to Construct(X) Repair(X) Upgrade(X) Abandon( ) - ☒ **Complete System** ☐ **Individual Components**

Location 36 EAST LEVERETT RD	Owner's Name JEFF MILLAR
Map/Parcel# AMHERST, MASS	Address 50 EAST LEVERETT RD AMHERST MASS
Lot#	Telephone# 575-1968
Installer's Name	Designer's Name WILLIAM J SIERUTA PE
Address	Address 453 FEDERAL ST MONTAGUE MASS
Telephone#	Telephone# 413 367 2409

Type of Building RESIDENTIAL HOME Lot Size EXIST sq. ft.

Dwelling - No. of Bedrooms 3 BEDROOM NO DISPOSAL Garbage grinder (X)

Other - Type of Building SINGLE FAMILY No. of persons 6 Showers (X) Cafeteria (X)

Other Fixtures (DESIGN FOR 4 BEDROOMS)

Design Flow (min. required) 110 x 3 gpd Calculated design flow 330 Design flow provided 444 gpd

Plan: Date 6/11/09 Number of sheets 1 Revision Date –

Title SEPTIC SYSTEM DESIGN FOR JEFF MILLAR 36 EAST LEVERETT RD

Description of Soil(s) SEE ATTACHED

Soil Evaluator Form No. 11 Name of Soil Evaluator WJ SIERUTA PE Date of Evaluation 6/3/09

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 X _____ Date 6/12/09

Inspections _____

No. 09-04 FEE 150.00 pd

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 (X), Abandoned ( )

by: William Sierutta

at 36 East Leverett Rd

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. 09-04, dated 6-03-09. Approved Design Flow 444 (gpd)

Installer _____

Designer: _____ Inspector: _____ Date: 8-04-09

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

No. 09-04 FEE 300.00 pd

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct( ) Repair( ) Upgrade(X) Abandon( ) an individual sewage disposal system at 36 East Leverett Rd as described in the application for Disposal System Construction Permit No. 09-04, dated 6-03-09.

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 7-10-09 Board of Health Amherst DC UH RS

8-4-09

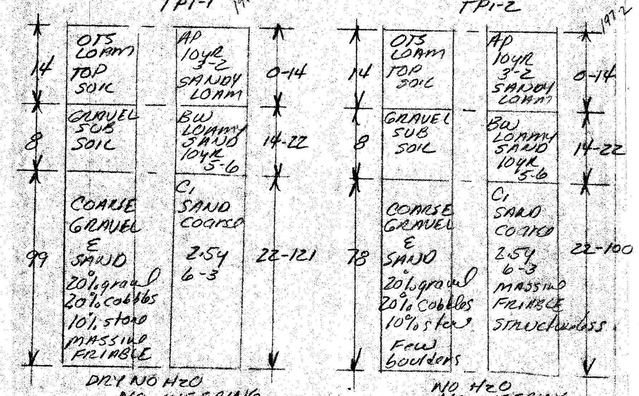
- Awaiting As-built from Bill Sieruta
rm 36 E. Leverett Rd.
received on 8/25/09

		BOH Activities	
		Other	
s (B)	75.00		

and (B) should always equal

t Head Signature	Date

PERCOLATION TEST INFORMATION



DATE: 6-3-09
ENGR: W.J. SIEROTA PE EVAL
WITNESS: E. BOKINA BOH REP.

PERMEABILITY
PERC 1 @ TPi-1 TPi-2
DEPTH 40"
ACTUAL RATE: 2.0 MIN/INCH
DESIGN RATE: 5.0 MIN/INCH
CLASS I SOIL
60" SEPARATION REQUIRED PER 310 CMR 15.212

PERC 2 WAIVED BY BOH REPAIR PERC TEST VERY CONSISTENT SOIL

TBM SET AT SILL ELEVATION OF HOUSE ELEV 200.00

DESIGN INFORMATION

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 (TITLE 5) AND ALL LOCAL BOARD OF HEALTH REGULATIONS.

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

DESIGN CRITERIA

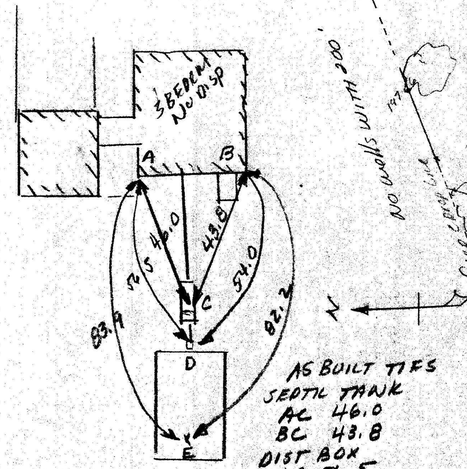
USE: EXISTING 3 BEDROOM SINGLE FAMILY RESIDENTIAL HOME
NO DISPOSAL UNIT
FULL BTH

DESIGN FLOW: 310 CMR 15.203
REQD 110 GALS/BEDROOM x 3 = 330 GALS/DAY
NO DISPOSAL UNIT

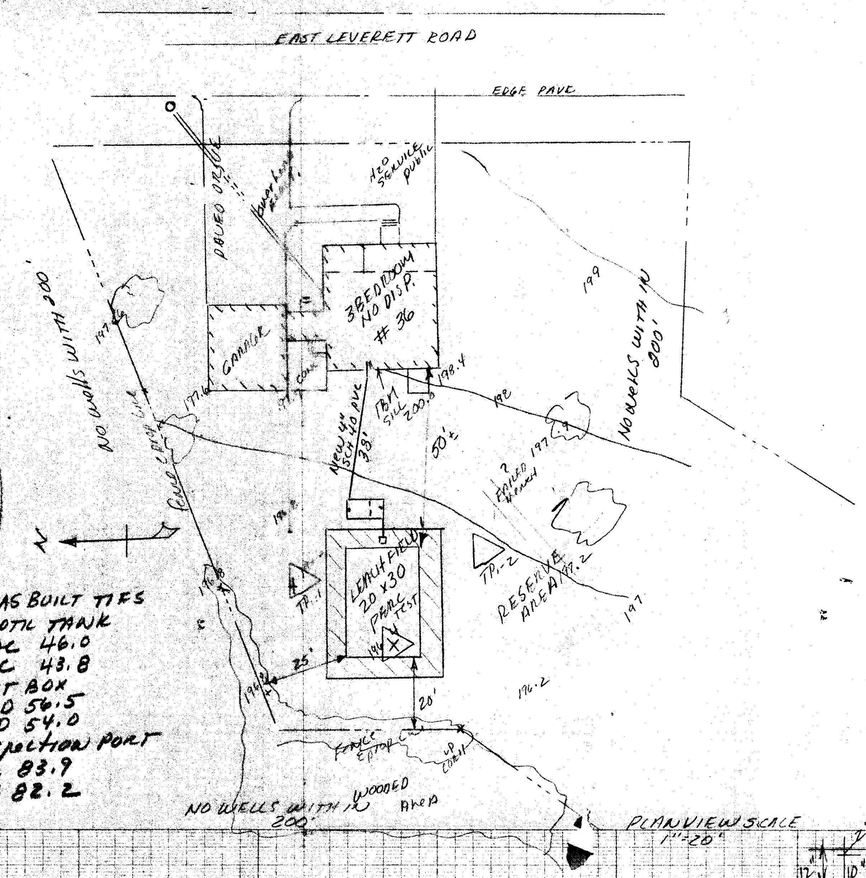
SEPTIC TANK: 310 CMR 15.223
REQD 330 GALS/DAY x 200% = 660 GALS
MINIMUM TANK SIZE PERMITTED 1500 GALS
USE A TWO (2) COMPARTMENT 1500 GAL PRECAST CONC TANK 10'6" x 5' x 6' 48" FLOW LINE
TYPICAL TANK 56" FROM BASE TO INLET INV

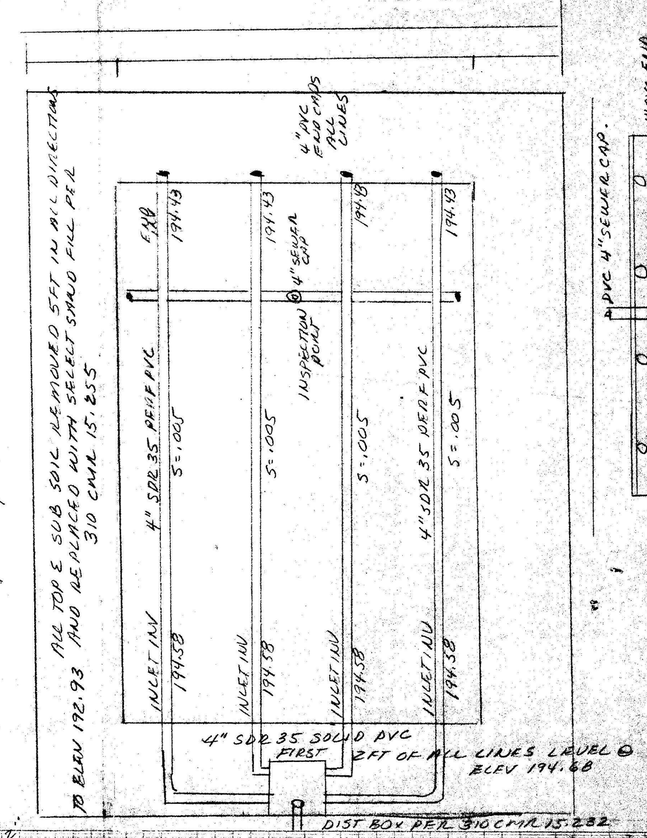
LEACHING SYSTEM: DUE TO SOIL CONDITIONS A LEACHFIELD DESIGN IS TO BE USED PER 310 CMR 15.252

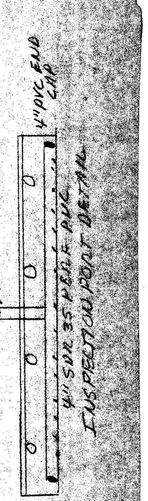
EFFECTIVE DEPTH 6' (MIN)	PERMEABILITY TEST PERC RESULTS 310 CMR 15.242
EFFECTIVE WIDTH 20'	ACTUAL RATE 2.0 MIN/INCH
EFFECTIVE LENGTH 30'	DESIGN RATE 5.0 MIN/INCH
BOTTOM AREA 20' x 30' = 600 FT²	CLASS I SOIL
TOTAL PERMEABILITY 600 FT² x .74 = 444 GALS DAY	60" SEPARATION REQD PER 310 CMR 15.212
	BOTTOM & SIDEWALL AREAS .74 GALS/FT²

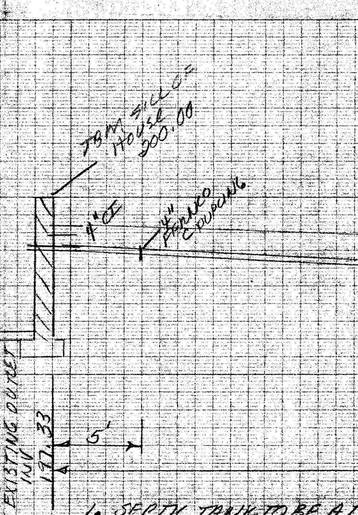


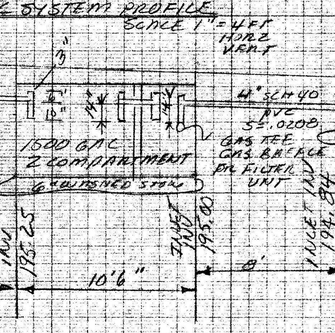
AS BUILT TEES
SEPTIC TANK
AC 46.0
BC 43.8
DIST BOX
AD 56.5
BD 54.0
INSPECTION PORT
AE 83.9
BF 82.2

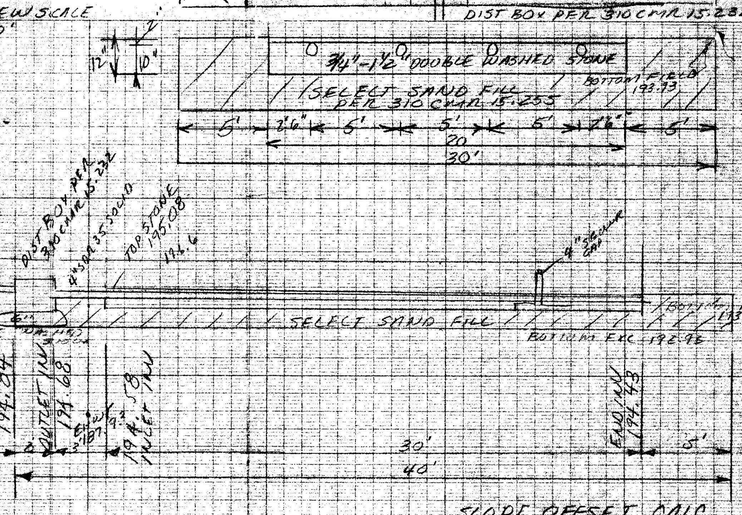












INSTALLATION NOTES

1. SEPTIC TANK TO BE A TWO COMPARTMENT TANK WITH INLET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 SECTION 5
2. ALL STONE TO BE DOUBLE WASHED FREE OF ALL SILTE FINES
3. SEPTIC TANK & DIST BOX TO BE SET LEVEL ON 6" DEEP FOUNDATION OF WASHED STONE
4. ALL PIPE JOINTS WITH TANK AND DIST. BOX TO BE ASPHALT ROPE SEALED
5. ALL TOP & SUB SOIL REMOVED TO ELEV 192.93 AND REPLACED WITH SELECT SAND FILL 5FT IN ALL DIRECTIONS PER 310 CMR 15.255
6. ALL COMPONENTS OF SEPTIC SYSTEM TO BE MARKED WITH METALLIC WARNING TAPE.
7. AN INSPECTION PORT TO BE INSTALLED ON LEACHFIELD AS SHOWN ON LEACH FIELD DETAIL

SELECT SAND FILL REQD
$\frac{1.2 \times 40' \times 30' \times 2.0}{27} = 106$ cu yds

NO ADDITIONAL COMMON FILL REQD.

SLOPE OFFSET CALC
310 CMR 15.211 REQD FOR SLOPES OF 1:3 OR LESS 15'
AVAILABLE TO BREAK OUT ELEV 195.08
OVER 100 FT EXCEEDS CODE.

SEPTIC SYSTEM DESIGN
FOR
JEFF MILLAR
36 EAST LEVERETT RD
AMHERST, MASS
ENGR: W.J. SIEROTA PE
DATE: JUNE 11, 2009

FORM 11 - SOIL EVALUATOR FORM

JEFF MILLAR

Location Address or Lot No. 36 EAST LEVERETT RD AMHERST MASS

On-site Review

Deep Hole Number TP1-1 Date: 6/3/09 Time: 9:30 Weather CLOUDY COOL

Location (identify on site plan) /

Land Use Resident Slope (%) 0 Surface Stones SOME

Vegetation LAWN NOted

Landform OUTWASH LOCKALE

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500' feet Drainage way DNA feet

Possible Wet Area 500' feet Property Line 40' feet NEAR

Drinking Water Well feet Other DNA PUBLIC H2O

DEEP OBSERVATION HOLE LOG*

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-14	Ap	S/L	10YR 3-2		
14-22	Bw	L/S	10YR 5-6	10YR 5-8	20% gravel 20% cobbles
22-121	C1	SAND Coarse	2.5 4 6-3		10% stone Few boulders MASSIVE FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH Depth to Bedrock: DNA

Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: NONE

Estimated Seasonal High Ground Water: ESHWT 104

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 36 EAST LEVERETT RD Amherst MA

On-site Review

Deep Hole Number TP1-2 Date: 6/3/09 Time: 9:30 Weather CLOUDY COOL

Location (identify on site plan) /

Land Use Resident Slope (%) 0 Surface Stones SOME

Vegetation LAWN

Landform OUTWASH GRAVEL

Position on landscape (sketch on the back)

Distances from:

Open Water Body 500' feet Drainage way DNA feet

Possible Wet Area 500 feet Property Line feet 25' NEAR

Drinking Water Well feet Other PUBLIC H2O

DEEP OBSERVATION HOLE LOG*

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-14	Ap	S/L	10YR 3-2		
14-22	Bw	L/S	10YR 5-6	10YR 5-8	20% gravel 20% cobbles
22-100	C1	SAND COARSE	2.5 4 6-3		10% stone Few boulders MASSIVE FRIABLE

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH Depth to Bedrock: DNA

Depth to Groundwater: Standing Water in the Hole: DRY Weeping from Pit Face: NONE

Estimated Seasonal High Ground Water: ESHWT 104

DEP APPROVED FORM - 12/07/95

FORM 12 - PERCOLATION TEST

* Location Address or Lot No. 36 EAST LEVERETT RD Amherst MA

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*

Date: 6/3/09	Time: 930	
Observation Hole #	TP1-1	
Depth of Perc	40"	
Start Pre-soak	930 - 945	
End Pre-soak	9:57	
Time at 12"	9:57	
Time at 9"	10:04	
Time at 6"	10:10	
Time (9"-6")	6/3 2.0	
Rate Min./Inch	DESIGN RATE 5.0	

CLASS I SOIL 60" separation 310 CMR 15.212

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☑ Site Failed ☐

Performed By: WILLIAM SIERUTA PE

Witnessed By: E BOKINA

Comments:

DEP APPROVED FORM - 12/07/93