HAZA East Leverett Road - Completed ONS

#260

No. 99-22 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 00

BOARD OF HEALTH

Town OF Amherst

c4 #296 4/6/99

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

260 E. Leverett Road Location	Wayne W. Lannon Owner's Name
Map/Parcel #	260 E. Leverett Rd., Amherst, MA 01002 Address
Lot #	Richard E. Costa Telephone # Robert Stover
Karl's Site Work, Inc. Installer's Name	Amherst Civil Engineering Designer's Name
327 River Dr., Hadley, MA Address	P.O. Box 3312, Amherst, MA 01004-3312 Address
(413) 549-5396 Telephone #	(413) 256-3400 Telephone #

Type of Building: SFH Lot Size 2.5 AC. ~~Sq. feet~~

Dwelling — No. of Bedrooms 4 Garbage Grinder (no)

Other — Type of Building _____ No. of persons _____ Showers ( ), Cafeteria ( )

Other fixtures _____

Design Flow (min. required) 440 gpd Calculated design flow 470 gpd Design flow provided _____ gpd

Plan: Date 11/3/99 Number of sheets 1 Revision Date _____

Title "Repair of Sewage Disposal System"

Description of Soil(s) Attached

Soil Evaluator Form No. _____ Name of Soil Evaluator Robert Stover Date of Evaluation 4/6/99

DESCRIPTION OF REPAIRS OR ALTERATIONS _____

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

Signed Wayne W. Lannon Date 11-4-99

Inspections _____

FORM 1 - APPLICATION FOR DSCP **DEP APPROVED FORM 5/96**

No. 99-22 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 00

Amherst BOARD OF HEALTH

c4 #296 4/6/99

CERTIFICATE OF COMPLIANCE

Description of Work: ☐ **Individual Component(s)** (X) **Complete System**

COMMONWEALTH OF MASSACHUSETTS Richard E. Costa Civil No. 37449 REGISTERED PROFESSIONAL ENGINEER

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

by: Wayne W. Lannon

at 260 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. 99-22 dated _____. Approved Design Flow _____ (gpd)

Installer _____ 11/8/99

Designer: Robert W. Stover 4/6/00 Inspector _____ Date 5/7/00

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

FORM 3 - CERTIFICATE OF COMPLIANCE **DEP APPROVED FORM 5/96**

No. 99-22 THE COMMONWEALTH OF MASSACHUSETTS FEE 160 00

Amherst BOARD OF HEALTH

c4 #296 4/6/99

DISPOSAL SYSTEM CONSTRUCTION PERMIT

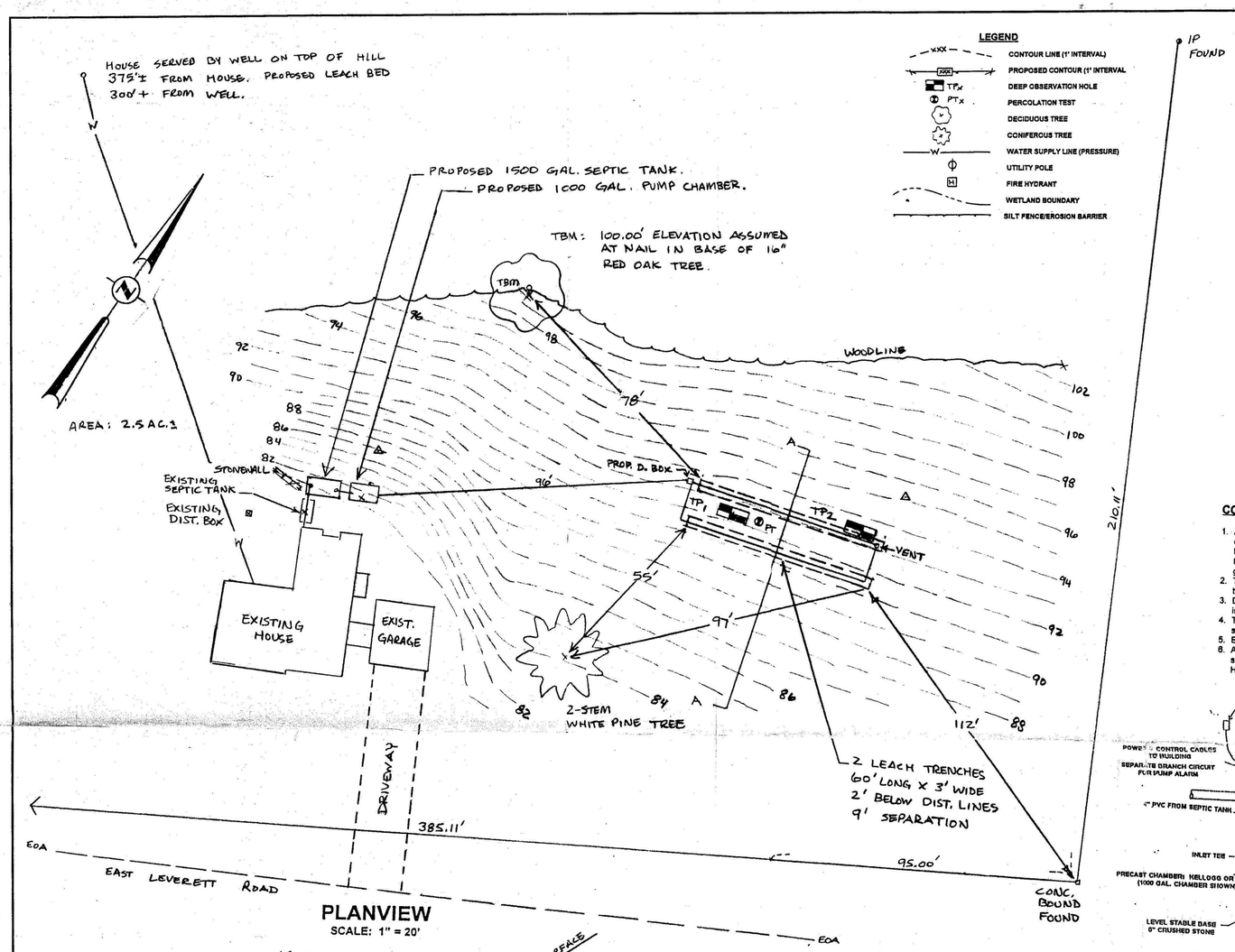
Permission is hereby granted to Construct ( ) Repair (X) Upgrade ( ) Abandon ( ) an individual sewage disposal system at 260 East Leverett Rd as described in the application for Disposal System Construction Permit No. 99-22, dated 11-5-99.

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

Date 11-5-99 Board of Health _____

for _____ Sanitary Engr. Dept.

FORM 2 - DSCP **DEP APPROVED FORM 5/96**



PLANVIEW

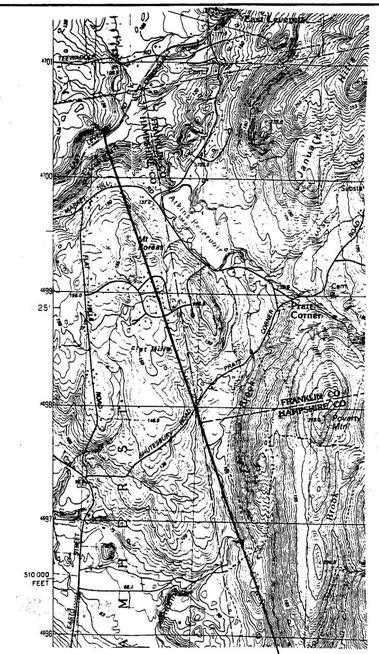
SCALE: 1" = 20'

LEGEND

- CONTOUR LINE (1' INTERVAL)
- PROPOSED CONTOUR (1' INTERVAL)
- TPx DEEP OBSERVATION HOLE
- PTx PERCOLATION TEST
- DECIDUOUS TREE
- CONIFEROUS TREE
- WATER SUPPLY LINE (PRESSURE)
- UTILITY POLE
- FIRE HYDRANT
- WETLAND BOUNDARY
- SILT FENCE/EROSION BARRIER

CONSTRUCTION NOTES

1. Any topsoil, subsoil, stumps, stones, debris or other impervious materials encountered during excavation shall be removed from the area of the leaching trenches, from five feet around the trenches and from wherever fill is to be placed. Any fill placed in or adjacent to the trenches shall be a clean granular sand & conform to the specifications of Title 5, 310 CMR 15.255(3).
2. The finished grade above the soil absorption system shall have a minimum two percent slope to shed surface runoff away from the system.
3. Disturbed areas shall be loamed, seeded and mulched until stable vegetation is established.
4. The pipes exiting the distribution box shall have the same invert elevation and shall be level for a minimum of the first two feet.
5. Existing septic tank shall be pumped, crushed, and filled with sand.
6. Any part of existing soil absorption system encountered during excavation shall be disposed of in accordance with the requirements of the Board of Health.



LOCUS PLAN

USGS SHUTESBURY, MA QUAD

SCALE = 1: 25000

SOIL INVESTIGATION

Test Pit 1 EL. 97.20'
Estimated Seasonal High Ground Water EL. 82.20'
Bedrock EL. >82.20.
Class II soils.

Test Pit 2 EL. 95.75'
Estimated Seasonal High Ground Water EL. 82.75'
Bedrock EL. >82.75
Class II soils.

Water supply wells within 200 feet and wetland resource areas within 100 feet of the proposed soil absorption system are as shown on the planview. Deep observation hole log and percolation test results are in attached Soil Suitability Report. Soil Investigation and percolation testing by Robert Stover, Certified Soil Evaluator, and witnessed for the Board of Health by Michael Lombard on April 6, 1999.

DESIGN CRITERIA

Design flow is for a 4 bedroom house without a garbage grinder.
Proposed septic tank: 1500 gallons.

DESIGN CALCULATION

Required Flow: 110 gpd per bedroom.
Total required flow = 440 gpd.

Effluent Loading Rate: Percolation Rate = 15 minutes per inch.
Class II soils.
Effluent Loading Rate = 0.56 gpd/sf.

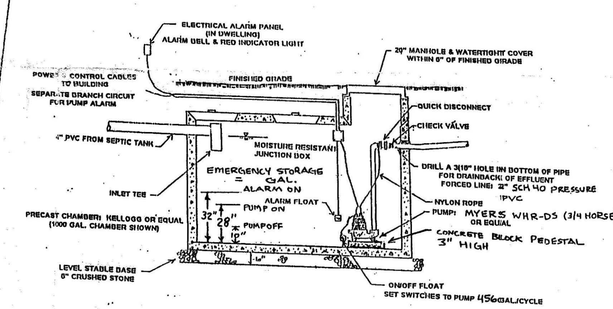
Proposed soil absorption system: 2 Leach Trenches 60' long by 3' wide 2' below dist. lines

Bottom Area: (60' x 3') 2 Trenches = 360 sf
Sidewall Area: (60' x 2') 4 Sides = 480 sf
Total Leaching Area: = 840 sf

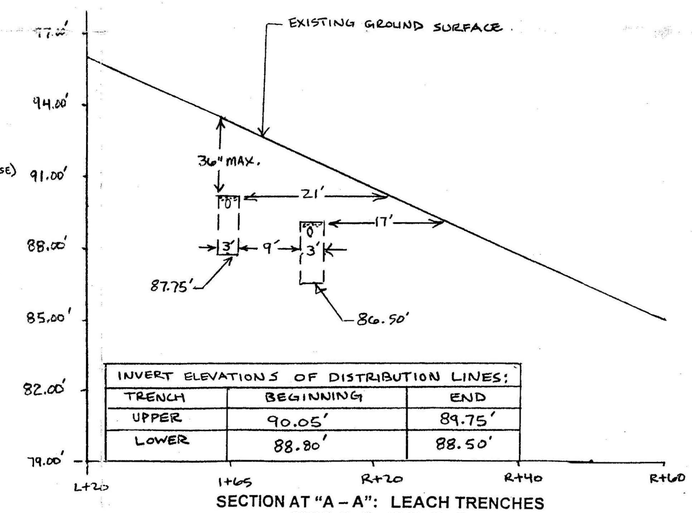
840 sf x 0.56 gpd/sf = 470 gpd
Total Required Capacity = 440 gpd (o'k)

GENERAL CONDITIONS

1. This system repair plan is prepared in accordance with Title 5, 310 CMR 15.00. Construction shall conform to these regulations.
2. The installer shall notify the designer of any unusual conditions and shall not modify the plan without the written consent of the designer.
3. All debris in the site area shall be removed and disposed of in accordance with the law.
4. There is no guarantee expressed or implied to any user of a system installed pursuant to this plan.
5. The installer shall notify the designer when the system excavation is ready for inspection and the designer and the Board of Health when the system installation is complete and prior to placement of the cover material for final inspection. Notification shall be 48 hours prior to the time of inspection.
6. The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every 3 years.



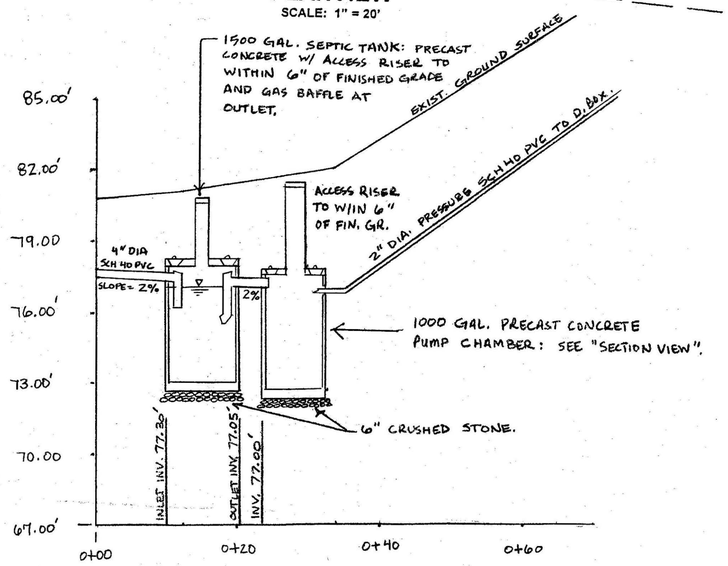
SECTION VIEW: PUMP CHAMBER



INVERT ELEVATIONS OF DISTRIBUTION LINES:		
TRENCH	BEGINNING	END
UPPER	90.05'	89.75'
LOWER	88.80'	88.50'

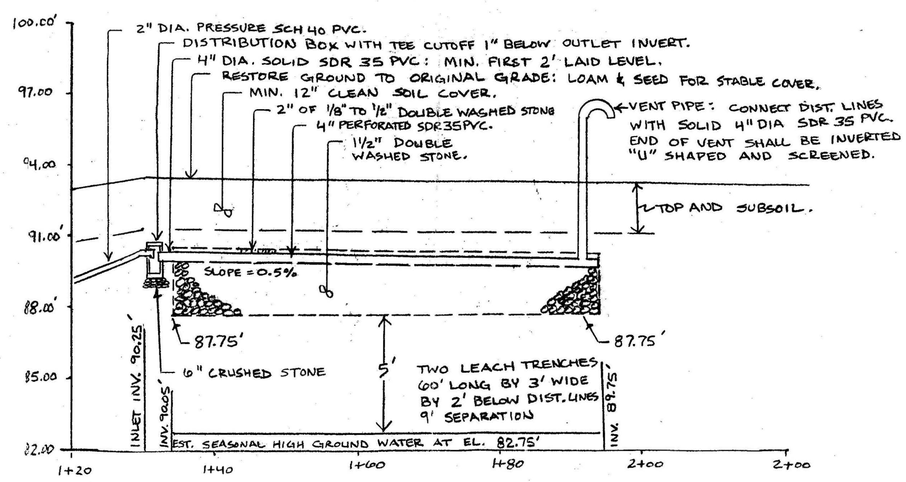
SECTION AT "A – A": LEACH TRENCHES

SCALE: H: 1" = 10' V: 1" = 3'



PROFILE OF SEPTIC TANK & PUMP CHAMBER

SCALE: H: 1" = 10' V: 1" = 3'



PROFILE OF UPPER LEACH TRENCH

SCALE: H: 1" = 10' V: 1" = 3'

COMMONWEALTH OF MASSACHUSETTS — Richard E. Costa, Civil, No. 37449 — REGISTERED PROFESSIONAL ENGINEER

11/5/99

REPAIR OF SEWAGE DISPOSAL SYSTEM

260 EAST LEVERETT ROAD, AMHERST, MASS.

WAYNE W. LANNON
260 EAST LEVERETT RD., AMHERST, MA 01002

SCALE: AS SHOWN	APPROVED BY	DRAWN BY
DATE: 11/3/99		

AMHERST CIVIL ENGINEERING
RICHARD COSTA, P.E. / ROBERT STOVER
P.O. BOX 3312, AMHERST, MA 01004-3312
(413)256-3400

DRAWING NUMBER