

233 Shays St.



07-03

ORIGINAL

2-23-07

FEE \$450 \$425⁰⁰

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT



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

Location <u>333 Shays St.</u>	Owner's Name <u>Martha Zuckerman</u>
Map/Parcel#	Address <u>333 Shays St</u>
Lot# <u>20D / 58</u>	Telephone# <u>413.256.0233</u>
Installer's Name <u>RIVER DRIVE EXCAVATING</u>	Designer's Name <u>Alan Weiss RS.</u>
Address <u>146 RIVER DRIVE, HADLEY, MA 01035</u>	Address <u>Belchertown</u>
Telephone# <u>413-584-1814</u>	Telephone# <u>413.323.5557</u>

Type of Building Residence Lot Size 146,947± sq. ft.
 Dwelling - No. of Bedrooms 4 Bedrooms Garbage grinder 01
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____
 Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 462 gpd
 Plan: Date 1/26/07 Number of sheets _____ Revision Date _____
 Title Septic System Repair Plan
 Description of Soil(s) Class I C. Sand
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 1/24/07

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New Enviro-Septic SAS.

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 2-22-07

Inspections _____

No. 07-03

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: River Drive Excavating
at 333 Shays St

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. _____ dated _____ Approved Design Flow _____ (gpd)

Installer: [Signature] Designer: [Signature] Inspector: [Signature] Date: 5/17/09

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

No. 07-03

COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair (x) Upgrade () Abandon () an individual sewage disposal system at 333 Shays St. Amherst as described in the application for Disposal System Construction Permit No. 07-03, dated 2-22-07

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

Date 3/18/07 Board of Health Peter J. McPhee, RS, MPH
for the Amherst Board of Health

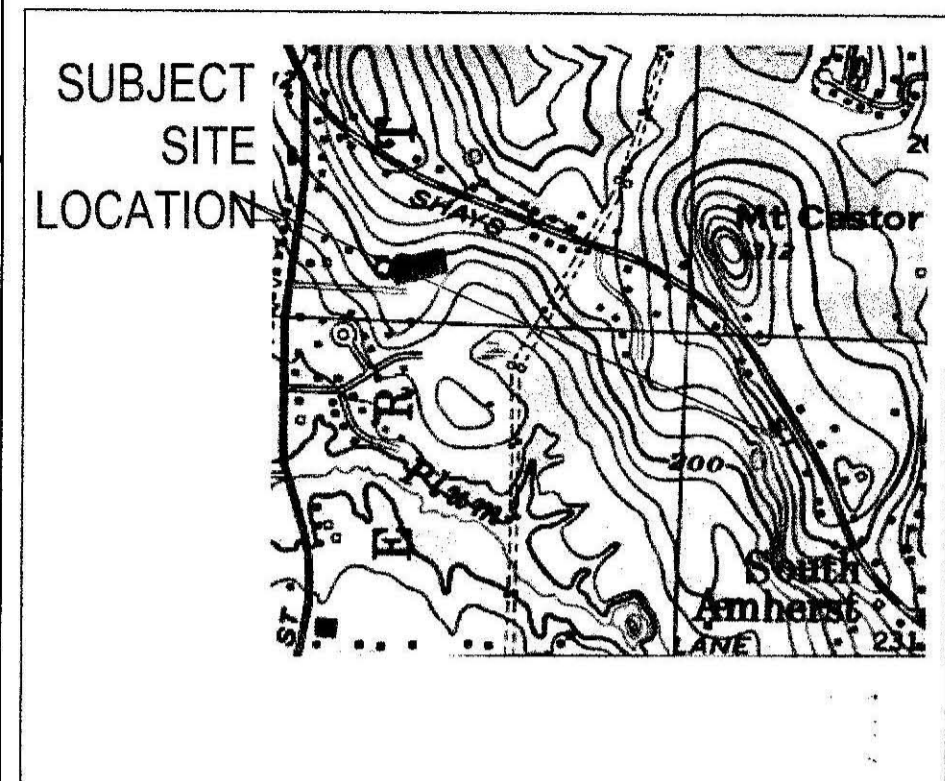
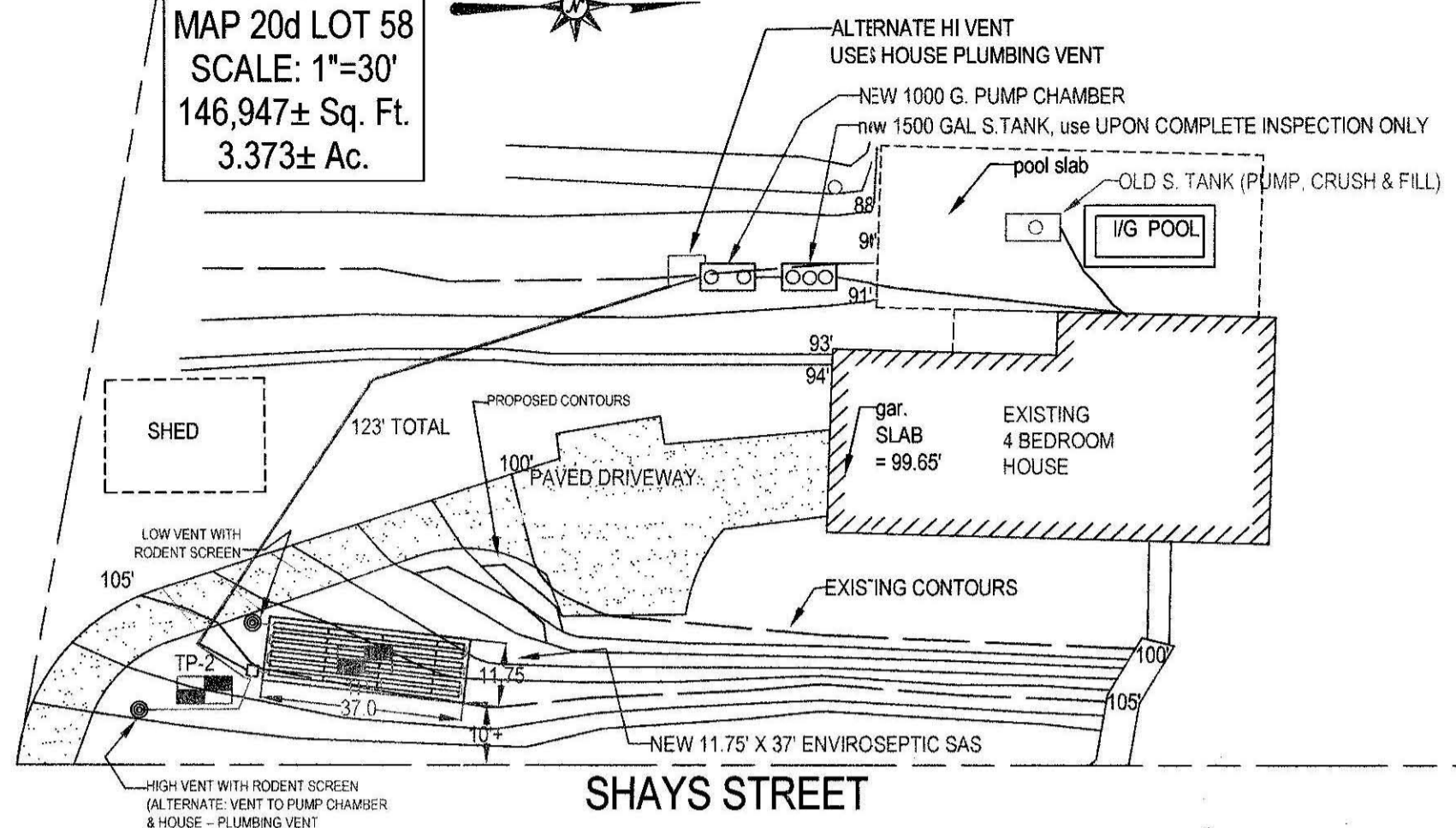
FEE \$425⁰⁰
\$450⁰⁰

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\$425⁰⁰

2006 PRESBY PLAN ADDENDUM

- ALL NEW SYSTEMS MUST HAVE DEED RECORDING I/A TECHNOLOGY USED.**
- 1.) INSTALL PVC RISERS OVER ALL D. BOX'S - MARK WITH RE-BAR.
 - 2.) INSPECTION PORT AT D. BOX AND VENTS ARE REQUIRED.
 - 3.) All openings, lines & cleanouts marked with magnetic tape.
NOTE: THESE ARE NEW STATE REGULATION REQUIREMENTS (4-22-06), NOT NECESSARILY THE OPINION OF THE DESIGNER.
 - 4.) SYSTEM MUST BE INSPECTED ANNUALLY AND RESULTS REPORTED TO BD. OF HEALTH, CONTACT DESIGNER FOR INSPECTIONS. DEED MUST BE MARKED NOTING ALTERNATIVE TECHNOLOGY APPROVED SEPTIC SYSTEM ON PROPERTY.
 - 5.) WASH OUTLET FILTER TWICE ANNUALLY AT S. TANK.

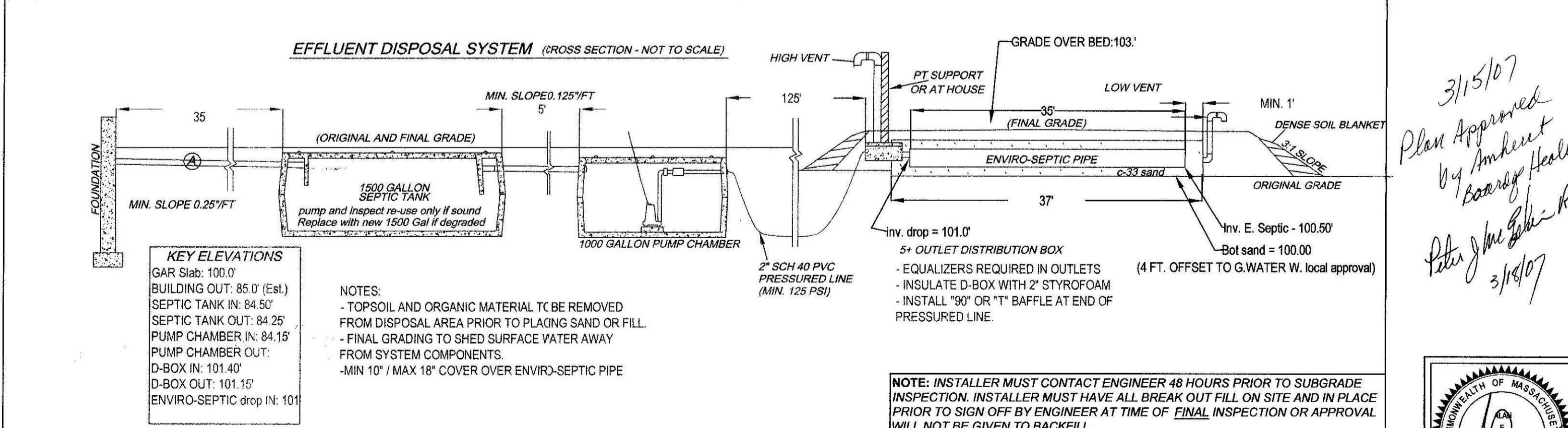
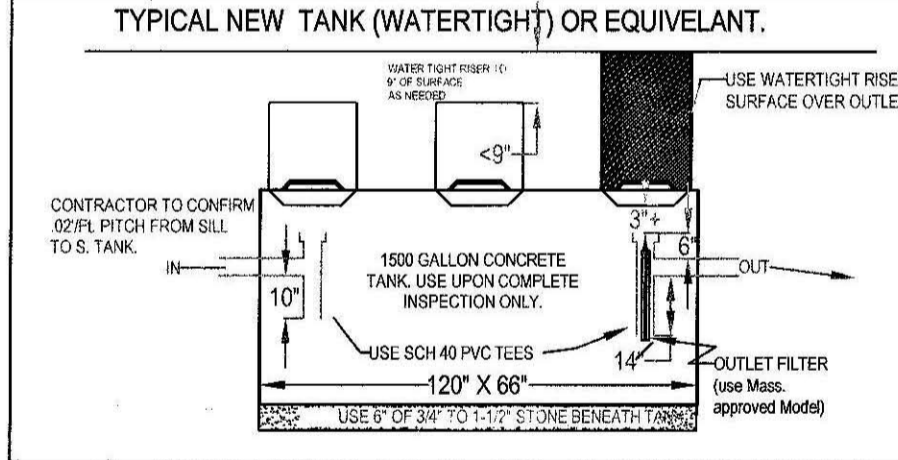
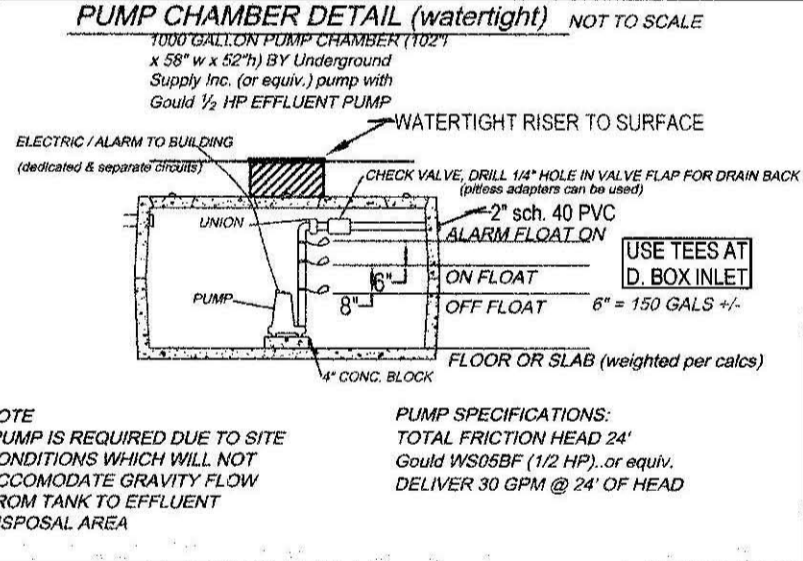
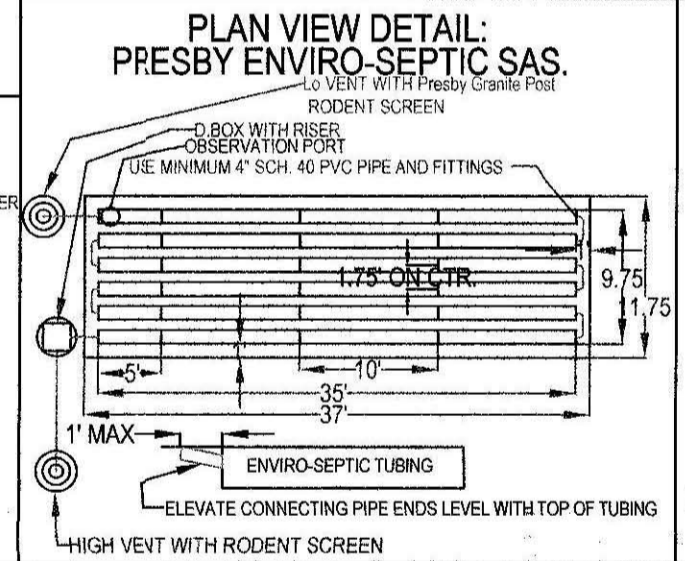
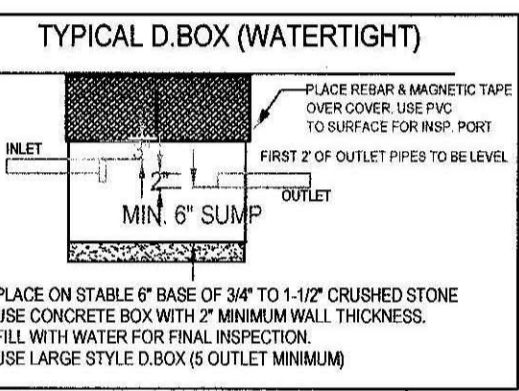
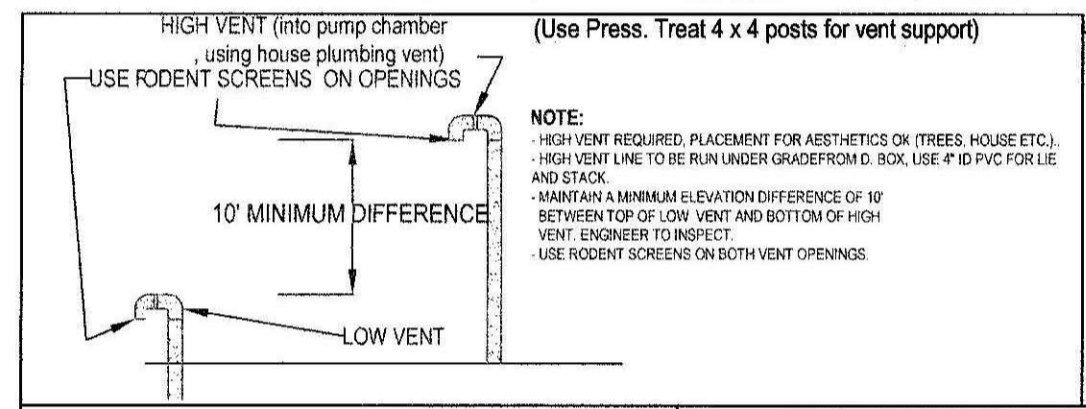
PLOT PLAN
MAP 20d LOT 58
SCALE: 1"=30'
146,947± Sq. Ft.
3.373± Ac.



DESIGN NOTES AND CALCULATIONS:

- 4 BEDROOM HOUSE: USE **PRESBY ENVIRO-SEPTIC** SYSTEM DESIGN DUE TO ELEVATION, SLOPING CONDITIONS, AND SPACE LIMITATIONS.
- MINIMUM SYSTEM REQUIREMENTS:**
 - PERC RATE = <2 MIN/IN => 0-9 MIN/IN WITH 4 BEDROOM DESIGN => 200 LINEAR FEET OF ENVIRO-SEPTIC TUBING.
 - 200' OF TUBING => 6 LINES OF ENVIRO-SEPTIC TUBING BY 35' PER LINE WITH 1.75' CTR. TO CTR. SPACING TO ACCOMMODATE MINIMUM 400 Sq. Ft. SAND BED REQUIREMENT.
 - SAND BED SIZE: 11.75' W X 37' L = 435 Sq. Ft.
- LEACHING SYSTEM DESIGN SPECS:**
 - USE ONE "MEANDERING OR BASIC SERIES" ENVIRO-SEPTIC EFFLUENT FILTRATION SYSTEM FIELD.
 - USE 5 LINES OF ENVIRO-SEPTIC TUBING, 35' LONG, SPACED 1.75' (CTR TO CTR) APART.
 - USE C-33 CONCRETE SAND 6" ABOVE, BETWEEN, AND 6" BELOW TUBING.
 - USE 1' OF C-33 CONCRETE SAND TOTAL ON ALL 4 SIDES OF TUBING.
 - USE 5' OF TITLE W SAND AROUND C-33 BED ABOVE GRADE.
 - MAINTAIN MINIMUM 10' ELEVATION DIFFERENCE BETWEEN OPENINGS OF LOW AND HIGH VENTS.
 - TOTAL AREA: 11.75' W X 37' L = 435 Sq. Ft.
- HOLDING TANKS:**
 - USE NEW 1,500 GAL S. TANK UPON COMPLETE INSPECTION ONLY
 - USE NEW 1000 GAL PUMP CHAMBER.
- NOTE:**
 - SEPTIC TANKS AND PUMP CHAMBERS WITH RECEEDING COVERS OR THIN WALLS ARE NOT ALLOWED. MAINTAIN 3" CLEARANCE FROM BOTTOM OF COVER TO TOP OF TEE.
 - INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET).
 - USE LARGE STYLE D BOX ONLY. ALL PIPING TO BE WATERTIGHT.
 - ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2', USE TEE INTO D. BOX
- NOTE:**
 - D. BOXES WITH COVERS AND WALLS LESS THAN 2" THICK ARE NOT ALLOWED PER DESIGN.
 - USE WATERTIGHT RISER TO SURFACE AT D. BOX AND S. TANK OUTLET.
 - USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
 - USE PROPER SCH. 40 PVC TEES AS SHOWN.
- SLOPING CONDITIONS: & SEASONAL HIGH GROUNDWATER:**
 - PRE & POST ELEVATION CONTOURS NOTED AS NECESSARY.
 - SUBGRADE INSP. REQ'D., TANK BALLAST CALCULATIONS SHOWN., AS NEEDED.
 - USE PRESBY FIELD DUE TO TOPOGRAPHY, RESPECT ELEVATION OF RESIDENCE AND SPACE LIMITATIONS (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO 20" MIN. AS NEEDED (INSPECTION REQUIRED).
 - ELEVATE TO BASE OF B. (MIN. 20") UNDER BED PRIOR TO CONCRETE SAND PLACEMENT.
- SOIL EVALUATION:**
 - SOIL EVALUATION BY A. WEISS 1/24/07 (D. ZAROZINSKI, BOH AGENT).
 - DEPTH OF PERC. 48"
 - PERC RATE = <2 MIN / IN
 - CLASS I SOIL RATING (COARSE SAND AND GRAVEL)
- RESTRICTIONS:**
 - GARBAGE DISPOSAL NOT ALLOWED
 - NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER).
 - NO OTHER WETLANDS-RESOURCE AREAS WITHIN 200 FEET OF SAS
 - NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
 - ENGINEER TO INSPECT SUBGRADE, AND FINAL.
 - BM=100.00 @ SILL, CONFIRM PROPER PIPE SLOPES
 - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
 - GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
 - INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
 - MUST MARK DEED HAVING ALTERNATIVE TECHNOLOGY SAS AND HAVE ANNUAL INSPECTIONS.

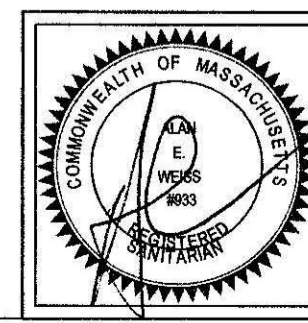
- PUMP CHAMBER/MOUNDED SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER:**
1. HAVE SEPTIC TANK PUMPED EVERY SECOND (2) YEARS.
 2. **HAVE TANK, PUMP AND PUMP CHAMBER & OUTLET FILTER & D BOX INSPECTED ANNUALLY
 3. MAKE CERTAIN TO TEST HI WATER SHUT OFF ALARM ANNUALLY.
 4. MAINTAIN AREA OVER SEPTIC AS GRASSY OR SIMILAR GROUND COVER ATTEMPTING TO MAXIMIZE SUNLIGHT TO AREA.
 5. DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF LEACHFIELD.
 6. USE ONLY LIQUID DETERGENTS IN WASHER OR DISHWASHER.
 7. CONSERVE WATER WHEREVER POSSIBLE TO LENGTHEN LIFE OF SYSTEM. USE WATER SAVING DEVICES AND FIXTURES ONLY.
 8. KEEP ALL RUNOFF DRAINS SUCH AS GUTTERS OR CURTAIN DRAINS AT LEAST 25 FEET FROM LEACHING FIELD.



TEST PIT LOG:

TP-1 EFF. ELEV: 104.0'				SOIL EVALUATOR: ALAN WEISS				DATE OF EVALUATION: 10/03/06			
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL)	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL)	MATERIAL:		
0-8	Ap	FSL	(10 YR 3/3)	FRIABLE	0-8	Ap	FSL	(10 YR 3/3)	FRIABLE		
8-20	Bw	SL	(10 YR 5/6)		8-22	Bw	SL	(10 YR 5/6)			
20-96	C1	CS	(2.5 Y 5/6)	C SAND & GRAVEL	22-108	C1	CS	(2.5 Y 5/6)	C SAND & GRAVEL		
96-110	C2	FSC	(7.5 YR 5/6)	GLACIAL TILL	108-120	2	FSC		GLACIAL TILL		
OXIDES: (7.5 YR 5/6) OBSERVED AT 96"				OXIDES: (7.5 YR 5/6) OBSERVED AT 96"							
EHW: 96" 96"				EHW: 96"							
STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED							
WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED							
BEDROCK: 110' +				BEDROCK: 120' +							

3/15/07
Plan Approved by Amherst Board of Health
Peter J. McElhinney
3/15/07



ATTENTION INSTALLER!!
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A **MINIMUM** OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

- GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**
- 1.) HAVE TANK PUMPED EVERY 2 YEARS.
 - 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
 - 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
 - 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
 - 5.) CLEAN OUTLET FILTER TWICE (2) ANNUALLY.

SEPTIC SYSTEM REPAIR PLAN FOR BRIAN & MARTHA ZUCKERMAN
333 SHAYS STREET
AMHERST, MA.

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007

P/HD NO: (413) 323-5957
FAX: (413) 323-4916
DATE: 1/26/07
SCALE: 1"=30'

DRAWN BY: ALAN WEISS
PRESBY CERTIFICATE NUMBERS: 2131MAES 2766MAES
REVISED:

DRAWING NUMBER: 105-2177-0413

e-Mail: ALWEISS@charter.net



**COLD SPRING ENVIRONMENTAL
CONSULTANTS INC.**

received
6.4.07

- 2IE Site Investigations
- Subsurface Investigations
- Pollution Remediation
- LSP on Staff
- Forensic Septic Investigations

- Percolation Tests
- Septic Designs
- Regulatory Compliance
- Recycling and Solid Waste
- Second Opinions

May 21, 2007

Amherst Board of Health

RE:Septic System (Presby Enviro-septic)
Installation Inspection
333 Shays Street Amherst (**Zuckerman Property**)

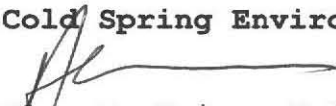
On this date, we inspected the installation of a Soil Absorption System (**S. Tank, P. Chamber & Enviro-septic L. Field**) We found the installation to be complete (except for completion of cover material and final fill) and in compliance with our plans and 310 CMR 15.000.

The installer representative (**River Drive Excav.**) & our inspection noted that the system was built properly, in accordance with the state regulations and our plans. The contractor was requested to have sufficient breakout soil on site and properly cover the system according to our plans and may backfill the system after review by local Health Department representatives.

1. **You must note that the Presby Enviroseptic is considered an Innovative/Alternative System requiring annual inspections.**
2. **A Deed notation regarding the installation of such system is required and,**
3. **The installer is required to send the registration form to the manufacturer and local board of Health.**

Sincerely,

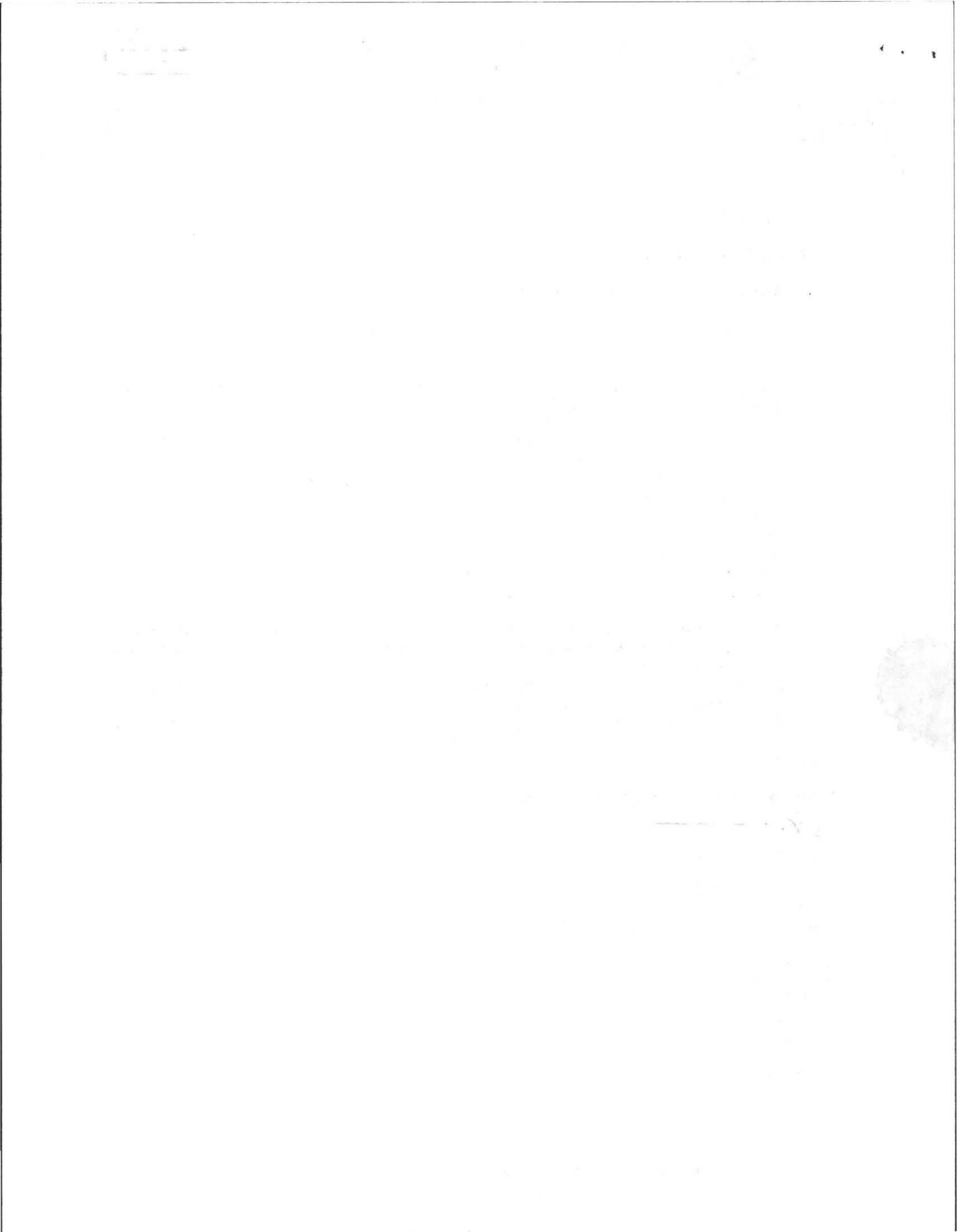
Cold Spring Environmental Consultants, Inc.


Alan E. Weiss, M.S., L.S.P.
President
Principal Hydrogeologist
Licensed Site Professional #6442
Registered Sanitarian #933

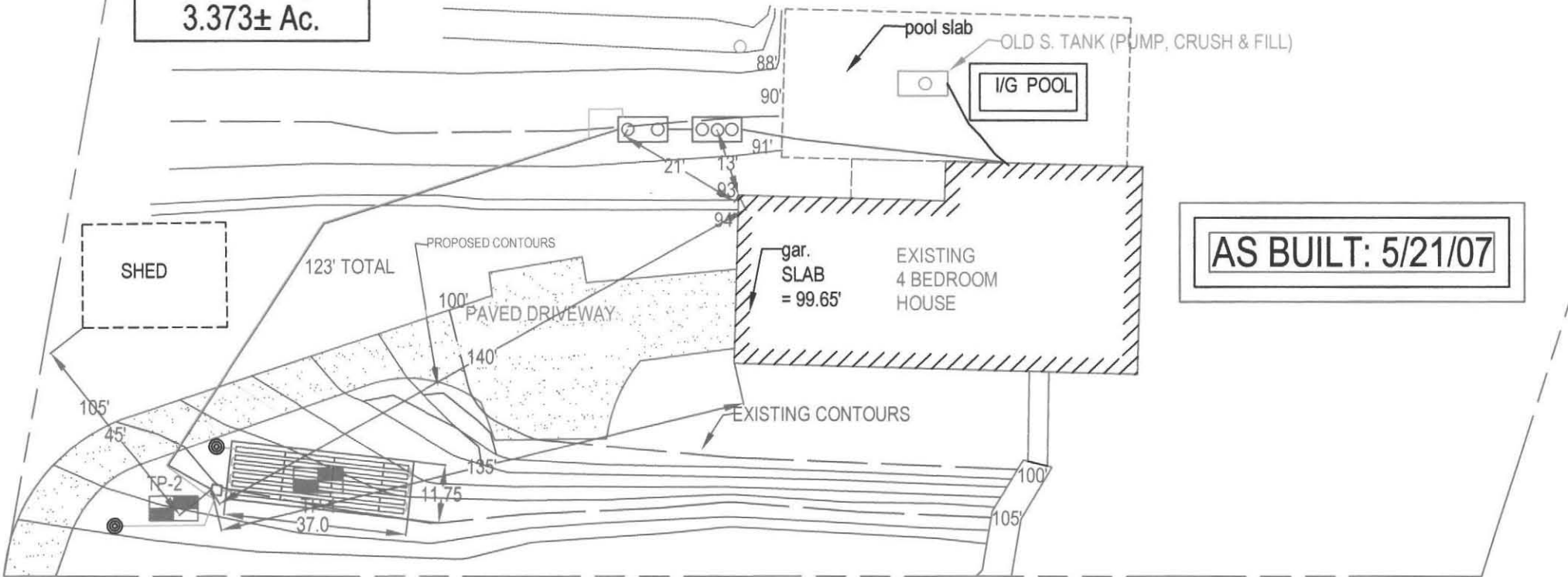
Cold Spring Environmental
350 Old Enfield Road
Belchertown, Ma. 01007

413-323-5957, phone
413-323-4916, fax

****As BUILT ATTACHED: SYSTEM HAS OUTLET FILTER ON S. TANK—CLEAN ANNUALLY!!**

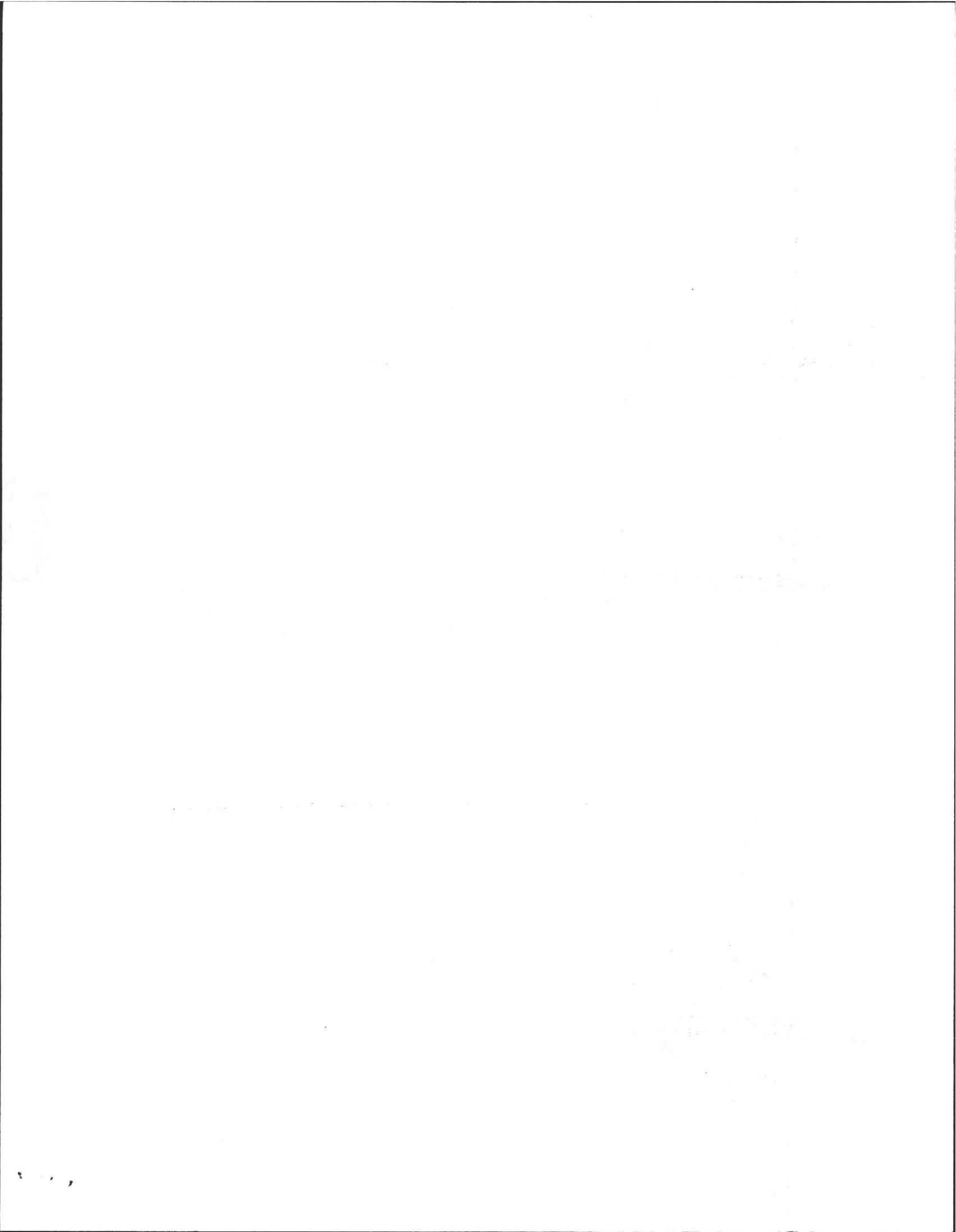


PLOT PLAN
MAP 20d LOT 58
SCALE: 1"=30'
146,947± Sq. Ft.
3.373± Ac.



AS BUILT: 5/21/07

SHAYS STREET





AMHERST *Massachusetts*

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002
(413) 256-4077

(413) 256-4033 ENVIRONMENTAL HEALTH SERVICES
(413) 256-4053 (FAX)

SUB-GRADE INSPECTION

Location: 333 Shays ST

Property Owner: Zuckerman

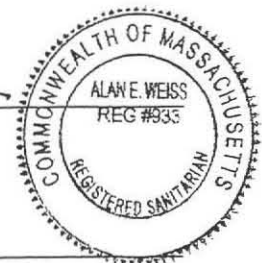
I certify that I have inspected the excavation to sub-grade of the proposed septic system leaching area prior placement of any fill of stone, or construction of any portion of the system.

I further certify that:

1. All 'A' and 'B' horizon soils (topsoils and subsoils) were removed in the area of the system.
2. There was no evidence of ground water in the excavation.
3. There was no evidence of "mottles" that would be in conflict with the findings of the deep hole soil profile.
4. That the excavation was accomplished to the proper depth and in conformance with the approved plans.

ALAN WEISS
Designers Name

[Signature]
Designers Signature



COLD SPRING ENVIRONMENTAL, INC.
Street Address 350 OLD ENFIELD RD.
BELCHERTOWN, MA 01007

Town, State, Zip Code

413-323-5957
Telephone Number



