

575 NORTHEAST ST.

~~WATKINS ON WELLS  
BE COMMISSIONING~~

OLD HOUSE



No. 07-02

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	575 Northeast St.	Owner's Name	Roger Chorowatti
Map/Parcel#	9C-28	Address	15 Foxglove Ln.
Lot#		Telephone#	253-2108
Installer's Name ->		Designer's Name	Alan Weiss, R.S.
Address		Address	Belchertown, MA.
Telephone#		Telephone#	

Type of Building Baroque House Lot Size 35,000 sq. ft.  
 Dwelling - No. of Bedrooms \_\_\_\_\_ Garbage grinder No  
 Other - Type of Building \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( ), Cafeteria ( )  
 Other Fixtures \_\_\_\_\_  
 Design Flow (min. required) 110 gpd Calculated design flow 950 Design flow provided 572 gpd  
 Plan: Date 1/22/07 Number of sheets 2 Revision Date 3-7-07  
 Title Septic System Repair Plan  
 Description of Soil(s) Class I: sand  
 Soil Evaluator Form No. \_\_\_\_\_ Name of Soil Evaluator A. Weiss Date of Evaluation 1/10/07  
+ 8/31/07

DESCRIPTION OF REPAIRS OR ALTERATIONS New sitark, P. chamber + L. field, 575 Northeast St (old house)

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.  
 Signed [Signature] Date 1/25/07  
104-2051-0831-1

Inspections \_\_\_\_\_

No. 07-02

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: D.M.O. Const  
 at 575 Northeast 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: 4/30/07

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

No. 07-02

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 575 NORTHEAST STREET as described in the application for Disposal System Construction Permit No. 07-02, dated 3/07/07

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. Boston, MA Date 3/5/07 Board of Health [Signature]

1917  
MAY 10

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- Title V Inspections
- 21E Site Investigations
- Hydrogeological Consultation
- Pollution Remediation



**COLD SPRING ENVIRONMENTAL  
CONSULTANTS, INC.**

- Percolation Tests and Septic Designs
- Regulatory Compliance
- Recycling and Solid Waste
- Expert Witness Testimony

January 22, 2007

Mr. David Zarozinski, Sanitarian  
Amherst Board of Health  
Amherst, MA 01002

**RE: Septic System Residence Repair and Local Upgrade Approval  
575 Northeast Street, Amherst**

Dear Mr Zarozinski :

With the intent of full compliance with 310 CMR 15.000, (Sanitary Septic Code, Title V), and the understanding that maximum feasible upgrade should be achieved to maximize protection of public health and safety and the environment, a Local Upgrade Approval is requested for the repair of the system at the above mentioned property. It is the opinion of the writer that strict enforcement of the code would be manifestly unjust (310 CMR 15.410). The following Local Upgrade Approval is noted:

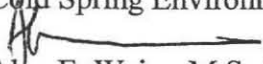
-lack of 5 feet of minimum groundwater separation to the bottom of the stone of the absorption system (310 CMR 15.405,I,2), 4' proposed.  
(The situation requires this approval in order to minimize fill placement in order to not create problematic surface runoff patterns associated with excessively and unnecessarily raising the ground).

It is understood that the system was sized using an appropriate percolation test and soil identification technique approved by the Massachusetts DEP that utilizes the most conservative/appropriate loading factor for that soil (**Class 1**) (**Perc= $<2$  Min/In**).

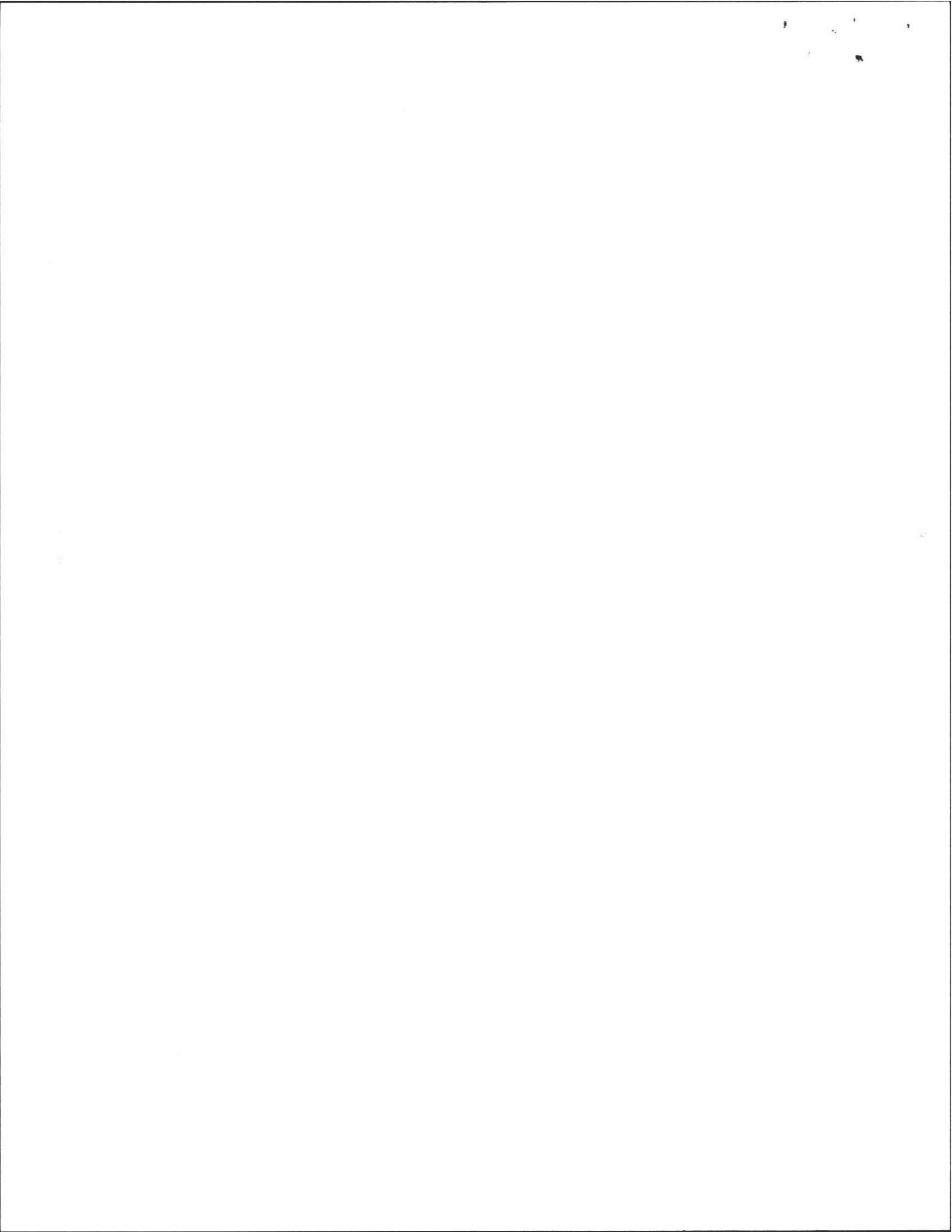
It is my opinion that given all the possible scenarios for a new disposal system, and due to spatial constraints, this plan best meets the intent on the Sanitary Code. It is understood that my client must provide you this letter. In addition, a copy of the Local Upgrade Approval from your board and a Plan copy must be sent to Mass. DEP, 436 Dwight St., Springfield, 01103, by the owner, after your approval and prior to the start of construction.

Please feel free to contact me should you have any questions.  
Sincerely,

Cold Spring Environmental Consultants, Inc.

  
Alan E. Weiss, M.S., R.S.  
President, Principal Hydrogeologist, Registered Sanitarian Lic. #933

FAXED  
TO  
MANN  
WEISS  
3/27/07



Commonwealth of Massachusetts  
Amherst, Massachusetts

Application for Local Upgrade Approval  
Title 5, 310 CMR 15.000  
DEP Approved form required by 310 CMR 15.403(1)

To be submitted to Local Approving Authority/Board of Health: For the upgrade of a failed or nonconforming system with a design flow of < 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

To be submitted to DEP: For the upgrade of a failed or nonconforming system with a design flow of 10,000 up to 15,000 gpd and/or for upgrade of a state or federal facility, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

**NOTE:** Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of new design flow to a cesspool or privy or the addition of new design flow above the existing approved capacity of a system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

1) Facility/system owner

Name Roger Cherwatti, Buyer  
Address 15 Foxglove Ln.  
Phone # 253-2108  
Address of facility 575 Northeast St.

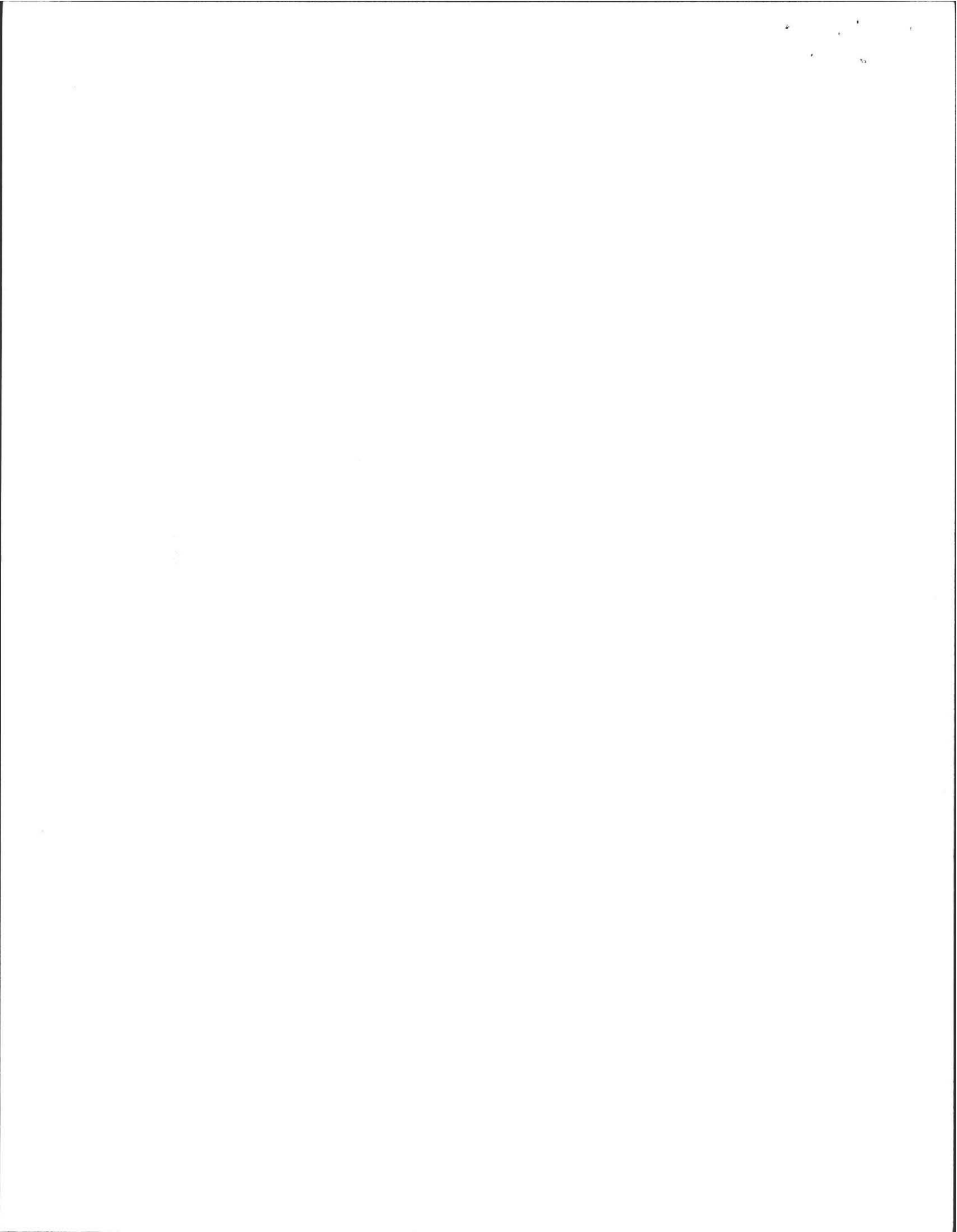
2) Applicant (if different from above)

Name Not App.  
Address \_\_\_\_\_  
Phone # \_\_\_\_\_

3) Type of facility

residential  commercial  school  
 institutional  
(Specify) \_\_\_\_\_







4) Type of existing system

privy  cesspool(s)  conventional system  
 Other (describe) \_\_\_\_\_  
\_\_\_\_\_

Type of soil absorption system (trenches, chambers, pits, etc.)

?  
\_\_\_\_\_  
\_\_\_\_\_

5) Design flow based on 310 CMR 15.203

a) Design flow of existing system \_\_\_\_\_ gpd

Approved?  yes approval date \_\_\_\_\_  
 no why? \_\_\_\_\_

b) Design flow of proposed upgraded system 572 gpd (SAR.) = 5526 GPD

c) Design flow of facility \_\_\_\_\_ gpd

5) Proposed upgrade of existing system is

a)  Voluntary

Required by order, letter, etc. (attach copy)

Required following inspection required by 310 CMR 15.301 (provide date -  
inspection form was submitted to the approving authority) 8/16/04 (date)

b) Describe the proposed upgrade to the system

New L. Field, S. Tank + P. Chamber.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c) Which of the following are applicable to the proposed upgrade?

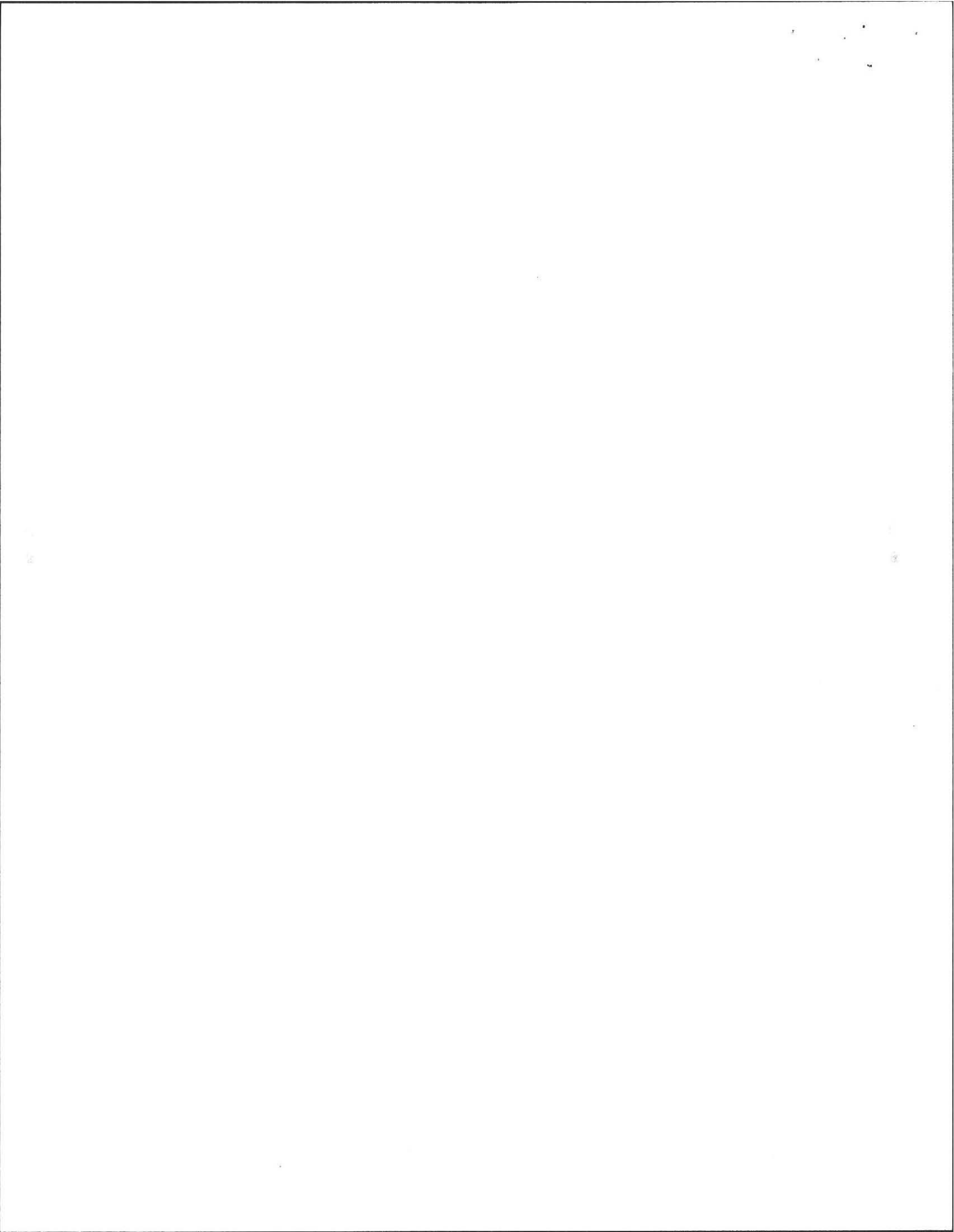
Reduction of setback(s) (list setbacks to be reduced with proposed setback distances)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Percolation rate of 30-60 minutes per inch (state actual perc rate)

\_\_\_\_\_





\_\_\_ Up to 25% reduction in subsurface disposal area design requirements (state required & proposed size) \_\_\_\_\_

\_\_\_ Relocation of water supply well (identify well, describe relocation)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

✓ Reduction of required separation between bottom of SAS & high groundwater (specify proposed reduction & perc rate) 5ft → 4ft Perc. (< 2 MPI)

\_\_\_ Other requirements of 310 CMR 15.000 that cannot be met (specify sections of the Code)  
\_\_\_\_\_  
\_\_\_\_\_

System upgrades that cannot be performed in accordance with 310 CMR 15.404 & 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410-15.417.

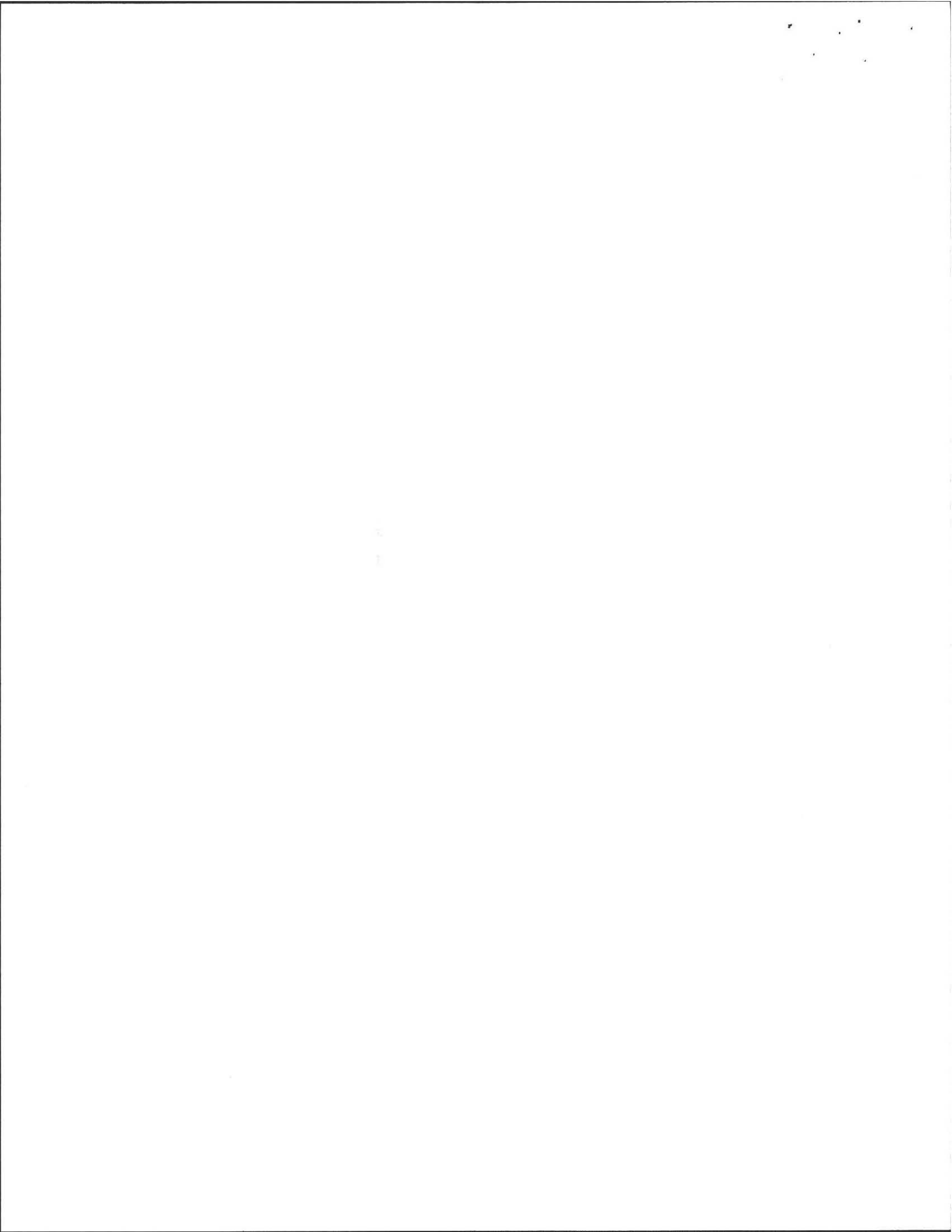
7) If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high ground water elevation pursuant to 310 CMR 15.405(1)(i)(1). The evaluator must be a member or agent of the local approving authority:

Distance from soil absorption system to high groundwater  
4 feet

As determined by:

Evaluator's name Alan Weiss (TUM Div.)  
Evaluator's signature Al  
Date of evaluation 8/31/04 + 1/16/07.





FORM 9A - APPLICATION FOR LOCAL UPGRADE APPROVAL  
PAGE 4 OF 5

8) Notice to Abutters

No application for upgrade approval in which the setback from property lines or a private water supply well is reduced shall be complete until the applicant has notified all abutters whose property or well is affected by certified mail at least ten days before the Board of Health meeting at which the upgrade approval will be on the agenda. Such notice shall include the date, time and place where the upgrade approval will be discussed.

If the Department is the approving authority, then such notice to abutters must be completed prior to the date of submission of the application to the Department.

The notices to abutters shall include a copy of the completed application form and shall reference the standards set forth in 310 CMR 15.402 through 15.405.

List of affected Abutters:

Abutter Name _____ Address _____	Date notified _____
Abutter Name _____ Address _____	Date notified _____
Abutter Name _____ Address _____	Date notified _____
Abutter Name _____ Address _____	Date notified _____

9) Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible (each section must be completed):

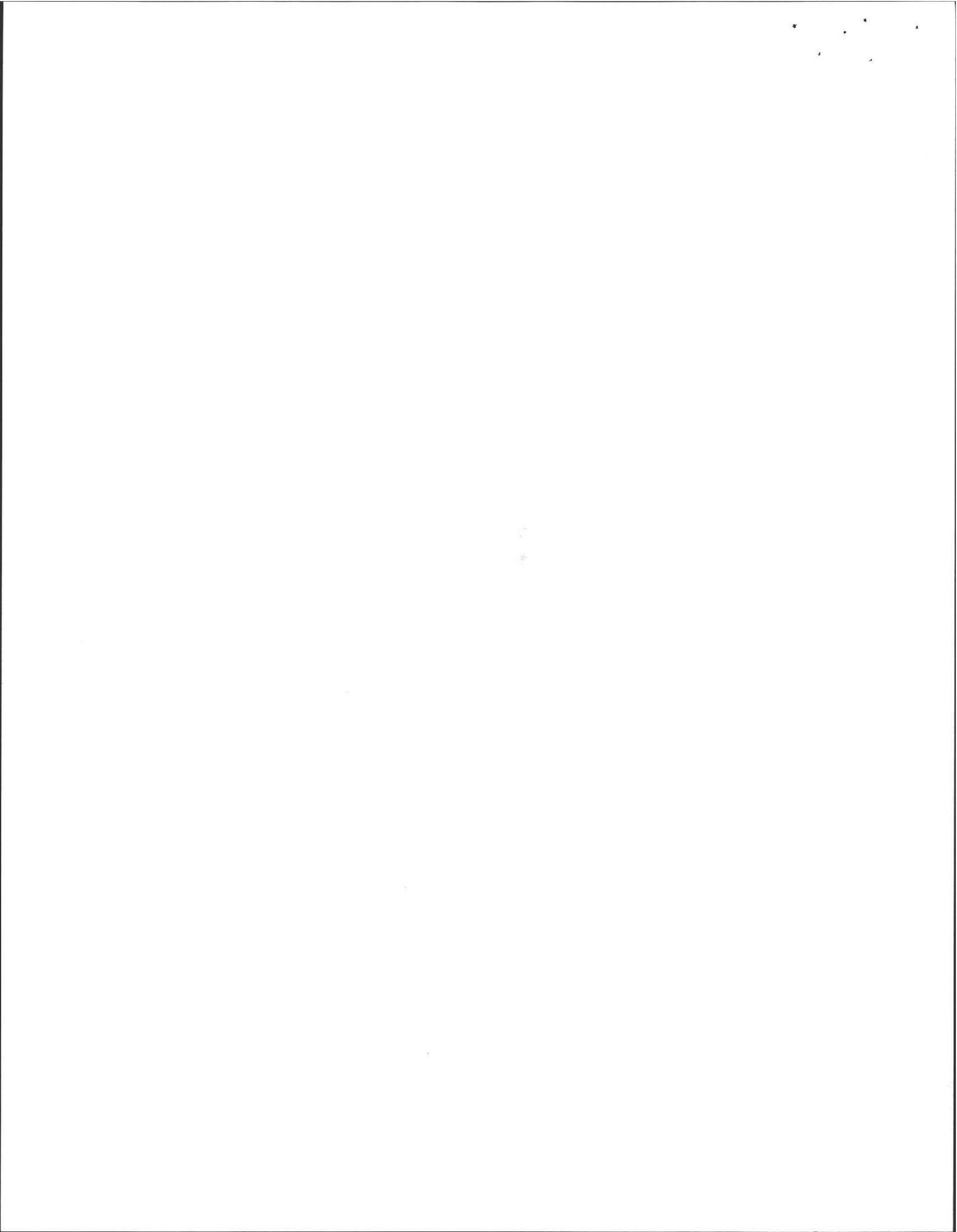
a) an upgraded system in full compliance with 310 CMR 15.000 is not feasible:

- Due to Topography + minimize runoff impact.

b) an alternative system approved pursuant to 310 CMR 15.283-15.288 is not feasible:

- would not change grades.





- c) a shared system is not feasible:  
- Not applicable.
- d) connection to a sewer is not feasible:  
- Not available.

10) An application for a disposal system construction permit, including all required attachments (e.g. plans & specifications, site evaluation forms), must accompany this application. Is the DSCP application attached?  yes  no

11) Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for knowing violations."

\* J. Roger Cherevatt 1/25/07  
Facility owner's signature Date

\* J. Roger Cherevatt  
Print Name

Alan Weiss, RS 1/22/07  
Name of preparer Date

COLD SPRING ENVIRONMENTAL, INC.  
350 OLD ENFIELD RD., BELLCHEERTOWN, MA  
Telephone # & address of preparer  
413-323-5957

NOTE: Title 5, 310 CMR 15.403(4), requires the system owner or operator to submit to the Department a copy of the local upgrade approval upon issuance by the Board of Health and prior to commencement of construction.



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Commonwealth of Massachusetts  
Massachusetts

**LOCAL UPGRADE APPROVAL ISSUED PURSUANT TO 310 CMR 15.404 & 15.405**

Facility/system owner: Name: ROBERT CHARAWATTI Address: 15 FOXGLOVE LANE, AMHERST, MA  
Address of facility 575 NORTHEAST STREET

Type of facility: residential  institutional  commercial  school   
design flow per 310 CMR 15.203 550 (572) gpd

System designer: Name ALAN WEISS Address 350 OLD ENFIELD ROAD Phone No. 413-323-5957  
BELCHERTOWN, MA 01007

Local Upgrade Approval granted for:

reduction in setback(s) (specify) \_\_\_\_\_

perc rate of 30-60 min./inch (specify rate) \_\_\_\_\_

reduction in SAS area of up to 25%  
(specify % reduction & size of SAS) \_\_\_\_\_

reduction in separation between 5' TO 4' SEPARATION PERC < 2 min/in  
SAS & high groundwater  
(specify reduction & perc rate)

relocation of a well (explain) \_\_\_\_\_

List local variances granted (no DEP approval required per 310 CMR 15.412(4))

List variances granted requiring DEP approval

Board of Health Approval of proposed upgrade

Thomas Dion  
Signature

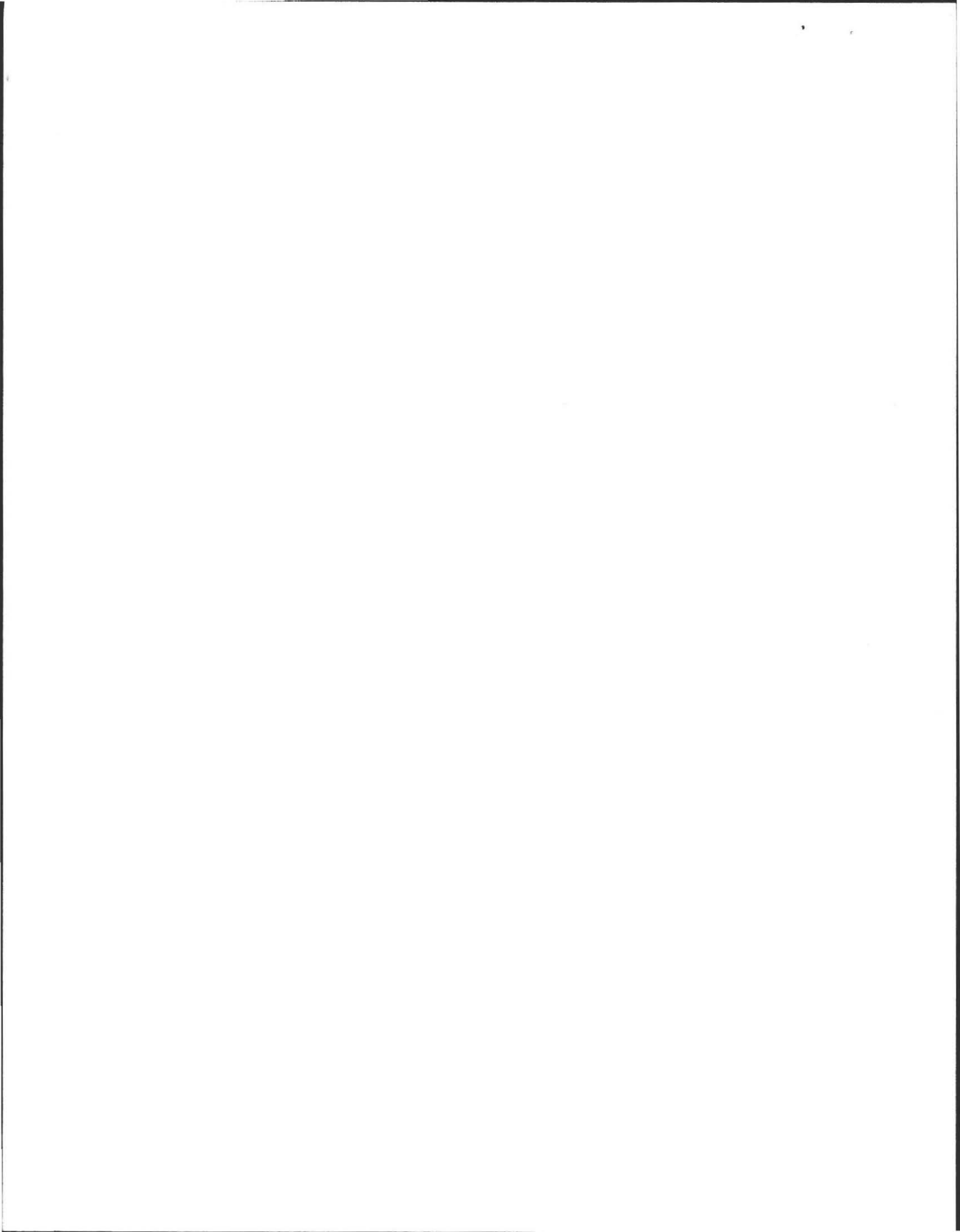
AMHERST  
City/town

THOMAS DION ASSISTANT SANITARIAN  
Name & Title

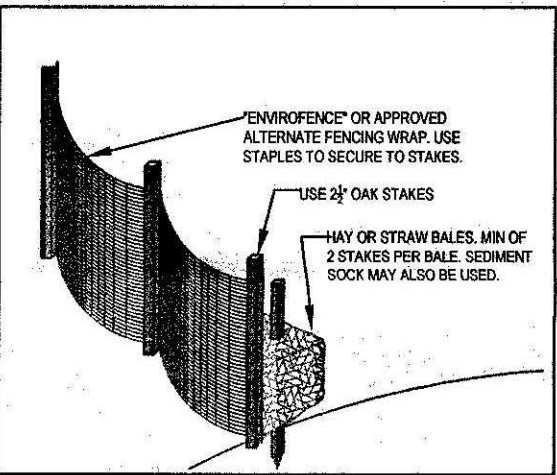
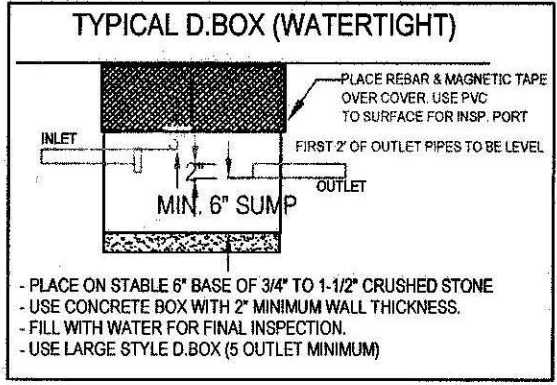
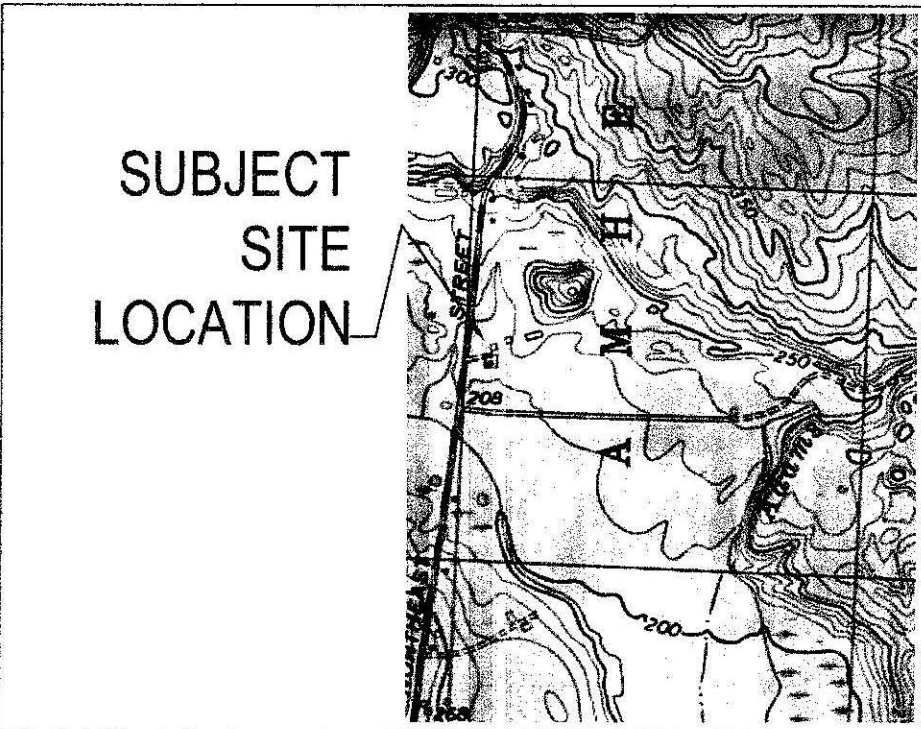
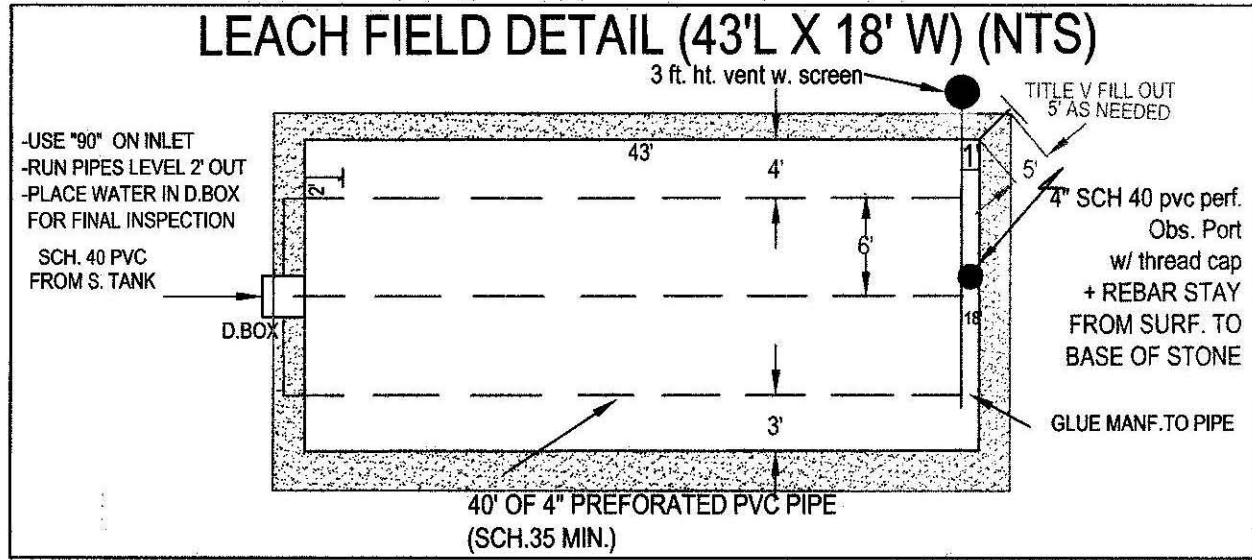
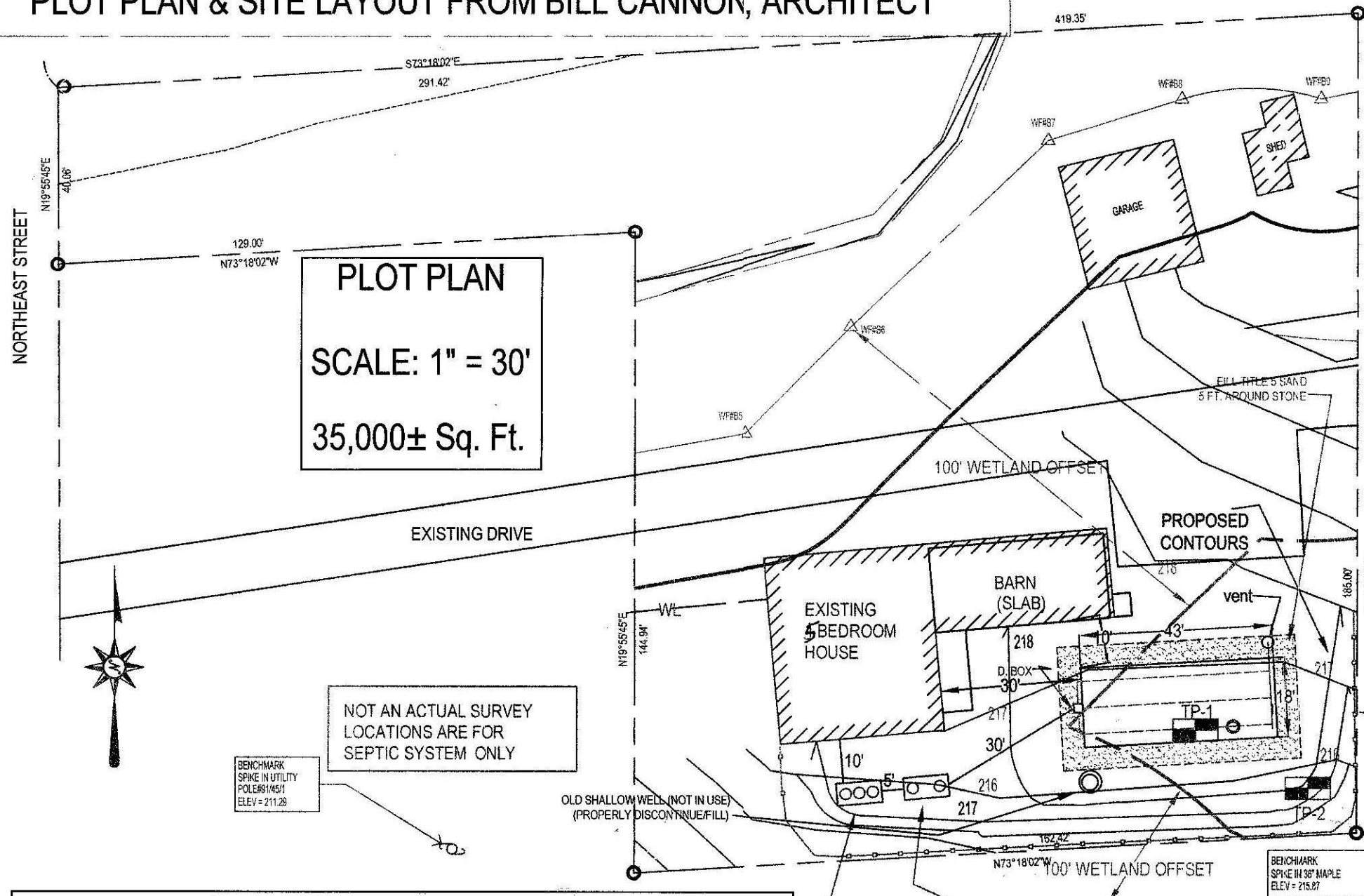
3/16/07  
Date  
FOR AMHERST B.O.H.

THE SYSTEM OWNER OR OPERATOR SHALL PROVIDE A COPY OF THIS LOCAL UPGRADE APPROVAL TO THE APPROPRIATE REGIONAL OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER POLLUTION CONTROL UPON ISSUANCE BY THE LOCAL APPROVING AUTHORITY & BEFORE COMMENCEMENT OF CONSTRUCTION.

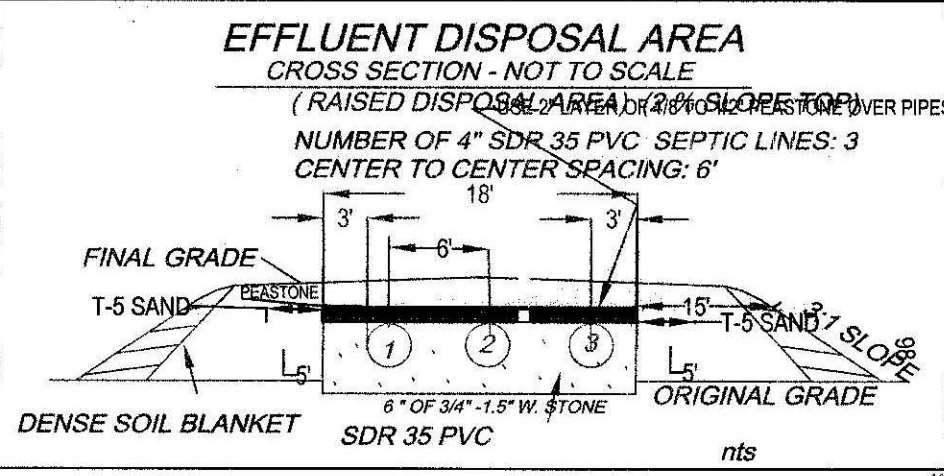
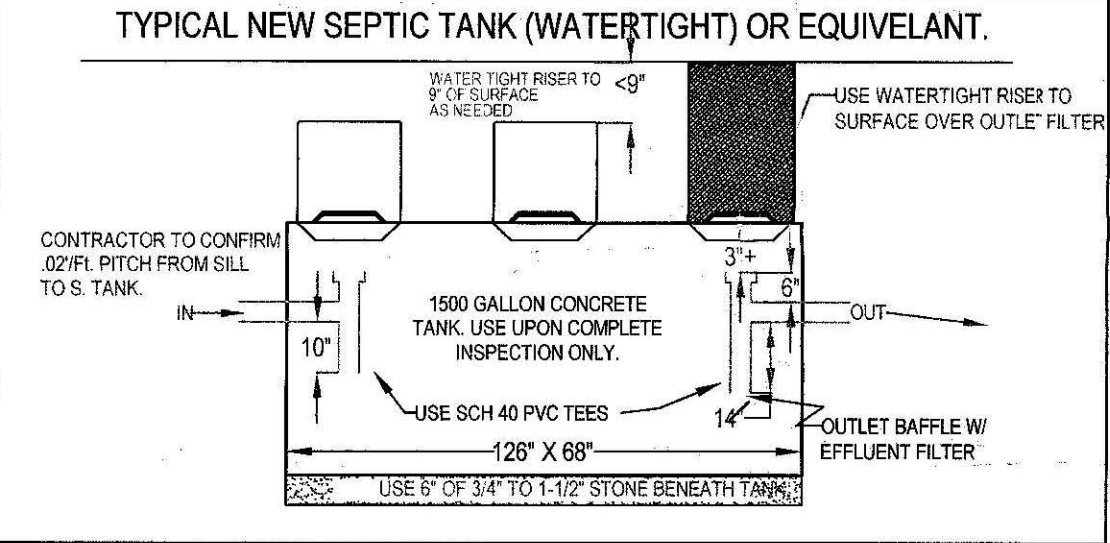




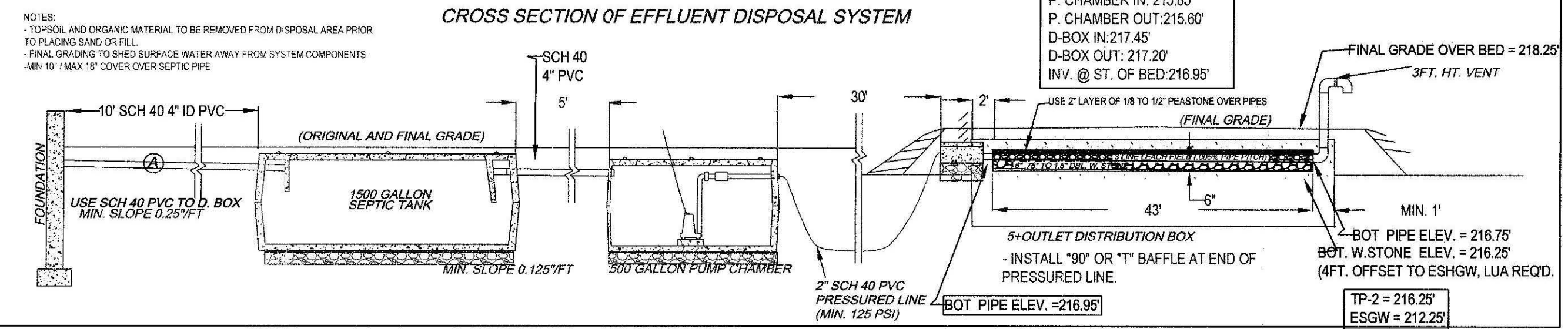
**PLOT PLAN & SITE LAYOUT FROM BILL CANNON, ARCHITECT**



- DESIGN NOTES AND CALCULATIONS:**
- 5 BEDROOM HOUSE: (5 BEDROOM design) USE **PUMPED LEACH FIELD SEPTIC SYSTEM** DESIGN FOR 5 BEDROOM = 550 GPD Min (AS PER ASSESSORS CARD VERIFICATION) @ <2 MIN/IN PERC PERC = .74 GAL / SF (CLASS 1 LOADING FACTOR). 18' W X 43' L LEACH FIELD = 774 SF X .74 GPD/SF = 573 GPD
  - GARBAGE DISPOSAL NOT ALLOWED
  - NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS.
  - NO OTHER WETLANDS WITHIN 50 FEET OF SAS (WETLAND DELINEATION BY C. DAUCHY)
  - USE NEW 1,500 GAL. S. TANK WITH OUTLET FILTER AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
  - 6A USE NEW 1,500 G. PUMP CHAMBER  
- INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET) must have 3" airspace over top of tee.
  - 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.
  - PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AREA NOTED REQUIRED.
  - SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
  - USE FIELD DUE TO TOPOGRAPHY, SOIL TYPE, HIGH GROUNDWATER, PERC RATE, AND ELEVATION OF RESIDENCE (310 CMR 15.240), use for TITLE 5 SAND 5 FEET AROUND STONE.
  - USE 2% MIN. SLOPE OVER SAS  
- CLEAR TOP AND SUB TO 24" MIN. AS NEEDED (INSPECTION REQUIRED).  
- CLEAR TO BASE OF B (MIN. 24") UNDER BED PRIOR TO TITLE 5 SAND PLACEMENT.  
- EXCAVATE EXISTING SYSTEM AND REMOVE AS NEEDED, MOVE WATER LINE AS NEEDED.
  - SOIL EVALUATION BY A.A. WEISS 8.31.04 (T. DION INSPECTOR)  
- DEPTH OF PERC. = 40" PERC - USE 2004, PERC RATE = <2 MIN / IN, CLASS I SOIL RATING (SAND)
  - NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
  - ENGINEER TO INSPECT SUBGRADE (WITH SIGN-OFF), AND FINAL.
  - BM-AS NOTED, 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.
  - Requires LOCAL UPGRADE APPROVAL 4 FT. OFFSET TO GROUNDWATER, (STATE CODE MET WITH LUA), 310 CMR 15.405I.
  - INSTALL **PVC RISERS** OVER D. BOX'S BURIED DEEPER THAN 9" D  
PLACE IRON REBAR ON TOP.
  - HAVE 4" PERFORATED, sch 40 PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH SCREW RISER TO 3" OF SURFACE, MARKED WITH REBAR. **All OPENINGS & COMPONENTS marked with magnetic tape**
  - HAVE PERFORATIONS IN BED AT 4 AND 8 O-CLOCK POSITIONS.  
**NOTE: THESE ARE NEW STATE REGULATION REQUIREMENTS (4-22-06), NOT NECESSARILY THE OPINION OF THE DESIGNER.**



**BALLAST CALCS (NEW 1500 GAL. S. TANK & CHAMBER LOWEST):**  
TOTAL OUTSIDE VOLUME IN G. WATER (10.5' L X 5.8' W X 1.65' IN WATER)  
(ASSUMING 1.65 FEET IN WATER TABLE, IE., BOT TANK IS 210.60' ESHWT IS 212.25')  
61 CF X 7.48 GAL/CF = 456 GALLONS, DISPLACED  
456 GALLONS X 8.3 LBS/GAL = 3,787 POUNDS  
3,787 POUNDS - 12,000 POUNDS/TANK = 0 LBS REQUIRED.  
NO BALLAST TO BE PROVIDED BY THICKEND BASE OR SLAB OVER TANK  
10.5' X 5.8' X .0' = 0 CF = 0 CY X 4.0 TONS/CY = 0 TONS = 0 POUNDS PROVIDED BY 0" CONCRETE



SHEET 1 OF 2

**TEST PIT LOG:**

TP-1 EFF. ELEV: 216.25'		SOIL EVALUATOR: ALAN WEISS		DATE OF EVALUATION: 8-31-04	
DEPTH:	HORIZ. TEXTURE (MUNSELL):	MATERIAL:	DEPTH:	HORIZ. TEXTURE (MUNSELL):	MATERIAL:
0' - 6"	A FSL (10 YR 3/3)	FRIABLE, LOOSE	0' - 6"	A FSL (10 YR 3/3)	FRIABLE, LOOSE
6' - 22"	Bw FSL (10 YR 5-6)	FRIABLE	6' - 24"	Bw FSL (10 YR 5-6)	FRIABLE
22-70"	C1 S (2.5 Y 4/3)	LOOSE, WELL SORTED	24" - 96"	C1 S (2.5 Y 4/3)	LOOSE, WELL SORTED
70-100"	C2 FSL	MED-CRS SAND & GRAVEL	108-126"	C2 FS (2.5 Y 4/3)	MED-CRS SAND & GRAVEL
OXIDES: 48"		48"	OXIDES: 48"		48"
EHWT: 48" = 212.25'			EHWT: 48"		48"
STANDING H2O: 76"			STANDING H2O: 76"		76"
WEEPING: 76"			WEEPING: 76"		76"
BEDROCK: 100" +			BEDROCK: 96"		96"

**REVISED SEPTIC SYSTEM REPAIR PLAN FOR ROGER CHEREWATTI**  
755 NORTHEAST STREET  
AMHERST, MA

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

PHONE: (413) 323-5957  
FAX: (413) 323-4916  
DATE: 1/22/07  
SCALE: 1"=30'

APPROVED: [Signature]  
07-02

REVISIONS: 3/7/07  
DRAWING NUMBER: 104-2051-0831-1

DATE: 1/22/07  
DRAWN BY: ALAN WEISS

e-Mail: [ALANWEISS@charter.net](mailto:ALANWEISS@charter.net)

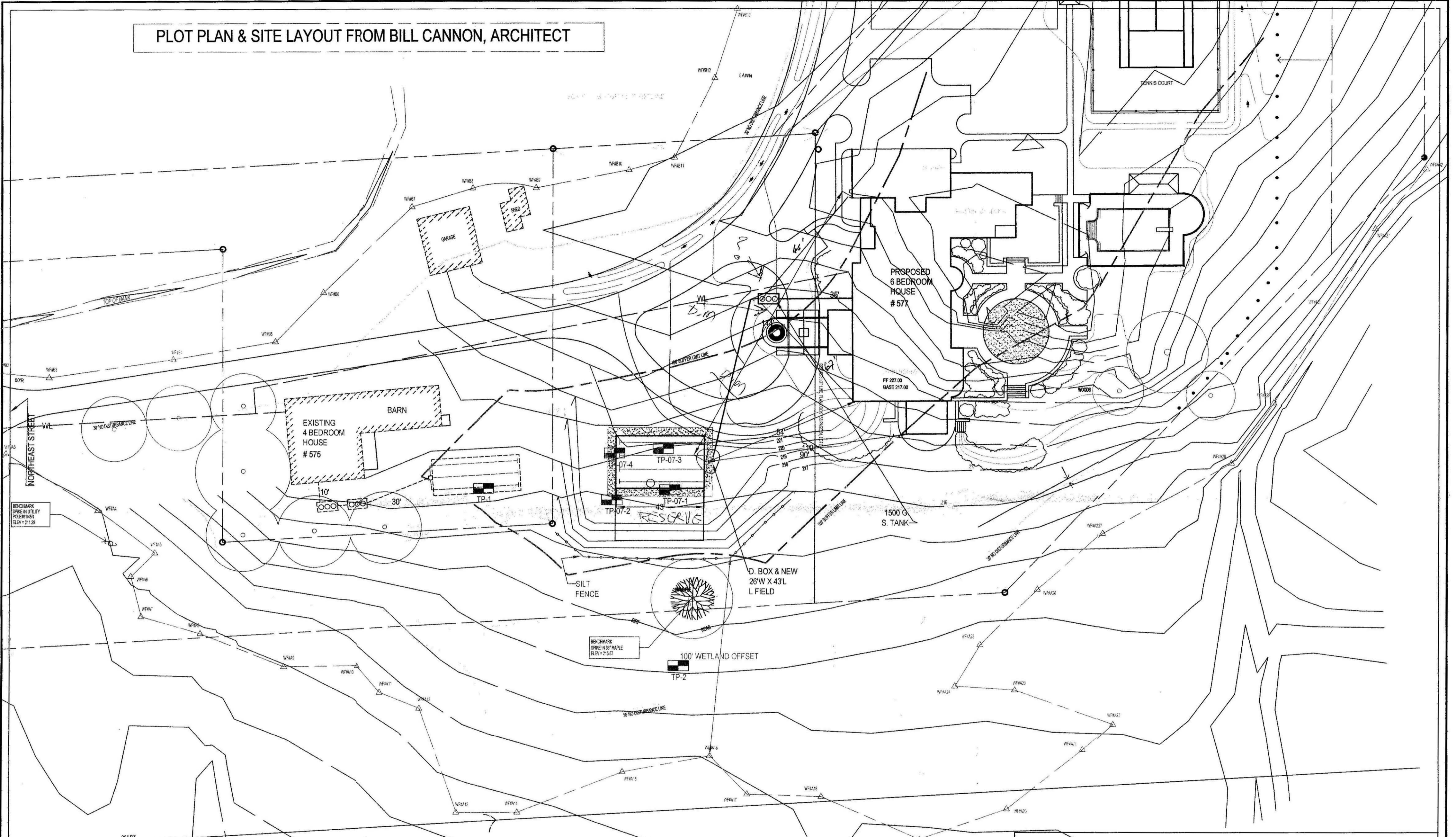


**NOTE: INSTALLER MUST CONTACT ENGINEER 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.**

**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 TV. UTILITY LINES BE MADE A **MINIMUM** OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

**NOTE TO HOMEOWNER: MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE OF EFFLUENT FILTRATION FROM THE BOTTOM OF THE FIELD TO THE ESTIMATED HIGH GROUNDWATER. THE "SEPARATION" FROM THE BOTTOM OF THE FIELD TO HIGH GROUNDWATER (3, 4, OR 5 FEET), IS NOT THE SAME AS THE HEIGHT OF THE FINISHED MOUND SURFACE. THE ACTUAL FINISHED MOUND IS TYPICALLY HIGHER THAN THE "SEPARATION".**

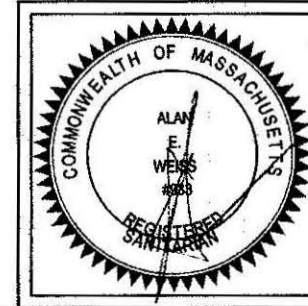
PLOT PLAN & SITE LAYOUT FROM BILL CANNON, ARCHITECT



BENCH-MARK  
SPIKE IN UTILITY  
POLE  
ELEV = 211.29

AS BUILT  
09.18.2007  
10.30.2008  
SCALE: 1" = 30'  
3.292± Ac.

NOT AN ACTUAL SURVEY  
LOCATIONS ARE FOR  
SEPTIC SYSTEM & WELL ONLY



SEPTIC DETAIL PLAN FOR ROGER CHEREWATTI AS BUILT  
575 & 577 NORTHEAST STREET  
AMHERST, MA

09.18.2007  
10.30.2008

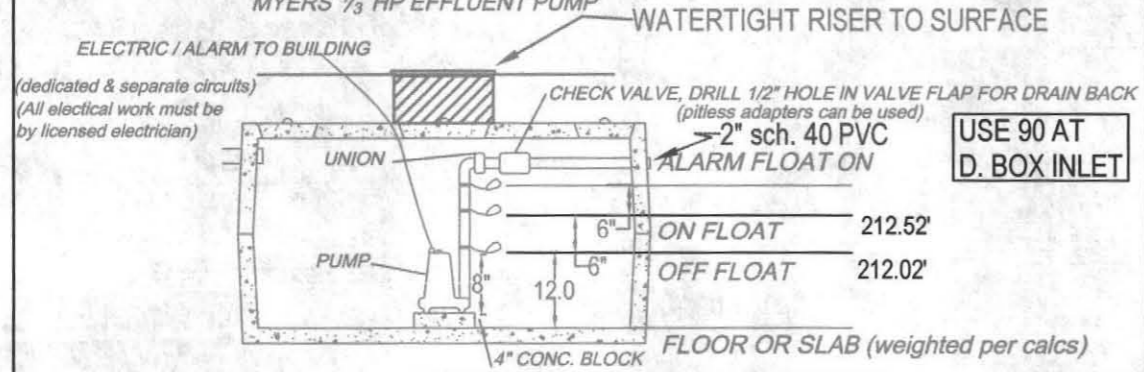
**Cold Spring Environmental Consultants Inc.**  
350 Old Enfield Road  
Belchertown, MA. 01007

PHONE: (413) 323-5957  
FAX: (413) 323-4916  
e-Mail: [ALWEISS@charter.net](mailto:ALWEISS@charter.net)

DATE: 1/22/07	DRAWN BY: ALAN WEISS	REVISED:
SCALE: 1"=30'	DRAWING NUMBER: 104-2051-0831-2A	

**PUMP CHAMBER DETAIL (watertight) NOT TO SCALE**

1500 GALLON PUMP CHAMBER (126" L x 68" w x 68" h) BY Underground Supply Inc. (or equiv.) pump with MYERS 1/3 HP EFFLUENT PUMP



USE 90 AT D. BOX INLET

6" = 164 GAL w/ 5 gal BACKFLOW. +/- (WITH 5 GAL PIPE VOL.)  
1 6" cycle per dose

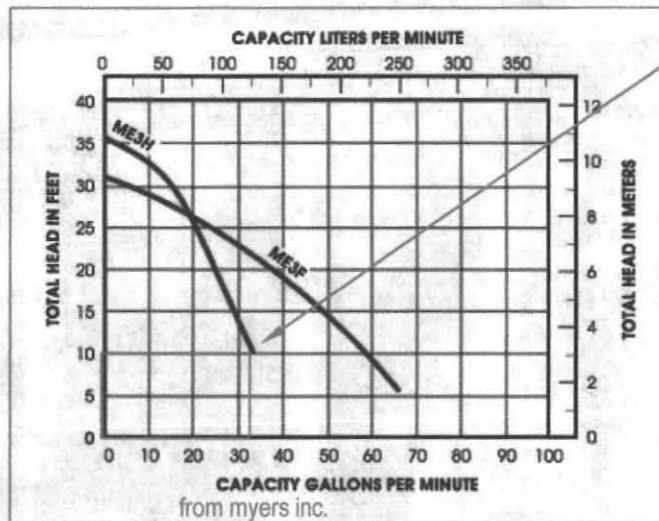
NOTE  
-PUMP IS REQUIRED DUE TO SITE CONDITIONS WHICH WILL NOT ACCOMODATE GRAVITY FLOW FROM TANK TO EFFLUENT DISPOSAL AREA

PUMP SPECIFICATIONS:  
TOTAL FRICTION HEAD 6.5'  
myers me3h 1/3 hp  
DELIVER 33 GPM @ 10' OF HEAD

**WETLAND DELINEATION AND SEDIMENT CONTROL NOTES:**

**NOTE:** All fabric silt fence to be backed with Double Staked Virgin Straw Bales (free of seeds) in order to prevent fugitive re-seeding in Resource Area.

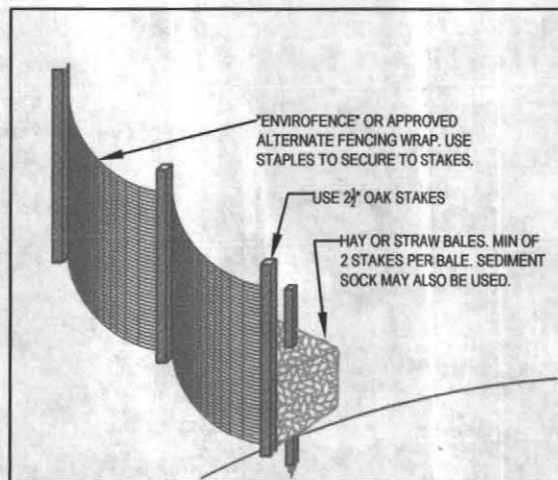
1. NO ALTERATION OF SEDIMENT, FILLING OR CUTTING VEGETATION ON THE DOWNGRADIENT SIDE OF THE SEDIMENTATION BARRIER (SILT FENCE).
2. SEDIMENTATION BARRIER TO BE ERECTED IN A STABLE AND LASTING MANNER AS SHOWN ON THE PLAN.
3. NOTIFY CONSERVATION ADMINISTRATOR AT LEAST 72 HOURS (IF REQ'D.) PRIOR TO START OF ON-SITE WORK, AFTER COMPLETE ON SILT FENCE INSTALLATION.
4. AS SOON AS IS POSSIBLE WORK AREA SHALL BE SEEDED, REVEGETATED WITH GRASS OR SIMILAR GROUND COVER AND MULCHED UPON COMPLETION OF SITE WORK.
5. SILT FENCE TO REMAIN STANDING UNTIL REGROWTH IS SUFFICIENT TO CONTROL FUGITIVE SEDIMENT RUNOFF.
6. REGRADE WORK AREA AS NOTED TO PREVENT CHANGE IN SLOPE OR RUNOFF PATTERNS.



BALLAST CALCS (NEW 1500 GAL.S. TANK & CHAMBER (CHAMBER LOWEST)):  
TOTAL OUTSIDE VOLUME IN G. WATER (10.5' L X 5.8' W X 1.65' IN WATER)  
(ASSUMING 1.65 FEET IN WATER TABLE IE., BOT TANK IS 210.60' ESHWT IS 212.25')  
61 CF X 7.48 GALS/CF = 456 GALLONS, DISPLACED  
456 GALLONS X 8.3 LBS/GAL=3,787 POUNDS  
3,787 POUNDS - 12,000 POUNDS\*tank= 0 LBS REQUIRED.  
NO BALLAST TO BE PROVIDED BY THICKEND BASE OR SLAB OVER TANK  
10.5' X 5.8' X .0' = 0 CF = 0 CY X 4.0 TONS/CY.= 0 TONS = 0 POUNDS PROVIDED BY 0" CONCRETE

**PUMP CHAMBER/MOUNDED SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER:**

1. HAVE SEPTIC TANK PUMPED EVERY SECOND (2) YEARS.
2. \*\*HAVE PUMP AND PUMP CHAMBER & OUTLET FILTER 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.



SHEET 2 OF 2



REVISED SEPTIC SYSTEM REPAIR PLAN FOR ROGER CHEREWATTI  
575 NORTHEAST STREET  
AMHERST, MA

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

PHONE: (413) 323-5957  
FAX: (413) 323-4916

e-Mail: ACWETS@charter.net

DATE: 1/22/07

DRAWN BY: ALAN WEISS

REVISED: 1/31/07

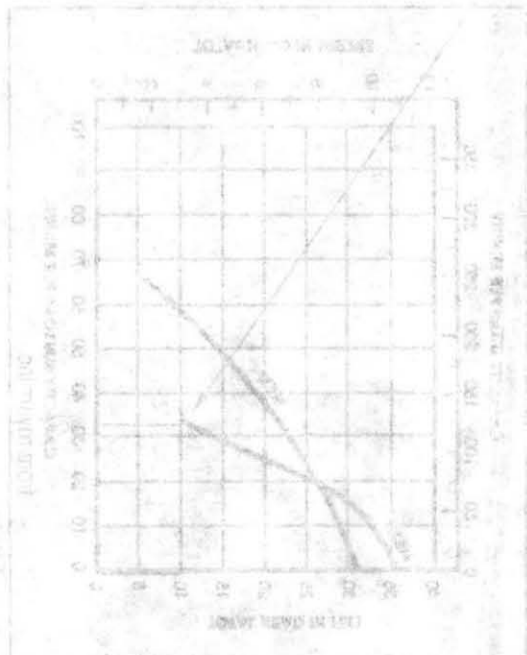
SCALE: 1"=30'

DRAWING NUMBER: 104-2051-0831-1

1. The design of the pump chamber and its connection to the main pipe shall be such as to ensure that the flow of water is smooth and free from turbulence.

2. The design of the pump chamber shall be such as to ensure that the flow of water is smooth and free from turbulence.

3. The design of the pump chamber shall be such as to ensure that the flow of water is smooth and free from turbulence.



DESIGN OF PUMP CHAMBER AND CONNECTION TO MAIN PIPE.

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**COLD SPRING ENVIRONMENTAL  
CONSULTANTS INC.**

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

RECEIVED  
11/2/08

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

April 30 ,2007 & October 30 2008

**Amherst Board of Health**

RE:Septic System Installation Inspection  
# (577) Northeast Street (Cherawatti, New Home)

On this date, the writer inspected the installation of a **Septic Tank & Leach Field**. The writer 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 (**DMO, Excavating**). 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.

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,*

