

November 30 2006

**Amherst, Board of Health**

RE:Septic System L.Field Repair & Inspection  
**390 State Street (Parent Property )**

On this date, we inspected the installation of a Soil Absorption System (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 **(Adair's Septic and Landscaping)** & 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,

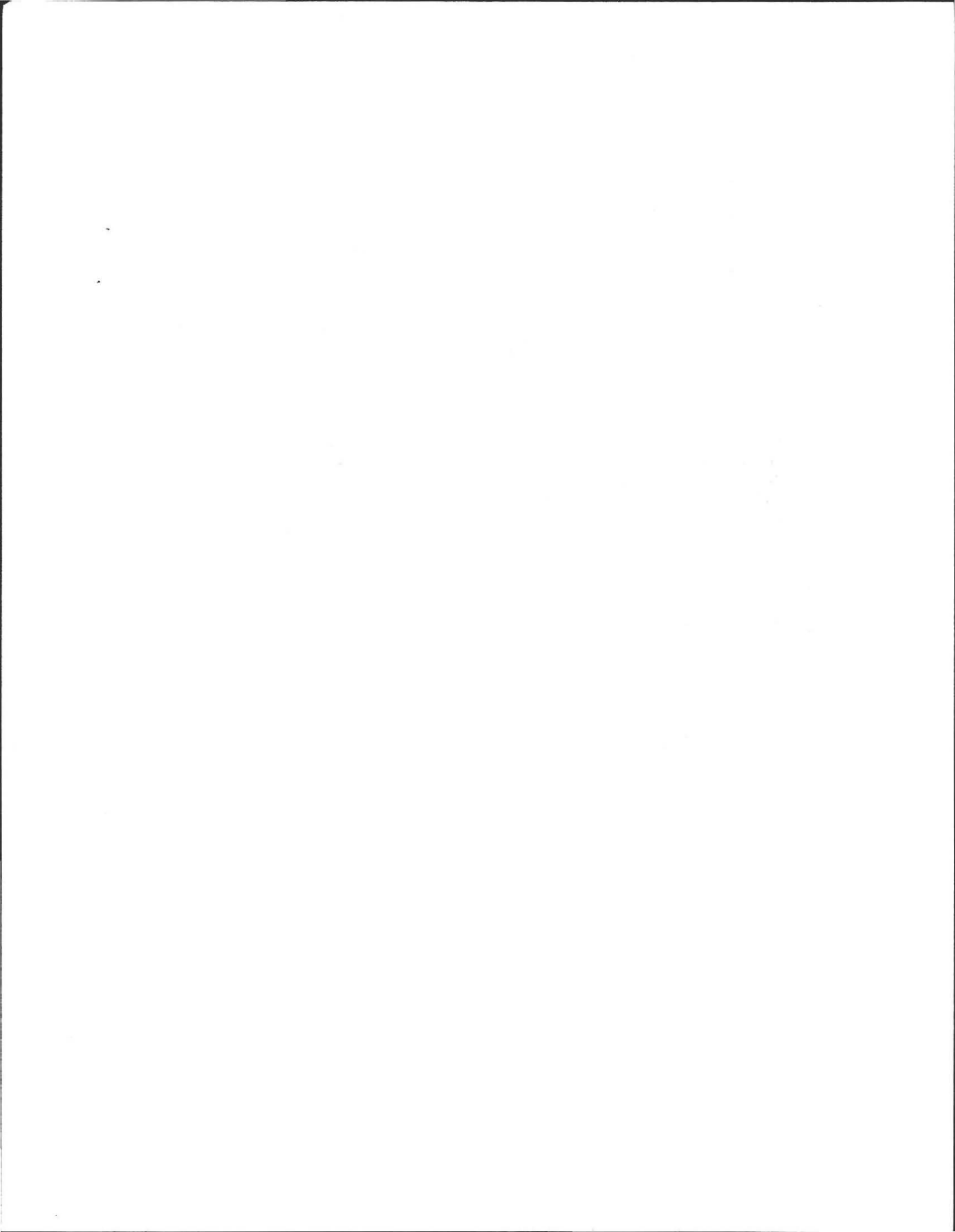
**Cold Spring Environmental Consultants, Inc.**



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





# 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: 390 Stet

Property Owner: Parent

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

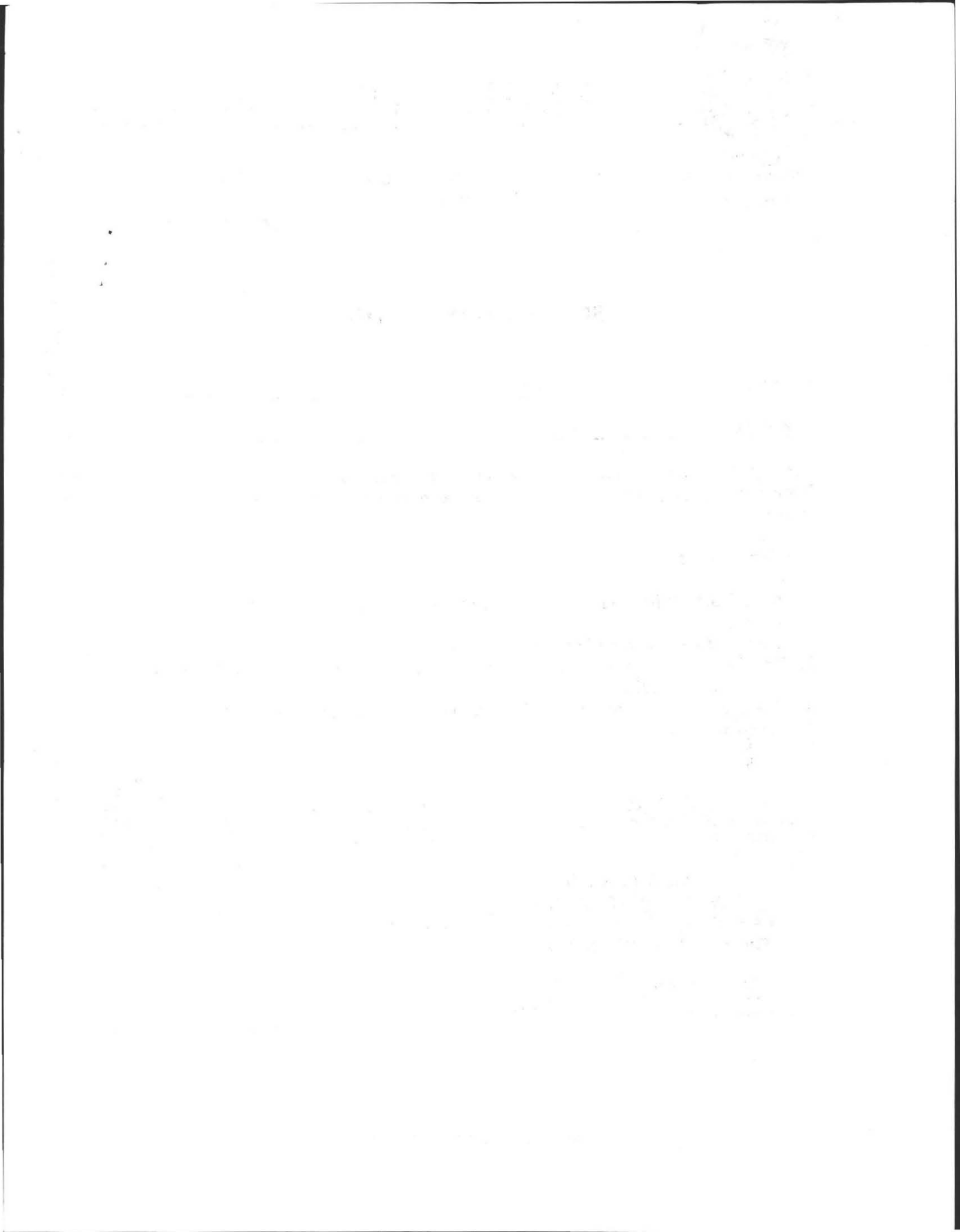


**COLD SPRING  
ENVIRONMENTAL, INC.**  
Street Address 350 OLD ENFIELD RD.  
**BELCHERTOWN, MA 01007**

Town, State, Zip Code

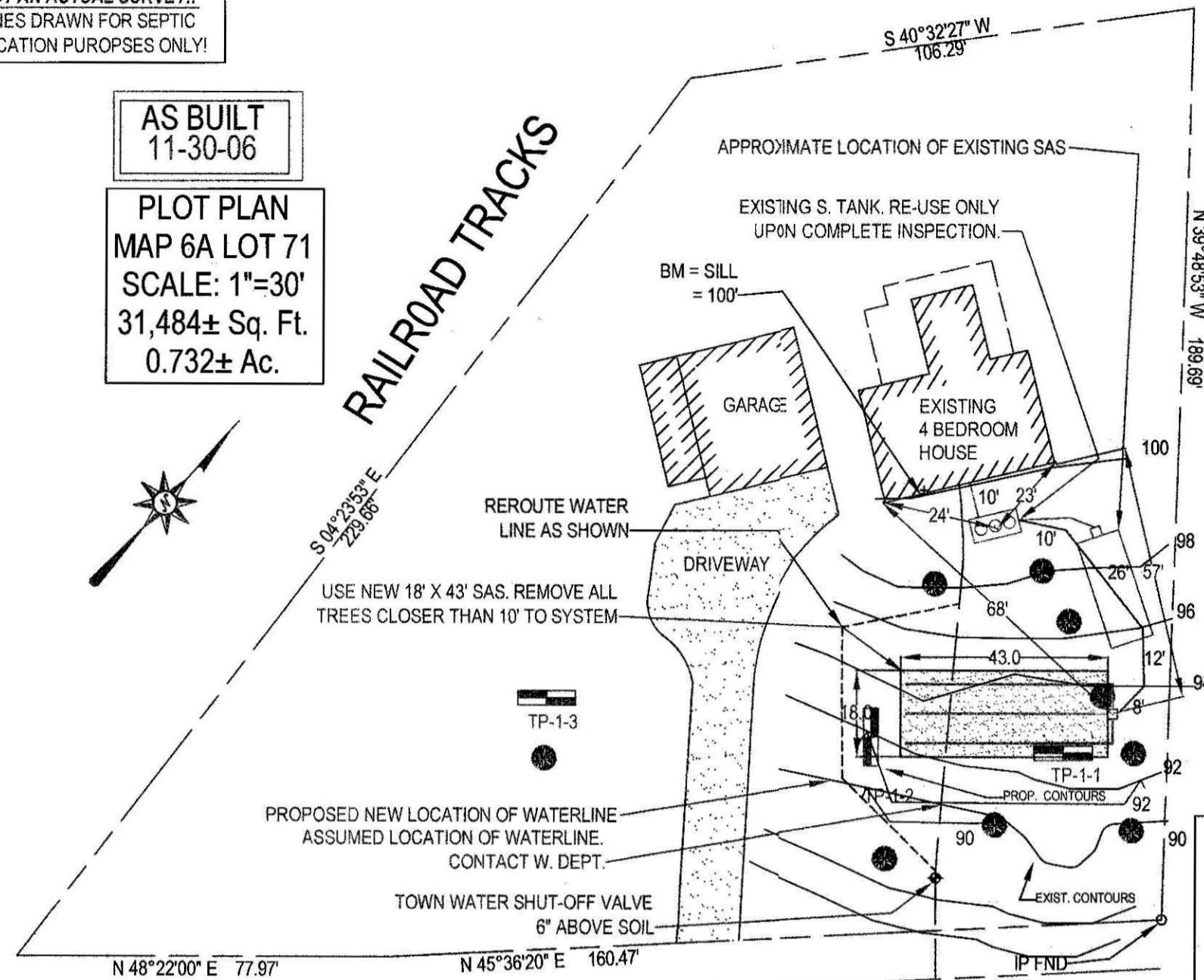
413-323-5957  
Telephone Number





NOT AN ACTUAL SURVEY!!  
LINES DRAWN FOR SEPTIC  
LOCATION PURPOSES ONLY!

AS BUILT  
11-30-06  
PLOT PLAN  
MAP 6A LOT 71  
SCALE: 1"=30'  
31,484± Sq. Ft.  
0.732± Ac.



STATE STREET

**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".**

**GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.**

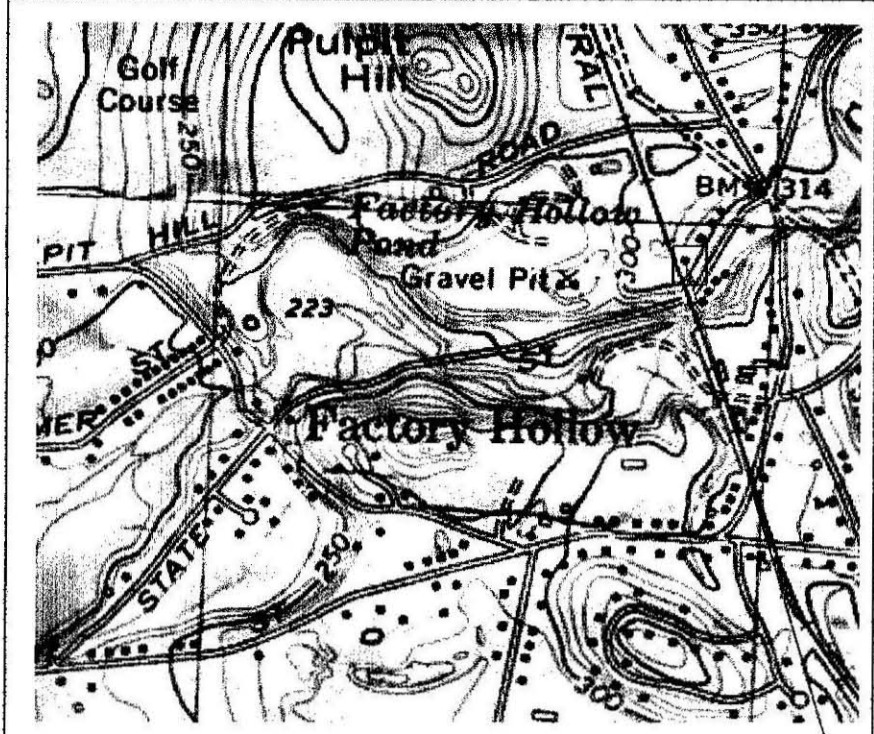
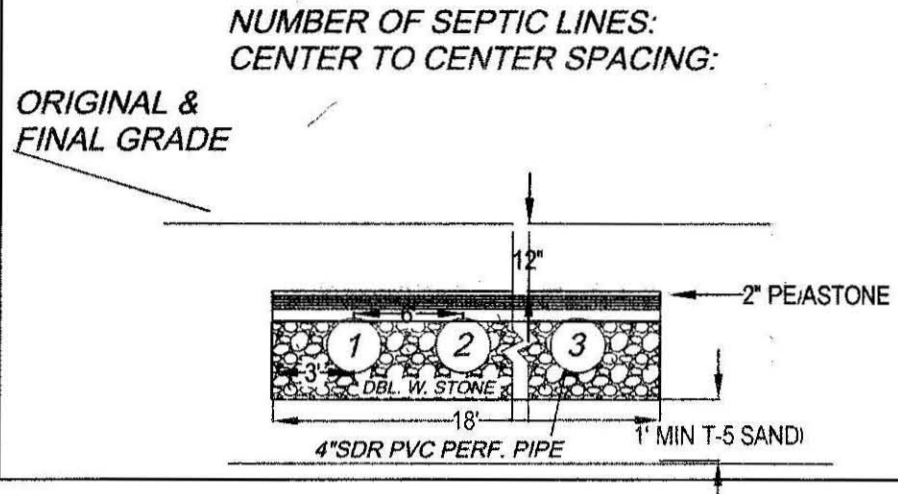
- 1.) HAVE TANK PUMPED EVERY 2 YEARS.
- 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
- 5.) CLEAN TANK OUTLET FILTER ANNUALLY IF PRESENT

**2006 SEPTIC PLAN ADDENDUM**

- DUE TO LATE REGULATION CHANGES 4-22-2006**  
**ALL NEW SYSTEMS MUST:**
- 1.) INSTALL PVC RISERS OVER D. BOX'S BURIED DEEPER THAN 9" AND PLACE IRON REBAR ON TOP.
  - 2.) HAVE 4" PERFORATED, 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.**
  - 3.) 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.**

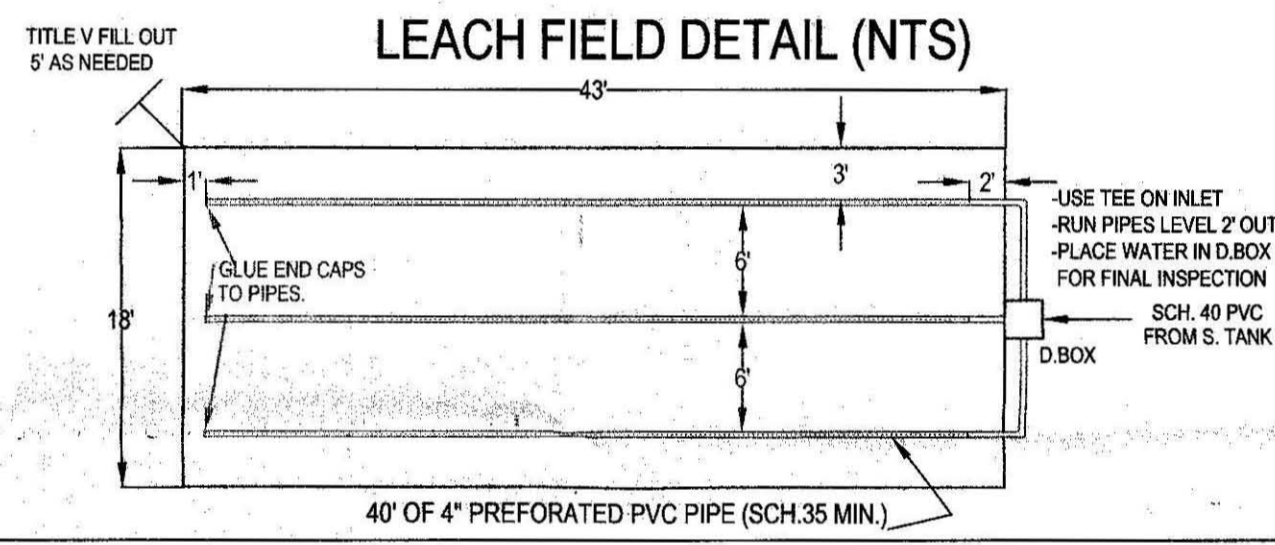
**NOTE: INSTALLER MUST CONTACT ENGINEER 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.**

**EFFLUENT DISPOSAL AREA CROSS SECTION - NOT TO SCALE (LEVEL DISPOSAL AREA)**



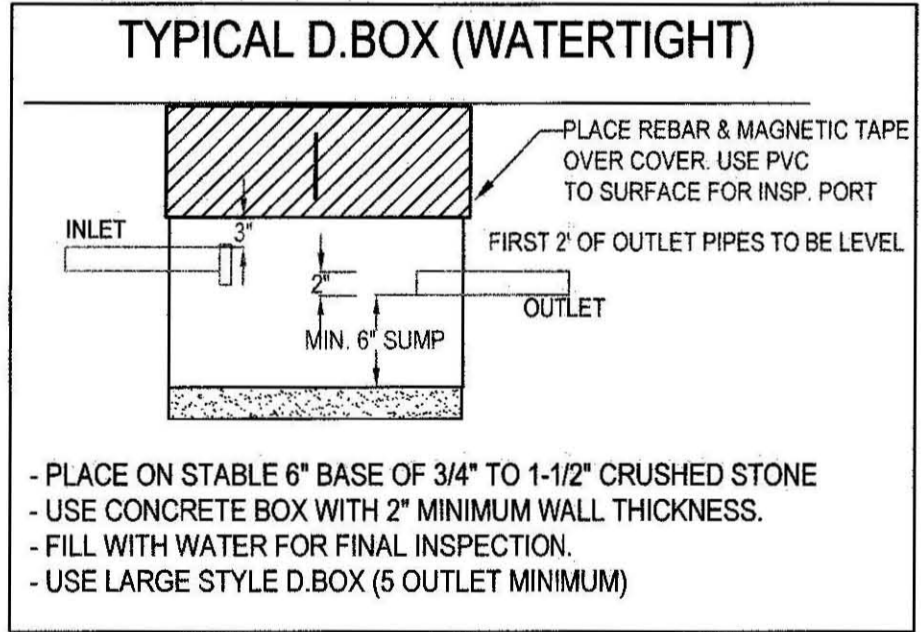
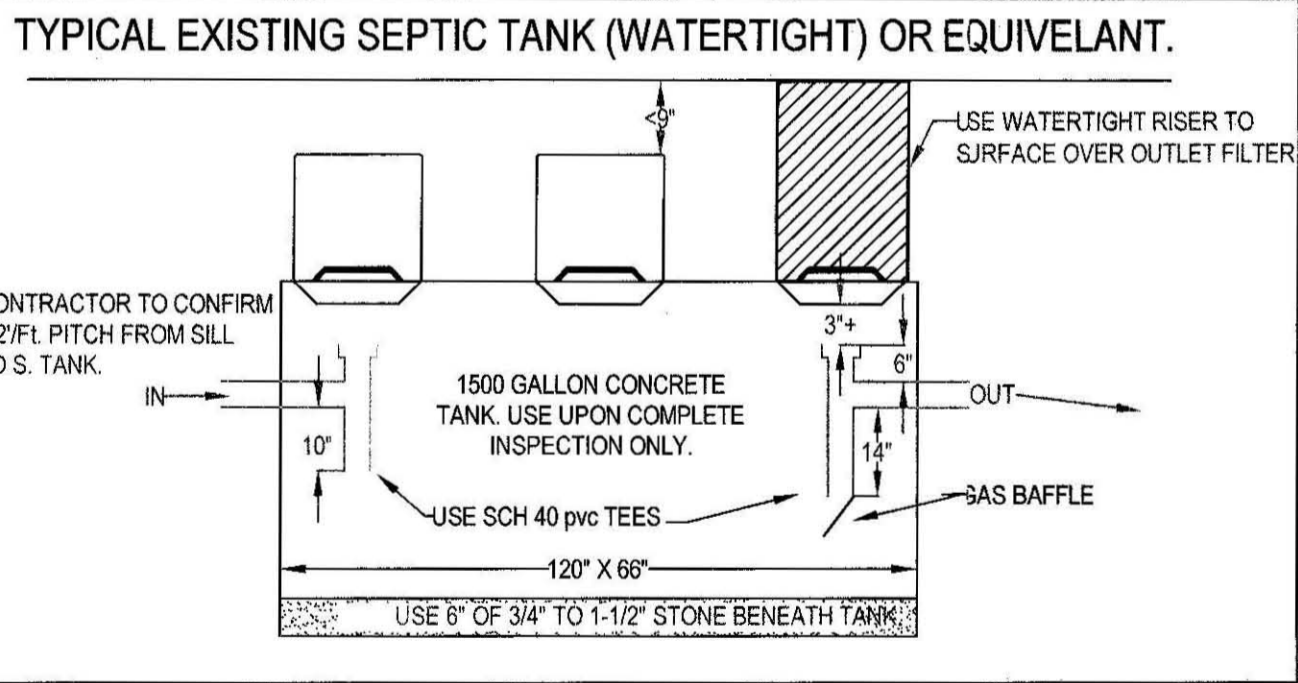
SUBJECT SITE LOCATION

**USING EXISTING SEPTIC TANKS:**  
AN EXISTING 1,000 or 1,500 GALLON SEPTIC TANK CAN BE USED IF UPON INSPECTION BY THE INSTALLING CONTRACTOR, IF THE TANK IS INSPECTED AND PUMPED AND FOUND TO BE STRUCTURALLY SOUND AT THE TIME OF THE SUBGRADE INSPECTION. IF BAFFLES ARE NOT BUILT IN, THAN SCH 40 PVC TEES MUST BE ADDED. IF TANK IS NOT SOUND THAN, NOTIFY ENGINEER IMMEDIATELY IN ORDER TO ACCOMMODATE A NEW 1,500 GALLON (MIN.) SEPTIC TANK.



**DESIGN NOTES AND CALCULATIONS:**

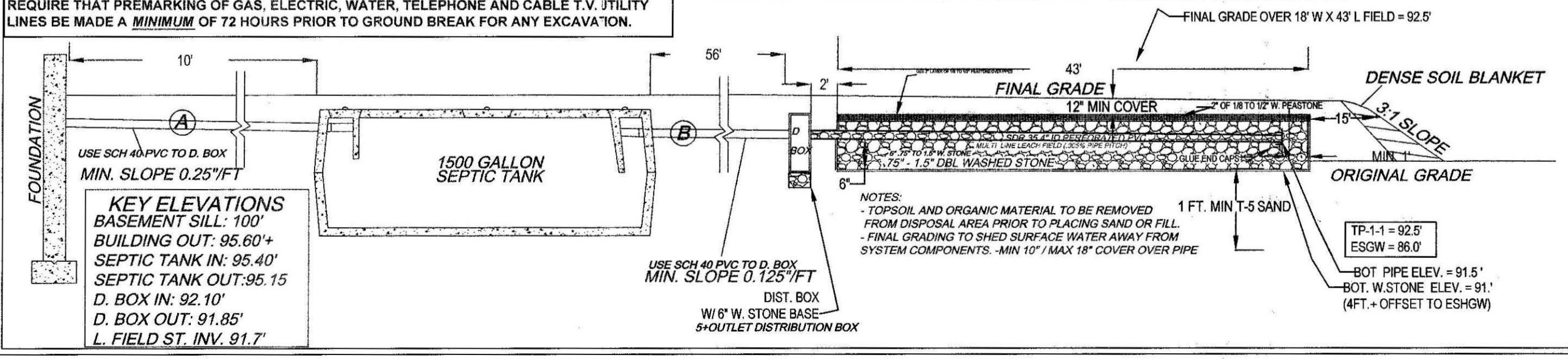
- 1.) 4 BR X 110 GPD /BR = 440 GPD
- Use ONE FIELD: 18' WIDE X 43' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT
- BOTTOM AREA: 18' W X 43' L = 774 SF.
- SIDE AREA: 0 SF.
- TOTAL AREA: 774 SF X 0.60 GAL/SF = 464 GPD
3. GARBAGE DISPOSAL NOT ALLOWED
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS (TOWN WATER). MOVE W. LINE AS NOTED.
5. NO OTHER WETLANDS: WITHIN 150 FEET OF SAS
6. USE EXISTING 1,500 GAL S. TANK AS NOTED
- NOTE:**
- EXISTING SEPTIC TANKS MUST BE INSPECTED PRIOR TO SYSTEM INSTALLATION. USE ONLY IF SOUND.
7. USE LARGE STYLE D.BOX ONLY.
- 7A. ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'
- NOTE:**
- D. BOXES WITH COVERS AND WALLS LESS THAN 2" THICK ARE NOT ALLOWED PER DESIGN.
8. USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
- CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 IPVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AREA NOTED REQUIRED.
11. SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE. (310 CMR 15.240)
14. 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 V SAND PLACEMENT (1 FT. MIN.).
- EXCAVATE EXISTING SYSTEM AND REMOVE WHERE IN WAY OF NEW SYSTEM.
15. SOIL EVALUATION BY A. WEISS, RS. 11/07/06 (D. ZAROZINSKI, BOH AGENT).
- DEPTH OF PERC. 40"
- PERC RATE = 10 MIN / IN
- CLASS II SOIL RATING (MED - COARSE SAND)
16. NO TREES WITHIN 10' FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
17. ENGINEER TO INSPECT SUBGRADE, AND FINAL.
18. BM=100.00 @ SILL, CONFIRM PROPER PIPE SLOPES
- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.



- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" CRUSHED STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION.
- USE LARGE STYLE D.BOX (5 OUTLET MINIMUM)

**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.

**EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)**



**KEY ELEVATIONS**  
BASEMENT SILL: 100'  
BUILDING OUT: 95.60'+  
SEPTIC TANK IN: 95.40'  
SEPTIC TANK OUT: 95.15'  
D. BOX IN: 92.10'  
D. BOX OUT: 91.85'  
L. FIELD ST. INV. 91.7'

TEST PIT LOG:				SOIL EVALUATOR: ALAN WEISS		DATE OF EVALUATION: 11/07/06	
TP-1-1 EFF. ELEV: 92.5'				TP-2 EFF. ELEV:			
DEPTH:	HORIZ:	TEXTURE:	MOISTURE (UNSAT.):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:
0' - 10"	A	FSL	(10 YR 3/3)	FRIABLE, LOOSE	0' - 10"	A	FSL
10' - 24"	Bw	SL	(2.5 Y 6/6)	FRIABLE	10' - 22"	Bw	SL
24' - 92"	C1	LS	(10 YR 4/6)	MEDIUM COARSE SAND 20% STONES (ANGULAR) MOD. LOOSE	22' - 58"	C1	SL
OXIDES: (7.5 YR 7/8) OBSERVED @ 78"				OXIDES: NOT OBSERVED			
EHWT: 78" = 86.0'				EHWT: 58"+			
STANDING H2O: NOT OBSERVED				STANDING H2O: NOT OBSERVED			
WEEPING: NOT OBSERVED				WEEPING: NOT OBSERVED			
BEDROCK: 92" +				BEDROCK: 58" +			

**SEPTIC SYSTEM REPAIR PLAN FOR MARK PARENT**

390 STATE STREET  
AMHERST, MA

AS BUILT  
11-30-06

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

PHO. NO: (413) 323-5957  
FAX: (413) 323-4916  
e-Mail: [ACWCS@charter.net](mailto:ACWCS@charter.net)

DATE: 11/07/06	DRAWN BY: ALAN WEISS	REVISED: 11-30-06
SCALE: 1"=30'		DRAWING NUMBER: 106-2569-0530

