~~LOT 17~~ 38 OVERLOOK DRIVE

No. 07-13

FEE #450 Paid

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location	Overlook DR.	Owner's Name	Shiela Stevens
Map/Parcel#	6B	Address	8. Windflower, LA, W. Windsor NJ
Lot#	49 (#19).	Telephone#	609-426-0540
Installer's Name		Designer's Name	Alan Weiss
Address		Address	Belchertown, MA.
Telephone#		Telephone#	413-323-5957

Type of Building RES. Lot Size 2.02 Ac sq. ft.

Dwelling - No. of Bedrooms 4BR. Garbage grinder (N)

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

Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 440 Design flow provided 516 gpd

Plan: Date 11-06-07 Number of sheets 1 Revision Date 01/04/08

Title Septic System Plan.

Description of Soil(s) Class 1: LS

Soil Evaluator Form No. _____ Name of Soil Evaluator 10/04/07 Date of Evaluation A.Weiss T. Dion

DESCRIPTION OF REPAIRS OR ALTERATIONS New Const / System

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 Shiela J. Stevens Date 11-20-07

Inspections _____

No. 07-13 FEE _____

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: _____

at _____

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 _____

Designer: _____ Inspector: _____ Date: _____

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

No. 07-13 FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct(✓) Repair( ) Upgrade( ) Abandon( ) an individual sewage disposal system at #19 Overlook DR. (Map 6B, Lot 49) as described in the application for Disposal System Construction Permit No. 07-13, dated 11/20/07.

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 12/3/07 Board of Health Peter J. McGlynn RS MPH, CHO, RS
For the Amherst Board of Health

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Subsurface Investigations
•21E Site Investigations
•Pollution Remediation
•Percolation Tests and Septic Designs

350 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)

Date: 10/4/07

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A Weiss
Witnessed By: T. Dion

Date: 10/4/07

Location Address or Lot #	Owner's Name, Address, and Telephone #
LOT 19 Overlook DR.	Shiela Stevens 8 Windflower LA. W. Windsor, NJ. 609-426-0540
New Construction ☐ Repair ☐	

Office Review

Published Soil Survey Available: No ☐ Yes ☑

Year Published — Publication Scale — Soil Map Unit

Drainage Class — Soil Limitations

Surficial Geologic Report Available: No ☑ Yes ☐

Year Published — Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☑

Within 500 year flood boundary No ☑ Yes ☐

Within 100 year flood boundary No ☑ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range: Above Normal ☐ Normal ☑ Below Normal ☐

Other References Reviewed: _____

Location Address or Lot No. 19 Overlook DR.

On-site Review

Deep Hole Number 1→4 Date: 10/4/05 Time: 12:30 Weather Sun 80

Location (identify on site plan)

Land Use Wooded Slope (%) 2 Surface Stones MANY

Vegetation Mixed Woods

Landform Terraced.

Position on landscape (sketch on the back)

Distances from:

Open Water Body	100' + feet	Drainage way	100 ft. feet
*Possible Wet Area	100' + feet	Property Line	70' feet
Drinking Water Well	100' feet	Other	

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
TP-1	0-6"	Ap	FSL	10YR 5/2		friable
	6"-22"	Bw	LS	10YR 4/6	2.5Y 4/1 30"	friable loose
	22"-120"	C1	LS	2.5Y 4/2	10YR 6/8	F-C SANDy till. 15% Stones Massive
TP-2	0-7"	Ap	FSL	10Y 5/2	2.5Y 4/2	
	7"-25"	Bw	LS	10YR 4/6	32"	
	25-126"	C1	LS	2.5Y 4/2	10YR 6/8	Same as #1
TP-3	0-8"	Ap	FSL	10YR 3/2	2.5Y 4/1	
	8-26"	Bw	LS	10YR 4/6	30" 10YR 6/8	Same as #1
	26"-110"	C1	LS	2.5Y 4/3		
TP-4	0-8"	Ap	FSL	10YR 3/2	2.5Y 4/1	
	8"-28"	Bw	LS	10YR 4/6	30"	
	28-120"	C1	LS	2.5Y 4/3	10YR 6/8	Same as #1

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Ablation till Depth to Bedrock: 126"+

Depth to Groundwater: Standing Water in the Hole: Not Weeping from Pit Face: Not

Estimated Seasonal High Ground Water: 30"

FORM 12 PERCOLATION TEST

Location Address or Lot No. Lot 19 Overlook DR

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: 10/4/07		Time: 1:00
Observation Hole #	P_1	P_2
Depth of Perc	40"	39"
Start Pre-soak	~~12:35~~	1:00
End Pre-soak	~~12:50~~	1:15
Time at 12"	12:50	1:15
Time at 9"	12:55	1:20
Time at 6"	1:02	1:29
Time (9"-6")	7 MIN	9 MIN
Rate Min./Inch	3 MIN/IN	3 MIN/IN

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

Site Passed ☑ Site Failed ☐

Performed By: A. Wiss

Witnessed By: T. Dion

Comments:

* Filled (5) MPI, 1985.

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. LOT 19 Overlook DR.

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☑ Depth to soil mottles 30 inches
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

If not, what is the depth of naturally occurring pervious material? _____

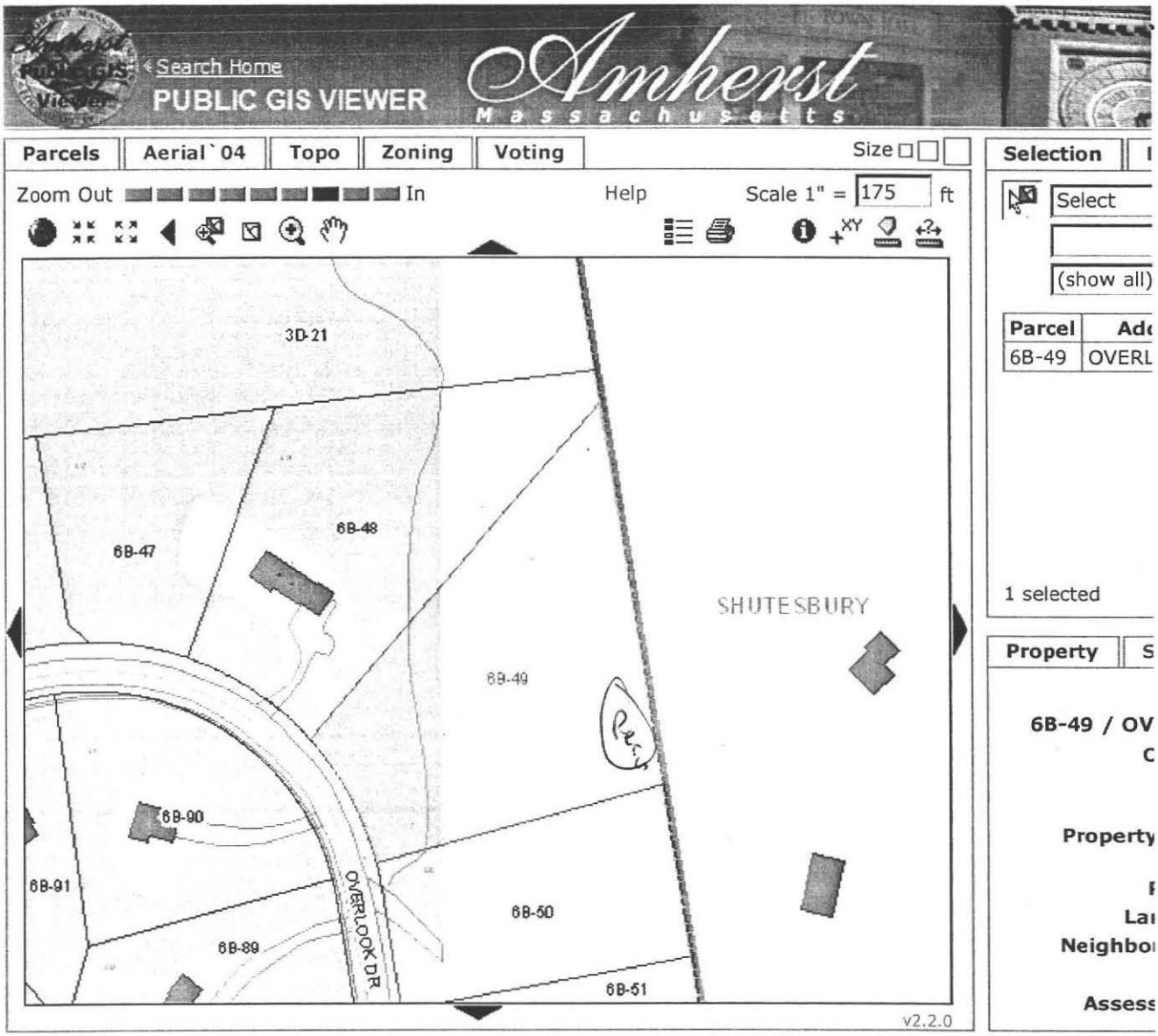
Certification

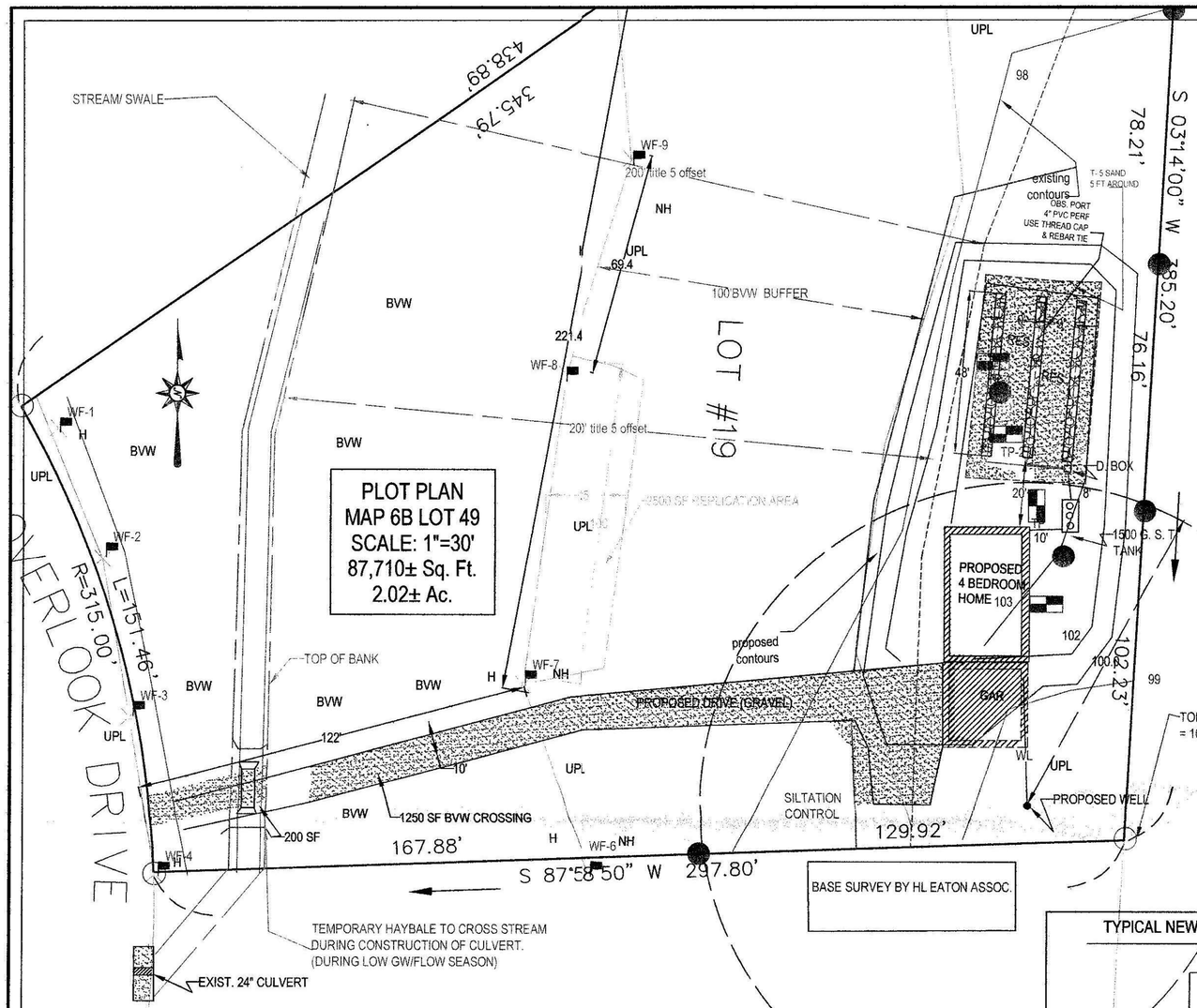
I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

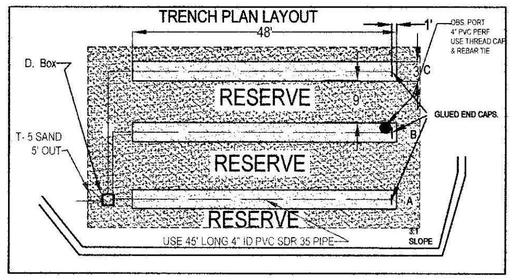
Signature _____ Date 10/4/07

COMMONWEALTH OF MASSACHUSETTS
ALAN E. WEISS
REG. #933
REGISTERED SANITARIAN

DEP APPROVED FORM - 12/07/95







2006 SEPTIC PLAN ADDENDUM

DUE TO LATE REGULATION CHANGES 4-22-2006

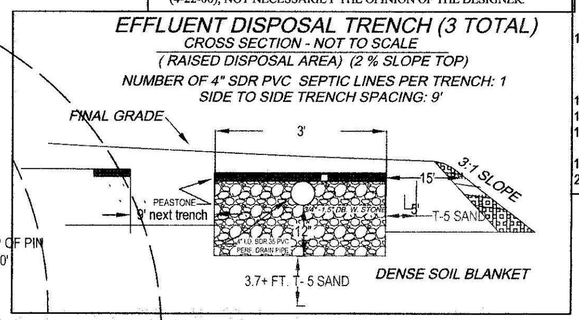
ALL NEW SYSTEMS MUST:

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.



DESIGN NOTES AND CALCULATIONS:

1.) 4 BR X 110 GPD /BR = 440 GPD

-USE THREE TRENCHES: 3' WIDE X 48' LONG WITH 12" OF ¾" TO 1½" DBL WASHED ST'ONE BELOW INVERT

- BOTTOM AREA: 3' W X 48' L X 3 TRENCHES = 432 SF.
- SIDE AREA: 1.0' H X 48' L X 2 SIDES X 3 TRENCHES = 288 SF.
- END area: 3' W X 1.0' H X 2 CAPS X 3 TRENCHES = 18 SF.
- TOTAL AREA: 738 SF X 0.70 GAL/SF = 516 GPD

3. GARBAGE DISPOSAL NOT ALLOWED
4. NO PRIVATE WELLS WITHIN 150 FEET OF SAS.
5. NO OTHER WETLANDS WITHIN 100 FEET OF SAS
6. USE NEW 1,500 GAL S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

   NOTE:
   - SEPTIC TANKS AND PUMP CHAMBERS WITH RECEEDING COVERS ARE NOT ALLOWED. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS.
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.

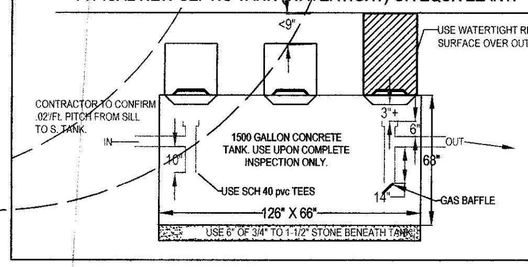
8. USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
   -CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AREA NOTED REQUIRED.
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
13. USE trenches 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 28" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR TO BASE OF B (MIN. 28") UNDER BED & scarify PRIOR TO TITLE V SAND PLACEMENT (if needed).
   - EXCAVATE EXISTING SYSTEM AND REMOVE.
15. SOIL EVALUATION BY A. WEISS 10/04/07 (T. DION BOH AGENT).
   - DEPTH OF PERC. 40 & 39"
   - PERC RATE = 3 & 3 MIN / IN
   - CLASS I SOIL RATING (L. 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 @ PIN AS NOTED, 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.

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

NOTE TO HOMEOWNER: *MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE FROM THE BOTTOM OF THE LEACHING FIELD TO THE TOP OF THE ESTIMATED HIGH GROUNDWATER. THIS "SEPARATION" FROM HIGH GROJNDWATER (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". BY SIGNNG PERMIT YOU ACKNOWLEDGE THAT COLD SPRING ENVIRONMENTAL CONSULTANTS INC. ISNOT RESPONSIBLE FOR THE AESTHETICS OF FILLED OR MOUNDED SYSTEMS.*

TYPICAL NEW SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



TEST PIT LOG:

TP-1 EFF. ELEV: 98.7'					TP-2 EFF. ELEV: 98.7'				
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	
0-6"	A	FSL	(10 YR 3.2)	FRIABLE	0-7"	A	FSL	(10 YR 3.2)	FRIABLE
6-22"	Bw	LS	(10 YR 4/6)	FRIABLE LOOSE	7-25"	Bw	LS	(10 YR 4/6)	FRIABLE LOOSE
22-120"	C1	LS	2.5 Y 4.2	F- C. SANDY G. TILL	25-126"	C1	LS	2.5 Y 4.2	F- C. SANDY G. TILL
				15% BOULDERS, MOD. MASSIVE					15% BOULDERS, MOD. MASSIVE
OXIDES:			(10 YR 6/8)) (2.5 Y 4/1)	OBSERVED @ 30"	OXIDES:			(10 YR 6/8) (2.5 Y 4/1)	OBSERVED @ 32"
EHWT:			30" =96.2'		EHWT:			30" =96.2'	
STANDING H2O:			NOT		STANDING H2O:			NOT OBSERVED	
WEEPING:			NOT		WEEPING:			NOT OBSERVED	
BEDROCK:			120" +		BEDROCK:			126" +	

TEST PIT LOG:

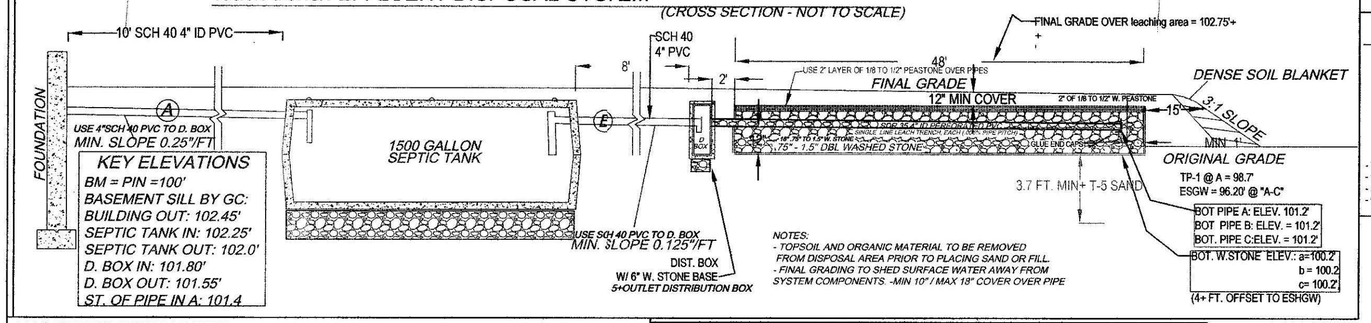
TP-3 EFF. ELEV: 98.7					TP-4 EFF. ELEV:				
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	
0-8"	A	FSL	(10 YR 3.2)	FRIABLE	0-8"	A	FSL	(10 YR 3.2)	FRIABLE
8-26"	Bw	LS	(10 YR 4/6)	FRIABLE LOOSE	8-28"	Bw	LS	(10 YR 4/6)	FRIABLE LOOSE
26-110"	C1	LS	2.5 Y 4.2	F- C. SANDY G. TILL	28-120"	C1	LS	2.5 Y 4.2	F- C. SANDY G. TILL
				15% BOULDERS, MOD. MASSIVE					15% BOULDERS, MOD. MASSIVE
OXIDES:			(10 YR 6/8) (2.5 Y 4/1)	OBSERVED @ 30"	OXIDES:			(10 YR 6/8) (2.5 Y 4/1)	OBSERVED @ 30"
EHWT:			30" =96.2'		EHWT:			30" =96.2'	
STANDING H2O:			NOT		STANDING H2O:			NOT OBSERVED	
WEEPING:			NOT		WEEPING:			NOT OBSERVED	
BEDROCK:			110" +		BEDROCK:			120" +	

SOIL EVALUATOR: A. WEISS 10.04.2007.

SOIL EVALUATOR: A. WEISS 10.04.2007

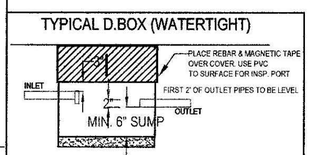
leach trench EFFLUENT DISPOSAL SYSTEM

(CROSS SECTION - NOT TO SCALE)



NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE

TYPICAL D.BOX (WATERTIGHT)



- 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 4I - 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.

NOTE: *INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 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.*

PAGE 2 OF 2

COMMONWEALTH OF MASSACHUSETTS ALAN E. WEISS 9933 REGISTERED SANITARIAN

SEPTIC SYSTEM DESIGN PLAN AND NOTICE OF INTENT FOR SHIELA STEVENS
MAP 6B LOT 49 OVERLOOK DRIVE
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

DATE:	DRAWN BY:	REVISED:
11.06.2007	ALAN WEISS	12.12.2007 PER BOH 01.04.2008 SEPTIC
SCALE: 1"=30'		DRAWING NUMBER: 107-2868-0917

EAS 3/04/08 Revised