

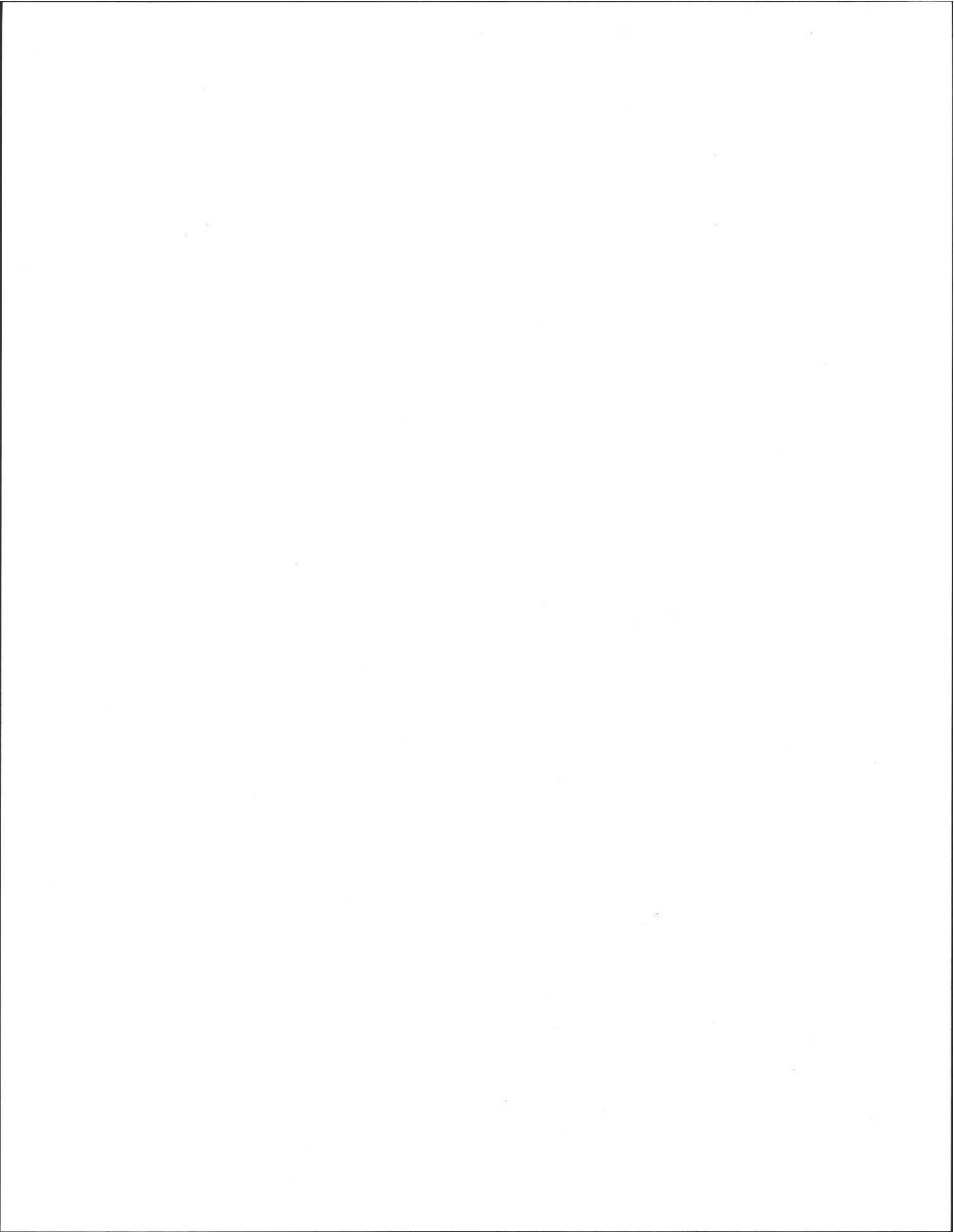
10 STAGE COACH RD

Plan: 10 Stagecoach Rd. Designed by: Alan Weiss

CHECK LIST FOR SEPTIC PLANS

- Application page attached to plan
- PE or RS stamp, date, signature
- Variances to property line setback distances must have Surveyor Stamp 15220 (3)
- Legal boundaries noted
- Easements noted
- Dwellings and buildings existing or proposed noted
- Location of driveway or parking areas, other impervious areas
- Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
- System design calculations
- Garbage grinder Y or N
- Benchmark not disturbed during construction, within 75 feet of facility CMR 15.220 (4)(q)
- North arrow CMR 15.200 (4) (g)
- Contours
- Deep hole location and data
- Perc hole location and data
- Elevations
- Names of approving authority and soil evaluator CMR 15.211 p. 49
- Location of every water supply, public and private CMR 15.220(k):
 - Within 400 feet of system in case of surface water and gravel packed public water supply
 - Within 250 feet of system in case of tubular public water supply
 - Within 150 feet of private supply wells 100' septic sys. ; 50' tank
- Well statement if applicable
- Location of any surface waters, rivers, vegetated wetlands
- Location of water lines and other subsurface utilities
- Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
- Profile of system
- Locus plan to show location of facility, including nearest street
- Materials of construction and specs for system
- Gas Baffle 15.227.4
- Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- Double washed stone
- Schedule 40 PVC for trafficked areas, house to tank
- Distances noted from house to tank, etc.
- If dosing is proposed, design and specs of dosing system
- When alternative technology is required, complete plan and specs, including hydraulic profile
- Trenches preferred over beds CMR 15.240 (6)
- Buoyancy calculations for tanks or components partly below H2O table 15.221(8) p. 56
- 3 to 1 slope outside of mound, toe ending 5 feet from property line
- Local upgrade requests on the plan
- Local upgrade forms attached to application
- Note on plan listing all variances sought in conjunction with the plan

NOTES: _____



No. 09-01

FEE \$450.00
pd

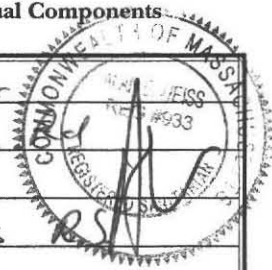
COMMONWEALTH OF MASSACHUSETTS

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>10 Stagecoach Rd</u>	Owner's Name <u>Lauren Bauer</u>
Map/Parcel# <u>30B196</u>	Address <u>10 Stagecoach</u>
Lot# <u>9C</u>	Telephone#
Installer's Name	Designer's Name <u>Alan Weiss</u>
Address	Address <u>Belchertown</u>
Telephone#	Telephone# <u>413.323.5557</u>



Type of Building Residence Lot Size 42,277± sq. ft.
 Dwelling - No. of Bedrooms 3 Bedrooms Garbage grinder (w)
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____
 Design Flow (min. required) 110 gpd Calculated design flow 330 Design flow provided 380 gpd
 Plan: Date 4/11/09 Number of sheets _____ Revision Date _____
 Title Septic System Repair Plan
 Description of Soil(s) Class I (loamy sand)
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 4/6/09

DESCRIPTION OF REPAIRS OR ALTERATIONS Install New Septic 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 [Signature] Date 5/8/09



Inspections _____

No. 09-01

FEE \$150.00
pd

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 (x), Upgraded (), Abandoned ()
 by: Alan Weiss
 at 10 Stagecoach 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. 09-01, dated 5-8-09. Approved Design Flow 380 (gpd)
 Installer [Signature] Designer: [Signature] Inspector: [Signature] Date: 5-9-09

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

No. 09-01

FEE \$300.00
pd

COMMONWEALTH OF MASSACHUSETTS

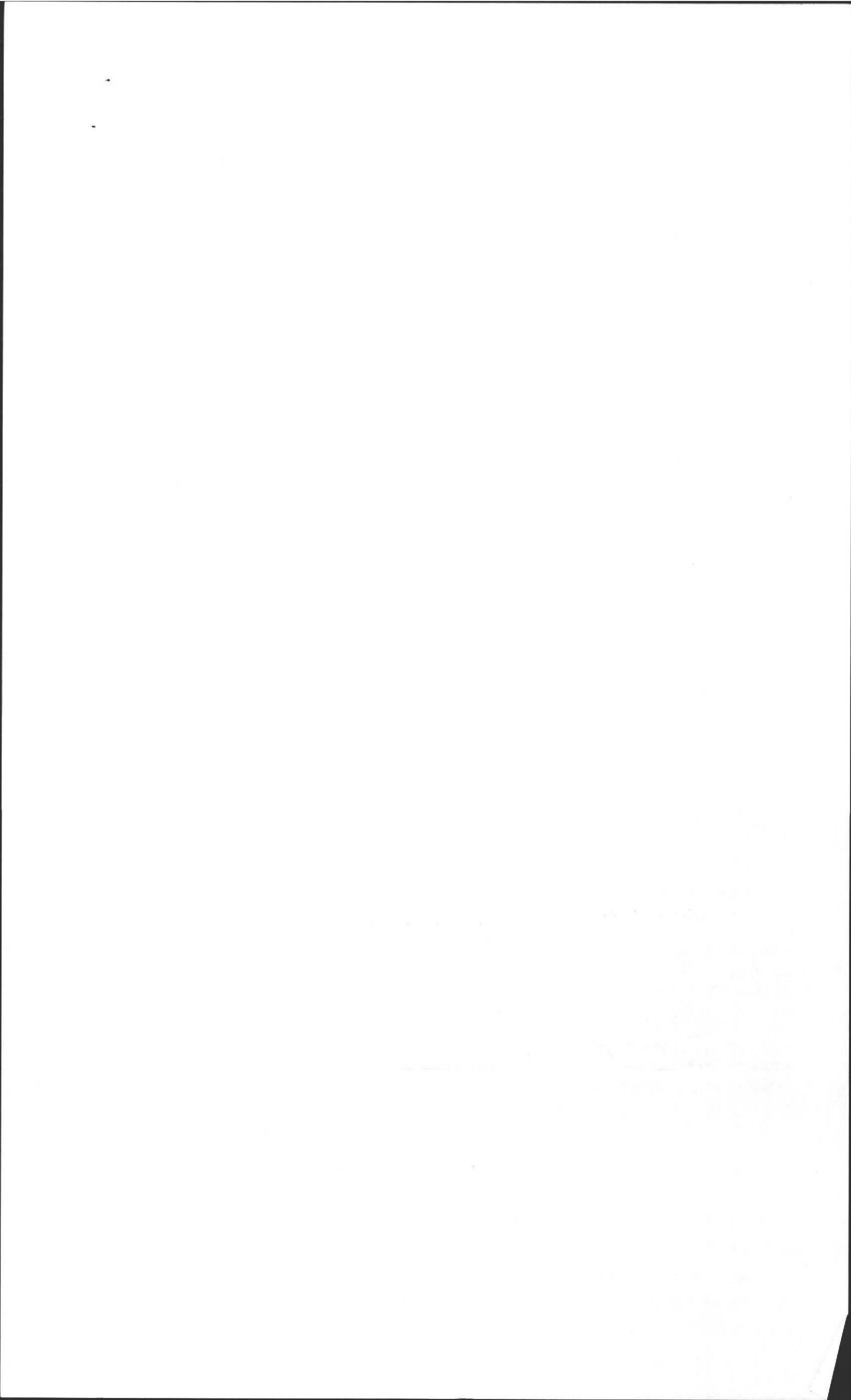
Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair (x) Upgrade () Abandon () an individual sewage disposal system
 at 10 Stagecoach Rd as described in the application for
 Disposal System Construction Permit No. 09-01, dated 4-8-09.

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. Charlestown, MA Date 4-14-09 Board of Health [Signature]





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: 4/6/09

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss
Witnessed By: E. Bokyn

Date:

Location Address or Lot # <u>10 Stagecoach</u>	Owner's Name, Address, and Telephone # <u>L. Bauer</u> <u>10 Stagecoach</u> <u>Amherst, MA</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

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)

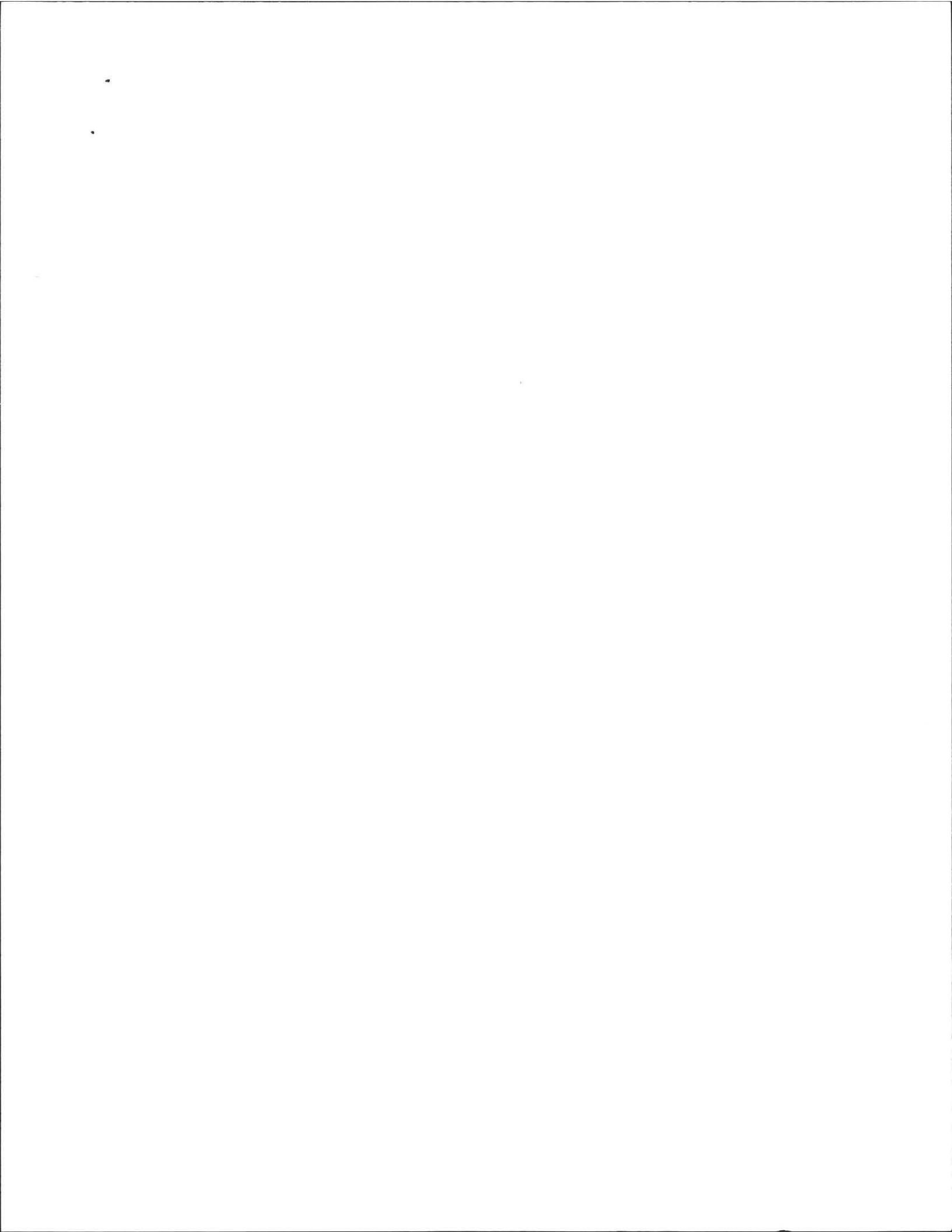
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 10 Stage coach rd

On-site Review

Deep Hole Number 112 Date: 4/6/09 Time: 13:00 Weather Clouds

Location (identify on site plan) _____

Land Use _____ Slope (%) 3 Surface Stones not

Vegetation _____

Landform Terraced

Position on landscape (sketch on the back) _____

Distances from:

Open Water Body 100' feet Drainage way 50' feet

Possible Wet Area 100' feet Property Line 25' feet

Drinking Water Well 100' feet Other _____

Town

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
<u>0-10"</u>	<u>A</u>	<u>FSL</u>	<u>10YR3/3</u>		<u>Friable</u>
<u>10"-26"</u>	<u>Bw</u>	<u>LS</u>	<u>10YR4/6</u>	<u>10YR6/2</u>	<u>Friable, Loose</u>
<u>26"-120"</u>	<u>C</u>	<u>LS</u>	<u>10YR6/2</u>	<u>50"</u> <u>7.5Y 5/8</u>	<u>F.M. Sand. slightly massive. 50% lobbles</u>
<u>0-10"</u>	<u>A</u>	<u>FSL</u>	<u>10YR3/3</u>		<u>Friable</u>
<u>10"-26"</u>	<u>B</u>	<u>LS</u>	<u>10YR4/6</u>	<u>10YR6/2</u>	<u>Friable, Loose</u>
<u>26"-96"</u>	<u>C</u>	<u>LS</u>	<u>10YR6/2</u> <u>4/6</u>	<u>50+</u> <u>7.5Y 5/8</u>	<u>F.M. Sandy, slightly massive</u>

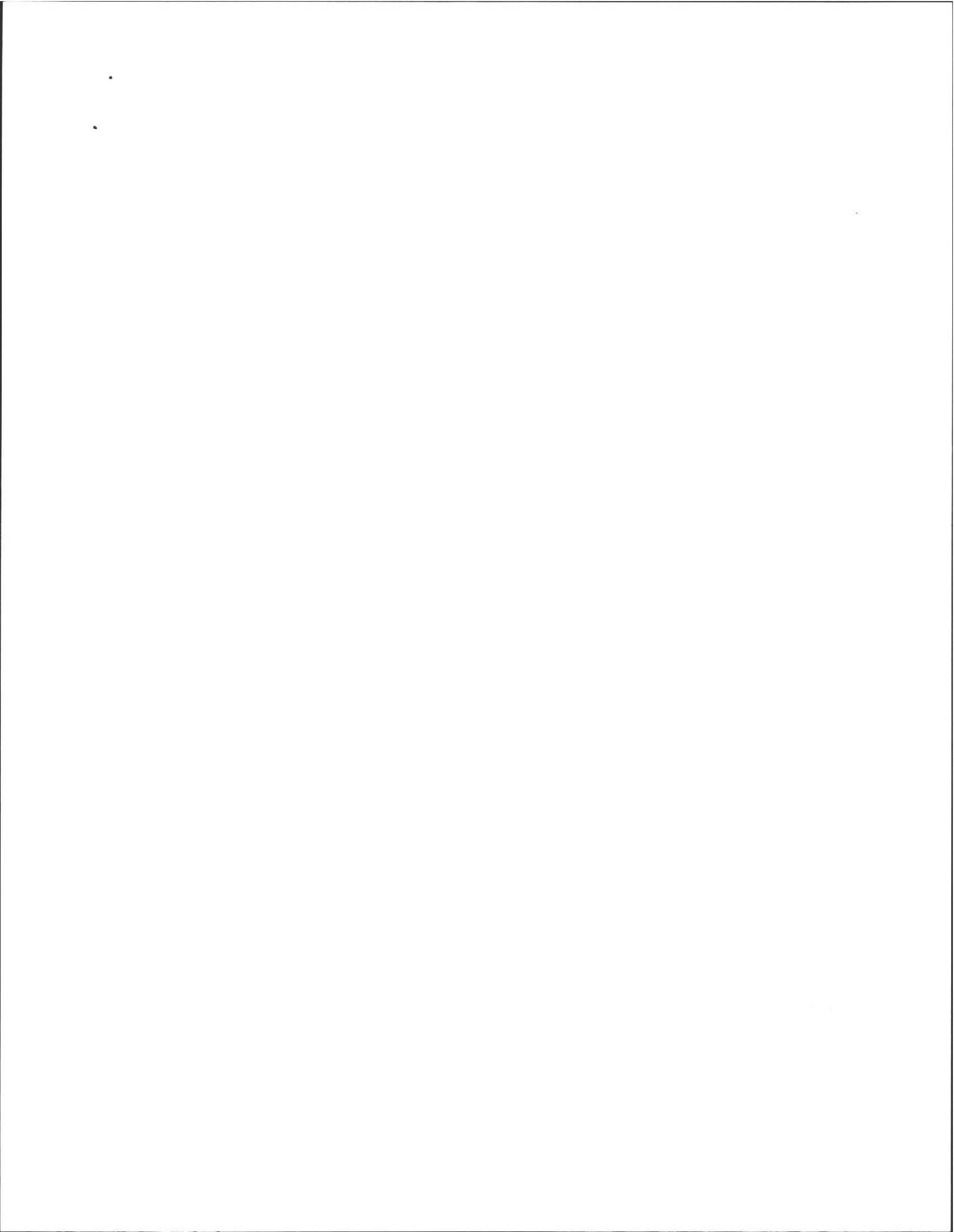
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) LaLoStine Depth to Bedrock: 120"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 50"

Estimated Seasonal High Ground Water: 50"





Location Address or Lot No. 10 Stagecoach Ln.

COMMONWEALTH OF MASSACHUSETTS
Amherst, Massachusetts

Percolation Test*		
Date:	<u>4/6/09</u>	Time: <u>13:00</u>
Observation Hole #	<u>P1</u>	Repair /
Depth of Perc	<u>48"</u>	
Start Pre-soak	<u>12:50</u>	
End Pre-soak	<u>13:05</u>	
Time at 12"	<u>13:05</u>	
Time at 9"	<u>13:21</u>	
Time at 6"	<u>13:43</u>	
Time (9"-6")	<u>22 min</u>	
Rate Min./Inch	<u>8 min / 2 in</u>	

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

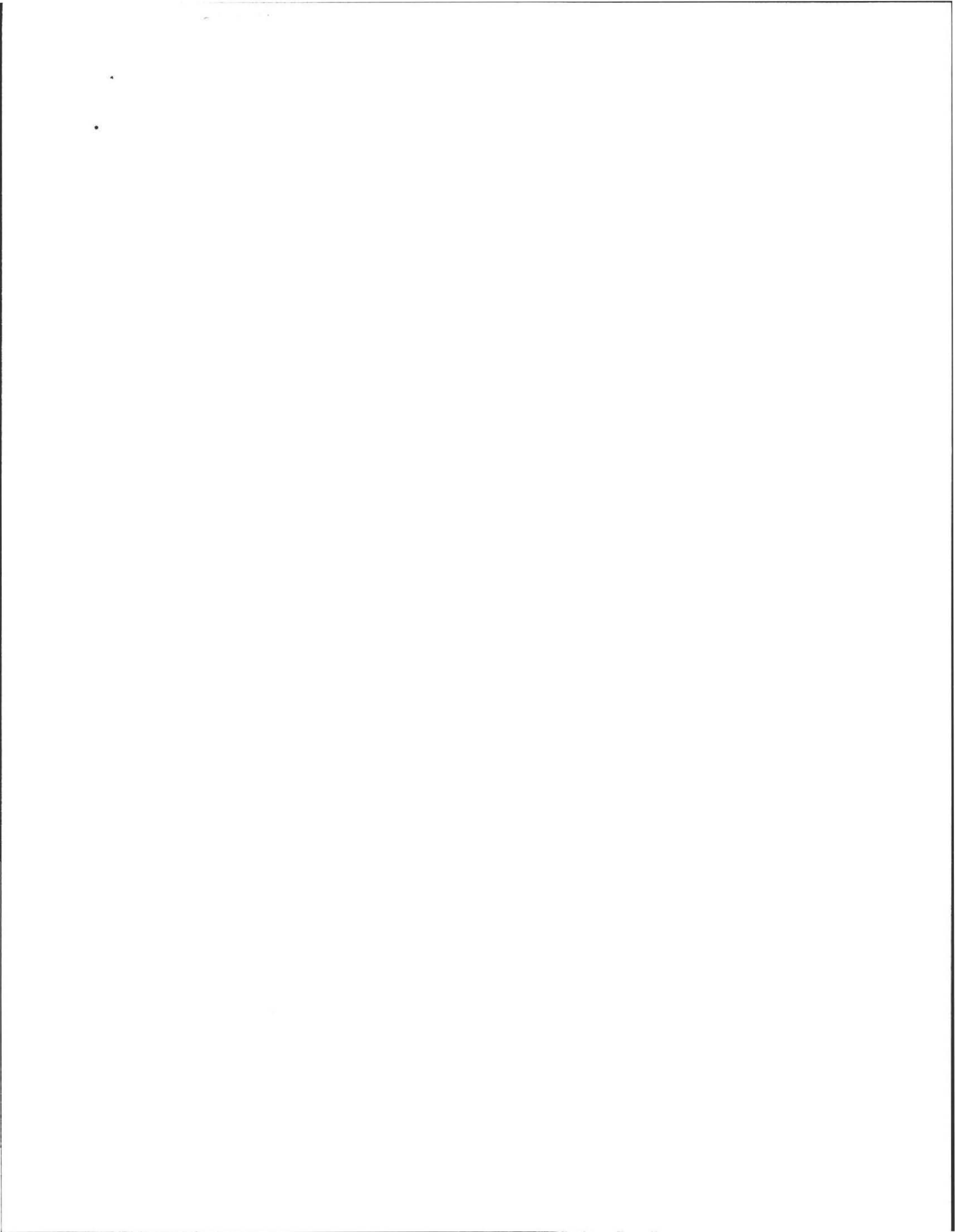
Site Passed Site Failed

Performed By: A. Weiss

Witnessed By: E. Bokwa

Comments: _____





Location Address or Lot No. 10 Stagecoach RD.

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 50" 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

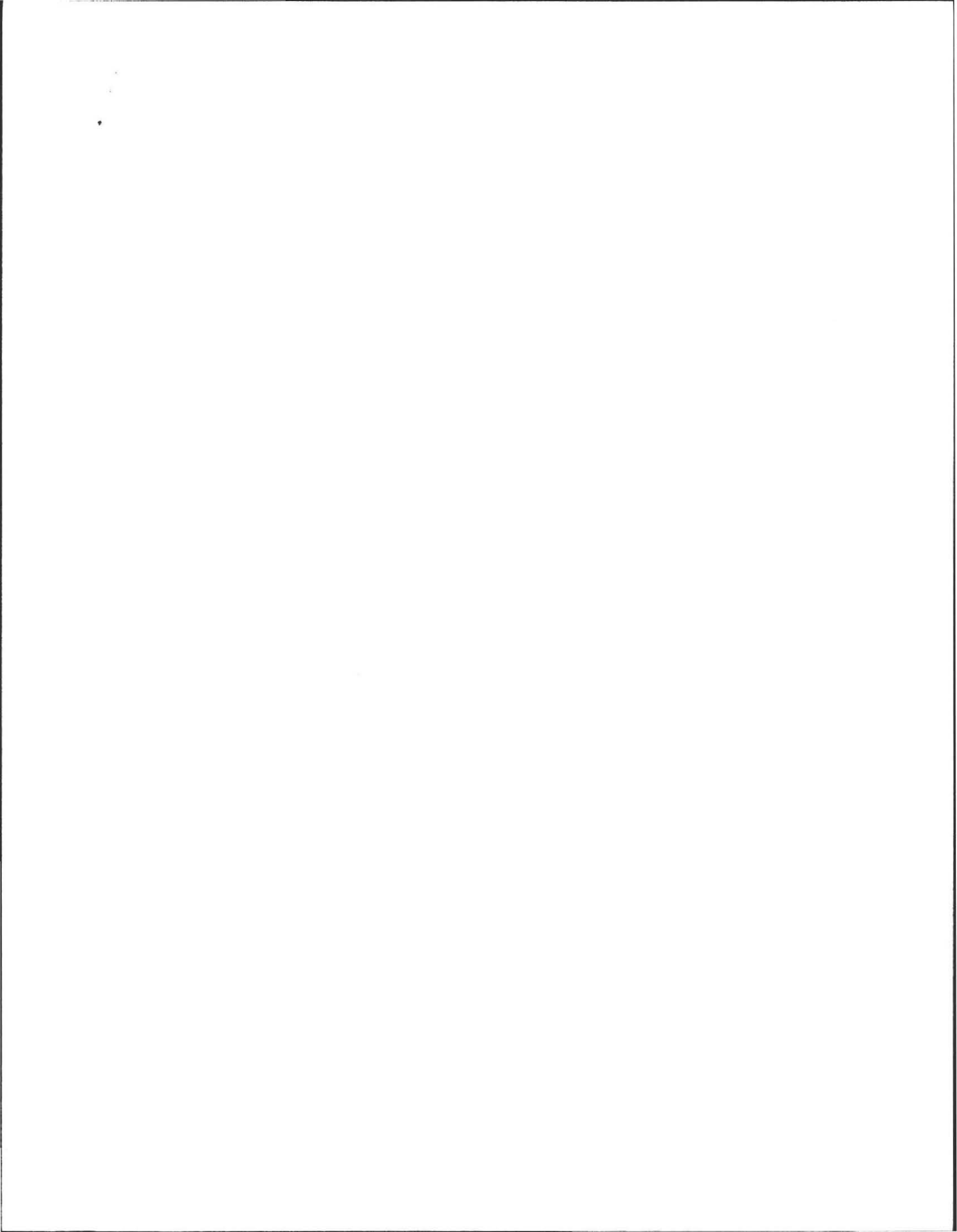
If not, what is the depth of naturally occurring pervious material? _____

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 AL Date 4/6/09





AS BUILT
 05.15.2009
 MAP 30B LOT 96
 SCALE: 1"=30'
 42,277± Sq. Ft.
 0.971± Ac.

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

received
 7-14-09

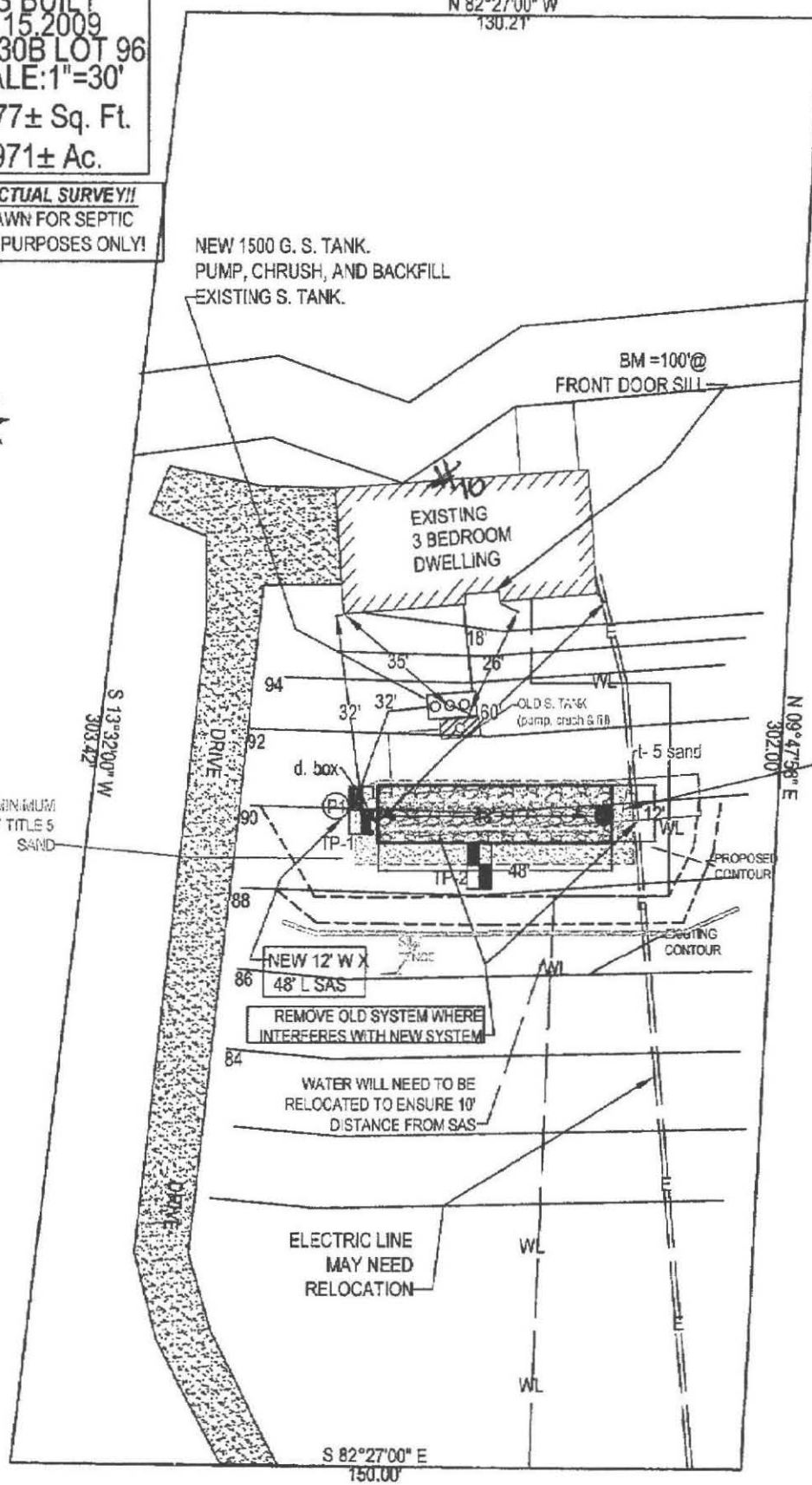
FINAL C



NEW 1500 G. S. TANK.
 PUMP, CHRUSH, AND BACKFILL
 EXISTING S. TANK.

BM = 100'@
 FRONT DOOR SILL

NOTE TO HOME!
 THE DISTANCE
 GROUNDWATER
 SAME AS THE
 TYPICALLY HIGH
 COLD SPRING
 OF FILLED DR.



OBS. PORT
 4" PVC PERF
 USE THREAD CAP
 & REBAR TIE

#10

STAGECOACH ROAD

SCALE IN FEET:
 1"=30'



Town of



AMHERST

Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002

(413) 256-4077
FAX (413) 256-4053
www.amherstma.gov

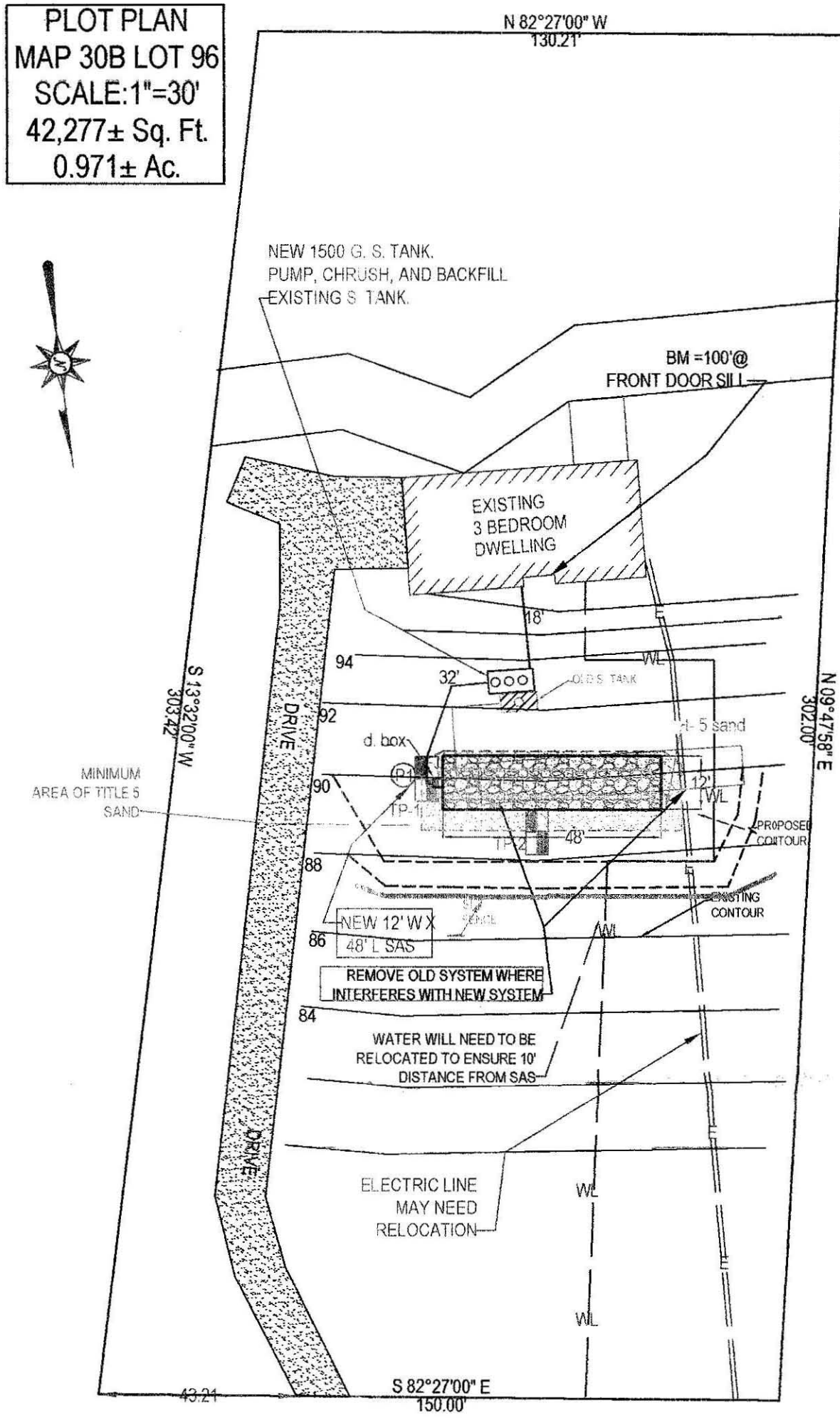
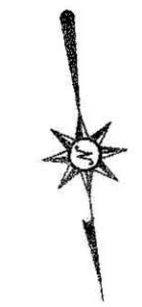
Environmental Health Services
(413) 256-4033



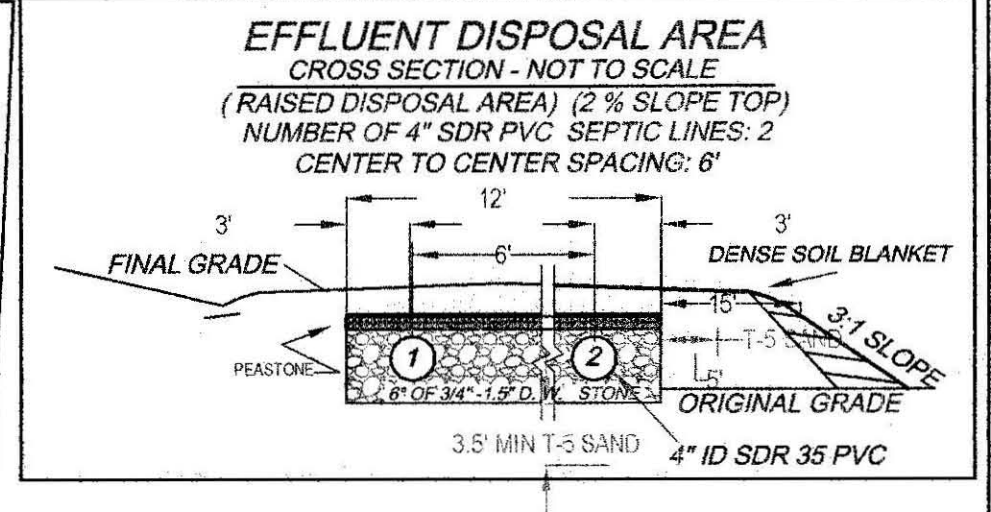
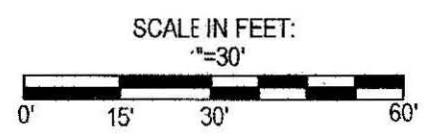
MAKE SMOKING HISTORY



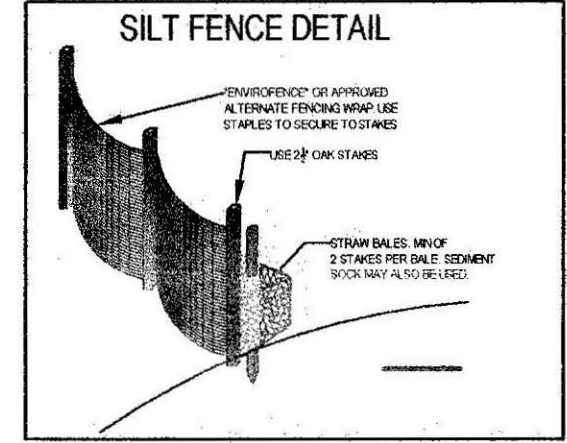
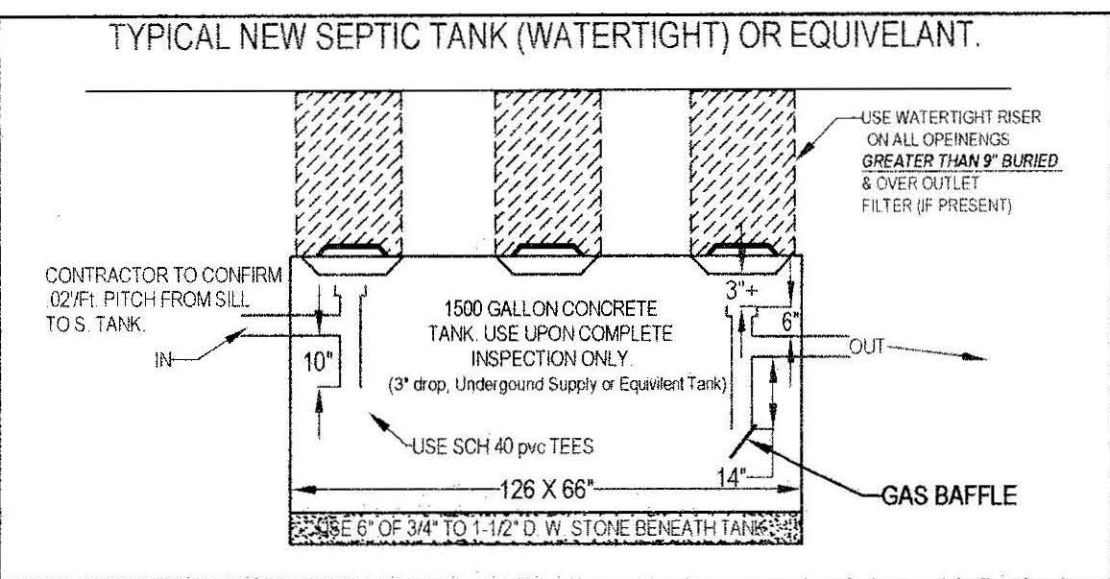
PLOT PLAN
MAP 30B LOT 96
SCALE: 1"=30'
42,277± Sq. Ft.
0.971± Ac.



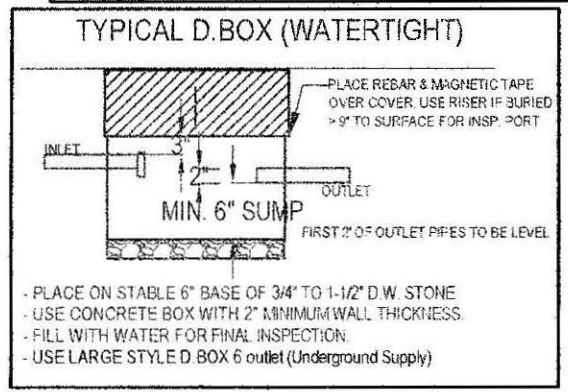
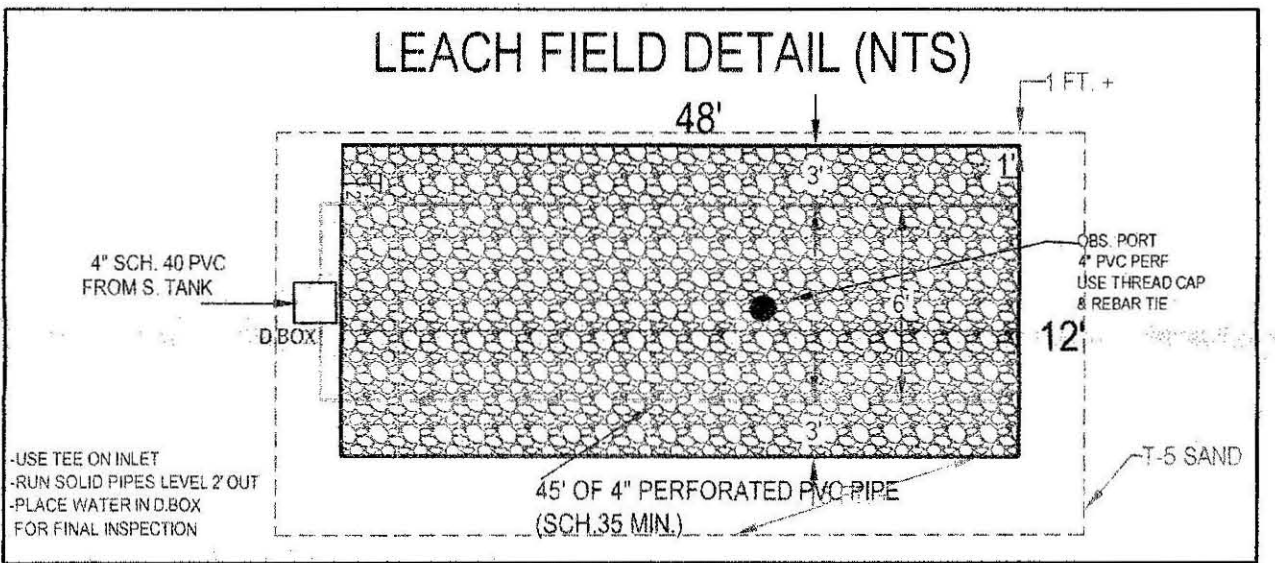
STAGECOACH ROAD



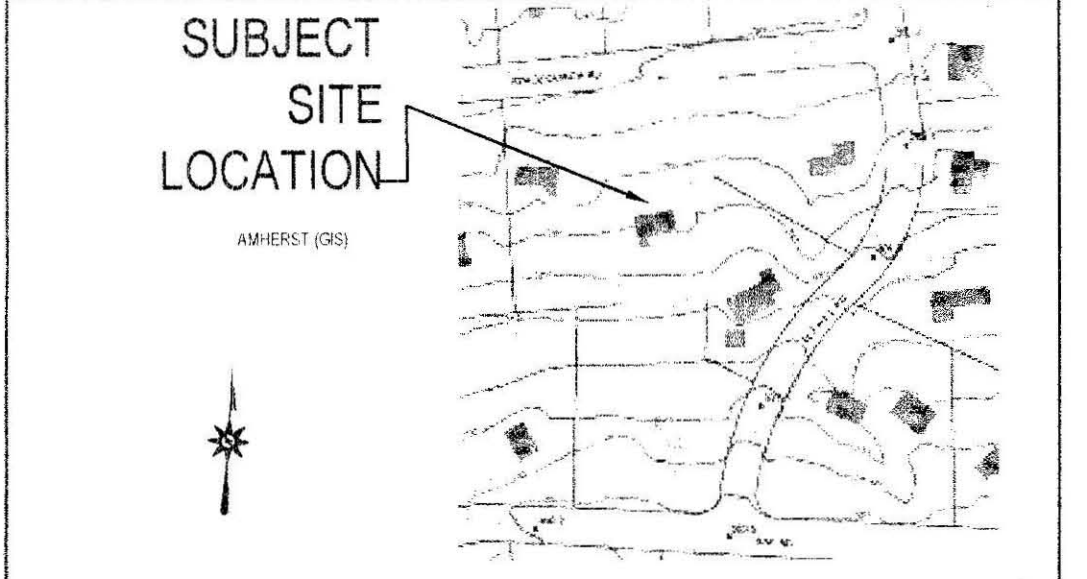
NOTE TO HOMEOWNER: MOUNDS, WHERE USED, ARE REQUIRED BY STATE CODE TO MAXIMIZE THE DISTANCE FROM THE BOTTOM OF THE LEACHING FIELD TO THE TOP OF THE ESTIMATED HIGH GROUNDWATER. THIS "SEPARATION" FROM HIGH GROUNDWATER (3.4 OR 5 FEET), IS NOT THE SAME AS THE HEIGHT OF THE FINISHED MOUND SURFACE. THE ACTUAL FINISHED MOUND IS TYPICALLY HIGHER THAN THE "SEPARATION". BY SIGNING PERMIT YOU ACKNOWLEDGE THAT COLD SPRING ENVIRONMENTAL CONSULTANTS INC. IS NOT RESPONSIBLE FOR THE AESTHETICS OF FILLED OR MOUNDED SYSTEMS.



SLOPING CONDITIONS:
 slope may require engineering review for erosion control and drainage patterns during and after construction. Erosion control during the construction period is recommended with double staked haybales and straw mulch on all open sloping soil areas



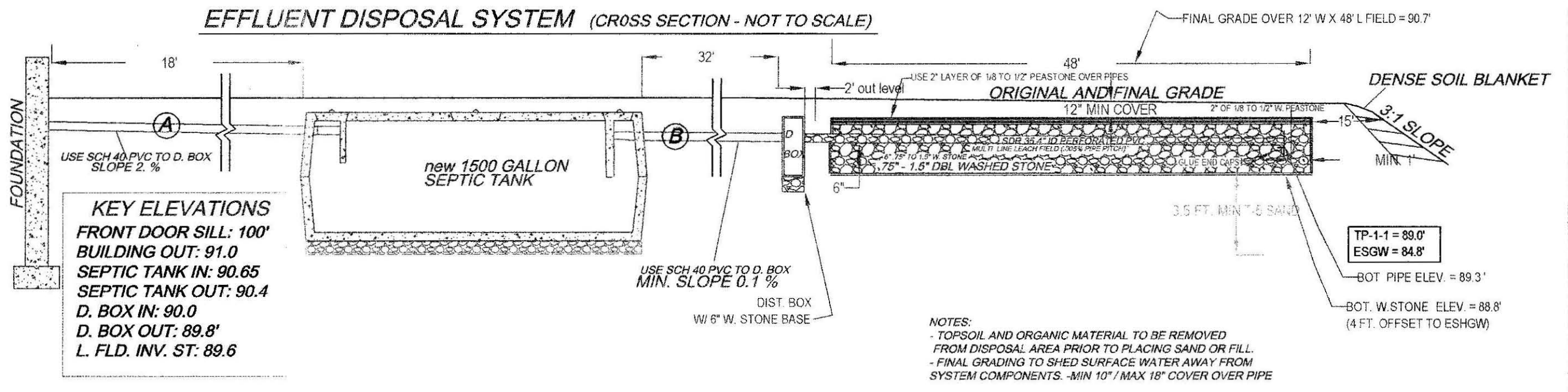
GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.
 1.) HAVE TANK PUMPED EVERY 2 YEARS.
 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW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



- DESIGN NOTES AND CALCULATIONS:**
- 3 (BEDROOM HOME) X 110 GPD /BR = 330 GPD. REQUIRED.
 - Use ONE FIELD: 12' WIDE X 48' LONG WITH 6" OF 3/4" TO 1 1/2" DBL WASHED STONE BELOW INVERT
 - BOTTOM AREA: 12' W X 48' L = 576 SF.
 - SIDE AREA: 0 SF.
 - TOTAL AREA: 576 SF X 0.66 GAL/SF = 380 GPD
 - GARBAGE DISPOSAL NOT ALLOWED. ...
 - NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER).
 - NO OTHER WETLANDS WITHIN 100 FEET OF SAS
 - USE NEW 1,500 GALL. S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
 - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
 - NOTE:
 - ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
 - USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
 - ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
 - NOTE:
 - D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
 - USE APPROVED (.75"-1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
 - CONFIRM STONE PROPERLY DOUBLE WASHED PRIOR TO PLACEMENT.
 - USE PROPER SCH. 40 PVC TEES AS SHOWN.
 - PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs).
 - SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQD.
 - USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO 60" MIN. AS NEEDED (INSPECTION REQUIRED).
 - CLEAR PAST BASE OF B & OLD SYSTEM (MIN. 60") & SCARIFY UNDER BED PRIOR TO TITLE V SAND PLACEMENT.
 - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
 - SOIL EVALUATION BY A. WEISS, RS. 4/6/2009 (E. BOKINA, BOH AGENT).
 - DEPTH OF PERC. .48"
 - PERC RATE = 8 MIN / IN.
 - CLASS 1 SOIL RATING (LOAMY SAND)
 - NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
 - ENGINEER & TOWN TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL
 - BM=100.00 @ (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 SAS AS NOTED.
 - INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
 - USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.

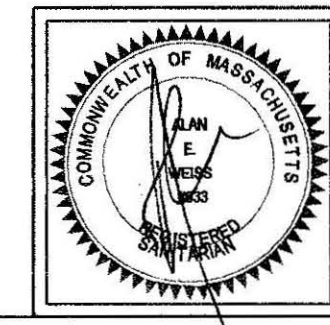
TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 04.06.2009			
TP-1 EFF. ELEV: 89.8'				TP-2 EFF. ELEV:			
DEPTH	HORIZ	TEXTURE (UNDEVELOPED)	MATERIAL	DEPTH	HORIZ	TEXTURE (UNDEVELOPED)	MATERIAL
0-10	A	FSL	10 YR 3/3	0-10	A	FSL	10 YR 3/3
10-26	Bw	LS	10 YR 4/6	10-26	Bw	LS	10 YR 4/6
26-120	C1	LS	10 YR 6/2	26-96	C1	LS	10 YR 6/2
			MASSIVE, 5% COBBLES				MASSIVE
OXIDES: 7.5 Y 5/8 10 YR 6/2 OBS. @ 50"-84.8'				OXIDES: 7.5 Y 5/8 10 YR 6/2 OBSERVED @ 50"			
EHWT: 50"				EHWT: 50"			
STANDING H2O: 100"				STANDING H2O: 100"			
WEEPING: 80"				WEEPING: 80"			
BEDROCK: 126"+				BEDROCK: 96"+			



ATTENTION INSTALLER!!
 CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 4B - 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.



SEPTIC SYSTEM REPAIR PLAN FOR LAUREN BAUER
 10 STAGECOACH ROAD
 AMHERST, MA.

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

PHONE: (413) 323-5957
 FAX: (413) 323-4916
 e-Mail: AWEISS@charter.net

DATE: 4/11/09
 DRAWN BY: ALAN WEISS
 SCALE: 1"=30'

REVISED:
 DRAWING NUMBER: 109-3118-0401

Approved [Signature]