

374 OLD MONTAGUE ROAD



No. 13-13

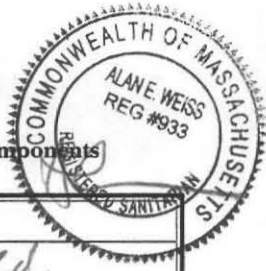
FEE \$150

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 <u>374 Old Montague</u>	Owner's Name <u>Steve Gross</u>
Map/Parcel# <u>2C/25</u>	Address <u>374 Old Montague Rd.</u>
Lot# <u>#25</u>	Telephone# <u>549-0268</u>
Installer's Name <u>Karl's Site Work</u>	Designer's Name <u>Alan Weiss, PS</u>
Address <u>Hartley, MA</u>	Address <u>Boltontown</u>
Telephone# <u>549-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building Residence Lot Size 2.64 ^{Ac} sq. ft.
 Dwelling - No. of Bedrooms 4.5 Garbage grinder NO
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____

Design Flow (min, required) 110 gpd Calculated design flow 440+110 Design flow provided 554 gpd
 Plan: Date 6/24/13 Number of sheets 1 Revision Date _____

Title Sepic System Repair Plan
 Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator Al Weiss Date of Evaluation 6/11/13
E. Smith

DESCRIPTION OF REPAIRS OR ALTERATIONS New Leach Area (Tank as needed)

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 Steve Gross Date 6/11/13

Inspections _____

No. 13-13

FEE \$150

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work: Individual Component(s) Complete System L. Fieldy

The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (), Upgraded (), Abandoned ()
 by: DMO CONST.
 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. 13-13, dated 6/11/13. Approved Design Flow 554 (gpd)

Installer [Signature] Designer: [Signature] Inspector: [Signature] Date: 7/12/13

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

No. 13-13

FEE \$150

COMMONWEALTH OF MASSACHUSETTS

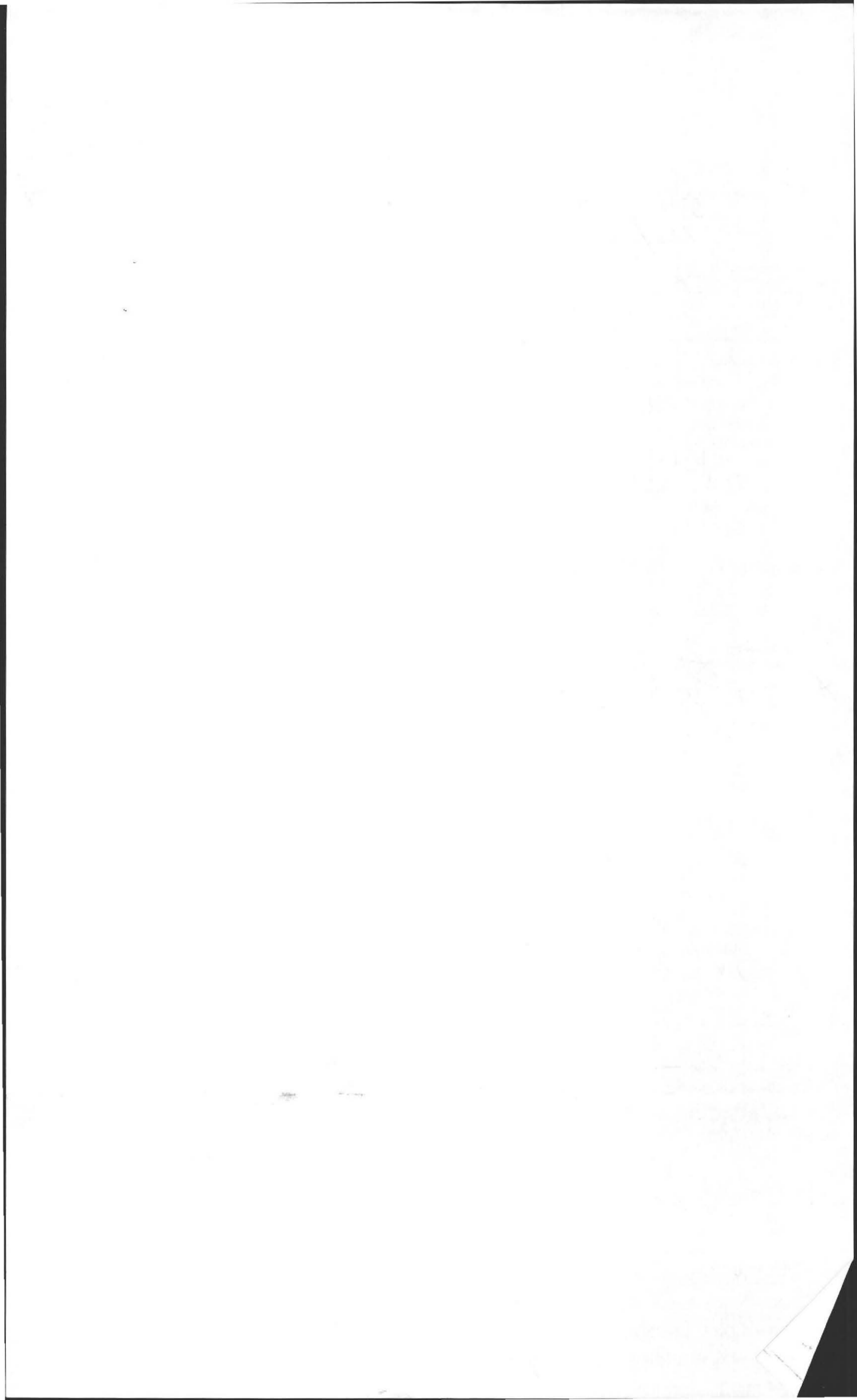
Board of Health, Amherst, MA.

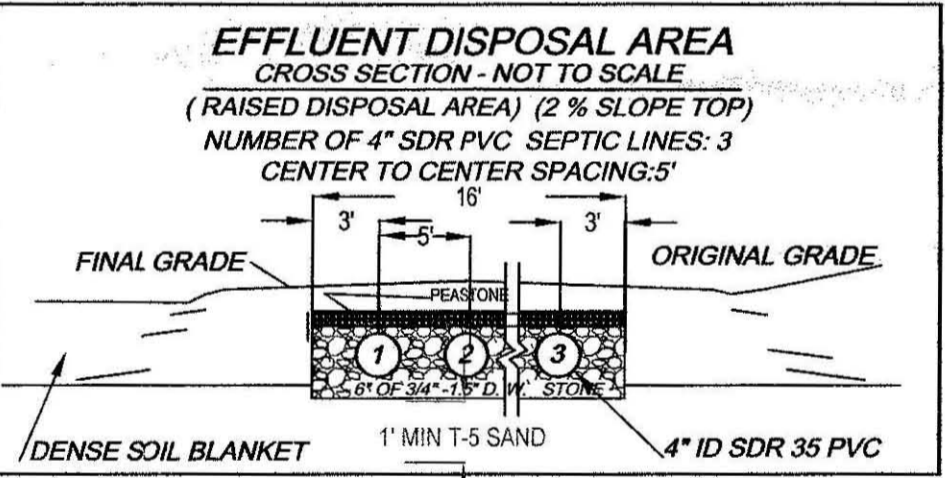
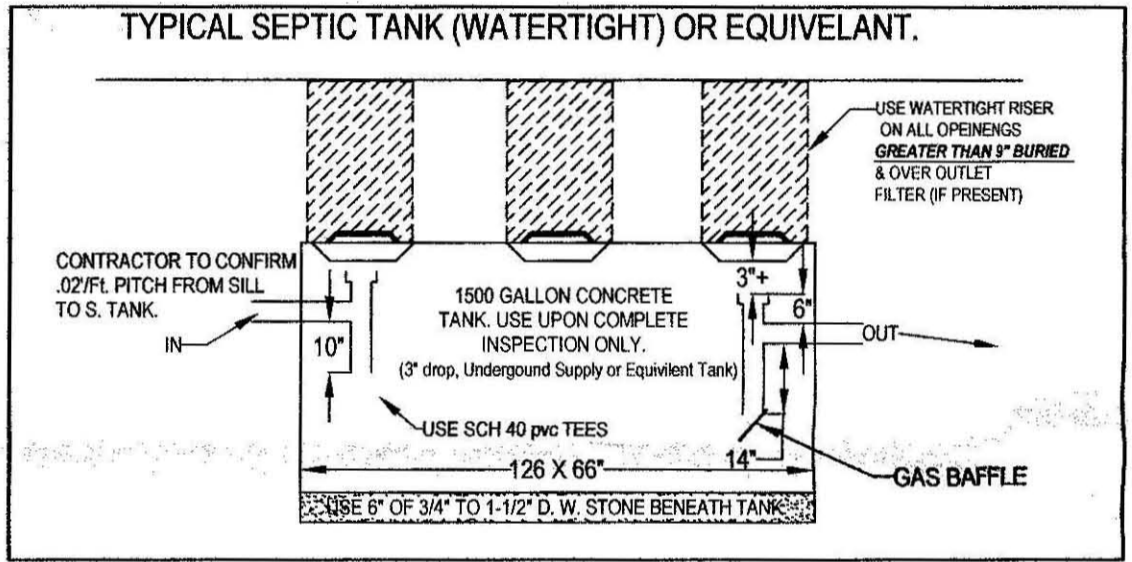
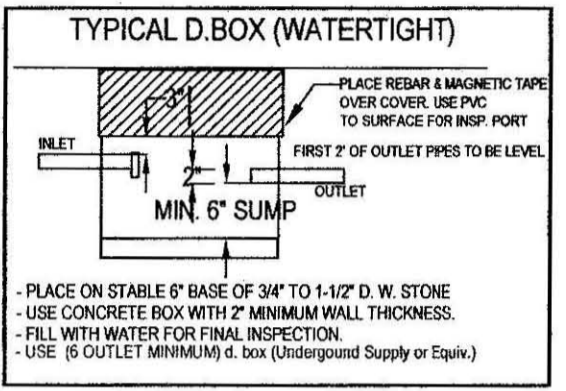
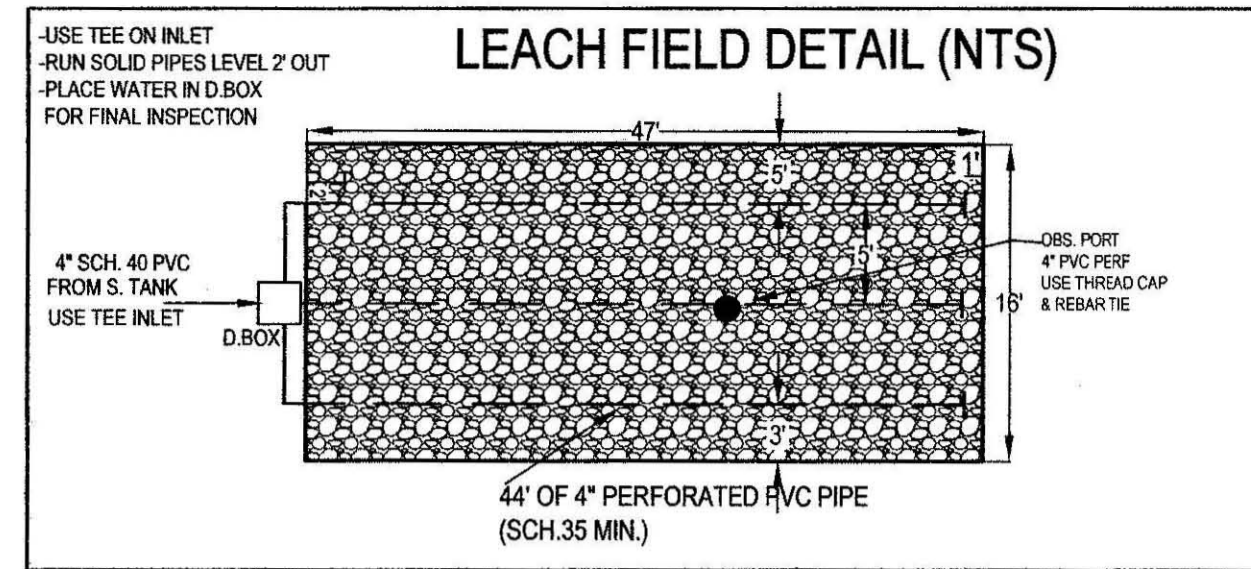
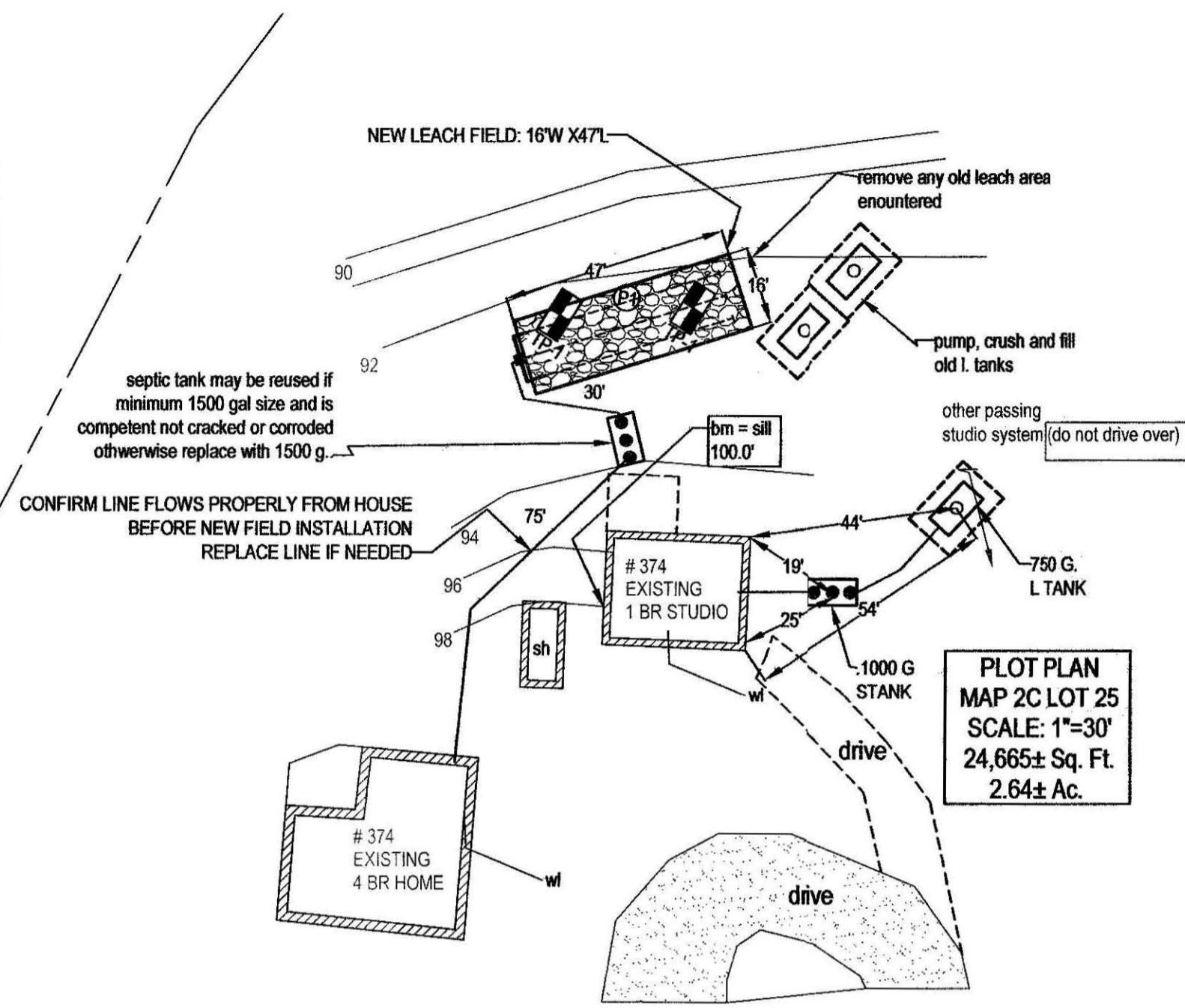
DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair Upgrade () Abandon () an individual sewage disposal system at 374 Old Montague Road as described in the application for Disposal System Construction Permit No. 13-13, dated 6/11/13.

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 7/12/13 Board of Health [Signature]

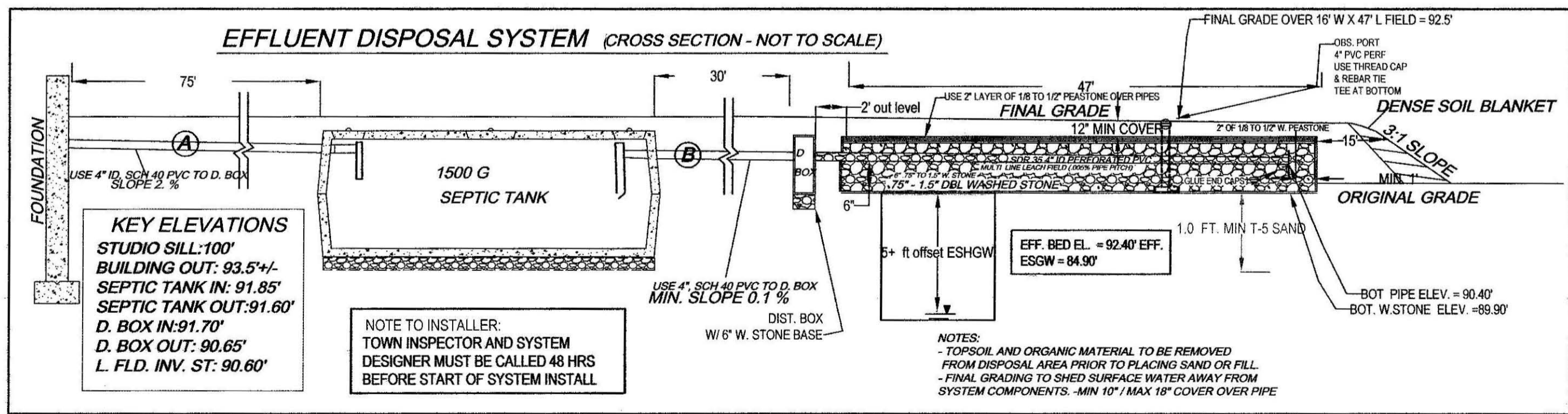




USING EXISTING SEPTIC TANKS:
 AN EXISTING 1,500 GALLON TANK CAN BE USED IF UPON INSPECTION BY THE INSTALLING CONTRACTOR, IF THE TANK IS INSPECTED AND PUMPED AND FOUND TO BE STRUCTURALLY SOUND & WATERTIGHT AT THE TIME OF THE SUBGRADE INSPECTION. IF BAFFLES ARE NOT BUILT IN, THAN SCH 40 PVC TEES MUST BE ADDED. IF TANK IS NOT SOUND THAN, NOTIFY ENGINEER IMMEDIATELY IN ORDER TO ACCOMMODATE A NEW 1,500 GALLON (MIN.) SEPTIC TANK. MUST BE MIN 1500 GAL

0' 30' 60' 90'

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

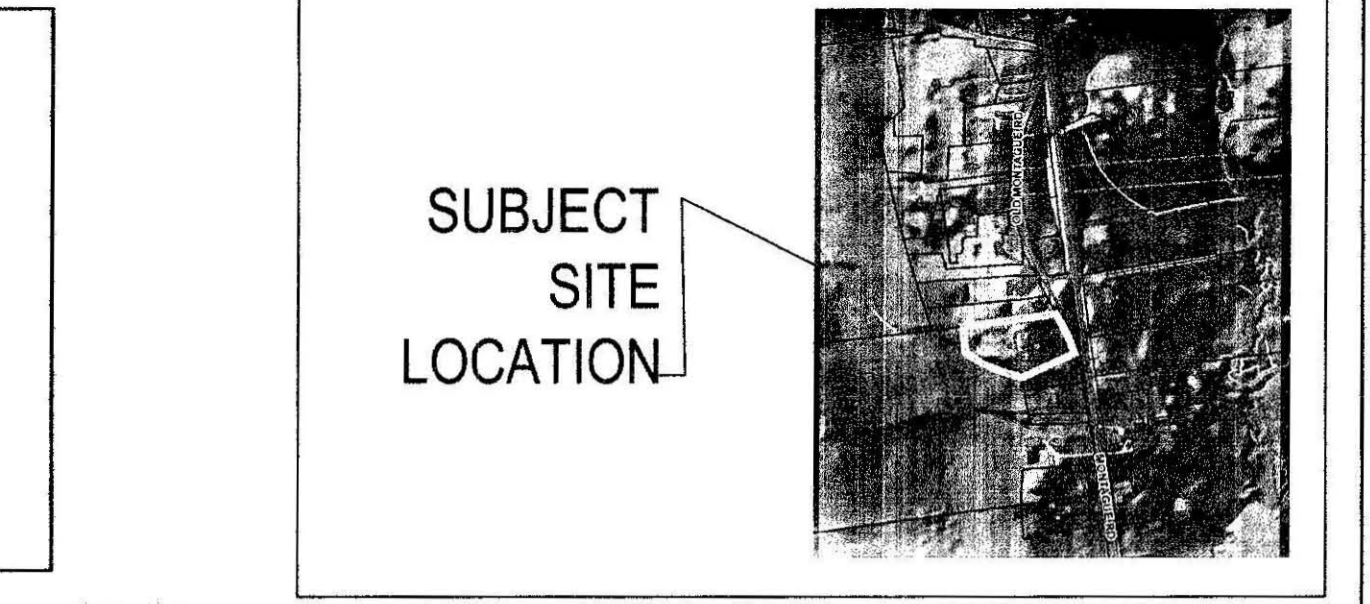


GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.
 1.) HAVE TANK PUMPED EVERY 2 YEARS. 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER. 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM. 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW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

NOTE TO HOMEOWNER AND CONTRACTOR:
 CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELT FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

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.

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.



- ### DESIGN NOTES AND CALCULATIONS:
- 4-5 (BEDROOM HOME) = 550 GPD MIN. REQUIRED.
 -Use LEACHING FIELD 16' WIDE X 47' LONG WITH 6" OF 3/4" TO 1-1/2" DBL WASHED STONE BELOW INVERT:
 - BOTTOM AREA: L. FIELD (16' W X 47' L) = 752 SF.
 - TOTAL AREA: 752 SF X .74 GAL/SF = 556.5 GPD PROVIDED.
 - GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
 - NO PRIVATE WELLS WITHIN 100 FEET OF SAS.
 - NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
 - USE 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.
 - ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
 - USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" STABLE BASE.
 - USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
 - 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. REQ'D.
 - USE FIELD DUKE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO BASE OF RESTRICTIVE LAYER 26" MIN. AS NEEDED (INSPECTION REQUIRED).
 - UNDER BED PRIOR TO TITLE V SAND/STONE PLACEMENT.
 - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
 - SOIL EVALUATION BY A. WEISS, RS. (E. SMITH, BOH AGENT).
 - DEPTH OF PERC. 40"
 - PERC RATE = <2 MIN / IN,
 - CLASS 1, SAND SOIL RATING
 - NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
 - ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
 - BM=100.00 @ (SILL, 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: 06.11.2013	
TP 1 92.40'				TP 2. ELEV.:			
DEPTH:	HORIZ:	TEXTURE:	PL/CL (UNSESS):	DEPTH:	HORIZ:	TEXTURE:	PL/CL (UNSESS):
0-6"	A	FSL	10 YR 3.3	0-8"	A	FSL	10 YR 3.3
6-24"	Dw	LS	10 YR 5.6	8-26"	Dw	LS	10 YR 5.6
24-106"	C1	FS	2.5 Y 5.3	26-106"	C1	FS/LS	2.5 Y 5.3
OXIDES: 90"				7.5 YR 6.8		OXIDES: 90"	
EHWT: 62"						EHWT: 64"	
STANDING H2O: 100"						STANDING H2O: 100"	
WEEPING: 96"						WEEPING: 96"	
BEDROCK: 120' -126+						BEDROCK: -	

SEPTIC DESIGN REPAIR PLAN FOR STEVE GROSS
 374 OLD MONTAGUE ROAD
 AMHERST, MA

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

PHD NO. (413) 323-5957
 SA. AC. (413) 323-4916
 DATE: 6.24.2013
 SCALE: 1"=30'

DESIGNED BY: ALAN WEISS
 DRAWN BY: ALAN WEISS
 REVISIONS:
 113-4111-00529

COMMONWEALTH OF MASSACHUSETTS
 REGISTERED PROFESSIONAL ENGINEER
 PLAN No. 8233-REPAIR

No. 13-13

FEE \$150

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 Component(s)



* X

Location <u>374 Old Montg</u>	Owner's Name <u>Steve Gross</u>
Map/Parcel# <u>2C/125</u>	Address <u>374 Old Montg Rd.</u>
Lot# <u>#25</u>	Telephone# <u>549-0168</u>
Installer's Name <u>Karl's Site Work</u>	Designer's Name <u>Alan Weiss, ES</u>
Address <u>Hadth, MA.</u>	Address <u>Boltontown</u>
Telephone# <u>1549-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building Residence Lot Size 2.64 sq. Ft.
 Dwelling - No. of Bedrooms 4-5 Garbage grinder
 Other - Type of Building _____ No. of persons _____ Showers () Cafeteria ()
 Other Fixtures _____
 Design Flow (min. required) 110 gpd Calculated design flow 440+110 Design flow provided 551 gpd
 Plan: Date 6/24/13 Number of sheets 1 Revision Date _____
 Title Site System Repair Plan
 Description of Soil(s) _____
 Soil Evaluator Form No. _____ Name of Soil Evaluator A Weiss Date of Evaluation 6/11/13
E. Smith
 DESCRIPTION OF REPAIRS OR ALTERATIONS Flow Leach Area (Tank as needed)

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 6/28/13

Inspections _____

No. 13-13

FEE \$150

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. 13-13

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COMMONWEALTH OF MASSACHUSETTS

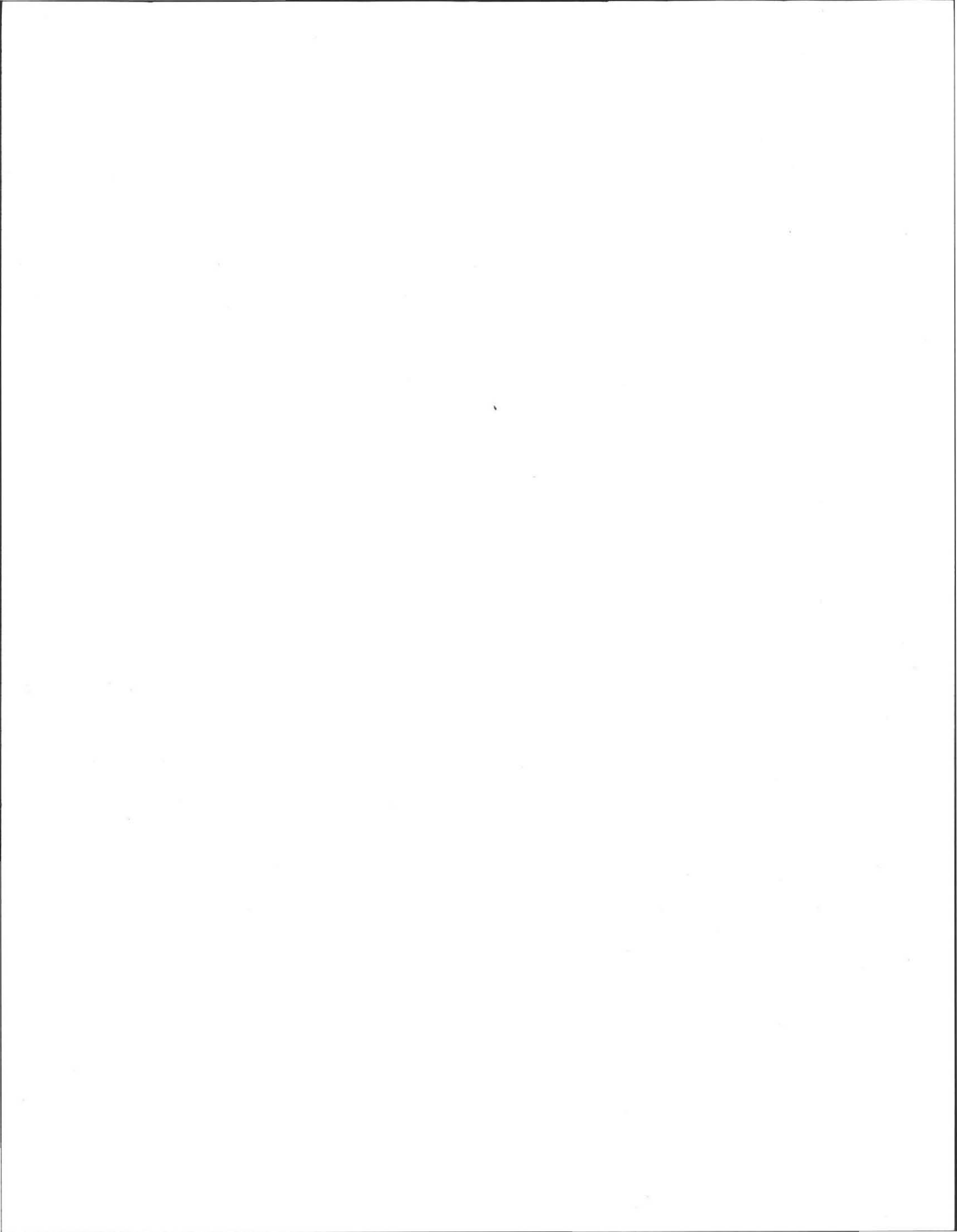
Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at 374 OLD MONTAGUE ROAD as described in the application for Disposal System Construction Permit No. 13-13, dated 6/28/2013

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

Date 6/30/2013 Board of Health [Signature]





ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and
- Septic Designs
- Title 5 Inspections

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

aeweiss@charter.net

Date: 6/11/13

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Witnessed By: E. Smith

Date: 6/11/13

Location Address or Lot # <u>374 Old Montague Rd</u>	Owner's Name, Address, and Telephone # <u>Steve and Carol Gross</u> <u>374 Old Montague Road</u> <u>Amherst, MA 01002</u> <u>413-549-0268</u> <u>413-219-2618 (mobile)</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)

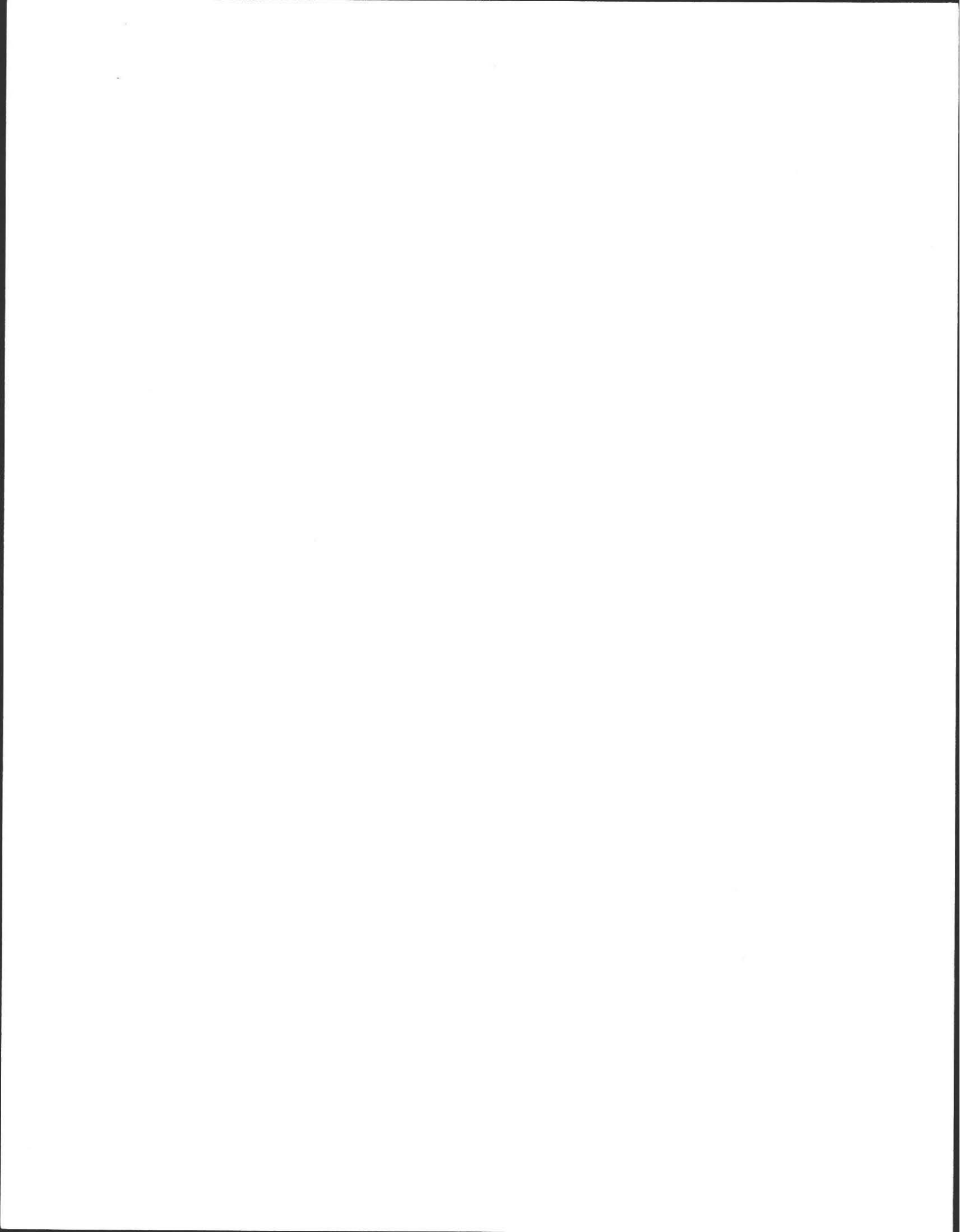
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 374 Old Montague Rd.

On-site Review

Deep Hole Number 1 → 2 Date: 6/11/13 Time: 10:00 Weather Showers

Location (identify on site plan) _____

Land Use Vegetation Slope (%) 2 Surface Stones Few

Vegetation Mixed Deciduous

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 50+ feet
Drinking Water Well 100+ feet Other _____

Town Well

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	Ap	FSC	10YR 3/3		F. Sandy, friable
6"-24"	Bw	LS	10YR 5/6		F. Sandy
24" → 106"	C ₁	FS	2.5Y 5/3	80" 7.5YR 6/8	F. Sand to Med Sand.
0-8"	Ap	FSC	10YR 3/3		↓ F. Sand to C. Sand.
8-26"	Bw	LS	10YR 5/6		
26"-106"	C ₁	FS/LS	2.5Y 5/3	90" 7.5YR 6/8	

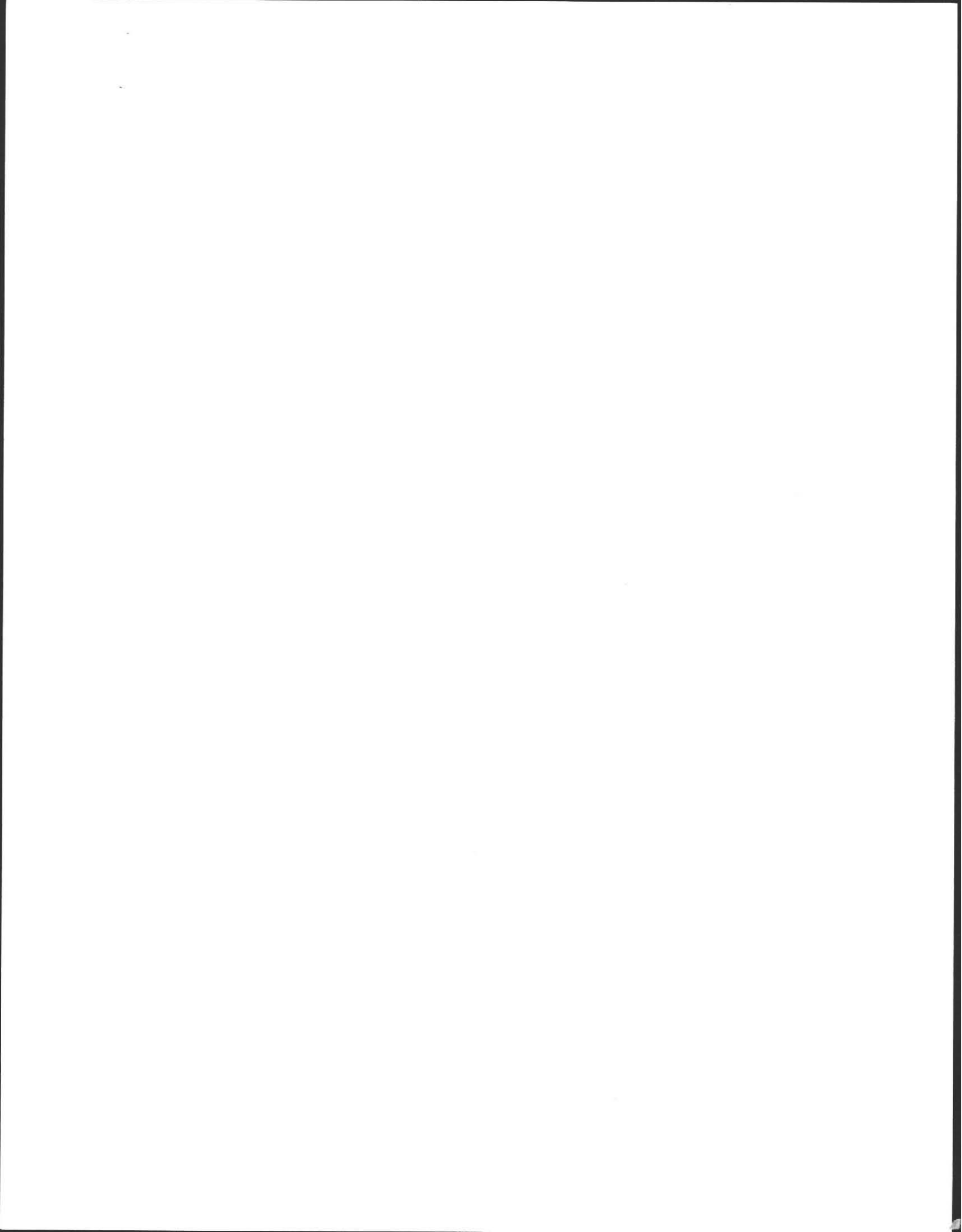
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 106"

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

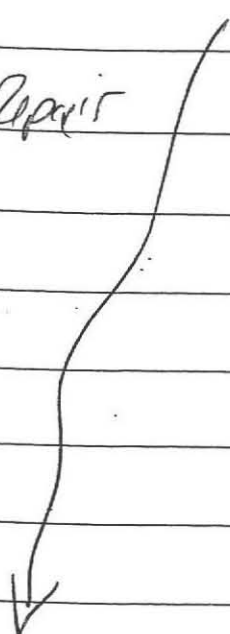
Estimated Seasonal High Ground Water: 80"





Location Address or Lot No. 374 old Montague RD

COMMONWEALTH OF MASSACHUSETTS
Amherst, Massachusetts

Percolation Test*		
Date:	<u>6/11/13</u>	Time: <u>10:00</u>
Observation Hole #	<u>P1</u>	
Depth of Perc	<u>40"</u>	Repair 
Start Pre-soak	<u>10:14</u>	
End Pre-soak	<u>10:29</u>	
Time at 12"	<u>10:29</u>	
Time at 9"	<u>10:31</u>	
Time at 6"	<u>2:37</u>	
Time (9"-6")	<u>42</u>	
Rate Min./Inch	<u>47</u>	

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

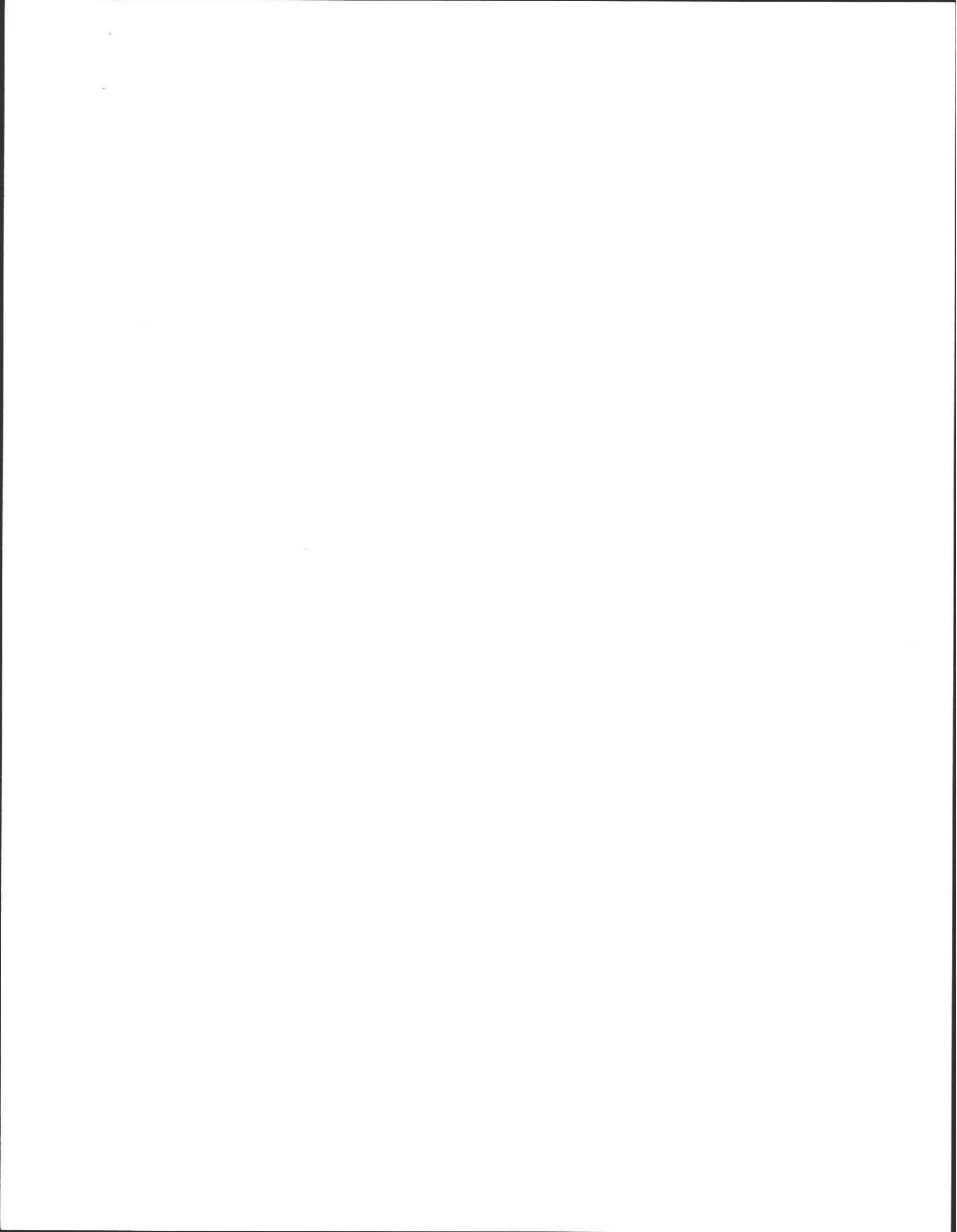
Site Passed Site Failed

Performed By: Alan Weiss RS

Witnessed By: Ed Smith

Comments: _____





Location Address or Lot No. 374 Old Montague 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 80-90" 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

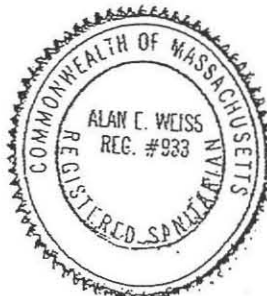
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

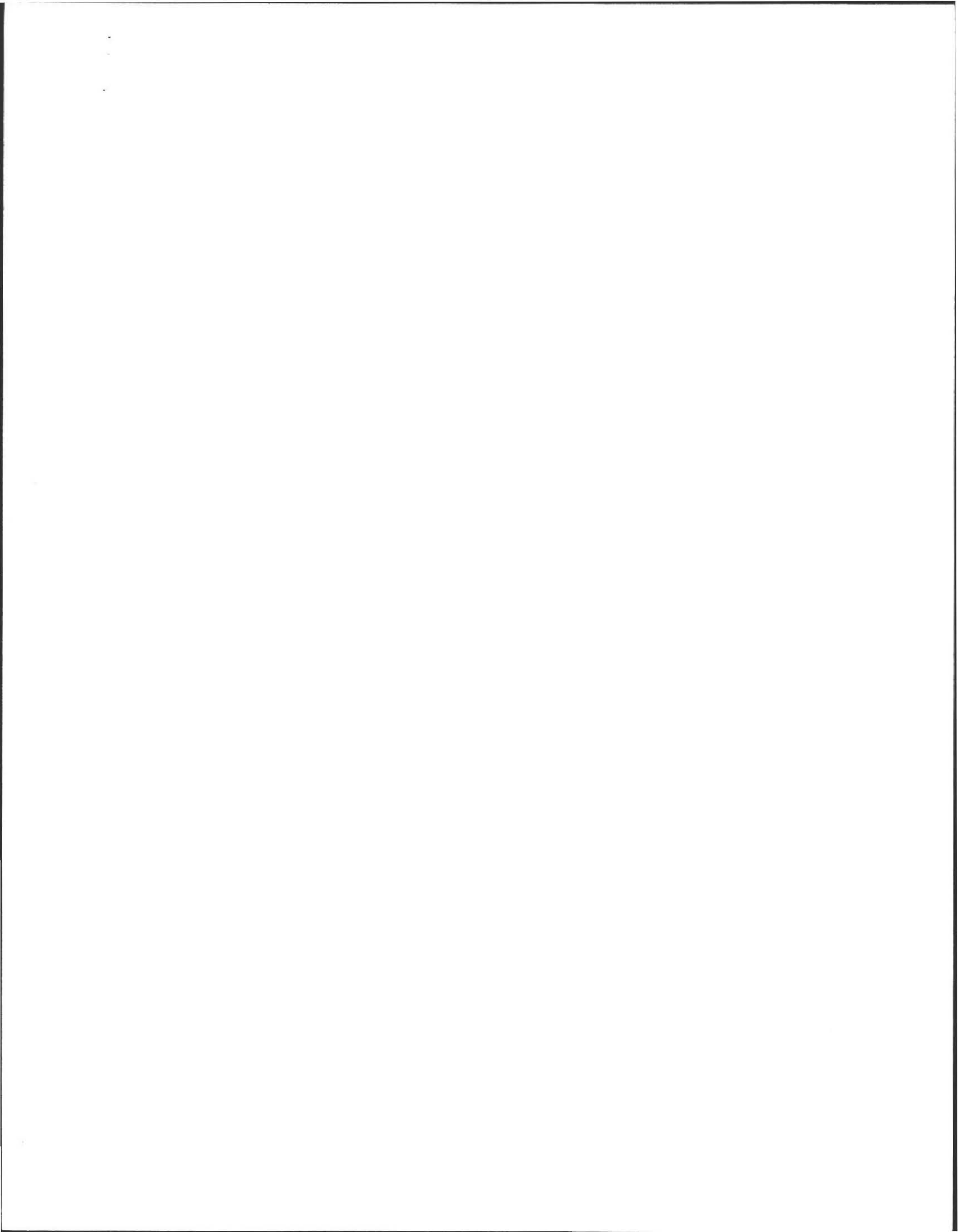
If not, what is the depth of naturally occurring pervious material?

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 *Alc* Date 6/11/13



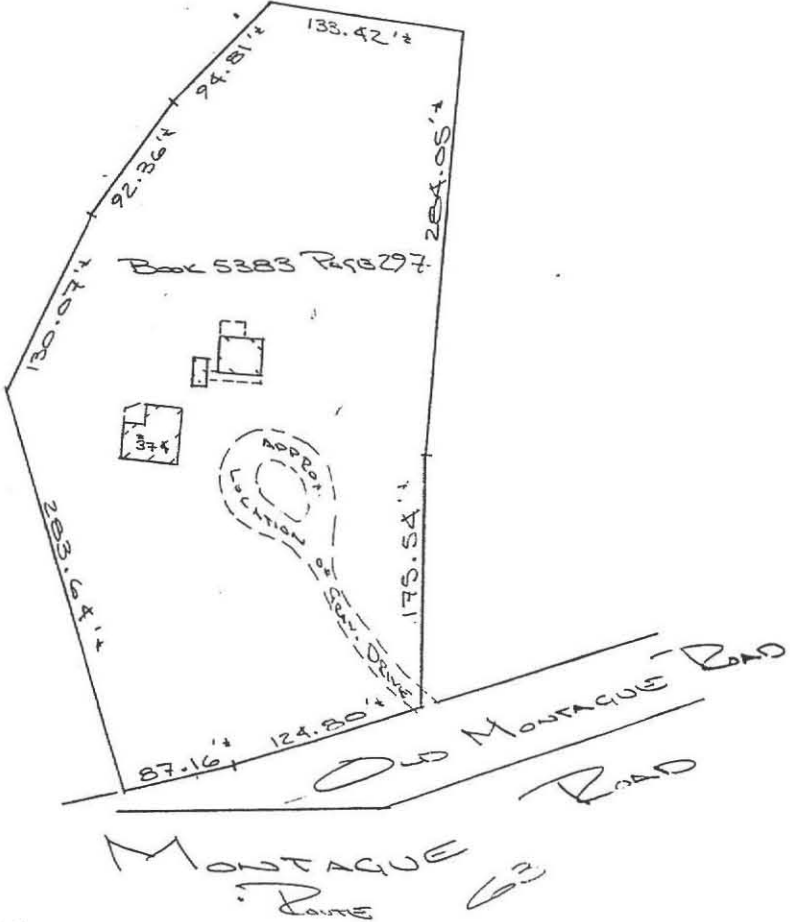


-NOTE-

THIS PLAT IS COMPILED FROM DEEDS, PLANS AND OTHER SOURCES AND IS NOT TO BE CONSTRUED AS AN ACCURATE SURVEY AND IS NOT TO BE RECORDED. BUILDING LOCATION ACCURACY IS NOT GUARANTEED



Note:
- SUBJECT TO AND TOGETHER WITH EASEMENTS AND RIGHTS OF WAYS OF RECORD



TO: PEOPLES SAVINGS BANK & FIRST AMERICAN TITLE INSURANCE COMPANY

TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF I HEREBY REPORT THAT I HAVE EXAMINED THE PREMISES AND BASED ON EXISTING MONUMENTATION ALL VISIBLE EASEMENTS, ENCROACHMENTS AND BUILDINGS ARE LOCATED ON THE GROUND AS SHOWN AND THAT THE BUILDINGS ARE ENTIRELY WITHIN THE LOT LINES, EXCEPT AS NOTED. I FURTHER REPORT THAT THE PROPERTY IS NOT LOCATED WITHIN A FLOOD PRONE AREA AS SHOWN ON FEDERAL FLOOD INSURANCE MAPS FOR COMMUNITY # 250156

SURVEYOR: *Randall E. Izer*



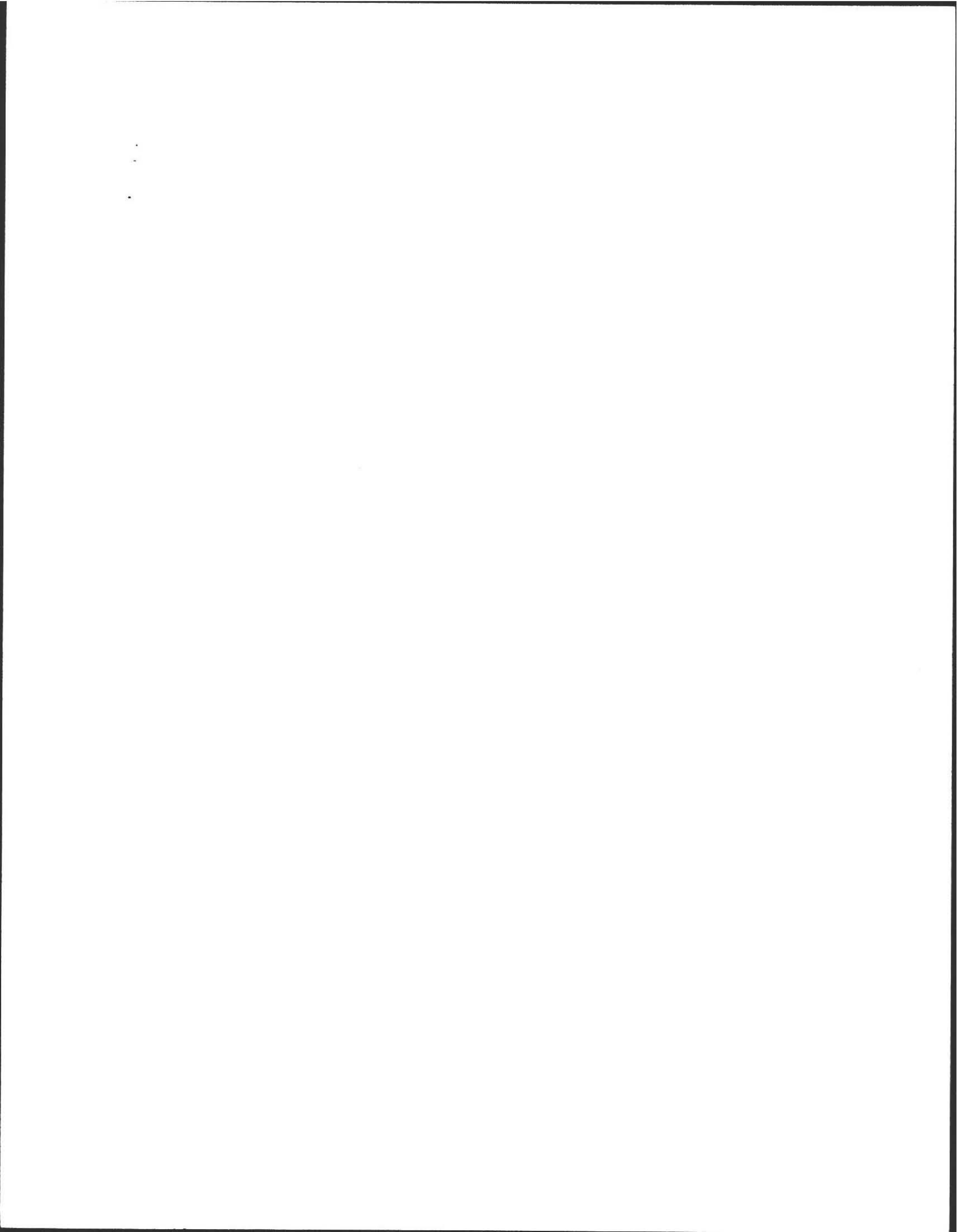
-NOTE- THIS PLAT FOR MORTGAGE LOAN PURPOSES ONLY AND DOES NOT CONSTITUTE A PROPERTY SURVEY

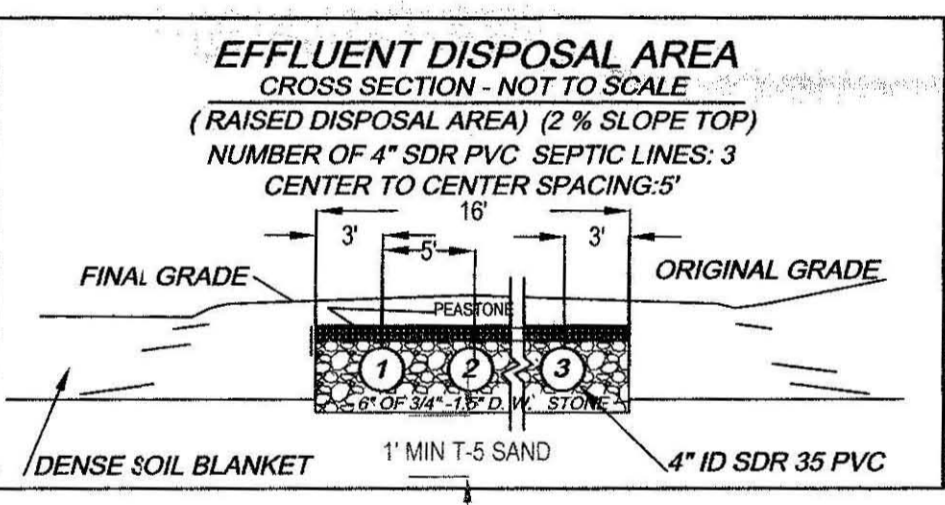
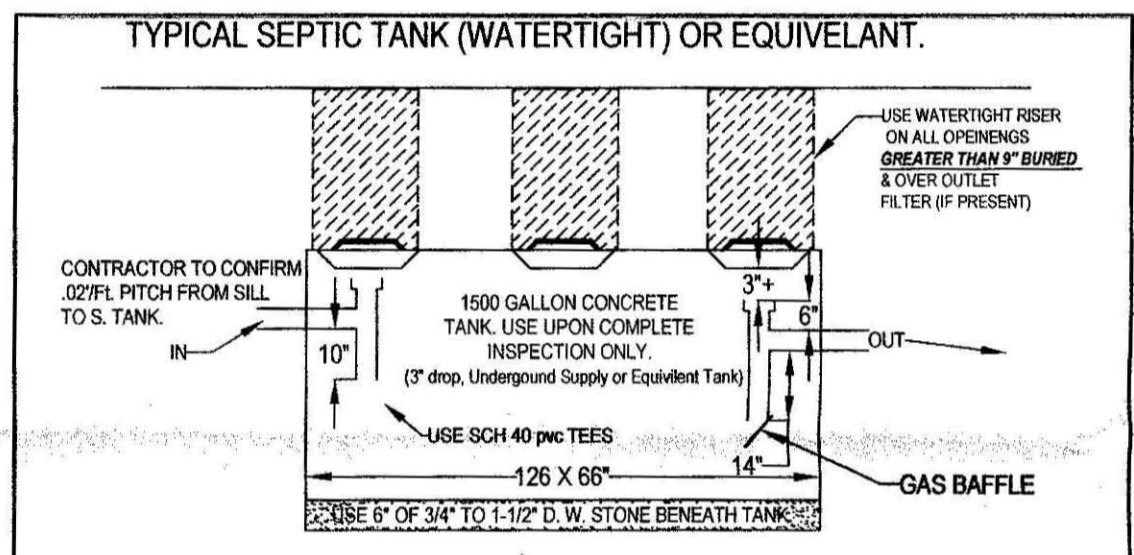
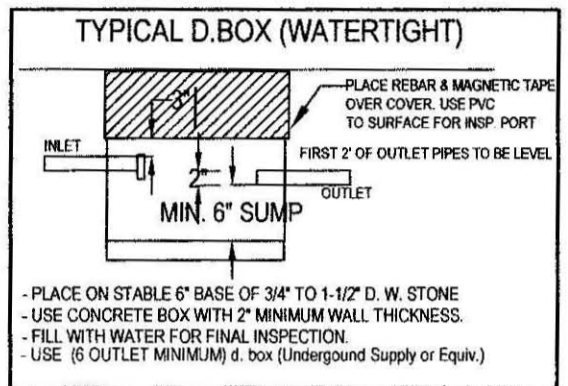
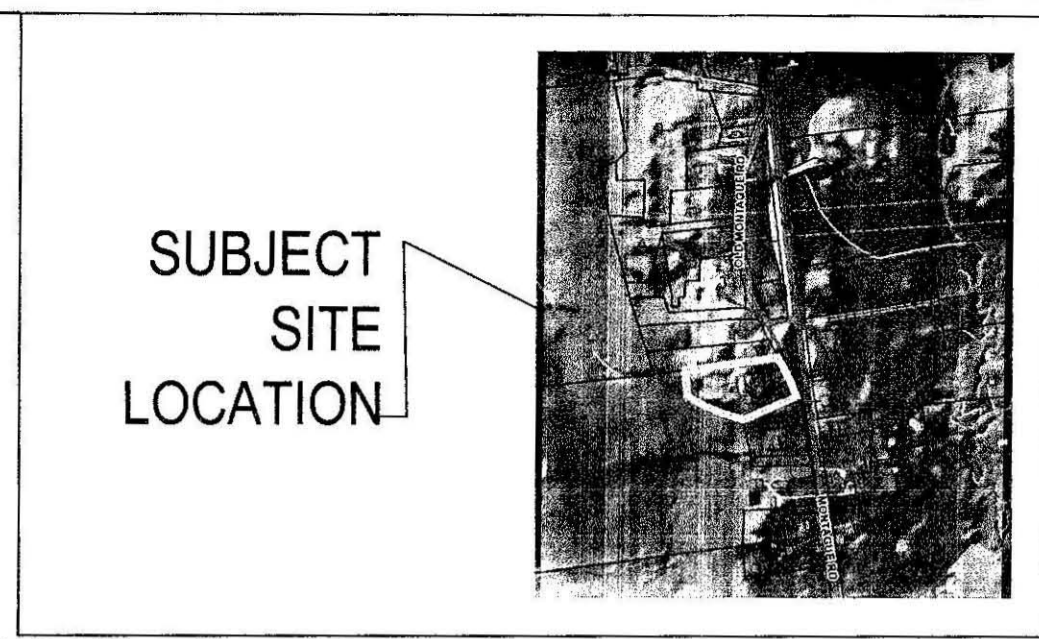
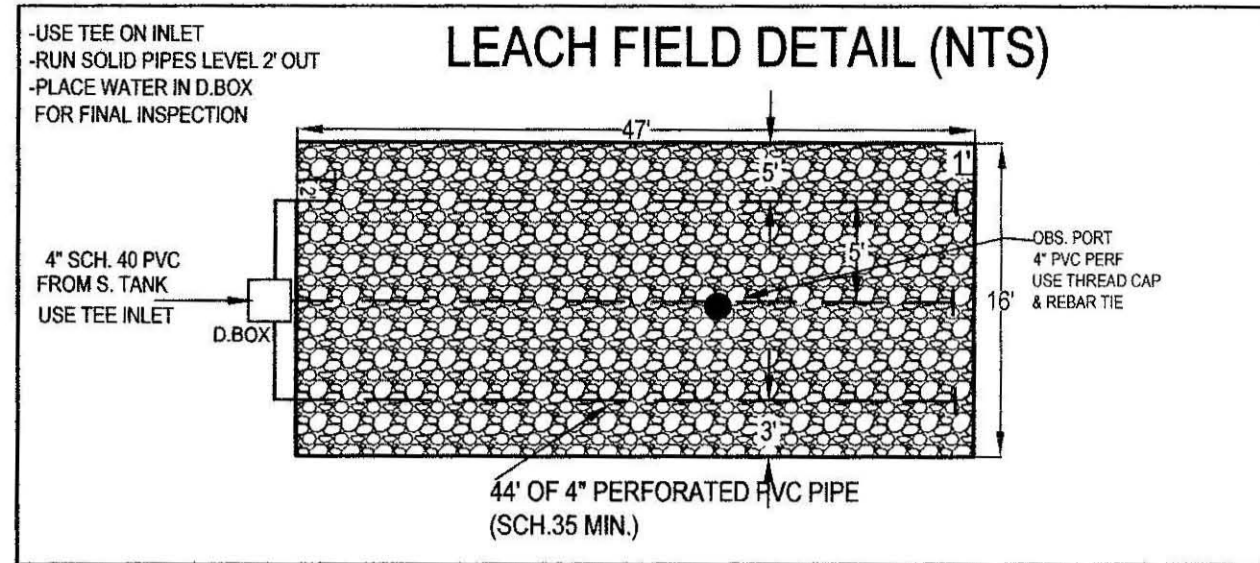
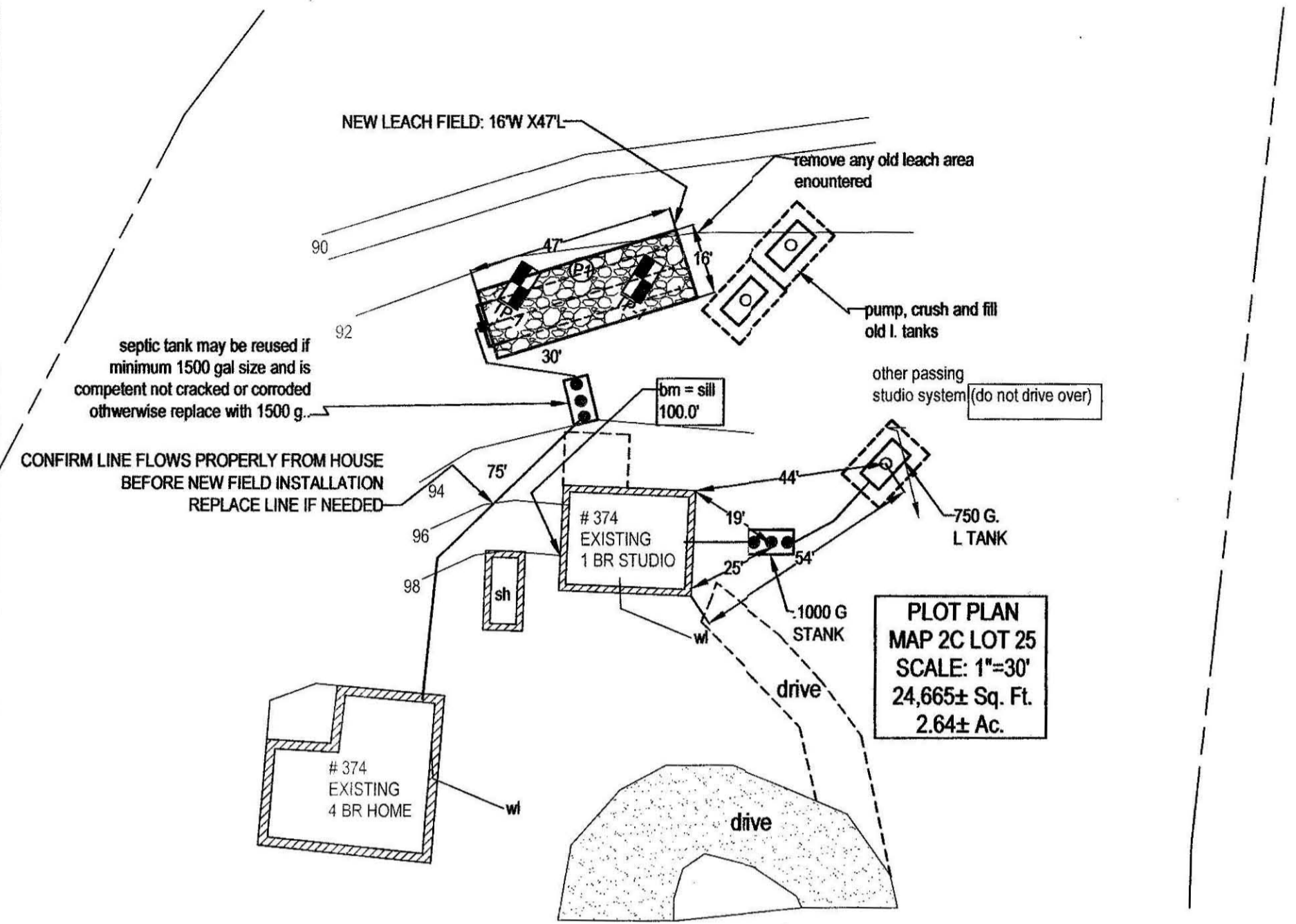
-MORTGAGE LOAN INSPECTION PLAT-

AMHERST, MASSACHUSETTS
PREPARED FOR
JANE A. SINAUER

SCALE: 1"=100' APRIL 25, 2003

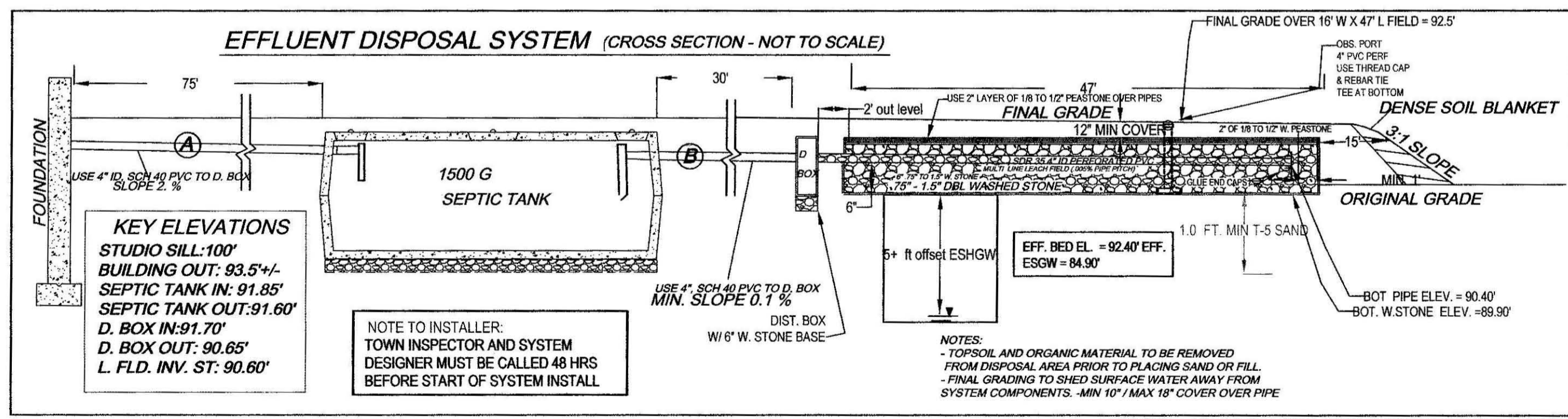
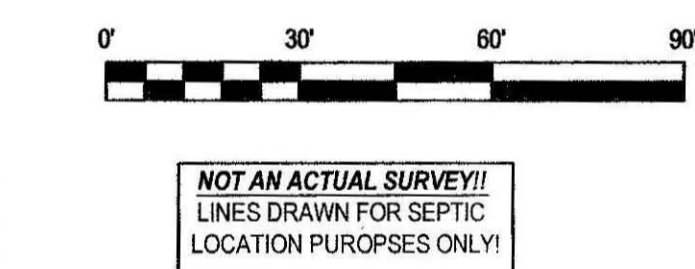
HAROLD L. EATON AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL LAND SURVEYORS
235 RUSSELL STREET - HADLEY - MASSACHUSETTS





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 - NO PRIVATE WELLS WITHIN 100 FEET OF SAS.
 - NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
 - USE 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.
 - ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
 - USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.
 -USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
 - USE PROPER SCH. 40 PVC TEES AS SHOWN.
 - PRE & POST (CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs).
 - SLOPE CALC'S (SEE CONTOURS), SUBGRADE INSP. REQ'D.
 - USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO BASE OF RESTRICTIVE LAYER 26" MIN. AS NEEDED (INSPECTION REQUIRED).
 - UNDER BED: PRIOR TO TITLE V SAND/STONE PLACEMENT.
 - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
 - SOIL EVALUATION BY A. WEISS, RS. (E. SMITH, BOH AGENT).
 - DEPTH OF PERC. 40"
 - PERC RATE = <2 MIN / IN,
 - CLASS 1, SAND SOIL RATING
 - NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
 - ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
 - BM=100.00 @ (SILL, 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: 06.11.2013	
TP 1 92.40'				TP 2. ELEV:			
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):
0-6"	A	FSL	10 YR 3.3	0-8"	A	FSL	10 YR 3.3
6-24"	Bw	LS	10 YR 5.6	8-26"	Bw	LS	10 YR 5.6
24-108"	C1	FS	2.5 Y 5.3	26-106"	C1	FS/LS	2.5 Y 5.3
OXIDES: 90"				OXIDES: 90"			
EHWT: 62"				EHWT: 64"			
STANDING H2O: 100"				STANDING H2O: 100"			
WEEPING: 96"				WEEPING: 96"			
BEDROCK: 120"-126"+				BEDROCK: -			

SEPTIC DESIGN REPAIR PLAN FOR STEVE GROSS
 374 OLD MONTAGUE ROAD
 AMHERST, MA

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

PJ#0-NC: (413) 323-5957
 S-AC: (413) 323-4916
 e-Mail: ACWESS@charter.net

DATE: 6.24.2013
 DRAWN BY: ALAN WEISS
 SCALE: 1"=30'
 REVISED:
 DRAWING NUMBER: 113-4111-00529

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.

NOTE TO HOMEOWNER AND CONTRACTOR:
 CONNECTIONS FROM HEATING SYSTEM, AIR CONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

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.

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.



No. _____

FEE _____

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 Component(s)



Location <u>374 Old Montg</u>	Owner's Name <u>Steve Gross</u>
Map/Parcel# <u>2C / 25</u>	Address <u>374 Old Montague Rd.</u>
Lot# <u>#25</u>	Telephone# <u>549-0268</u>
Installer's Name <u>Karl's Site Work</u>	Designer's Name <u>Alane Weiss, ES</u>
Address <u>Hadley, MA.</u>	Address <u>Baldertown</u>
Telephone# <u>549-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building Residence Lot Size 2.64 +/- sq. ft.

Dwelling - No. of Bedrooms 4-5 Garbage grinder NO

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

Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 440+110 Design flow provided 554 gpd

Plan: Date 6/24/13 Number of sheets 1 Revision Date _____

Title Septic System Repair Plan.

Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator Alane Weiss E. Smith. Date of Evaluation 6/11/13

DESCRIPTION OF REPAIRS OR ALTERATIONS New Leach Area (Tank as needed)

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 _____ Date _____

Inspections _____

No. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, 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. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at _____ as described in the application for

Disposal System Construction Permit No. _____, dated _____.

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 _____ Board of Health _____





ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and
- Septic Designs
- Title 5 Inspections

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

aeweiss@charter.net

Date: 6/11/13

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Witnessed By: E. Smith

Date: 6/11/13

Location Address or Lot # <u>374 Old Montague Rd</u>	Owner's Name, Address, and Telephone # <u>Steve and Carol Gross</u> <u>374 Old Montague Road</u> <u>Amherst, MA 01002</u> <u>413-549-0268</u> <u>413-219-2618 (mobile)</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)

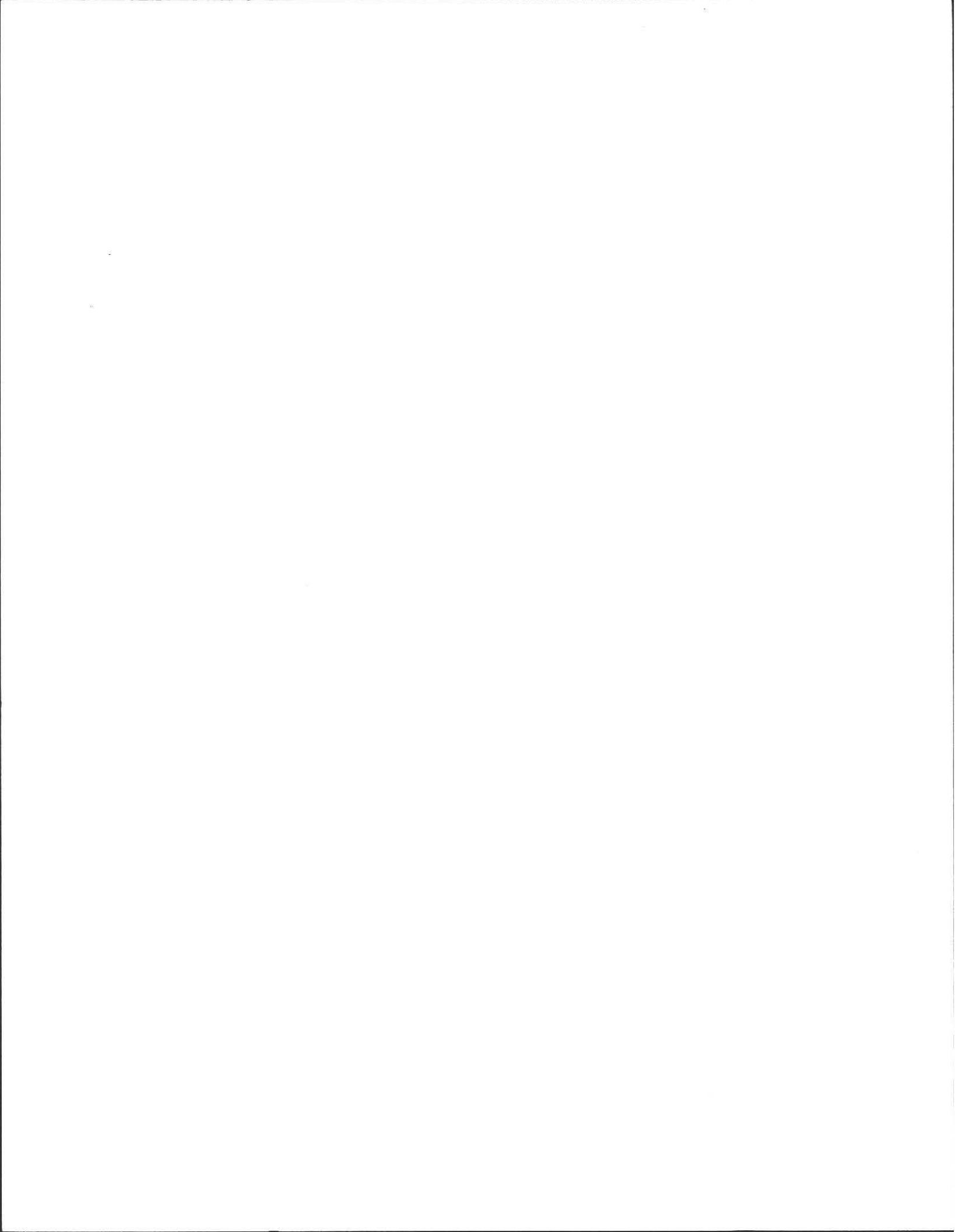
Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 374 Old Montague Rd.

On-site Review

Deep Hole Number 1 → 2 Date: 6/11/13 Time: 10:00 Weather Shower

Location (identify on site plan) _____

Land Use Vegetation Slope (%) 2 Surface Stones Few

Vegetation Mixed Deciduous

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 50+ feet
Drinking Water Well 100+ feet Other _____

Tom water

DEEP OBSERVATION HOLE LOG*

#1

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	Ap	FSC	10YR 3/3		F. Sandy, friable
6"-24"	Bw	LS	10YR 3/6		F. Sandy
24" → 108"	C ₁	FS	2.5Y 5/3	<u>7.5YR 6/8</u>	F. Sand to Med Sand.
0-8"	Ap	FSC	10YR 3/3		
8-26"	Bw	LS	10YR 3/6		
26"-106"	C ₁	FS/LS	2.5Y 5/3	<u>90"</u> <u>7.5YR 6/8</u>	

#2

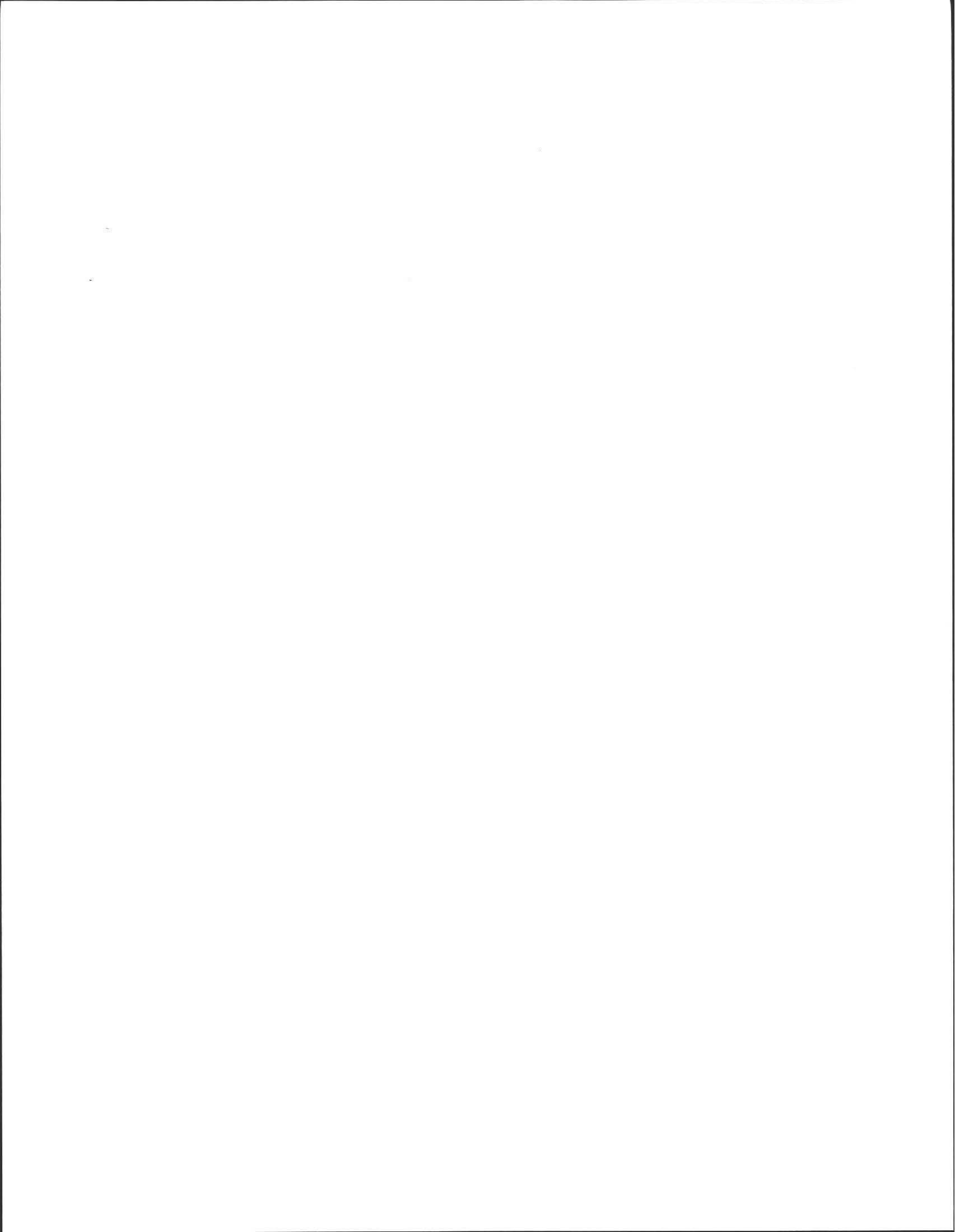
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 106"

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

Estimated Seasonal High Ground Water: 80"





Location Address or Lot No. 374 old Montague RD

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	<u>6/11/13</u>	Time: <u>10:00</u>
Observation Hole #	<u>P1</u>	
Depth of Perc	<u>40"</u>	<u>Repair</u>
Start Pre-soak	<u>10:14</u>	
End Pre-soak	<u>10:29</u>	
Time at 12"	<u>10:29</u>	
Time at 9"	<u>10:31</u>	
Time at 6"	<u>2:37</u>	
Time (9"-6")	<u>42</u>	
Rate Min./Inch	<u>47</u>	

* Minimum of 3 percolation test must be performed in both the primary area AND reserve area.

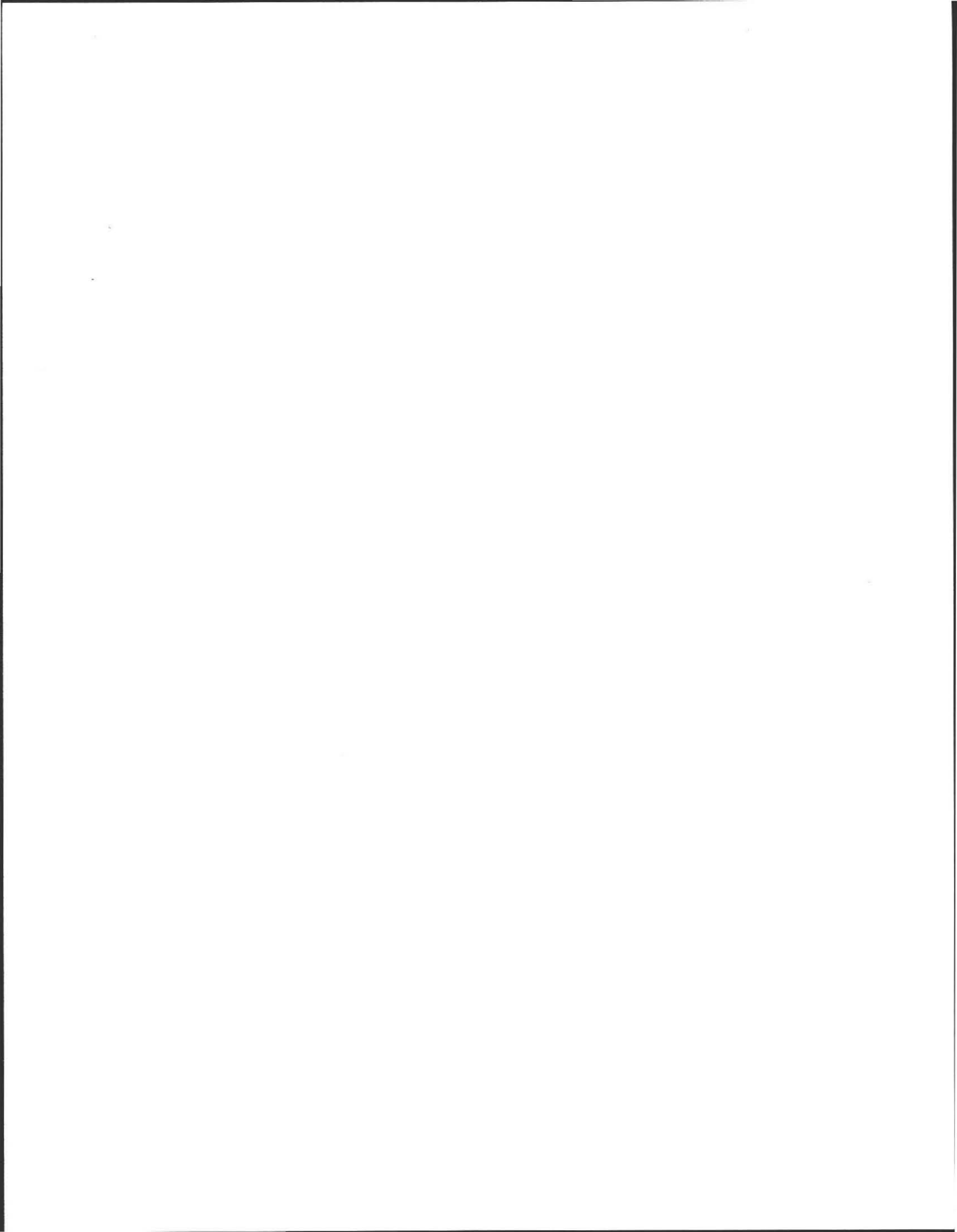
Site Passed Site Failed

Performed By: Alan Weiss RS

Witnessed By: Ed Smith

Comments: _____





Location Address or Lot No. 374 old Montague 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 80-90" 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

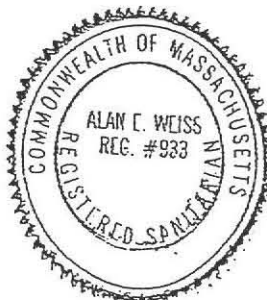
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

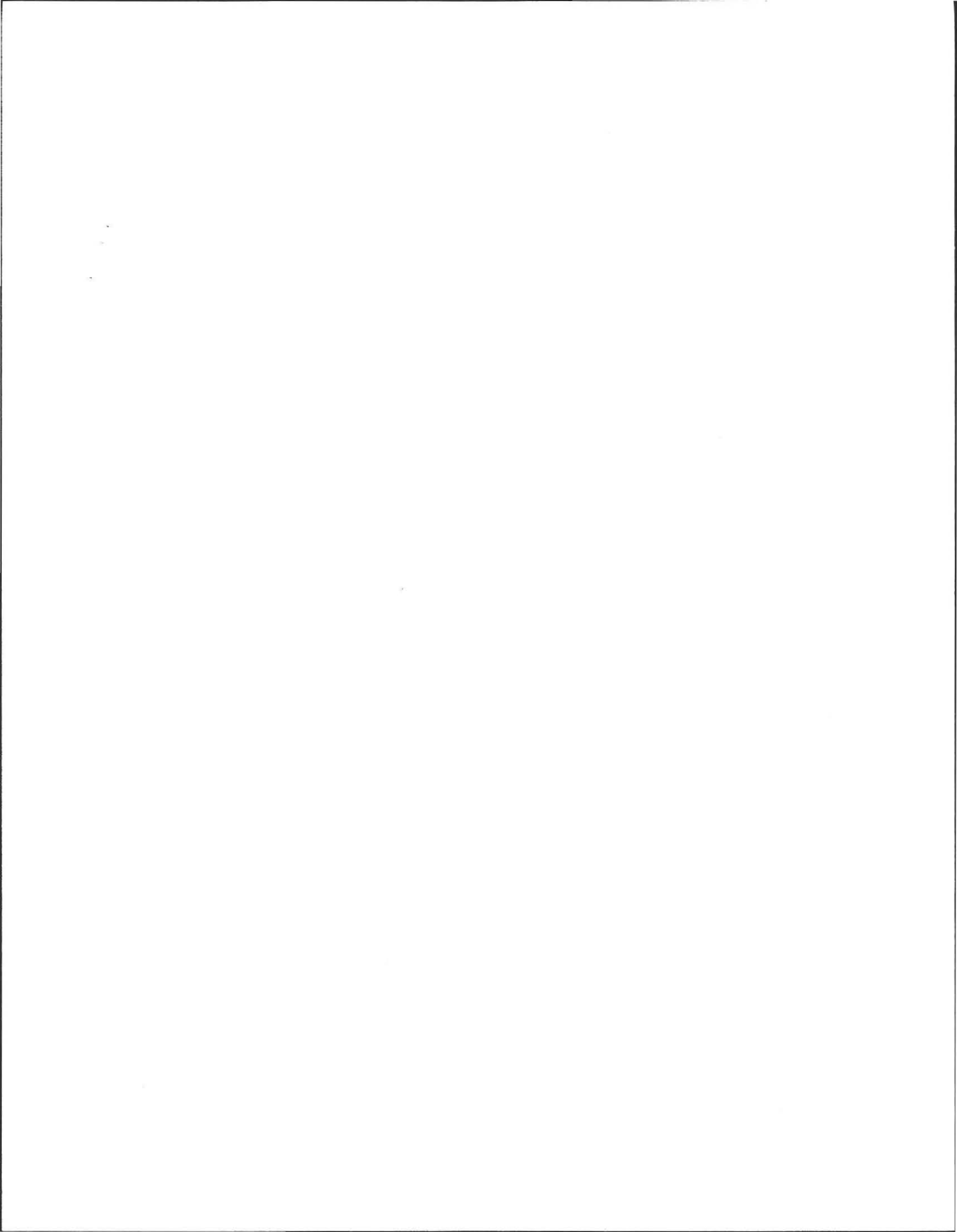
If not, what is the depth of naturally occurring pervious material? —

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 Alc Date 6/11/13



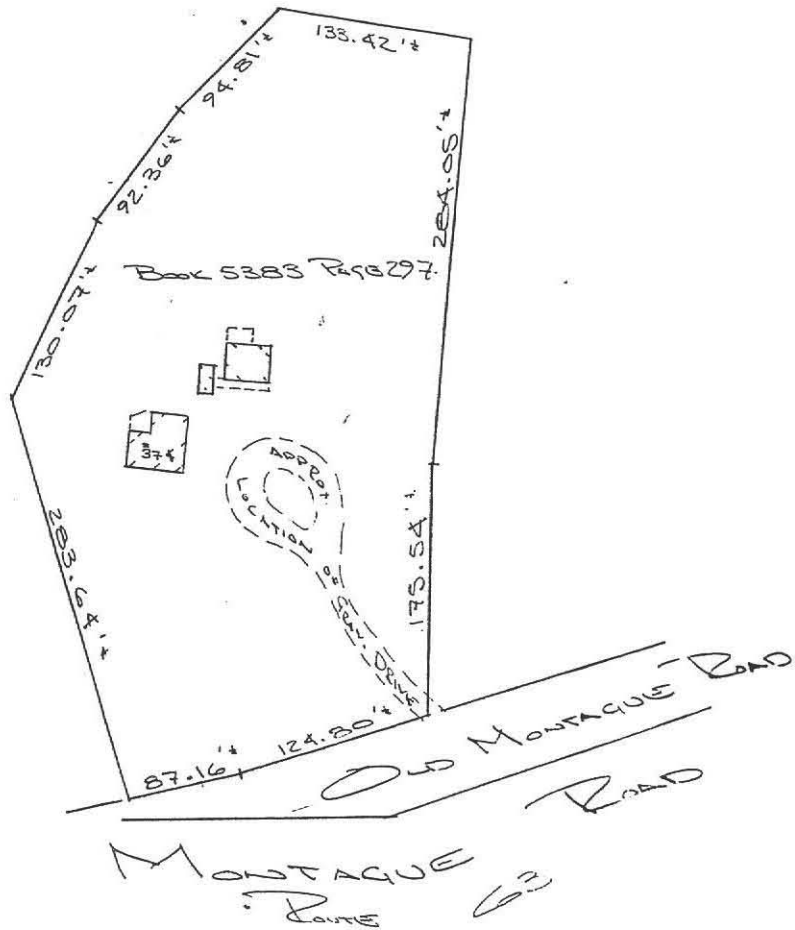


-NOTE-

THIS PLAT IS COMPILED FROM DEEDS, PLANS AND OTHER SOURCES AND IS NOT TO BE CONSTRUED AS AN ACCURATE SURVEY AND IS NOT TO BE RECORDED. BUILDING LOCATION ACCURACY IS NOT GUARANTEED



Notes:
- SUBJECT TO AND TOGETHER WITH EASEMENTS AND RIGHTS OF RECORD OF RECORD



TO: PEOPLES SAVINGS BANK & FIRST AMERICAN TITLE INSURANCE COMPANY

TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF I HEREBY REPORT THAT I HAVE EXAMINED THE PREMISES AND BASED ON EXISTING MONUMENTATION ALL VISIBLE EASEMENTS, ENCROACHMENTS AND BUILDINGS ARE LOCATED ON THE GROUND AS SHOWN AND THAT THE BUILDINGS ARE ENTIRELY WITHIN THE LOT LINES, EXCEPT AS NOTED. I FURTHER REPORT THAT THE PROPERTY IS NOT LOCATED WITHIN A FLOOD PRONE AREA AS SHOWN ON FEDERAL FLOOD INSURANCE MAPS FOR COMMUNITY # 250156

SURVEYOR: Randall E. Izer



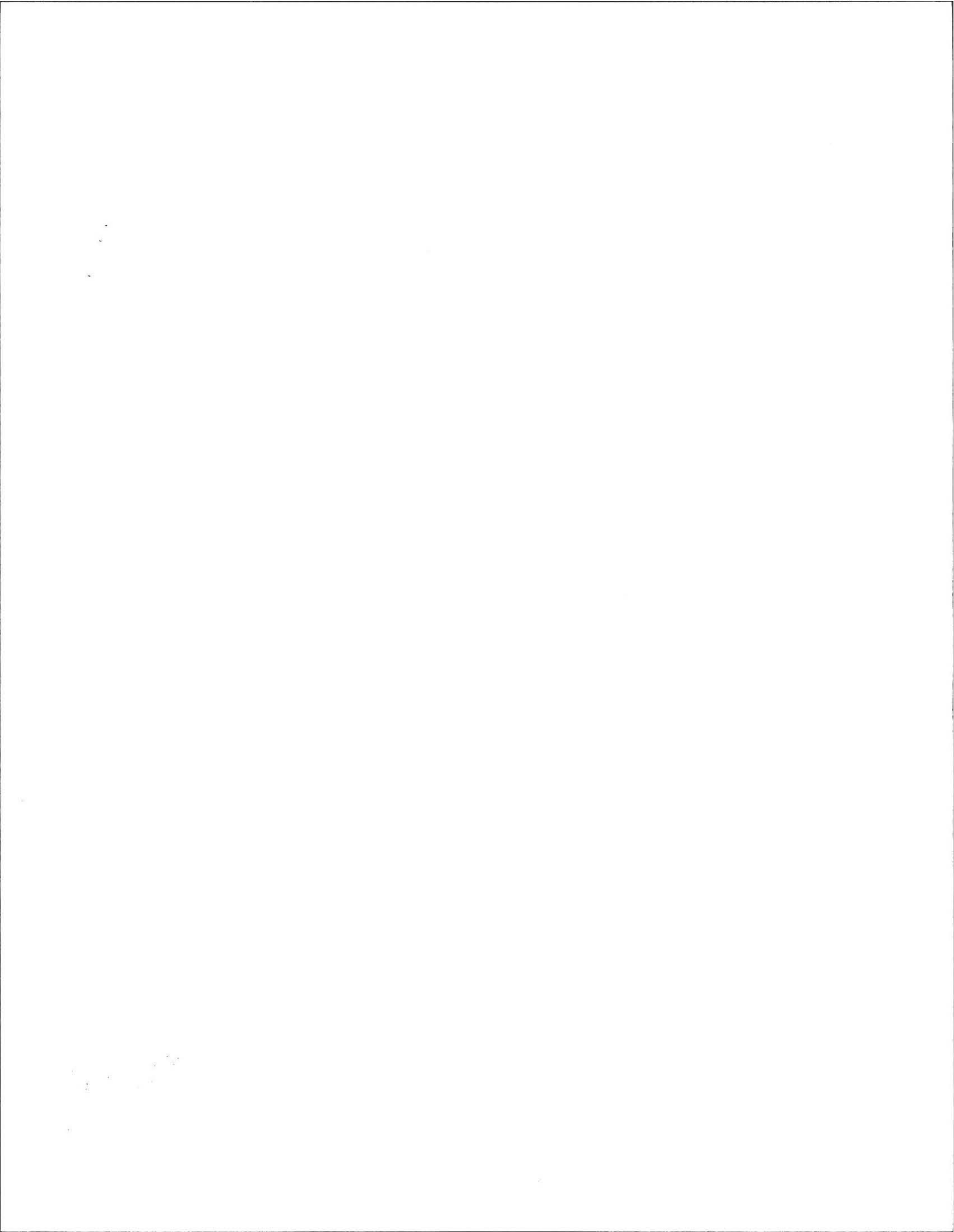
-NOTE- THIS PLAT FOR MORTGAGE LOAN PURPOSES ONLY AND DOES NOT CONSTITUTE A PROPERTY SURVEY

-MORTGAGE LOAN INSPECTION PLAT-

AMHERST, MASSACHUSETTS
PREPARED FOR
JANE A. SINAUER

SCALE: 1"=100' APRIL 25, 2003

HAROLD L. EATON AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL LAND SURVEYORS
235 RUSSELL STREET - HADLEY - MASSACHUSETTS

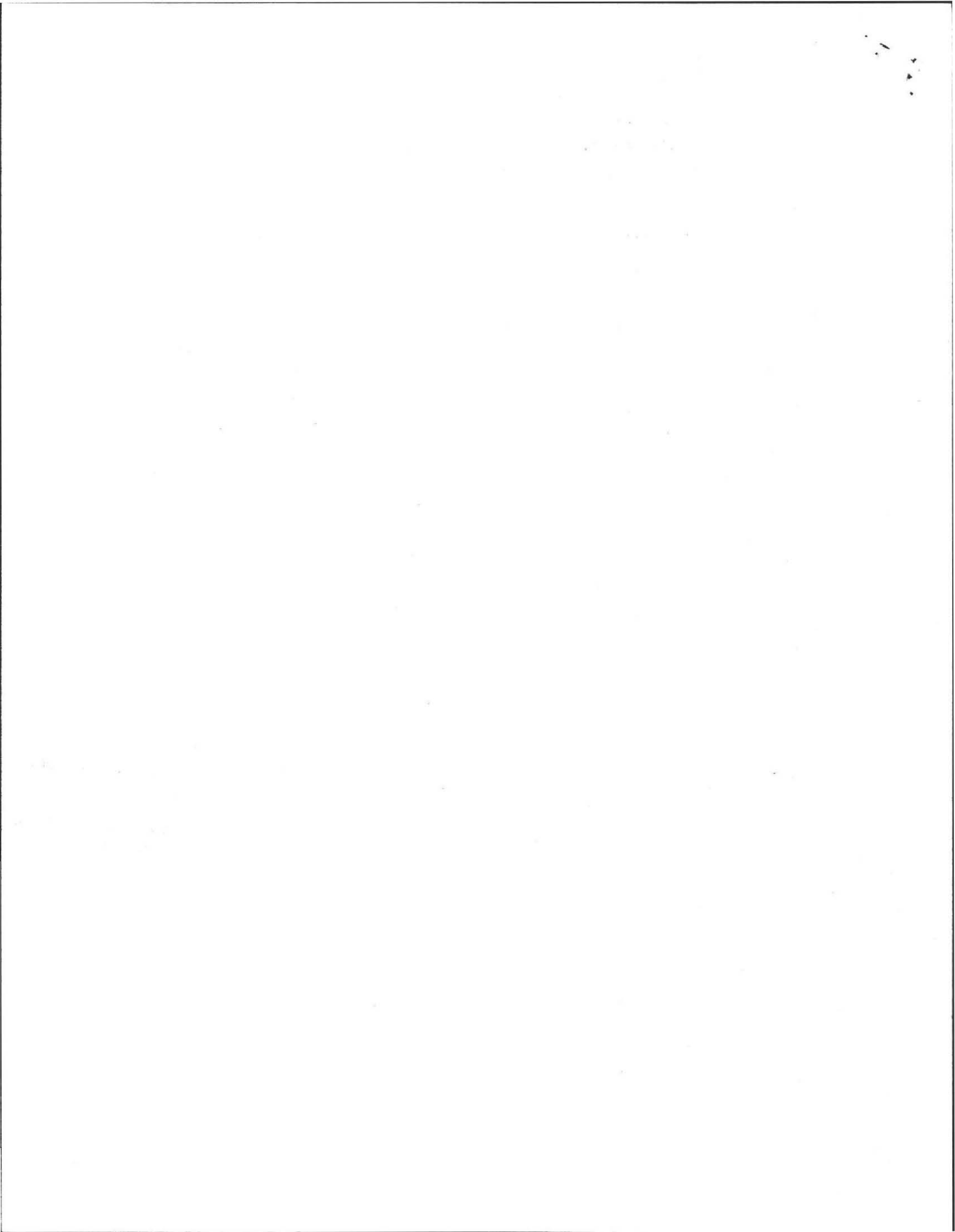


PROJECT NO.: 13-13
 CITY/TOWN: AMHERST
 APPLICANT: STEVE GROSS
 ADDRESS: 374 OLD MONTAGOE RD.
 DESIGN FLOW: 554 gpd
 REVIEWED BY: Edmund Smith DATE: 6/27/2013

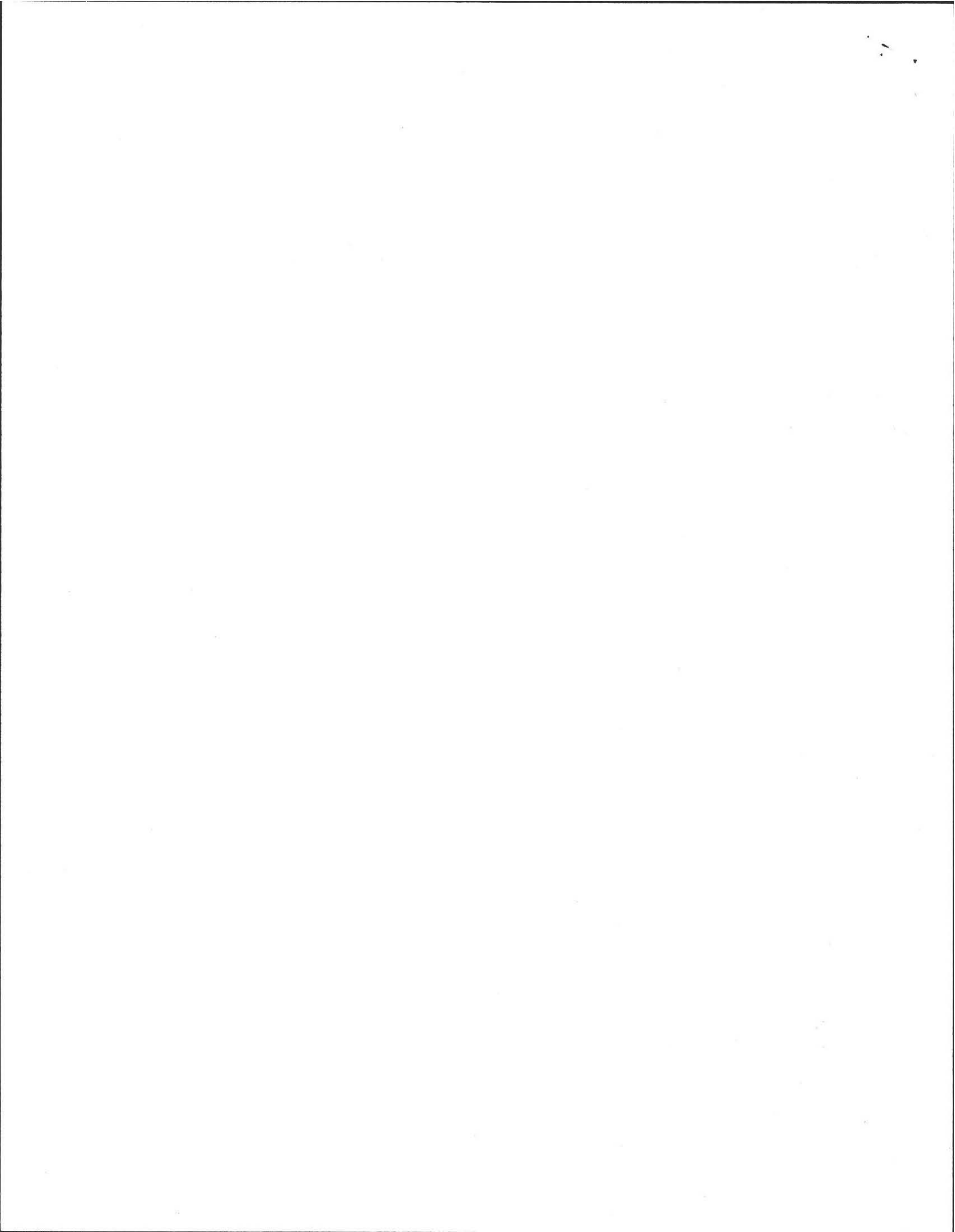
	N/A	OK	NO
GENERAL			
Legal boundaries denoted [310 CMR 15.220(4)(a)]		✓	
Street, Lot, tax parcel number and lot number noted on plan [310 CMR 15.220(4)(u)]		✓	
Locus Provided [310 CMR 15.220(4)(t)]		✓	
Plan proper scale? (1"=40' for plot plans, 1"= 20' or fewer for components) [310 CMR 15.220(4)]		✓	
Easements shown [310 CMR 15.220(4)(b)]		✓	
System located totally on lot served [310 CMR 15.405(1)(a) for upgrades]- if not, a variance is required [310 CMR 15.412 (4)]		✓	
Location of impervious surfaces (driveways, parking areas etc.) [310 CMR 15.220(4)(d)]		✓	
Location all buildings existing and proposed 310 CMR 15.220 (4)(c)]		✓	
Location and dimensions of system components and reserve areas. [310 CMR 15.220(4)(e)]		✓	
System Calculations [310 CMR 15.220(4)(f)]		✓	
daily flow		✓	
septic tank capacity (required and provided)		✓	
soil absorption system (required and provided)		✓	
whether system designed for garbage grinder		✓	
North arrow [310 CMR 15.220(4)(g)]			
Existing and proposed contours [310 CMR 15.220(4)(g)]		✓	
Location and log of deep observation holes (existing grade el. on each test) [310 CMR 15.220(4)(h)]		✓	
Names of soil evaluator and BOH representative [310 CMR 15.220(4)(h) and (i)]		✓	
Location and date of percolation tests (performed at proper elevation?) [310 CMR 15.220(4)(i)]		✓	
Percolation test results match loading rate? [310 CMR 15.242]		✓	
Certification statement by Soil Evaluator [310 CMR 15.220(4) (j)]		✓	
Observed and Adjusted groundwater (method for adjustment given or indicated) [310 CMR 15.103(3) and 310 CMR 15.220(4)(n)]		✓	

MAP 2C LOT 25

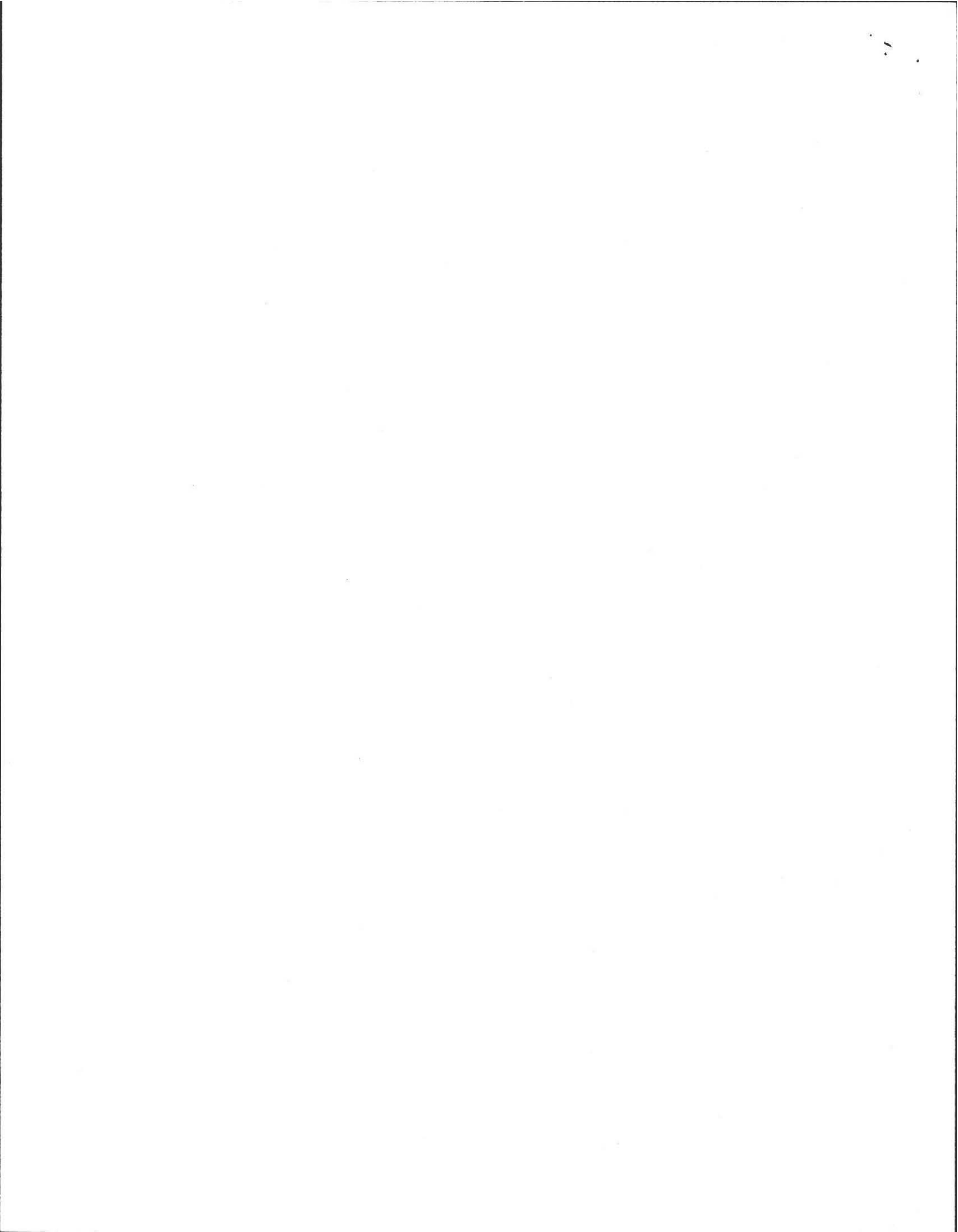
NOT FOR GRINDER
 MISSING
 CORRECTED
 (PER EMAIL 6/28/13
 FROM AEWELISS)



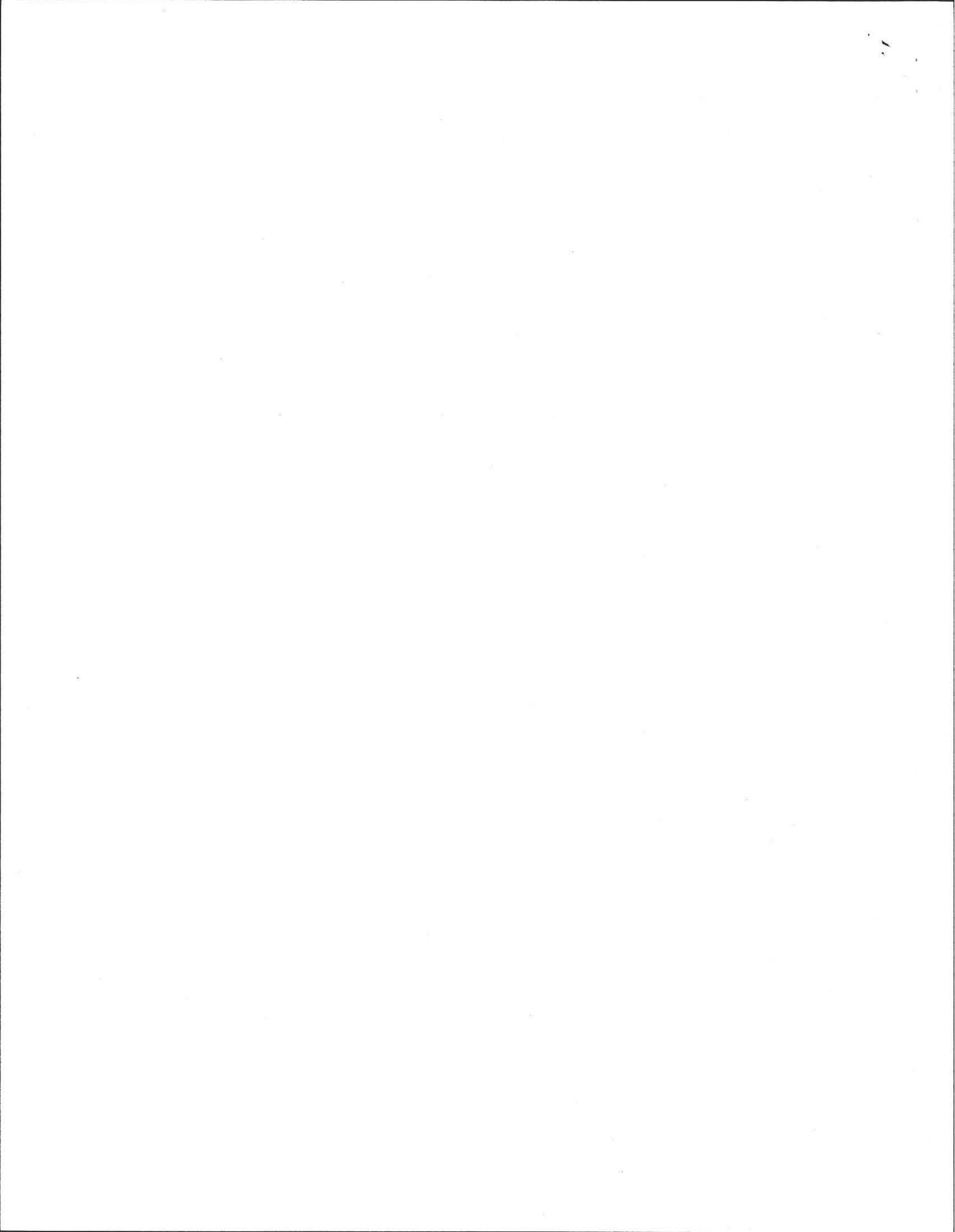
GENERAL cont.	N/A	OK	NO
Location of every water supply, public and private, [310 CMR 15.220(4)(k)]		✓	
within 400 feet of the proposed system location in the case of surface water supplies and gravel packed public water supply wells	✓		
within 250 feet of the proposed system location in the case of tubular public water supply wells	✓		
within 150 feet of the proposed system location in the case of private water supply wells		✓	
Location of all surface waters and wetlands located up to 100 ft. beyond setbacks listed in 310 CMR 15.211 and any catch basins located within 50 ft. [310 CMR 15.220(4)(l)]		✓	
Water lines and other subsurface utilities located [310 CMR 15.220(4)(m)] (if water line cross see 310 CMR 15.211(1)[1])		✓	
Profile of system showing invert elevations of all system components and the bottom of the SAS [310 CMR 15.220(4)(o)]		✓	
Stamp of designer [310 CMR 15.220(1) and 310 CMR 15.220(2)]		✓	
Stamp of Registered Land Surveyor (required if construction activities within 5 ft. of lot line) [310 CMR 15.220(3)]	✓		
Test Holes adequate (two in each of the primary and reserve unless trenches as permitted in 310 CMR 15.102(2) or as approved for an upgrade under LUA at 310 CMR 15.405(1)(k)]		✓	
Test hole adequate to demonstrate four feet of suitable material? [310 CMR 15.103(4)]		✓	
Test Holes adequate to confirm adequate groundwater separation? [310 CMR 15.103(3)]		✓	
Benchmark within 50-75' of system [310 CMR 15.220(4)(q)]		✓	
Materials specifications noted? [various sections of 310 CMR 15.000]		✓	
System components not > 36" deep (unless Local Upgrade Approval or LUA requested) [310 CMR 15.405(1)(b)]		✓	
All system components marked with magnetic tape 15.221(12)		✓	
SEPTIC TANK	N/A	OK	No
Size OK? [310 CMR 15.223(1)]		✓	
Inlet tee located ten inches below flow line [310 CMR 15.227(6)]		✓	
Outlet tee 14" or 14" + 5" per foot for increase ft depth [310 CMR 15.227(6)]		✓	
Outlet tee with gas baffle or approved filter [310 CMR 15.227(4)]		✓	
Note regarding installation on stable compacted base [310 CMR 15.228(1)]		✓	



Separation between inlet and outlet tees (no less than liquid depth) [310 CMR 15.227(2)]		✓	
Inlet/Outlet elevations at least 12" above high groundwater (except as described 310 CMR 15.227(5)) or permitted for upgrades under LUA [310 CMR 15.405(1)(k)]		✓	
Minimum cover 9" (Tanks buried more than 9" must have risers on all openings and on the d-box) [310 CMR 15.2228(1) and 310 CMR 15.232(3)(f)]		✓	
Three access covers (inlet and outlet must be 20" or greater) - middle access at least 8" (by 7/07) [310 CMR 15.228(2)]		✓	
Access to within 6" of grade - one port for systems <1000gpd, two for systems >1000 gpd [310 CMR 15.228(2)]		✓	
All at-grade covers secured to unauthorized access? [310 CMR 15.228(2)]		✓	
> 10 ft from building foundation [310 CMR 15.211(1)]		✓	
Buoyancy calculation Required/Done [310 CMR 15.221(8)]	✓		
H-20 Where appropriate? [310 CMR 15.226(3)]	✓		
Setbacks from resources [310 CMR 15.211]		✓	
Multi-Compartment Tanks			
Required when other than single-family dwelling or flow >1000 gpd [310 CMR 15.223(1)(b)]	✓		
First compartment 200% daily flow; Second compartment 100% daily flow [310 CMR 15.224(2) and (3)]	✓		
"U" pipe through or over baffle, outlet of each compartment with gas baffle or approved filter [310 CMR 15.224(4)]	✓		
BUILDING SEWER AND OTHER PIPING			
	N/A	OK	No
Located at least ten feet from any water line? [310 CMR 15.222(2)]		✓	
Disposal piping at least 18" below water line (when water and sewer cross, see 310 CMR 15.211(1)[1])	✓		
Cleanouts required/provided? [310 CMR 15.222(8)]	✓		
Thrust blocks specified in force mains? 310 CMR 15.221(6)(c)]	✓		
Slope of sewer line not less than 0.01 (1/8"/ft) 0.02 preferable [310 CMR 15.222(6)]		✓	
Proper pitch on all runs? (.005 within gravity-distributed trenches and beds) [310 CMR 15.251(9) and 310 CMR 15.252(2)(c)]		✓	
Siphon problem/ (leachfield below pump chamber)		✓	
Endcaps or vent manifold specified?		✓	
Size and orientation of discharge holes specified? (not smaller than 3/8" not larger than 5/8") [310 CMR 15.251(8) and 310 CMR 15.252(2)(h)]		✓	
Materials specified (310 CMR 15.251(5) specifies various pipe types allowed)		✓	
DISTRIBUTION BOX			

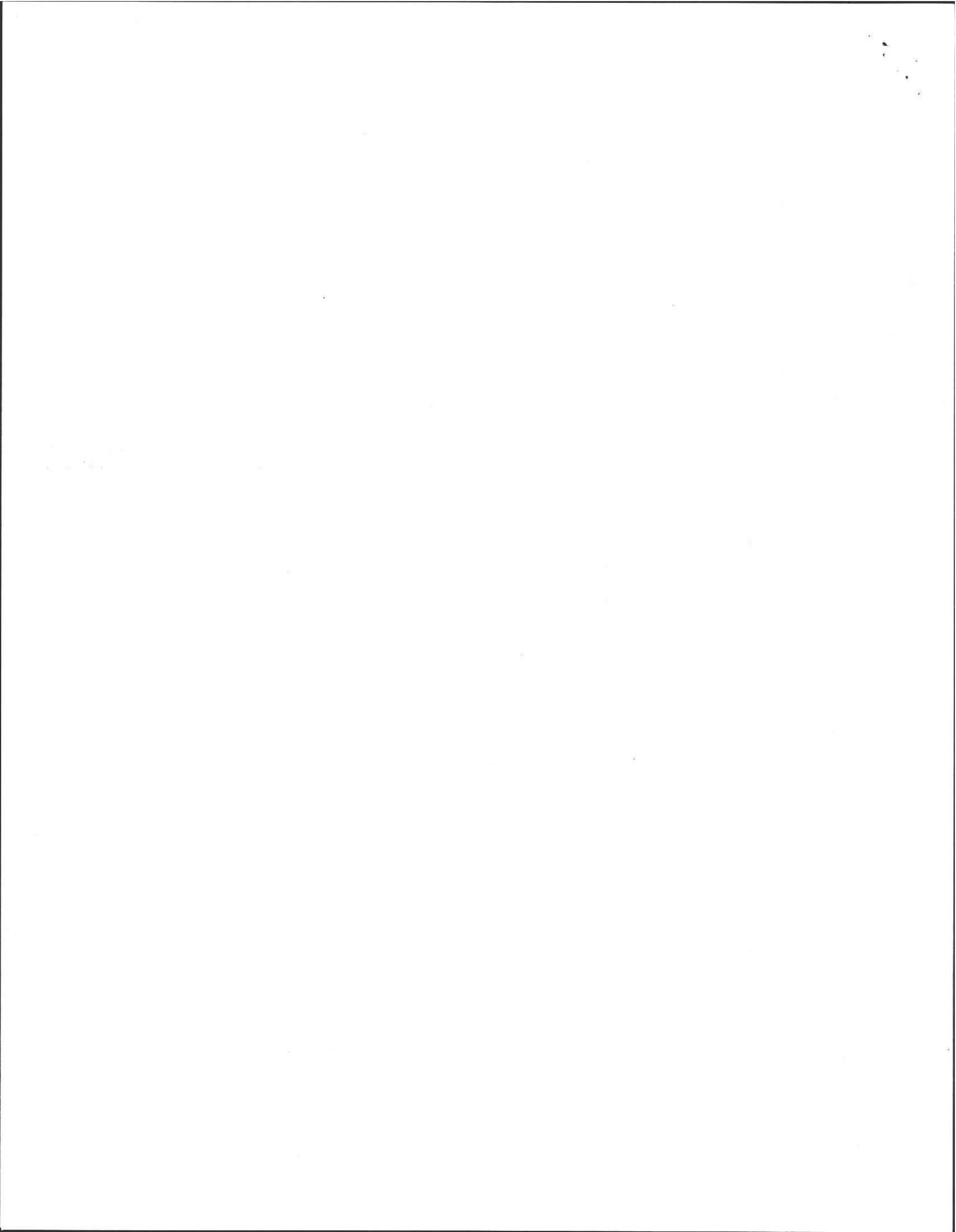


Stable compacted base [310 CMR 15.221(2) and 310 CMR 15.232(2)(a)]		✓		
Splash plate or baffle tee required on inlet/ provided? (when pressure sewer to d-box or steep pitch of gravity sewer) [310 CMR 15.323(3)(a)]	✓			
Riser if deeper than 9" [310 CMR 15.232(3)(f)]		✓		
Inside minimum dimension 12" [310 CMR 15.232(2)(b)]		✓		
Minimum sump 6" [310 CMR 15.232(3)(e)]		✓		
Watertight cover if <2000gpd; waterproof manhole if >2000gpd [310 CMR 15.232(3)(d)]		✓		
PUMP CHAMBERS				
Capacity (emergency storage above working=design flow)? [310 CMR 231(2)]	✓			
Proper setbacks [310 CMR 15.211 (same as septic tanks)]				
Watertight 20-in minium access manhole at least 20" MUST BE TO GRADE [310 CMR 15.231(5)]				
Service components accessible (not too deep with piping, disconnects accessible)				
Alarm floats - alarm on circuit separate from pumps specified?				
Exceeds two units must have two pumps operating in lead-lag mode. [310 CMR 15.231(6) and (8)]				
Stable Compacted Base [310 CMR 15.221(2)]				
Buoyancy calculations needed ? Provided? [310 CMR 15.221 (8)]				
Dosing chamber capacity (required and provided), pump curves and specifications, number of dosing cycles and depth per cycle? [310 CMR 15.220(4)(r)]				
Effluent tee filter provided? [310 CMR 15.231(10)]				
SOIL ABSORPTION SYSTEMS (SAS) GENERAL	N/A	OK	No	
Calculations correct?		✓		
4 feet of naturally occurring material demonstrated? [310 CMR 15.240(1)]		✓		
Required separation to groundwater? [310 CMR 15.212)]		✓		
Aggregate specified as double washed [310 CMR 15.247(2)]		✓		
System Venting required/provided? (system under driveway or >36" deep) [310 CMR 15.241]	✓			
Inspection ports specified and within 3" final grade? [310 CMR 15.240(13)]		✓		
Breakout requirements met? (No violation of breakout elevation within 15 ft of SAS unless barrier) [310 CMR 15.211(1)[4] and Guidance Document]		✓		
GALLERIES,PITS,CHAMBERS 310 CMR 15.253				
Chambers and Gal. in trench configuration supplied with inlet every 20 ft. [310 CMR 15.253(6)]	✓			
Each structure with one inspection manhole (if >2000 gpd must be to grade) [310 CMR 15.253(2)]				

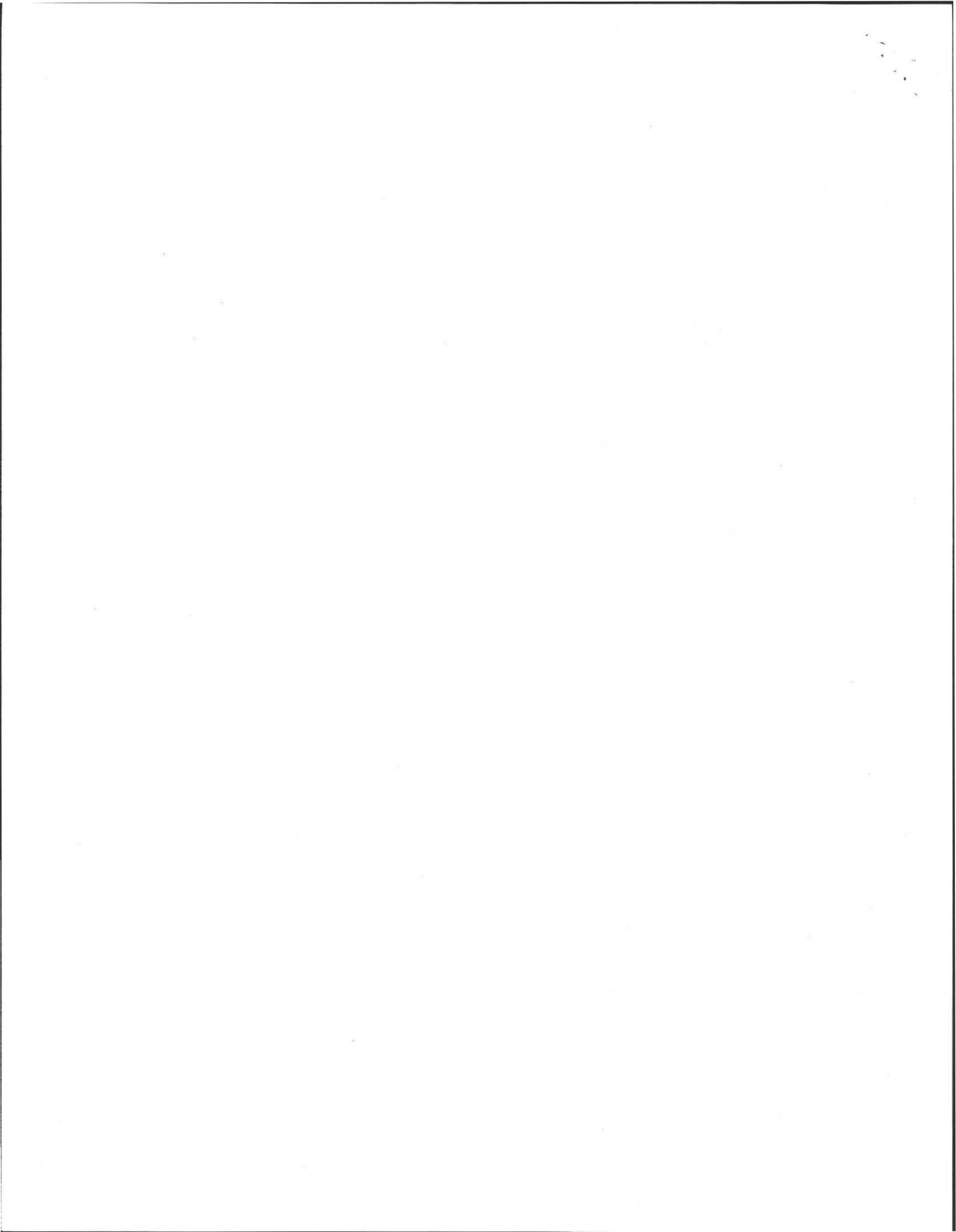


Aggregate 1' minimum- 4' maximum. [310 CMR 15.253(1)(b)]	✓		
2' sidewall credit maximum [310 CMR 15.253(1)(a)]	✓		
In bed configuration, inlet every 40 sq. ft. [310 CMR 15.253(6)]	✓		
TRENCHES 310 CMR 15.251			
Width 2' minimum 3' maximum [310 CMR 15.251(1)(b)]	✓		
100 feet - maximum length [310 CMR 15.251(1)(a)]	✓		
Minimum separation 2x effective depth or width whichever greater (3x if reserve between trenches) [310 CMR 251(1)(d)]	✓		
Situated along contours [310 CMR 15.251(2)]	✓		
Breakout OK? [310 CMR 15.211(1)[4] and Guidance Document]	✓		
BED SAS (Maximum size of bed or field 5000 gpd)			
minimum 2 distribution lines [310 CMR 15.252(2)(a)]	✓	✓	
Maximum separation between lines 6' [310 CM R15.252(2)(d)]		✓	
Maximum separation between lines and outside of bed 4' [310 CMR 15.252(2)(e)]			✗
Aggregate depth below discharge pipes 6" minimum, 12" maximum. [310 CMR 15.252(2)(g)]		✓	
Separation between beds 10' minimum. [310 CMR 15.252(2)(f)]	✓		
Bottom area used in calculations only [310 CMR 15.252(2)(i)]		✓	
DID THE PLAN INVOLVE			
	N/A	OK	No
<i>Pressure Dosed System ? Provided pump and piping calculations as required [310 CMR 15.220(4)(r)]</i>	✓		
<i>Groundwater Separation Per 310 CMR 15.240(12) does the groundwater separation take into account mounding.</i>	✓		
Pressure dosing required on all systems >2000gpd or alternative systems under remedial approval [310 CMR 15.254(2) and I/A Remedial Use Approvals]	✓		
If used in gravelless system - make sure jet is directed as not to scour soil interface [Guidance Document]	✓		
Inspections once per year (systems< 2000 gpd) or quarterly (>2000gpd) good to note on plan [310 CMR 15.254(2)(d)]	✓		
<i>Construction in fill - Did the plan specify that the fill shall meet the specification of 310 CMR 15.255(3)?</i>	✓		
Impervious barrier and/or retaining wall ? [Guidance Document]	✓		
Impervious barrier installation must be supervised by designer [310 CMR 15.255(2)(b)]	✓		
Retaining wall must be designed by Registered Professional Engineer [310 CMR 15.255(2)(a)]	✓		
Side slope not exceed 3:1 ? [310 CMR 15.255(2)]		✓	
Breakout requirements met? [310 CMR 15.252(2) and Guidance Document]		✓	
At least 5 ft. from impervious barrier to edge of SAS (10 ft. recommended) [310 CMR 15.255 (2)(e)]	✓		

CORRECTED
(PER EMAIL 6/28/13
FROM AEWDEISS)



Gravelless System [I/A Approval Letters]			
Check DEP Approval letters for credits and design conditions	✓		
If used with pressure dosing do not allow pressure discharge to scour soil interface	✓		
Alternative Septic System [I/A Approval Letters]			
Was DEP Approval Letter provided and/or have you reviewed the letter for conditions?	✓		
Is the technology being properly applied and does it meet all DEP Approval Conditions?			
Is there a note on the plan regarding the requirement for perpetual maintenance agreement?			
Any alarms involved on separate circuits			
Did the applicant submit an operation and maintenance manual?			
Has applicant submitted a copy of a maintenance agreement?			
VariANCES			
Are the variances listed on the plan ? [310 CMR 15.220 (4) (p)]	✓		
RLS Stamp necessary on plan if a component is within five feet of property line [310 CMR 15.412(4)]	✓		
New construction or increased flow proposed - [Refer to 310 CMR 15.414]	✓		
Nitrogen Sensitive Areas			
	N/A	OK	No
Is the system in a Designated Nitrogen Sensitive Area (Zone II for a public supply well)? [310 CMR 15.214, 310 CMR 15.215 and 310 CMR 15.216 - also refer to Policy regarding upgrades of such existing systems]	✓		
Is the system proposed on the same lot as served by private well ? [310 CMR 15.214(2)]			
Are the nitrogen loads proposed in compliance? [310 CMR 15.216(1)]			
Miscellaneous			
Pumping to septic tank ? [310 CMR 15.229]			✓
Shared System [310 CMR 15.290]			✓



No. _____

FEE _____

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 <u>374 Old Montg</u>	Owner's Name <u>Steve Gross</u>
Map/Parcel# <u>2C/25</u>	Address <u>374 Old Montague Rd.</u>
Lot# <u>#25</u>	Telephone# <u>549-0268</u>
Installer's Name <u>Karl's Site Work</u>	Designer's Name <u>Alane Weiss, RS</u>
Address <u>Hadley, MA.</u>	Address <u>Bolton Town</u>
Telephone# <u>549-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building Residence Lot Size 2.64 +/- sq. ft.
 Dwelling - No. of Bedrooms 4.5 Garbage grinder No
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 440+110 Design flow provided 551 gpd
 Plan: Date 6/24/13 Number of sheets 1 Revision Date _____

Title Septic System Repair Plan.
 Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator Alane Weiss E. Smith Date of Evaluation 6/11/13

DESCRIPTION OF REPAIRS OR ALTERATIONS Flow Leach Area (Tank as needed)

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 Carol Ann Steve Gross Date 6/26/13

Inspections _____

No. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, 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. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

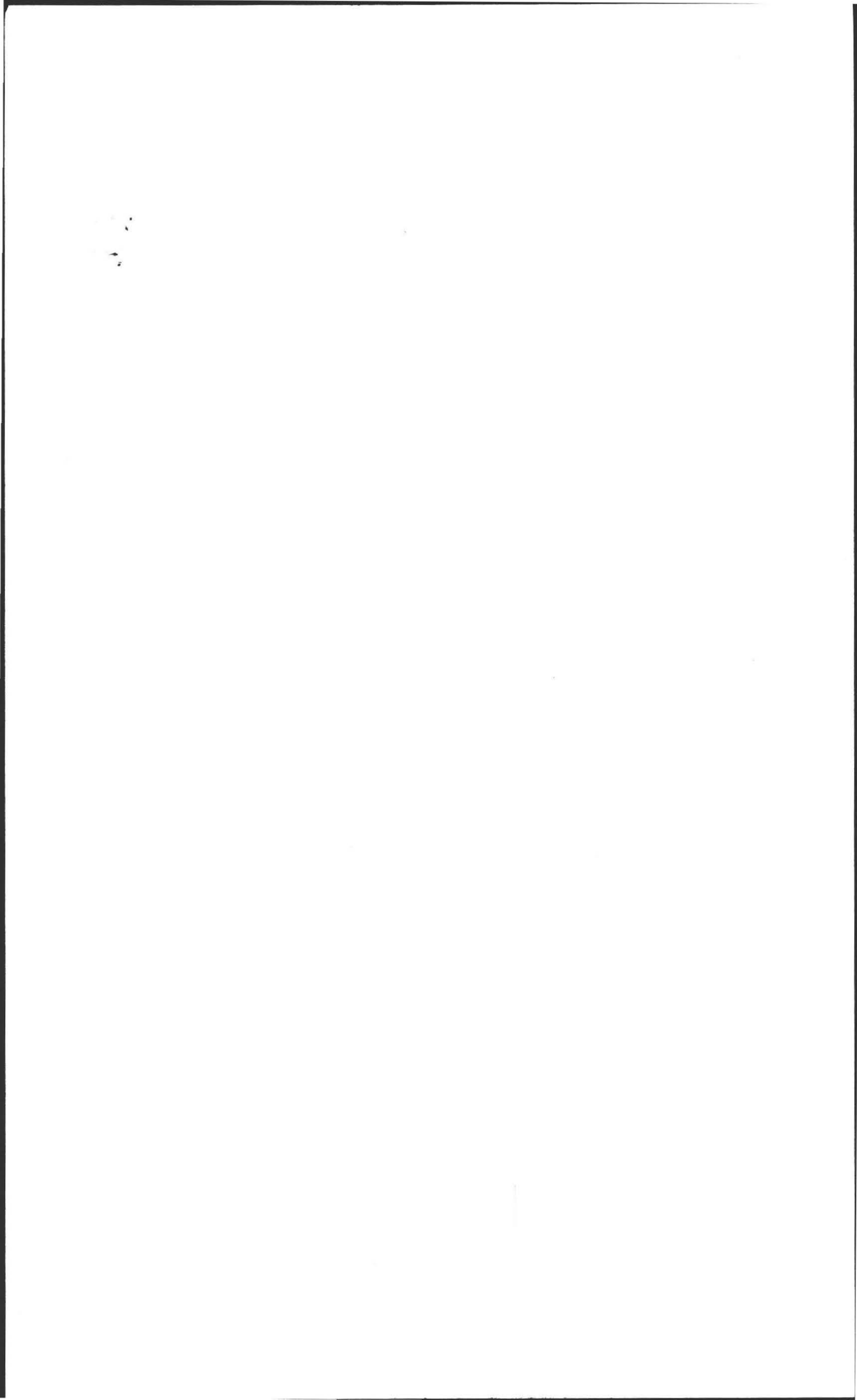
Board of Health, _____, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at _____ as described in the application for

Disposal System Construction Permit No. _____, dated _____.

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





ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and
- Septic Designs
- Title 5 Inspections

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

Date: 6/11/13

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

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

Date: 6/11/13

Location Address or Lot # <u>374 Old Montague Rd</u>	Owner's Name, Address, and Telephone # <u>Steve and Carol Gross</u> <u>374 Old Montague Road</u> <u>Amherst, MA 01002</u> <u>413-549-0268</u> <u>413-219-2618 (mobile)</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. 374 Old Montague Rd.

On-site Review

Deep Hole Number 1 → 2 Date: 6/11/13 Time: 10:00 Weather Shower

Location (identify on site plan) _____

Land Use Vegetation Slope (%) 2 Surface Stones Few

Vegetation Mixed Deciduous

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 50+ feet

Drinking Water Well 100+ feet

Other _____

Town Well

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	Ap	FsC	10YR 3/3		F. Sandy, friable
6"-24"	Bw	LS	10YR 5/6		F. Sandy
24" → 106"	C _i	fs	2.5Y 5/3	80" 7.5YR 6/8	F. Sand to Med Sand.
0-8"	Ap	FsC	10YR 3/3		↓ F. Sand to C. Sand.
8-26"	Bw	LS	10YR 5/6		
26"-106"	C _i	fs/ls	2.5Y 5/3	90" 7.5YR 6/8	

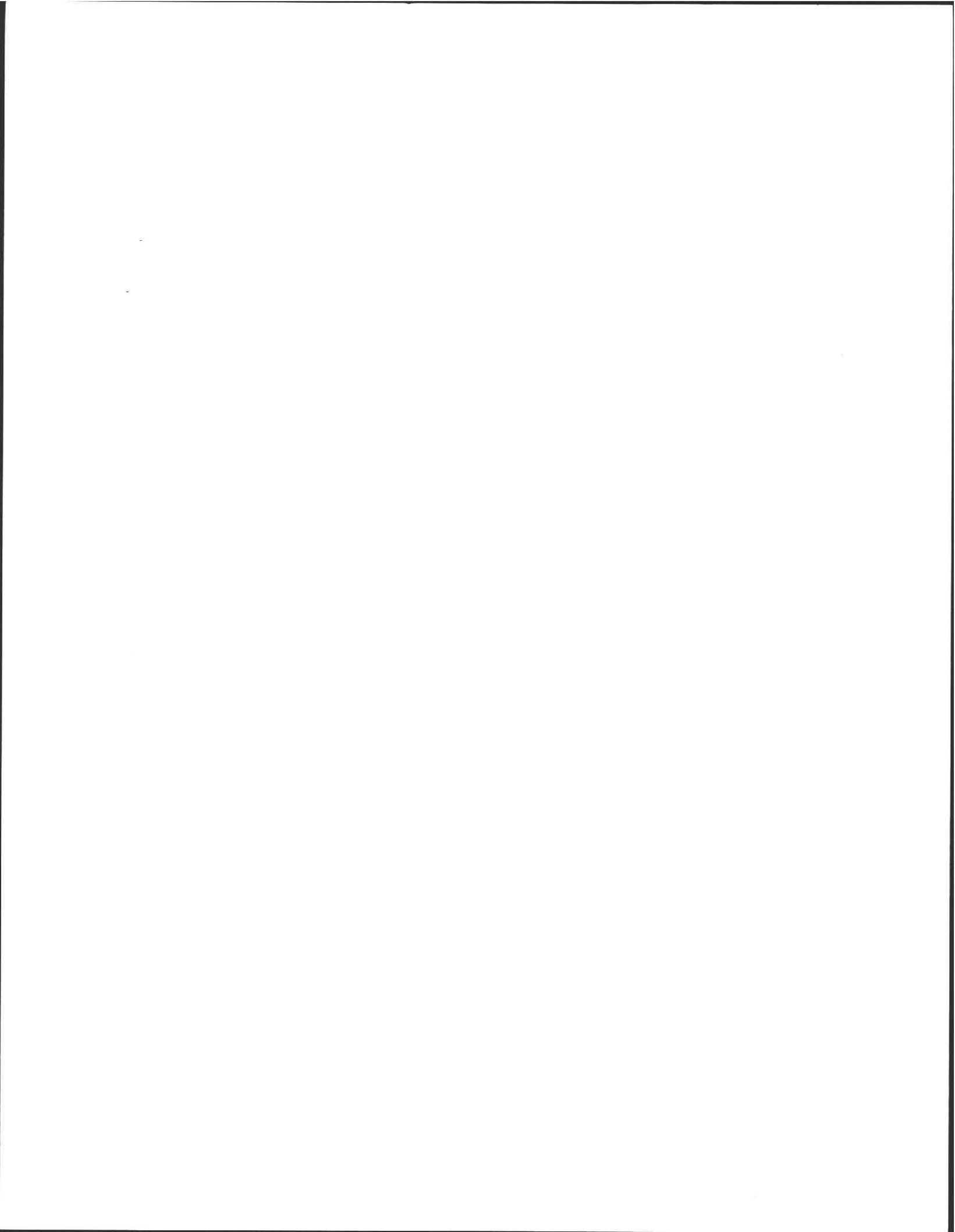
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 106"

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

Estimated Seasonal High Ground Water: 80"

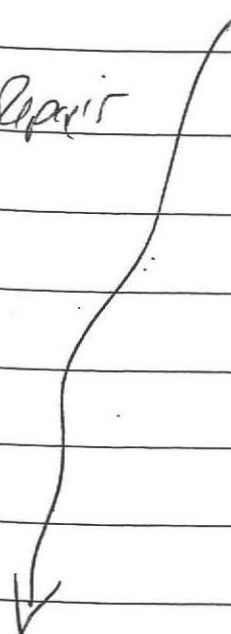




Location Address or Lot No. 374 old Montague RD.

COMMONWEALTH OF MASSACHUSETTS

Ambost, Massachusetts

Percolation Test*		
Date:	<u>6/11/13</u>	Time: <u>10:00</u>
Observation Hole #	<u>P1</u>	
Depth of Perc	<u>40"</u>	<u>Repair</u> 
Start Pre-soak	<u>10:14</u>	
End Pre-soak	<u>10:29</u>	
Time at 12"	<u>10:29</u>	
Time at 9"	<u>10:31</u>	
Time at 6"	<u>2:37</u>	
Time (9"-6")	<u>22</u>	
Rate Min./Inch	<u>47</u>	

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

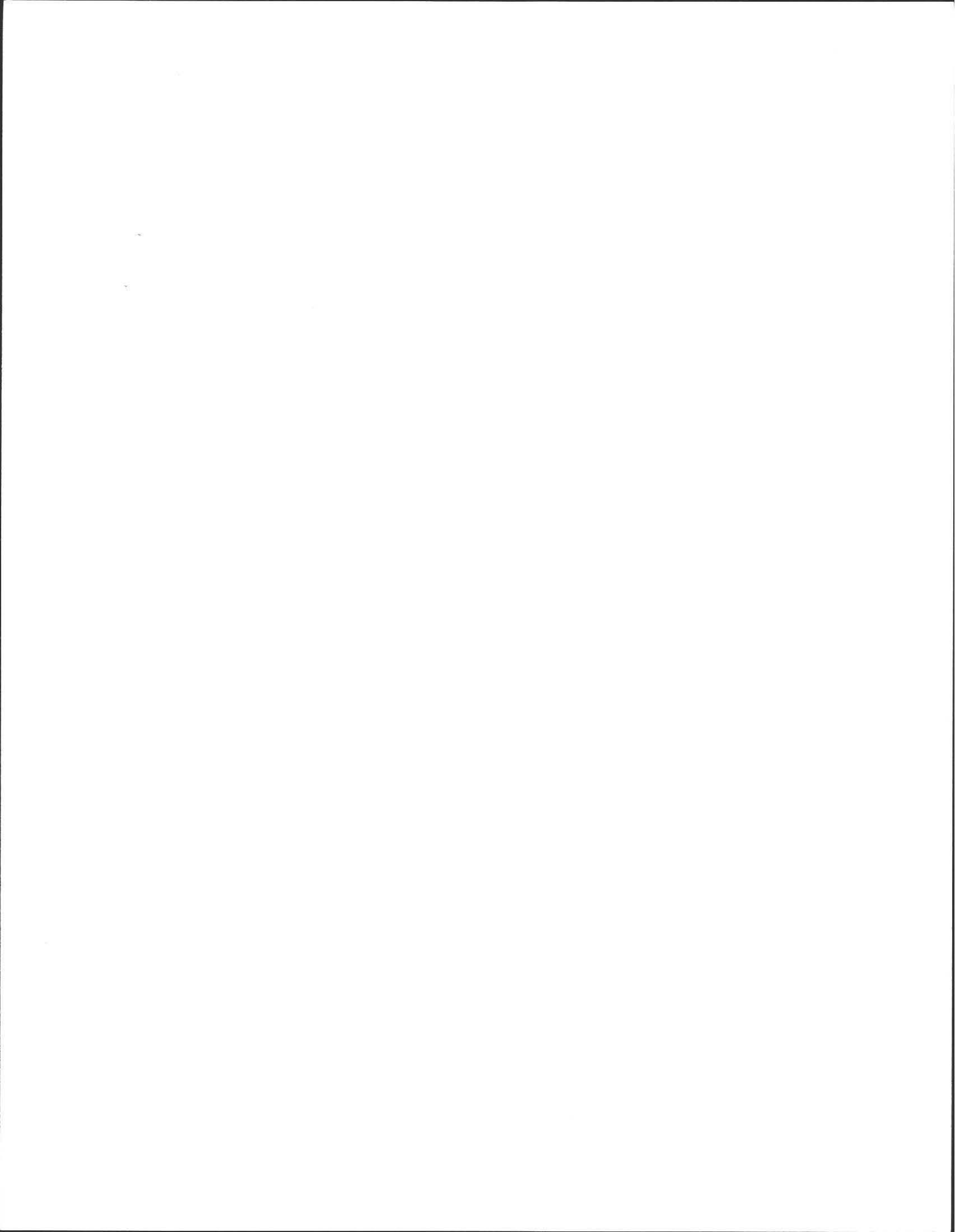
Site Passed Site Failed

Performed By: Alan Weiss RS

Witnessed By: Ed Smith

Comments:





Location Address or Lot No. 374 old Montague 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 80-90" 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

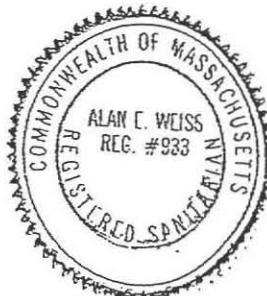
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

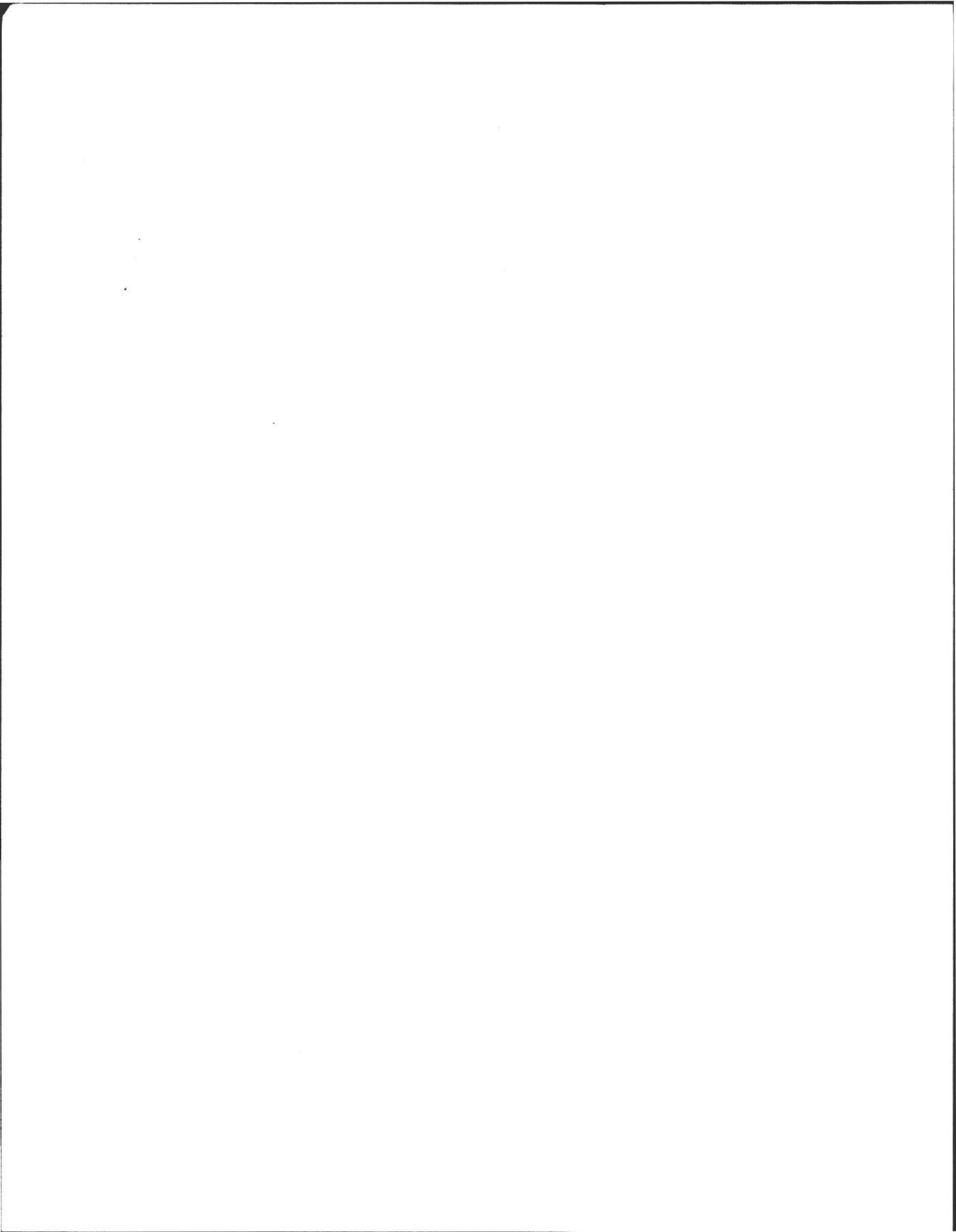
If not, what is the depth of naturally occurring pervious material? —

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 *Alc* Date 6/11/13



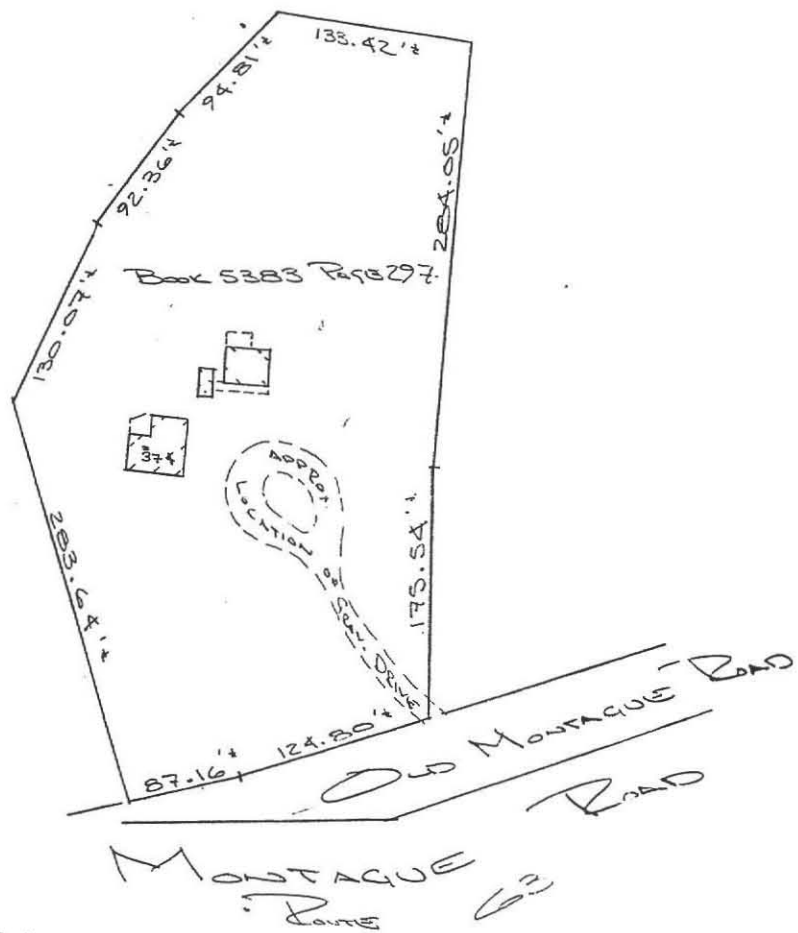


-NOTE-

THIS PLAT IS COMPILED FROM DEEDS, PLANS AND OTHER SOURCES AND IS NOT TO BE CONSTRUED AS AN ACCURATE SURVEY AND IS NOT TO BE RECORDED. BUILDING LOCATION ACCURACY IS NOT GUARANTEED



Note:
- SUBJECT TO AND TOGETHER WITH EASEMENTS AND RIGHTS OF WAYS OF RECORD



TO: PEOPLES SAVINGS BANK & FIRST AMERICAN TITLE INSURANCE COMPANY

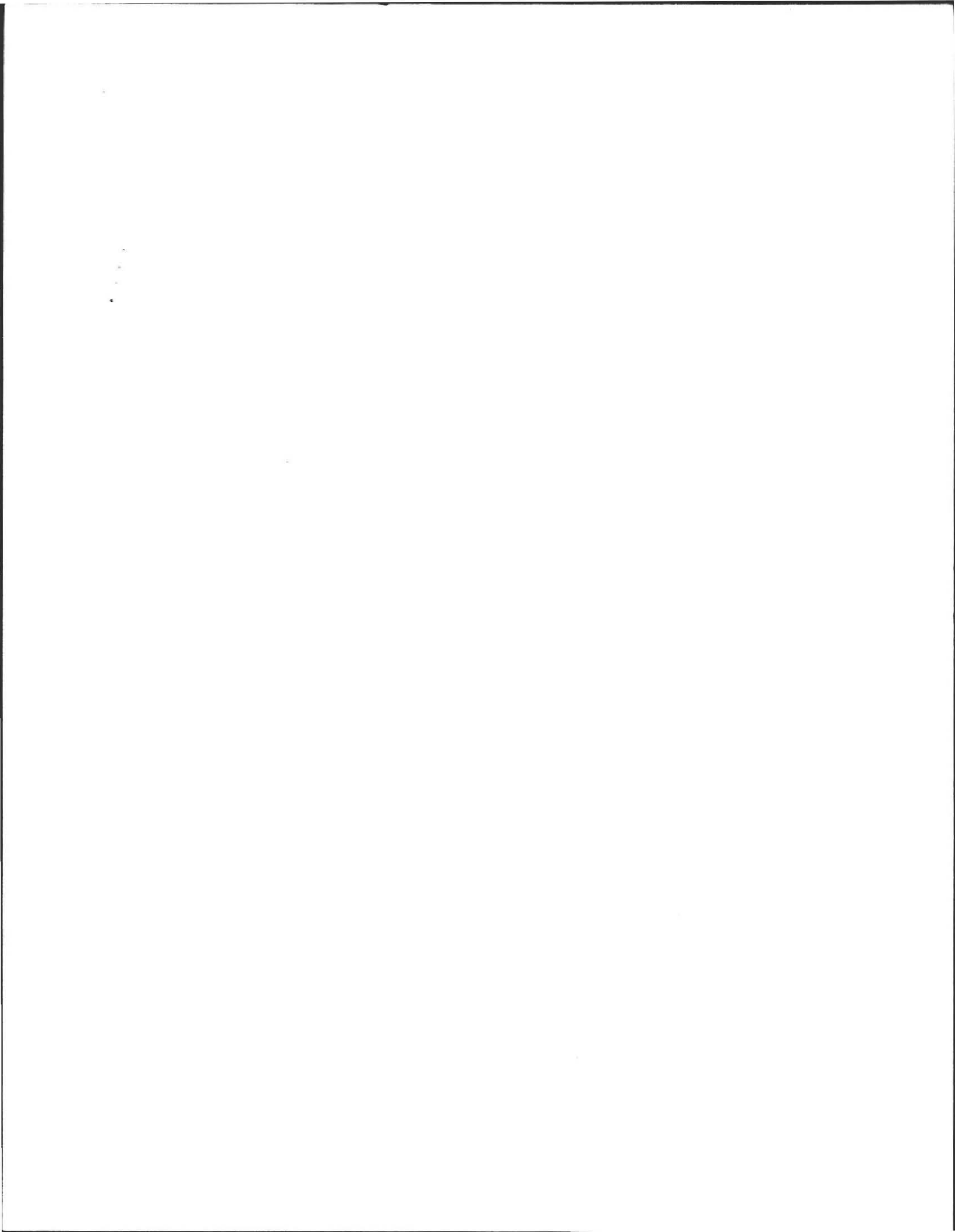
TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF I HEREBY REPORT THAT I HAVE EXAMINED THE PREMISES AND BASED ON EXISTING MONUMENTATION ALL VISIBLE EASEMENTS, ENCROACHMENTS AND BUILDINGS ARE LOCATED ON THE GROUND AS SHOWN AND THAT THE BUILDINGS ARE ENTIRELY WITHIN THE LOT LINES, EXCEPT AS NOTED. I FURTHER REPORT THAT THE PROPERTY IS NOT LOCATED WITHIN A FLOOD PRONE AREA AS SHOWN ON FEDERAL FLOOD INSURANCE MAPS FOR COMMUNITY # 250156

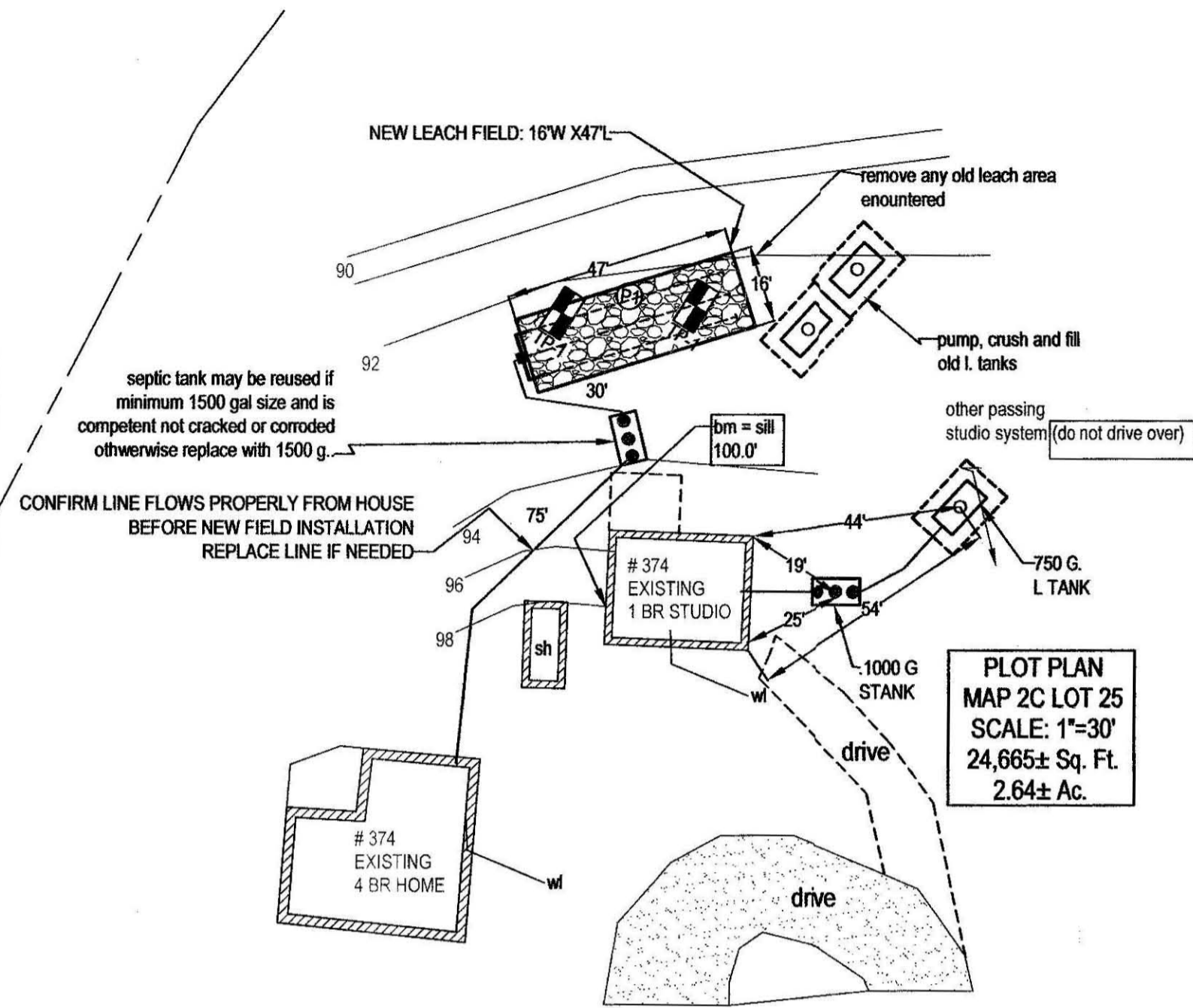
SURVEYOR: Randall E. Izer



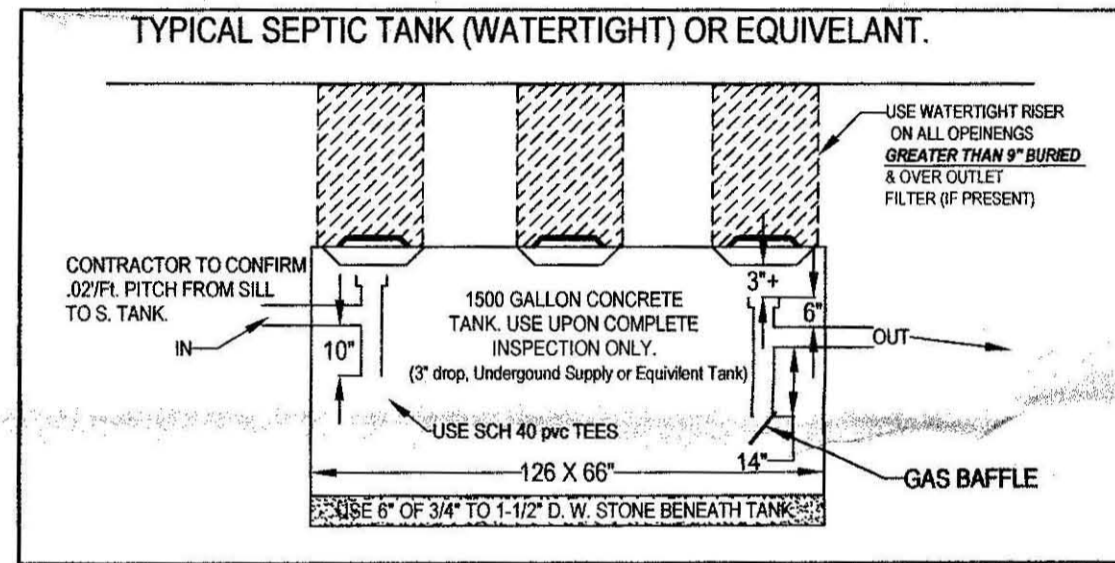
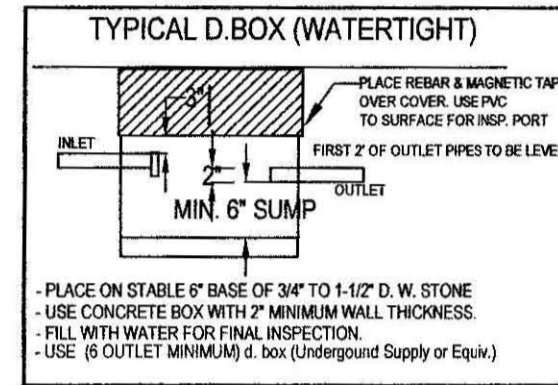
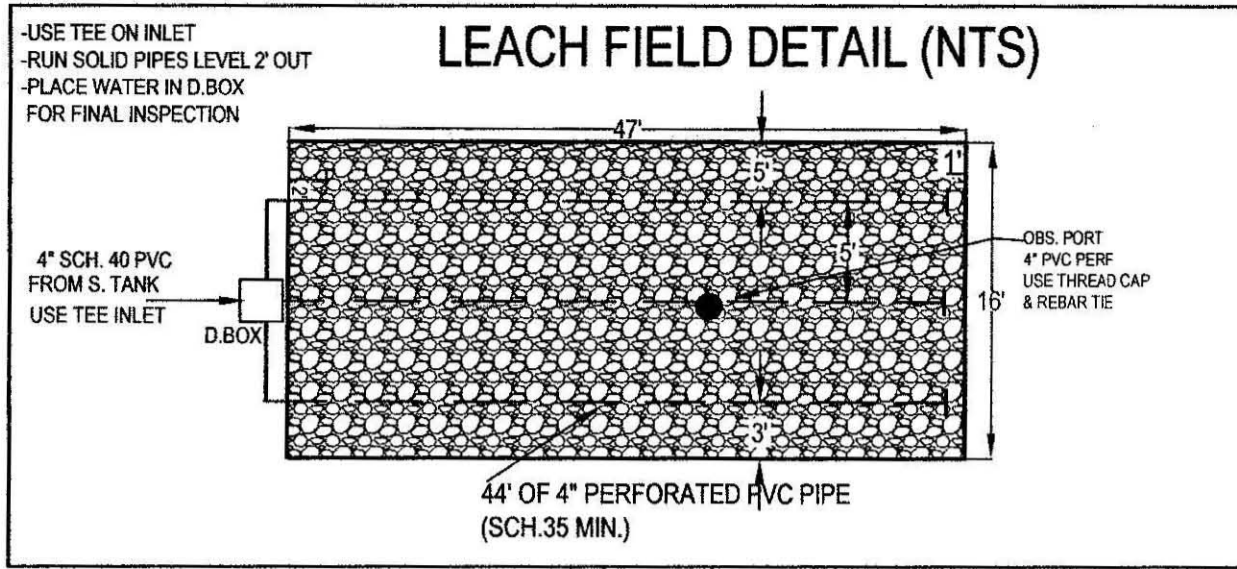
-NOTE-
THIS PLAT FOR MORTGAGE LOAN PURPOSES ONLY AND DOES NOT CONSTITUTE A PROPERTY SURVEY

-MORTGAGE LOAN INSPECTION PLAT-
AMHERST, MASSACHUSETTS
PREPARED FOR
JANE A. SINAUER
SCALE: 1"=100' APRIL 25, 2003
HAROLD L. EATON AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL LAND SURVEYORS
235 RUSSELL STREET - HADLEY - MASSACHUSETTS

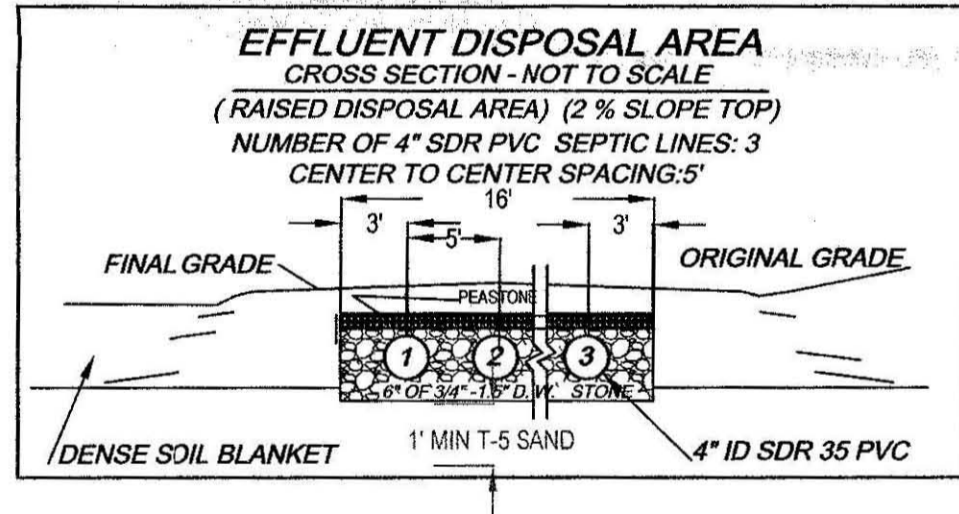




NOT AN ACTUAL SURVEY!
LINES DRAWN FOR SEPTIC
LOCATION PURPOSES ONLY!



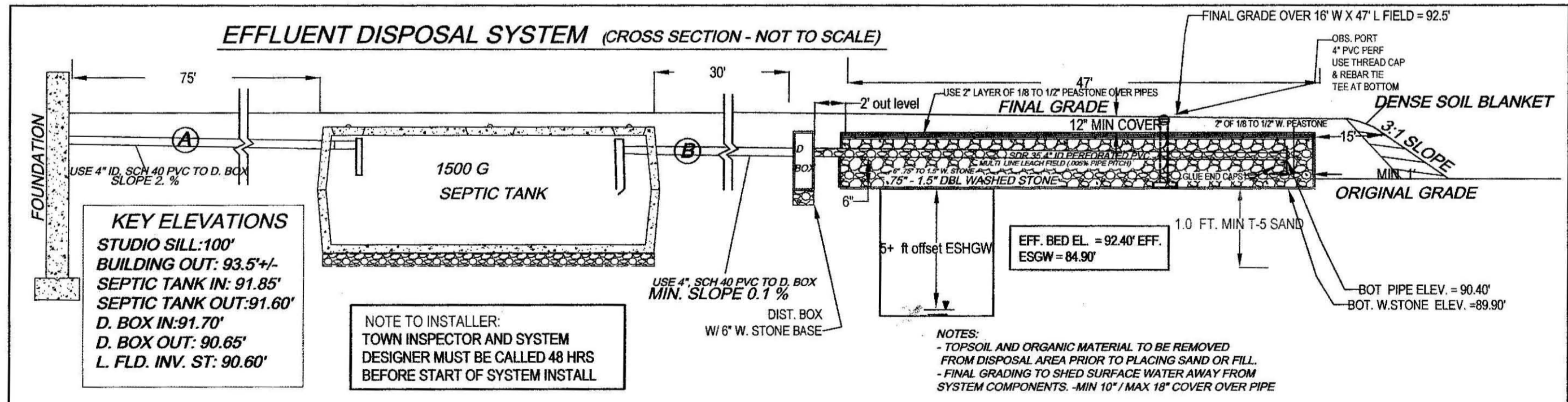
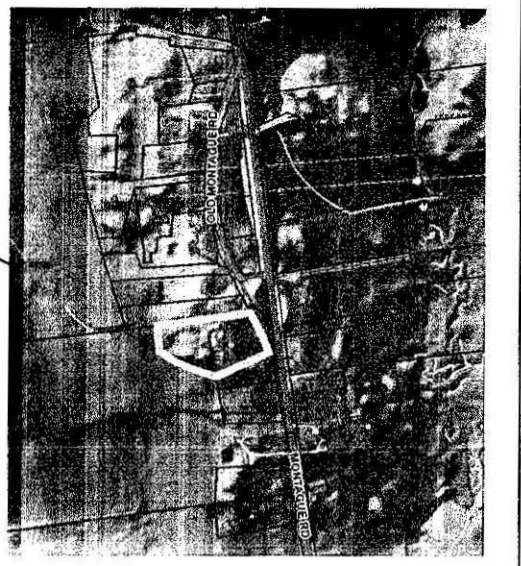
USING EXISTING SEPTIC TANKS:
AN EXISTING 1,500 GALLON TANK CAN BE USED IF UPON INSPECTION BY THE INSTALLING CONTRACTOR, IF THE TANK IS INSPECTED AND PUMPED AND FOUND TO BE STRUCTURALLY SOUND & WATERTIGHT AT THE TIME OF THE SUBGRADE INSPECTION. IF BAFFLES ARE NOT BUILT IN, THAN SCH 40 PVC TEES MUST BE ADDED. IF TANK IS NOT SOUND THAN, NOTIFY ENGINEER IMMEDIATELY IN ORDER TO ACCOMMODATE A NEW 1,500 GALLON (MIN.) SEPTIC TANK. MUST BE MIN 1500 GAL.



DESIGN NOTES AND CALCULATIONS:

- 4-5 (BEDROOM HOME) = 550 GPD MIN. REQUIRED.
- **USE LEACHING FIELD 16' WIDE X 47' LONG WITH 6\"/>**
- STONE BELOW INVERT:
- BOTTOM AREA: L. FIELD (16' W X 47' L) = 752 SF.
- TOTAL AREA: 752 SF X .74 GAL/SF = 556.5 GPD PROVIDED.
- GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
- NO PRIVATE WELLS WITHIN 100 FEET OF SAS.
- NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
- USE S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10\"/>
- NOTE:**
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3\"/>
- USE LARGE STYLE (6 OUTLET) D.BOX ONLY.
- ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2\"/>
- NOTE:**
- D. BOXES WITH MORE THAN 9\"/>
- ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
- USE (.75\"/>
- USE ONLY DBL. WASHED APPROVED (.75\"/>
- 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 & ESHGW (310 CMR 15.240)
- USE 2% MIN. SLOPE OVER SAS
- CLEAR TOP AND SUB TO BASE OF RESTRICTIVE LAYER 26\"/>
- UNDER BED PRIOR TO TITLE V SAND/STONE PLACEMENT.
- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
- SOIL EVALUATION BY A. WEISS, RS. (E. SMITH, BOH AGENT).
- DEPTH OF PIERC. 40\"/>
- PERC RATE = <2 MIN / IN,
- CLASS 1. SAND SOIL RATING
- NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
- ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
- BM=100.00 @ (SILL... 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\"/>

SUBJECT
SITE
LOCATION



KEY ELEVATIONS
STUDIO SILL: 100'
BUILDING OUT: 93.5'+/-
SEPTIC TANK IN: 91.85'
SEPTIC TANK OUT: 91.60'
D. BOX IN: 91.70'
D. BOX OUT: 90.65'
L. FLD. INV. ST: 90.60'

NOTE TO INSTALLER:
TOWN INSPECTOR AND SYSTEM DESIGNER MUST BE CALLED 48 HRS BEFORE START OF SYSTEM INSTALL

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\"/>

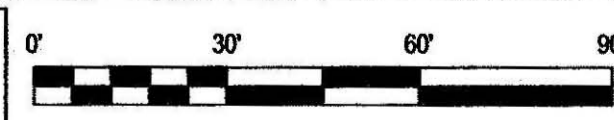
GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

- HAVE TANK PUMPED EVERY 2 YEARS.
- MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

NOTE TO HOMEOWNER AND CONTRACTOR:
CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

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.

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.



TEST PIT LOG:				SOIL EVALUATOR: A. WEISS, RS		DATE OF EVALUATION: 06.11.2013	
TP 1 92.40'				TP 2. ELEV:			
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):
0-6"	A	FSL	10 YR 3.3	0-8"	A	FSL	10 YR 3.3
6-24"	Bw	LS	10 YR 5.6	8-26"	Bw	LS	10 YR 5.6
24-108"	C1	FS	2.5 Y 5.3	26-106"	C1	FS/LS	2.5 Y 5.3
OXIDES: 90" 7.5 YR 6.8				OXIDES: 90" 7.5 YR 6.8			
EHWT: 62"				EHWT: 64"			
STANDING H2O: 100"				STANDING H2O: 100"			
WEEPING: 96"				WEEPING: 96"			
BEDROCK: 120"-126"+				BEDROCK: -			

SEPTIC DESIGN REPAIR PLAN FOR STEVE GROSS
374 OLD MONTAGUE ROAD
AMHERST, MA

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

PHONE: (413) 323-5957
FAX: (413) 323-4916
DATE: 6.24.2013
SCALE: 1"=30'

DRAWN BY: ALAN WEISS
REVISED: -
DRAWING NUMBER: 113-4111-00529

e-Mail: ACWES@charter.net

No. _____

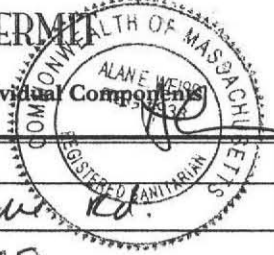
FEE _____

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 Component(s)



Location <u>374 Old Montg</u>	Owner's Name <u>Steve Gross</u>
Map/Parcel# <u>2C / 25</u>	Address <u>374 Old Montague Rd.</u>
Lot# <u>#25</u>	Telephone# <u>549-0268</u>
Installer's Name <u>Karl's Site Work</u>	Designer's Name <u>Alan Weiss, RS</u>
Address <u>Hadley, MA.</u>	Address <u>Baldertown</u>
Telephone# <u>549-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building Residence Lot Size 2.64 +/- sq. ft.
 Dwelling - No. of Bedrooms 4.5 Garbage grinder No
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 440+110 Design flow provided 551 gpd
 Plan: Date 6/24/13 Number of sheets 1 Revision Date _____

Title Sepic System Repair Plan.
 Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator Al Weiss E. Smith. Date of Evaluation 6/11/13

DESCRIPTION OF REPAIRS OR ALTERATIONS New Leach Area (Tank as needed)

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 Alan Weiss Date 6/26/13

Inspections _____

No. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, 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. _____

FEE _____

COMMONWEALTH OF MASSACHUSETTS

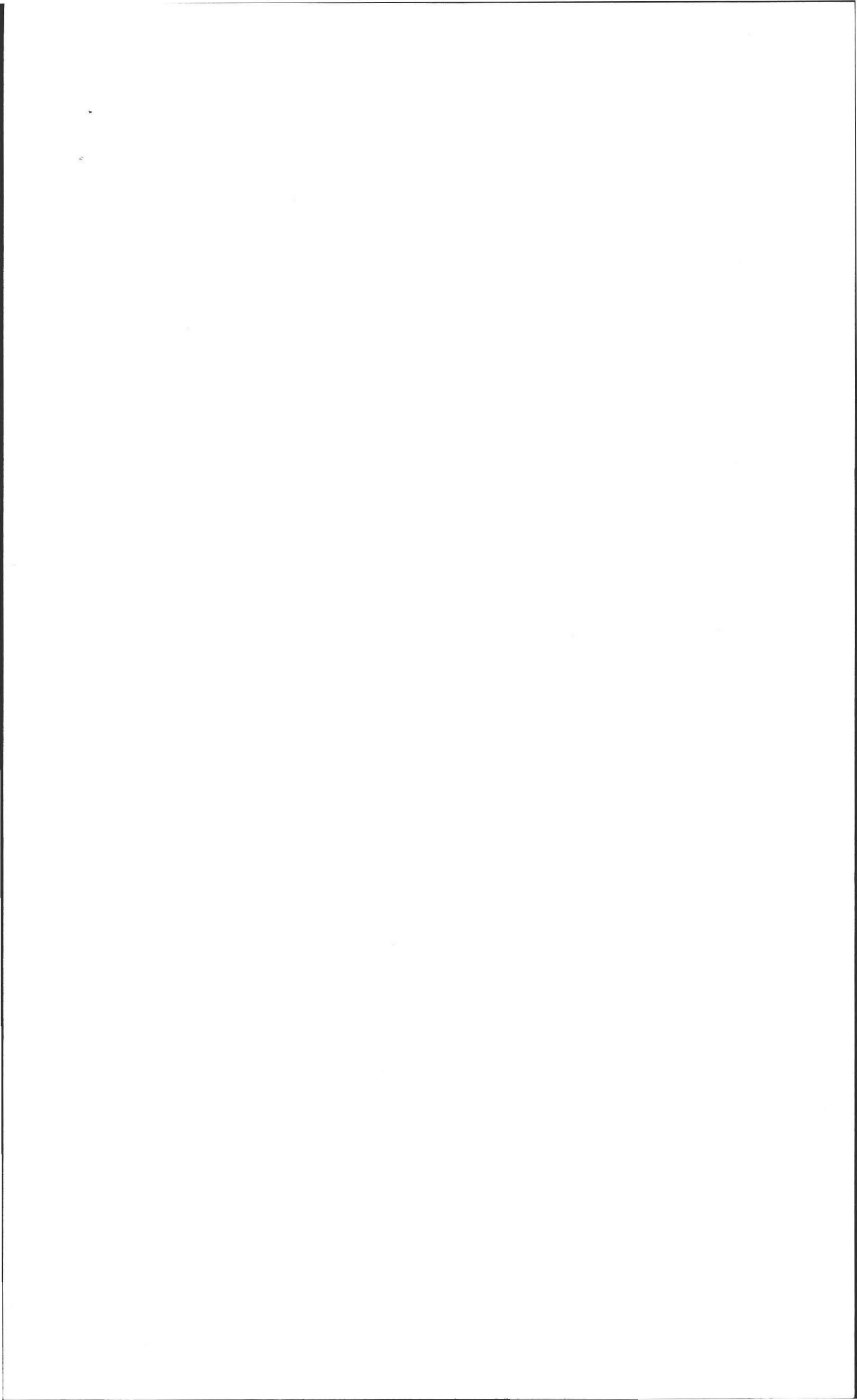
Board of Health, _____, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at _____ as described in the application for

Disposal System Construction Permit No. _____, dated _____.

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





ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and
- Septic Designs
- Title 5 Inspections

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

aeweiss@charter.net

Date: 6/11/13

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

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

Date: 6/11/13

Location Address or Lot # <u>374 Old Montague Rd</u>	Owner's Name, Address, and Telephone # <u>Steve and Carol Gross</u> <u>374 Old Montague Road</u> <u>Amherst, MA 01002</u> <u>413-549-0268</u> <u>413-219-2618 (mobile)</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) _____

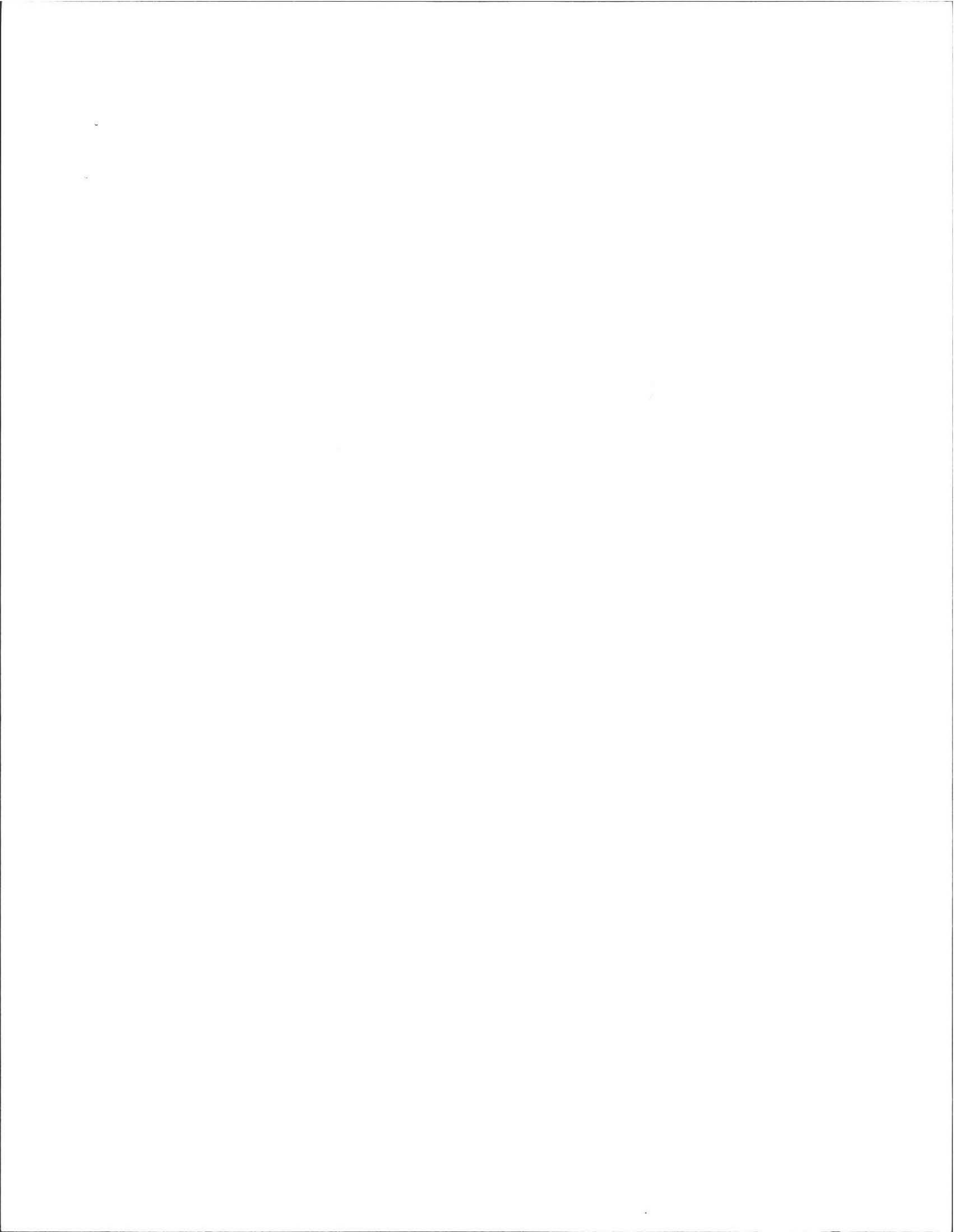
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range: Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 374 Old Montague Rd.

On-site Review

Deep Hole Number 1-2 Date: 6/11/13 Time: 10:00 Weather Showers

Location (identify on site plan) _____

Land Use Vegetation Slope (%) 2 Surface Stones Few

Vegetation Mixed Deciduous

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 50+ feet
 Drinking Water Well 100+ feet Other _____

Town Well

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-6"	Ap	FSC	10YR 3/3		F. Sandy, friable
6"-24"	Bw	LS	10YR 3/6		F. Sandy
24"-106"	C ₁	FS	2.5Y 5/3	90" 7.5YR 6/8	F. Sand to Med Sand
0-8"	Ap	FSC	10YR 3/3		↓ F. Sand to C. Sand
8-26"	Bw	LS	10YR 3/6		
26"-106"	C ₁	FS/LS	2.5Y 5/3	90" 7.5YR 6/8	

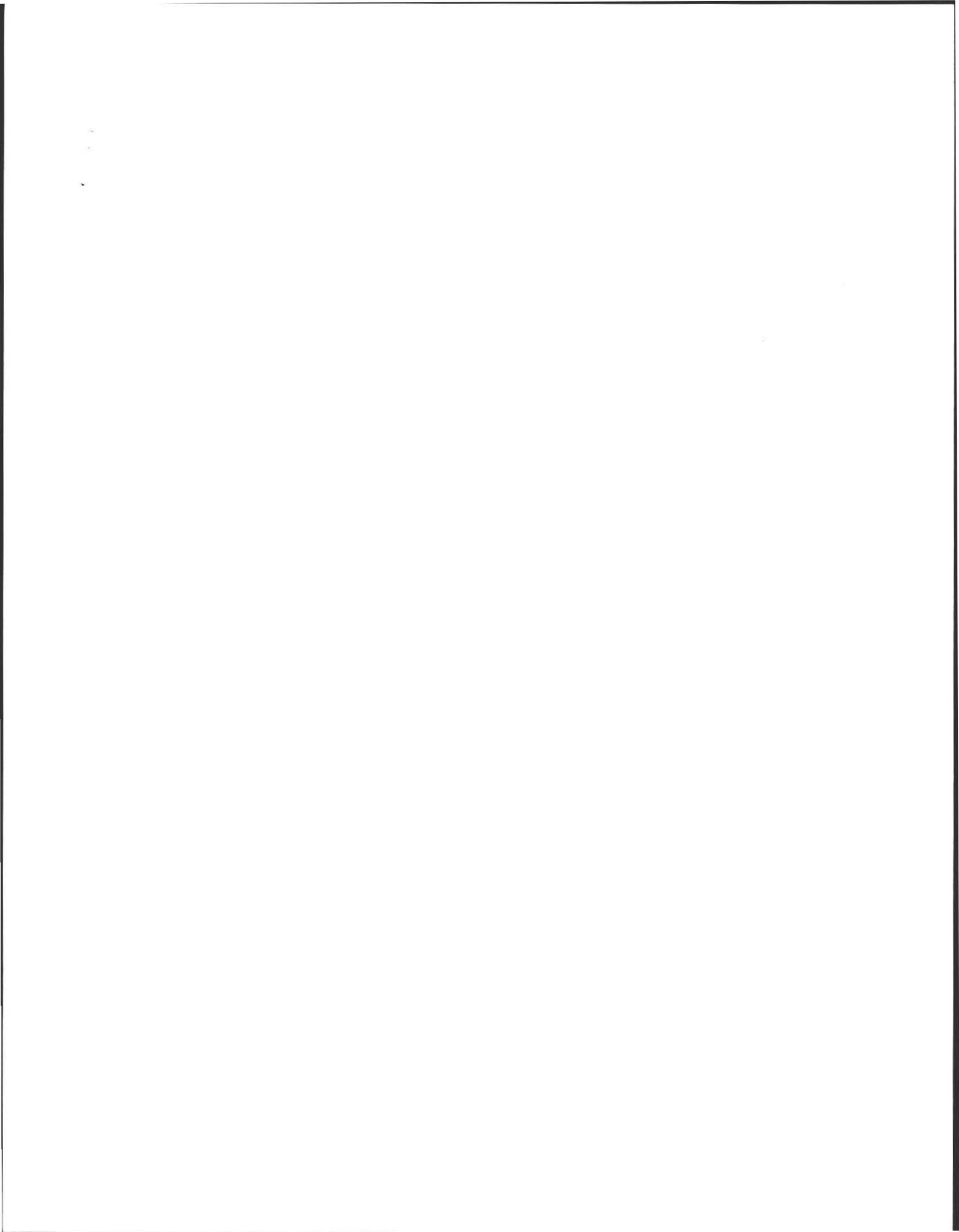
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: 106"

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

Estimated Seasonal High Ground Water: 80"

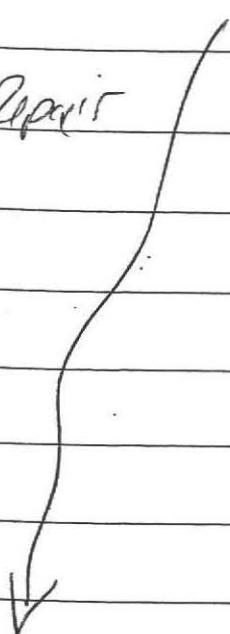




Location Address or Lot No. 374 old Montague RD

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	<u>6/11/13</u>	Time: <u>10:00</u>
Observation Hole #	<u>P1</u>	
Depth of Perc	<u>40"</u>	<u>Repair</u> 
Start Pre-soak	<u>10:14</u>	
End Pre-soak	<u>10:29</u>	
Time at 12"	<u>10:29</u>	
Time at 9"	<u>10:31</u>	
Time at 6"	<u>2:37</u>	
Time (9"-6")	<u>42</u>	
Rate Min./Inch	<u>47</u>	

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

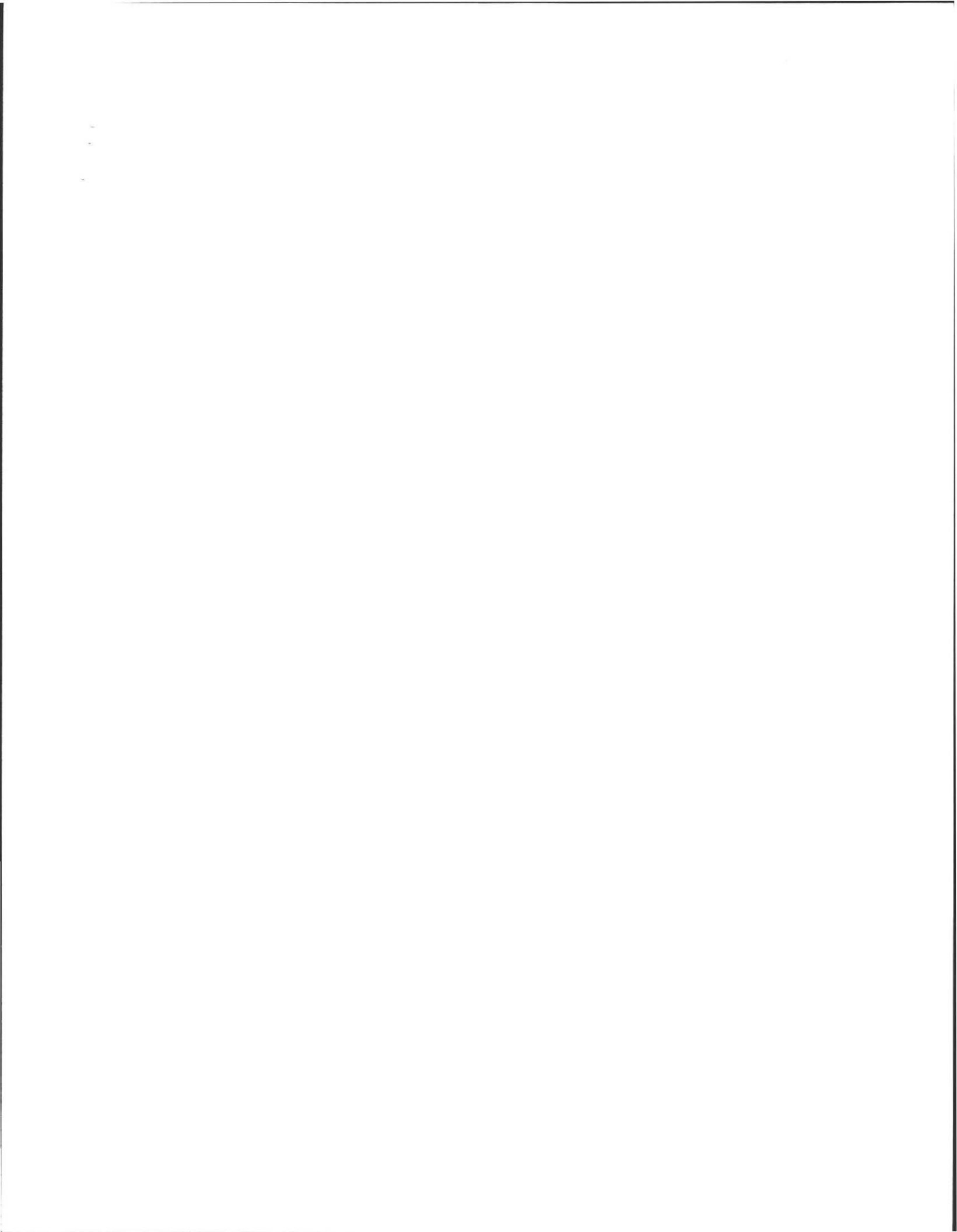
Site Passed Site Failed

Performed By: Alan Weiss RS

Witnessed By: Ed Smith

Comments:





Location Address or Lot No. 374 Old Montague 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 80-90" 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

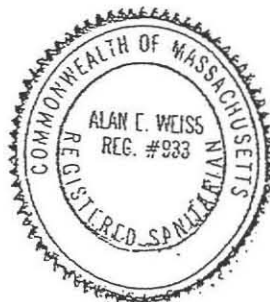
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

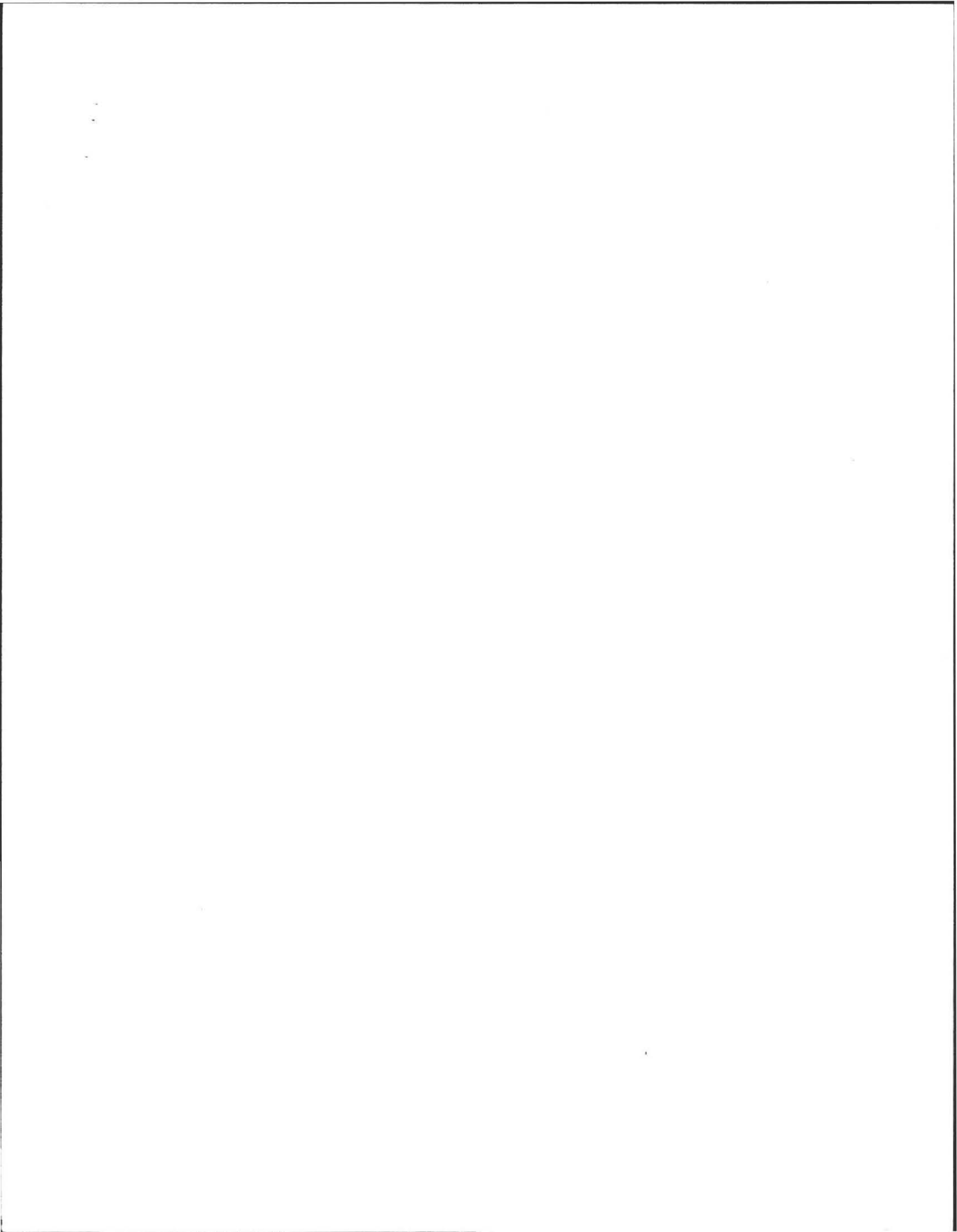
If not, what is the depth of naturally occurring pervious material?

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 6/11/13



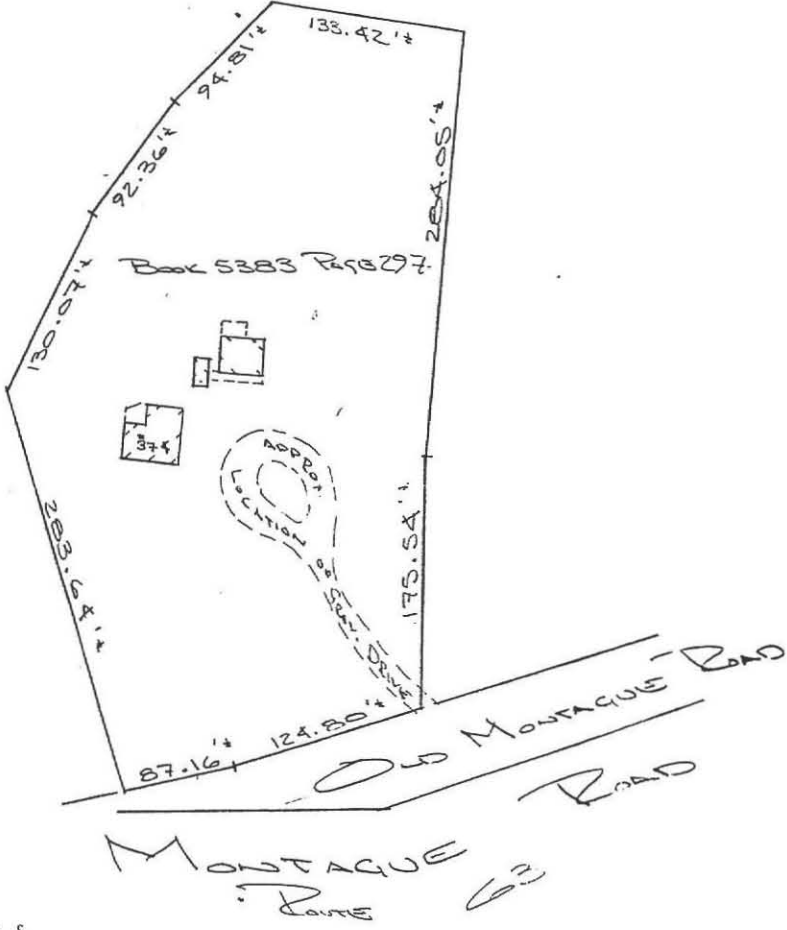


-NOTE-

THIS PLAT IS COMPILED FROM DEEDS, PLANS AND OTHER SOURCES AND IS NOT TO BE CONSTRUED AS AN ACCURATE SURVEY AND IS NOT TO BE RECORDED. BUILDING LOCATION ACCURACY IS NOT GUARANTEED



Map:
- SUBJECT TO AND TOGETHER WITH EASEMENTS AND RIGHTS OF WAYS OF RECORD



TO: PEOPLES SAVINGS BANK & FIRST AMERICAN TITLE INSURANCE COMPANY

TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF I HEREBY REPORT THAT I HAVE EXAMINED THE PREMISES AND BASED ON EXISTING MONUMENTATION ALL VISIBLE EASEMENTS, ENCROACHMENTS AND BUILDINGS ARE LOCATED ON THE GROUND AS SHOWN AND THAT THE BUILDINGS ARE ENTIRELY WITHIN THE LOT LINES, EXCEPT AS NOTED. I FURTHER REPORT THAT THE PROPERTY IS NOT LOCATED WITHIN A FLOOD PRONE AREA AS SHOWN ON FEDERAL FLOOD INSURANCE MAPS FOR COMMUNITY # 250156

SURVEYOR: Randall E. Izer



-NOTE-
THIS PLAT FOR MORTGAGE LOAN PURPOSES ONLY AND DOES NOT CONSTITUTE A PROPERTY SURVEY

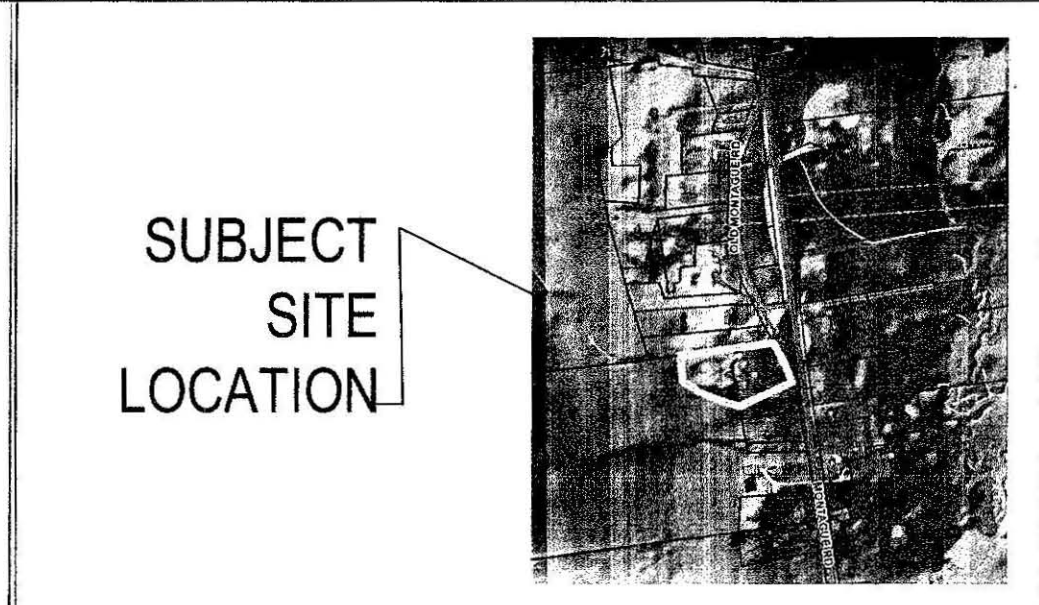
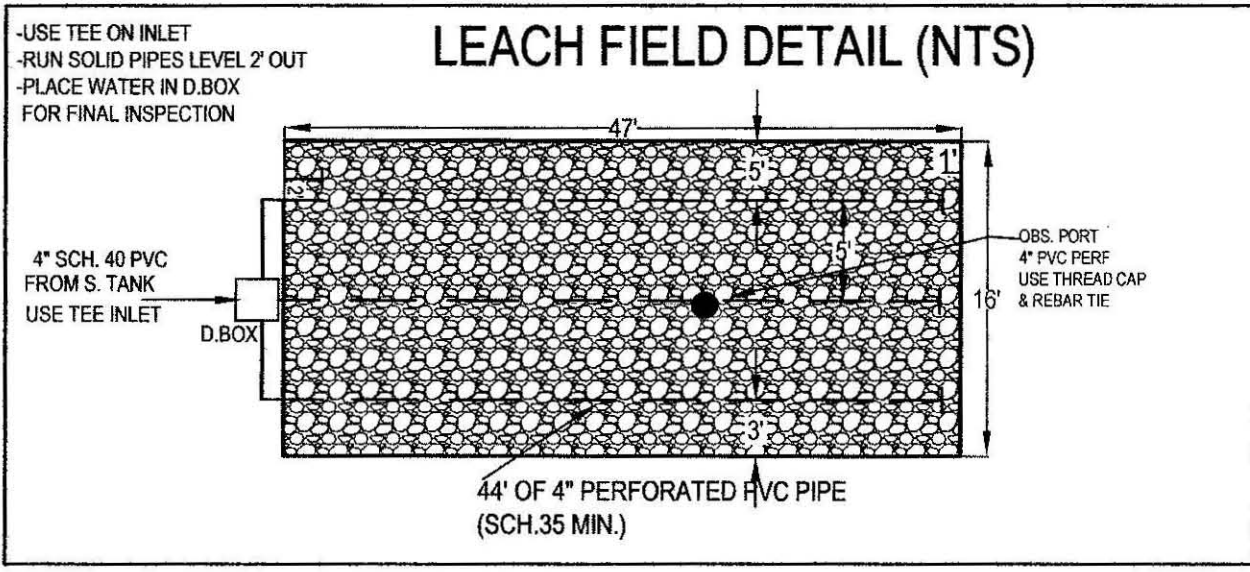
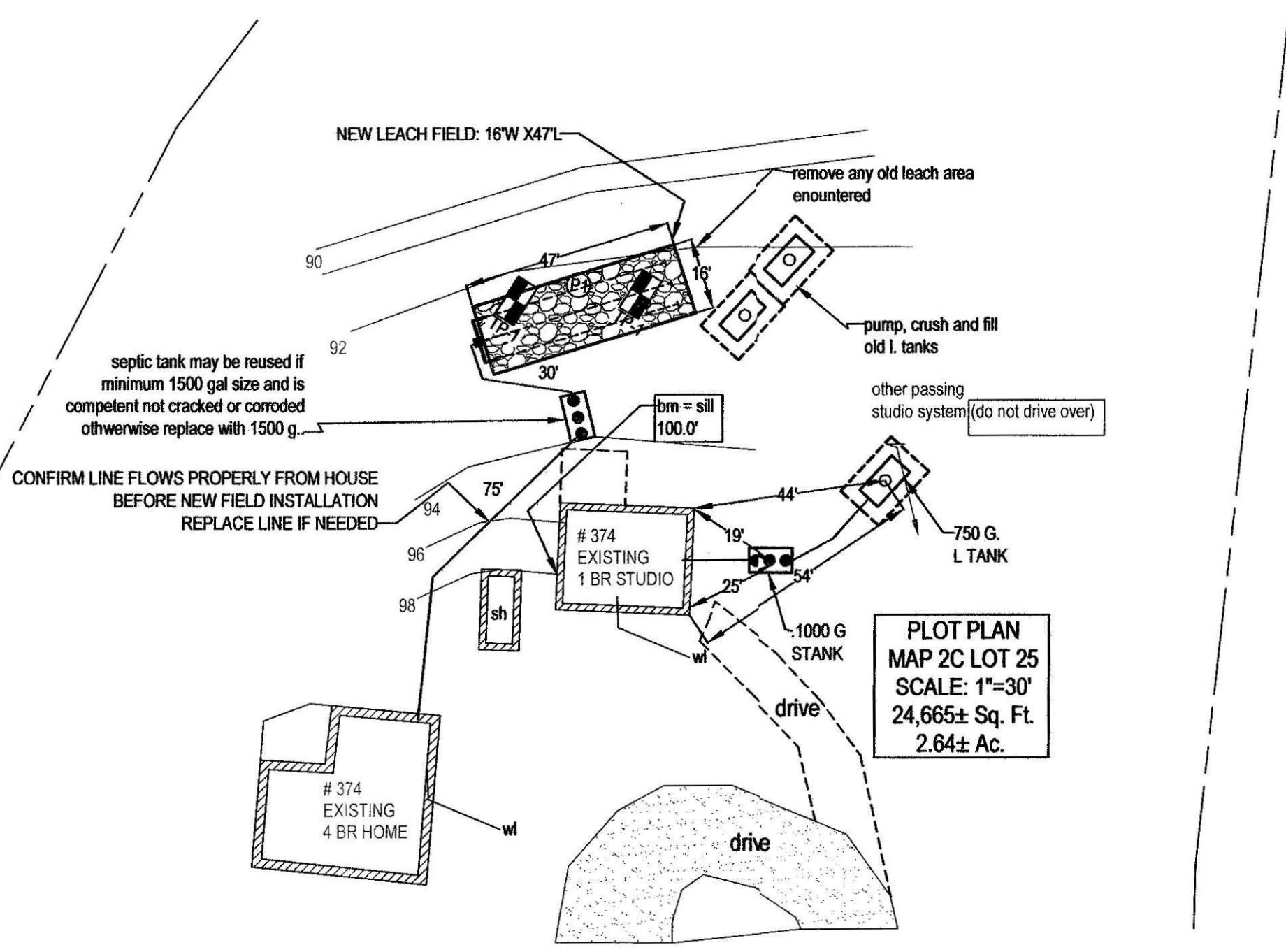
-MORTGAGE LOAN INSPECTION PLAT-

AMHERST, MASSACHUSETTS
PREPARED FOR
JANE A. SINAUER

SCALE: 1"=100' APRIL 25, 2003

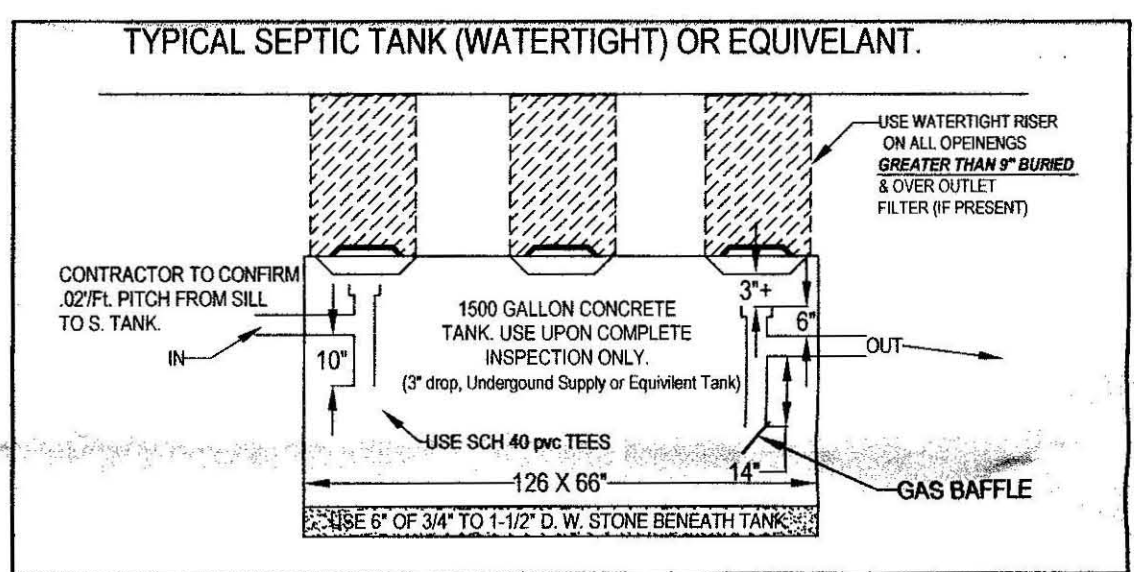
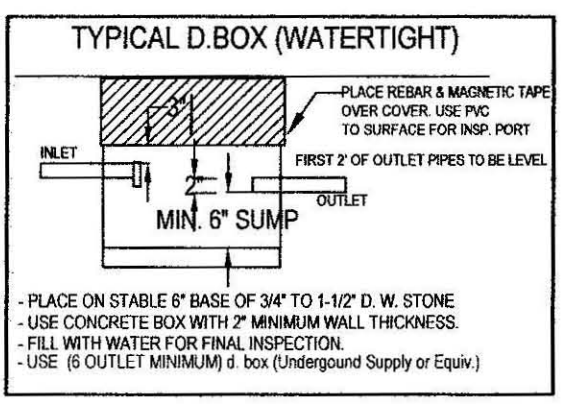
HAROLD L. EATON AND ASSOCIATES, INC.
REGISTERED PROFESSIONAL LAND SURVEYORS
235 RUSSELL STREET - HADLEY - MASSACHUSETTS

1
2
3

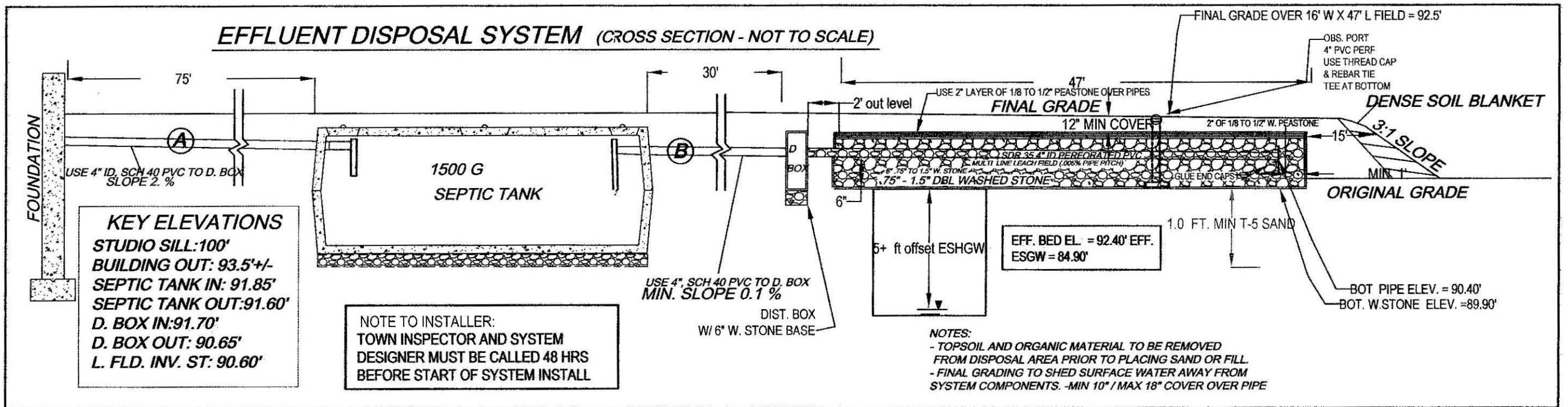
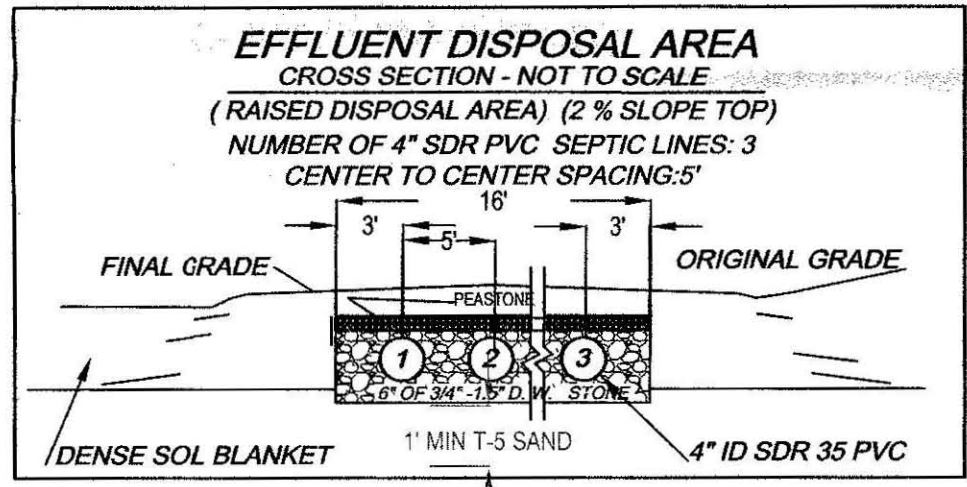


SUBJECT SITE LOCATION

- DESIGN NOTES AND CALCULATIONS:**
- 4-5 (BEDROOM HOME) = 550 GPD MIN. REQUIRED.
 - Use **LEACHING FIELD 16' WIDE X 47' LONG WITH 6" OF 3/4" TO 1/2" DBL WASHED STONE BELOW INVERT**:
 - BOTTOM AREA: L. FIELD (16' W X 47' L) = 752 SF.
 - TOTAL AREA: 752 SF X .74 GAL/SF = 556.5 GPD PROVIDED.
 - GARBAGE DISPOSAL NOT PERMITTED. (A/C AND FURNACE CONDENSATE TUBES NOT ALLOWED)
 - NO PRIVATE WELLS WITHIN 100 FEET OF SAS.
 - NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
 - USE 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.
 - ANY (ALL) PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.
 - USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.
 - USE ONLY DBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.
 - 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. REQ'D.
 - USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)
 - USE 2% MIN. SLOPE OVER SAS
 - CLEAR TOP AND SUB TO BASE OF RESTRICTIVE LAYER 26" MIN. AS NEEDED (INSPECTION REQUIRED).
 - UNDER BED PRIOR TO TITL V SANDSTONE PLACEMENT.
 - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
 - SOIL EVALUATION BY A. WEISS, RS. (E. SMITH, BOH AGENT).
 - DEPTH OF PERC. 40"
 - PERC RATE = < 2 MIN / IN,
 - CLASS 1, SAND SOIL RATING
 - NO TREES WITHIN 10 FT. OF NEW LEACH AREA.
 - ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
 - BM=100.00 @ (SILL... as noted), CONFIRM PROPER PIPE SLOPES
 - USE/INSPECT ISCH. 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..



USING EXISTING SEPTIC TANKS:
 AN EXISTING 1,500 GALLON TANK CAN BE USED IF UPON INSPECTION BY THE INSTALLING CONTRACTOR, IF THE TANK IS INSPECTED AND PUMPED AND FOUND TO BE STRUCTURALLY SOUND & WATERTIGHT 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. MUST BE MIN 1500 GAL.



TEST PIT LOG:				SOIL EVALUATOR:		DATE OF EVALUATION:	
TP 1 92.40'				A. WEISS, RS		06.11.2013	
DEPTH:	HORIZ:	TEXTURE (UNSATURATED)	MATERIAL:	DEPTH:	HORIZ:	TEXTURE (UNSATURATED)	MATERIAL:
0-6"	A	FSL	10 YR 3.3 F. SANDY FRIABLE	0-8"	A	FSL	10 YR 3.3
6-24"	Bw	LS	110 YR 5.6 F. SANDY	8-26"	Bw	LS	10 YR 5.6 F. SANDY
24-108"	C1	FS	22.5 Y 5.3 F.C.SAND GRANULAR	26-106"	C1	FS/LS	2.5 Y 5.3 F.C.SAND
OXIDES: 190" 7.5 YR 6.8				OXIDES: 90" 7.5 YR 6.8			
EHWT: 62"				EHWT: 64"			
STANDING H2O: 100"				STANDING H2O: 100"			
WEEPING: 96"				WEEPING: 96"			
BEDROCK: 120" -126+				BEDROCK: -			

SEPTIC DESIGN REPAIR PLAN FOR STEVE GROSS
 374 OLD MONTAGUE 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: ACWES@charter.net

DATE: 6.24.2013
 SCALE: 1"=30'

DRAWN BY: ALAN WEISS
 REVISIONS: -

DRAWING NUMBER: 113-4111-00529

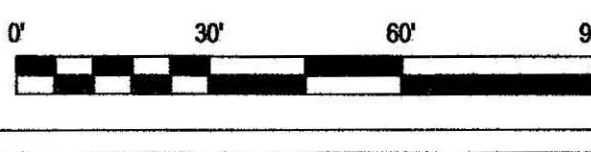
GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

- HAVE TANK PUMPED EVERY 2 YEARS.
- MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.

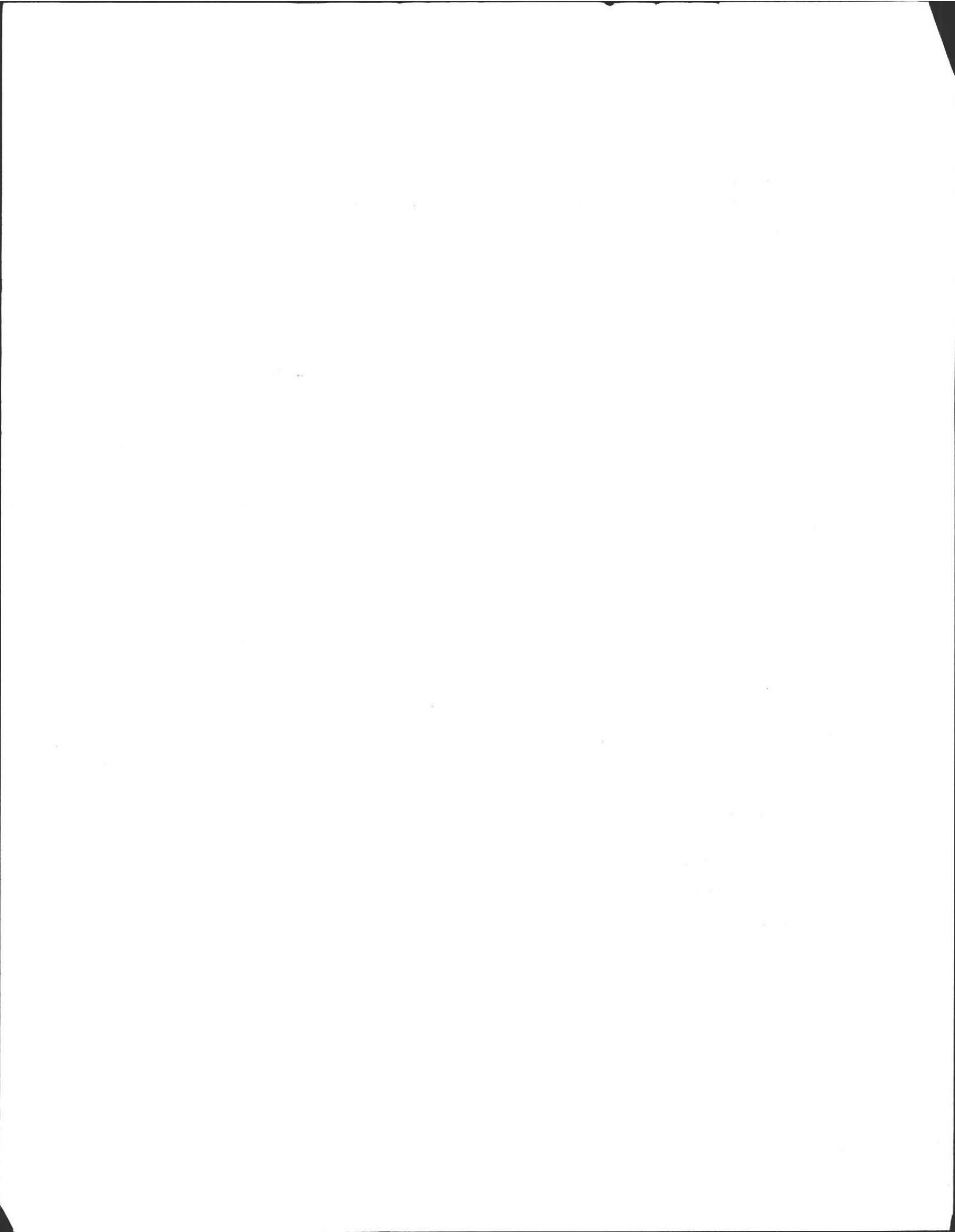
NOTE TO HOMEOWNER AND CONTRACTOR:
 CONNECTIONS FROM HEATING SYSTEM, AIRCONDITIONERS, SUMP PUMPS, WATER WELL FILTRATION UNITS AND HEAT PUMPS ARE NOT ALLOWED, SANITARY WATER CONNECTIONS ONLY PERMITTED.

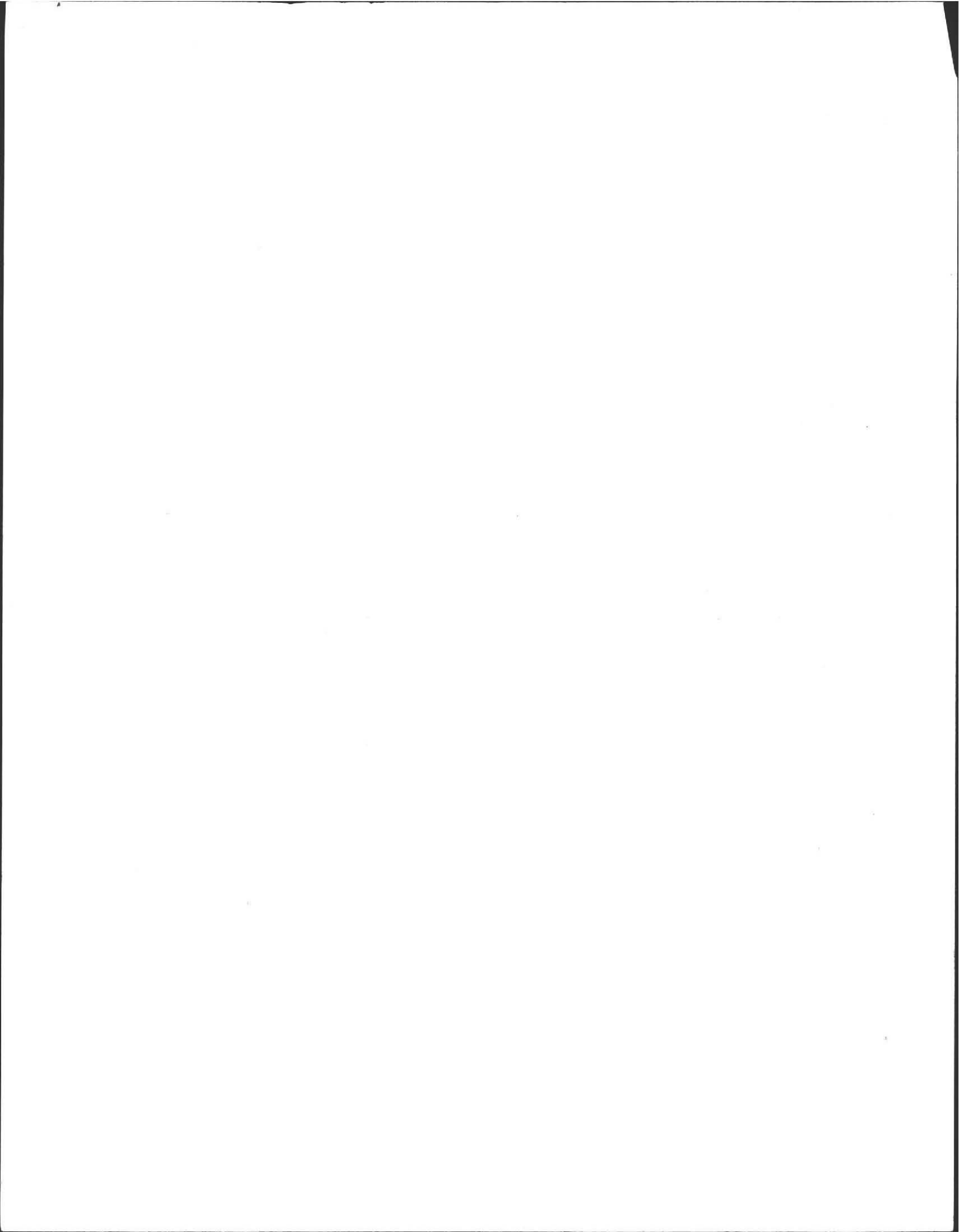
ATTENTION INSTALLER!!
 CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40-40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

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.



373	OLD MONTAGUE ROAD	6/11/13 @ 10:00 a.m.	FIXED	
	soil evaluation.	weather = showers, vegetation	DECIDUOUS	
		few surface stones; terraced		
	10:29	- pie appears to not hold...		
	10:31	9"		
	10:34	gone...		
	96" to oxides			
	open water -	drainage - 50'		
	well	prop. lens - 50'		
	toon water			
0-6	A ₂	FSC	10 yr 3/3	f. sandy, friable
6-24"	B ₂₀	LS	10 yr 5/6	80% f. sandy 7.5 yr 6/8
24-106"	C ₁	FS	2.5 yr 5/3	f. sand to med. sand
0-8	A _p	FSC	10 yr 3/3	90% 7.5 yr 6/8
8-26	B ₂₀	LS	10 yr 5/6	↓ same except: ↓ F. sand to coarse sand
26-106"	C ₁	FS/CS	2.5 yr 5/3	
	outwash		depth to bedrock 106" +	
	no standing water			
	no weeping			
	ESHOW = 80"			





374 OLD MONTAGUE

2003 1 BR APT. TITLE ✓
PASSES

SYSTEM ON HOUSE FAILS SANDY TERRACE ?

TOWN WATER / NO WELL

NEEDS SOIL EVAL.

2 BEPPE - 4 BR
NO GRINDER

email: steve.gross2845@gmail.com

send receipt

(413) 549-0268

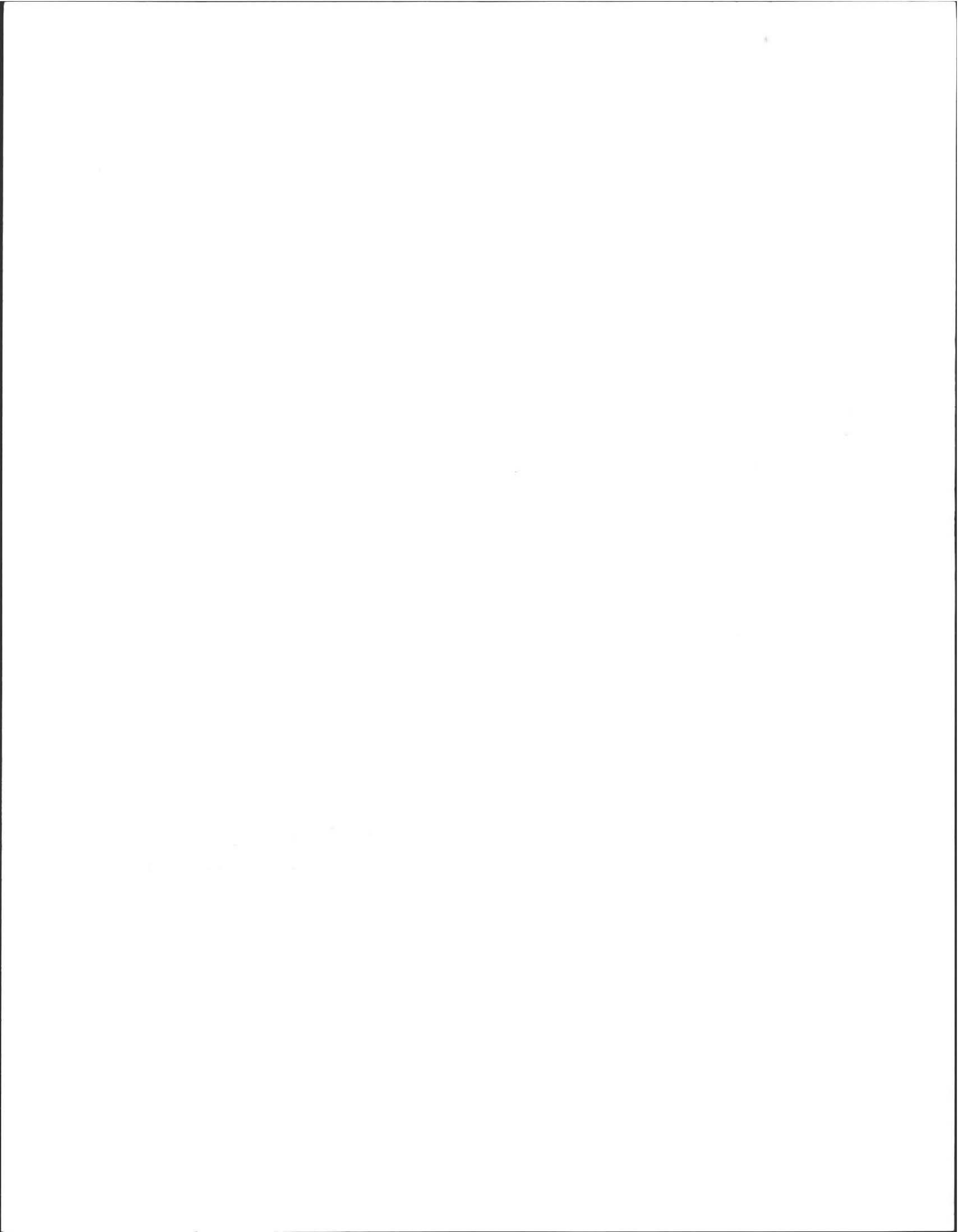
★

10:00 JUNE 11, 2013 SOIL EVALUATION

later in calendar
1500 gallon ~~septic~~ tank (replacement)

2 x \$200 - T-5
1 x \$150 - septic plan review

Perk - 18395, 18400
Batch 6690



CUST NAME
4 BOLTWOOD AVENUE
05/31/13
CITY, ST, ZIP

***TOWN OF A TOWN HAL
AMHERST M REFERENCE
DATE/TIME 14:10

CUST NAME

0
DEPT

DE HEA011

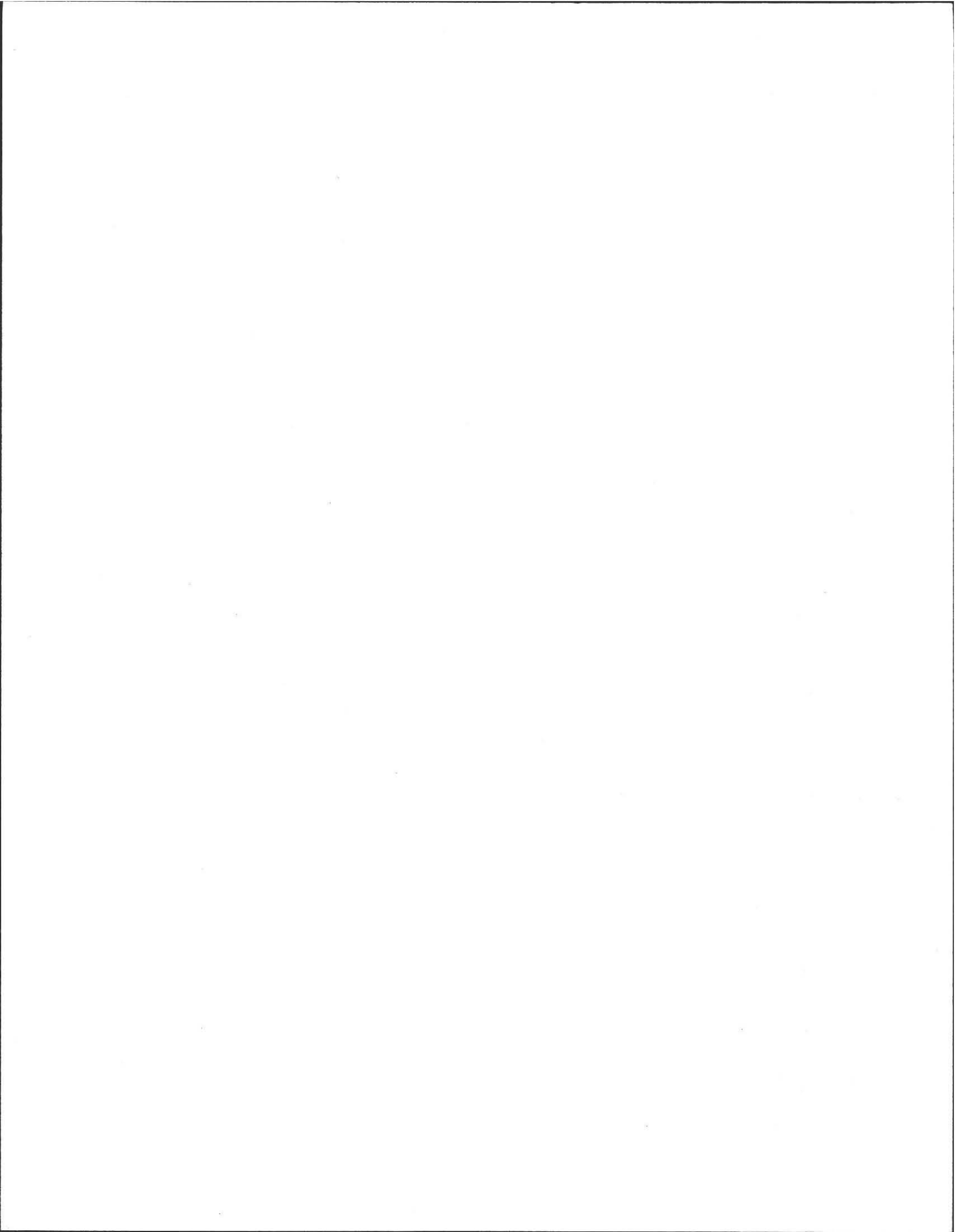
PERCOLATIO 300.

RECPT TOTAL

300.00
CAROL GROS QUA CHECK

784

AMOUNT



CUST NAME
4 BOLTWOOD AVENUE
05/31/13
CITY, ST, ZIP

***TOWN OF A TOWN HAL
AMHERST M REFERENCE
DATE/TIME 15:07

CUST NAME

0
DEPT

DE HEA058

TITLE V WI 250.

RECPT TOTAL

250.00
CAROL S GR QUA CHECK

784

AMOUNT

