

274 Sunderland Road
Frank Bukowski





COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMHERST, MA.

FEE 275⁰⁰
126 Bill Sieruta
OK#6140

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location <u>FRANK BUKOSKI</u>	Owner's Name <u>FRANK BUKOSKI</u>
Map/Parcel# <u>274 SUNDERLAND RD</u>	Address <u>999 EAST PLEASANT ST</u>
Lot# <u>AMHERST MASS</u>	Telephone# <u>AMHERST MASS 01002</u> <u>413 549 1837</u>
Installer's Name	Designer's Name <u>WILLIAM SIERUTA</u>
Address	Address <u>46 OPLAND RD</u> <u>HOLYOKE MA</u>
Telephone#	Telephone# <u>413 532 8525</u>

Type of Building RESIDENTIAL 110MO Lot Size EXISTING sq. ft.
 Dwelling - No. of Bedrooms EXISTING 3 BEDROOM NO DISP Garbage grinder (NO)
 Other - Type of Building 4 BEDROOM DESIGN No. of persons 8 Showers (), Cafeteria (NO)
 Other Fixtures FULL BMT
 Design Flow (min. required) 110 x 4 = 440 gpd Calculated design flow 440 Design flow provided 452 gpd
 Plan: Date 12/20/2004 Number of sheets 1 Revision Date DNA
 Title SEPTIC SYSTEM DESIGN FOR 274 SUNDERLAND RD
 Description of Soil(s) SEE ATTACHED
 Soil Evaluator Form No. 11 Name of Soil Evaluator WJ SIERUTA PE Date of Evaluation 11/22/04

DESCRIPTION OF REPAIRS OR ALTERATIONS complete septic system upgrade for a single family home (4 bedroom design per owner)

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 Frank Bukoski Date 2/15/05
(by Sally Malachuk Acting agent)

Inspections _____

No. 05-01

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

FEE 275⁰⁰
126
OK#6140

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: William Sieruta
at 274 Sunderland Road

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. 05-01 dated 4/19/05. Approved Design Flow _____ (gpd)

Installer William Sieruta Designer: William Sieruta Inspector: David Jozefowicz Date: 4/19/05

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

No. 05-01

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

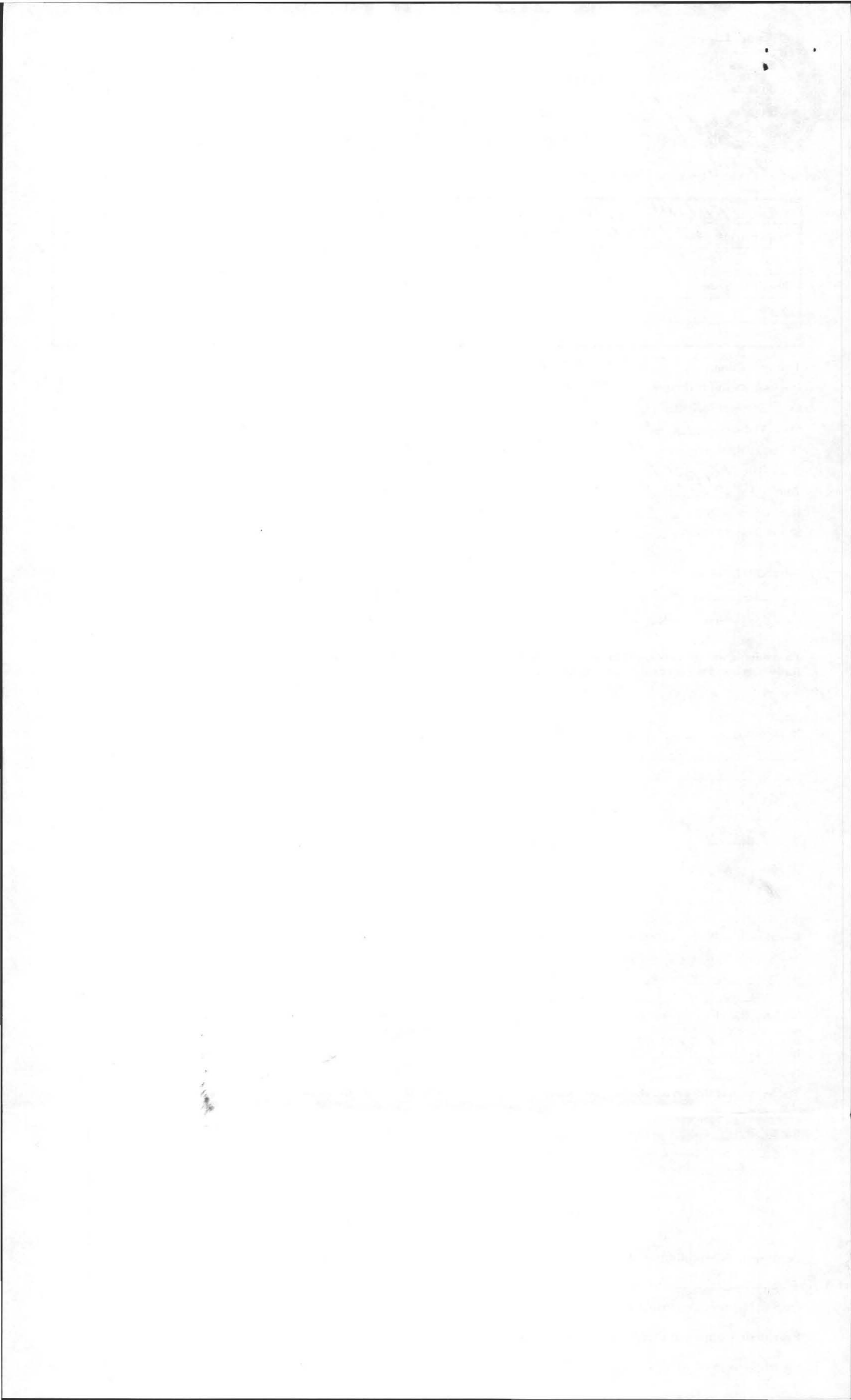
FEE 275⁰⁰
126
OK#6140

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system at 274 Sunderland Rd. as described in the application for Disposal System Construction Permit No. 05-01, dated 12/20/04 Re Design - 2-11-05

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

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA Date 2-11-05 Board of Health David Jozefowicz



WILLIAM J. & MARY B. SIERUTA
SIERUTA LIVING TRUST
46 UPLAND RD.
HOLYOKE, MA 01040

5-13/110
0097020110


6140

DATE 11/22/01

© DELIAZE WALKER OR DUPLICATE SAFETY PAPER

PAY TO THE ORDER OF TOWN OF Amherst \$ 275.00

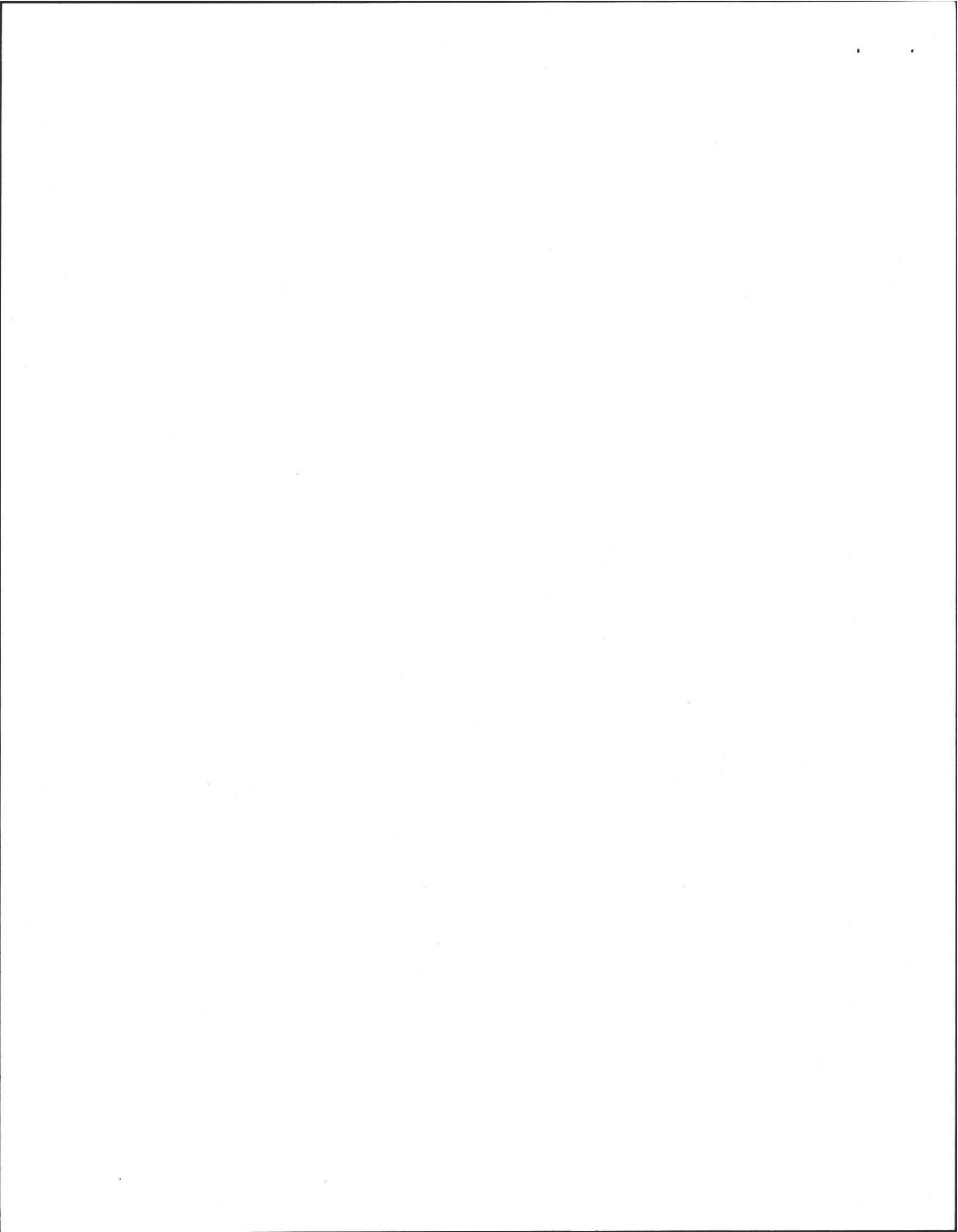
Two hundred seventy Five Dollars

DOLLARS  Security Features included. Details on back.

 **Fleet**
88143
Community Bank
www.fleet.com
Holyoke, Massachusetts

MEMO Bunkoski William J. Sieruta MP

⑆0⑆1000⑆38⑆00970 20⑆10⑆6140



No. _____

Date: 11/22/04

Commonwealth of Massachusetts
Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM SIERUTA PE #VAL Date: 11/22/04
Witnessed By: DAVID ZAROWSKI BOH

Location Address or Lot # <u>FRANK J BUKOSKI</u> <u>274 SUNDYLAND RD</u> <u>NO Amherst MA</u>	Owner's Name Address, and Telephone # <u>FRANK J BUKOSKI</u> <u>99 EAST PLEASANT ST</u> <u>Amherst MA</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No Yes 413 549 1837

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) _____

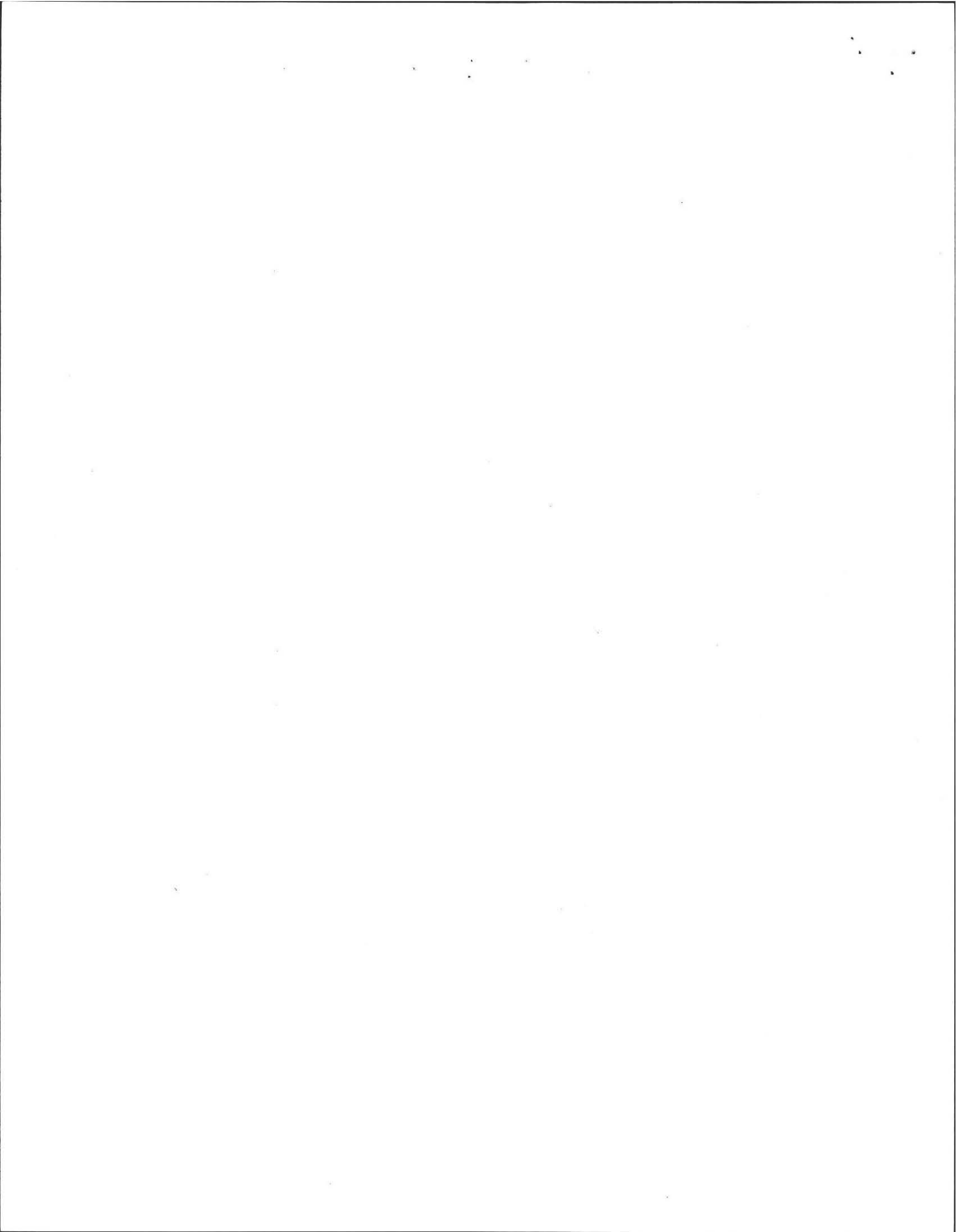
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range : Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 274 Summerland Rd
Amherst MA
 Deep Hole Number TH-1 Date: 11/20/04 Time: 8:30 Weather: Clear Cool
 Location (Identify on site plan) Residential
 Land Use Residential Slope (%) 4 Surface Stones None
 Vegetation grassland
 Landform overwash plain
 Position on landscape (sketch on the back) DNA
 Distances from:
 Open Water Body 120 feet
 Possible Wet Area 120 feet
 Drinking Water Well 160 feet

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structures, Stones, Boulders, Gravel)
0-8	Ap	3/2	10YR 2-2		
8-12	Bw	4s	10YR 5-4	10YR 5-8	no stone
12-60	C1	4s	10YR 5-4	24	
60	C2	LOAMY CLAY	5-4	60-1	NO stone massive layered clay
124			5-4	25"	

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
 Parent Material (geologic) QVW15H Depth to Bedrock: DNA
 Depth to Groundwater: Standing Water in the Hole: 38 Weeping from Pit Face:
 Estimated Seasonal High Ground Water: not filling
ENWT 25



DEP APPROVED FORM - 12/07/05

Location Address or Lot No. 274 Summerland Rd
Amherst MA
 Deep Hole Number TH-2 Date: 11/20/04 Time: 8:30 Weather: Clear
 Location (Identify on site plan) Residential
 Land Use Residential Slope (%) 0 Surface Stones None
 Vegetation grassland
 Landform overwash plain
 Position on landscape (sketch on the back) DNA
 Distances from:
 Open Water Body 160 feet
 Possible Wet Area 160 feet
 Drinking Water Well 120 feet

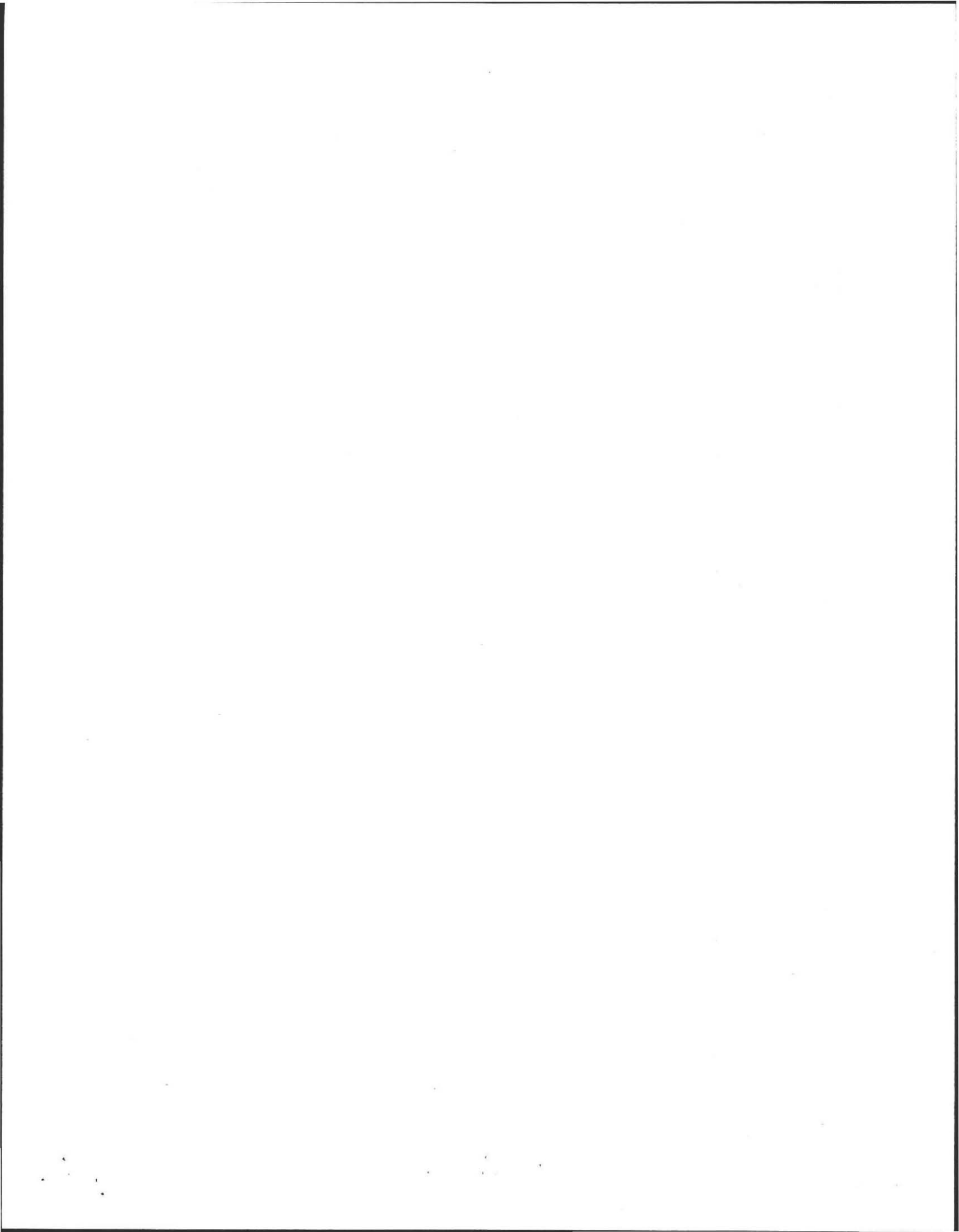
DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Structures, Stones, Boulders, Gravel)
0-10	Ap	3/2	10YR 3-2		
10-14	Bw	4s	10YR 5-4	10YR 5-2	no stone
14-64	C1	4s	2.5-4	10YR 6-1	
64	C2	LOAMY CLAY	5-4	6-1	no stone
120			4-2		

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
 Parent Material (geologic) QVW15H Depth to Bedrock: DNA
 Depth to Groundwater: Standing Water in the Hole: 45 Weeping from Pit Face:
 Estimated Seasonal High Ground Water: not filling
ENWT 25



DEP APPROVED FORM - 12/07/05



Percolation Test

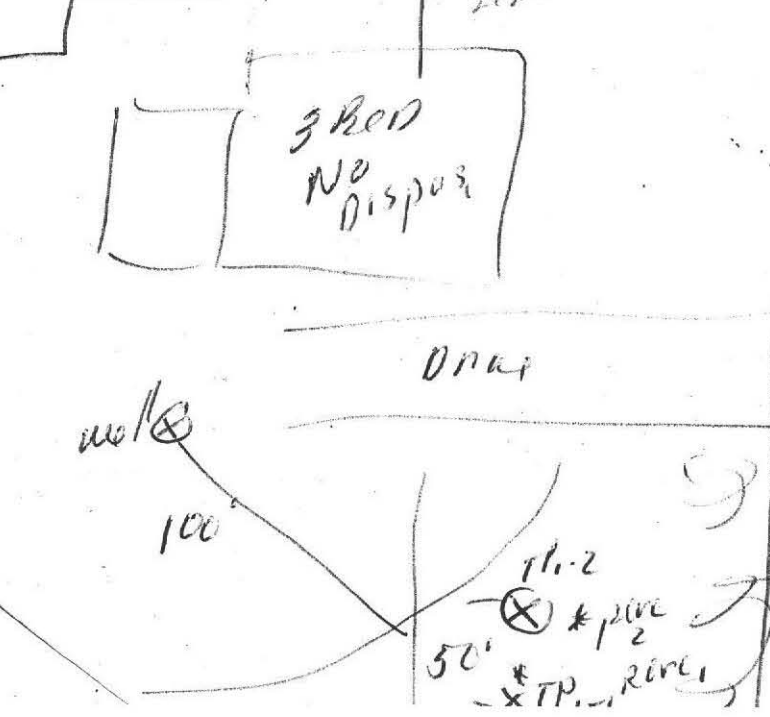
Test No. perc 1
 Reading _____ Time 2990s
 Saturation (15 min) _____
12 _____ 940
11 _____ _____
10 5/3 = 1.66 _____
9 _____ 949
8 _____ _____
7 _____ _____
6 _____ 1008
5 _____ _____
 Perc Rate 4.66 Design rate
 Ground Elev. 5.0 Min/inch
 Depth of Hole 44

Test No. perc 2
 Reading _____ Time 2490s
 Saturation (15 min) _____
12 _____ 940
11 _____ _____
10 _____ _____
9 _____ 949
8 8/3 _____
7 _____ _____
6 _____ 958
5 _____ _____
 Perc. Rate 2.66 Design rate
 Ground Elev. 5.0 Min/inch
 Depth of Hole 52

Test Pit _____ Deep Test Pit/6
 Depth _____ Soil Description _____
0-8 OTS LOAM
8-12 SILTY SAND SUB
12-60 SAND FINE TO
60-122 MOD
CLAY VARIED
 Groundwater Depth 30 Elev. _____
 Bedrock Depth _____ Elev. _____
 Ground Elev. _____
 S.C.S. Soil Description EHWT 35
 Seasonal High Water Table? As Noted
 Bench Mark: Elev. 200.00 Description SILL HOUSE

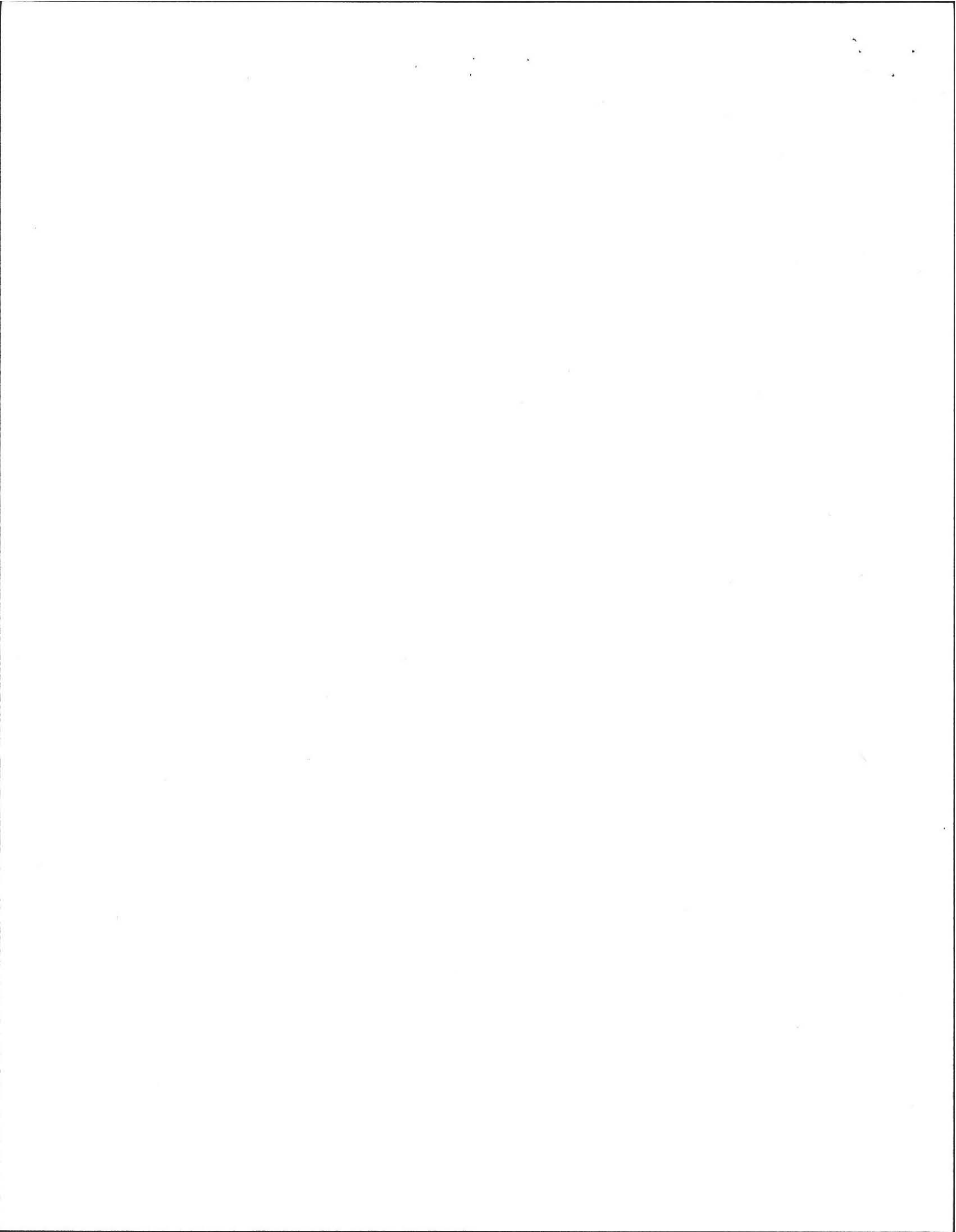
Test Pit _____ Deep Test Pit/6
 Depth _____ Soil Description _____
0-10 OTS LOAM
10-14 SILTY SAND SUB
14-64 Finest med sand
VARIED CLAY
 Groundwater Depth 45 Elev. _____
 Bedrock Depth _____ Elev. _____
 Ground Elev. _____
 S.C.S. Soil Description EHWT 25
 Seasonal High Water Table? As Noted
 Bench Mark: Elev. _____ Description _____

BARNS COMMENTS:



Date: 11/22/04
 Client: FRANK Birkoski
999 EAST PLANSWAT ST
Amherst MASS
 Engineer: WJ SIERKWA
 Witness: D. ZANAEWSKI
 Location of Perc: 274 Sunderland RD
Amherst MA

Sunderland
RD



FORM 12 - PERCOLATION TEST

Location Address or Lot No. 274 Sunnyside Rd

COMMONWEALTH OF MASSACHUSETTS
No Ambers!, Massachusetts

Percolation Test*		
Date:	<u>11/22/04</u>	Time: <u>-</u>
Observation Hole #	<u>TP1-1</u>	<u>TP1-2</u>
Depth of Perc	<u>44</u>	<u>52</u>
Start Pre-soak	<u>24 gals</u>	<u>24 gals</u>
End Pre-soak	<u>940</u>	<u>940</u>
Time at 12"	<u>940</u>	<u>940</u>
Time at 9"	<u>947</u>	<u>945</u>
Time at 6"	<u>1001</u>	<u>955</u>
Time (9"-6")	<u>14/3 = 4.66</u>	<u>8/3 = 2.66</u>
Rate Min./Inch	<u>Designated 5.0</u>	<u>Designated 5.0</u>

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area. 48" separation 310 CMR 15.212

Site Passed Site Failed

Performed By: Walter White

Witnessed By: DAVID ZARABINSKI BOIT

Comments: _____

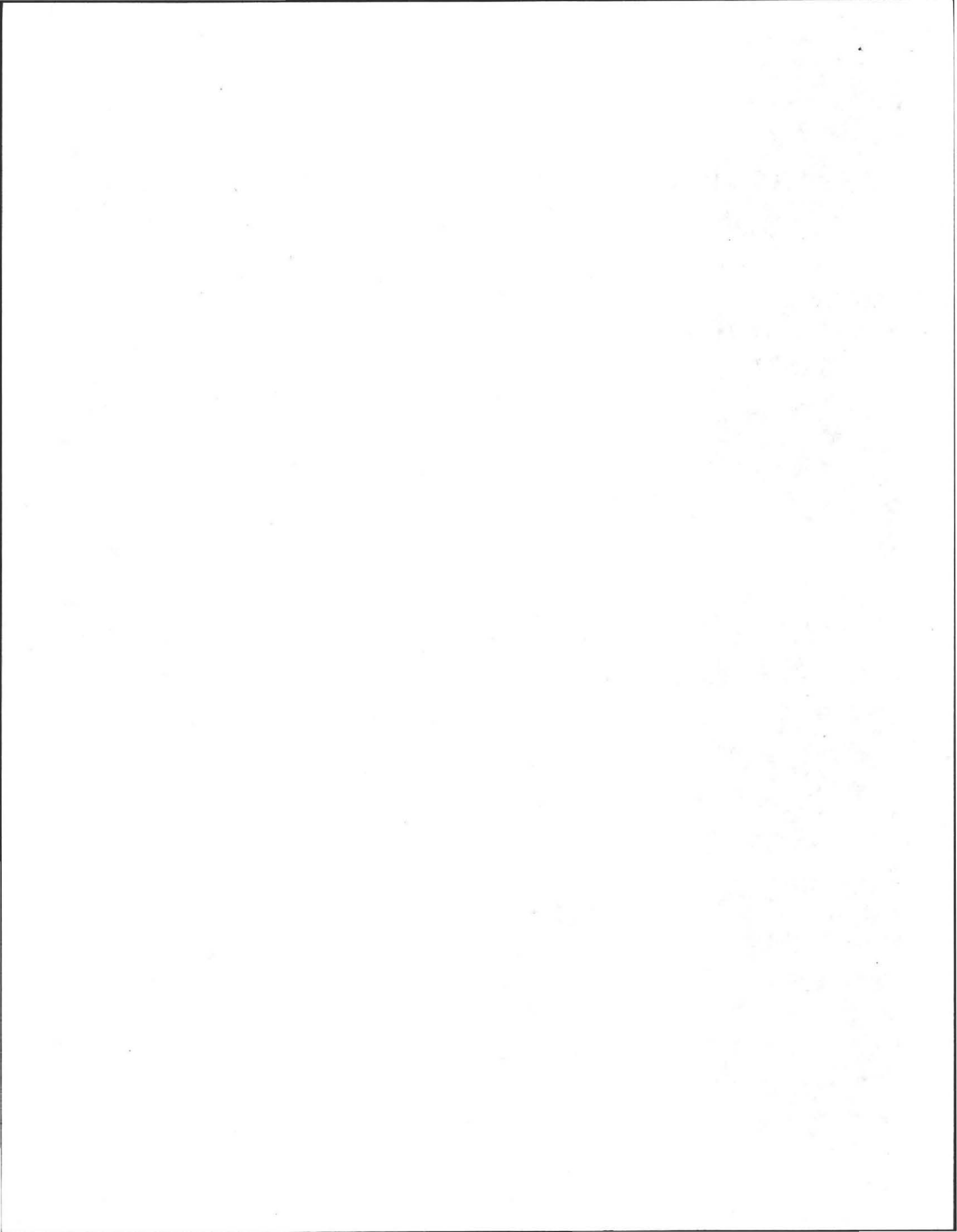






274 Sunderland Road 11/22/04
Deep Holes and perc tests for repair
Performed by Bill Seruta





Commonwealth of Massachusetts

Town of: Amherst

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: Bill Stewart Date: 10/22/04
Witnessed By: David Zerkowich

Location Address of: Lot #	<u>274 Sunderland Rd</u>	Owner's Name:	<u>FRANK BUHOSKI</u>
		Address of:	<u>274 Sunderland Rd</u>
		Telephone:	<u>99 EAST Pleasant St 549-1837</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 (uses): month _____
Range: Above Normal Normal Below Normal

Other Reference Reviewed:

Per 175.00
Plans 100

William Stewart PS cutt
6140

Determination: Seasonal High Water Table

Methods Used:

- Depth observed standing in observation hole _____ inches
- Depth weeping from side of observation hole _____ inches
- Depth to soil mottles _____ inches
- Ground water adjustment _____ feet

Index Well No. _____ Reading Date _____ Index Well Level _____
Adjustment factor _____ Adjusted ground water level _____

Depth of Naturally Occurring Previous Material

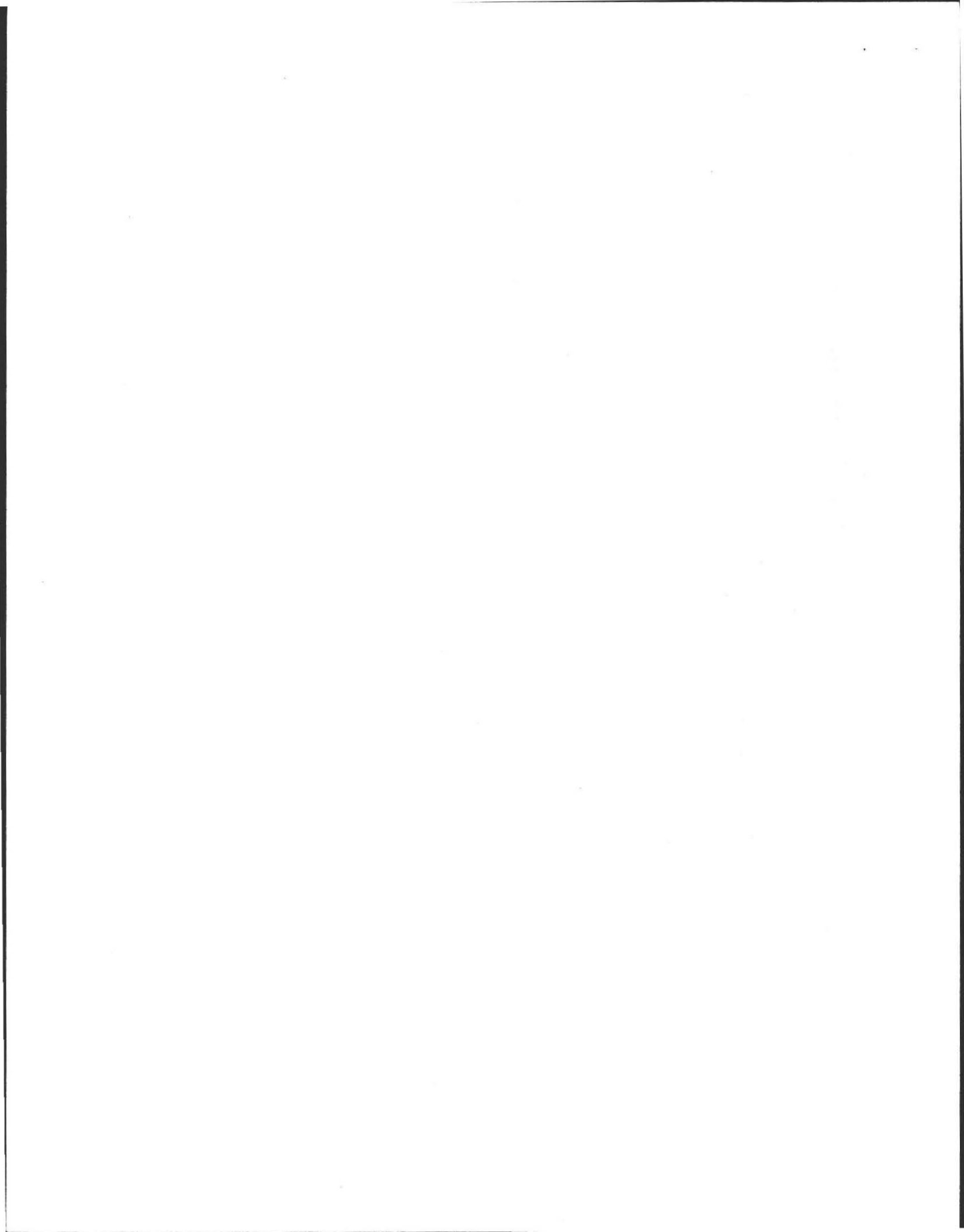
Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? _____

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

Certification

I certify that on _____ (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 _____



11/22/04

Brady

#3 Hole

well

3 Backams
No c/c

#1 Hole
#2 Hole
#3 Hole
#4 Hole
#5 Hole
#6 Hole
#7 Hole
#8 Hole
#9 Hole
#10 Hole
#11 Hole
#12 Hole
#13 Hole
#14 Hole
#15 Hole
#16 Hole
#17 Hole
#18 Hole
#19 Hole
#20 Hole
#21 Hole
#22 Hole
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#35 Hole
#36 Hole
#37 Hole
#38 Hole
#39 Hole
#40 Hole
#41 Hole
#42 Hole
#43 Hole
#44 Hole
#45 Hole
#46 Hole
#47 Hole
#48 Hole
#49 Hole
#50 Hole

Sunday 11/22/04

FORM 12: Percolation Test
Location Address or Lot #

274 Sun Deerland Rd

Commonwealth of Massachusetts
Town of Amherst

PERCOLATION TEST *		
DATE:	11/22/04	
TIME:		
Observation Hole #	(1)	(2)
Depth of Perc	44	52"
Start Pre-soak	9:00	9:00 - 9:15
End Pre-soak	9:15	24 gals
Time at 12"	9:40	9:40
Time at 9"	9:47	9:48
Time at 6"	10:01	9:54
Time (9"-6")	14	9
Rate Min./Inch	5	3

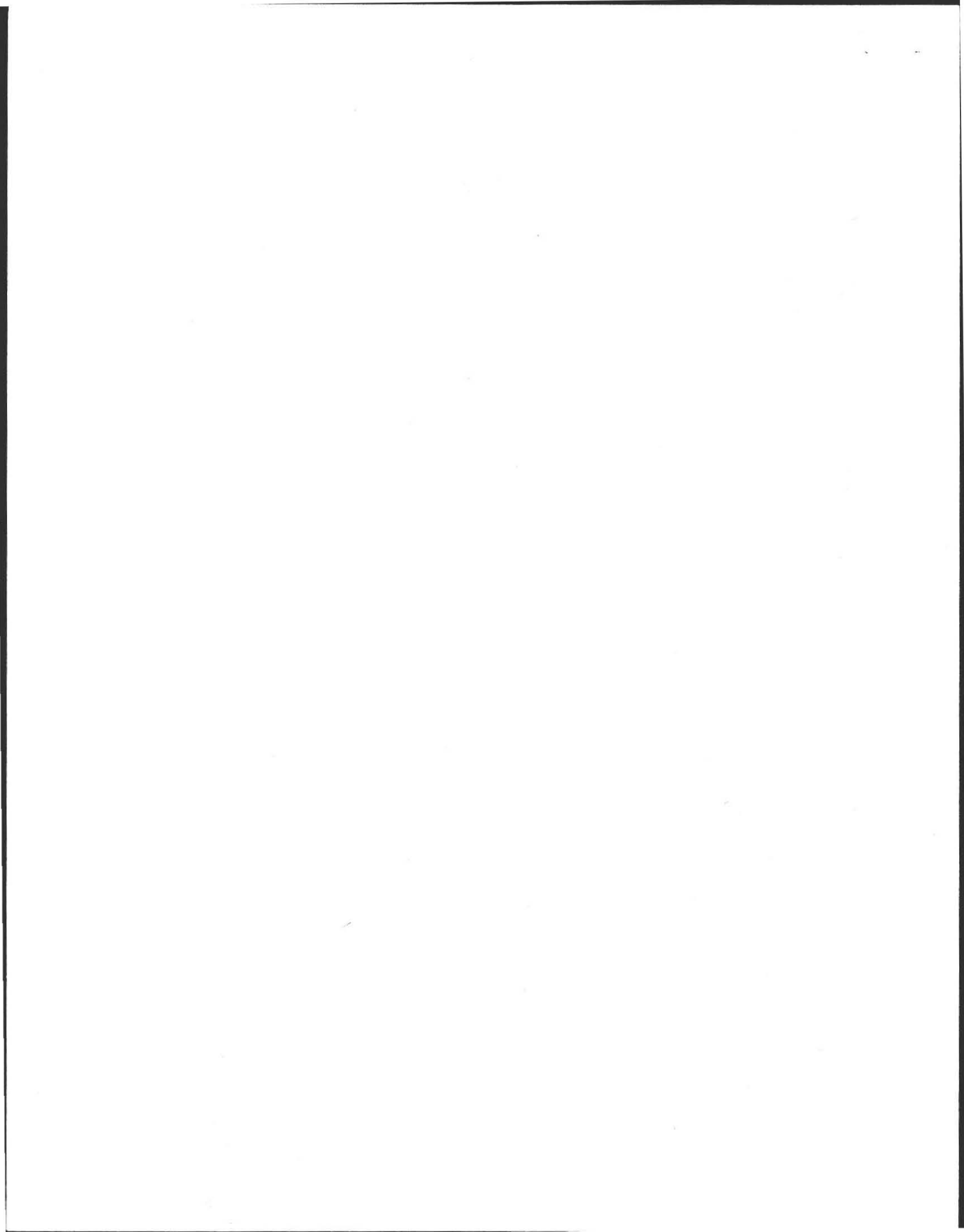
*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed Site failed

Performed by Bill Stewart

Witnessed by David Jarozumi

Comments:



On-Site Review

Deep Hole Number ① Date: 11/22/04 Time 9:00
 Weather Sunny 48°
 Location (identify on site plan) _____
 Land Use Road Slope (%) 0
 Surface Stone Flint Lnd
 Vegetation: GRASS

Landform: OUTWASH

Position on Landscape (sketch on back) _____

Distances from:

Open Water Body 100 feet

Drainageway DNA feet

Possible Wet Area 100 feet

Property Line 40 feet

Drinking Water Well 100 feet

Other FRONT

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
8	AP	SL	10YR 2/2	10YR 5/8	200 STAL
12	Bu	LS	10YR 5/4	2Y 6/1	MARBLE
60	C1	LS	2.5Y 5/4	25"	Faintly
122	C2	Ldm / clay	5Y 4/2		Spacious Bridgy

Parent Material (geologic) OUTWASH

Depth to Bedrock 122

Depth to Groundwater:

Standing Water in the Hole 38

Weeping from Pit Face 38

Estimated Seasonal High Water 25"

On-Site Review

Deep Hole Number _____ Date: _____ Time _____
 Weather _____
 Location (identify on site plan) _____
 Land Use _____ Slope (%) _____
 Surface Stone _____
 Vegetation: _____

Landform: _____

Position on Landscape (sketch on back) _____

Distances from:

Open Water Body _____ feet

Drainageway _____ feet

Possible Wet Area _____ feet

Property Line _____ feet

Drinking Water Well _____ feet

Other _____

DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
10	AP				Same
14	Bu				
64	C1				
120	C2				

Parent Material (geologic) OUTWASH

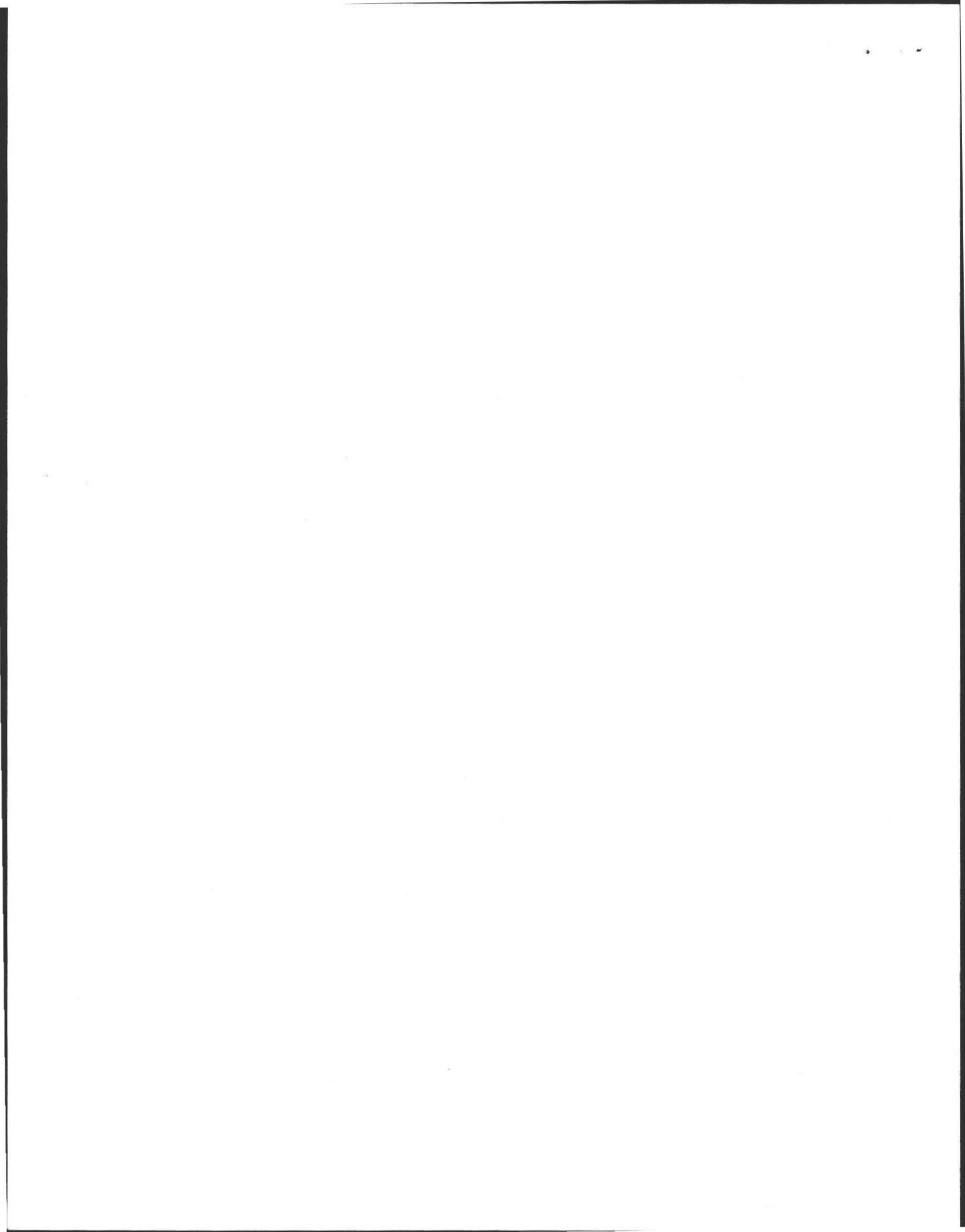
Depth to Bedrock 120

Depth to Groundwater:

Standing Water in the Hole 45

Weeping from Pit Face 45

Estimated Seasonal High Water 28



F. Bukosko

Location Address or Lot No. 374 Wonderland Rd
Ma Parkers MN

Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole inches 7P-1 7P-2
- Depth weeping from side of observation hole inches 38 45
- Depth to soil mottles inches 38 45
- Ground water adjustment feet 25 25

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? *y*

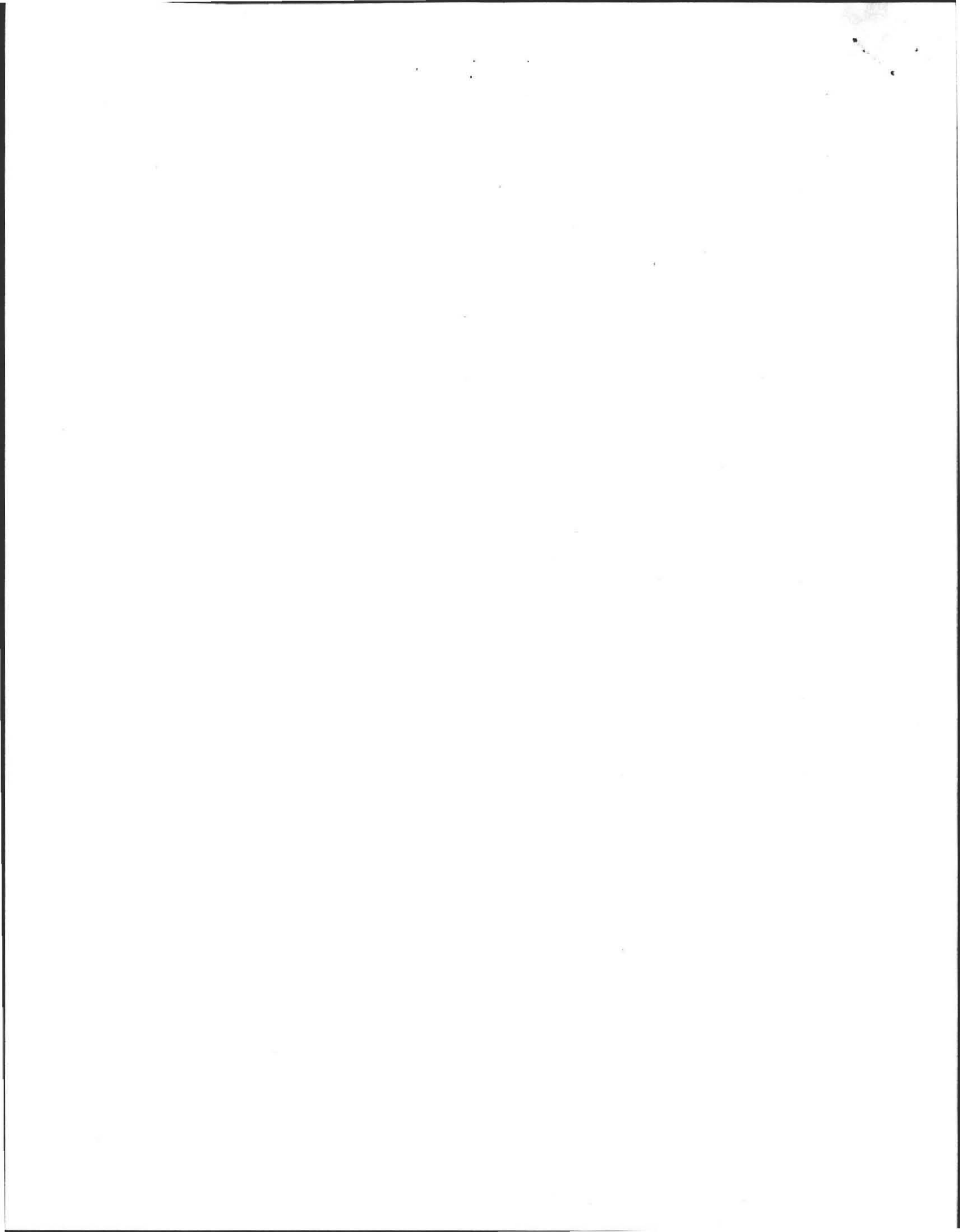
If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on 5/95 (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 *[Signature]* Date 11/22/09





PERCOLATION TEST INFORMATION

TEST PIT TPI-1		TEST PIT TPI-2	
8" OTS LOAM	AP SANDY LOAM 104R 2-2	8" OTS LOAM	AP SANDY LOAM 104R 2-2
4" SANDY SUB SOIL	BW LOAMY SAND 104R 5-4	4" SANDY SOIL	BW LOAMY SAND 104R 5-4
48" SAND FINE TO MED SOME SCLT	C1 LOAMY SAND 2.54 5-4	50" SAND FINE TO MED SOME SCLT	C1 LOAMY SAND 2.5 5-4
64" VARIED CLAY WITH SAND LENSES	C2 LOAM 5.4 4-2	50" VARIED CLAY WITH SAND LENSES	C2 LOAM 5.4 4-2

H2O @ 38" WEIRING 38" MOTTLING 104R 5-8 @ 25" ENHUT 25"
 H2O @ 45" WEIRING 45" MOTTLING 25" 104R 5-8 104R 6-1 ENHUT 25"

DATE: 11-22-04
 ENGR: W.J. SIEMUTA PE/EVAL
 WITNESS: D. ZAROZINSKI BOH
 PERMEABILITY TEST
 PERC @ TPI-1 DEPTH 44" ACTUAL RATE 4.66 MIN/INCH DESIGN RATE 5.0 MIN/INCH CLASS I SOIL 48" SEPARATION REQD PER 310 CMR 15.212

PERC @ TPI-2 DEPTH 52" ACTUAL RATE 2.66 MIN/INCH DESIGN RATE 5.0 MIN/INCH CLASS I SOIL 48" SEPARATION REQD PER 310 CMR 15.212

DESIGN INFORMATION

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 TITLES 5 AND ALL LOCAL BOARD OF HEALTH REGULATIONS

FINISH GRADING TO BE AS SHOWN ON PLANVIEW. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

DESIGN CRITERIA

USE: EXISTING 4 BEDROOM SINGLE FAMILY RESIDENTIAL HOME
 NO DISPOSAL UNIT
 FULL BMT & PARTIAL CRAWL SPACE

DESIGN FLOW: 310 GPM @ 15.203
 REQD. NO GAL BEDROOM x 4 = 44 GALSPAY
 NO DISPOSAL UNIT

SEPTIC TANK: 310 CMR 15.223
 REQD. 490 GALS/DAY x 200% = 980 GALS
 MINIMUM TANK SIZE PERMITTED 1500 GALS
 USE A TANK (2) COMPARTMENT 1500 GAL TANK 10'6" x 5' x 6" TYPICAL TANK 50" FRONT BASE TO INLET INV

LEACHING SYSTEM: DUE TO SOIL CONDITIONS A LEACHFIELD DESIGN IS TO BE USED PER 310 CMR 15.252

EFFECTIVE DEPTH 6" MIN
 EFFECTIVE WIDTH 18"
 EFFECTIVE LENGTH 34'

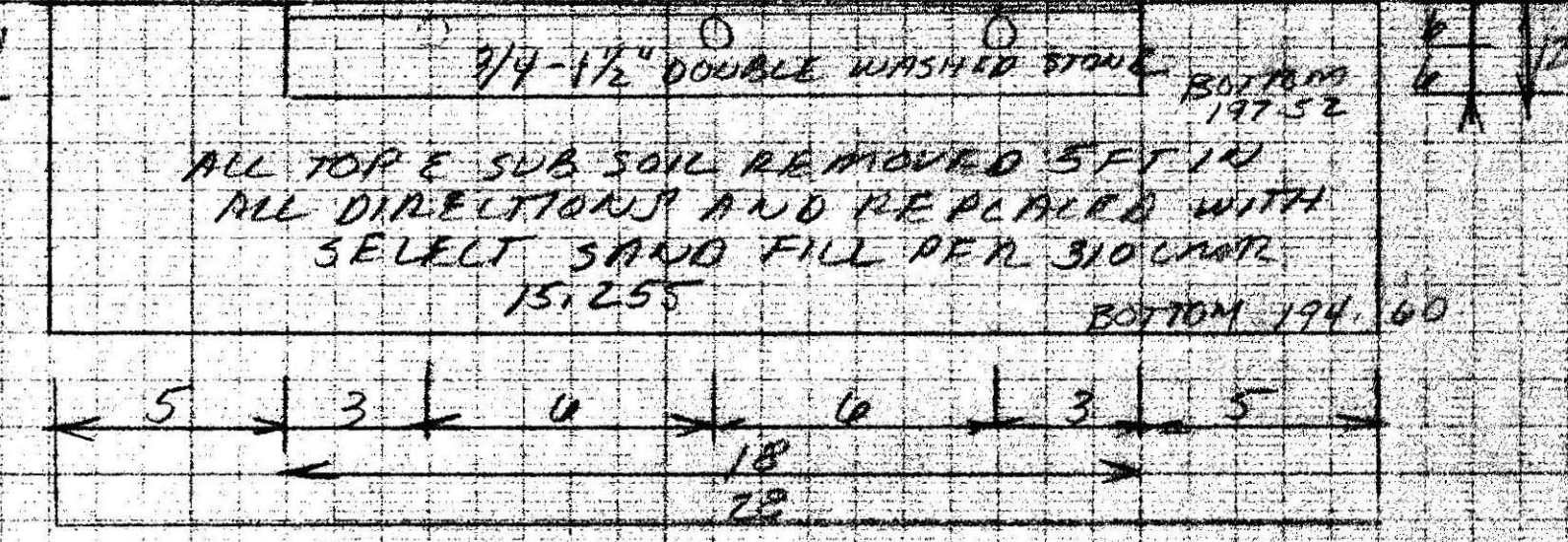
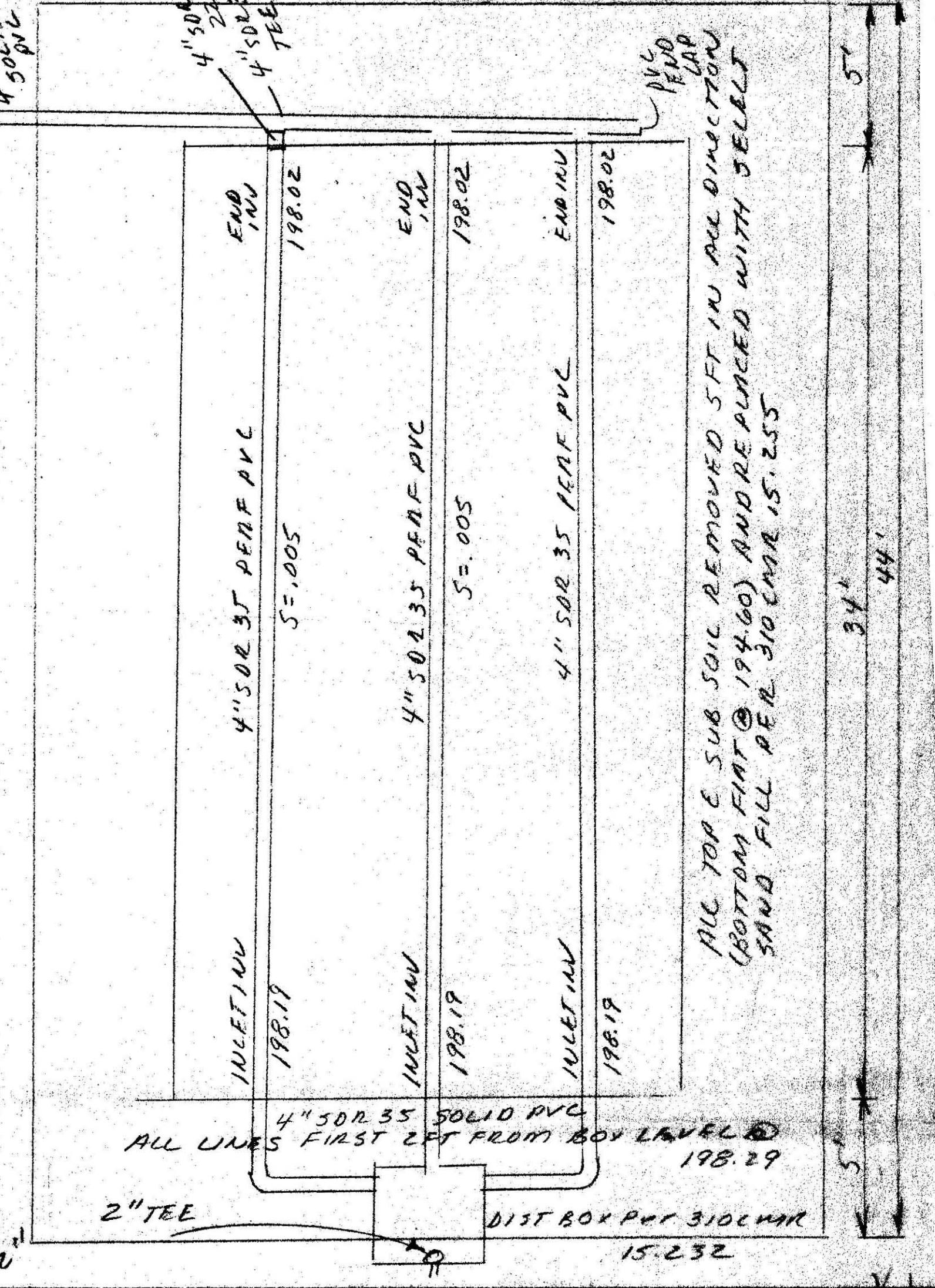
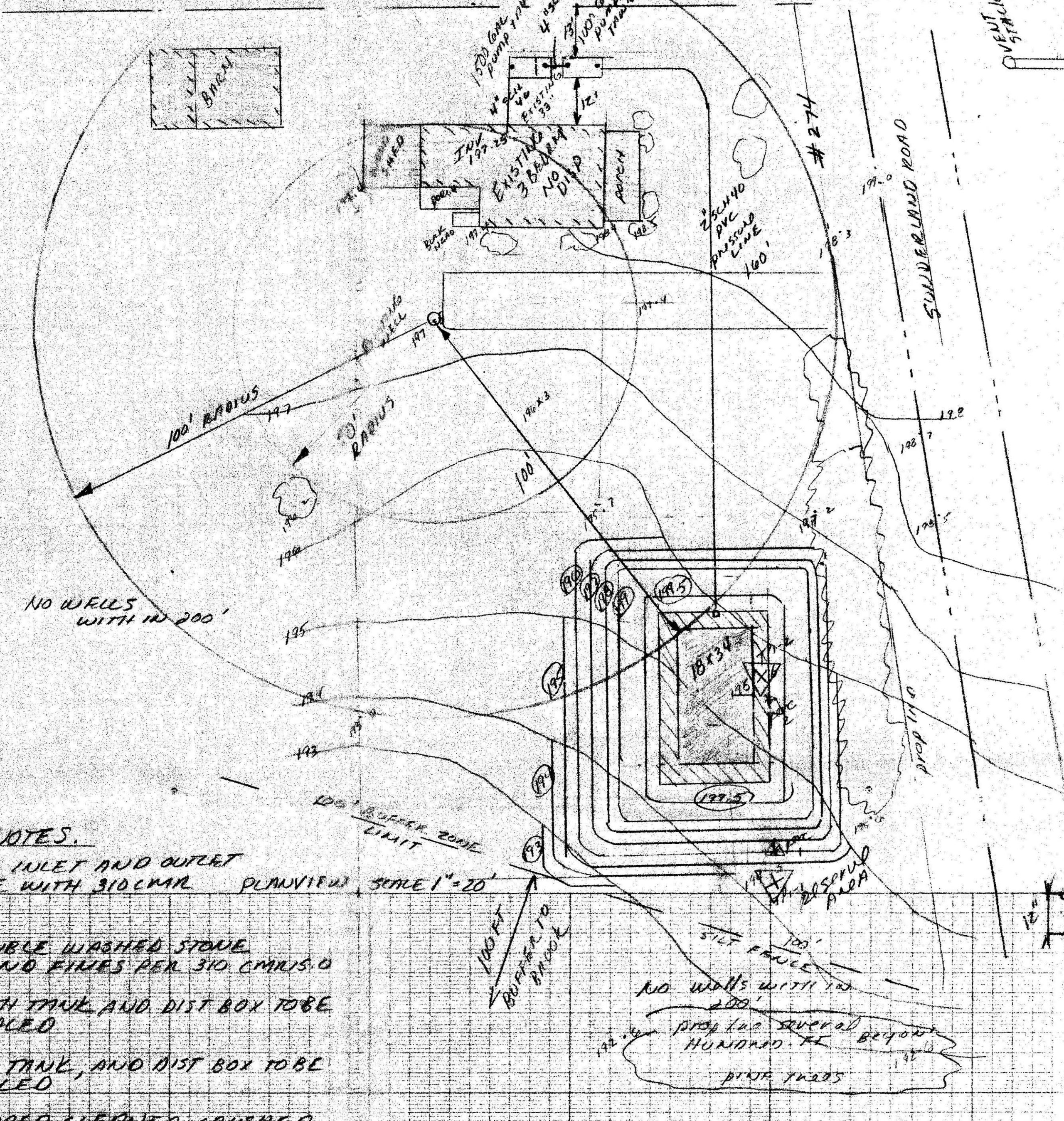
PERMEABILITY 310 CMR 15.242
 PERCOLATION RATE ACTUAL RATES 4.66 MIN/INCH 2.66 MIN/INCH
 DESIGN RATE 5.0 MIN/INCH CLASS I SOIL

DESIGN RATE 5.0 MIN/INCH CLASS I SOIL 48" SEPARATION REQD PER 310 CMR 15.212

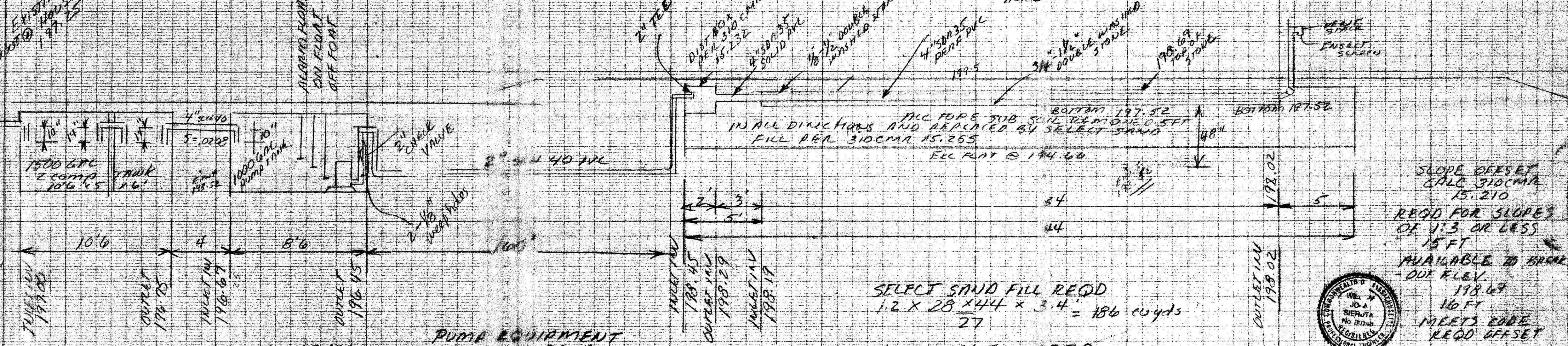
BOTTOM AREA 34' x 18" = 612 FT²
 TOTAL PERMEABILITY 612 FT² x .74 = 452 GALS/DAY
 TBM SET AT SILL ELEVATION OF HOUSE 200.00
 BOTTOM E SIDEWALK AREA .74 GALS/FT²

INSTALLATION NOTES

1. SEPTIC TANK TO HAVE INLET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 SECTIONS 5
2. ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT AND FINES PER 310 CMR 15.0
3. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE ASPHALT ROPE SEALED
4. SEPTIC TANK PUMP TANK, AND DIST BOX TO BE ASPHALT ROPE SEALED
5. OLD TANK TO BE PUMPED, CLEANED, CRUSHED AND SAND FILLED



SEPTIC SYSTEM PROFILE SCALE 1" = 4 FT VERT



PUMP EQUIPMENT

- 1- MEYERS MULTI-PUMP OR EQUAL
- 1- SIMPLEX CONTROLLER
- 1- 101 ALARM UNIT
- 2- 1556MM NO MECH. FLOATS
- 1- CS84 STAINLESS STEEL FLOAT BRACKET
- 2- WATER TIGHT ELECTRICAL BOXES
- 2- 1" SCH 40 ELECTRICAL CONDUITS

ALL ELECTRICAL BY LIC ELECT PER ELECTRICAL CODE.

SELECT SAND FILL REQD 12 x 28 x 44 x 3.4 = 186 cu yds

COMMON FILL REQD 12 x 24 x 4.5 x 2.0 = 27.2

SEPTIC SYSTEM DESIGN FOR
 FRANK J. BUKOSKI
 274 SONDERLAND ROAD
 AMHERST MASS
 ENGR: W.J. SIEMUTA PE
 DATE: DEC 20 2004



William J. Sieruta, P.E.
46 Upland Road
Holyoke, MA. 01040

Board of Health
Town of Amherst
Boltwood Walk
Amherst, MA. 01002
Attn: D. Zarozinski

April 20, 2005004

Subject: As Built Inspection
Frank Bukoski
274 Sunderland Road
Amherst, MA.

An "as built" inspection was completed for the subject septic system. The system is in compliance with 310 CMR 15.0 and local board of health regulations. If you have any questions or need any further information, please do not hesitate to contact me.

Very truly yours,

William J. Sieruta, P.E.

William J. Sieruta, P.E.

(mbs)
2 cc: F. Bukoski
99 East Pleasant Street
Amherst, MA.

WJS:mbs

