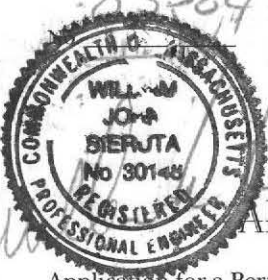


3 Dayton Lane (lot 6)

New System





COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

FEE 100

M 5702 -
CH# 1719

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location <u>LOT #6</u>	Owner's Name <u>M. STOSZ / P ZAHRADNIK</u>
Map/Parcel# <u>DAYTON LANE</u>	Address <u>MARKET HILL RD</u>
Lot# <u>AMHERST MASS</u>	Telephone# <u>AMHERST MASS</u>
Installer's Name <u>EAST COAST CONST (M. STOSZ)</u>	Designer's Name <u>WILLIAM SIERUTA</u>
Address <u>MARKET HILL RD</u>	Address <u>46 UPLAND RD</u>
Telephone# <u>CEL 374-4715</u>	Telephone# <u>HOLYOKE MASS</u>
	<u>413 532 8525</u>

Type of Building RESIDENTIAL HOME Lot Size 123 693 sq. ft.

Dwelling - No. of Bedrooms 3 BEDROOM NO DISPOSAL Garbage grinder ()

Other - Type of Building SINGLE FAMILY No. of persons 6 Showers (), Cafeteria ()

Other Fixtures FULL BMT WITH FOUNDATION DRAINS

Design Flow (min. required) 110 x 3 gpd Calculated design flow 330 Design flow provided 444 gpd

Plan: Date FEB 20 2003 Number of sheets 1 Revision Date -

Title SEPTIC SYSTEM DESIGN FOR M/STOSZ LOT 6 DAYTON LANE

Description of Soil(s) SEE ATTACHED

Soil Evaluator Form No. 11 Name of Soil Evaluator K.C. BOYSEN Date of Evaluation 5/11/98

DESCRIPTION OF REPAIRS OR ALTERATIONS COMPLETE SEPTIC SYSTEM

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed x [Signature] Date 3/16/03

Inspections _____

No. 03-04

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

FEE 100

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: (M. STOSZ) EAST COAST 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. 03-04, dated _____, Approved Design Flow _____ (gpd)

Installer [Signature]

Designer: [Signature] Inspector: [Signature] Date: 2/27/04

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

No. 03-04

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

FEE 100
CH# 1719

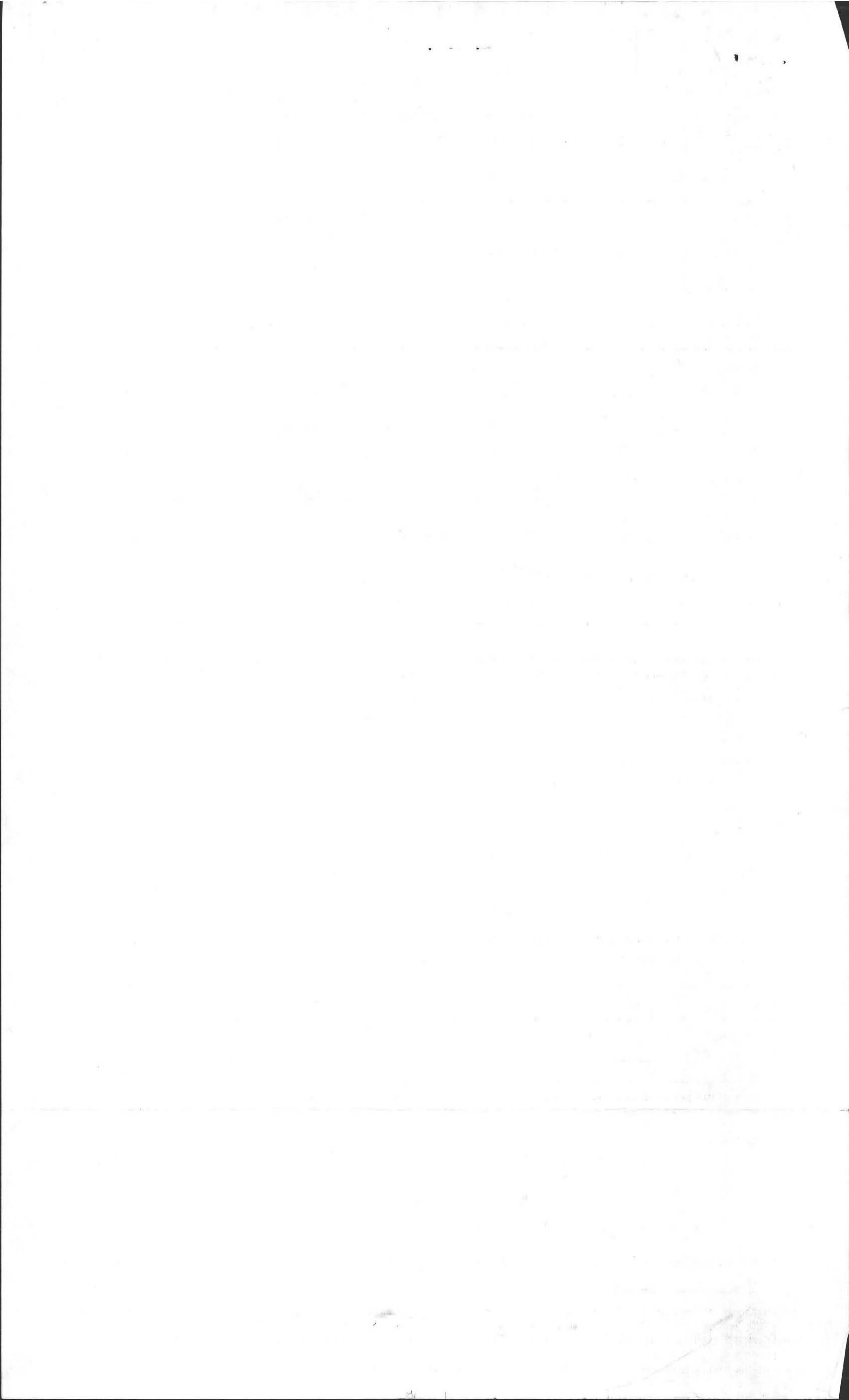
DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct () Repair () Upgrade () Abandon () an individual sewage disposal system

at LOT #6 DAYTON LANE as described in the application for

Disposal System Construction Permit No. 03-04, dated 3/20/03 Received 3/16/03

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



CK# 699
Pd. 200⁰⁰
FOR LOT# 5 + 6

No. _____

Date: 4-13-99

Commonwealth of Massachusetts
, Massachusetts
Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Howard ENU.
Witnessed By: D. Zaccaro

Date: 4-13-99

Location Address or Lot # <u>HORNBESS ROAD</u> <u>LOT # 6</u>	Owner's Name, Address, and Telephone # <u>PAUL-DIANA ZAHRADNIK</u> <u>70 HORNBESS RD</u> <u>253-5048 01002-9872</u>
New Construction <input type="checkbox"/> Repair <input 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) _____

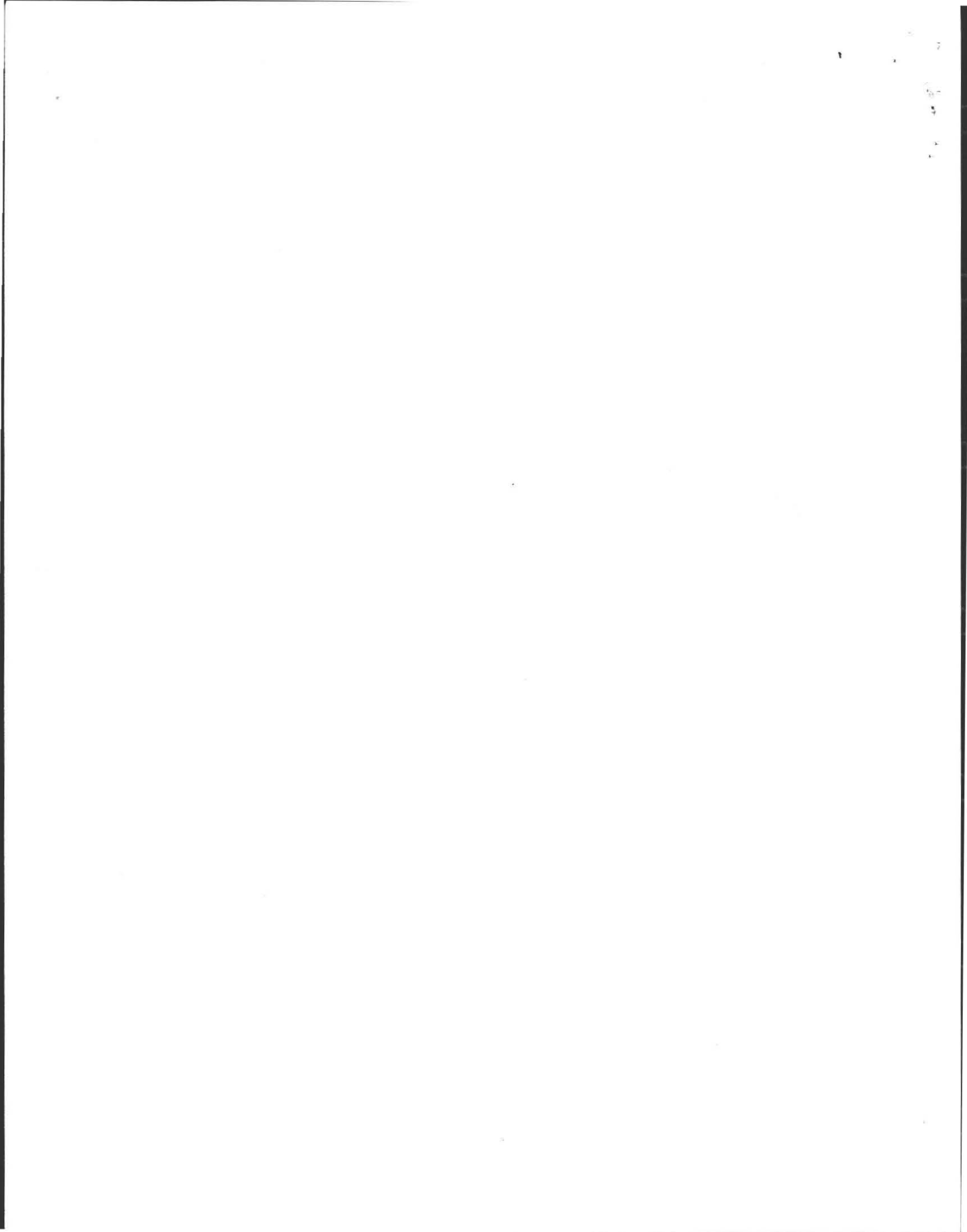
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 4

On-site Review

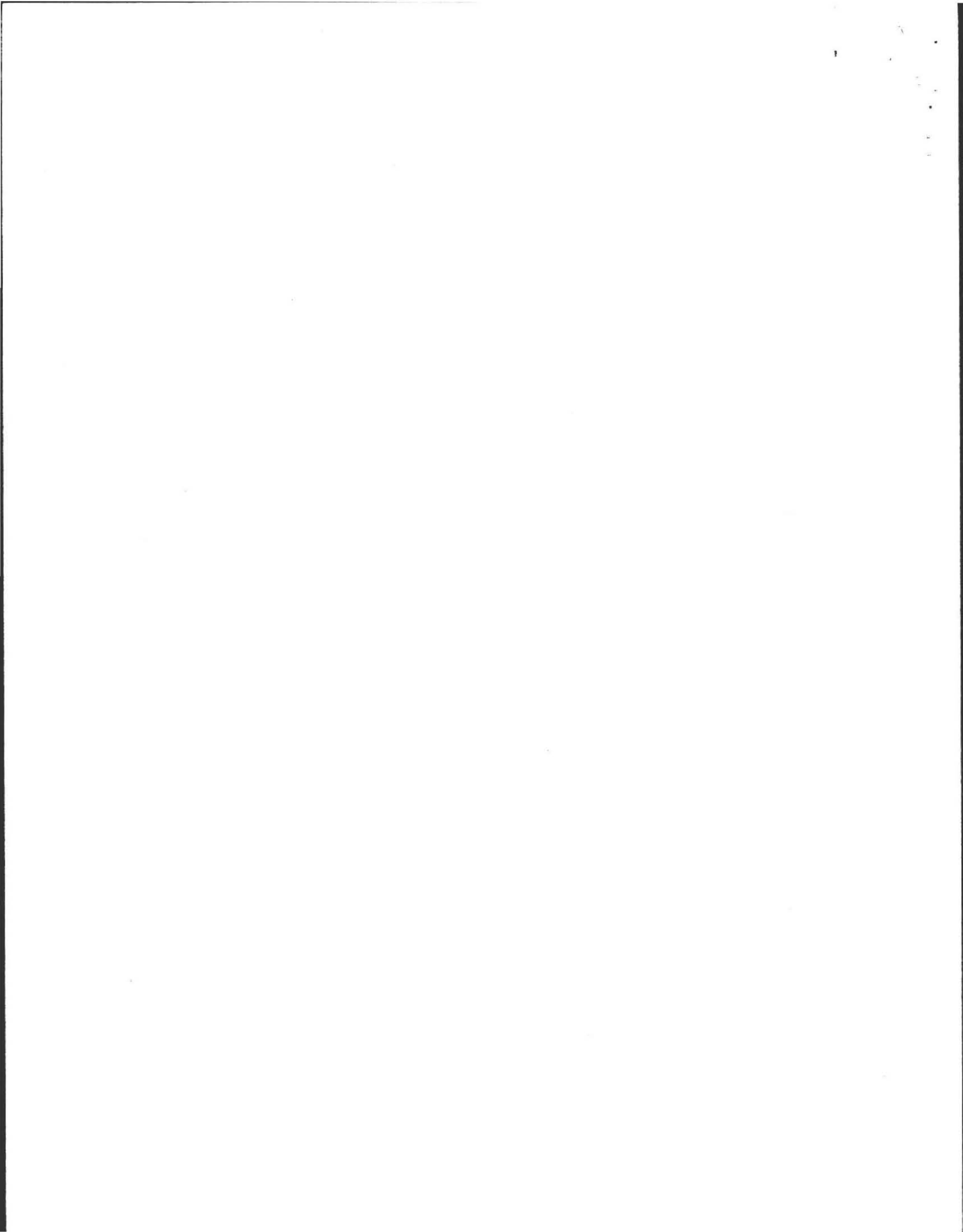
Deep Hole Number 1 Date: _____ Time: _____ Weather: _____
 Location (identify on site plan) _____
 Land Use _____ Slope (%) _____ Surface Stones _____
 Vegetation _____
 Landform _____
 Position on landscape (sketch on the back) _____
 Distances from:
 Open Water Body _____ feet Drainage way _____ feet
 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)
12"	A	SAND Loam	10Y5 2/6		10% gravel Some MS holes 4
120"	C	L.S	2 1/2 Y7.3		

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) _____ Depth to Bedrock: _____
 Depth to Groundwater: Standing Water in the Hole: _____ Weeping from Pit Face: _____
 Estimated Seasonal High Ground Water: _____





Location Address or Lot No. _____

On-site Review

Deep Hole Number 7 Date: _____ Time: _____ Weather: _____
 Location (identify on site plan) _____
 Land Use _____ Slope (%) _____ Surface Stones _____
 Vegetation _____
 Landform _____
 Position on landscape (sketch on the back) _____
 Distances from:
 Open Water Body _____ feet Drainage way _____ 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)
16"	A	SL	10YR 5/6		10% gravel (A) (Same as L 5 + 15) ground loose (C) cobbles stones
100"	C	LS	2.5 7/3		

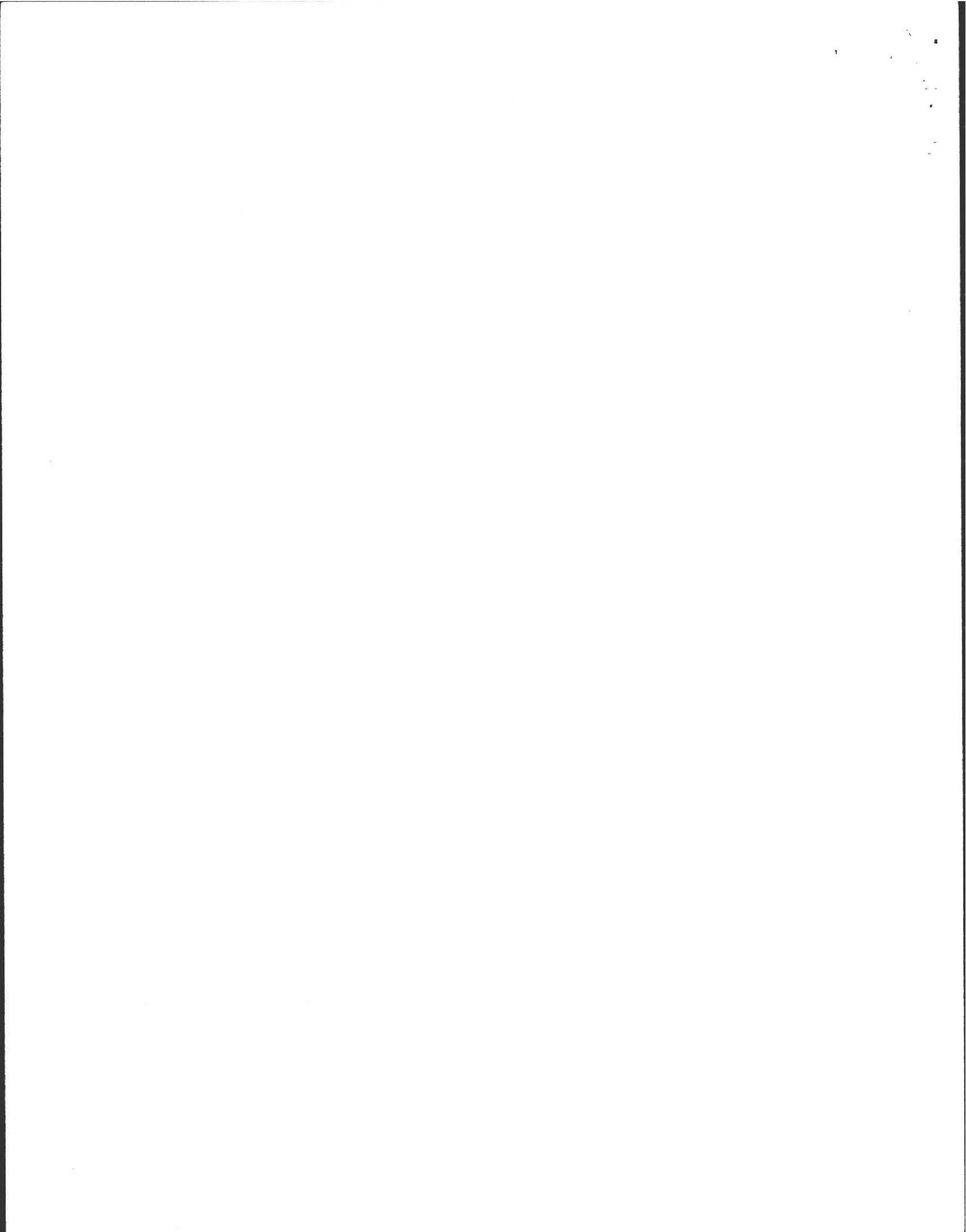
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) _____ Depth to Bedrock: _____

Depth to Groundwater: Standing Water in the Hole: 120" Weeping from Pit Face: _____

Estimated Seasonal High Ground Water: 9'





Location Address or Lot No. 6

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date:		Time:
Observation Hole #	1	2
Depth of Perc	41	45
Start Pre-soak	10:43	11:02
End Pre-soak	10:58	11:17
Time at 12"	10:58	11:19
Time at 9"	11:11	11:30
Time at 6" 5"	11:21	11:46
Time (9"-6")	10	16
Rate Min./Inch	5	5+ 6

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

Site Passed Site Failed

Performed By:

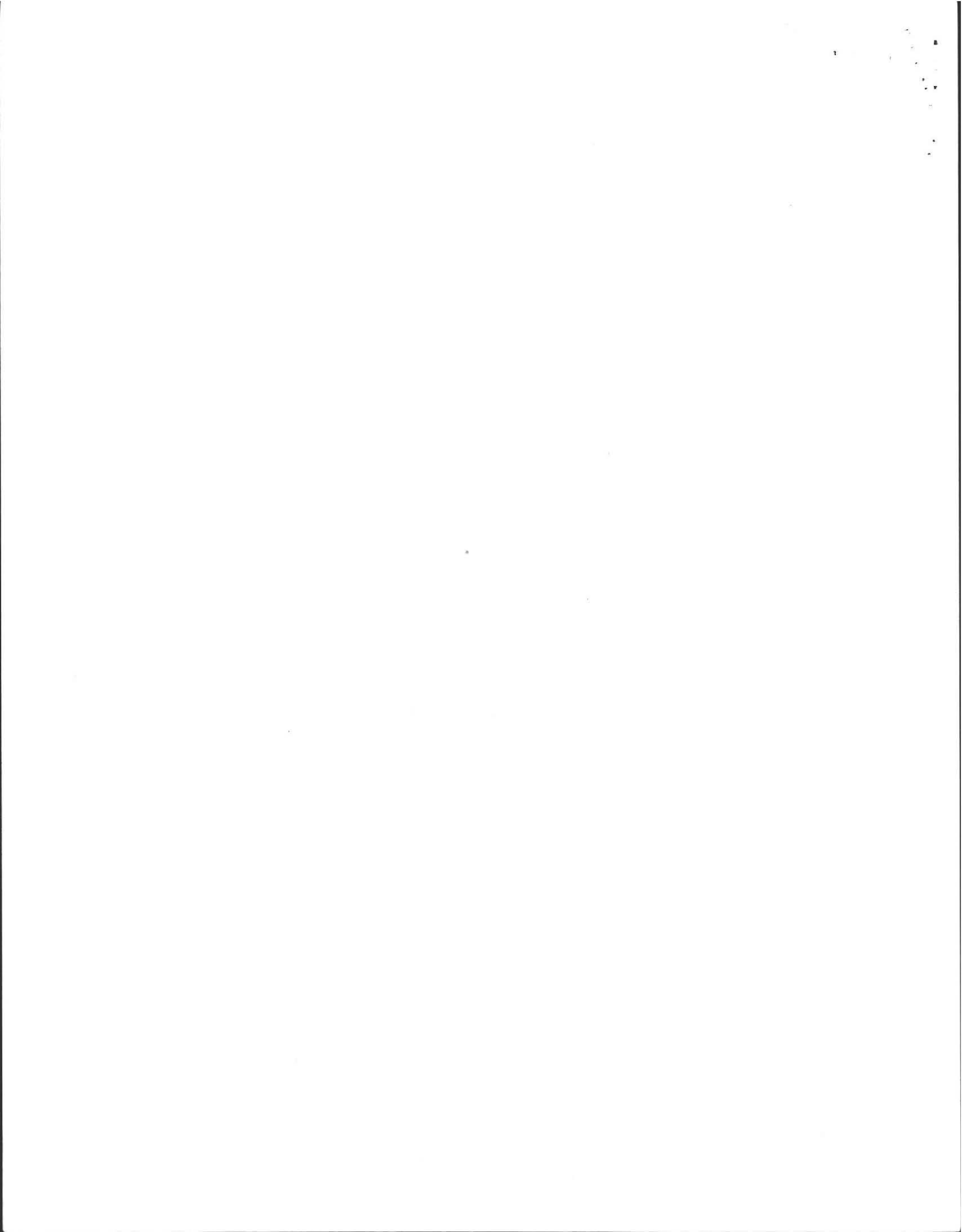
Howard E. ...

Witnessed By:

David Z...

Comments:





Location Address or Lot No. Lot #6, Harkness Road

On-site Review

Deep Hole Number #1+2 Date: 4/13/99 Time: 9:30AM Weather Sunny
 Location (identify on site plan) See attached
 Land Use residential Slope (%) 2 Surface Stones none
 Vegetation white pine
 Landform ground moraine
 Position on landscape (sketch on the back) See attached
 Distances from:
 Open Water Body 100+ feet Drainage way 100+ feet
 Possible Wet Area 100+ feet Property Line 10+ feet
 Drinking Water Well 100+ feet Other

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
TP#1 0-12"	A	SL	10YR5/6	none	granular, loose, 10% Stones
	C	LS	2.5Y7/3	none	granular, loose, 10% Stones
TP#2 0-16"	A	SL	10YR5/6	none	granular, loose, 10% Stones
	C	LS	2.5Y7/3	none	granular, loose, 10% Stones

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: 120" +
 Depth to Groundwater: Standing Water in the Hole: @120" Weeping from Pit Face: none
 Estimated Seasonal High Ground Water: 108"



No. _____

Date: _____

Commonwealth of Massachusetts
Amherst, Massachusetts
Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Jonathan S. Begg
Witnessed By: David Zarazinski

Date: 4/13/99

Location Address or Lot # <u>Lot #6 Harkness Road</u>	Owner's Name, Address, and Telephone # <u>Paul Zohradnik 72 Harkness Road Pelham, MA 01002</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:15,840 Soil Map Unit H₂D

Drainage Class well drained Soil Limitations rapid drainage

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. Lot #6, Harkness Road

COMMONWEALTH OF MASSACHUSETTS
Amherst, Massachusetts

Percolation Test*		
Date:	<u>4/13/99</u>	Time: <u>10:00 A.M.</u>
Observation Hole #	<u>1</u>	<u>2</u>
Depth of Perc	<u>41"</u>	<u>45"</u>
Start Pre-soak	<u>10:43</u>	<u>11:02</u>
End Pre-soak	<u>10:58</u>	<u>11:17</u>
Time at 12"	<u>10:58</u>	<u>11:19</u>
Time at 9"	<u>11:11</u>	<u>11:30</u>
Time at 6"	<u>11:21</u>	<u>11:45</u>
Time (9"-6")	<u>10 minutes</u>	<u>16 minutes</u>
Rate Min./Inch	<u>4 min./inch</u>	<u>6 min./inch</u>

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

Site Passed Site Failed

Performed By: Jonathan S. Beag

Witnessed By: David Zaraghi

Comments: + 25% new construction



Location Address or Lot No. Lot #6, Harkness Road

Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole @120" inches
- Depth weeping from side of observation hole none inches
- Depth to soil mottles none 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

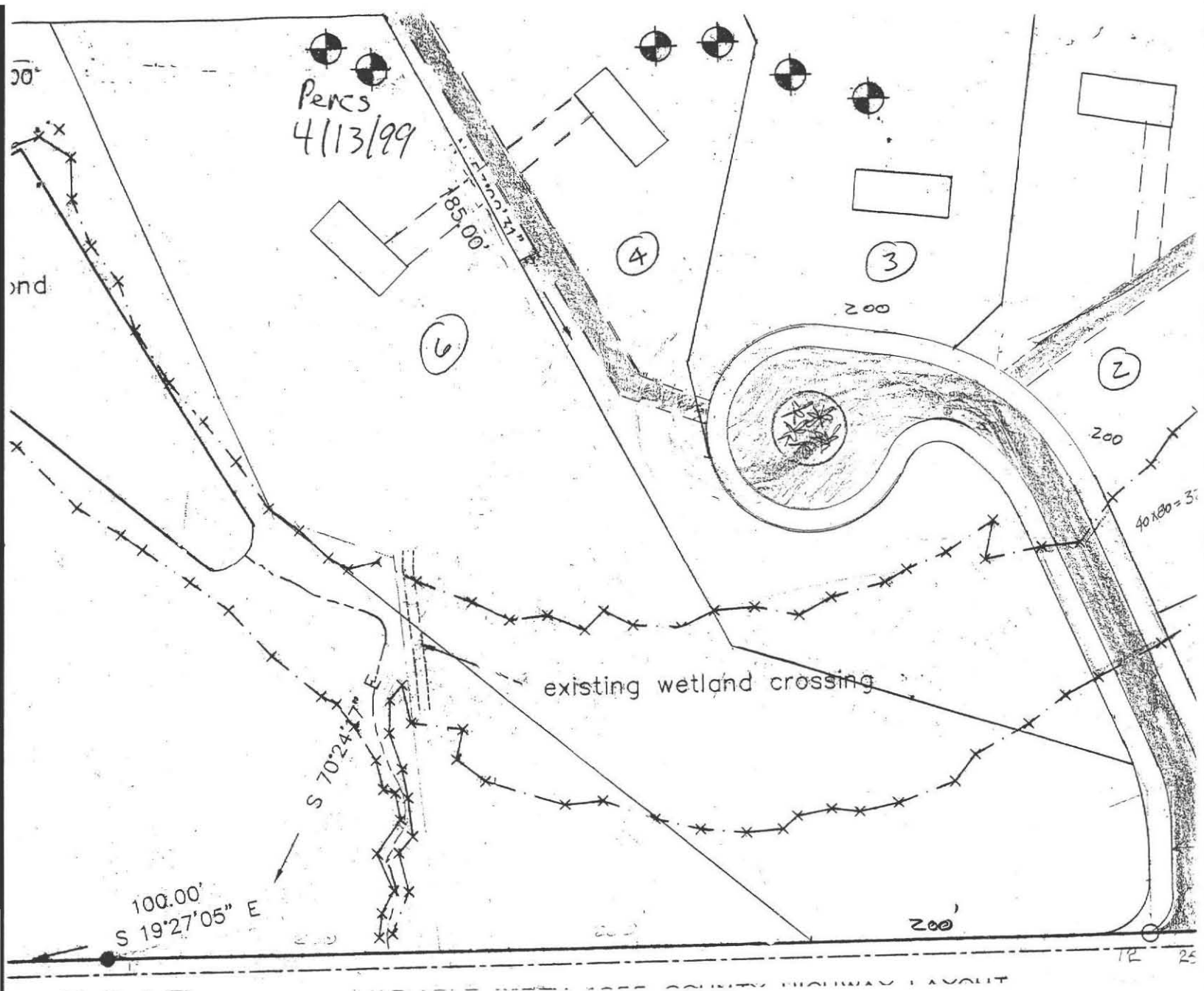
If not, what is the depth of naturally occurring pervious material? _____

Certification

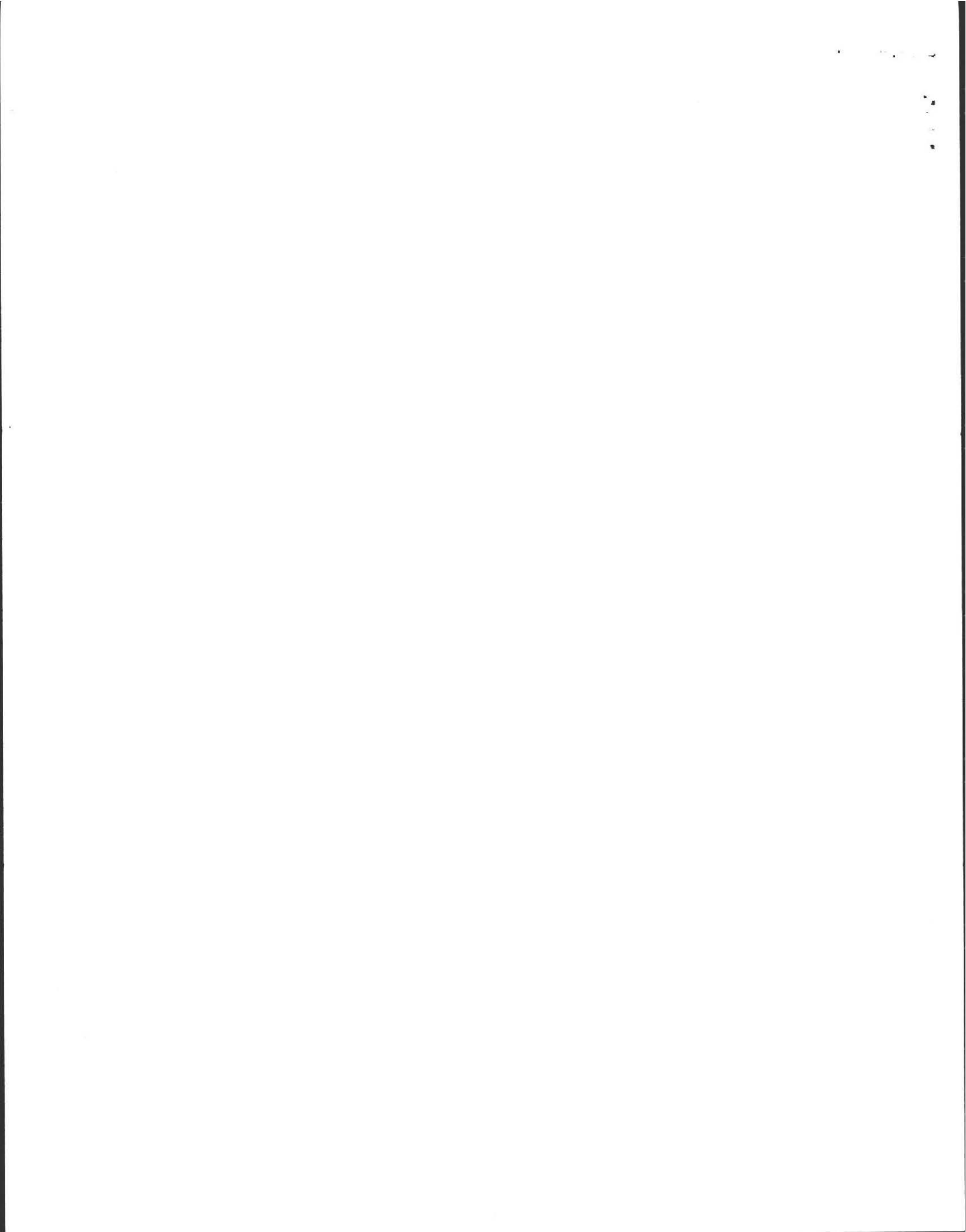
I certify that on 6/97 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature Jonathan S. Beeg Date 4/14/99





Lot #6 Harkness Road, Amherst



RECEIVED JUL 10 1998

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TITLE 5: DRAFT PRINTED SEPTEMBER 20, 1998

APPENDIX 4 PAGE 1

LOCATION: HARKNESS ROAD, AMHERST, MA

DATE: 11 MAY 1998

NAME: ZAHRADNIK

JOB NO.: 98-038

COMMONWEALTH OF MASSACHUSETTS,
MASSACHUSETTS

SITE SUITABILITY ASSESSMENT FOR ON-SITE SEWAGE DISPOSAL

PERFORMED BY: K. CHRISTIAN BOYSEN

CERTIFICATION NUMBER: NOV.'94

WITNESSED BY: DAVID ZAROZINSKI & MIKE LOMBARD, AMHERST HEALTH DEPT.

SITE ADDRESS: HARKNESS ROAD AMHERST, MA 01002 SITES # 5, 6, 7, & 8	OWNER'S ADDRESS: PAUL ZAHRADNIK 72 HARKNESS ROAD PELHAM, MA 01002 1-800-428-2138
ASSESSOR'S MAP: 21B PARCEL: 14 & 21B-14	

NEW CONSTRUCTION REPAIR

GARBAGE GRINDER NO YES

NO. OF BEDROOMS: TO BE DETERMINED

OTHER:

OFFICE REVIEW:

PUBLISHED SOIL SURVEY:

MAP NO.: HAMPSHIRE CENTRAL 16
HAMPSHIRE EASTERN 2

YEAR PUBLISHED: 1979/1985

PUBLICATION SCALE: 1: 15 840

DRAINAGE CLASS:

SOIL LIMITATIONS:

CO. BOOK: HAMPSHIRE CENTRAL AND EASTERN

SOIL MAP UNIT: GLOUCESTER
HINCKLEY

SURFICIAL GEOLOGICAL REPORT:

YEAR PUBLISHED:

PUBLICATION SCALE:

GEOLOGICAL MATERIAL:

LANDFORM:

USGS MAP: BELCHERTOWN

SCALE: 1: 25 000 DATE: 1975

FLOOD INSURANCE RATE MAP PANEL NO. PELHAM #7, AMHERST 10 DATE: 1976/1981

ABOVE 500 YEAR FLOOD PLAIN NO YES

WITHIN 500 YEAR FLOOD PLAIN NO YES

WITHIN 100 YEAR FLOOD NO YES

WETLAND AREA:

NATIONAL WETLAND INVENTORY MAP:

SCALE: 1: 80 000

WETLANDS CONSERVANCY PROGRAM:

CURRENT WATER RESOURCE CONDITIONS

MONTH

RANGE

ABOVE NORMAL

NORMAL

BELOW NORMAL

OTHER REFERENCES REVIEWED:

LSRD6697

LOCATION: HARKNESS ROAD, AMHERST, MA
 ASSESSOR'S #: Map 21B PARCEL 14 & 21B-14

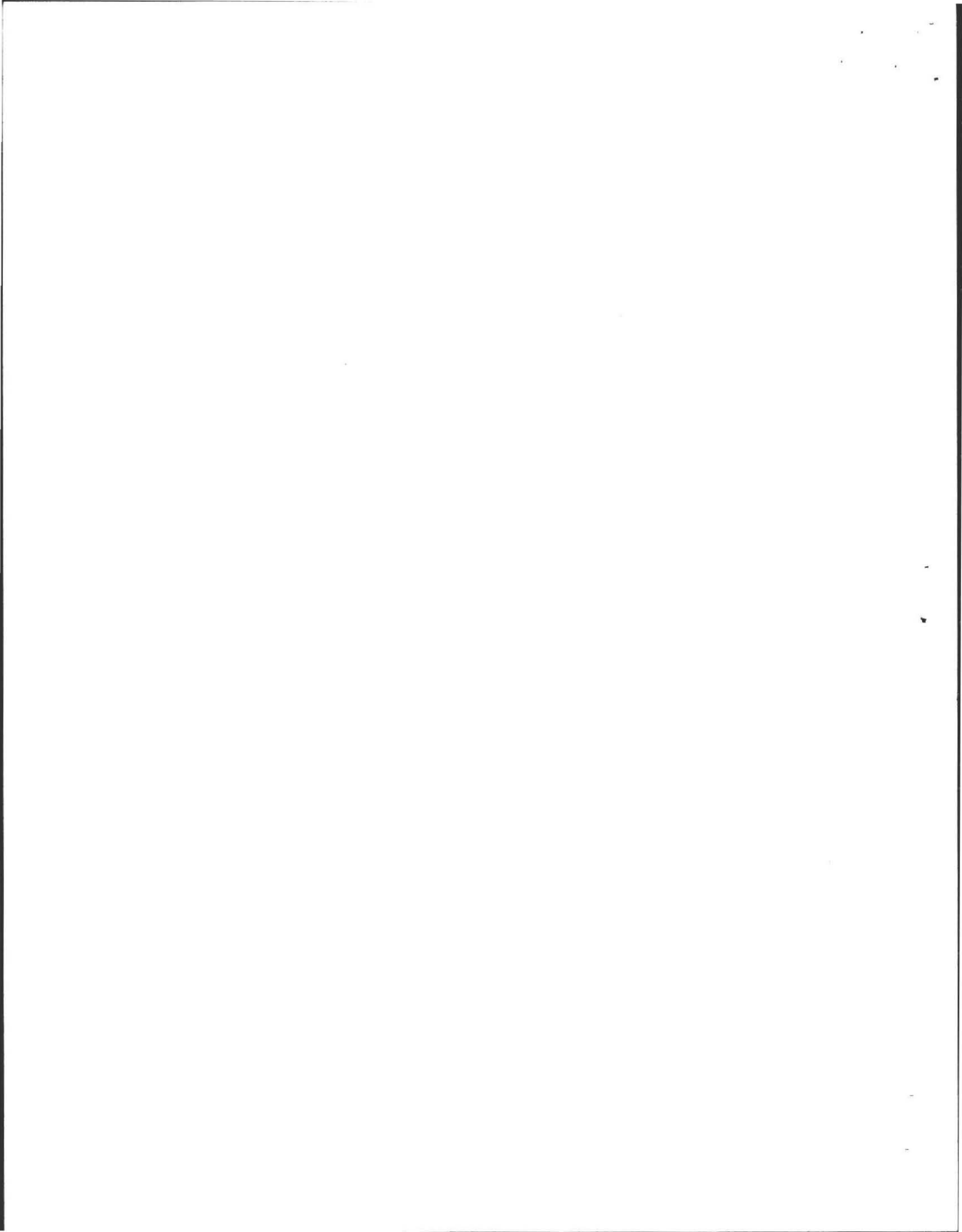
DATE: 11 MAY 1998
 NAME: ZAHRADNIK
 JOB NO.: 98-038

ON-SITE REVIEW

DEEP HOLE NO.: 5A DATE: 5 MAY 1998 TIME: 10:30 WEATHER: 55 DEG. PARTLY CL
 LOCATION: SEE SITE PLAN (ON LOWER TERRACE)
 LAND USE: WOODS SLOPE: 1% SURFACE STONES: NONE
 VEGETATION: PINES AND MAPLES
 LANDFORM: OUTWASH PLAIN
 POSITION ON LANDFORM: @20' ONTO TERRACE
 DISTANCE FROM:
 OPEN WATER BODY: > 150' DRAINAGEWAY: > 150'
 POSSIBLE WET AREA: > 150' PROPERTY LINE: ESTIMATED > 100' (TO BE DIVIDED)
 DRINKING WATER WELL: > 200' OTHER: NONE

DEEP OBSERVATION HOLE LOG					
DEPTH (INCHES)	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
- 11/2-0	O				-FIBROUS DUFF
0-4	A	FINE SANDY LOAM	10YR 2/2	NONE	-GRADUAL BOUNDARY -FRIABLE -MANY FINE ROOTS -5% GRAVEL
4-18	Bw	FINE SANDY LOAM	10YR 4.5/6	NONE	-MANY ROOTS -5% GRAVEL
18-39	BC	FINE SANDY LOAM	10YR 6/4	NONE	-40% GRAVEL TO 2.5" -SOME ROOTS -VERY FRIABLE
39-74	C1	COURSE SAND	5YR 4/6	NONE	-40% SUBANGULAR GRAVEL TO 2.5" AND STONES TO 6"
74-124	C2	VERY FINE SAND & MEDIUM SAND	7.5YR 4/3.5	-93" + = 25% DIFFUSE 10YR 4/6	-MASSIVE -ICE CONTACT -LAYERS OF SAND AND SOME POSSIBLE FINE SANDY LOAM LAYERS

PARENT MATERIAL: GLACIAL OUTWASH DEPTH TO BEDROCK: > 120"
 DEPTH TO GROUNDWATER: STANDING WATER: NONE WEEPING FROM FACE: 97"
 ESTIMATED SEASONAL HIGH GROUNDWATER: 93" (MOTTLES)
 LSRD6697



LAND SOLUTIONS PO BOX 121 SUNDERLAND 01375 413/665-4777

FILE 5: DRAFT PRINT SEPTEMBER 20, 1993

APPENDIX 4 PAGE 2

LOCATION: HARKNESS ROAD, AMHERST, MA
 ASSESSOR'S #: MAP 21B PARCEL 14 & 21B-14

DATE: 11 MAY 1998
 NAME: ZAHRADNIK
 JOB NO.: 98-038

ON-SITE REVIEW

DEEP HOLE NO.: 5B DATE: 11 MAY 1998 TIME: 11:30 WEATHER: 55 DEG. PARTLY CL

LOCATION: SEE SITE PLAN (ON LOWER TERRACE)

LAND USE: WOODS

SLOPE: 1%

SURFACE STONES: NONE

VEGETATION: PINES AND MAPLES

LANDFORM: OUTWASH PLAIN

POSITION ON LANDFORM: @20' ONTO TERRACE

DISTANCE FROM:

OPEN WATER BODY: > 150'

DRAINAGEWAY: > 150'

POSSIBLE WET AREA: > 150'

PROPERTY LINE: ESTIMATED > 100' (TO BE DIVIDED)

DRINKING WATER WELL: > 200'

OTHER: NONE

DEEP OBSERVATION HOLE LOG					
DEPTH (INCHES)	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
- 1 1/2-0	O				-FIBROUS DUFF
0-5 1/2	A	FINE SANDY LOAM	10YR 2/2	NONE	-GRADUAL BOUNDARY -FRIABLE -MANY FINE ROOTS -5% GRAVEL
5 1/2- 28	Bw	FINE SANDY LOAM	10YR 4.5/6	NONE	-MANY ROOTS
28-40	Bc	COURSE LOAMY SAND	10YR 6/4	NONE	-40% GRAVEL TO 2.5" -SOME ROOTS -VERY FRIABLE
40-67	C1	COURSE SAND	5YR 4/6	NONE	-40% SUBANGULAR GRAVEL TO 2.5" AND STONES TO 6"
67-163	C2	VERY FINE SAND	2.5Y 6/4	-@ 120" + COLOR VARIATION -TOO DEEP TO DOCUMENT IN PLACE, BUT COLOR SLIGHTLY REDUCED	-MASSIVE -ICE CONTACT -LAYERS OF SAND AND SOME POSSIBLE FINE SANDY LOAM LAYERS

PARENT MATERIAL: GLACIAL OUTWASH

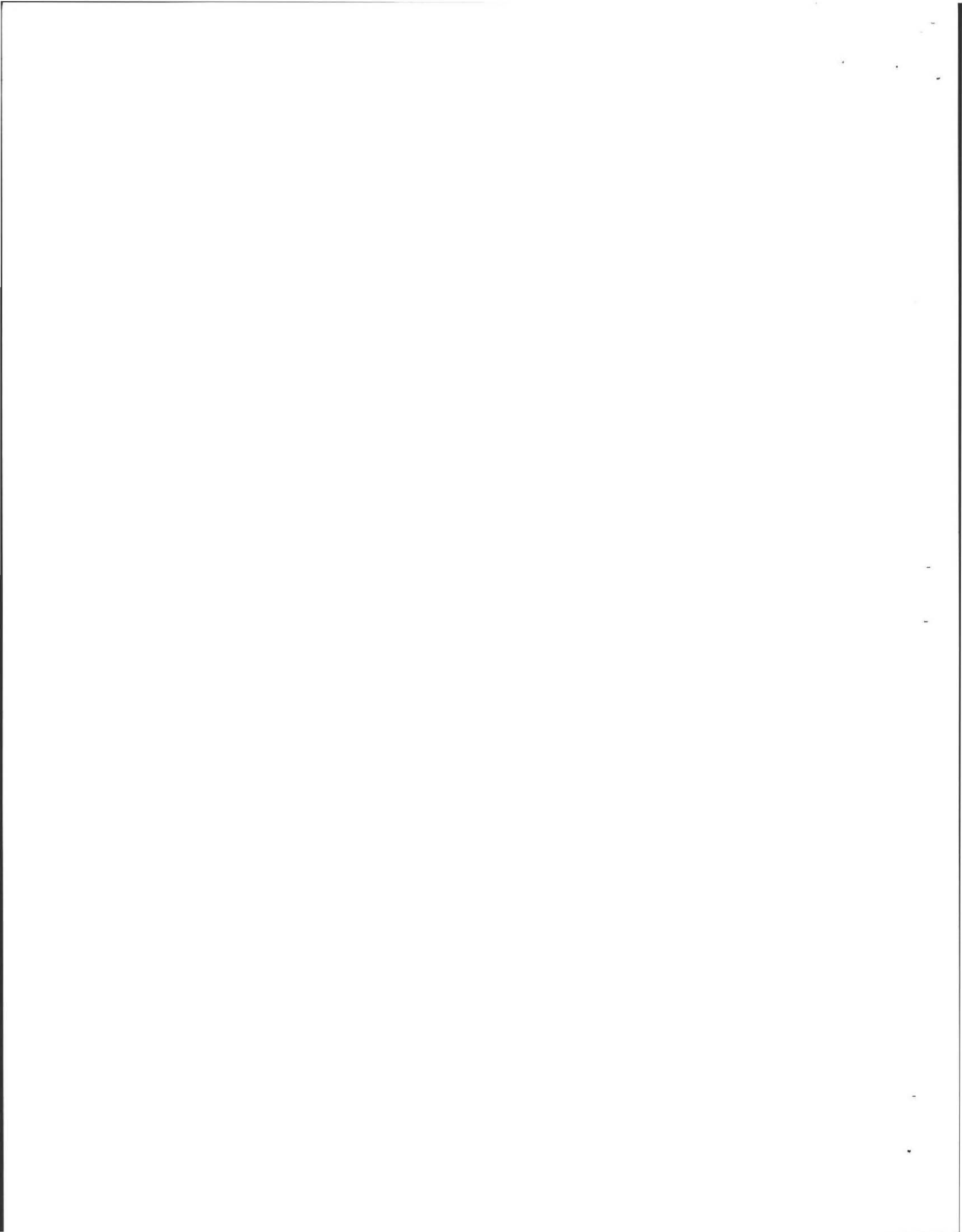
DEPTH TO BEDROCK: > 163"

DEPTH TO GROUNDWATER: STANDING WATER: NONE

WEEPING FROM FACE: 136"

ESTIMATED SEASONAL HIGH GROUNDWATER: 120" COLOR VARIATION- SLIGHTLY REDUCED

LSRD6697



LOCATION: HARKNESS ROAD, AMHERST, MA
 ASSESSOR'S #: MAP 21B PARCEL 14 AND 21B-14

DATE: 11 MAY 1998
 NAME: ZAHRADNIK
 JOB NO. 98-038

TABLE DETERMINATION FOR SEASONAL HIGH WATER

METHOD USED:

	DEPTH OBSERVED STANDING IN OBSERVATION HOLE	_____ INCHES
	DEPTH WEeping FROM SIDE OF OBSERVATION HOLE	_____ INCHES
X	DEPTH TO SOIL MOTTLES	93" INCHES
	GROUND WATER ADJUSTMENT	_____ FEET

INDEX WELL NO.	READING DATE	INDEX WELL LEVEL
ADJUSTMENT FACTOR	ADJUSTED GROUND WATER LEVEL	


PERCOLATION TEST		
DATE: 11 MAY 1998	TIME: 1:30	TIME: 1:45
OBSERVATION HOLE NO.:	5A	5B
DEPTH OF PERC:	47 & 18	42 & 18
START PRE-SOAK	1:30	1:45
END PRE-SOAK	1:45	
TIME @ 12"	1:56	25 GAL < 15 MINUTES
TIME @ 9"	2:01	
TIME @ 6"	2:08	
TIME (9"-6")	7 MINUTES	
RATE MIN/INCH	2 1/3 MINUTES PER INCH	15 SECONDS PER INCH

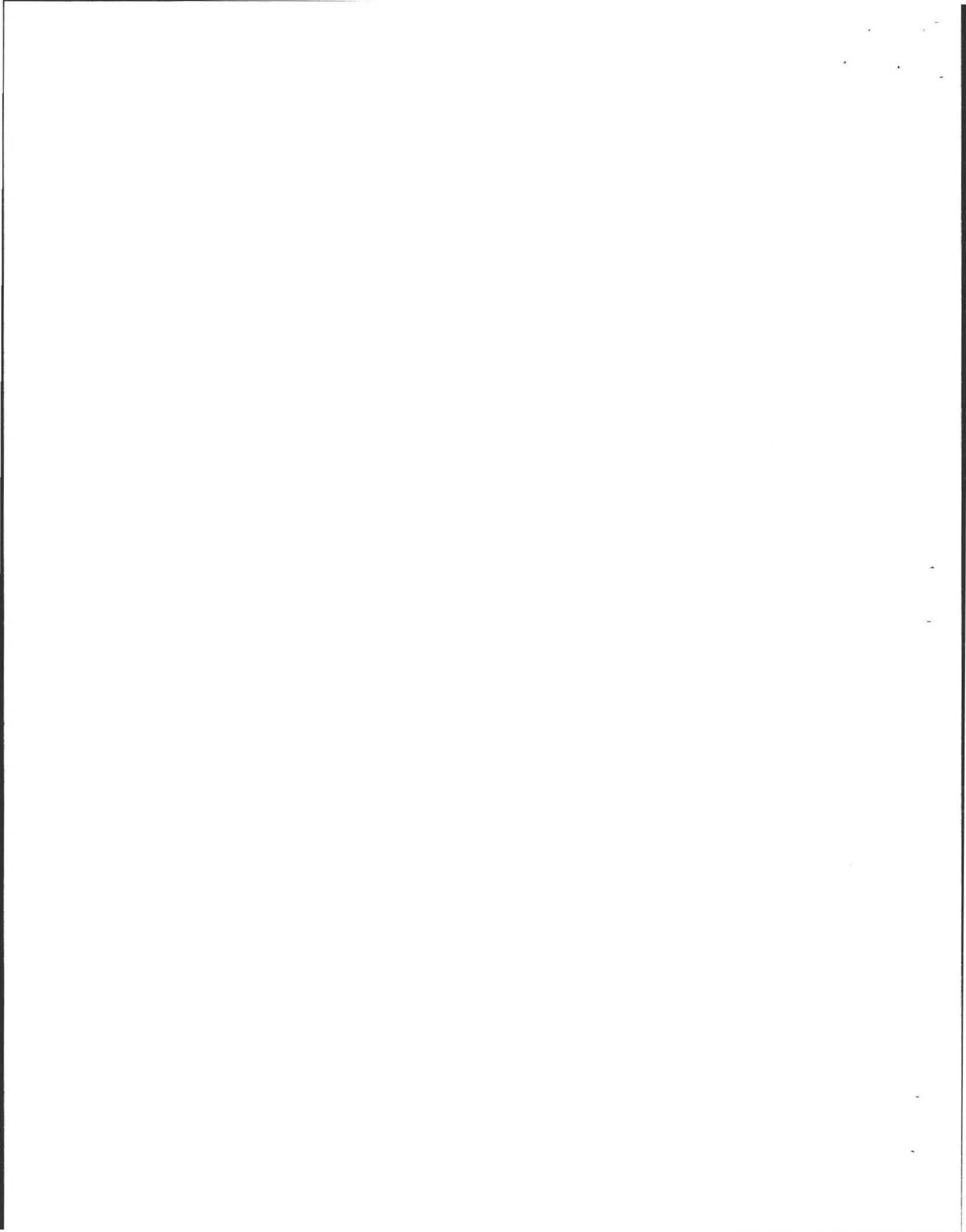
DESIGN RATE: 5 MINUTES/INCH 5 MINUTES PER INCH

SITE SUITABILITY ASSESSMENT: X SITE PASSED SITE FAILED
 ADDITIONAL TESTING NEEDED: NONE

PERFORMED BY: K. CHRISTIAN BOYSEN CERTIFICATION NO. NOV. '94
 WITNESSED BY: DAVID ZAROZINSKI AND MICHAEL LOMBARD, AMHERST HEALTH DEPARTMENT

I CERTIFY ON NOV. '94 I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018(2).
 LSRD6697

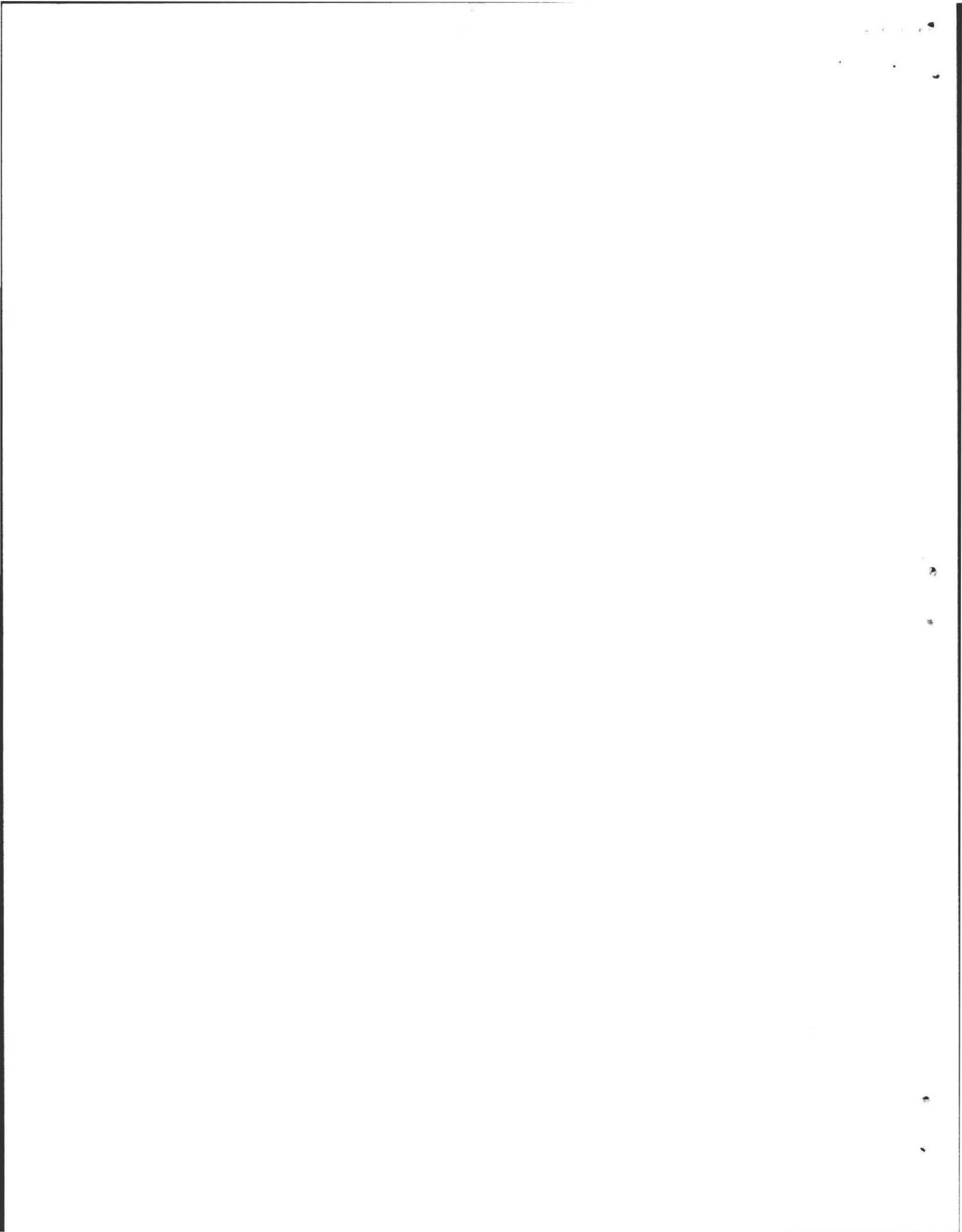




TIES TO MARKED POINTS - DEEP HOLES 6A & 6B

6A (4" MAPLE) 6B (10" PINE)

DH 6A	28'	12'
PERC 6A	46'	25'
DH 6B	35'	60'
PERC 6B	56'	87'



LOCATION: HARKNESS ROAD, AMHERST, MA

DATE: 11 MAY 1998

NAME: ZAHRADNIK

JOB NO.: 98-038

COMMONWEALTH OF MASSACHUSETTS,
MASSACHUSETTS

SITE SUITABILITY ASSESSMENT FOR ON-SITE SEWAGE DISPOSAL

PERFORMED BY: K. CHRISTIAN BOYSEN

CERTIFICATION NUMBER: NOV.'94

WITNESSED BY: DAVID ZAROZINSKI & MIKE LOMBARD, AMHERST HEALTH DEPT.

SITE ADDRESS

HARKNESS ROAD
AMHERST, MA 01002
SITES # 5, 6, 7, & 8

OWNER'S ADDRESS:

PAUL ZAHRADNIK
72 HARKNESS ROAD
PELHAM, MA 01002
1-800-428-2188

ASSESSOR'S MAP: 21B PARCEL: 14 & 21B-14

NEW CONSTRUCTION REPAIR

GARBAGE GRINDER NO YES

NO. OF BEDROOMS: TO BE DETERMINED

OTHER:

OFFICE REVIEW:

PUBLISHED SOIL SURVEY:

MAP NO.: HAMPSHIRE CENTRAL 16
HAMPSHIRE EASTERN 2

YEAR PUBLISHED: 1979/1985

PUBLICATION SCALE: 1: 15 840

DRAINAGE CLASS:

SOIL LIMITATIONS:

CO. BOOK: HAMPSHIRE CENTRAL AND EASTERN

SOIL MAP UNIT: GLOUCESTER
HINCKLEY

SURFICIAL GEOLOGICAL REPORT:

YEAR PUBLISHED:

PUBLICATION SCALE:

GEOLOGICAL MATERIAL:

LANDFORM:

USGS MAP: BELCHERTOWN

SCALE: 1: 25 000 DATE: 1975

FLOOD INSURANCE RATE MAP PANEL NO. PELHAM #7, AMHERST 10 DATE: 1976/1981

ABOVE 500 YEAR FLOOD PLAIN		NO	X	YES
WITHIN 500 YEAR FLOOD PLAIN	X	NO		YES
WITHIN 100 YEAR FLOOD	X	NO		YES

WETLAND AREA:

NATIONAL WETLAND INVENTORY MAP:

SCALE: 1: 80 000

WETLANDS CONSERVANCY PROGRAM:

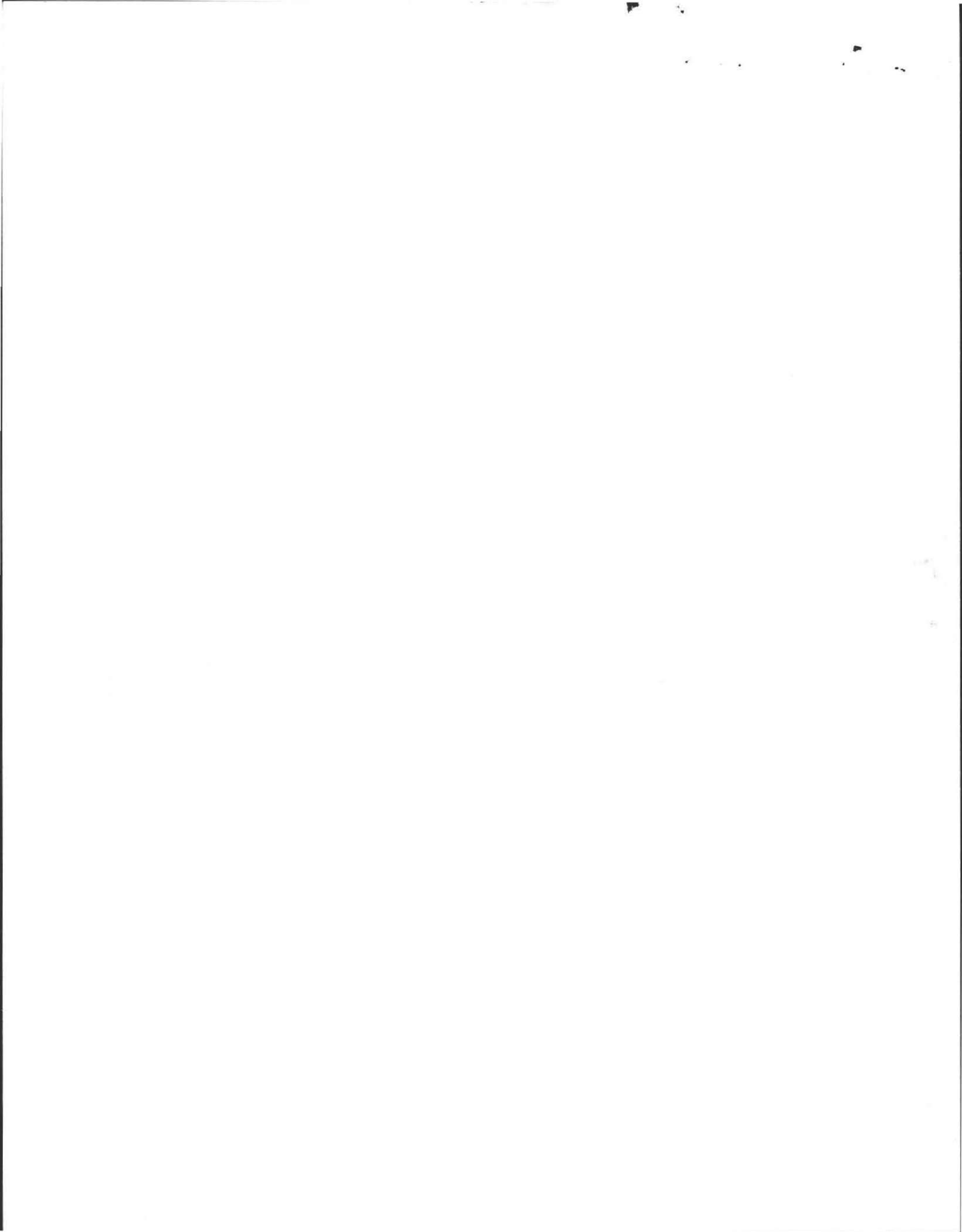
CURRENT WATER RESOURCE CONDITIONS

MONTH

RANGE ABOVE NORMAL NORMAL BELOW NORMAL

OTHER REFERENCES REVIEWED:

LSRD6697



LAND SOLUTIONS PO BOX 121 SUNDERLAND 01375 413/665-4777

TITLE 5: DRAFT PRINT SEPTEMBER 20, 1993

APPENDIX 4 PAGE 2

LOCATION: HARKNESS ROAD, AMHERST, MA
ASSESSOR'S #: Map 21B PARCEL 14 & 21B-14

DATE: 11 MAY 1998
NAME: ZAHRADNIK
JOB NO.: 98-038

ON-SITE REVIEW

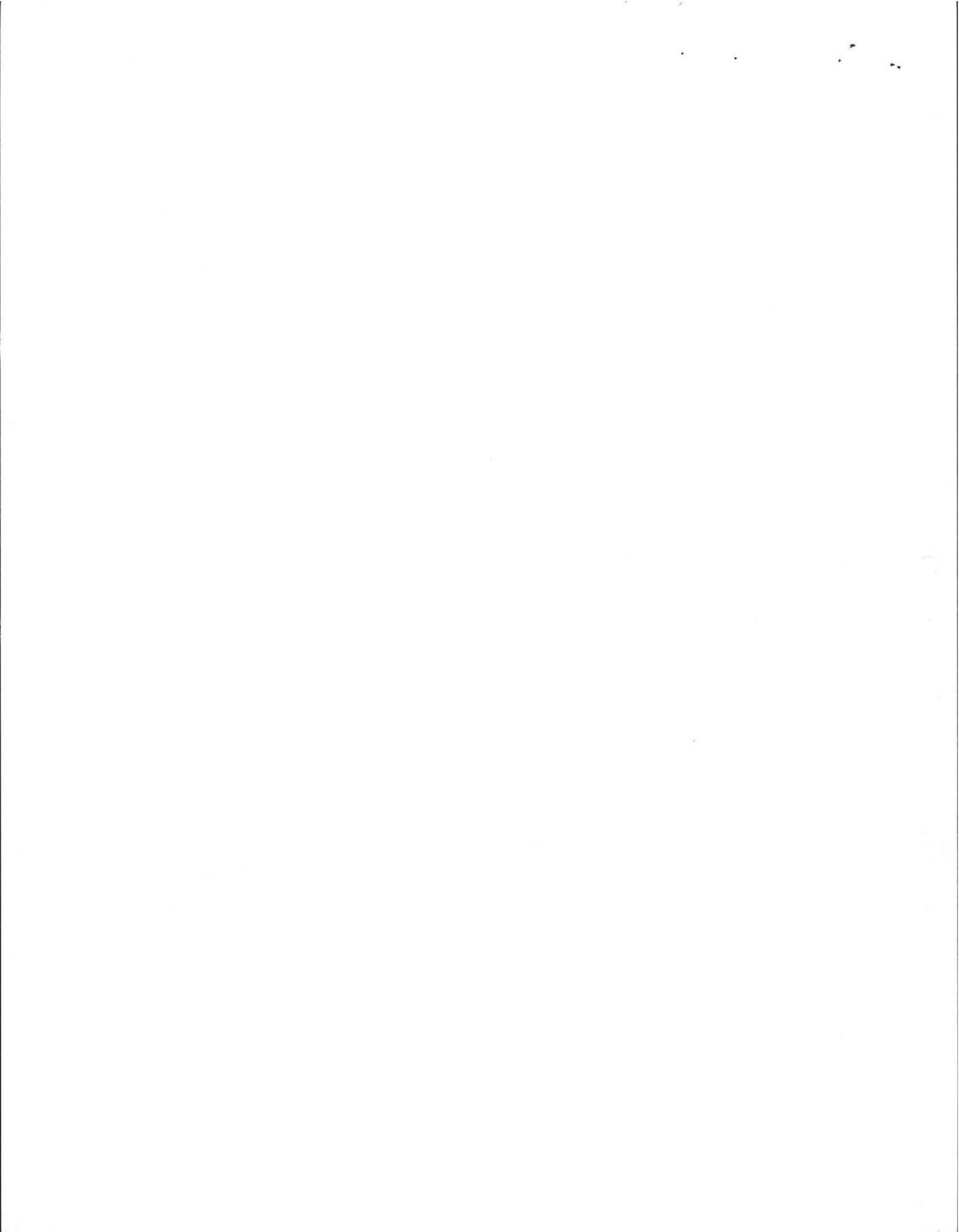
DEEP HOLE NO.: 5A DATE: 5 MAY 1998 TIME: 10:30 WEATHER: 55 DEG. PARTLY CL
LOCATION: SEE SITE PLAN (ON LOWER TERRACE)
LAND USE: WOODS SLOPE: 1% SURFACE STONES: NONE
VEGETATION: PINES AND MAPLES
LANDFORM: OUTWASH PLAIN
POSITION ON LANDFORM: @20' ONTO TERRACE
DISTANCE FROM:

OPEN WATER BODY: > 150' DRAINAGEWAY: > 150'
POSSIBLE WET AREA: > 150' PROPERTY LINE: ESTIMATED > 100' (TO BE DIVIDED)
DRINKING WATER WELL: > 200' OTHER: NONE

DEEP OBSERVATION HOLE LOG					
DEPTH (INCHES)	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
- 11/2-0	O				-FIBROUS DUFF
0-4	A	FINE SANDY LOAM	10YR 2/2	NONE	-GRADUAL BOUNDARY -FRIABLE -MANY FINE ROOTS -5% GRAVEL
4-18	Bw	FINE SANDY LOAM	10YR 4.5/6	NONE	-MANY ROOTS -5% GRAVEL
18-39	BC	FINE SANDY LOAM	10YR 6/4	NONE	-40% GRAVEL TO 2.5" -SOME ROOTS -VERY FRIABLE
39-74	C1	COURSE SAND	5YR 4/6	NONE	-40% SUBANGULAR GRAVEL TO 2.5" AND STONES TO 6"
74-124	C2	VERY FINE SAND & MEDIUM SAND	7.5YR 4/3.5	-93"+=25% DIFFUSE 10YR 4/6	-MASSIVE -ICE CONTACT -LAYERS OF SAND AND SOME POSSIBLE FINE SANDY LOAM LAYERS

PARENT MATERIAL: GLACIAL OUTWASH DEPTH TO BEDROCK: > 120"
DEPTH TO GROUNDWATER: STANDING WATER: NONE WEeping FROM FACE: 97"
ESTIMATED SEASONAL HIGH GROUNDWATER: 93" (MOTTLES)

LSRD6697



LAND SOLUTIONS PO BOX 121 SUNDERLAND 01375 413/665-4777

TITLE 5: DRAFT PRINT SEPTEMBER 20, 1993

APPENDIX 4 PAGE 2

LOCATION: HARKNESS ROAD, AMHERST, MA
ASSESSOR'S #: MAP 21B PARCEL 14 & 21B-14

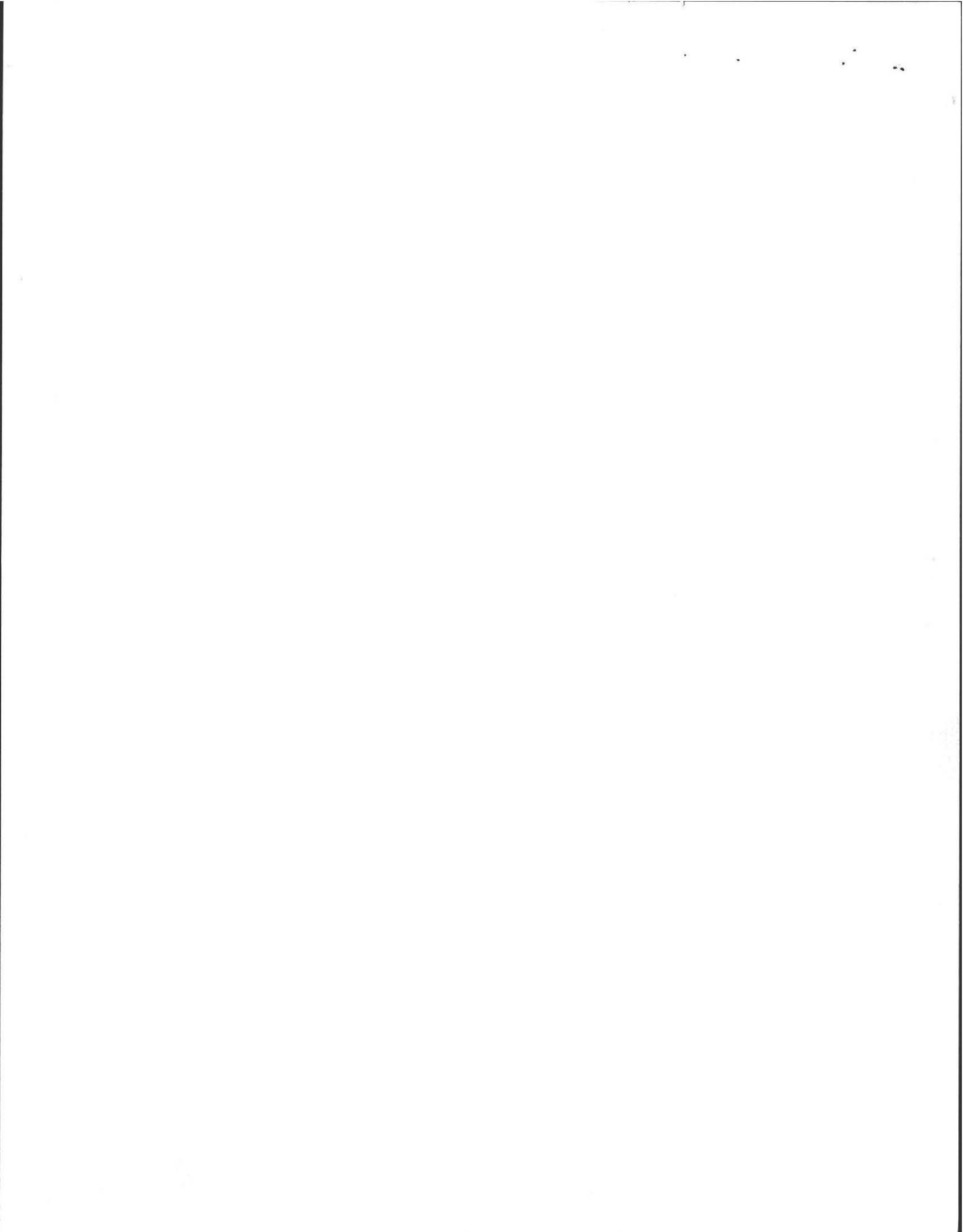
DATE: 11 MAY 1998
NAME: ZAHRADNIK
JOB NO.: 98-038

ON-SITE REVIEW

DEEP HOLE NO.: 5B DATE: 11 MAY 1998 TIME: 11:30 WEATHER: 55 DEG. PARTLY CL
LOCATION: SEE SITE PLAN (ON LOWER TERRACE)
LAND USE: WOODS SLOPE: 1% SURFACE STONES: NONE
VEGETATION: PINES AND MAPLES
LANDFORM: OUTWASH PLAIN
POSITION ON LANDFORM: @20' ONTO TERRACE
DISTANCE FROM:
 OPEN WATER BODY: > 150' DRAINAGEWAY: > 150'
 POSSIBLE WET AREA: > 150' PROPERTY LINE: ESTIMATED > 100' (TO BE DIVIDED)
 DRINKING WATER WELL: > 200' OTHER: NONE

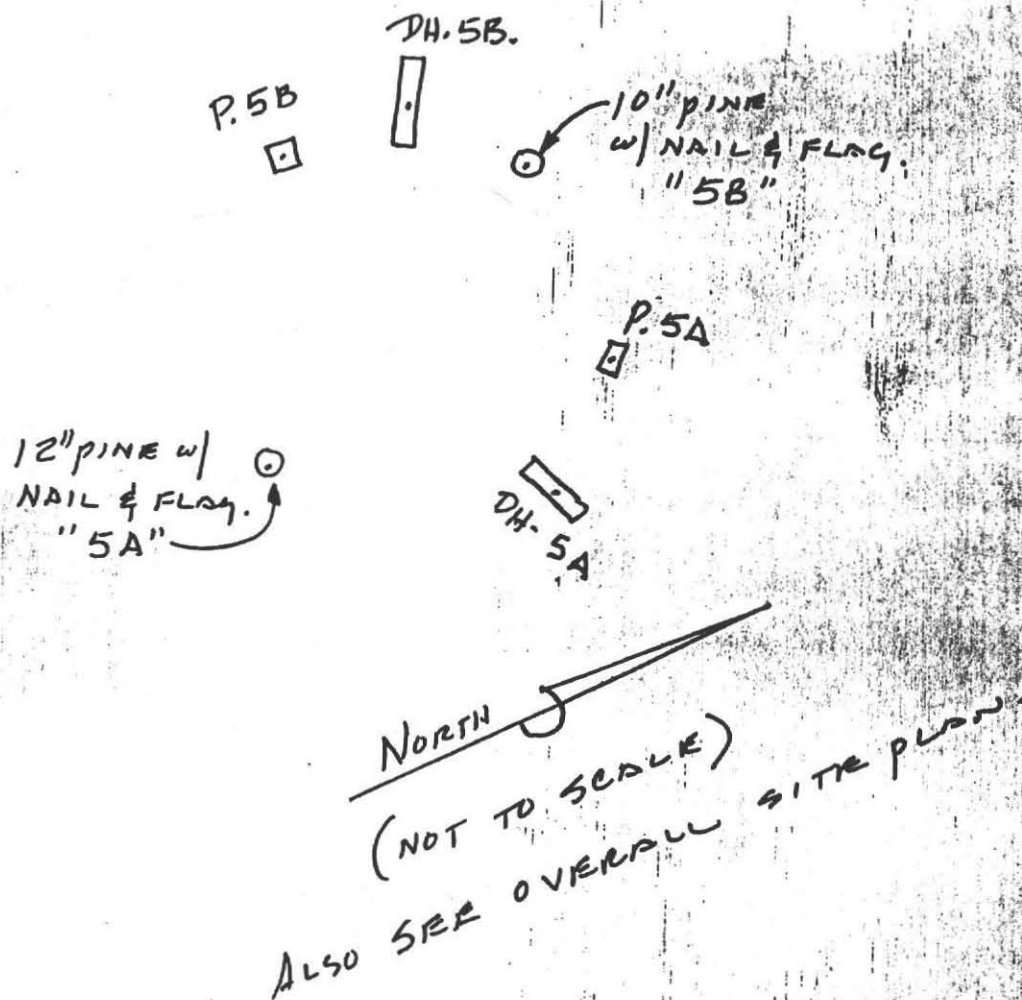
DEEP OBSERVATION HOLE LOG					
DEPTH (INCHES)	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-1 1/2	O				-FIBROUS DUFF
0-5 1/2	A	FINE SANDY LOAM	10YR 2/2	NONE	-GRADUAL BOUNDARY -FRIABLE -MANY FINE ROOTS -5% GRAVEL
5 1/2-28	Bw	FINE SANDY LOAM	10YR 4.5/6	NONE	-MANY ROOTS
28-40	BC	COURSE LOAMY SAND	10YR 6/4	NONE	-40% GRAVEL TO 2.5" -SOME ROOTS -VERY FRIABLE
40-67	C1	COURSE SAND	5YR 4/6	NONE	-40% SUBANGULAR GRAVEL TO 2.5" AND STONES TO 6"
67-163	C2	VERY FINE SAND	2.5Y 6/4	-@ 120"+COLOR VARIATION -TOO DEEP TO DOCUMENT IN PLACE, BUT COLOR SLIGHTLY REDUCED	-MASSIVE -ICE CONTACT -LAYERS OF SAND AND SOME POSSIBLE FINE SANDY LOAM LAYERS

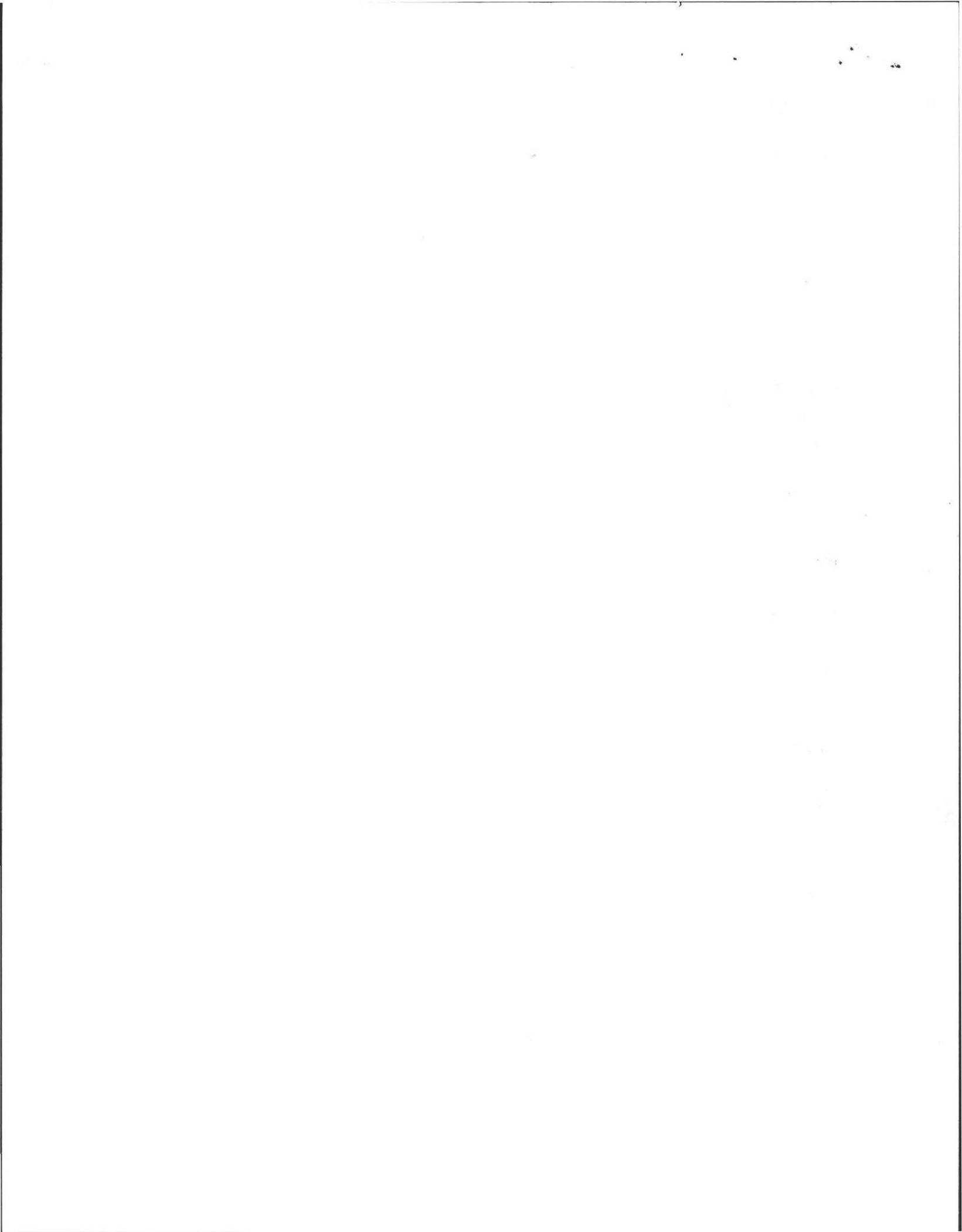
PARENT MATERIAL: GLACIAL OUTWASH DEPTH TO BEDROCK: > 163"
DEPTH TO GROUNDWATER: STANDING WATER: NONE WEeping FROM FACE: 136"
ESTIMATED SEASONAL HIGH GROUNDWATER: 120" COLOR VARIATION- SLIGHTLY REDUCED



TIES TO MARKED POINTS - DEEP HOLES 5A & 5B

	5A (12" PINE)	5B (10" PINE)
DH5A	32'	35'
PERC 5A	27'	25'
DH5B	45'	5'
PERC 5B	48'	25'





LAND SOLUTIONS PO BOX 121 SUNDERLAND 01375 413/665-4777

TITLE 5: DRAFT PRINTED SEPTEMBER 20, 1993

APPENDIX 4 PAGE 3

DATE: 11 MAY 1998

LOCATION: HARKNESS ROAD, AMHERST, MA
 ASSESSOR'S #: MAP 21B PARCEL 14 AND 21B-14

NAME: ZAHRADNIK
 JOB NO. 98-038

TABLE DETERMINATION FOR SEASONAL HIGH WATER

METHOD USED:

	DEPTH OBSERVED STANDING IN OBSERVATION HOLE	_____ INCHES
	DEPTH WEEPING FROM SIDE OF OBSERVATION HOLE	_____ INCHES
X	DEPTH TO SOIL MOTTLES	93" INCHES
	GROUND WATER ADJUSTMENT	_____ FEET

INDEX WELL NO.	READING DATE	INDEX WELL LEVEL
ADJUSTMENT FACTOR	ADJUSTED GROUND WATER LEVEL	

PERCOLATION TEST		
DATE: 11 MAY 1998	TIME: 1:30	TIME: 1:45
OBSERVATION HOLE NO.:	5A	5B
DEPTH OF PERC:	47 & 18	42 & 18
START PRE-SOAK	1:30	1:45
END PRE-SOAK	1:45	
TIME @ 12"	1:56	25 GAL < 15 MINUTES
TIME @ 9"	2:01	
TIME @ 6"	2:08	
TIME (9"-6")	7 MINUTES	
RATE MIN/INCH	2 1/3 MINUTES PER INCH	15 SECONDS PER INCH

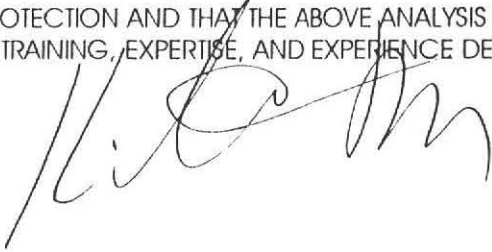
DESIGN RATE:	5 MINUTES/INCH	5 MINUTES PER INCH
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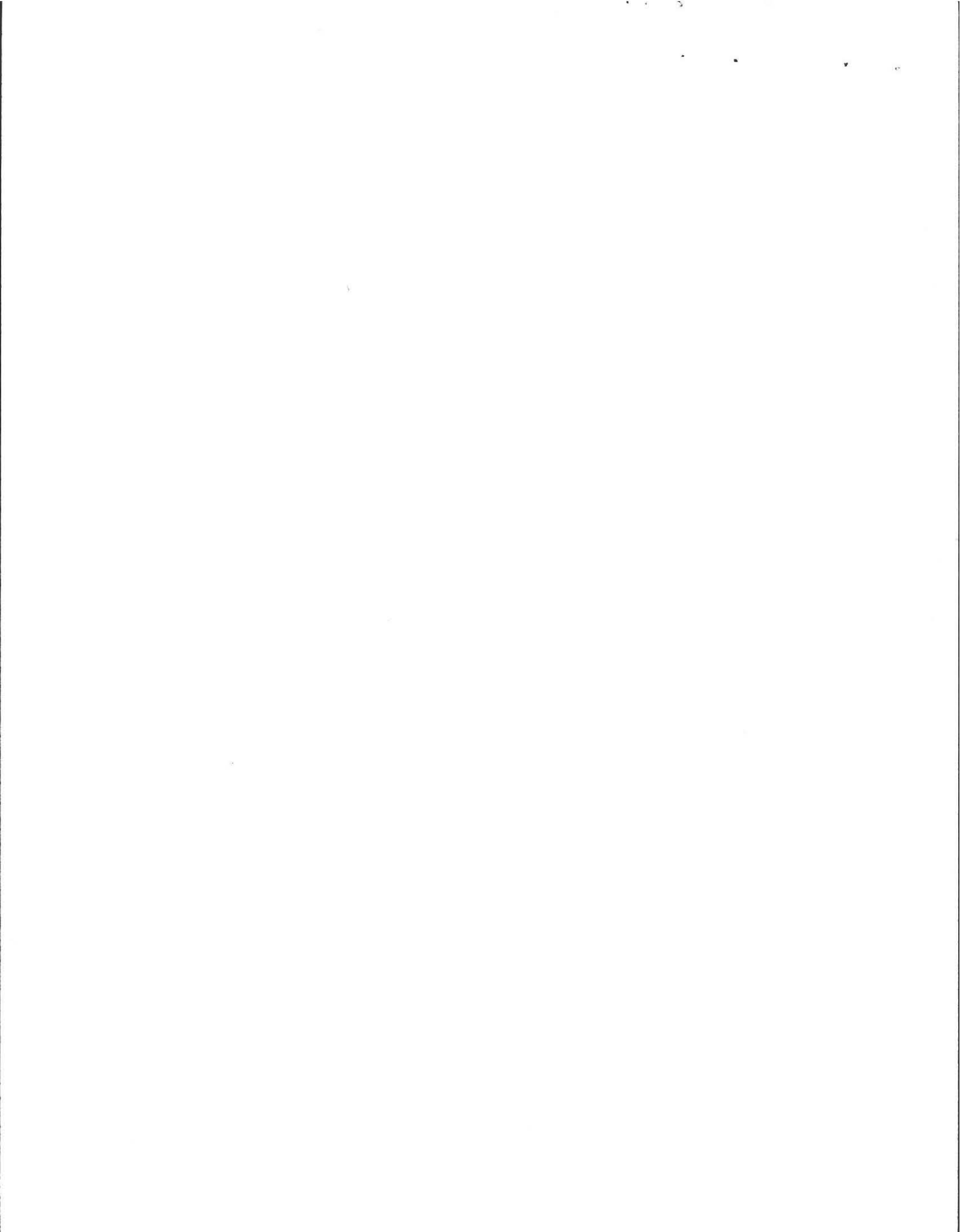
SITE SUITABILITY ASSESSMENT:	X	SITE PASSED	SITE FAILED
ADDITIONAL TESTING NEEDED:	NONE		

PERFORMED BY: K. CHRISTIAN BOYSEN
 WITNESSED BY: DAVID ZAROZINSKI AND MICHAEL LOMBARD, AMHERST HEALTH DEPARTMENT

CERTIFICATION NO. NOV. '94

I CERTIFY ON NOV. '94 I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018(2).
 LSRD6697





PERCOLATION TEST INFORMATION

TEST PIT	TEST PIT 5-A	TEST PIT 5-B
4	OT3 LOAM A FINE SANDY LOAM 104R 2-2	OT3 LOAM TOP SOIL A FINE SANDY LOAM 104R 2-2
4	SILTY GRAVEL SUB SOIL B FINE SANDY LOAM 104R 3-0	SILTY GRAVEL SUB SOIL B FINE SANDY LOAM 104R 4-1/4
21	COARSE SILTY GRAVEL BC COARSE SANDY LOAM 104R 6-4	COARSE SILTY GRAVEL BC COARSE SANDY LOAM 104R 4-4
35	WELL GRADED GRAVEL C1 COARSE SAND 54R 4-0	WELL GRADED GRAVEL C1 COARSE SAND 54R 4-0
50	FINE TO MED SAND C2 VERY FINE SAND 754 4B5	FINE TO MED SAND LAYEDED C2 VERY FINE SAND 254 6-4

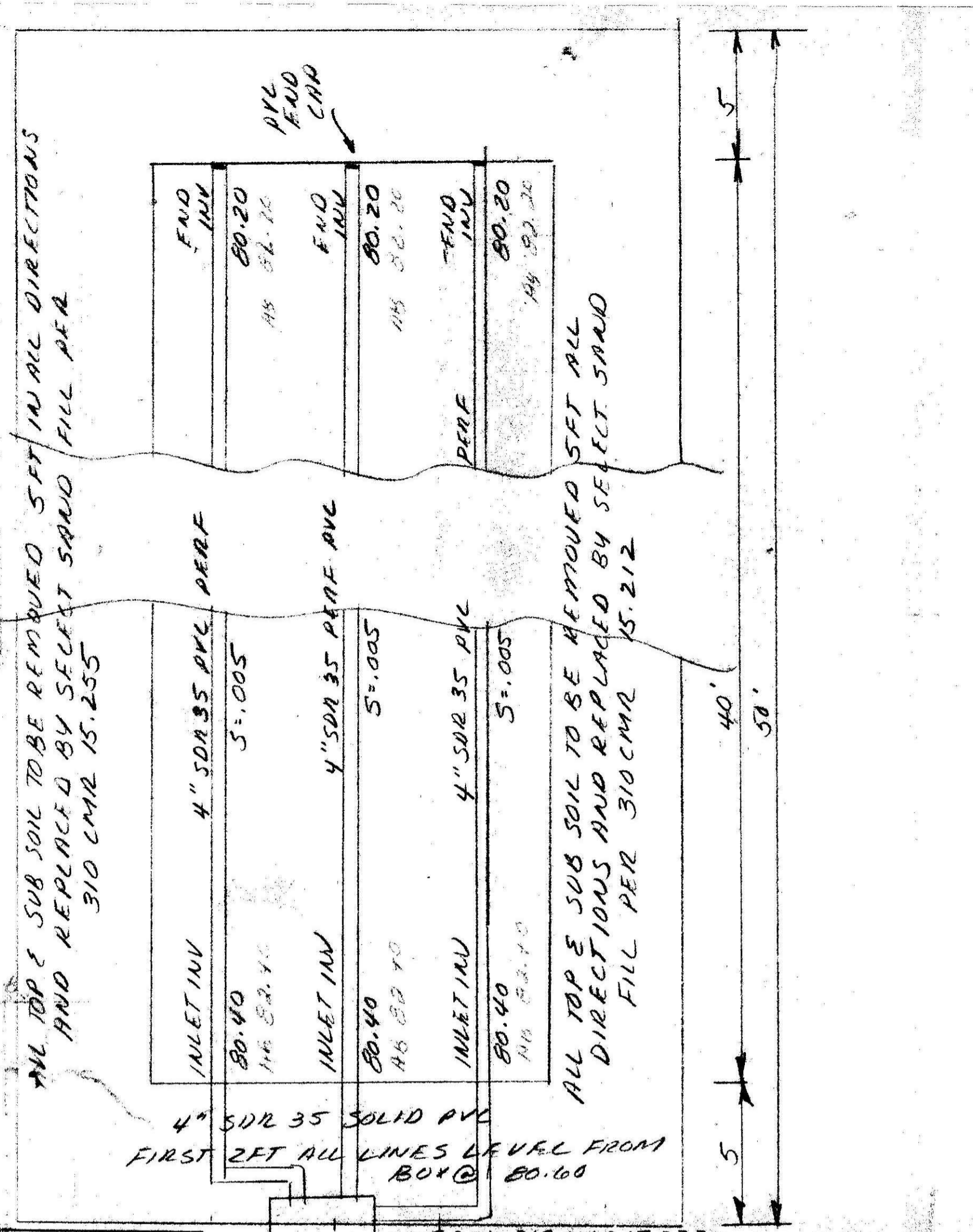
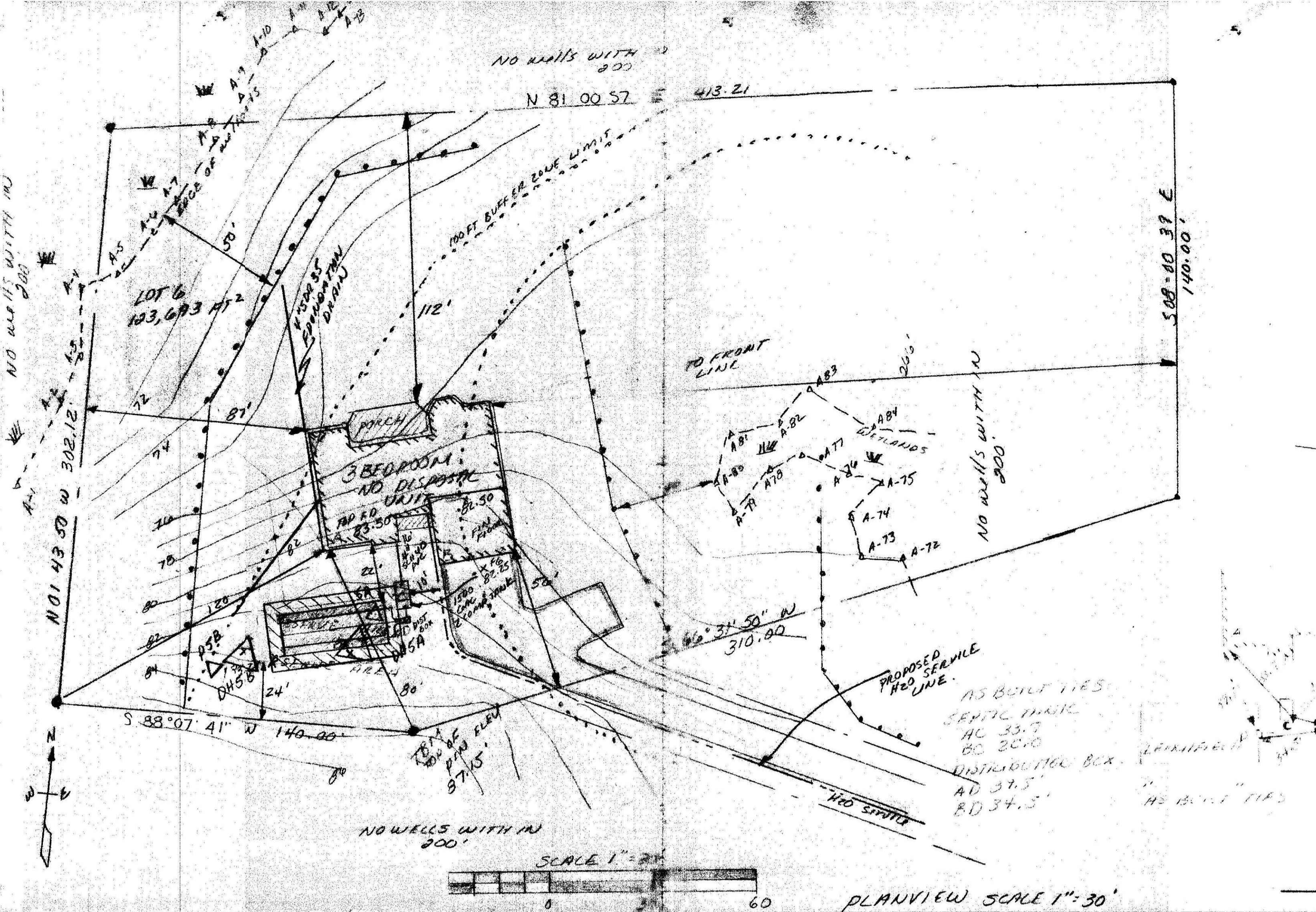
NO H2O WEEPING @ 97"
MOTTLING 104R 4-0 @ 93" EHW 93"

NO H2O WEEPING @ 136"
MOTTLING 130 (104R 4-0) SHE TPA EHW 120" 13"

DATE: 5-11-98
EVALUATOR: K.C. BOYSEN.
WITNESS: DAVID ZARZINSKI & M. LOMBARD BOH AGENTS

PERMEABILITY
PERL 1 @ TPA
DEPTH 65"
ACTUAL RATE 2.33 MIN/INCH
DESIGN RATE 0.50 MIN/INCH
CLASS I SOILS
60" SEPARATION REQD
PER 310 CMR 15.212

PERL 5B @ TPA
DEPTH 60"
ACTUAL .25 MIN/INCH
5.0 MIN/INCH
60" SEPARATION REQD
PER 310 CMR 15.212

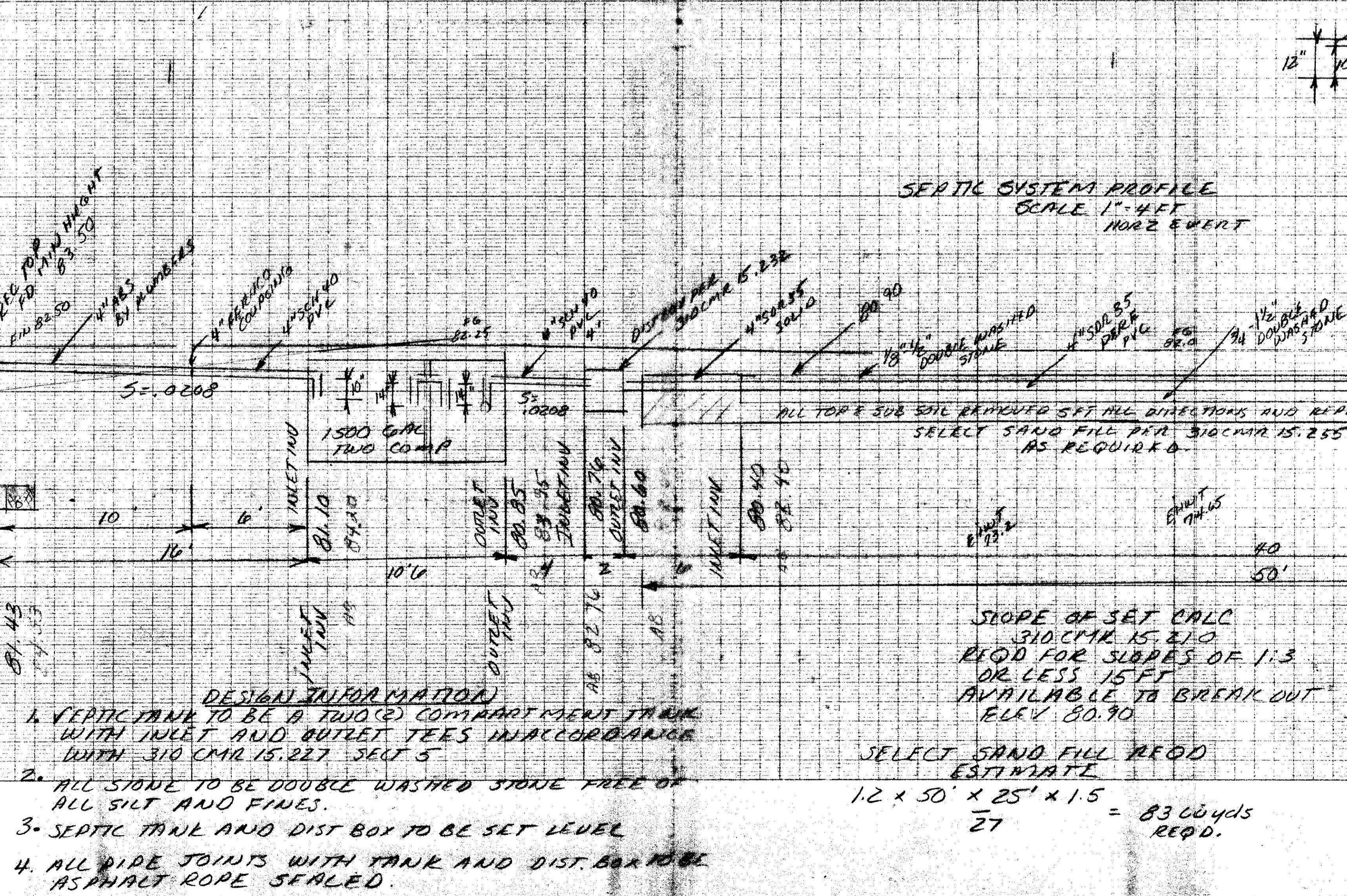


DESIGN INFORMATION
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 TITLES AND ALL LOCAL BOARD OF HEALTH REGULATIONS.
FINISH GRADING TO BE AS SHOWN ON PLANVIEW AND ALL DISTURBED AREAS TO BE LOAMED AND SEEDED.
USE: PROPOSED SINGLE FAMILY RESIDENTIAL HOME 3 BEDROOM, NO DISPOSAL UNIT, FULL BMT WITH FOUNDATION DRAINAGE.
DESIGN FLOW: 310 CMR 15.203
REQD 110 GALS/BEDROOM 1.3 = 330 GALS/DAY
NO DISPOSAL UNIT
SEPTIC TANK: 310 CMR 15.223
REQD 330 GALS/DAY x 200% = 660 GALS
MINIMUM TANK SIZE PERMITTED 1500 GALS
USE A TWO (2) COMPARTMENT 1500 GAL PVC CAST CONK TANK 10'0" x 5'15" 5/8" AROM BASE TO INLET INV
LEACHING SYSTEM: DUE TO SOIL CONDITIONS A LEACH FIELD DESIGN IS TO BE USED PER 310 CMR 15.251

PERMEABILITY
310 CMR 15.242
ACTUAL RATE 2.33, 25
DESIGN RATE 5.0
CLASS I SOIL
BOTTOM & SIDEWALL
SEPARATION
REQD PER 310 CMR 15.212
600 FT² x .74 = 444 GALS/DAY 40" REQD
EXCEED CODE REQD FLOW

TBM TOP OF 4" ELEV.
87.15'

NAIL WITH FRONT LOT #5
97.25'



ALL TOP 2 SUB SOIL TO BE REMOVED 5FT IN ALL DIRECTIONS AND REPLACED BY SELECT SAND FILL PER 310 CMR 15.212

SEPTIC SYSTEM DESIGN FOR M. STOSZ & P. ZAMRADNIK LOT # 5 DAYTON LAKE AMHERST MASS 01002 FINGER: W.J. SIERNY FEB. 20, 2003

AS BUILT PLANS BY SIERNY 2/24/04

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

Board of Health
Town Hall Inspection Department
70 Boltwood Walk
Amherst, MA. 01002

March 3, 2004

Subject: M. Stotz and P. Zahradnik
Lot 6 Dayton Lane
Amherst, MA. 01002

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. A change in the overall elevations was necessary. The elevations were raised 2 feet overall due to changes in the building elevations. See as built plans. 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)

2CC: M. Stotz

WJS:mbs

X
416

