

State Street - Pending



617-982-5400

c 4# 8831

No. 98-5

FEE 160.00

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Pd by Coler & Colantonio
101 Accord Park Dr.
Suite 1
Horswell Mass
02061

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct () or Repair () an Individual Sewage Disposal System at:

91 STATE STREET, AMHERST, MA

LOT 4

TOMLIN PROPERTIES

P.O. BOX 327, AMHERST, MA 01004

Owner

Address

Installer

Address

Type of Building

Size Lot 43,345 Sq. feet

Dwelling — No. of Bedrooms 3 Expansion Attic () Garbage Grinder () NO

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

Other fixtures _____

Design Flow 110 gallons per person per day. Total daily flow 330 gallons.

Septic Tank — Liquid capacity 1500 gallons Length 11' Width 5'-8" Diameter _____ Depth 5'-1"

Disposal Trench — No. 3 Width 2' Total Length 40' Total leaching area 720 sq. ft.

Seepage Pit No. _____ Diameter _____ Depth below inlet _____ Total leaching area _____ sq. ft.

Other Distribution box () Dosing tank ()

Percolation Test Results Performed by COLER & COLANTONIO, INC. Date 1-15-98

Test Pit No. 1 2 minutes per inch Depth of Test Pit 10' Depth to ground water N/A

Test Pit No. 2 2 minutes per inch Depth of Test Pit 10' Depth to ground water N/A

Description of Soil SANDY LOAM, SAND

Nature of Repairs or Alterations — Answer when applicable FAILED SYSTEM - NEW TANK, DISTRIBUTION BOX, AND LEACHING FIELD.

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code — The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

* Signed [Signature]

* 3/25/98

Date

Application Approved By _____

Date

Application Disapproved for the following reasons: _____

Date

Permit No. 98-5

Issued _____

Date



THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

DJ Pathy
Coler & Col
B. Wood
K. B. L. S.

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by _____

Installer

at 91 STATE STREET

has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 98-5 dated _____

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 8-10-98

Inspector [Signature]

7 28

1967

11/1/67

No. 98-5

FEE.....

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct () or Repair () an Individual Sewage Disposal System at:

91 STATE STREET, AMHERST, MA LOT 4
Location - Address
TOMLIN PROPERTIES or Lot No.
P.O. BOX 327, AMHERST, MA 01004
Owner Address

Installer Address
Type of Building Size Lot 43,345 Sq. feet
Dwelling — No. of Bedrooms 3 Expansion Attic () Garbage Grinder (NO)
Other — Type of Building _____ No. of persons _____ Showers () — Cafeteria ()
Other fixtures _____

Design Flow 110 gallons per person per day. Total daily flow 330 gallons.
Septic Tank — Liquid capacity 1500 gallons, Length 11' Width 5'-8" Diameter _____ Depth 5'-1"
Disposal Trench — No. 3 Width 2' Total Length 40' Total leaching area 720 sq. ft.
Seepage Pit No. _____ Diameter _____ Depth below inlet _____ Total leaching area _____ sq. ft.

Other Distribution box (X) _____ Dosing tank () _____
Percolation Test Results Performed by COLER & COLANTONIO, INC. Date 1-15-98
Test Pit No. 1 2 minutes per inch Depth of Test Pit 10' Depth to ground water N/A
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* Signed [Signature] Date 3/25/98



Application Approved By _____ Date _____

Application Disapproved for the following reasons: _____ Date _____

Permit No. 98-5 Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

TOWN OF AMHERST

Certificate of Compliance

[Signature]
Coler & Co

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired (✓) by _____ Installer

at 91 STATE STREET
has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 98-5 dated _____

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 8-10-98 Inspector [Signature]

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

TOWN OF AMHERST

Disposal Works Construction Permit

[Signature]
1/17/98
FEE 160.00

Permission is hereby granted Tomlin Prop
to Construct () or Repair () an Individual Sewage Disposal System
at No. 91 STATE STREET

as shown on the application for Disposal Works Construction Permit No. 98-5 Dated _____

DATE 3/6/98 Board of Health [Signature]

CHECK OR FILL IN WHERE APPLICABLE

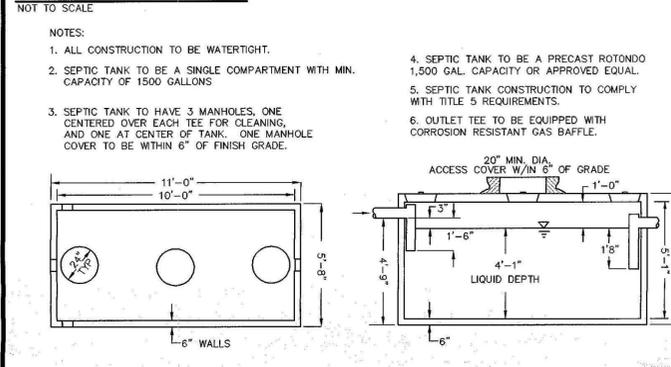
**COLER &
COLANTONIO** INC
ENGINEERS AND SCIENTISTS

DAVID J. PETRAVAGE
CIVIL ENGINEER

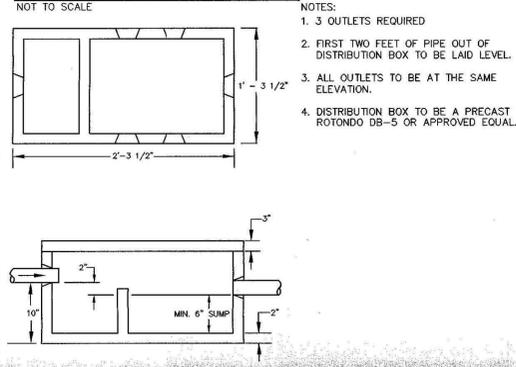
Tel: 413-665-5322
Fax: 413-665-5390
dpetravage@col-col.com

One Sugarloaf Street
South Deerfield, MA 01373

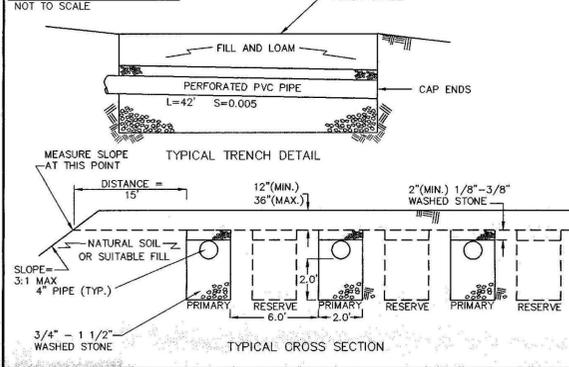
SEPTIC TANK DETAIL



DISTRIBUTION BOX DETAIL



TRENCH DETAIL

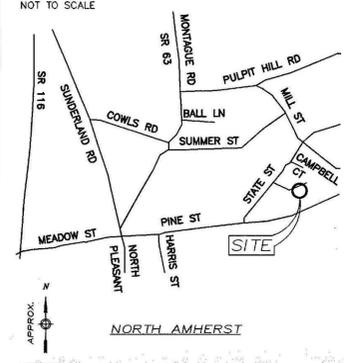


INV/ELEV TABLE

HOUSE

INV(out)	93.76'
SEPTIC TANK(in)	93.56'
SEPTIC TANK(out)	93.31'
DIST. BOX(in)	91.91'
DIST. BOX(out)	91.74'
LEACHING TRENCH (in)	91.69'
LEACHING TRENCH (end)	91.48'
LEACHING SYSTEM (bottom)	89.48'
GROUNDWATER NOT ENCOUNTERED	

LOCUS



REVISIONS:

No.	DATE	LOCATION AND INVERT ELEVATIONS OF PROPOSED SEPTIC TANK
1	3/4/98	

GENERAL NOTES:

1. THIS PLAN IS TO BE USED FOR THE DESIGN & CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM ONLY.
2. CONSTRUCTION METHODS & MATERIALS SHALL CONFORM TO MASSACHUSETTS DEP TITLE 5 AND TOWN OF AMHERST BOARD OF HEALTH REGULATIONS.
3. CONFIRMATION OF THE CONSTRUCTION OF THIS PLAN IS REQUIRED. COLER & COLANTONIO, INC. SHALL BE NOTIFIED FOR INSPECTION:
 - WHEN EXCAVATION IS COMPLETE AND PRIOR TO PLACEMENT OF STONE.
 - AFTER INSTALLATION OF SYSTEM AND PRIOR TO BACKFILL OVER SYSTEM.
 - AFTER FINAL GRADING.
 PROCUREMENT OF THESE SERVICES IS THE RESPONSIBILITY OF THE OWNER/INSTALLER.
4. PROPERTY LINE INFORMATION IS TAKEN FROM A PLAN ENTITLED "PLAN OF LAND IN AMHERST, MASSACHUSETTS SURVEYED FOR RONALD BERGUM" BY HAROLD L. EATON DATED SEPTEMBER 21, 1988. COLER & COLANTONIO, INC. BEARS NO RESPONSIBILITY FOR THE DEPICTION THEREOF.
5. SEPTIC SYSTEM DESIGN DOES NOT INCLUDE A GARBAGE GRINDER.
6. ALL PVC PIPING TO BE SCHEDULE 40.
7. TO THE BEST OF OUR KNOWLEDGE NO PUBLIC WATER SUPPLY WELLS ARE WITHIN 400' OF THE LEACHING AREA.
8. REMOVE UNSUITABLE MATERIAL (TOP & SUB SOIL), TO 26" DEPTH AS SHOWN ON TEST PITS. 5' BEYOND LIMITS OF S.A.S. REPLACE WITH SUITABLE MATERIAL MEETING TITLE 5 REQUIREMENTS.
9. SEPTIC TANK SHALL BE SERVICED AT LEAST ONCE EVERY THREE YEARS.
10. SEPTIC SYSTEM DESIGN CONFORMS TO 310 CMR 15.00, STATE ENVIRONMENTAL CODE, TITLE 5. THE ENGINEER DOES NOT GUARANTEE THAT THE SYSTEM WILL FUNCTION.

COLER & COLANTONIO INC
ENGINEERS AND SCIENTISTS

(413) 665-5300 1 Superior Street
Fax: (413) 665-5390 South Deerfield, MA 01373



TITLE:

SEPTIC SYSTEM REPLACEMENT PLAN

91 STATE STREET AMHERST, MA

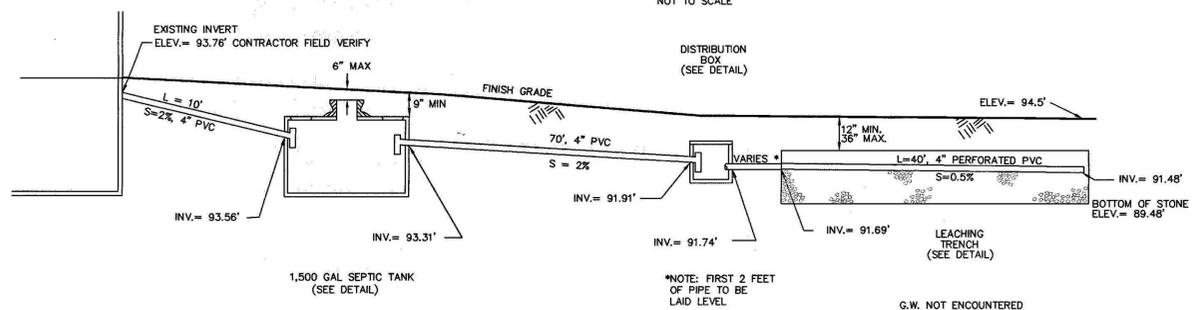
PREPARED FOR:

TOMLAN PROPERTIES
P.O. BOX 327
AMHERST, MA 01004

DATE: 2/4/98
COMP./DESIGN: SJM
CHECK: SEC
DRAWN: EWH
SCALE: 1" = 20'
JOB NO.: 60-52
DWG NO.: 60-52S1
SHEET 1 OF 1



SEPTIC SYSTEM PROFILE



SOIL LOGS

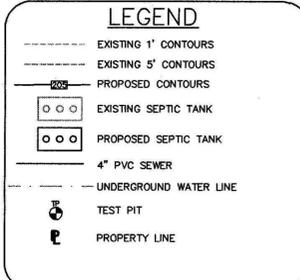
Depth from Surface (in)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders Consistency, % Gravel)
0 - 13	Ap	Sandy Loam	10YR3/2	NONE OBSERVED	
13 - 26	Bw	Sand	10YR5/6	NONE OBSERVED	Gravel; Cobbles
26 - 54	C1	Sand	10YR6/4	NONE OBSERVED	Gravel; Cobbles; Some stones
54 - 120	C2	Sand	10YR5/4	NONE OBSERVED	

Test Pit Number: TP-15-1 Date: 1/15/98
Estimated Seasonal High Ground Water: NOT ENCOUNTERED
Depth to Standing Ground Water: NOT ENCOUNTERED

Depth from Surface (in)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders Consistency, % Gravel)
0 - 13	Ap	Sandy Loam	10YR3/2	NONE OBSERVED	
13 - 26	Bw	Sand	10YR5/6	NONE OBSERVED	Gravel; Cobbles
26 - 54	C1	Sand	10YR6/4	NONE OBSERVED	Gravel; Cobbles; Some stones
54 - 120	C2	Sand	10YR5/4	NONE OBSERVED	

Test Pit Number: TP-15-2 Date: 1/15/98
Estimated Seasonal High Ground Water: NOT ENCOUNTERED
Depth to Standing Ground Water: NOT ENCOUNTERED

* REFER TO SOIL REPORT FOR MORE INFORMATION



DESIGN DATA

DESIGN FLOW:
3 BEDROOM DWELLING
3 BDRM x 110 GPD/BDRM = 330 GPD

SEPTIC TANKS:
200% x 330 GPD/BDRM = 660 GAL.
SEPTIC TANK TO BE 1,500 GAL. MIN. LIQUID CAPACITY

SIZE OF LEACHING FACILITY:
PERC RATE 2 min./in.
(CLASS I SOIL)

LOADING RATE: 0.74 GPD/S.F.

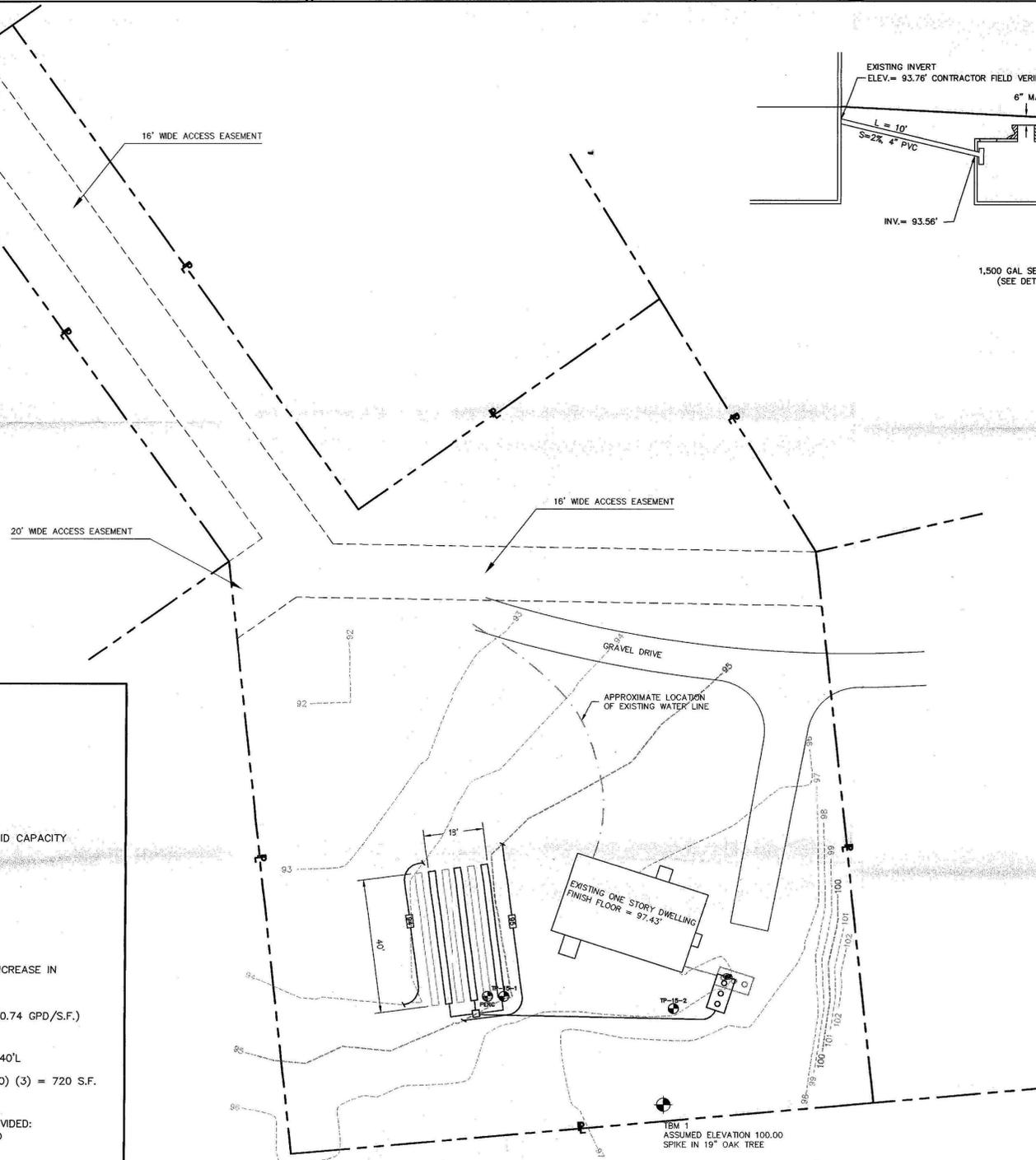
TOWN OF AMHERST REQUIREMENT: 25% INCREASE IN SIZE OF LEACHING AREA

REQUIRED AREA = 1.25 x (330 GPD) / (0.74 GPD/S.F.) = 557 S.F.

USE 3 LEACHING TRENCHES 2'W x 2'D x 40'L

SIDEWALL AND BOTTOM AREA = 3(2' x 40') (3) = 720 S.F.
TOTAL AREA = 720 S.F.

CAPACITY OF LEACHING AREA TO BE PROVIDED:
= (720 S.F.) (0.74 GPD/S.F.) = 533 GPD



3/6/98/02 Inlet Pipe (from house to tank) must be IN the center of tanks

Town of



AMHERST

Massachusetts

TOWN HALL
4 BOLTWOOD AVENUE
AMHERST, MA. 01002-2351

INSPECTION SERVICES DEPARTMENT
Fax (413) 256-4041
Phone (413) 256-4030

May 13, 1998

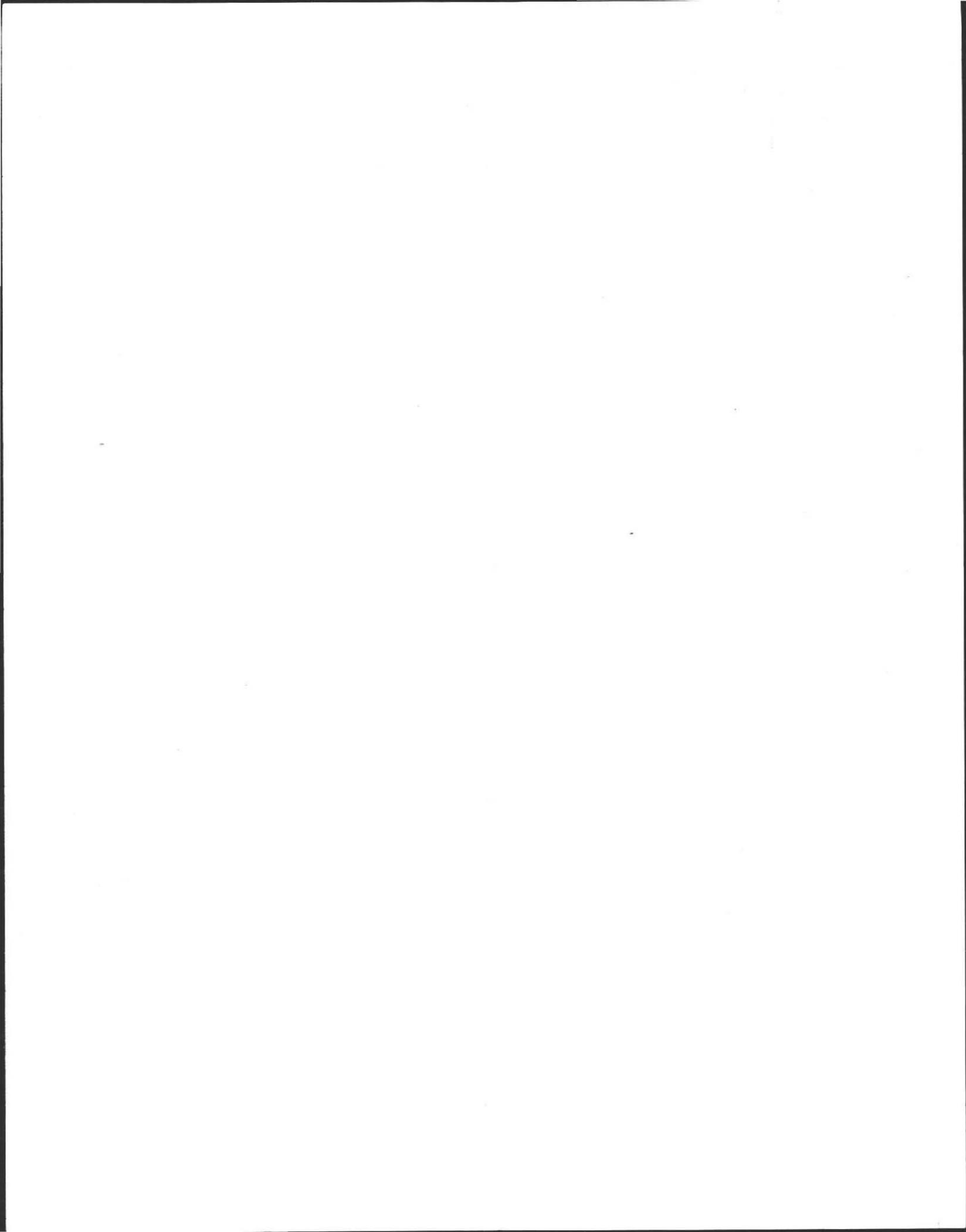
Tomlan Properties
P. O. Box 327
Amherst, Ma 01004

To whom it may concern:

It has been several months since I approved the septic system design for 91 State Street. I would like the information you have as to when this system will be installed.

Very truly yours

Dave Zarozinski
Sanitarian



LETTER OF TRANSMITTAL

COLER & COLANTONIO, INC.
 One Sugarloaf Street
 South Deerfield, MA 01373

(413) 256-4797

TO: Dave Zarozinski
Sanitarian
Town of Amherst, MA

JOB NO.	DATE
60-52	March 5, 1998
ATTENTION	
Mr. Dave Zarozinski	
RE:	
91 State St.	

WE ARE SENDING YOU

the following: Attached Under separate cover via _____

Shop Drawings Specifications Copy of letter Change order

Prints Plans Samples _____

COPIES	DATE	NUMBER	DESCRIPTION
4	2/4/98	60-52S1	1" = 20' Septic System Replacement Plan with revision as noted

THESE TRANSACTIONS ARE:

For your approval Approved as submitted Resubmit with _____ copies for approval

For your use Approved as noted Submit _____ copies for distribution

As per your request Corrections noted Return _____ corrected prints

for your review and comment(s) _____

FOR BIDS DUE _____ 19 PRINTS RETURNED AFTER LOAN TO US

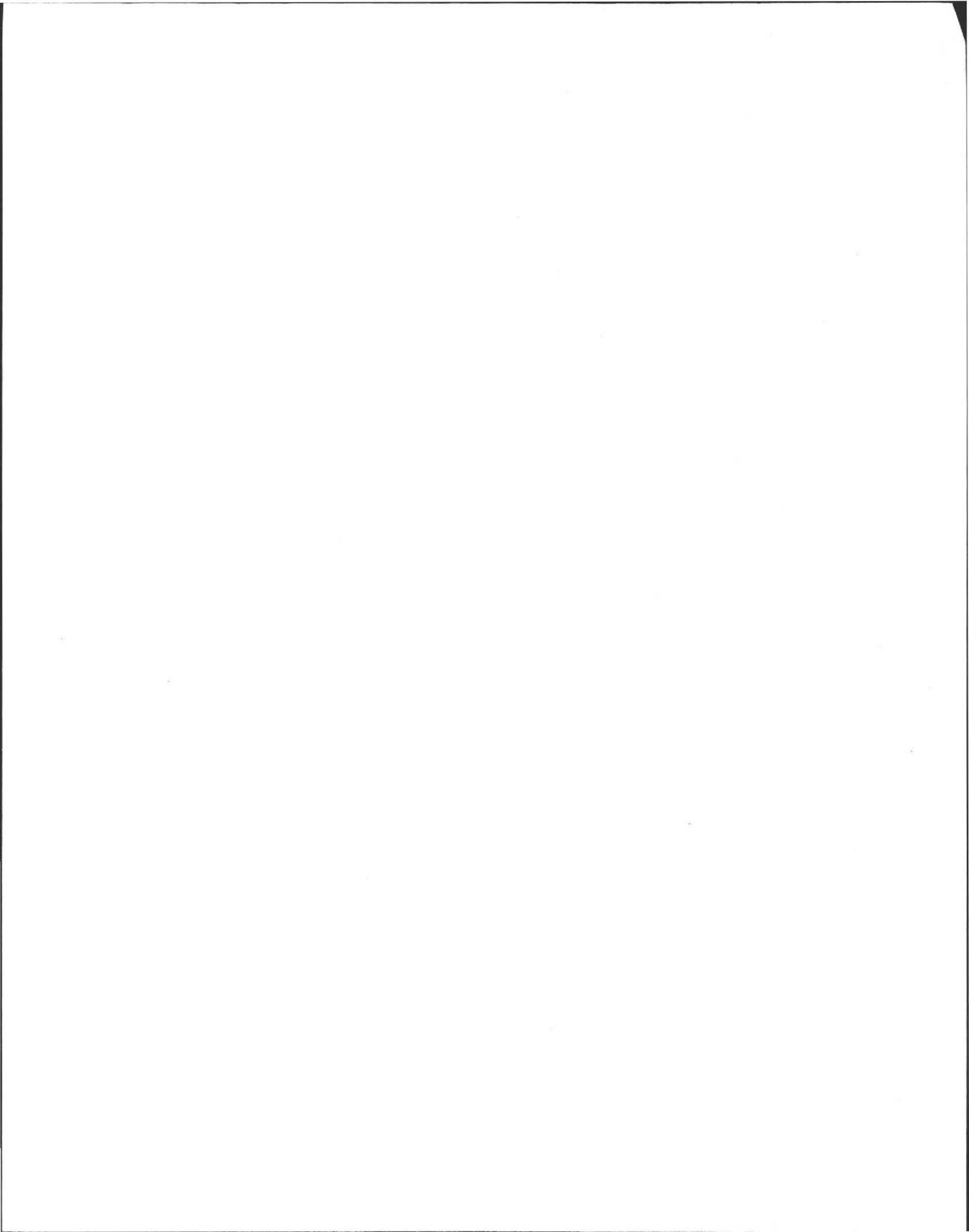
REMARKS:

We have made the suggested revisions. Please feel free to call with any questions you may have.

3/5/98 -
Inlet Pipe (From house to tank) must be in the center line of tank
[Signature]

COPY TO:

SIGNATURE: *Edward W. Haraway*



1/15/98 NOT R

No. _____

Date: 01-15-98

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

Performed By: _____
Witnessed By: David Zarozinski

Date: 01/15/98

Location Address or Lot # <u>91 BAY ROAD</u>	Owner's Name, Address, and Telephone #
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) _____

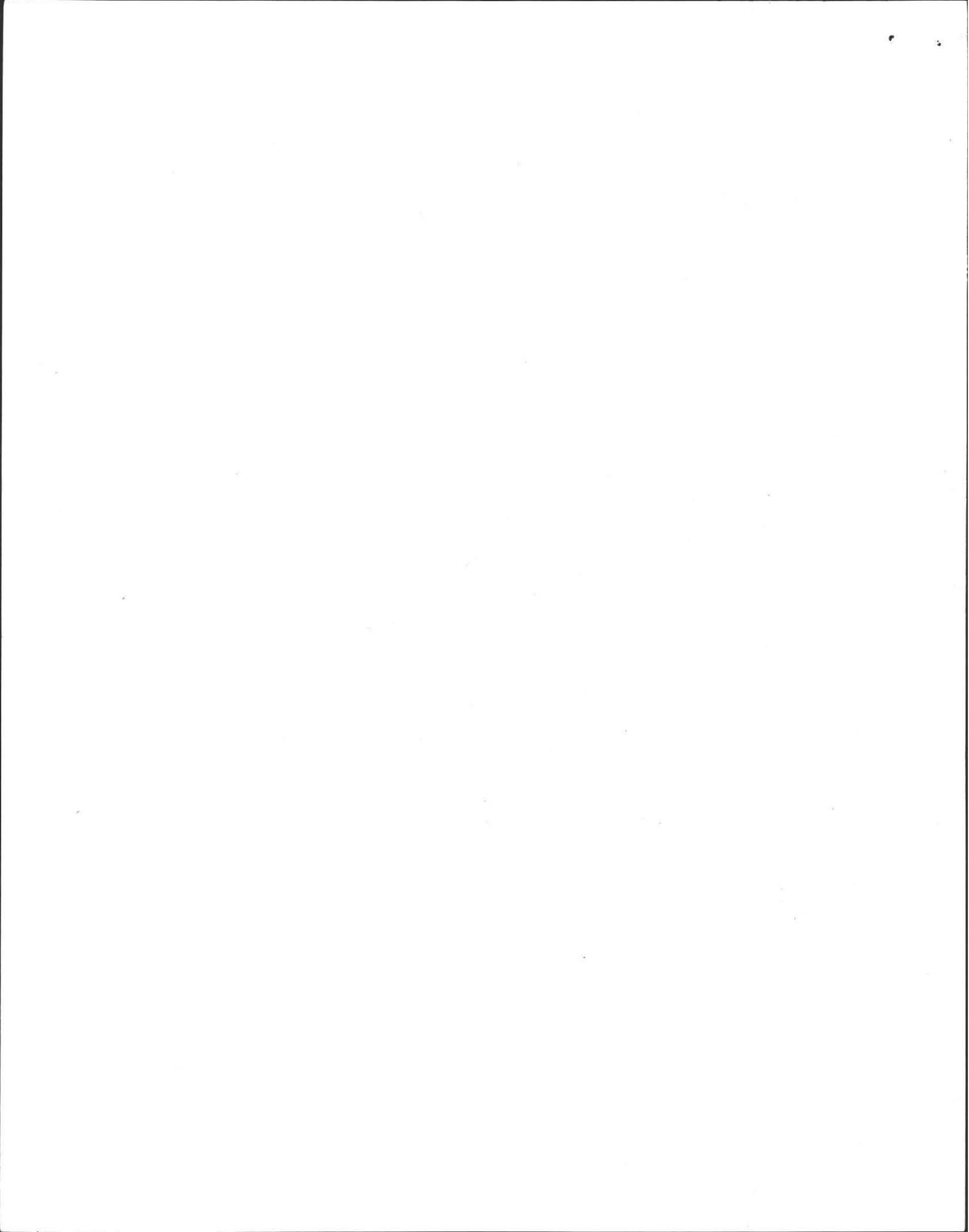
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal Normal Below Normal

Other References Reviewed: _____





Location Address or Lot No. 91 STATE STREET

On-site Review

Deep Hole Number 1 Date: 1/15/98 Time: 8:00 Weather Cloudy C. 15 / 17°

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)
13"	A _p	Sandy Loam	10YR 3/2	No Mottling	gravel cobbles
26"	B	SAND	10YR 5/6		gravel cobbles
54"	C ₁	SAND	10YR 2/4		Some stones
10'	C ₂	fine SAND	10YR 4/3		

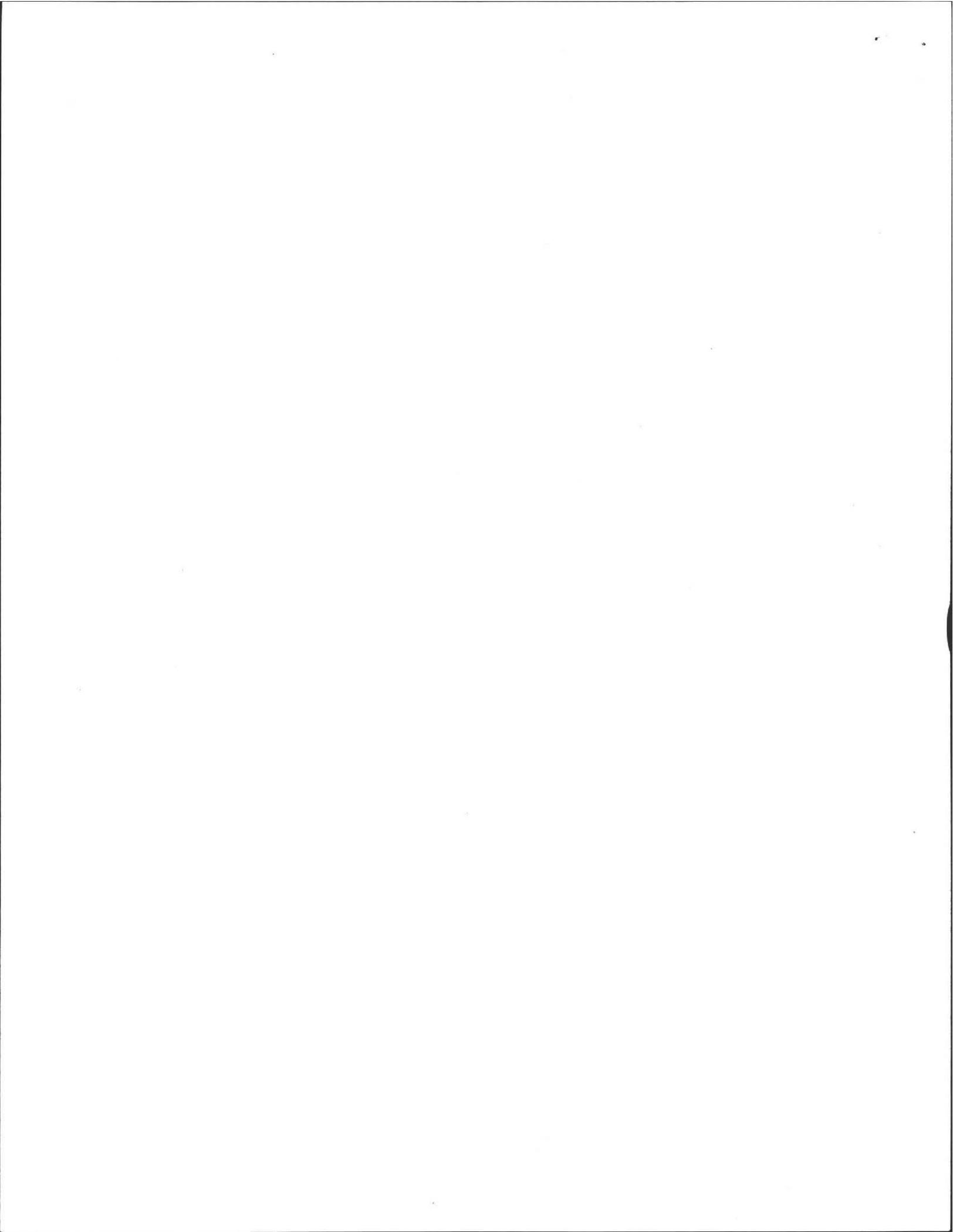
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) _____ Depth to Bedrock: _____

Depth to Groundwater: Standing Water in the Hole: None Weeping from Pit Face: None

Estimated Seasonal High Ground Water: None





Location Address or Lot No. 91 STATE ST.

On-site Review

Deep Hole Number 2 Date: 11/25/98 Time: 9:00 Weather cold / 17° cloudy

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)
13"	A _p	Sandy Loam	10YR 3/2	1/0	
25"	B	Sand	10YR 5/6	/	gravel w/ cobbles
54"	C ₁	Sand	10YR 2/4	2/0	gravel / cobbles Some stones
120"	C ₂	Fine sand	10YR 6/3	/	

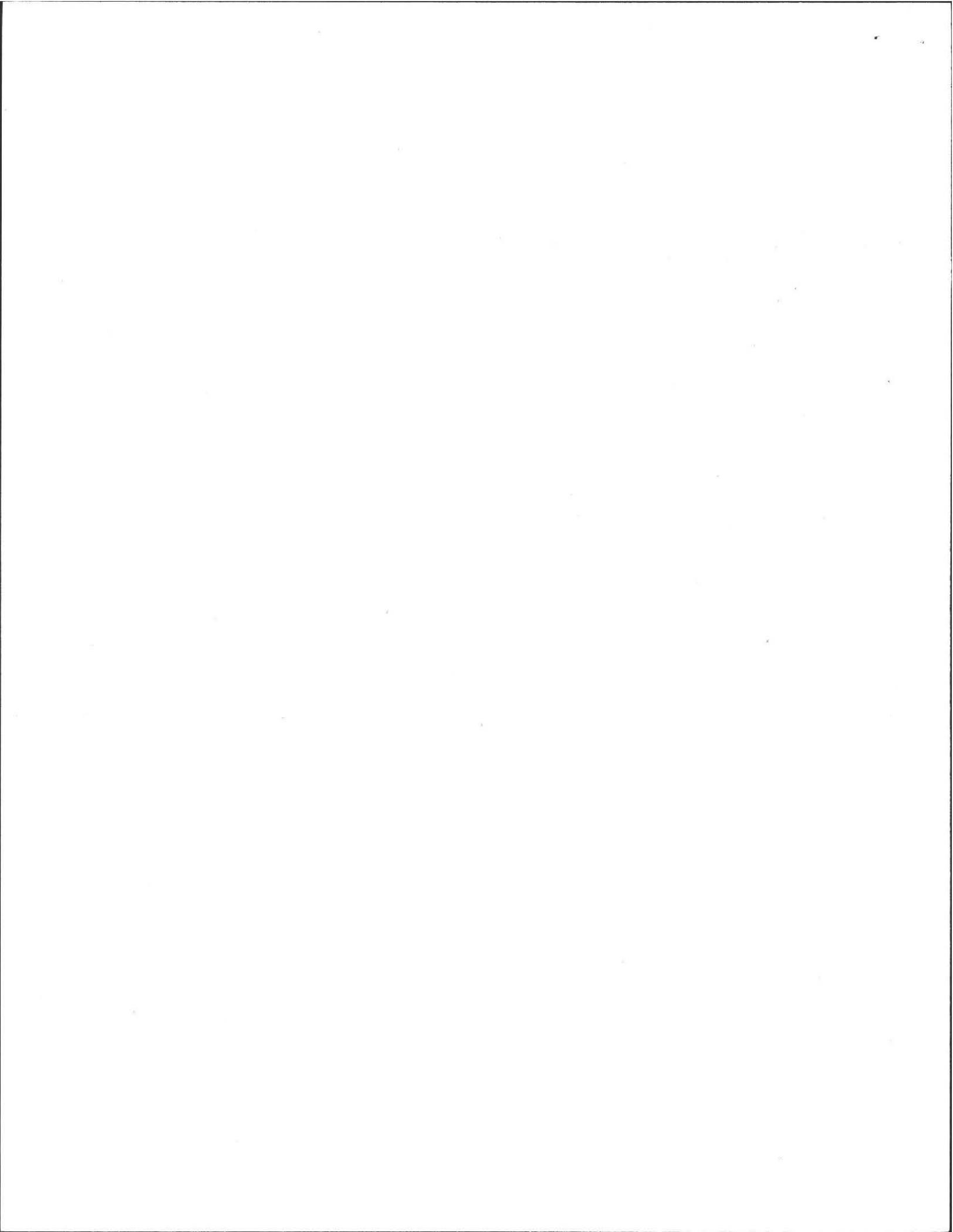
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) _____ Depth to Bedrock: _____

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

Estimated Seasonal High Ground Water: None





Location Address or Lot No. 91 STATE STREET

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date:		Time:
Observation Hole #		
Depth of Perc	60"	
Start Pre-soak	8:32	
End Pre-soak	8:47	
Time at 12"	8:47	
Time at 9"	8:48	
Time at 6"	8:50	
Time (9"-6")	1 MIN AW BUCK	
Rate Min./Inch	-2	

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

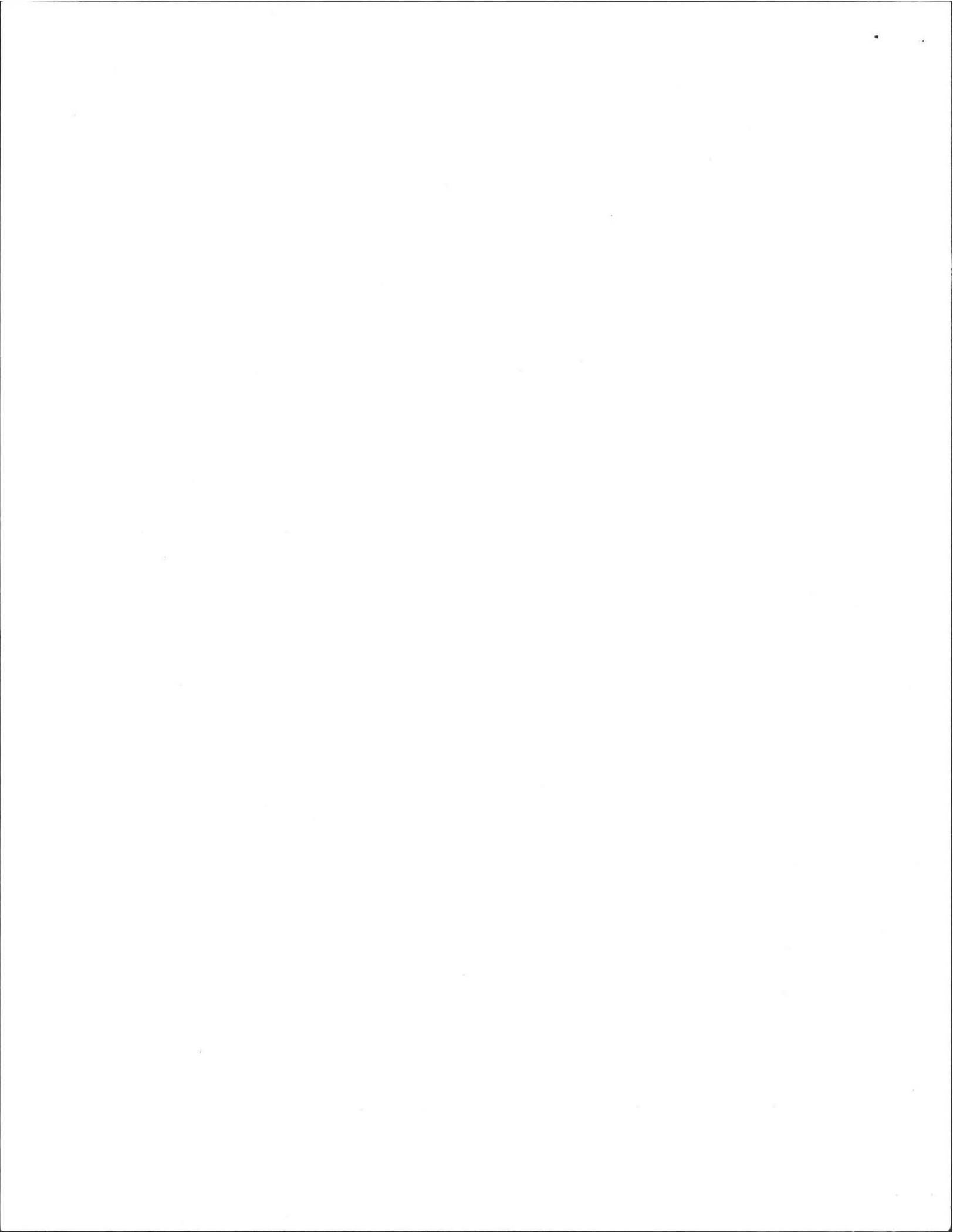
Site Passed Site Failed

Performed By: Colee + COLANTANIS

Witnessed By: DAVID ZAROCINSKI FOR INSPECTIONS

Comments: _____





Location Address or Lot No. 91 STATE STREET

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 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? _____

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





Location Address or Lot No. 91 STATE ST, AMHERST, MA

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 inches NONE OBSERVED
- 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

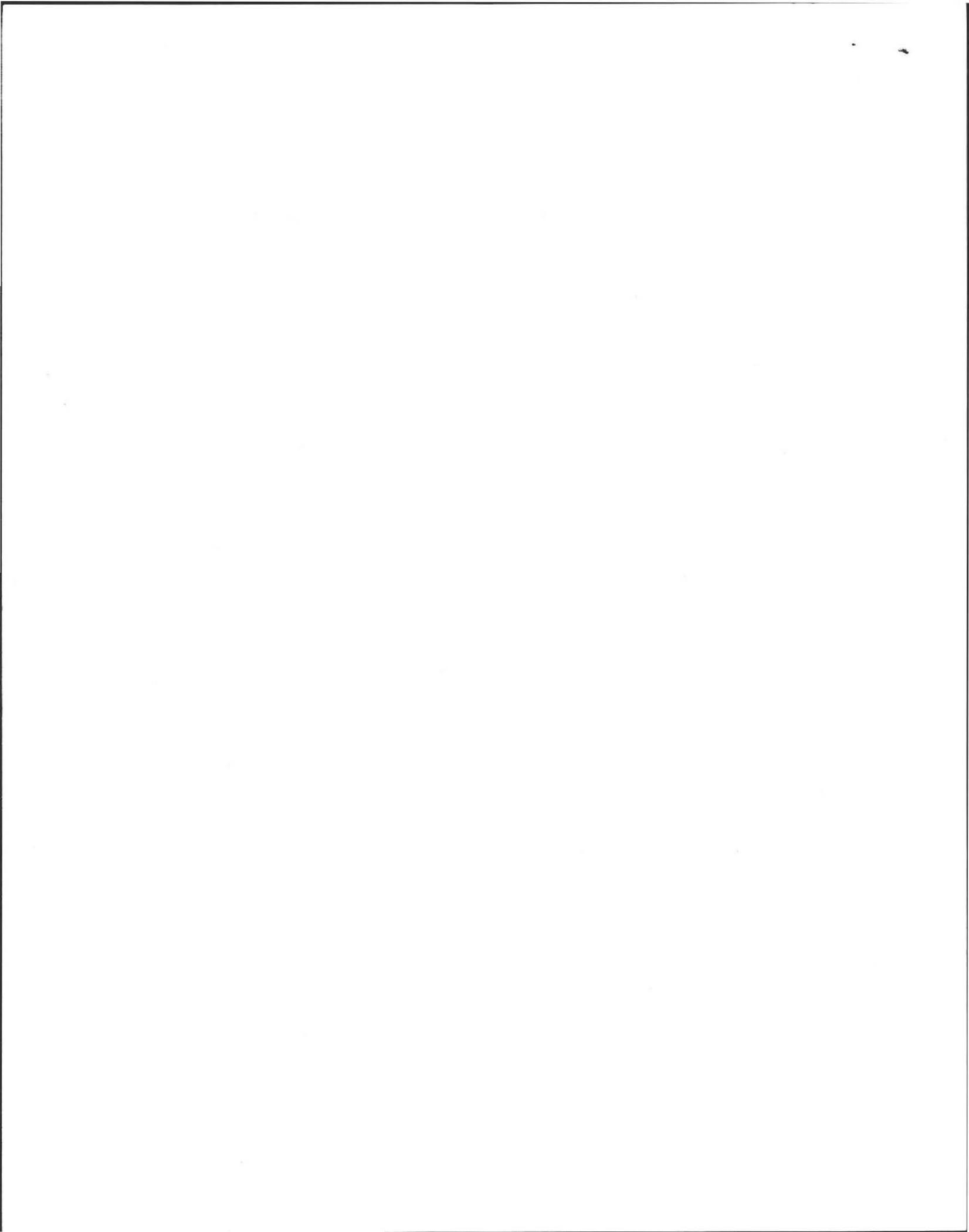
If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on JUNE 1997 (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 Edward W. Hathaway Date 1/15/98





Location Address or Lot No. Amherst, MA

On-site Review

Deep Hole Number: TP-15-1 Date: 1/15/98 Time: 8:00 AM Weather: 18° F cloudy

Location: (identify on site plan)

Land Use: Residential

Slope (%): 1

Surface Stones: none

Vegetation: Lawn

Landform: Terrace

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*

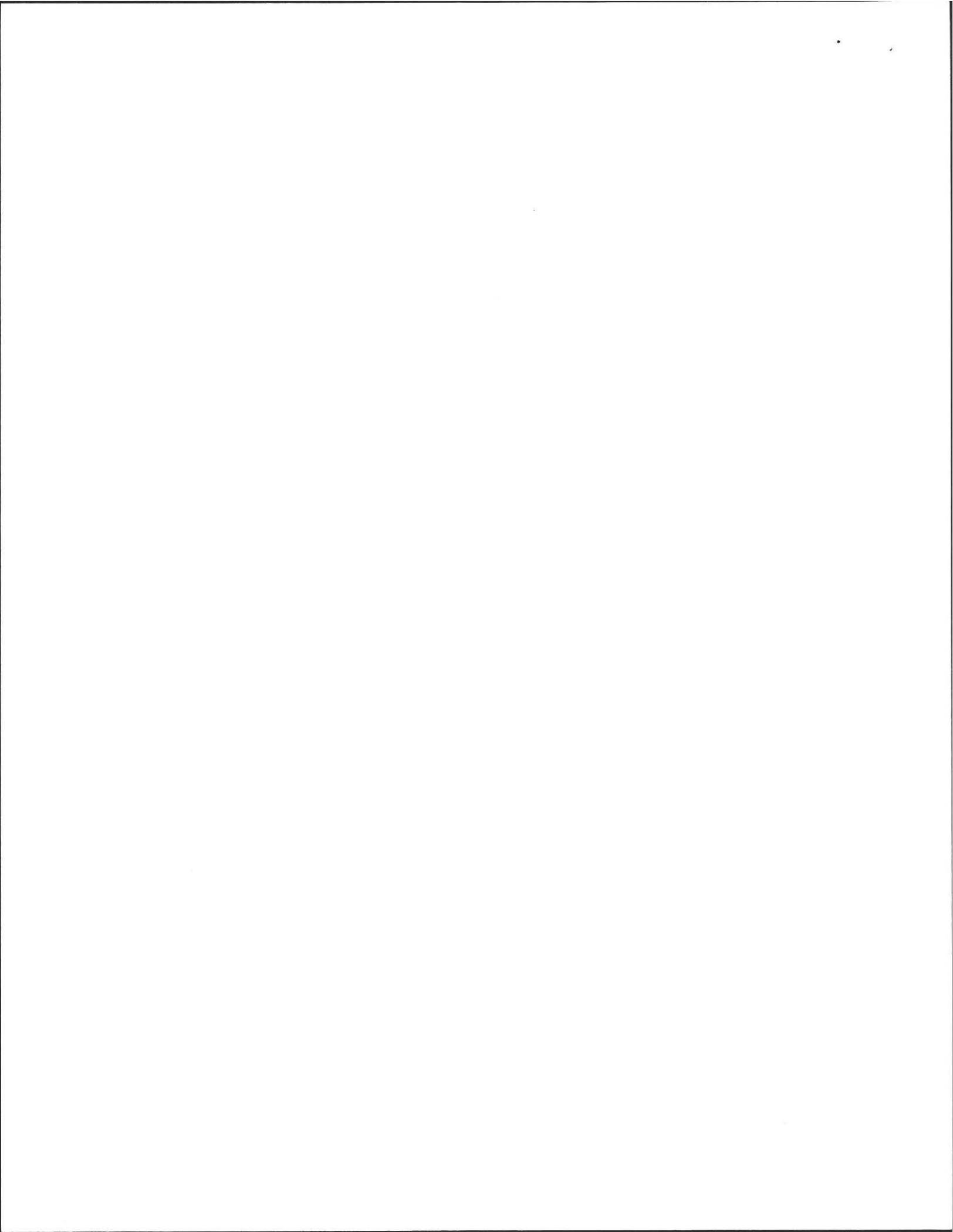
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-13	Ap	Sandy Loam	10yr 3/2	none	
13-26	Bw	Sand	10yr 5/6	none	Gravel; Cobbles
26-54	C1	Sand	10yr 6/4	none	Gravel; Cobbles; Some stones
54-120	C2	Fine Sand	10yr 6/3	none	

*MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: Not observed NA

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

Estimated Seasonal High Ground Water: Not Observed



Location Address or Lot No. Amherst, MA

On-site Review

Deep Hole Number: TP-15-2 Date: 1/15/98 Time: 9:00 AM Weather: 18° F cloudy

Location: (identify on site plan)

Land Use: Residential

Slope (%): 1

Surface Stones: none

Vegetation: Lawn

Landform: Terrace

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	

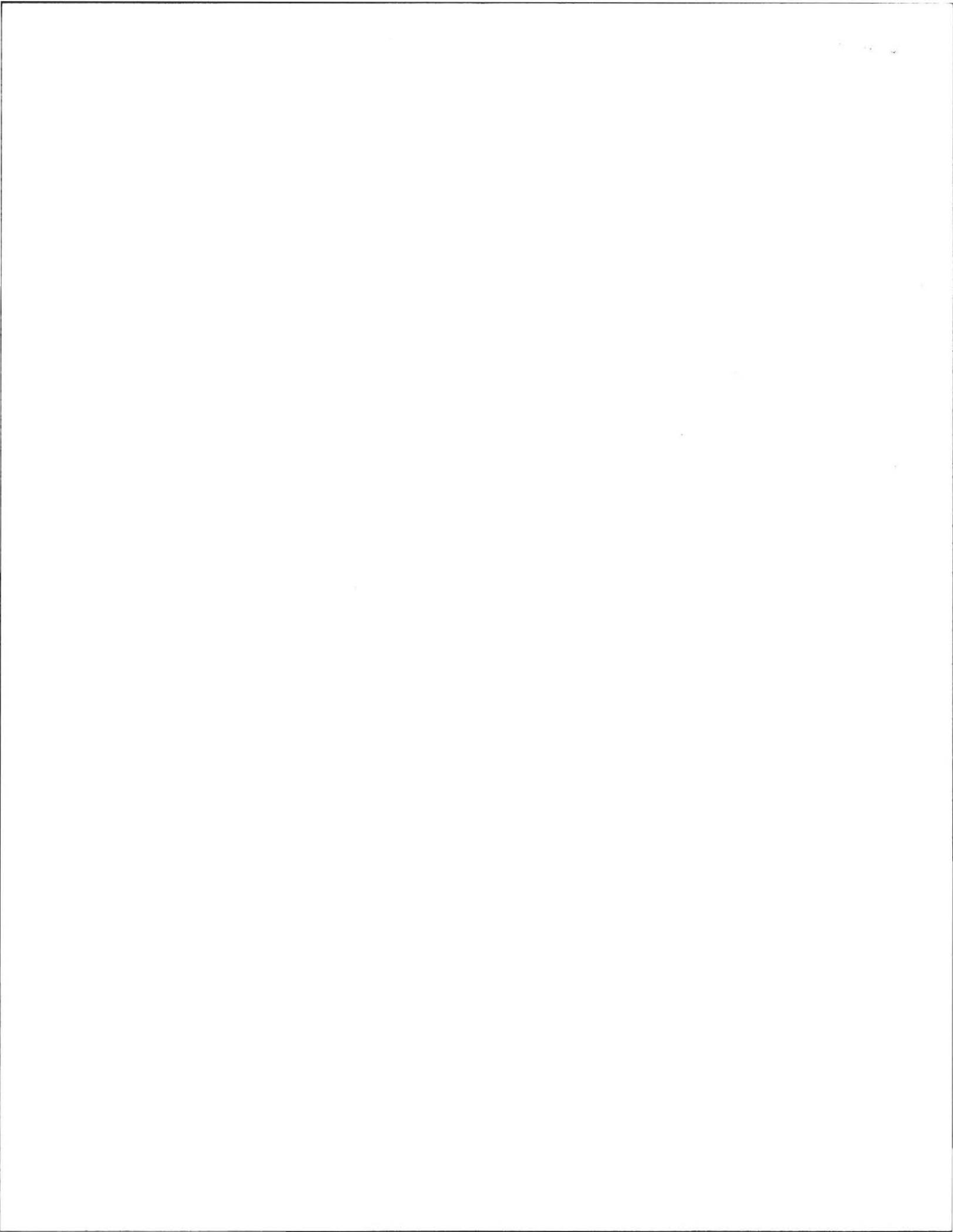
DEEP OBSERVATION HOLE LOG*					
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-13	Ap	Sandy Loam	10yr 3/2	none	
13-26	Bw	Sand	10yr 5/6	none	Gravel; Cobbles
26-54	C1	Sand	10yr 6/4	none	Gravel; Cobbles; Some stones
54-120	C2	Fine Sand	10yr 6/3	none	

*MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Outwash Depth to Bedrock: Not observed NA

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

Estimated Seasonal High Ground Water: Not Observed



Location Address or Lot No. 91 State Street, Amherst, MA

COMMONWEALTH OF MASSACHUSETTS

Massachusetts

Percolation Test*		
Date: 1/15/98		Time: 8:30 AM
Observation Hole #	TP-15-1	
Depth of Perc	60"	
Start Pre-soak		8:32
End Pre-soak		8:47
Time at 12"		8:47
Time at 9"		8:48
Time at 6"		8:50
Time (9"-6")		2 min
Rate Min./Inch		<2

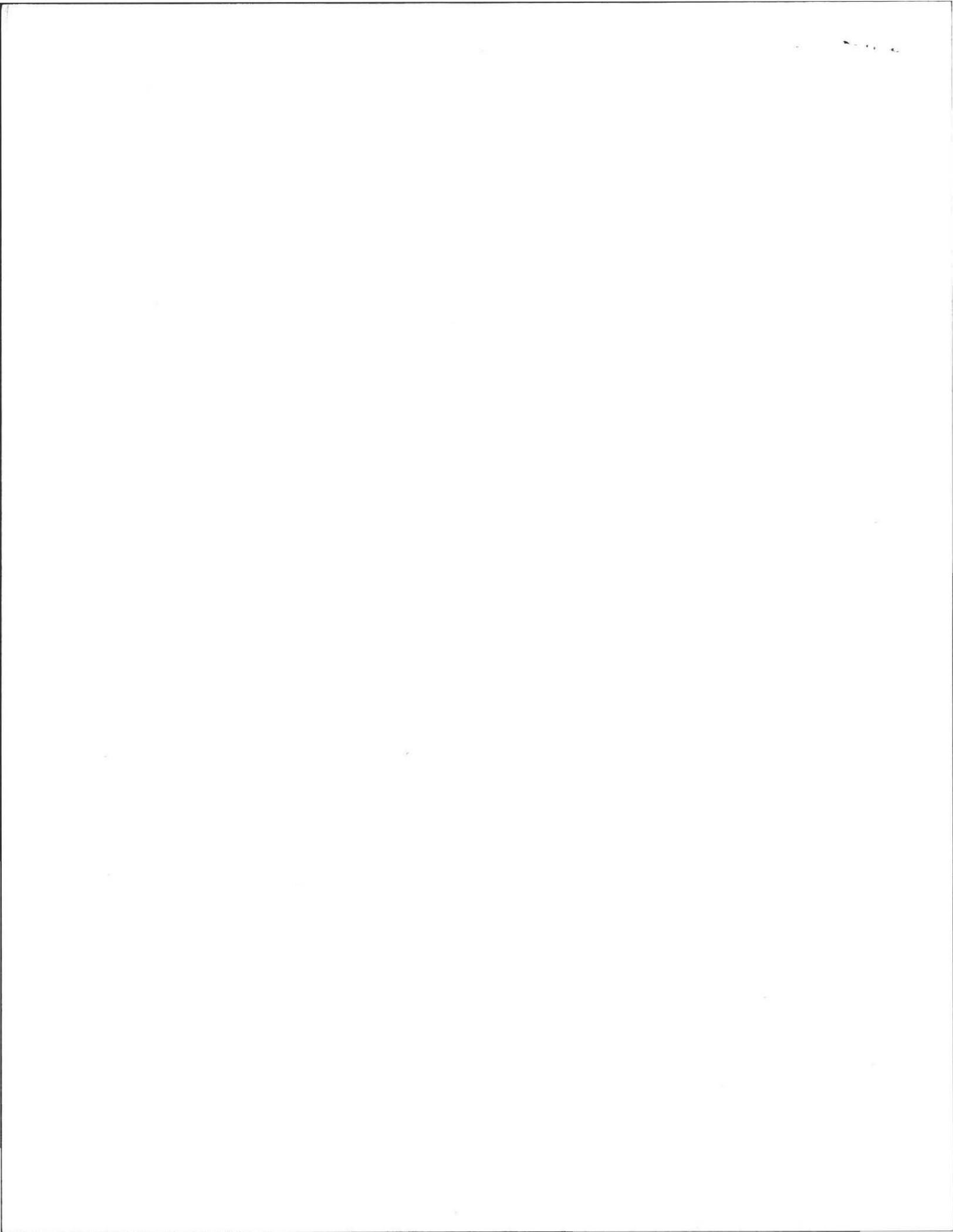
*Minimum of 1 percolation test must be performed in both the primary area AND Reserve area.

Site Passed: Site Failed:

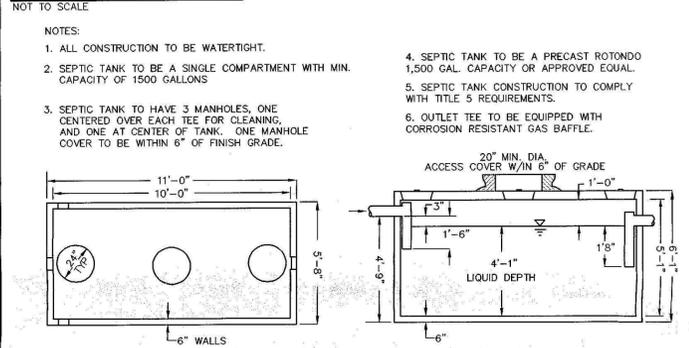
Performed By: Ed Hathaway

Witnessed By: Dave Zarozinski

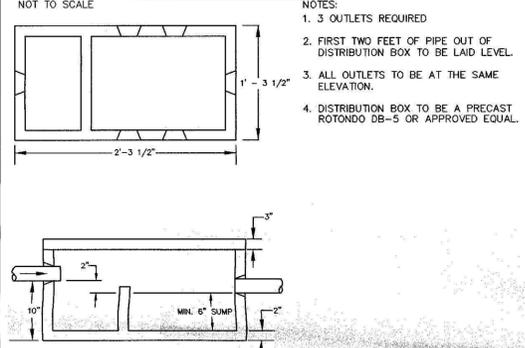
Comments: _____



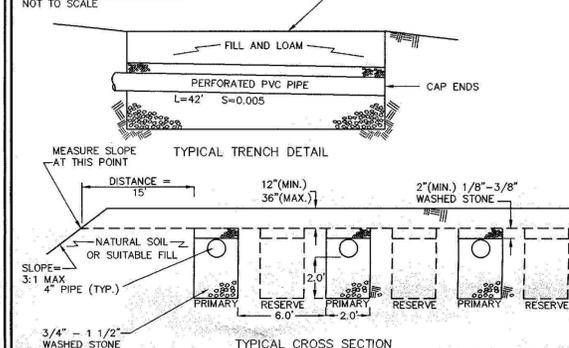
SEPTIC TANK DETAIL



DISTRIBUTION BOX DETAIL



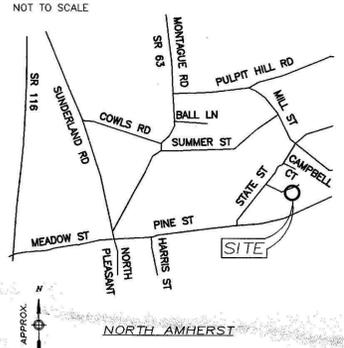
TRENCH DETAIL



INV/ELEV TABLE

HOUSE	
INV(out)	93.76'
SEPTIC TANK(in)	93.56'
SEPTIC TANK(out)	93.31'
DIST. BOX(in)	91.91'
DIST. BOX(out)	91.74'
LEACHING TRENCH (in)	91.69'
LEACHING TRENCH (end)	91.48'
LEACHING SYSTEM (bottom)	89.48'
GROUNDWATER NOT ENCOUNTERED	

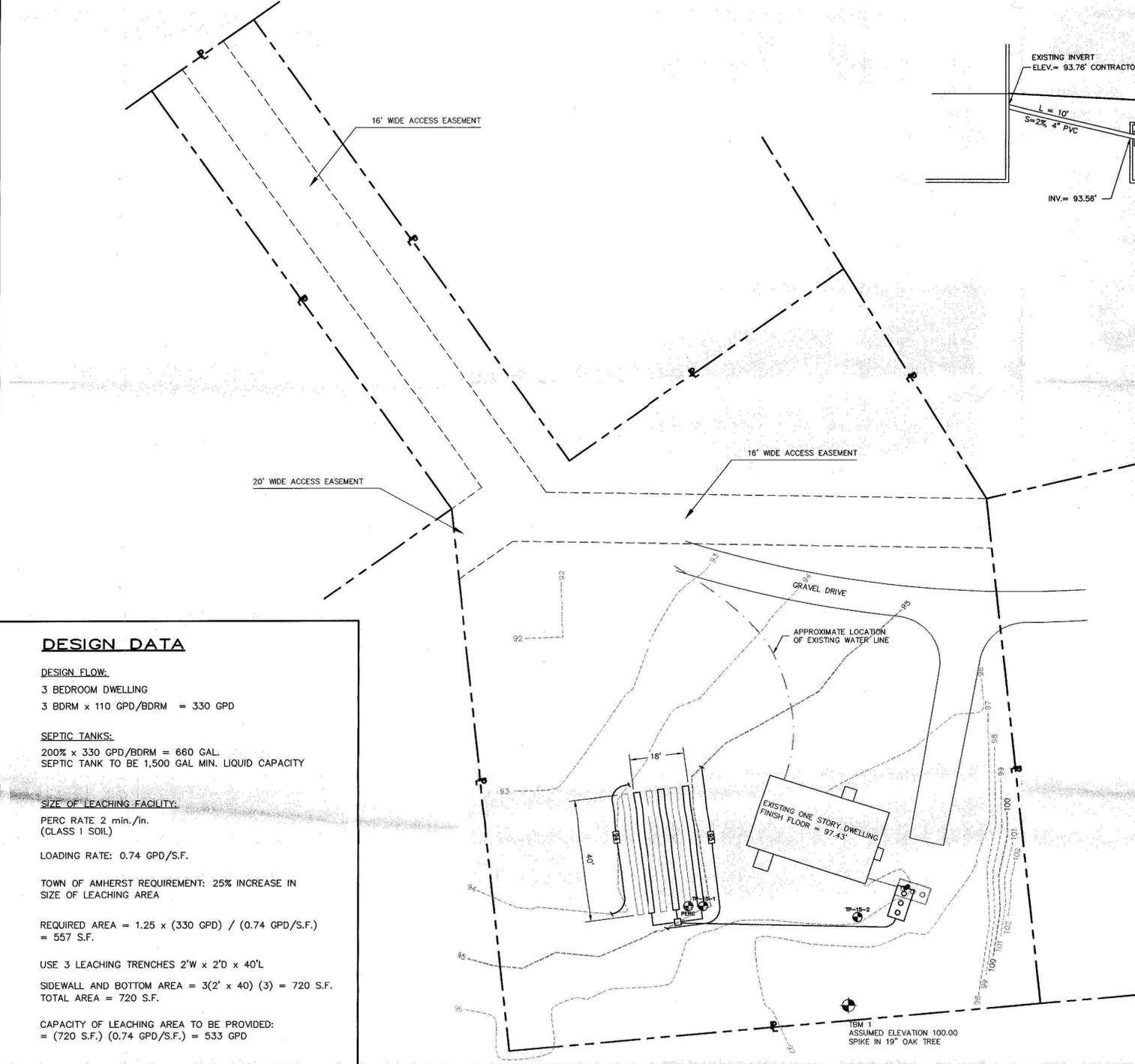
LOCUS



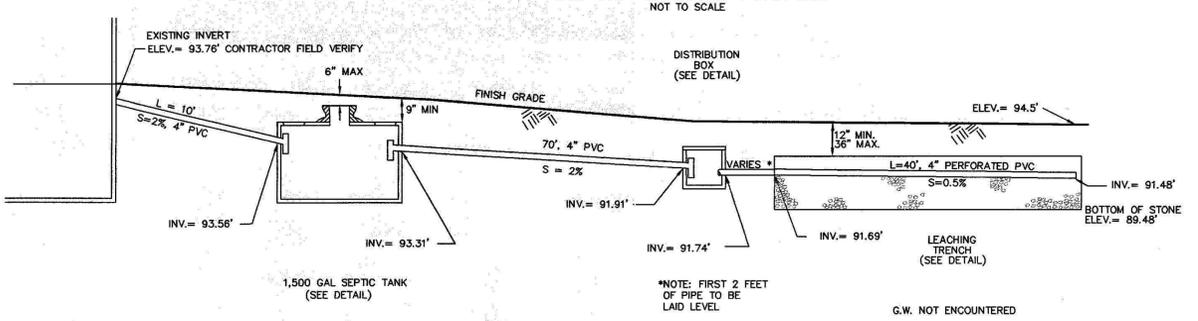
REVISIONS:

No.	DATE	LOCATION AND INVERT ELEVATIONS OF PROPOSED SEPTIC TANK
1	3/4/98	

- GENERAL NOTES:**
- THIS PLAN IS TO BE USED FOR THE DESIGN & CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM ONLY.
 - CONSTRUCTION METHODS & MATERIALS SHALL CONFORM TO MASSACHUSETTS DEP TITLE 5 AND TOWN OF AMHERST BOARD OF HEALTH REGULATIONS.
 - CONFIRMATION OF THE CONSTRUCTION OF THIS PLAN IS REQUIRED. COLER & COLANTONIO, INC. SHALL BE NOTIFIED FOR INSPECTION:
 - WHEN EXCAVATION IS COMPLETE AND PRIOR TO PLACEMENT OF STONE.
 - AFTER INSTALLATION OF SYSTEM AND PRIOR TO BACKFILL OVER SYSTEM.
 - AFTER FINAL GRADING.
 PROCUREMENT OF THESE SERVICES IS THE RESPONSIBILITY OF THE OWNER/INSTALLER.
 - PROPERTY LINE INFORMATION IS TAKEN FROM A PLAN ENTITLED "PLAN OF LAND IN AMHERST, MASSACHUSETTS SURVEYED FOR RONALD BERGUME" BY HAROLD L. EATON DATED SEPTEMBER 21, 1988. COLER & COLANTONIO, INC. BEARS NO RESPONSIBILITY FOR THE DEPICTION THEREOF.
 - SEPTIC SYSTEM DESIGN DOES NOT INCLUDE A GARBAGE GRINDER.
 - ALL PVC PIPING TO BE SCHEDULE 40.
 - TO THE BEST OF OUR KNOWLEDGE NO PUBLIC WATER SUPPLY WELLS ARE WITHIN 400' OF THE LEACHING AREA.
 - REMOVE UNSUITABLE MATERIAL (TOP & SUB SOIL) TO 26" DEPTH AS SHOWN ON TEST PITS, 5' BEYOND LIMITS OF S.A.S. REPLACE WITH SUITABLE MATERIAL MEETING TITLE 5 REQUIREMENTS.
 - SEPTIC TANK SHALL BE SERVICED AT LEAST ONCE EVERY THREE YEARS.
 - SEPTIC SYSTEM DESIGN CONFORMS TO 310 CMR 15.00, STATE ENVIRONMENTAL CODE, TITLE 5. THE ENGINEER DOES NOT GUARANTEE THAT THE SYSTEM WILL FUNCTION.



SEPTIC SYSTEM PROFILE



LEGEND

- EXISTING 1' CONTOURS
- EXISTING 5' CONTOURS
- PROPOSED CONTOURS
- EXISTING SEPTIC TANK
- PROPOSED SEPTIC TANK
- 4" PVC SEWER
- UNDERGROUND WATER LINE
- TEST PIT
- PROPERTY LINE

SOIL LOGS

Depth from Surface (in)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders Consistency, % Gravel)
0 - 13	Ap	Sandy Loam	10YR3/2	NONE OBSERVED	Gravel; Cobbles
13 - 26	Bw	Sand	10YR5/6		
26 - 54	C1	Sand	10YR6/4		
54 - 120	C2	Sand	10YR5/4		

Test Pit Number: TP-15-1 Date: 1/15/98
 Estimated Seasonal High Ground Water: NOT ENCOUNTERED
 Depth to Standing Ground Water: NOT ENCOUNTERED

Depth from Surface (in)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders Consistency, % Gravel)
0 - 13	Ap	Sandy Loam	10YR3/2	NONE OBSERVED	Gravel; Cobbles
13 - 26	Bw	Sand	10YR5/6		
26 - 54	C1	Sand	10YR6/4		
54 - 120	C2	Sand	10YR5/4		

Test Pit Number: TP-15-2 Date: 1/15/98
 Estimated Seasonal High Ground Water: NOT ENCOUNTERED
 Depth to Standing Ground Water: NOT ENCOUNTERED

* REFER TO SOIL REPORT FOR MORE INFORMATION

COLER & COLANTONIO INC
 ENGINEERS AND SCIENTISTS
 (413) 665-5300
 Fax: (413) 665-5390
 1 Sugarloaf Street
 South Deerfield, MA 01373



TITLE:
SEPTIC SYSTEM REPLACEMENT PLAN
91 STATE STREET AMHERST, MA
 PREPARED FOR:
TOMLAN PROPERTIES
P.O. BOX 327
AMHERST, MA 01004

DATE: 2/4/98
 COMP./DESIGN: SJM
 CHECK: SEC
 DRAWN: EWH
 SCALE: 1" = 20'
 JOB NO.: 60-52
 DWG NO.: 60-52S1 SHEET 1 OF 1

DESIGN DATA

DESIGN FLOW:
 3 BEDROOM DWELLING
 3 BDRM x 110 GPD/BDRM = 330 GPD

SEPTIC TANKS:
 200% x 330 GPD/BDRM = 660 GAL.
 SEPTIC TANK TO BE 1,500 GAL MIN. LIQUID CAPACITY

SIZE OF LEACHING FACILITY:
 PERC RATE 2 min./in.
 (CLASS 1 SOIL)

LOADING RATE: 0.74 GPD/S.F.

TOWN OF AMHERST REQUIREMENT: 25% INCREASE IN SIZE OF LEACHING AREA

REQUIRED AREA = 1.25 x (330 GPD) / (0.74 GPD/S.F.) = 557 S.F.

USE 3 LEACHING TRENCHES 2'W x 2'D x 40'L
 SIDEWALL AND BOTTOM AREA = 3(2' x 40') (3) = 720 S.F.
 TOTAL AREA = 720 S.F.

CAPACITY OF LEACHING AREA TO BE PROVIDED:
 = (720 S.F.) (0.74 GPD/S.F.) = 533 GPD

3/4/98 - Inlet Pipe (From house to tank) must be w/ the center line of tank