

CORTLAND DRIVE

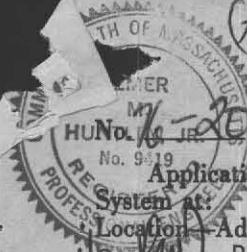


BOARD OF HEALTH, AMHERST, MASSACHUSETTS

APPLICATION FOR DISPOSAL WORKS CONSTRUCTION PERMIT

C. Drake

(#76-20A)



HUN No. 76-20A Date 11-5-76 Fee 15.00 Date Rec'd. \_\_\_\_\_ By CEO

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

Location—Address 10 Cortland Drive or Lot No. 4 & 5

Owner Birney Van Benschoten Address \_\_\_\_\_

Contractor ROB ADAM Address POTWINIE LA.

Type of Building house Dimensions approx. 30' x 60' Size Lot 64,009

Dwelling—No. of Bedrooms 2 Expansion Attic ( ) Garbage Grinder NO

Other \_\_\_\_\_ No. of persons 4 Showers ( )

Other fixtures \_\_\_\_\_

Town Water? yes Type of Well \_\_\_\_\_

Design Flow 50 gallons per person per day. Total daily flow 200 gallons

Septic Tank—Liquid capacity 1200 gallons Dimensions: L 10'0" W 5'0" D 5'-4"

Disposal Trench—No. \_\_\_\_\_ Width \_\_\_\_\_ Total Length \_\_\_\_\_ Total leaching area \_\_\_\_\_ sq. ft.

Disposal Bed—No. \_\_\_\_\_ Diameter \_\_\_\_\_ Depth below inlet \_\_\_\_\_ Total leaching area 325 sq. ft.

Dry Well—No. 1 Diameter 6'+ Depth below inlet 7'7" Dimensions: 8'5" x 10'+ x \_\_\_\_\_

Other: Distribution box ( ) No. \_\_\_\_\_ Dosing tank ( )

(Depth of Soil Line Below finished grade at foundation \_\_\_\_\_)

Percolation Test Results Performed by J. Hart - Huntley & Assoc. Date 4/30/73

Test Pit No. 1 \_\_\_\_\_ minutes per inch Depth of Test Pit 10'0"

Test Pit No. 2 1.3 minutes per inch Depth of Test Pit 3'6"

Description of Soil see attached sheet Depth to Ground Water none

Will disposal area be filled? no Cut down? no

(On reverse side or separate sheet, show plot plan with building. Include dimensions, distances from all boundaries. Show location of wells, streams, ledge, large trees, etc.)

AGREEMENT: The undersigned agrees to construct the aforedescribed individual sewage disposal system in accordance with the provisions of Article XI of the Sanitary Code and regulations of the Amherst Board of Health. The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by this board of health.

Application Approved by [Signature] Owner or builder [Signature] Date Oct 5, 1972

Application Disapproved for the following reasons: \_\_\_\_\_ date 11-5-76

BOARD OF HEALTH, AMHERST, MASSACHUSETTS

CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY That the individual Sewage Disposal System installed (X) or repaired ( ) by Bob Adam at Coerignode 4+5 has been constructed in accordance with the provisions of

Article XI of the State Sanitary Code as described in the application for Disposal Works Construction Permit No. 76-20A dated 11-5-76

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

DATE 4-6-77 Inspector [Signature]

BOARD OF HEALTH, AMHERST, MASSACHUSETTS

DISPOSAL WORKS CONSTRUCTION PERMIT

No. 76-20A- Permission is hereby granted Birney Van Benschoten to construct (X) or repair ( ) an

Individual Sewage Disposal System at LOTS 4+5 CORTLAND DR.

as shown on the application for Disposal Works Construction Permit No. 76-20

This permit is issued with the understanding that future alterations or additions will be made if necessary. This permit shall not be construed as permission to create or maintain any sewage nuisance and in the issuance of this permit the Board of Health assumes no responsibility for the future operation or maintenance of the system.

DATE 11-5-76 Board of Health [Signature]



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ALMER HUNTLEY, JR., & ASSOCIATES, INC.

SURVEYORS - ENGINEERS - PLANNERS

P.O. Box 568  
125 PLEASANT STREET  
NORTHAMPTON, MASS. 01060  
(413) 584-7444  
P-296

July 21, 1976

(Date)

Birney Van Benschoten

c/o Charlotte Kitchell

43 Canton Avenue

Amherst, MA 01002

On April 30, 1973 we completed percolation tests and observation pits for a proposed Individual Sewage Disposal System to be located at Lots 4 & 5, Cortland Drive, Amherst, MA.

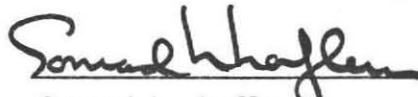
RESULTS AND RECOMMENDATIONS

- See attached sheets for results of tests
- Soil should be suitable if system is properly installed
- 1200 gallon septic tank for a daily flow of 600 gallons
- 325 square feet of leach area for a daily flow of 200 gallons
- More percolation tests should be taken
- More observation pits should be dug
- Soils are not suitable for a leaching area
- Contact your local Board of Health for additional information
- Application attached
- Plot Plan attached
- System detail sheets attached

Remarks:

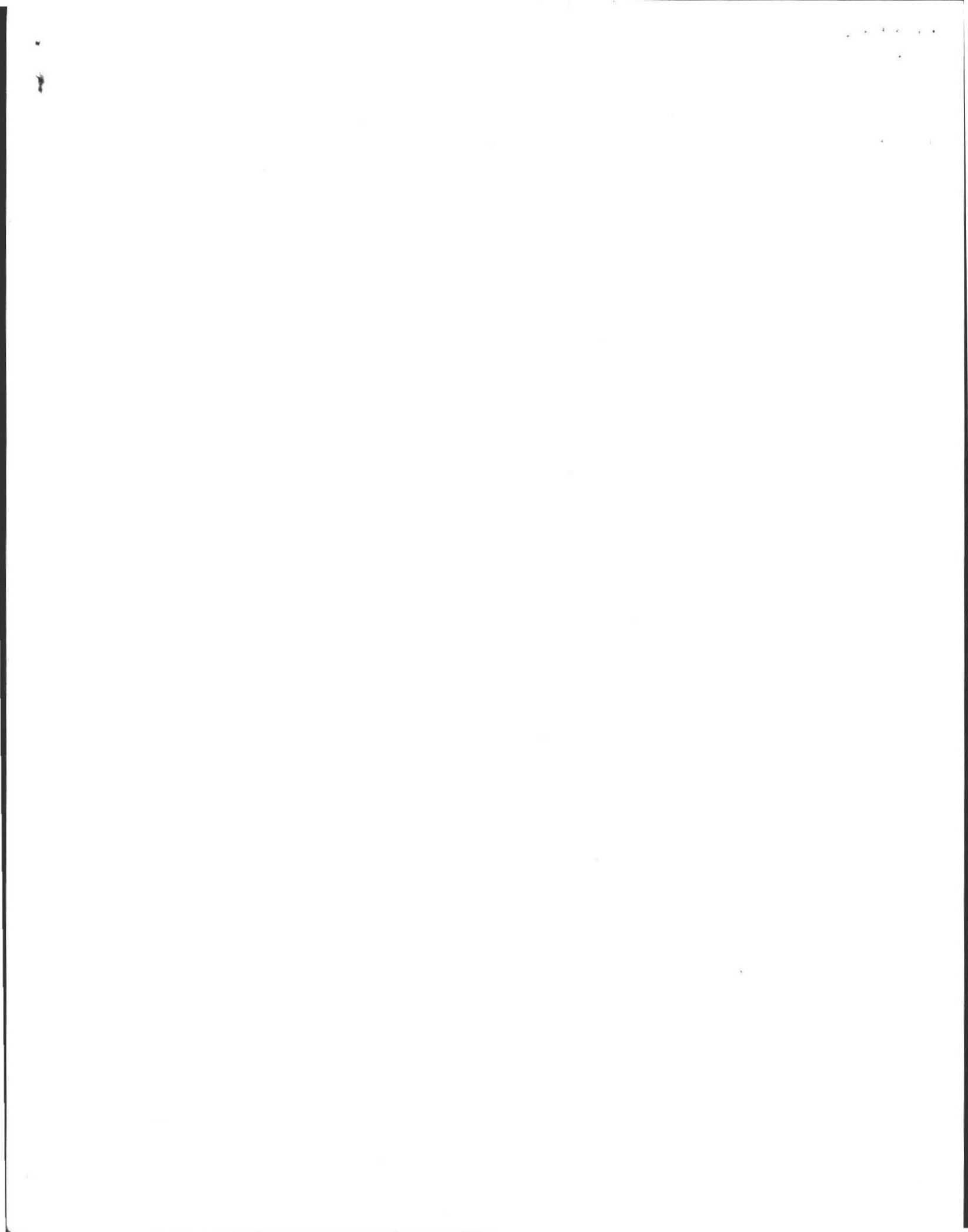
Very truly yours,

ALMER HUNTLEY, JR. & ASSOCIATES, INC.



Conrad L. Lafleur

THE ABOVE RECOMMENDATIONS DO NOT CONSTITUTE APPROVAL OR DISAPPROVAL OF SEWAGE DISPOSAL SYSTEM



PROPOSED DOMESTIC SUB-SURFACE DISPOSAL SYSTEM DESIGN

Prepared for: Birney Van Benschoten

Location: Cortland Drive, Amherst, MA

Number of Bedrooms: 2 Garbage Disposal: no

LEACH AREA DESIGN

2 Bedrooms X 2 persons/bedroom = 4 persons

4 Persons X 50 gallons of waste water/person per day =

200 total gallons waste water per day

Percolation Rate: 1.3 min./in.

Square feet of leach area required/gallon of waste water for a

Percolation Rate of 1.3 min./in. = 0.5 S.F./gallon

\* If a leach bed is to be installed, one S.F./gallon is the minimum area that can be used for a Perc. rate of 10 min./in. or less.

200 Total gallons of waste water per day X 0.5 S.F./gallon

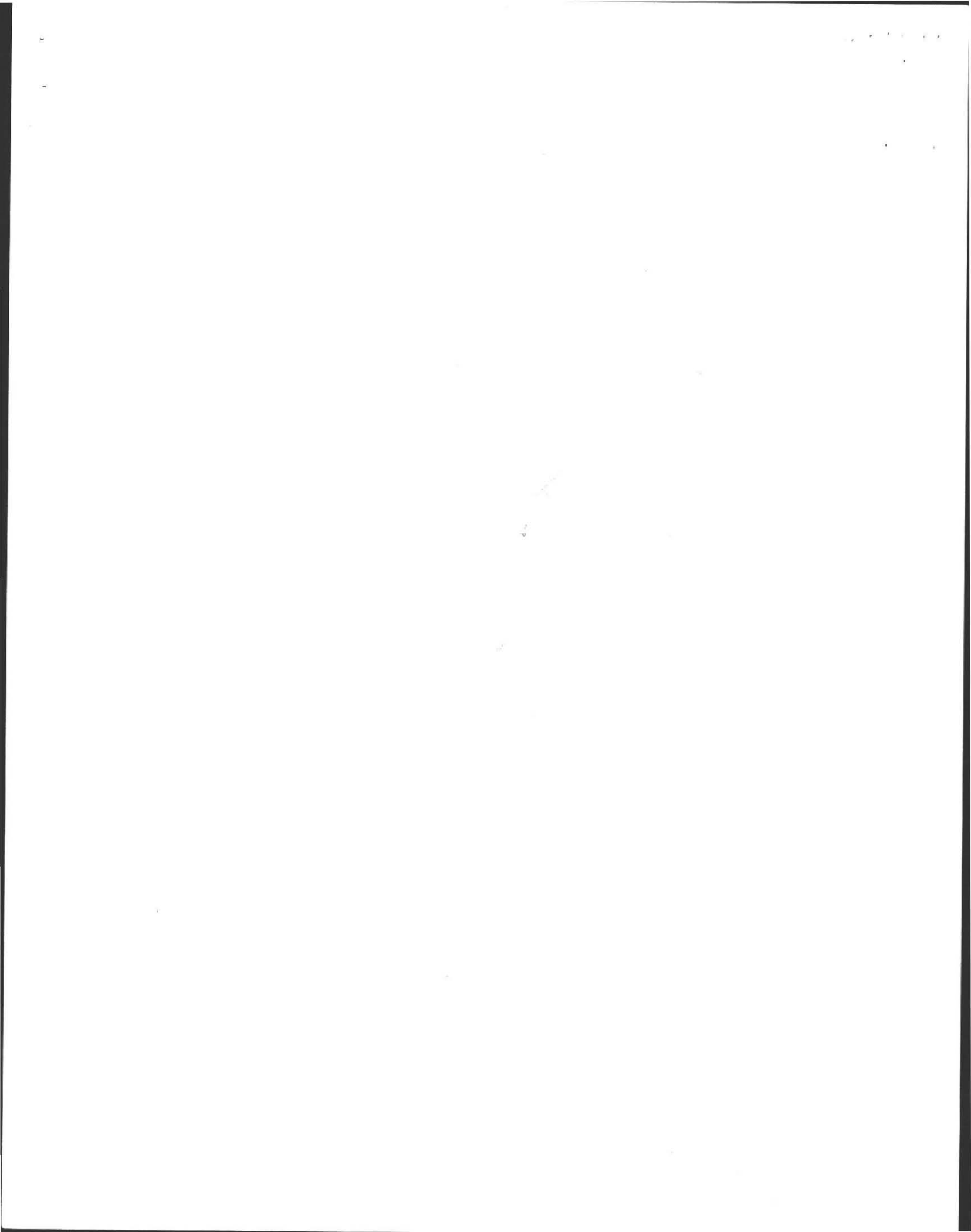
= 1.00 S.F. of leach area (required)

\* If a garbage disposal is installed, leach area will be increased by 25%

1.00 S.F. of leach area X 125% = 1.25 S.F. of leach area

RECOMMENDED LEACH AREA: 325

\*\* Minimum area for leaching trench or seepage pit is 0.5 square feet per gallon for a perc. rate of 2.0 min./in. or less.





SEPTIC TANK

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\* without Garbage Disposal

200 Gallons of waste water per day X 150% =

375 Required effective liquid capacity of septic tank

RECOMMENDED: 1200 Septic Tank

\* In no case will the septic tank be less than 750 gallons (effective liquid capacity).

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\*\* with Garbage Disposal

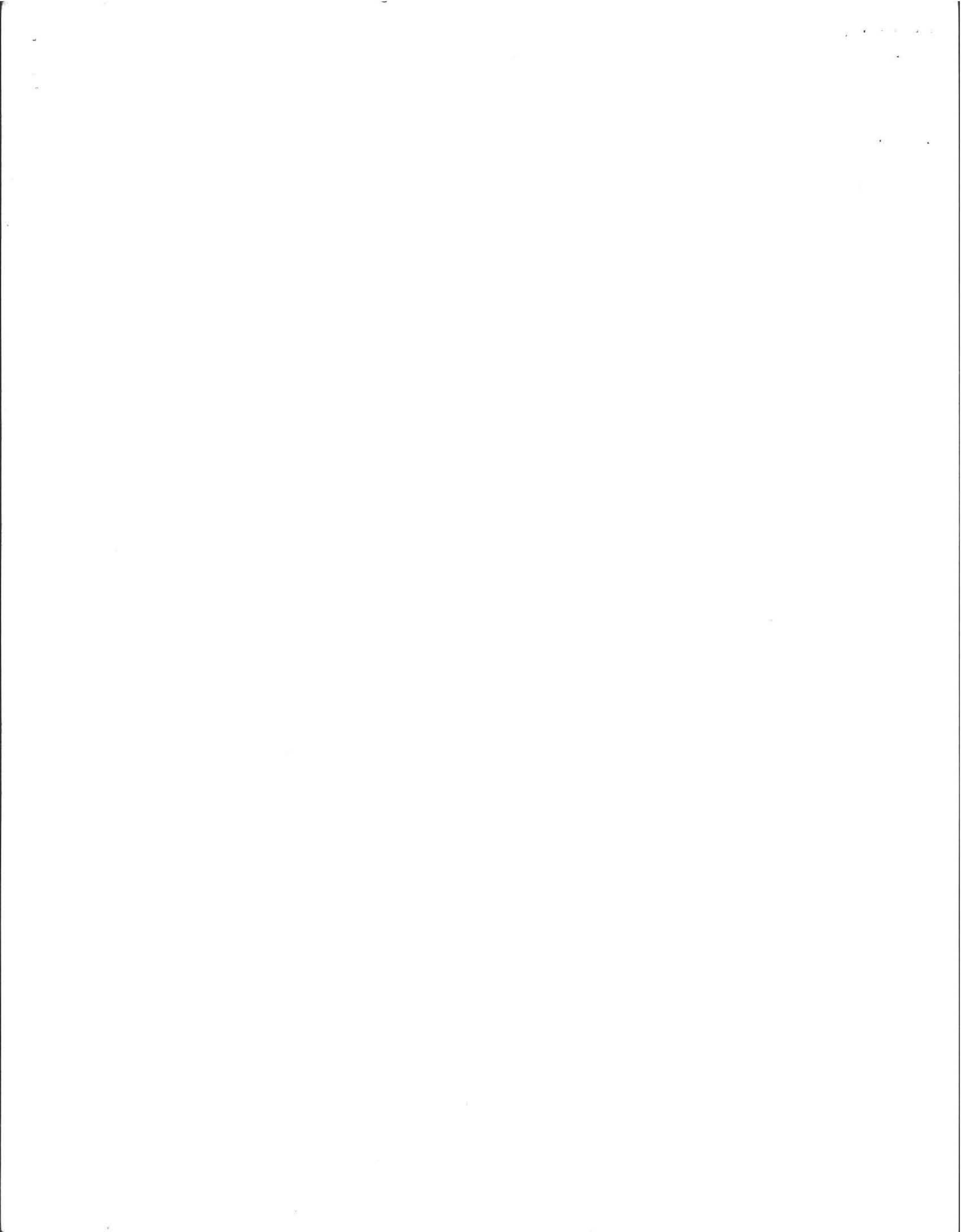
           Gallons of waste water per day X 200% =

           Required effective liquid capacity of septic tank

RECOMMENDED:            Septic Tank

\*\* In no case will the septic tank be less than 1500 gallons (effective liquid capacity).

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TYPE OF SYSTEM

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LEACH  
BED

Recommended Leach Area \_\_\_\_\_ S.F.

L = \_\_\_\_\_

W = \_\_\_\_\_

- \* The minimum lines per field is 2
- \*\* The maximum length per line is 100'  
(75' when daily flow is greater than 2000 gal.)

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LEACH  
TRENCH

Recommended Leach Area \_\_\_\_\_ S.F.

$\div$  3' wide = \_\_\_\_\_ feet of trench

\_\_\_\_\_ trench lines, \_\_\_\_\_ feet long

- \* The minimum lines per field is 2
- \*\* The maximum length per line is 100'  
(75' when daily flow is greater than 2000 gal.)

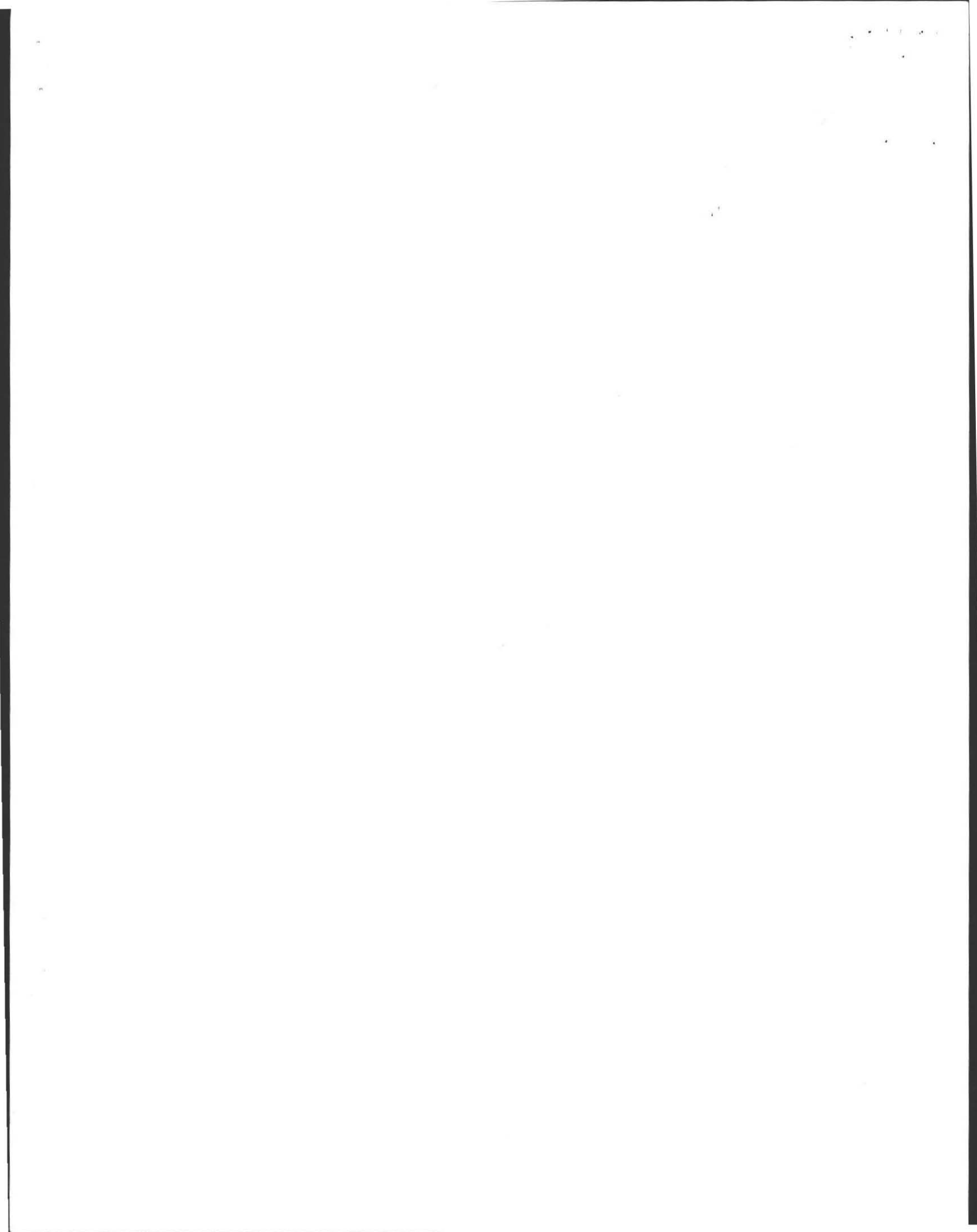
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LEACH  
PIT

Recommended Leach Area 275 S.F.

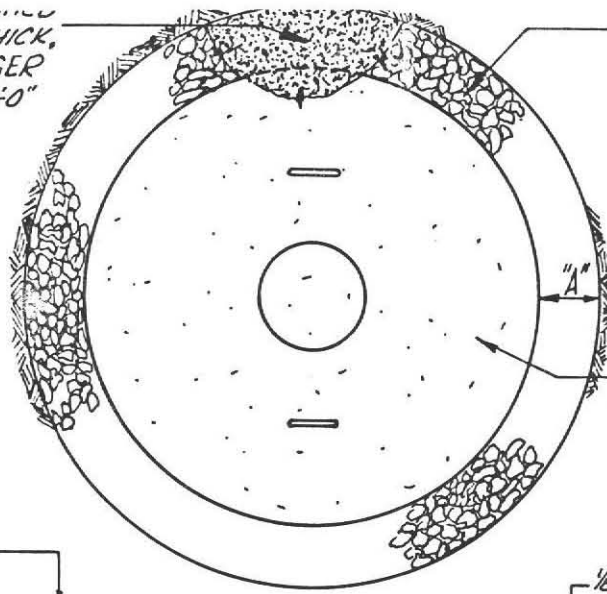
Check attached sheets for type of Pit and amount of stone

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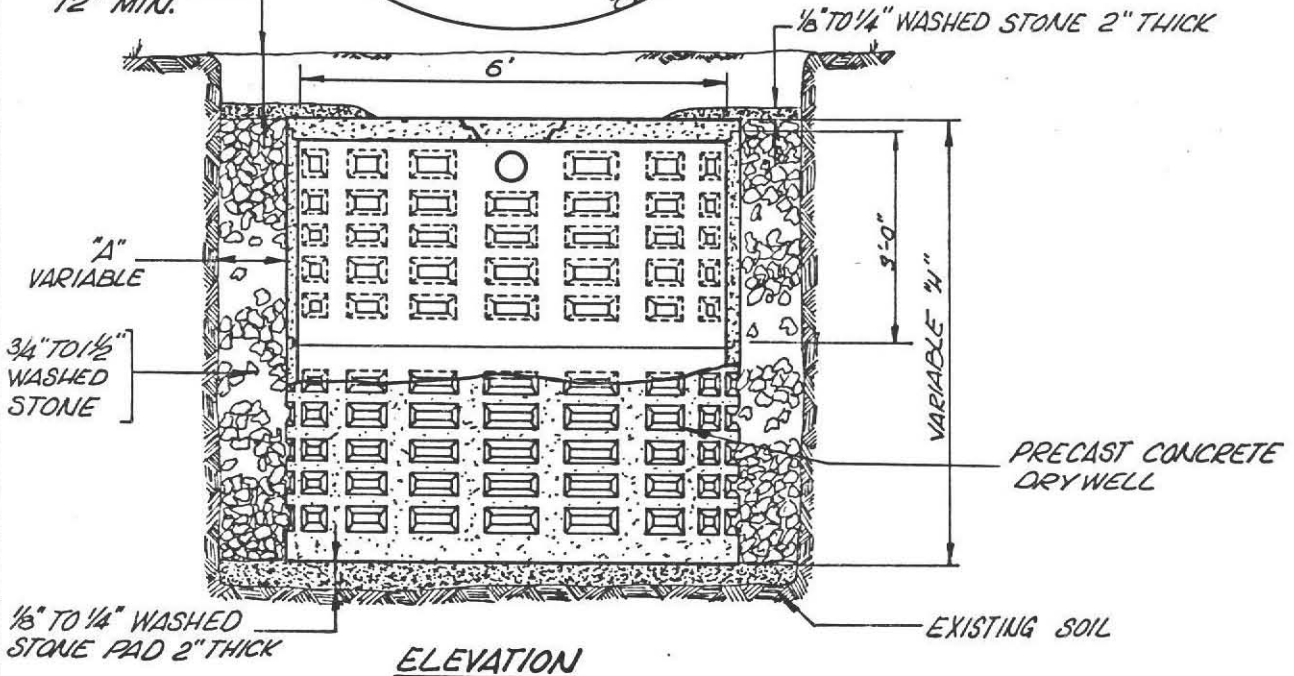
TO TOP WASHED  
STONE 2" THICK,  
COVER LARGER  
STONE & LAP 1'-0"  
ON TO FIT  
COVER.

3/4" TO 1 1/2" WASHED STONE



PRECAST CONCRETE  
DRYWELL

TOP SOIL  
12" MIN.



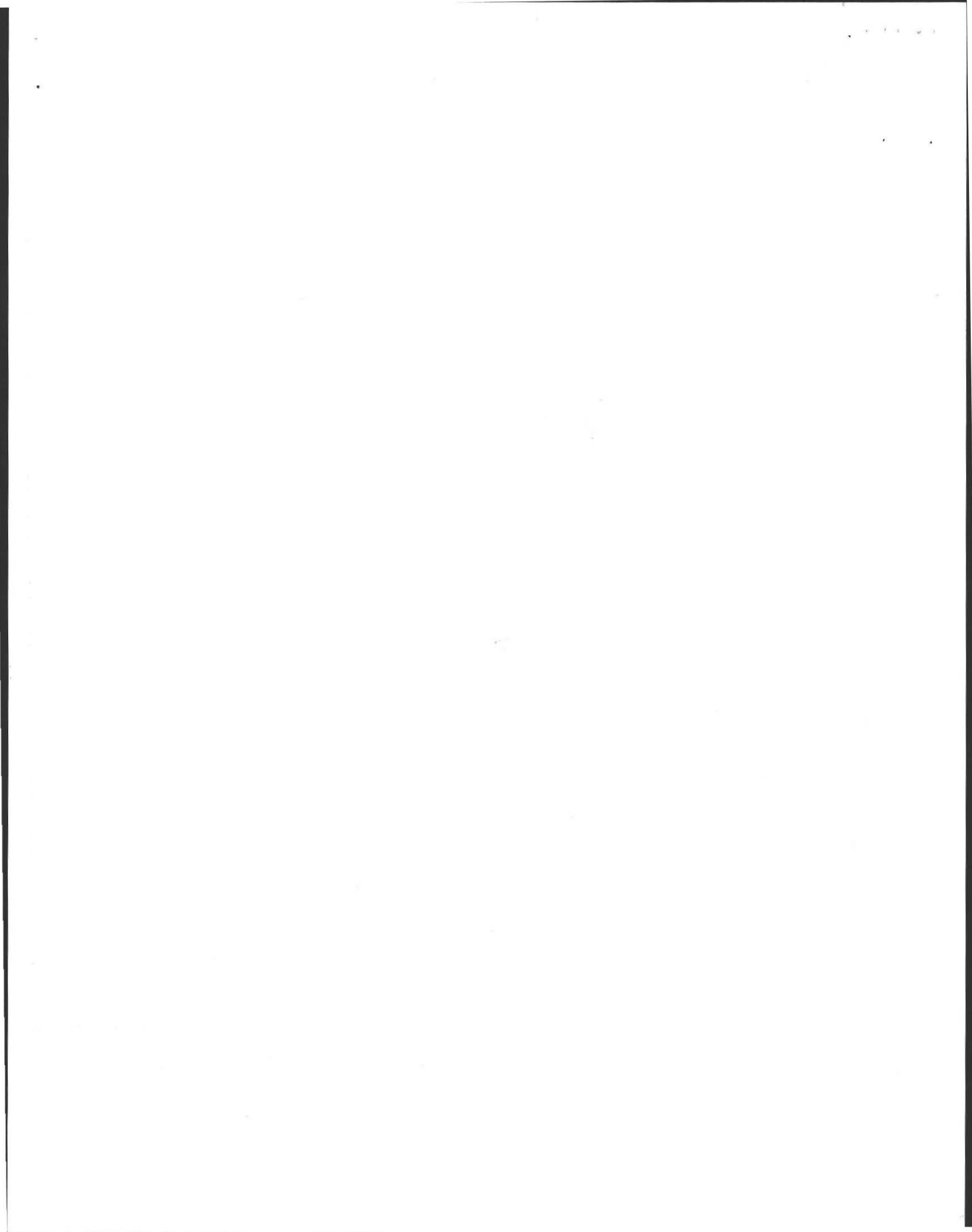
**ELEVATION**

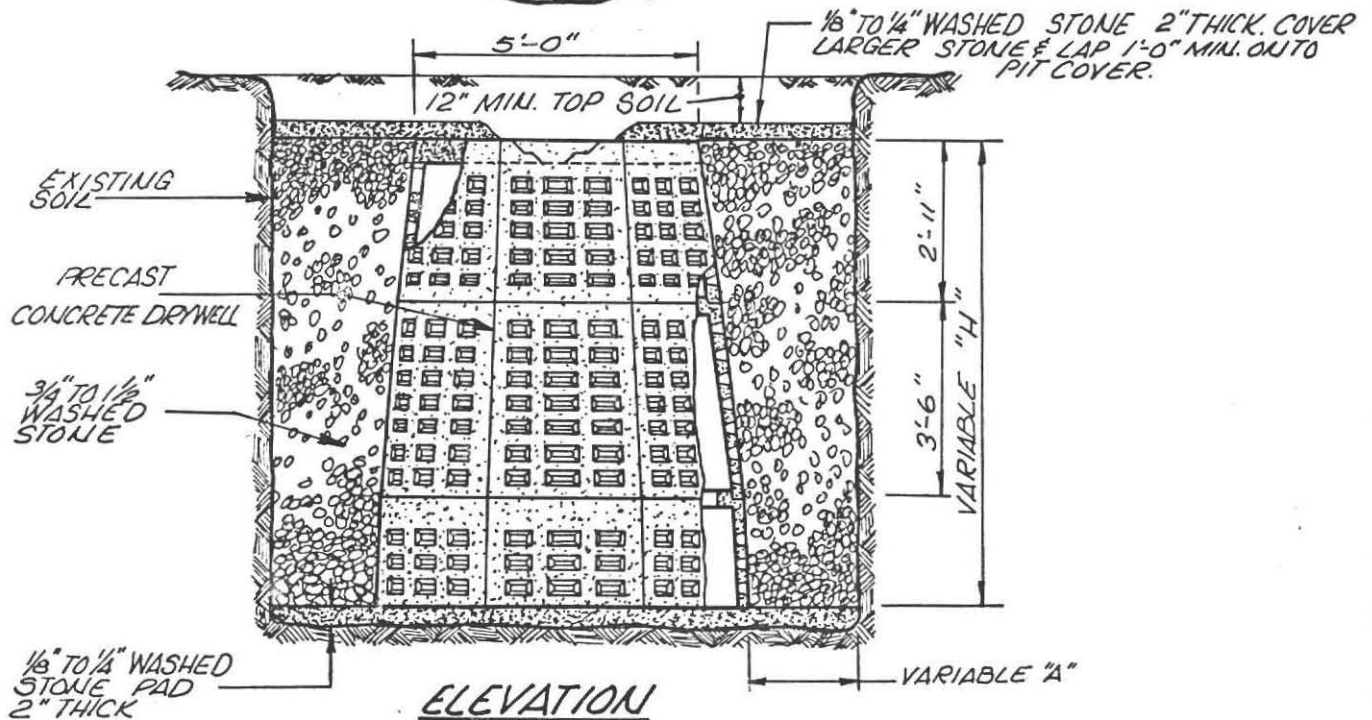
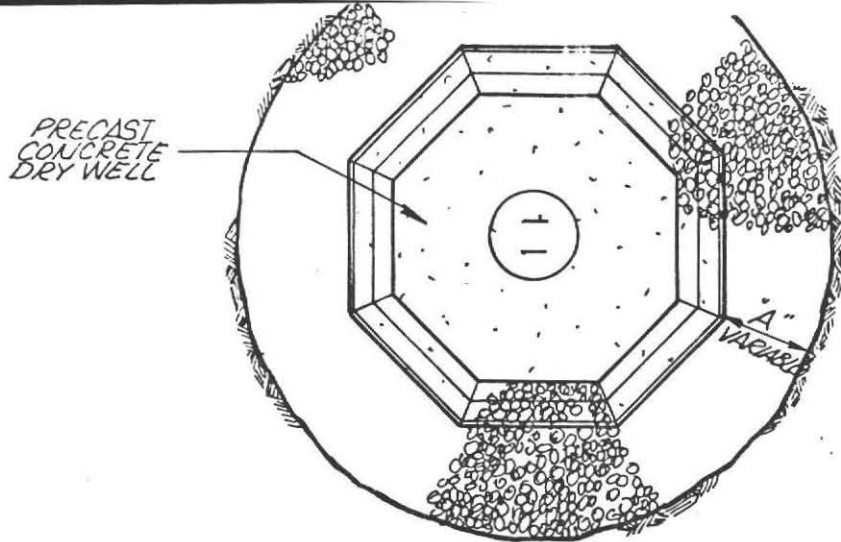
LEACHING AREA (SQ. FT.)					
"H" HEIGHT	No. SECTIONS	WASHED STONE ( FT.)			
		"A"=1'	"A"=2'	"A"=3'	"A"=4'
77"	2	200	275	350	425
113"	3	275	375	475	575

NOTE: • ALL WORK WILL BE DONE IN ACCORDANCE WITH ARTICLE XI OF THE  
STATE SANITARY CODE.

• SPACING WHEN MORE THAN ONE SEEPAGE PIT OR DRY WELL ARE BEING  
USED IS TO BE THREE TIMES THE EFFECTIVE OUTSIDE DIAMETER.

ALMER HUNTLEY, JR. & ASSOCIATES, INC.  
REGISTERED LAND SURVEYORS & CIVIL ENGINEERS  
125 PLEASANT STREET  
NORTHAMPTON, MASS





**ELEVATION**

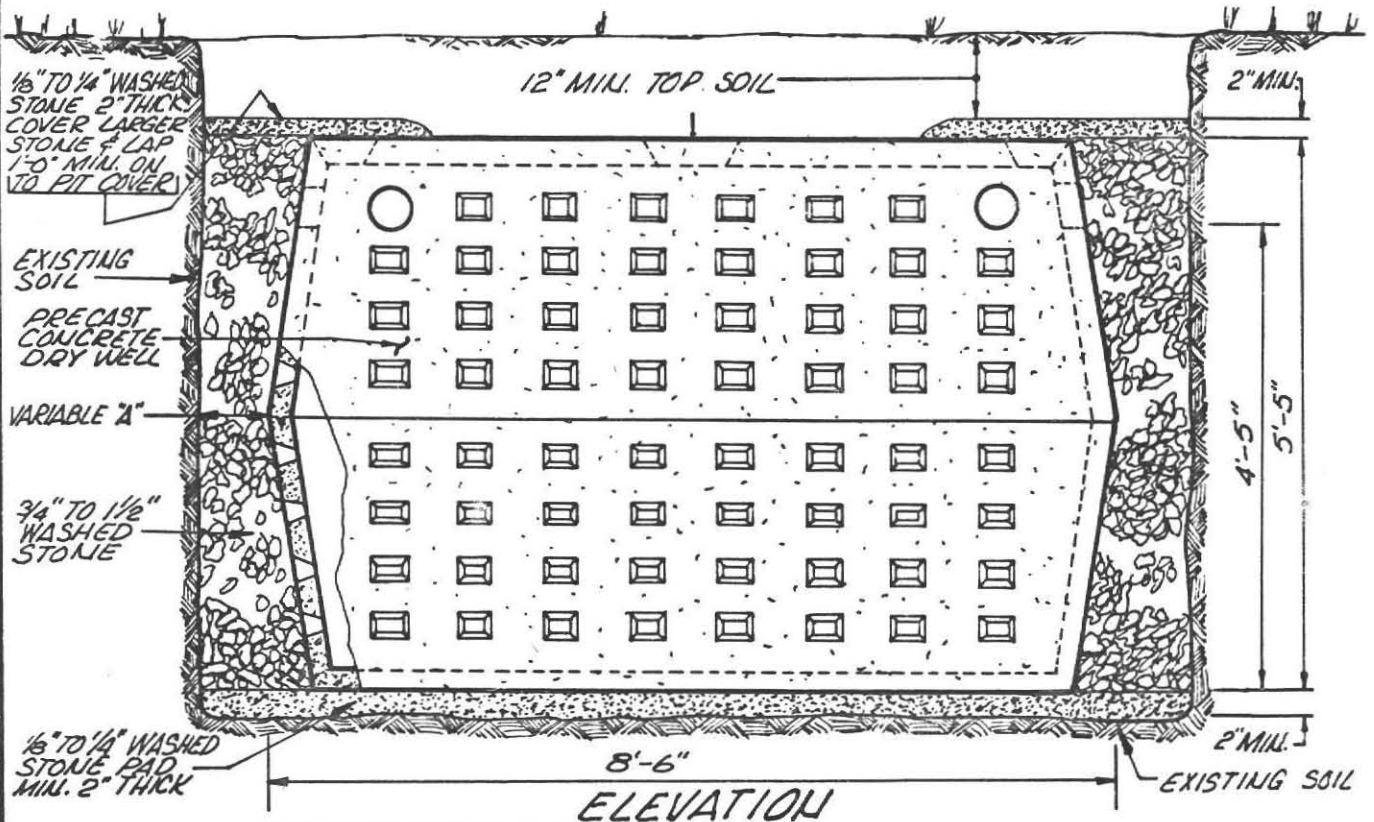
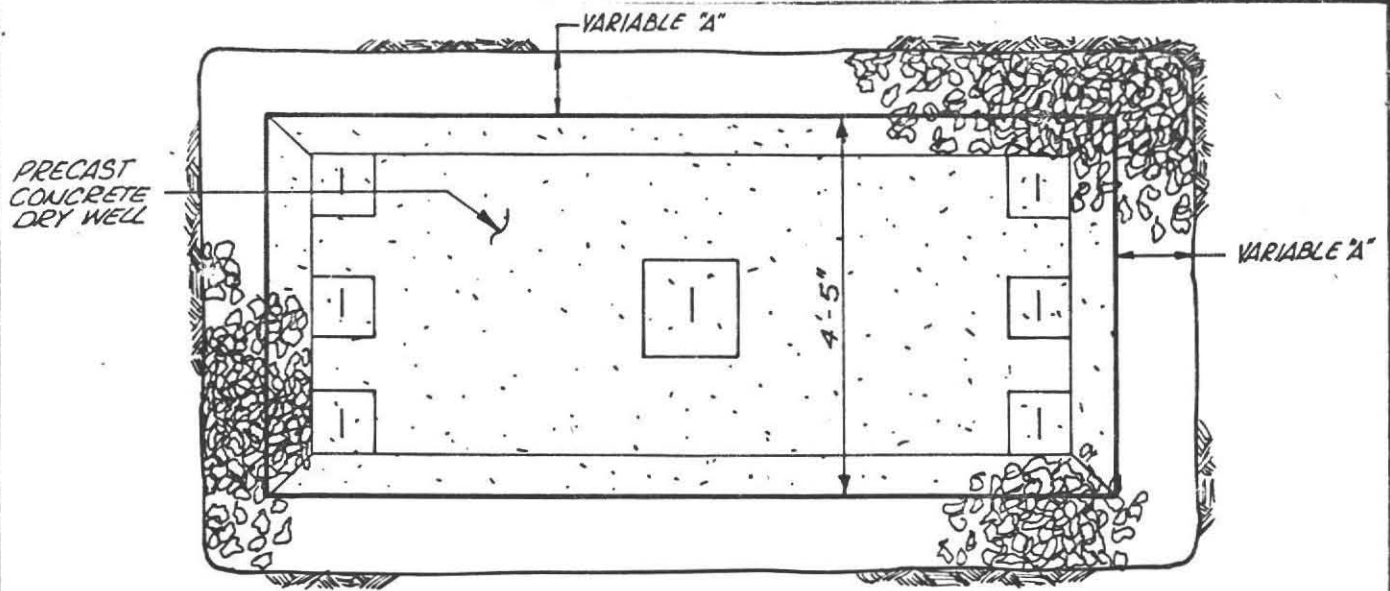
LEACHING AREA (SQ. FT.)					
"H" HEIGHT	No. SECTIONS	WASHED STONE (FT.)			
		"A"=1'	"A"=2'	"A"=3'	"A"=4'
6'-5"	2	200	275	350	425
8'-5"	3	250	325	425	500
10'-5"	4	300	400	500	600

- NOTE: • ALL WORK WILL BE DONE IN ACCORDANCE WITH ARTICLE XI OF THE STATE SANITARY CODE.
- SPACING WHEN MORE THAN ONE SEEPAGE PIT OR DRY WELL ARE BEING USE IS TO BE THREE TIMES THE LONGEST EFFECTIVE OUTSIDE DIMENSION.

**ALMER HUNTLEY, JR. & ASSOCIATES, INC.**  
 REGISTERED LAND SURVEYORS & CIVIL ENGINEERS  
 125 PLEASANT STREET  
 NORTHAMPTON, MASS.





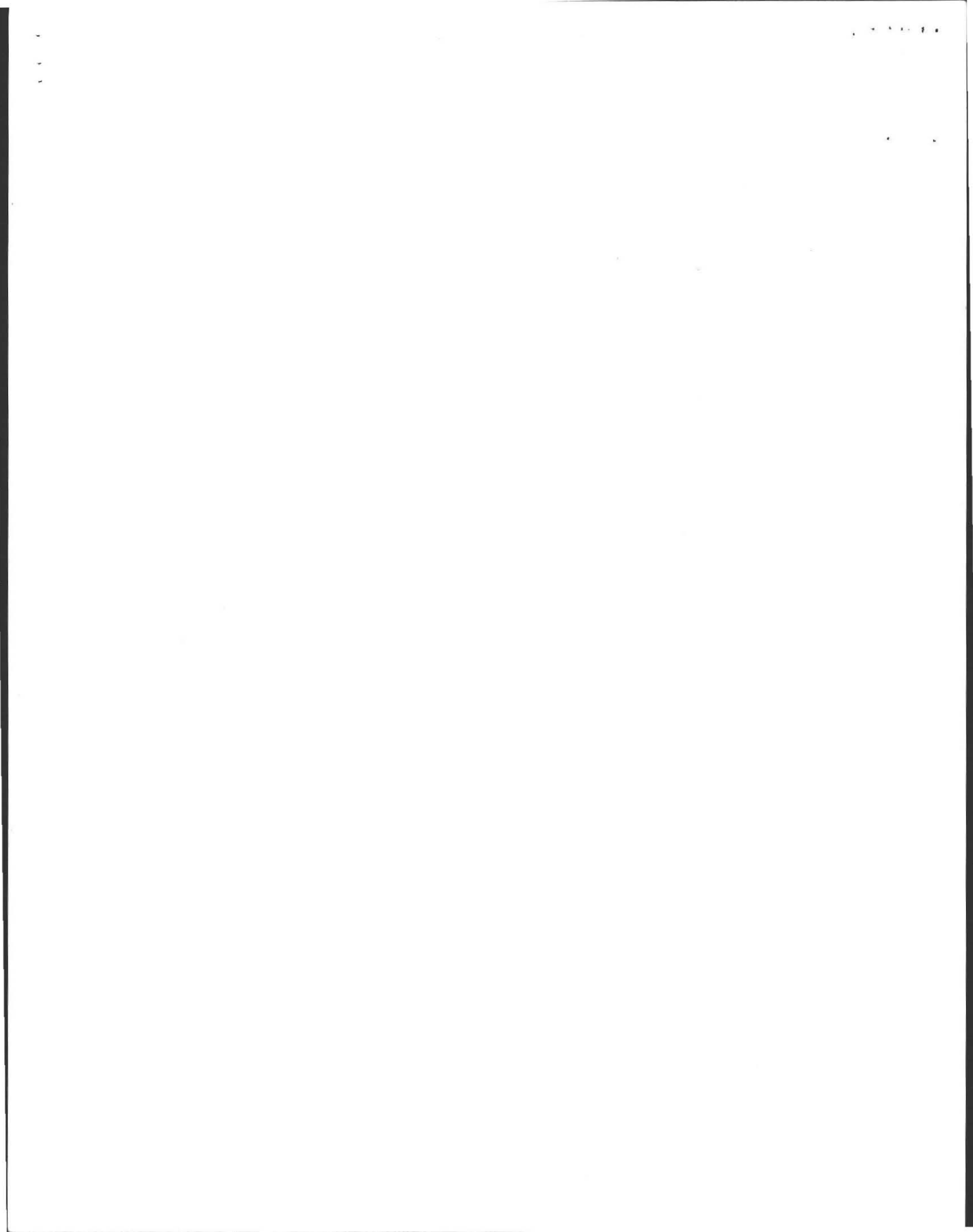


LEACHING AREA (SQ. FT.)				
HEIGHT	WASHED STONE (FT.)			
	A=1'	A=2'	A=3'	A=4'
5'-5"	175	250	325	425

NOTE: • ALL WORK WILL BE DONE IN ACCORDANCE WITH ARTICLE XI OF THE STATE SANITARY CODE.

• SPACING WHEN MORE THAN ONE SEEPAGE PIT OR DRY WELL ARE BEING USED IS TO BE THREE TIMES THE LONGEST EFFECTIVE OUTSIDE DIMENSION.

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 REGISTERED LAND SURVEYORS & CIVIL ENGINEERS  
 125 PLEASANT STREET  
 NORTHAMPTON, MASS.



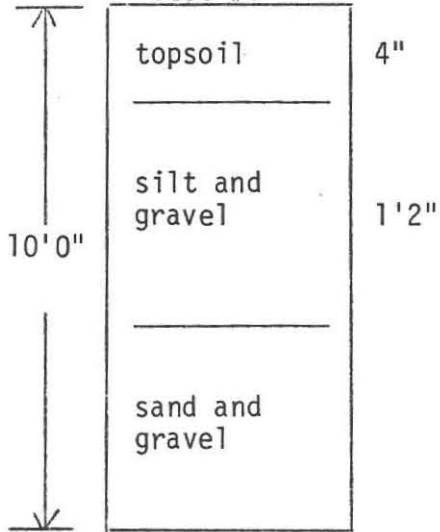
REQUESTED BY: Howard Atkins

LOCATION: Cortland Drive  
Amherst, MA

MAILING ADDRESS: \_\_\_\_\_

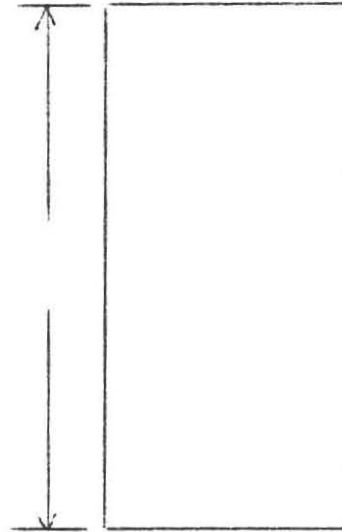
DATE: 4/30/73 OBSERVER: J. Hart

Lot #4  
Test #1



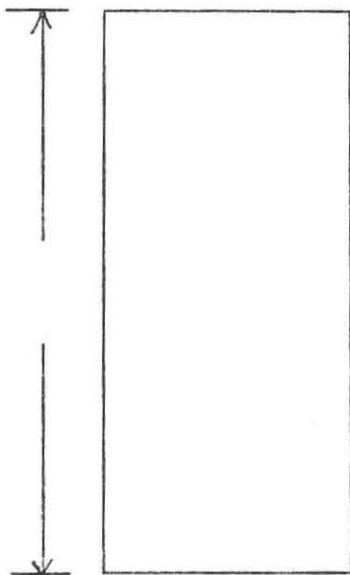
Groundwater none

Perc Rate 1.3 min/in



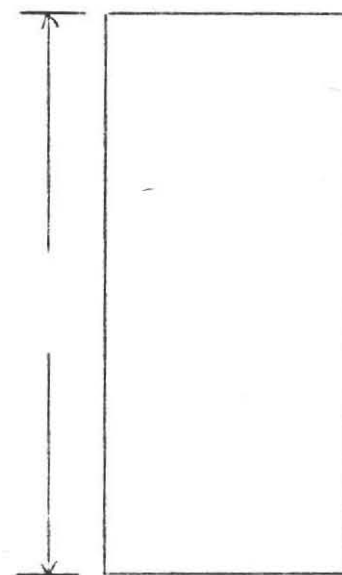
Groundwater \_\_\_\_\_

Perc Rate \_\_\_\_\_



Groundwater \_\_\_\_\_

Perc Rate \_\_\_\_\_

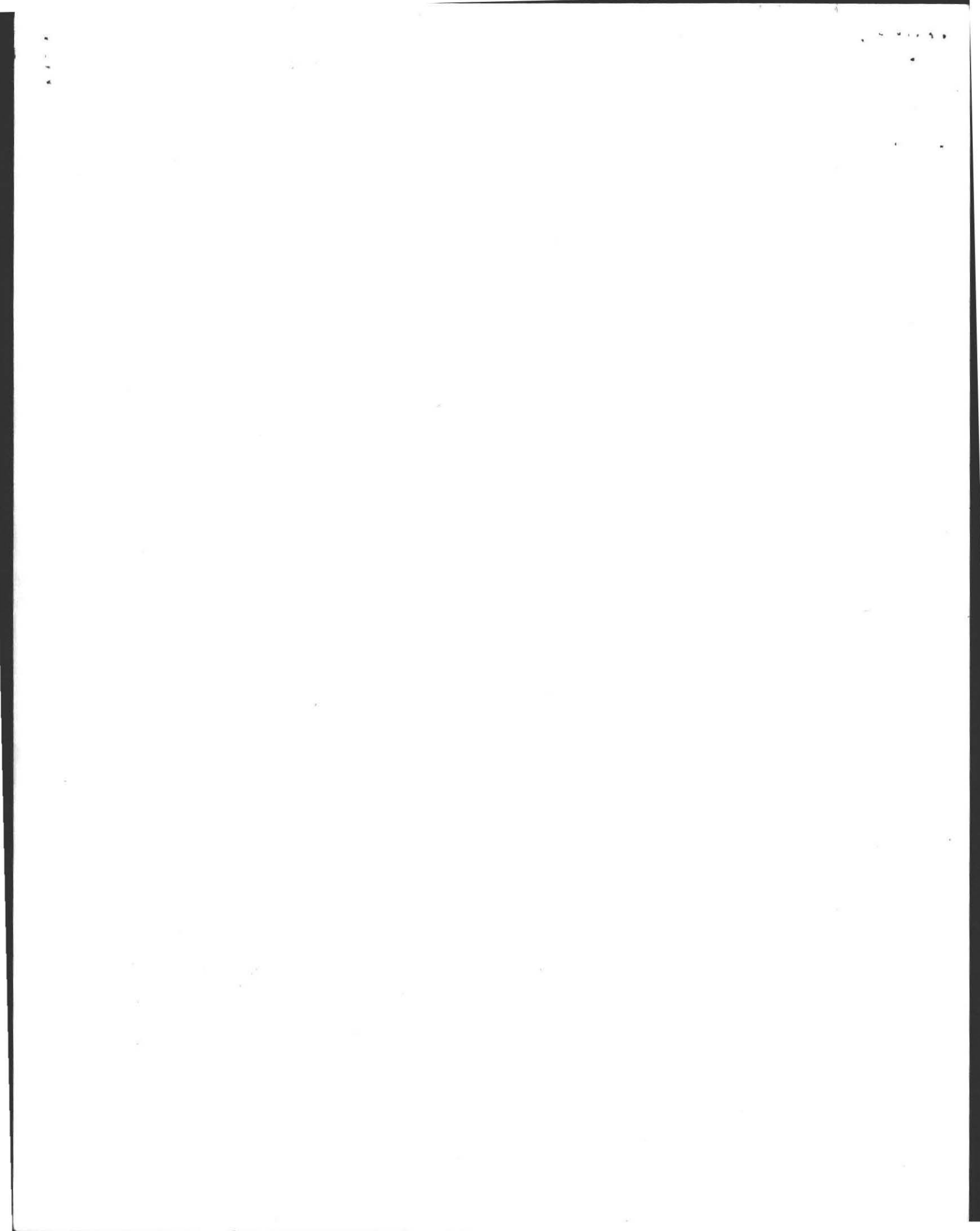


Groundwater \_\_\_\_\_

Perc Rate \_\_\_\_\_

\* Overnight Test

ALMER HUNTLEY, JR., & ASSOCIATES, INC.



BOARD OF HEALTH  
TOWN OF AMHERST, MASSACHUSETTS

*Carlton Dr*

Important Information Regarding Your Private Sewage Disposal System

DISPLAY THIS DOCUMENT IN A PROMINENT PLACE

Owner Berny Van Benschoten Address Cortland Drive

Installer Bob Adair Address POWING LANE

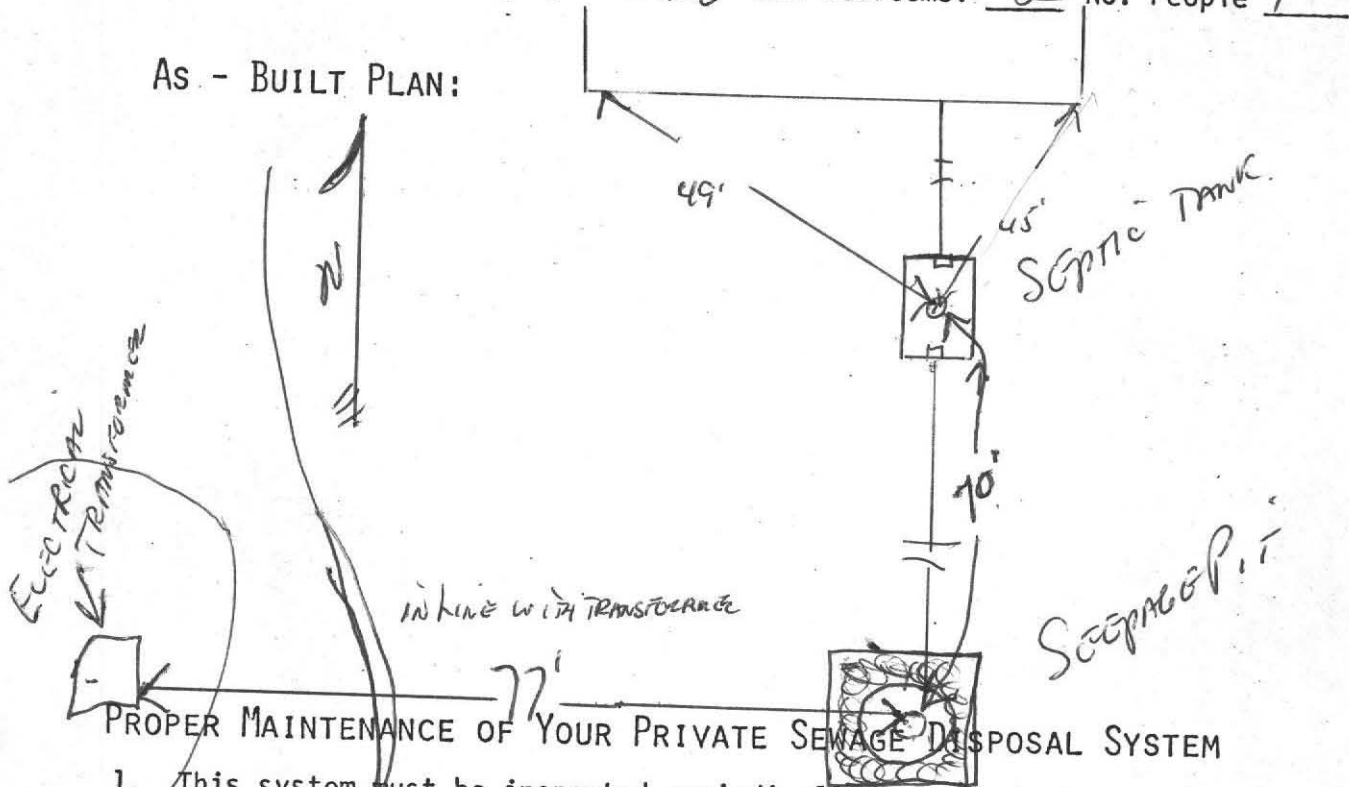
Date Installation Inspected and Approved April 1977

Description of System: Tank Capacity: 1200

Leach Field ( ) Bed ( ) Seepage Pit (x) Square Feet: 325

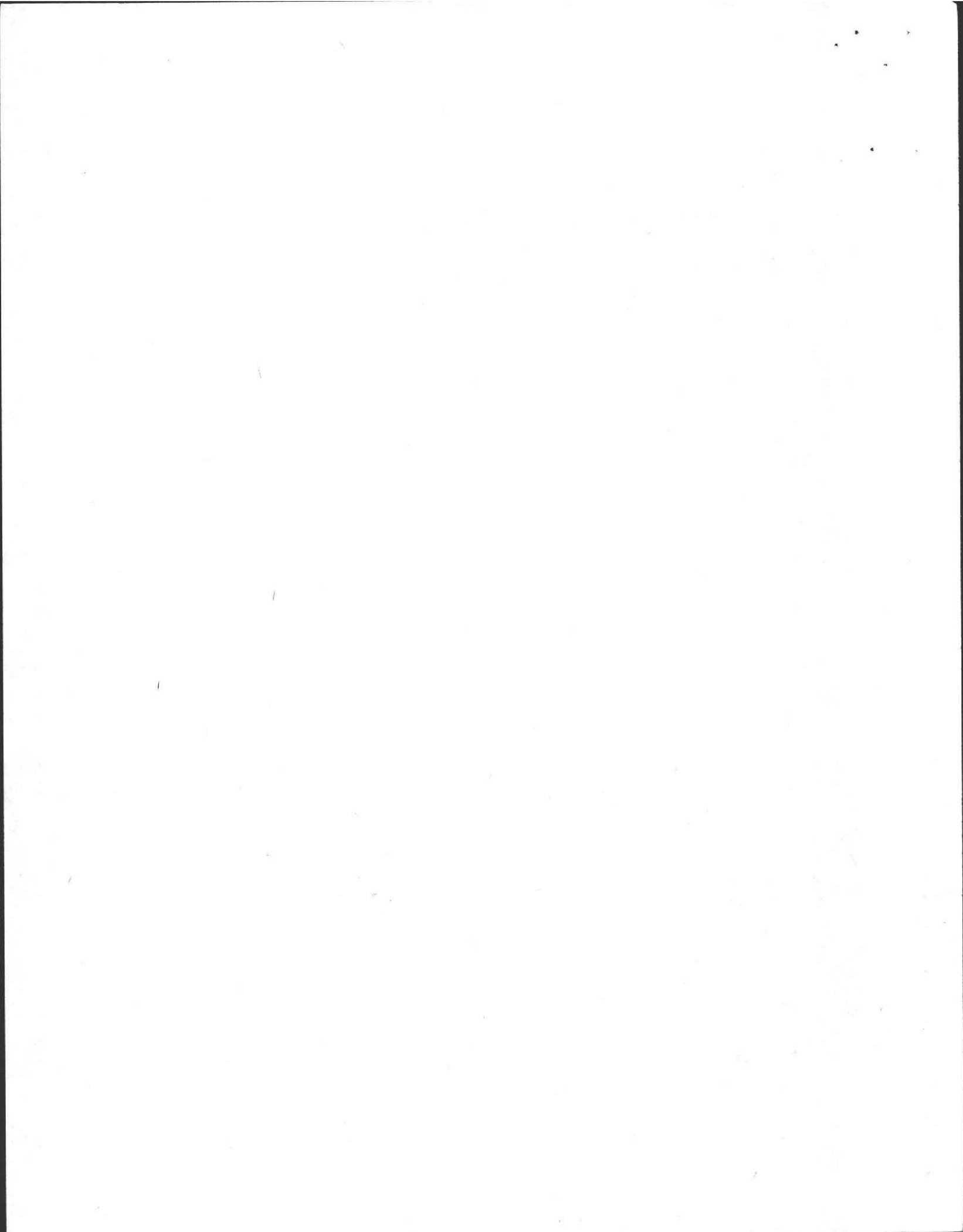
Garbage Grinder Yes ( ) No (N) No. Bedrooms: 2 No. People 4

AS - BUILT PLAN:



PROPER MAINTENANCE OF YOUR PRIVATE SEWAGE DISPOSAL SYSTEM

1. This system must be inspected periodically and the tank pumped out at an interval not to exceed \_\_\_\_\_ years.
2. For your protection sanitary pumpers are licensed by the Amherst Board of Health.
3. Regular pumping is crucial to avoid early failure and costly repairs of the system.
4. DO NOT dispose into the system such items as rags, string, sanitary napkins, coffee grounds as they can cause it to clog and fail.
5. Further information can be obtained by contacting your Health Department at 253-7077.



AMERICAN OVERSEAS PETROLEUM LIMITED  
380 MADISON AVENUE  
NEW YORK, N. Y. 10017

BIRNEY M. VAN BENSCHOTEN  
VICE PRESIDENT AND GENERAL COUNSEL

Sent from Jakarta, Indonesia

10 November 1976

Health Office  
Town of Amherst, Massachusetts  
Amherst, Massachusetts  
U. S. A.

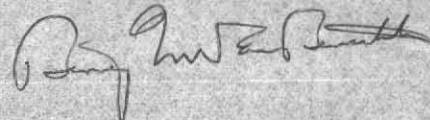
Gentlemen:

My wife, Edwarda, and I are the owners of Lots 4 and 5 on the south side of Cortland Drive in the South Amherst section of Amherst, per deeds (a) for Lot 5, recorded by the Hampshire County Register of Deeds in August 1976 (day illegible) in Book 1903 at Page 348, and for the adjoining Lot 4, similarly recorded on 4 January 1974, in Book 1752, page 230.

We hereby request - and authorize Mr. E. Thomson Hornketh of Greenfield, Massachusetts, as our representative and agent to make any necessary application in our names and to secure - such Health Permit as is necessary and appropriate for the building of a one family home on these lots. It is our present plan to place the house on Lot 4, but the septic tank would be on Lot 5.

Thanks for your kind assistance.

Sincerely,





AMERICAN OVERSEAS PETROLEUM LIMITED  
380 MADISON AVENUE  
NEW YORK N.Y. 10017

BIRNEY M. VAN BENSCHOTEN  
VICE PRESIDENT AND GENERAL COUNSEL

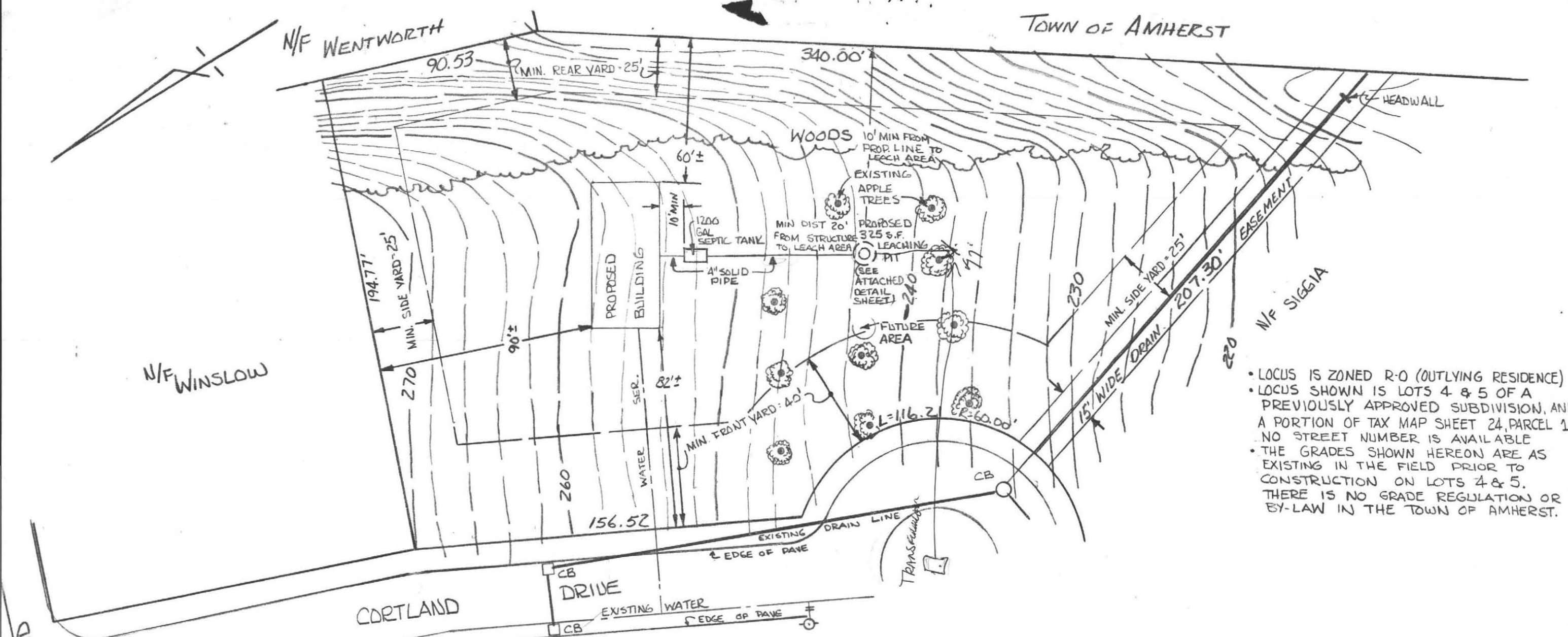
Dear Mr. [Name]:  
Overseas

1962  
New York

*Esso*  
*Fidelity Union*

*[Handwritten Signature]*





- LOCUS IS ZONED R-0 (OUTLYING RESIDENCE)
- LOCUS SHOWN IS LOTS 4 & 5 OF A PREVIOUSLY APPROVED SUBDIVISION, AND A PORTION OF TAX MAP SHEET 24, PARCEL 1. NO STREET NUMBER IS AVAILABLE
- THE GRADES SHOWN HEREON ARE AS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION ON LOTS 4 & 5. THERE IS NO GRADE REGULATION OR BY-LAW IN THE TOWN OF AMHERST.

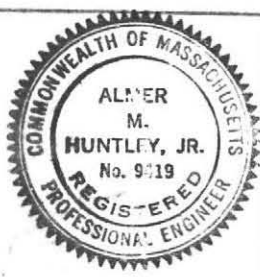
THE LOT SHOWN IS MADE UP OF LOTS 4 & 5 AS SHOWN ON PLAN PREPARED BY THIS OFFICE FOR HOWARD ATKINS DATED JAN 25, 1966. TOTAL LOT AREA IS 64,009

P-296

**PLOT PLAN**  
 PREPARED FOR  
**BIRNEY VAN BENSCHOTEN**  
 AMHERST, MASS.

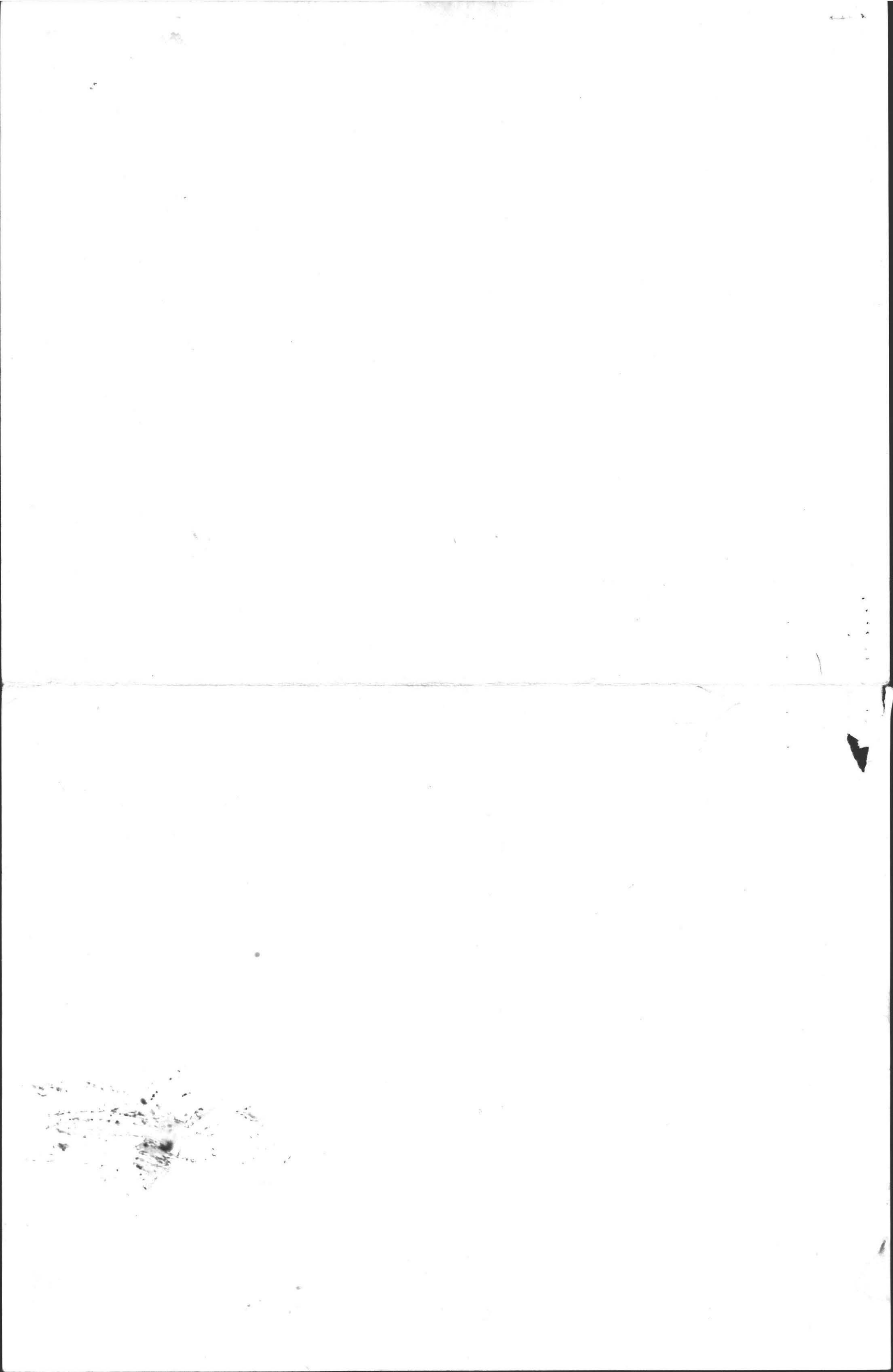
UNDER SECTION 113.6 OF THE MASSACHUSETTS BUILDING CODE, AS AMENDED

COMPUTATIONS:
DESIGN: C.L. LAFLEUR
DRAFTING: C.L. LAFLEUR
CHECKED: R.P. BRAZEAU
APPROVED: A.M. HUNTLEY, JR.
SCALE: 1" = 40'
DATE: JULY 21, 1976



*Almer M. Huntley, Jr.*

ALMER HUNTLEY, JR. & ASSOCIATES, INC.  
 SURVEYORS - ENGINEERS - PLANNERS  
 125 PLEASANT STREET  
 NORTHAMPTON, MASS.



BIRNEY M. VAN BENSCHOTEN  
ATTORNEY AT LAW  
380 MADISON AVENUE  
NEW YORK, N.Y. 10017  
OXFORD 7-2000

NOV 22 1976

12 November 1976

Mr. E. Thomson Hornketh  
P. O. Box 7  
Greenfield, Massachusetts 01301  
U. S. A.

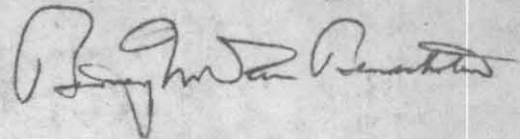
Dear Tom:

With reference to my letters to the Amherst Health Office and the Amherst Building Department, dated 10 November 1976, which I sent to you with my letter of the same date, I find that I mistakenly reversed the numbers of the lots on which we presently plan to place the house and the septic tank. We expect the house will be placed on Lot 5 and the septic tank on Lot 4.

I hope you can secure the appropriate permits by showing the officials this letter.

With warmest regards,

Sincerely,





Cortland Drive



69 Pelham Rd.  
Amherst Mass. 01002  
Apr. 23, 1975

Board of Public Health  
Town Hall  
Amherst Mass. 01002

Dear Sirs:

On April 22, 1975 a percolation test  
was made at Lot #5 Cortland Drive Amherst  
for Mr + Mrs. Eugene Golowich of 2 Duxbury Lane.  
Amherst.

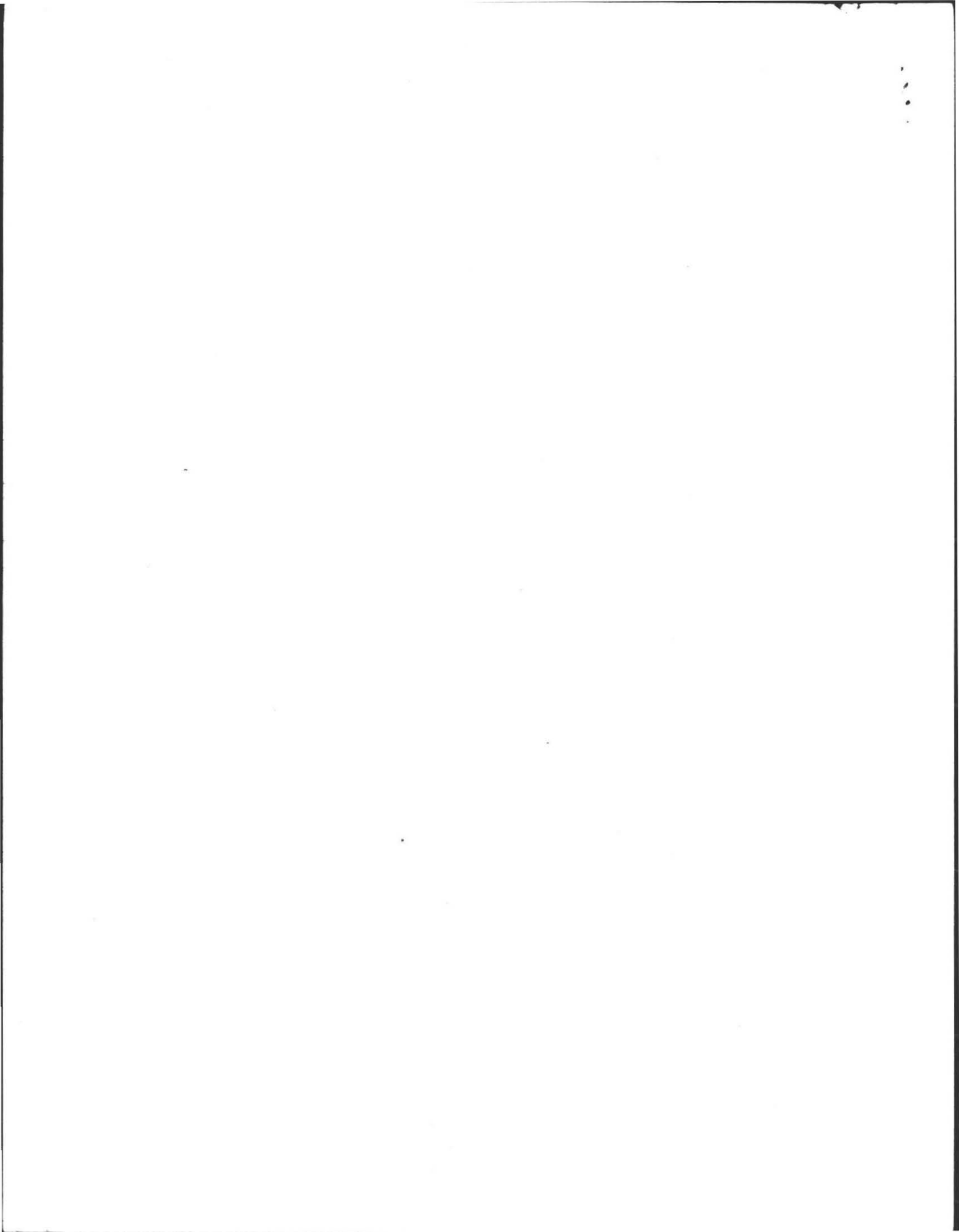
Results:

Percolation - more than 1" in 2 minutes

Soil Description - model enclosed.

Sincerely  
Frederick A. Filios







# PERCOLATION TEST LOCATION

For:

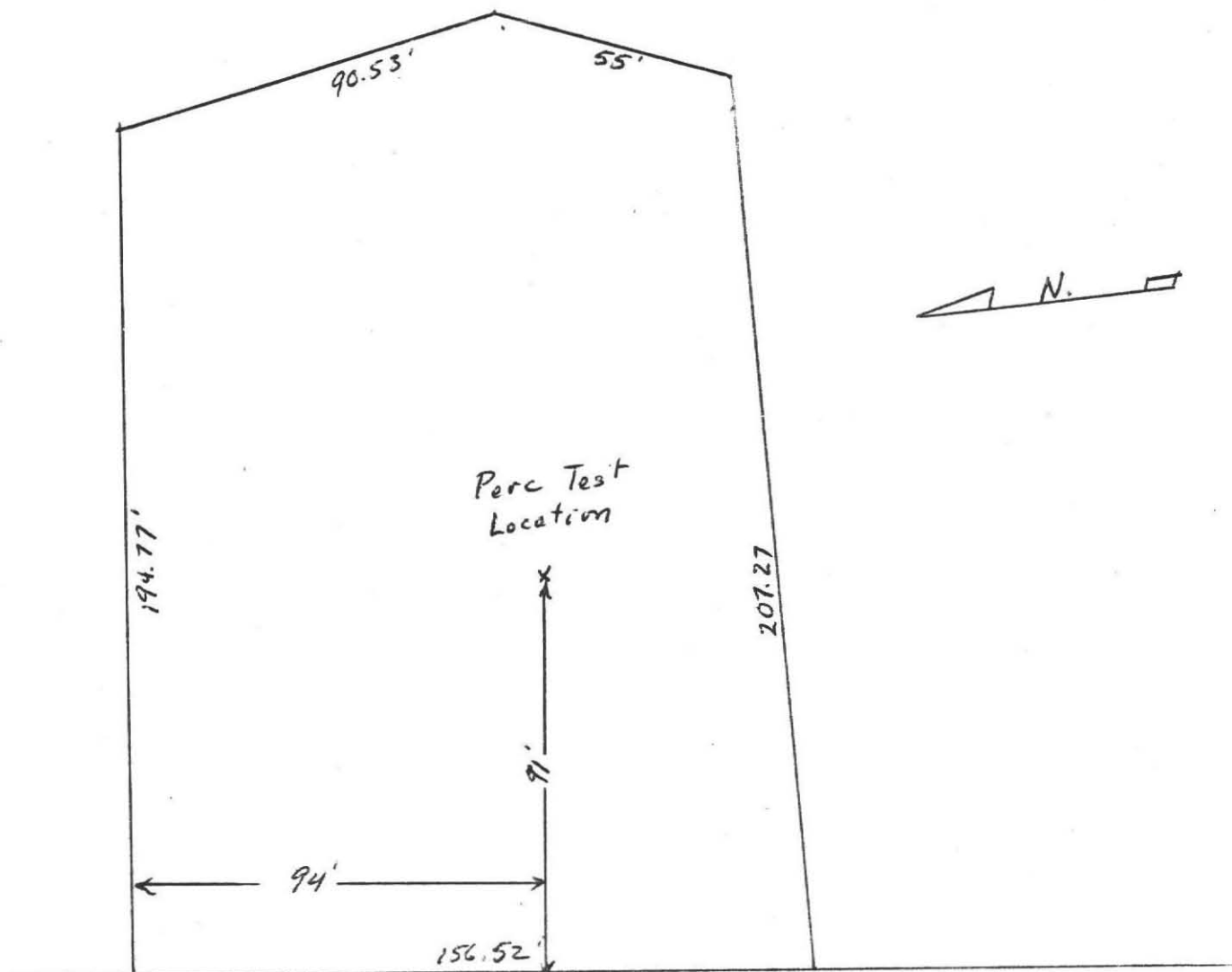
Eugene Golwich  
2 Duxbury Lane  
Amherst Mass

Location at: Cortland Drive  
Amherst Mass

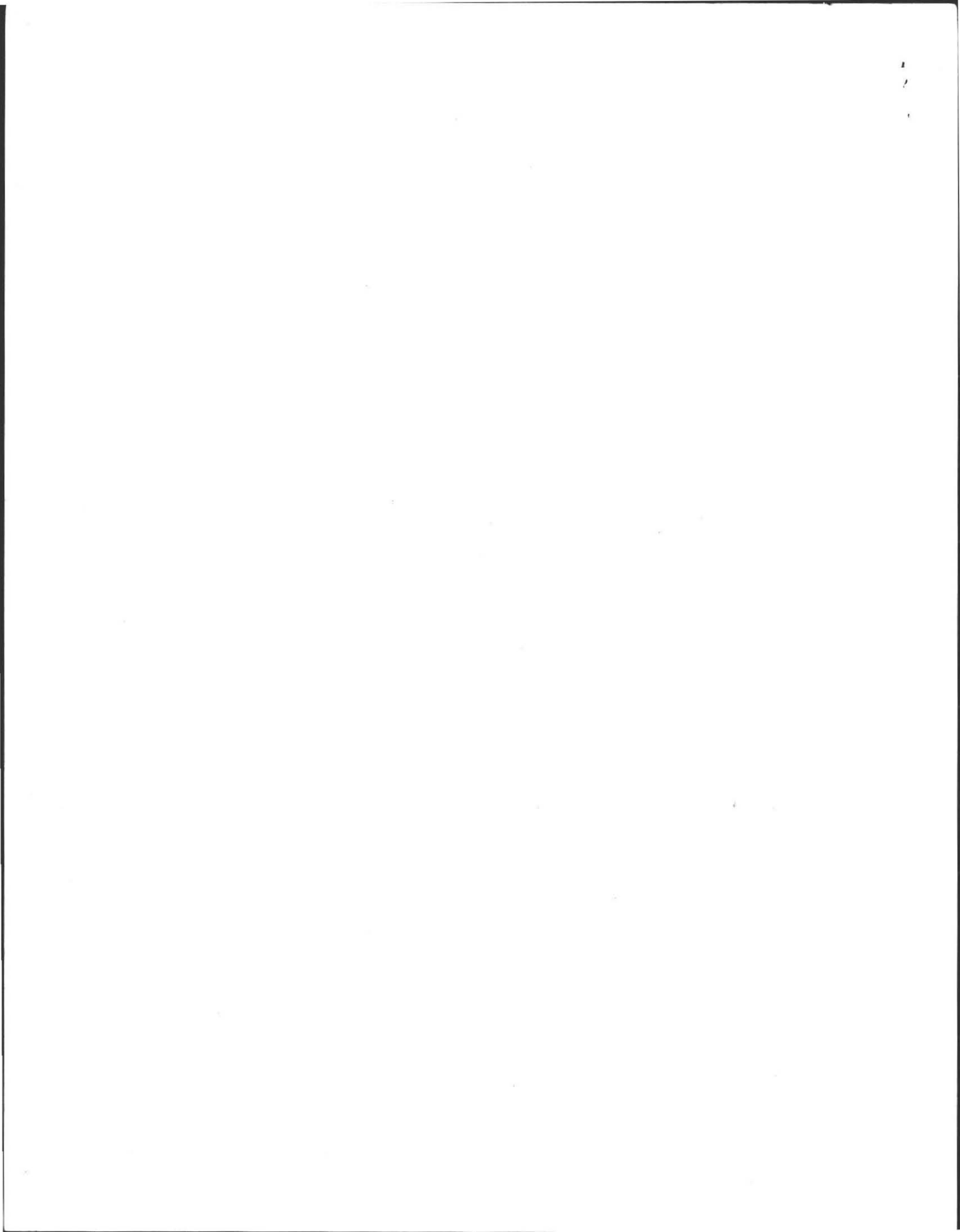
Lot #5

Scale 1" = 40'

By Frederick Filios



CORTLAND DRIVE



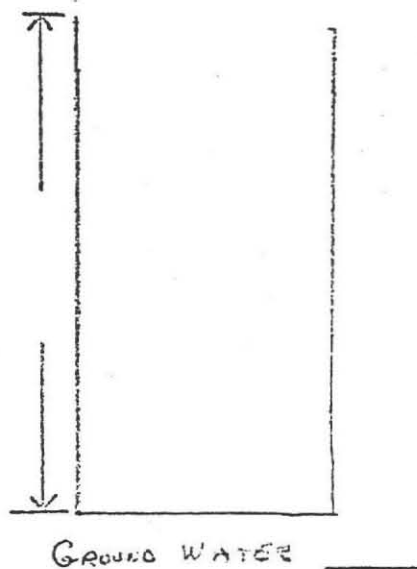
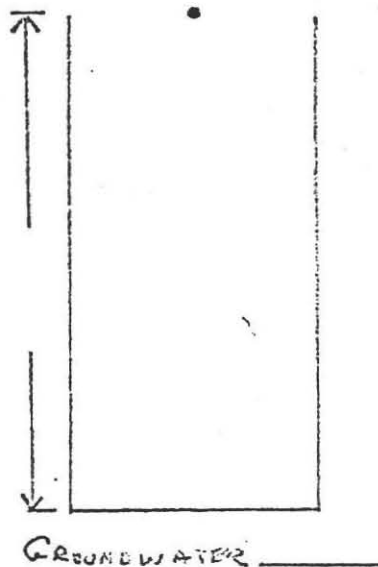
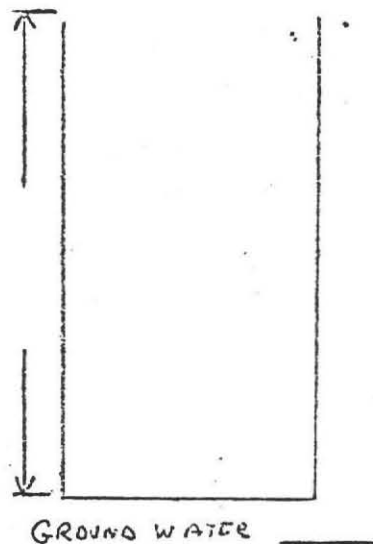
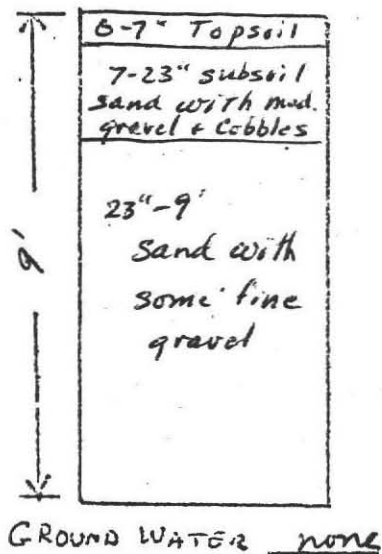
# DEEP SOIL LOGS

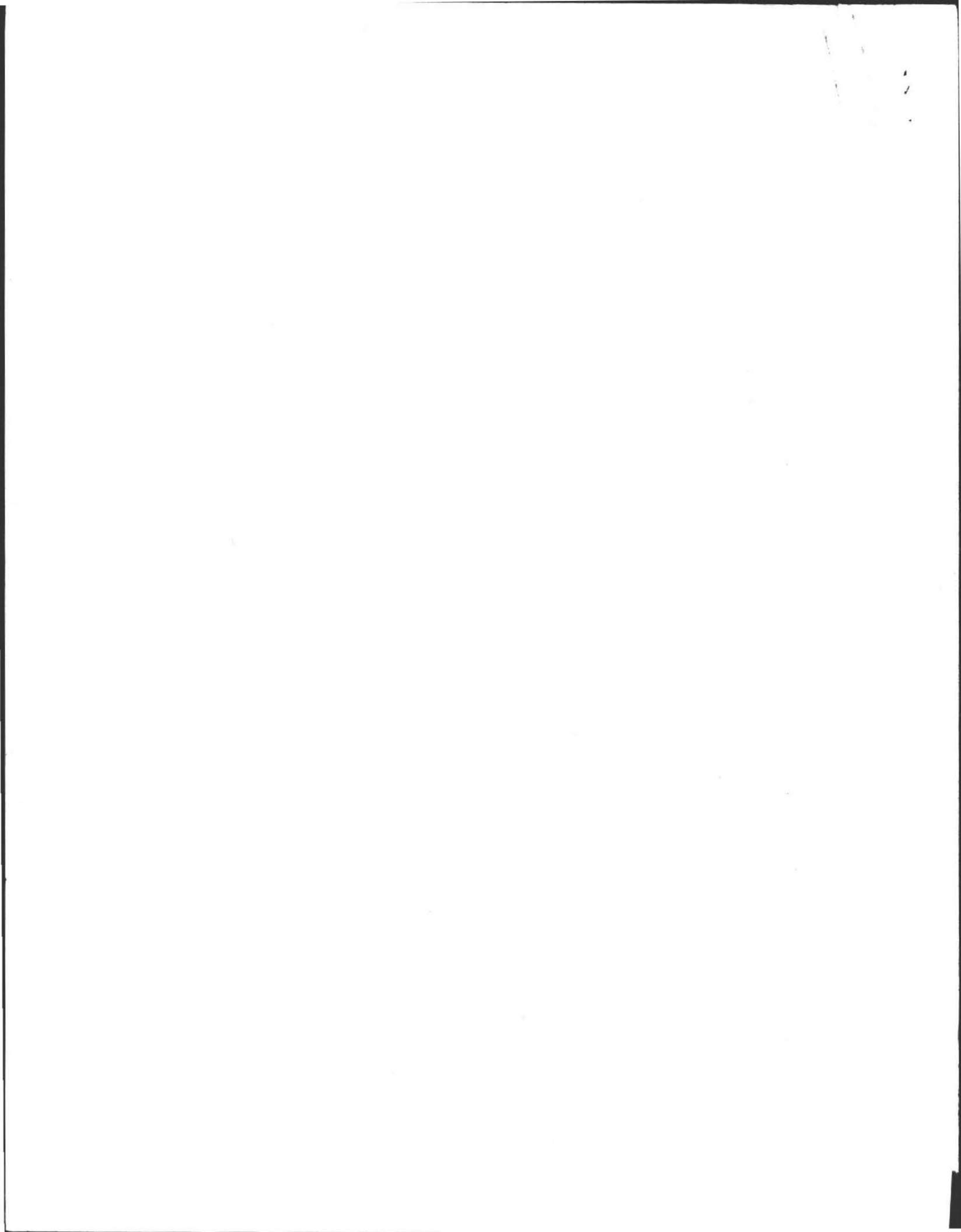
OWNER Mr. Mrs. Eugene Golowich

DATE Apr. 22 1975

LOCATION Cortland Drive Lot #5

OBSERVER Frederick Filios





OBSERVATION PIT

REQUESTED BY: HOWARD ATKINS

DATE: 9/30/73

LOCATION: CORTLAND

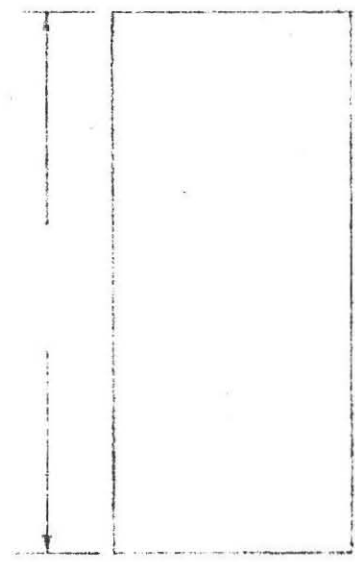
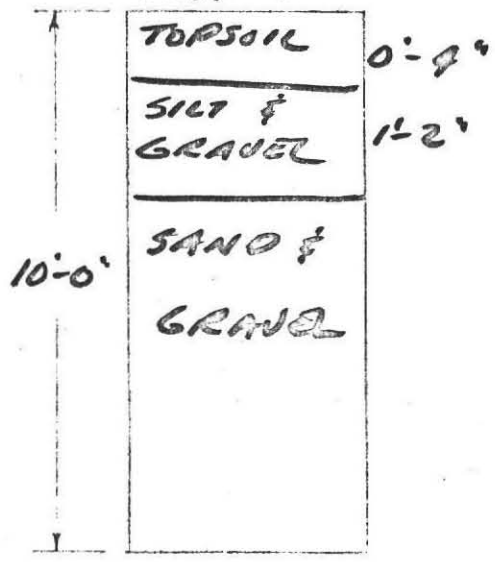
OBSERVER: J. HART

AMHERST, MASS.

MAIL ADDRESS: \_\_\_\_\_

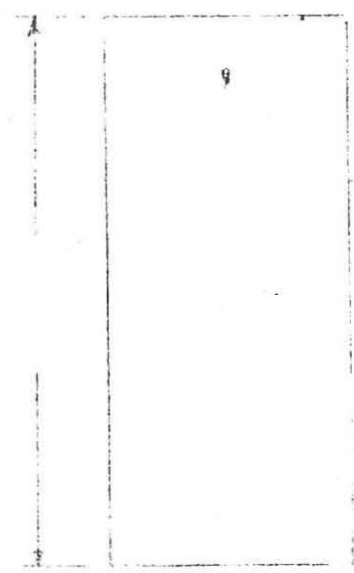
LOT # 2

TEST # 1



GROUND WATER NONE  
PERC. RATE = 1.3 MIN./IN.

GROUND WATER \_\_\_\_\_



GROUND WATER \_\_\_\_\_

GROUND WATER \_\_\_\_\_

ALMER HUNTLEY, JR. & ASSOCIATES, INC.  
 REGISTERED LAND SURVEYORS & CIVIL ENGINEERS  
 238 BRIDGE STREET  
 NORTHAMPTON, MASS.

