



124
88-26
FEE \$90 pd
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 (X) or Repair () an Individual Sewage Disposal System at:

Off Plumtree Road

Donald Maia Location - Address

324 Alpine Drive or Lot No.

L + F CONSTRUCTION

Owner

Address

Installer

Address

Type of Building

Size Lot 1.678 Ac. Sq. feet

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

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

Other fixtures 55

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

Septic Tank - Liquid capacity 1500 gallons Length Width Diameter Depth

Disposal Trench - No. Width Total Length Total leaching area sq. ft.

Seepage Pit No. 2 Diameter Depth below inlet 2'0" Total leaching area capacity=760 GPD

Other Distribution box () Dosing tank ()

Percolation Test Results Performed by A.B. Jr. Huntley, Assoc. Date 12-30-86

Test Pit No. 1 8.0 minutes per inch Depth of Test Pit 11'0" Depth to ground water None

Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil see attached sheet

Nature of Repairs or Alterations - Answer when applicable

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary 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]

7/7/88

Date

Application Approved By

Date

Application Disapproved for the following reasons:

Date

Permit No. 88-26

Issued Date

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

THIS IS TO CERTIFY That the Individual Sewage Disposal System constructed (X) or Repaired () by L + F CONSTRUCTION

at OFF PLUMTREE ROAD Installer

has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. 88-26 dated 7/13/89

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

DATE 7/13/89

Inspector [Signature]

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

No. 88-26 TOWN OF Amherst

FEE \$90.00 pd

Disposal Works Construction Permit

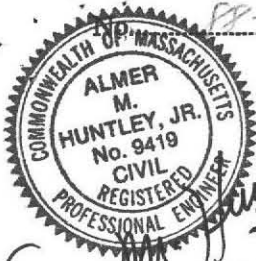
Permission is hereby granted to Construct (X) or Repair () an Individual Sewage Disposal System at No. Donald Maia off Plumtree Road

as shown on the application for Disposal Works Construction Permit No. 88-26 Dated for Amherst Health Dept. : Dennis C. Priskei

DATE July 12, 1989

Board of Health





FEE \$90.00 pd

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 (x) or Repair () an Individual Sewage Disposal System at:

Off Plumtree Road

Donald Maia

Location - Address

324 Alpine Drive

or Lot No.

Owner

Address

Installer

Address

Type of Building

Size Lot 1.678 Ac. Sq. feet

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

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

Other fixtures

Design Flow 55 gallons per person per day. Total daily flow 330 gallons.

Septic Tank - Liquid capacity 1500 gallons Length Width Diameter Depth

Disposal Trench - No. Width Total Length Total leaching area sq. ft.

Seepage Pit No. 2 Diameter Depth below inlet 2'0" Total leaching area sq. ft.

Other Distribution box () Dosing tank () capacity 760 GPD

Percolation Test Results Performed by A.R. Jr. Huntley, Assoc. Date 12-30-86

Test Pit No. 1 8.0 minutes per inch Depth of Test Pit 11'0" Depth to ground water None

Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil see attached sheet

Nature of Repairs or Alterations - Answer when applicable

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary 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]

Date 7/7/88

Application Approved By

Date

Application Disapproved for the following reasons:

Date

Date

Permit No. 88-216

Issued

Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

OF

Certificate of Compliance

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

Installer

at

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

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

DATE

Inspector

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

No. 88-216

Town OF Amherst

FEE

\$90.00 pd

Disposal Works Construction Permit

Permission is hereby granted to Construct (x) or Repair () an Individual Sewage Disposal System at No. Donald Maia off Plumtree Road

Street

as shown on the application for Disposal Works Construction Permit No. 88-216 Dated

for Amherst Health Dept. [Signature]

Board of Health

DATE July 12, 1988

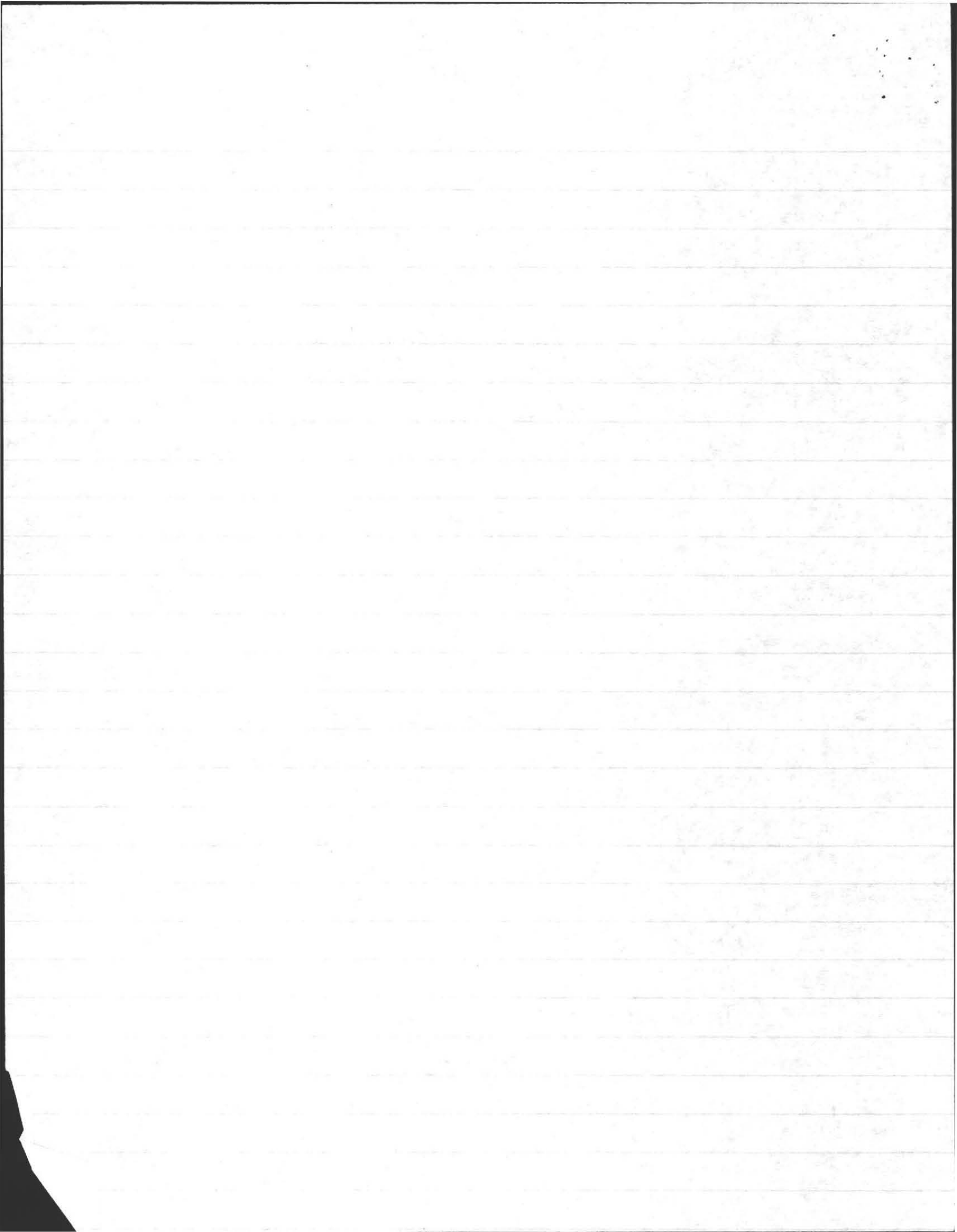
CHECK OR FILL IN WHERE APPLICABLE



Don Maia

Plumtrees Road

9/2/88 On site visit with Don Maia. House site has been excavated and will now have been installed.
Proposed changes to the original approved plan:



Prepared For: DONALD MAIA

Location: PLUM TREES ROAD

Number of Bedrooms: 3 Garbage Disposal: —

LEACH AREA DESIGN

3 Bedrooms x 2 persons/bedroom = 6 persons

6 Persons x 55 gallons of wastewater/person/day = 330 total gallons of wastewater/day.

Percolation Rate: 8 min/inch

Gallon of wastewater/square feet of leach area for a Percolation Rate of:

$$\begin{aligned} \underline{8} \text{ min/inch} &= \underline{1.25} \text{ Gal/SF Sidewall Area} \\ &= \underline{0.63} \text{ Gal/SF Bottom Area} \end{aligned}$$

- * If a leach bed is to be installed, no sidewall is allowed.
- * If percolation rate exceeds 20 min/inch, no bottom area is allowed.

- SEPTIC TANK -

* WITHOUT GARBAGE DISPOSAL:

330 Gallons of wastewater/day x 150% = 495 REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: 1500 Septic Tank

- * In no case will the septic tank be less than 1,000 gallons (effective liquid capacity).

** WITH GARBAGE DISPOSAL:

_____ Gallons of wastewater/day x 200% = _____ REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: _____ Septic Tank

- ** In no case will the septic tank be less than 1,500 gallons (effective liquid capacity)

12

LEACHING PIT DESIGN

Precast Pit Used: 10 ' Long x 5 ' Wide x 2 ' Effective Depth
Using 4 ' of stone all around and 1 ' of stone under pit.

SIDEWALL AREA:

18 ' Long x 3 ' Effective Depth x 2 Sides = 108 SF

13 ' Wide x 3 ' Effective Depth x 2 Sides = 78 SF

Total of 186 SF (Sidewall Area) x 1.25 Gal/SF = 232 Gal/Pit (Sidewall)

BOTTOM AREA:

18 ' Long x 13 ' Wide = 234 SF

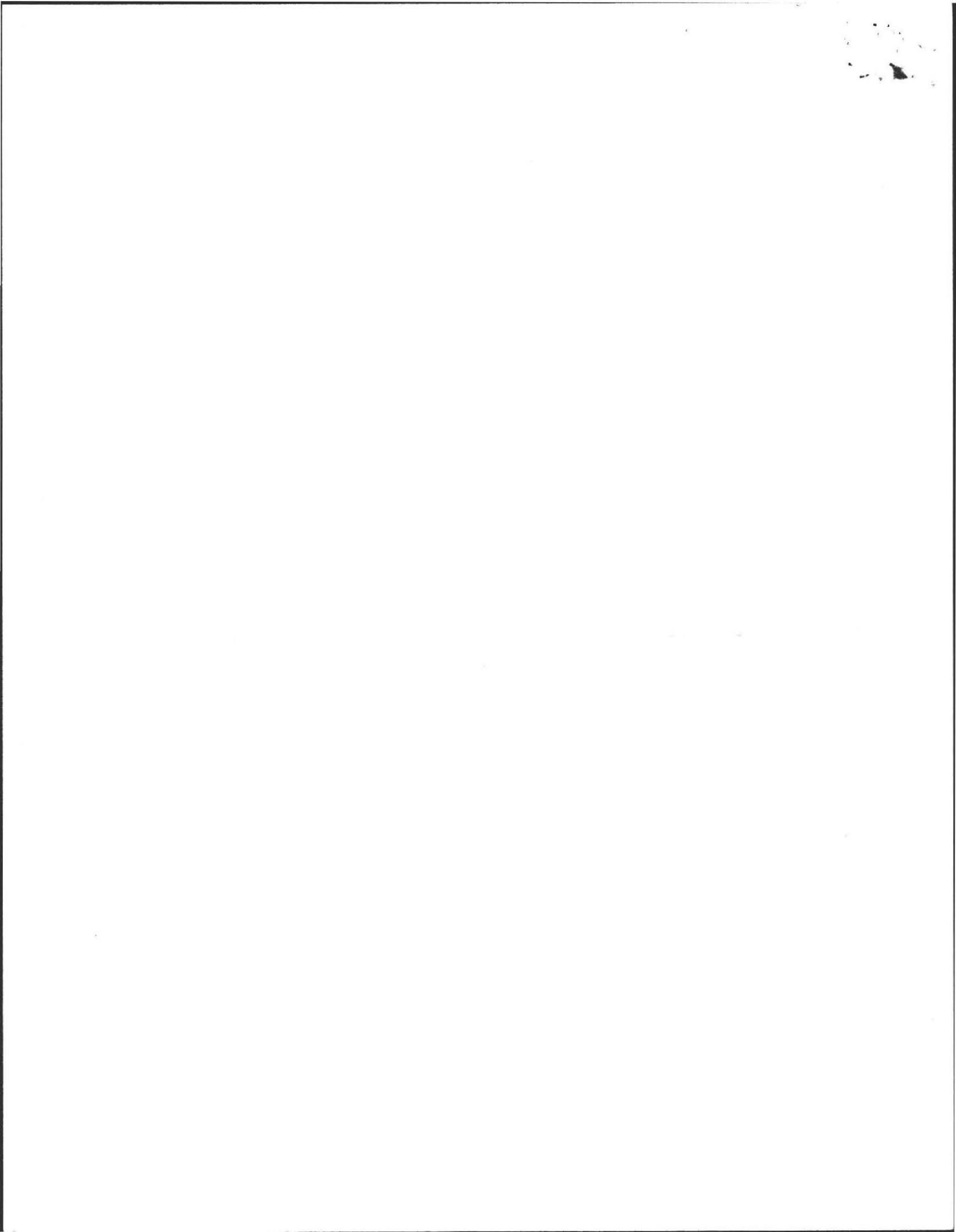
234 SF (Bottom Area) x 0.63 Gal/SF = 147 Gal/Pit (Bottom)

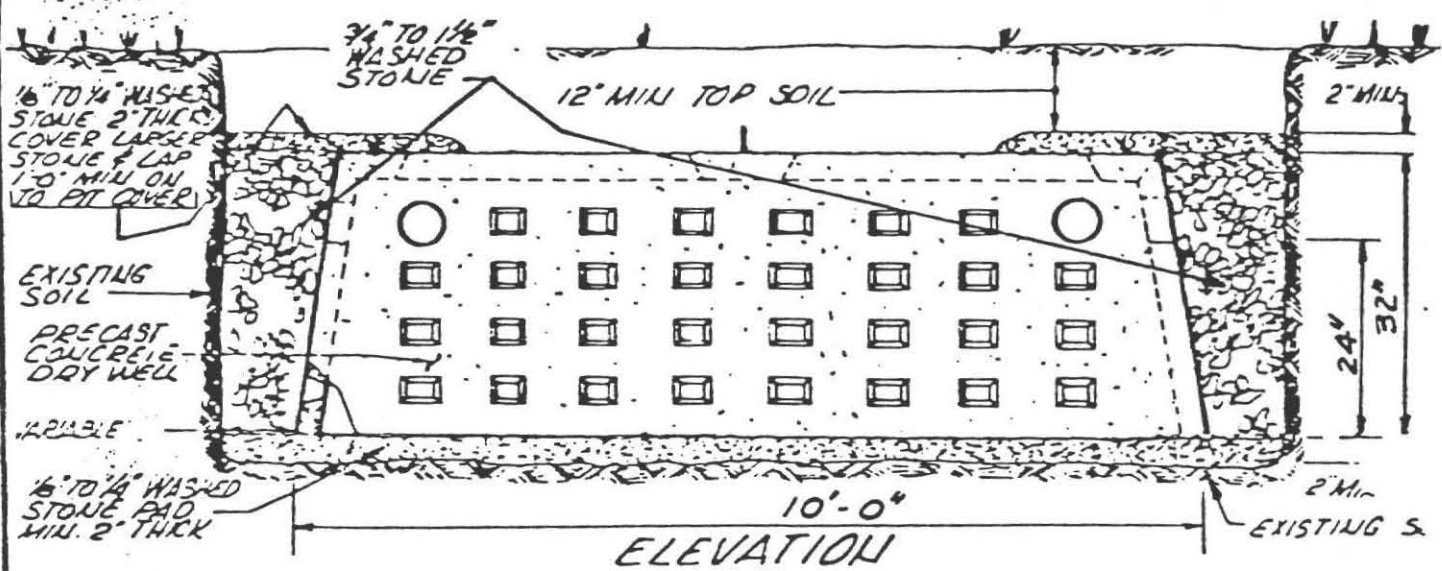
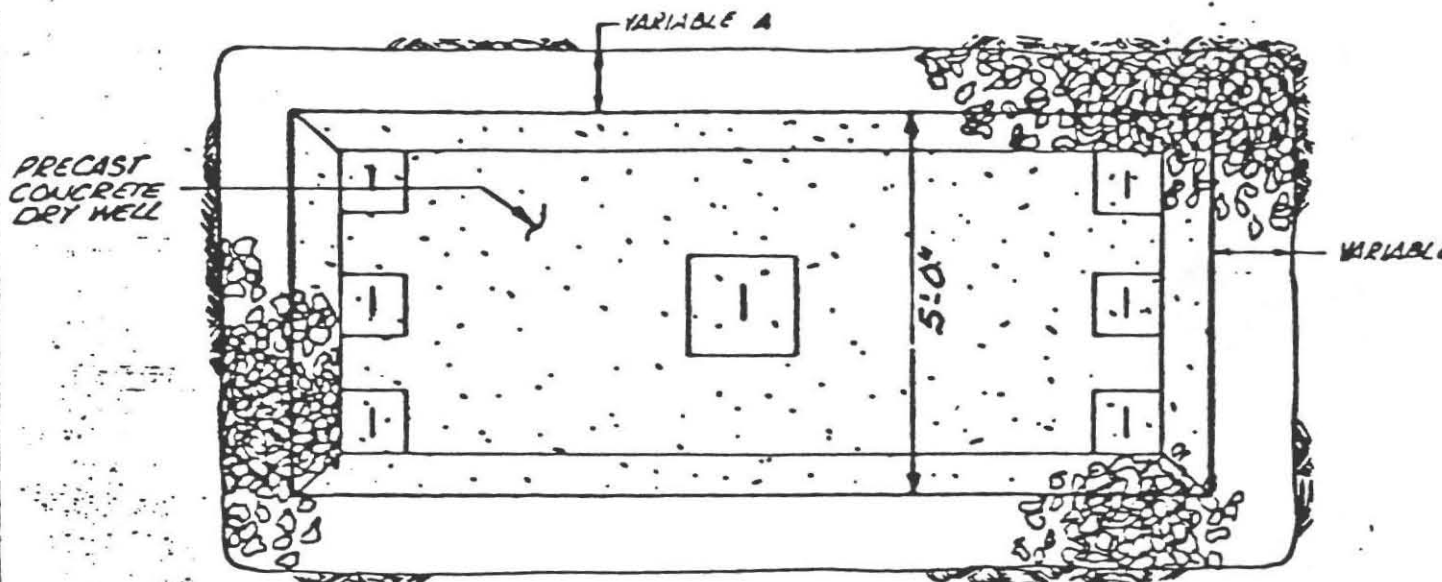
232 Gal/Pit (Sidewall)
+ 147 Gal/Pit (Bottom)
= 380 TOTAL Gal/Pit (Designed)

* Without Garbage Disposal: 330 Total Gal/Day (REQUIRED)

* With Garbage Disposal: 1.5 x _____ Gal/Day (Daily Flow) = _____ Gal/Pit (REQUIRED)

Using 330 Gal/Day (Daily Flow) ÷ 380 Gal/Pit = 2 Pit(s)





NOTE: • ALL WORK WILL BE DONE IN ACCORDANCE WITH THE STATE ENVIRONMENTAL CODE - TITLE 5.
 • SPACING WHEN MORE THAN ONE SEEPAGE PIT OR DRY WELL ARE BEING USED IS TO BE TWICE THE GREATEST EFFECTIVE WIDTH OR DEPTH OF THE PIT, WHICHEVER IS GREATER.

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



JUN 7 1989

PROPOSED DOMESTIC SUBSURFACE DISPOSAL SYSTEM DESIGN

Prepared For: DONALD MAIA

Location: PLUM TREES ROAD

Number of Bedrooms: 3 Garbage Disposal: —

LEACH AREA DESIGN

3 Bedrooms x 2 persons/bedroom = 6 persons

6 Persons x 55 gallons of wastewater/person/day = 330 total gallons of wastewater/day.

Percolation Rate: 8 min/inch

Gallon of wastewater/square feet of leach area for a Percolation Rate of:

8 min/inch = 1.25 Gal/SF Sidewall Area

= 0.63 Gal/SF Bottom Area

- * If a leach bed is to be installed, no sidewall is allowed.
- * If percolation rate exceeds 20 min/inch, no bottom area is allowed.

- SEPTIC TANK -

* WITHOUT GARBAGE DISPOSAL:

330 Gallons of wastewater/day x 150% = 495 REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: 1500 Septic Tank

* In no case will the septic tank be less than 1,000 gallons (effective liquid capacity).

** WITH GARBAGE DISPOSAL:

_____ Gallons of wastewater/day x 200% = _____ REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: _____ Septic Tank

** In no case will the septic tank be less than 1,500 gallons (effective liquid capacity)

4

LEACHING PIT DESIGN

Precast Pit Used: 10 ' Long x 5 ' Wide x 2 ' Effective Depth
Using 4 ' of stone all around and 1 ' of stone under pit.

SIDEWALL AREA:

18 ' Long x 3 ' Effective Depth x 2 Sides = 108 SF

13 ' Wide x 3 ' Effective Depth x 2 Sides = 78 SF

Total of 186 SF (Sidewall Area) x 1.25 Gal/SF = 232 Gal/Pit (Sidewall)

BOTTOM AREA:

18 ' Long x 13 ' Wide = 234 SF

234 SF (Bottom Area) x 0.63 Gal/SF = 147 Gal/Pit (Bottom)

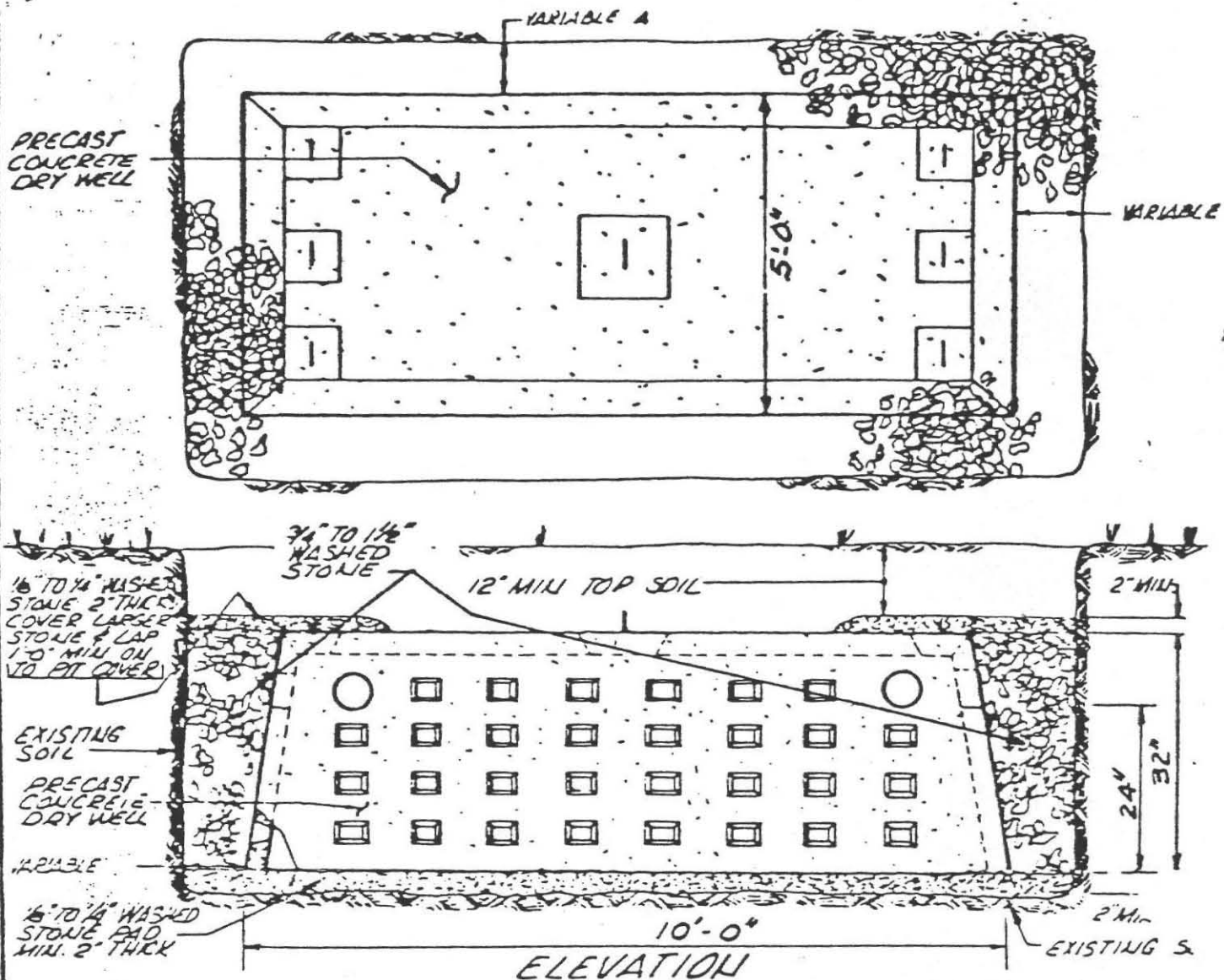
$$\begin{aligned} & \underline{232} \text{ Gal/Pit (Sidewall)} \\ + & \underline{147} \text{ Gal/Pit (Bottom)} \\ = & \underline{380} \text{ TOTAL Gal/Pit (Designed)} \end{aligned}$$

* Without Garbage Disposal: 330 Total Gal/Day (REQUIRED)

* With Garbage Disposal: 1.5 x _____ Gal/Day (Daily Flow) = _____ Gal/Pit (REQUIRED)

Using 330 Gal/Day (Daily Flow) ÷ 380 Gal/Pit = 2 Pit(s)

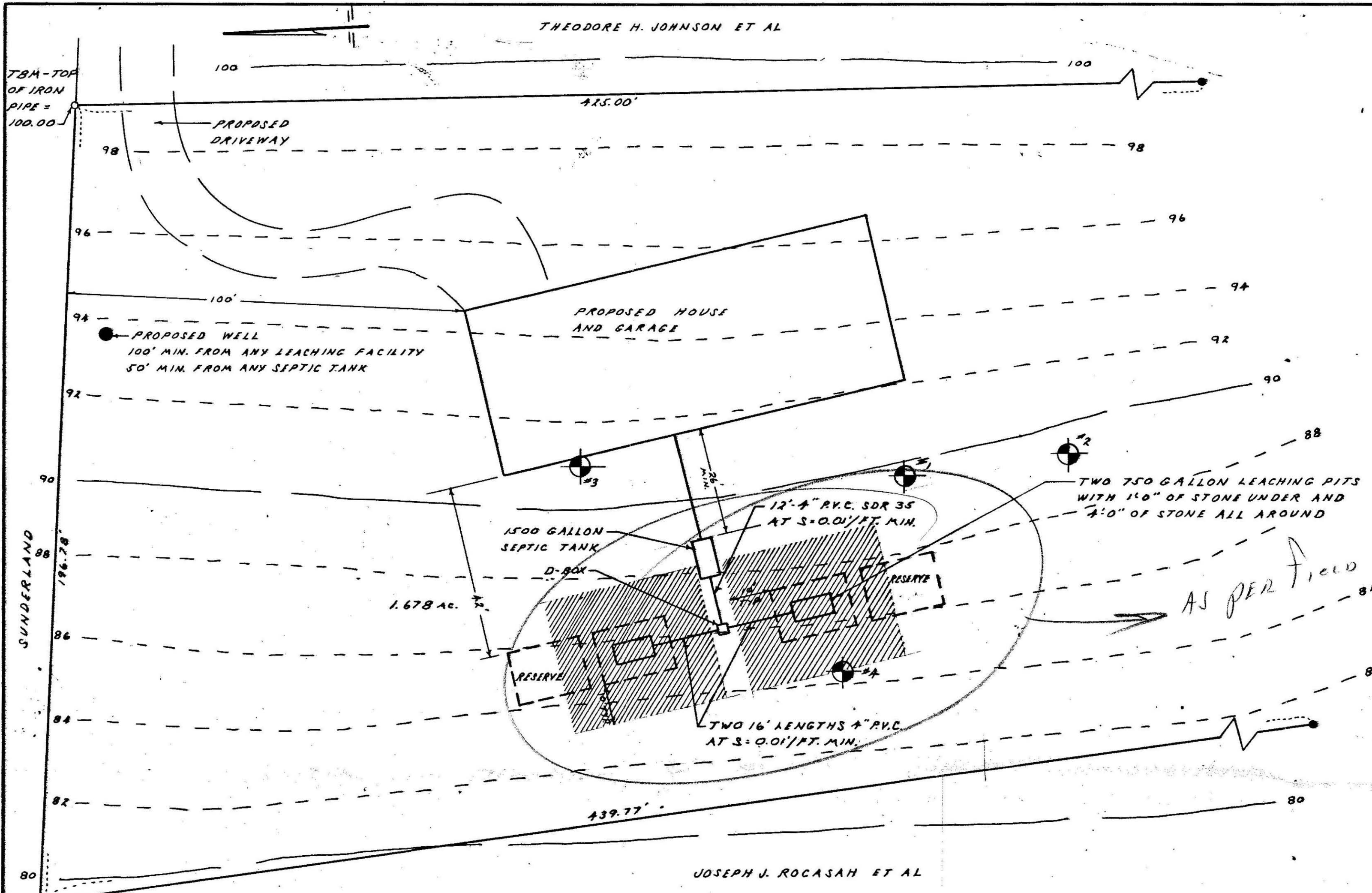
100



- NOTE: • ALL WORK WILL BE DONE IN ACCORDANCE WITH THE STATE ENVIRONMENTAL CODE - TITLE 5.
- SPACING WHEN MORE THAN ONE SEEPAGE PIT OR DRY WELL ARE BEING USED IS TO BE TWICE THE GREATEST EFFECTIVE WIDTH OR DEPTH OF THE PIT, WHICHEVER IS GREATER.

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

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100



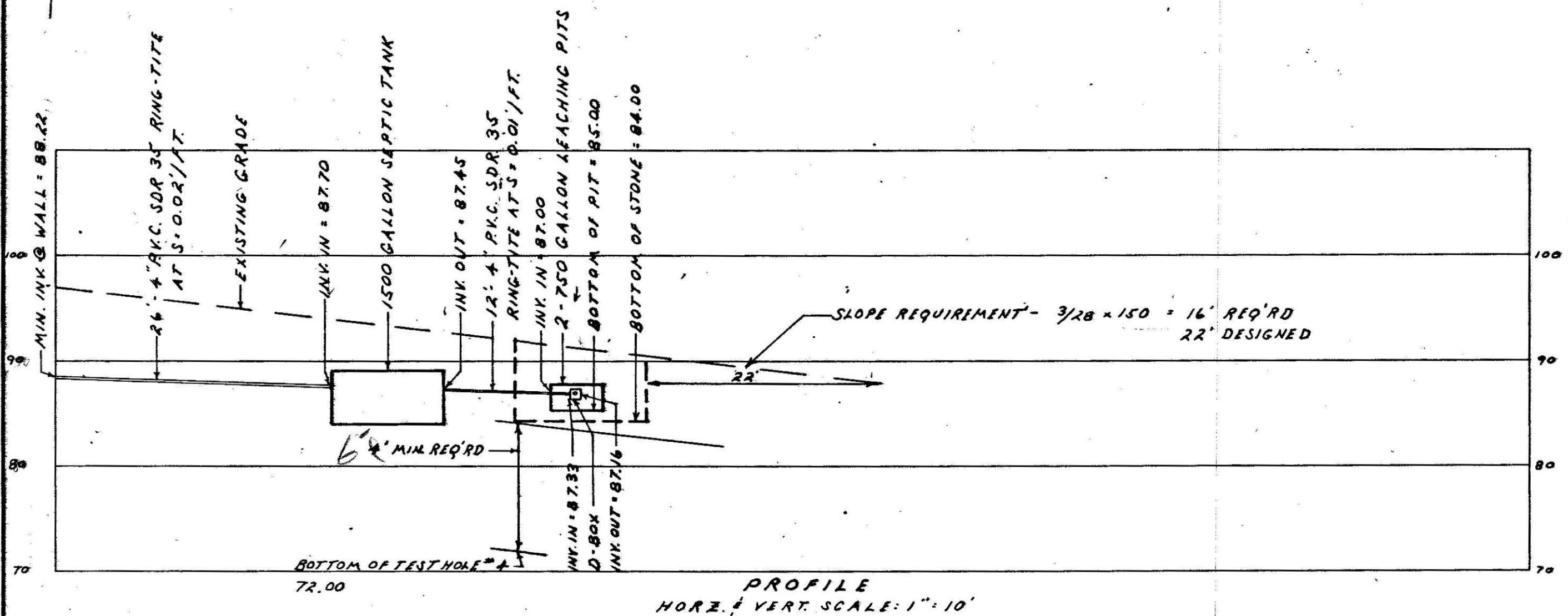
OBSERVATION PIT: #1		OBSERVATION PIT: #2	
DATE: 5-15-89		DATE: 12-30-86	
FILL	5'-0"	OTS	15"
F-C SAND AND GRAVEL	13'-0"	SILT	18"
		F-C SAND & GRAVEL	3'-0"
		M-C SAND	5'-9"
GROUNDWATER = NONE		GROUNDWATER = NONE	
OXIDE: = NONE		OXIDE: = NONE	
PERC. RATE = N.A.		PERC. RATE = 8 min/in @ 4'-6"	

NOTES:
ALL WORK TO BE DONE IN ACCORDANCE WITH TITLE 5, STATE ENVIRONMENTAL CODE.
SEPTIC TANK SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY PER TITLE 5, SEC. 6.16

AS PER FIELD DISCUSSION

TOPOGRAPHY SHOWN IS EXISTING PRIOR TO ADDITION OF FIVE (5') FEET OF FILL.
SHADED AREA REPRESENTS AREA OF TOPSOIL AND FILL TO BE REMOVED AND REPLACED WITH CLEAN FILL AS PER TITLE 5 SECTION 15.02(17). ATTACHED

PLAN
SCALE: 1" = 20'



98 ——— PROPOSED CONTOUR
98 - - - EXISTING CONTOUR

<p>PLAN OF PROPOSED SEWAGE DISPOSAL SYSTEM FOR A LOT OFF PLUM TREES ROAD, AMHERST PREPARED FOR DONALD MAIA</p>	FIELD WORK: AB JR.
	COMPUTATIONS: AB JR.
	DRAFTING: AB JR.
	CHECKED: AMH JR.
	SCALE: AS NOTED
	DATE: 1-16-87
	REV: 6-3-89
	<p>ALMER HUNTLEY, & ASSOCIATES, INC. LAND SURVEYORS—PROFESSIONAL ENGINEERS—LANDSCAPE ARCHITECTS 125 PLEASANT STREET NORTHAMPTON, MA.</p>
P-1612	SHEET: 1 OF 1

TOWN OF Amherst

PERC TEST DATA SHEET

DATE May 15 89 LOCATION Plumtree Road LOT SIZE _____

OWNER Don Maria ADDRESS Plumtree Rd TELE # _____

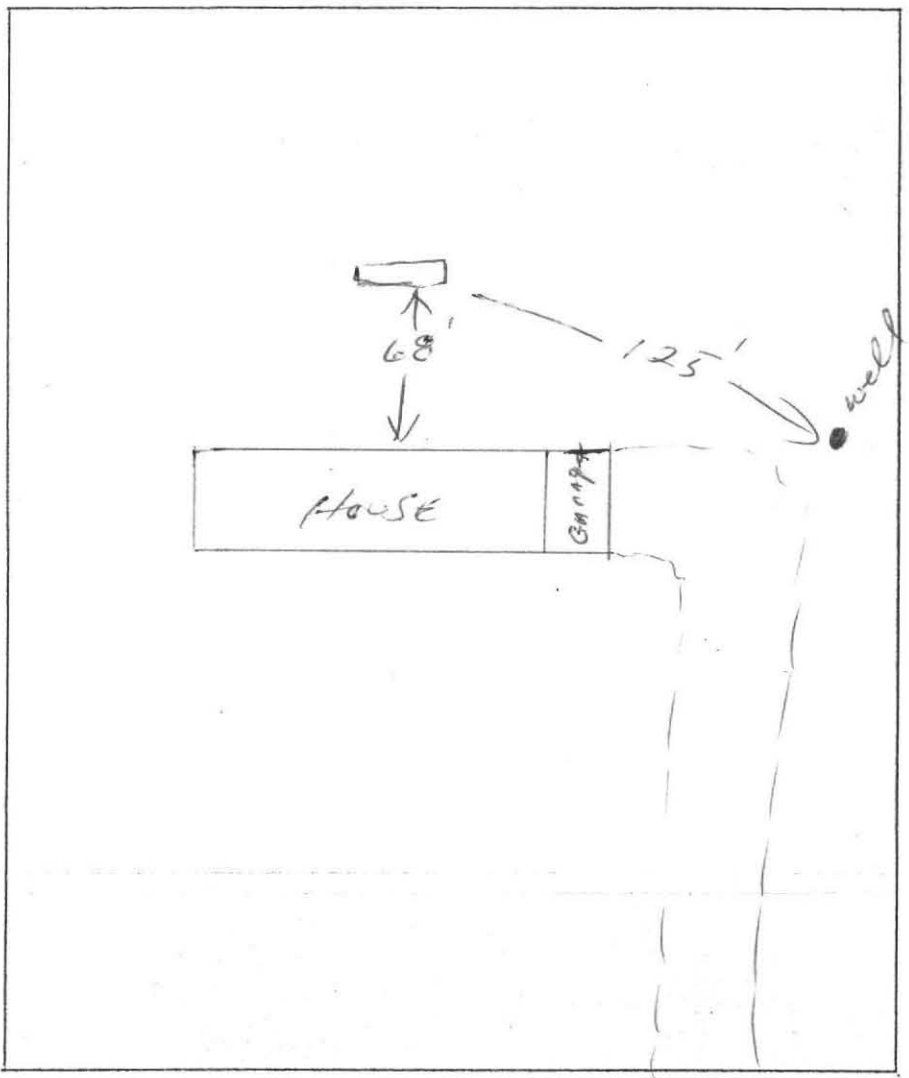
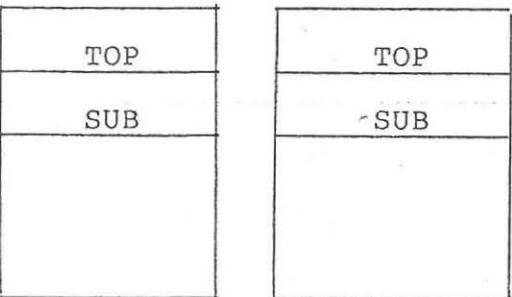
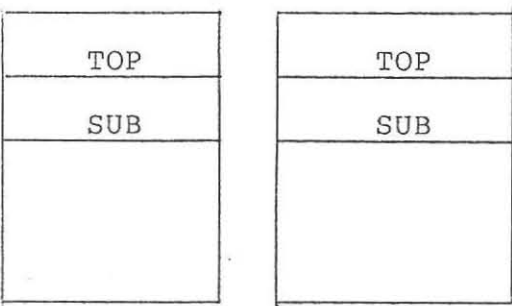
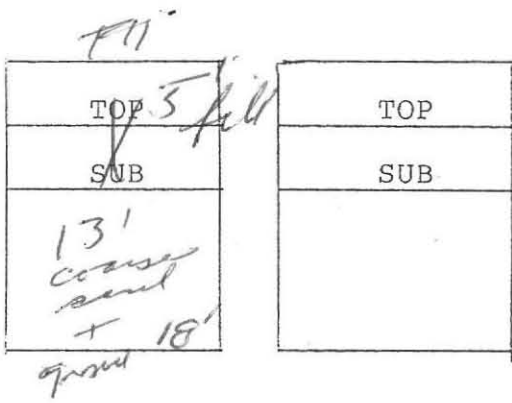
P.E./RS Rich Brazee FIRM Huntley OBSERVED BY David Zambelli

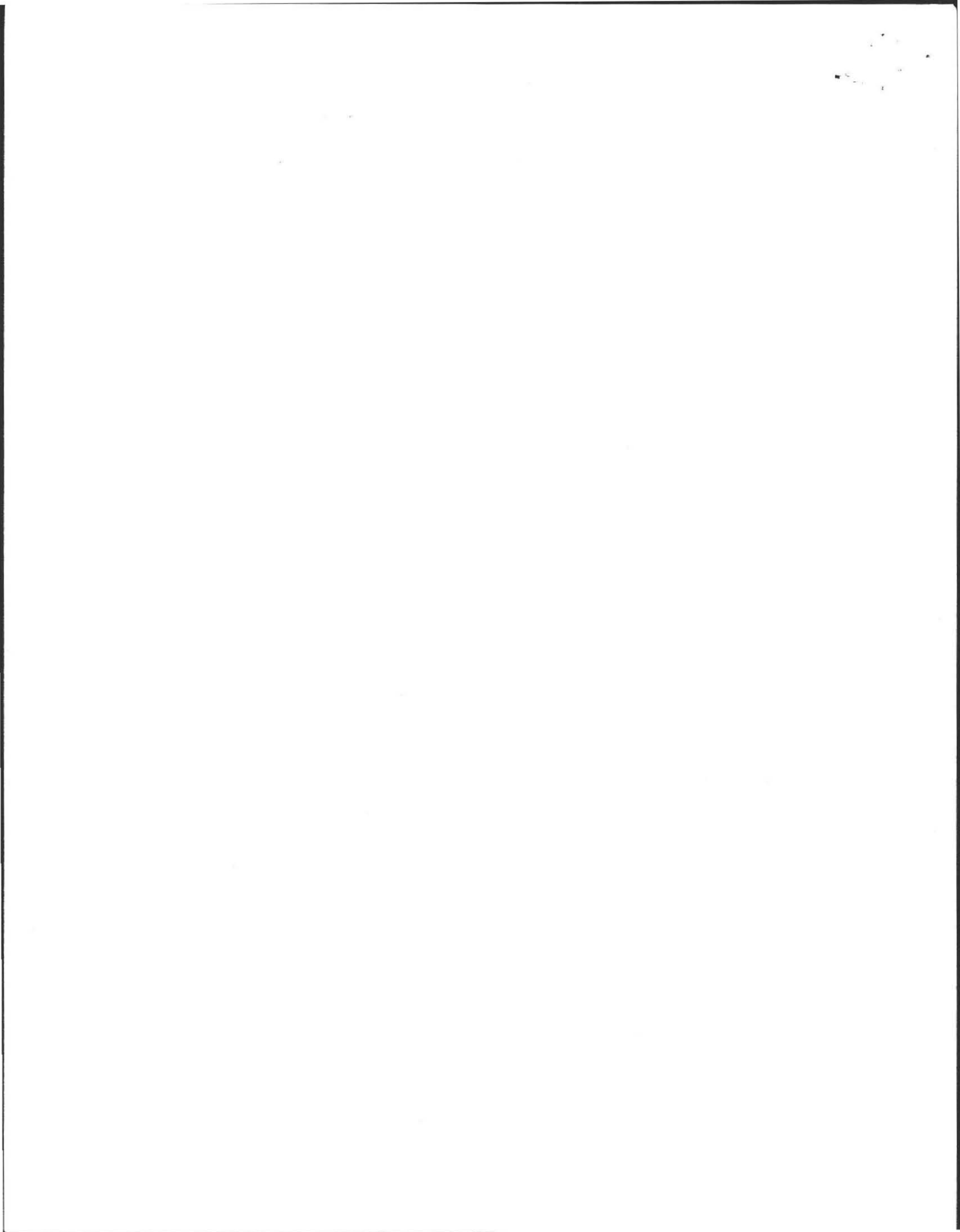
BACK HOE OPERATOR _____ BENCH MARK _____

PERC DEPTH _____ PRE SOAK TIME _____ PERC DEPTH _____ PRE SOAK TIME _____

TEST _____

RATE _____ RATE _____





TOWN OF AMHERST

PERC TEST DATA SHEET

DATE May 5, 89 LOCATION Plantree Road LOT SIZE _____

OWNER De... .. ADDRESS Plantree Rd TELE # _____

P.E./RS _____ FIRM _____ OBSERVED BY _____

BACK HOE OPERATOR _____ BENCH MARK _____

PERC DEPTH _____ PRE SOAK TIME _____ PERC DEPTH _____ PRE SOAK TIME _____

TEST _____

RATE _____ RATE _____

<i>Fill</i>	
TOP 5'	TOP
SUB	SUB
<i>Sand</i>	

TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB

Log Deep Hole only

