

87-6
160 SI'AYS STREET (Pending)



OCT 14 1987

No. 87-6 Revision 1
Amendments 19 1987

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:

Location - Address: 160 Shays Street or Lot No. 160
Owner: George & Ruth Wade Address: 156 Alpine Dr., Amherst
Installer: L & P Construction Address: Levesett

Type of Building: Dwelling — No. of Bedrooms: 4 Expansion Attic () Garbage Grinder (no)
Other — Type of Building: No. of persons: Showers () — Cafeteria ()
Other fixtures:

Design Flow: 55 gallons per person per day. Total daily flow: 440 gallons.
Septic Tank ✓ Liquid capacity: 1500 gallons Length: 10.5' Width: 5' Diameter: Depth: 5'4"
Disposal Trench ✓ No. 2 Width: 2' Total Length: 16.4' Total leaching area: 124 sq. ft. Sides
Seepage Pit No. Diameter: Depth below inlet: 5' Total leaching area: 248 sq. ft. Bottom
Other Distribution box (✓) Dosing tank ()
Percolation Test Results Performed by: John A. Brickett Date: Jan. 15, 1987
Test Pit No. 1: 4' minutes per inch Depth of Test Pit: 8' Depth to ground water: None
Test Pit No. 2: minutes per inch Depth of Test Pit: 8' Depth to ground water: None

Description of Soil: Attached

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.

Application Approved By: Peter Solidy, R.S. Acting Agent Date: 10/14/87
subject to attached
comments

Application Disapproved for the following reasons:

Permit No. 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 (✓) or Repaired () by

at: 160 Shays Street 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. 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

Town OF Amherst

No. FEE

Disposal Works Construction Permit

Permission is hereby granted George & Ruth Wade
to Construct (✓) or Repair () an Individual Sewage Disposal System
at No. 160 Shays St. Street

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

DATE Board of Health

CHECK OR FILL IN WHERE APPLICABLE

Revised 11

George & Barbara

Attachment

107 2nd Street

107 2nd Street

19 Summer St.
Greenfield, Mass.

January 20, 1986

Mr. Howard Kobin
51 Long Plain Road
Leverett, Mass.

Re: Shays St., Amherst, Mass. 01002

Dear Mr. Kobin:

This will certify that on January 15, 1986 I conducted deep soil observation and percolation tests on a parcel of land located on the north side of Shays St., Amherst, Mass.

Charles Drake, R.S. was present as an observer for the Town of Amherst.

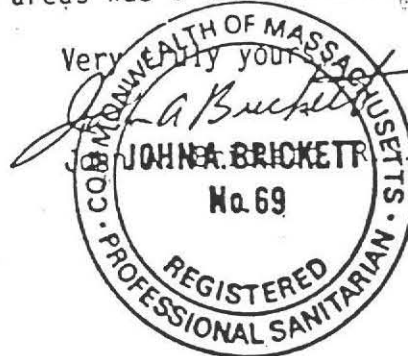
Copies of soil logs are enclosed.

Test Pits #1 and #2 were located 400' north of Shays St. and 250' east of the west property line.

Test Pits #3 and #4 were located 450' north of Shays St. and 300' east of the west property line.

The percolation rate for both areas was 3 mins./inch.

Very truly yours,



JAB/s

Inspection 112087

between 3-4

notified Mr. Wade 111987

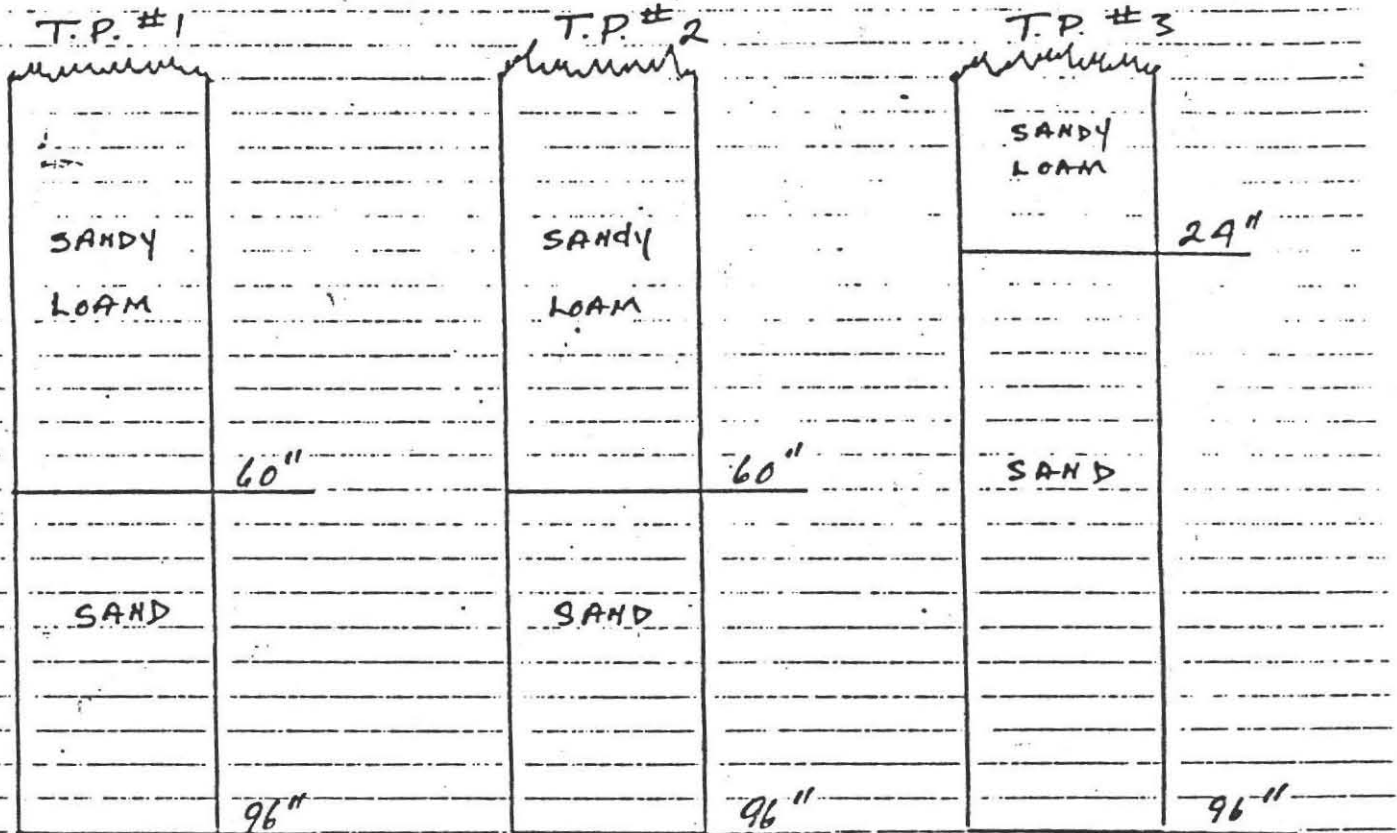
OBSERVATION PITS

TESTED By: HOWARD KOBIN - 51 LONG PLAIN Rd LEVERETT, MA.

LOCATION: NORTH SIDE SHAYS ST, AMHERST, MA.

DATE: 1/15/86

OBSERVER: C. BRAKE, R.S.

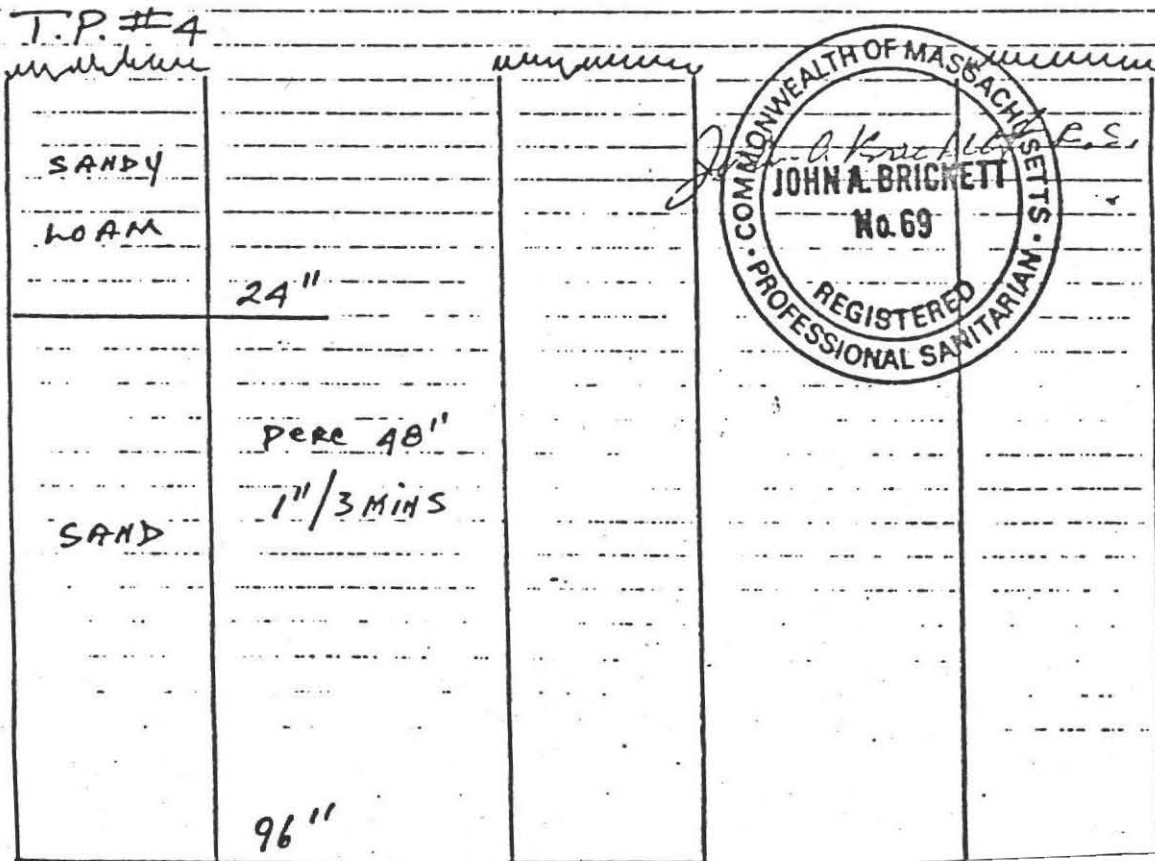


NO WATER

NO WATER

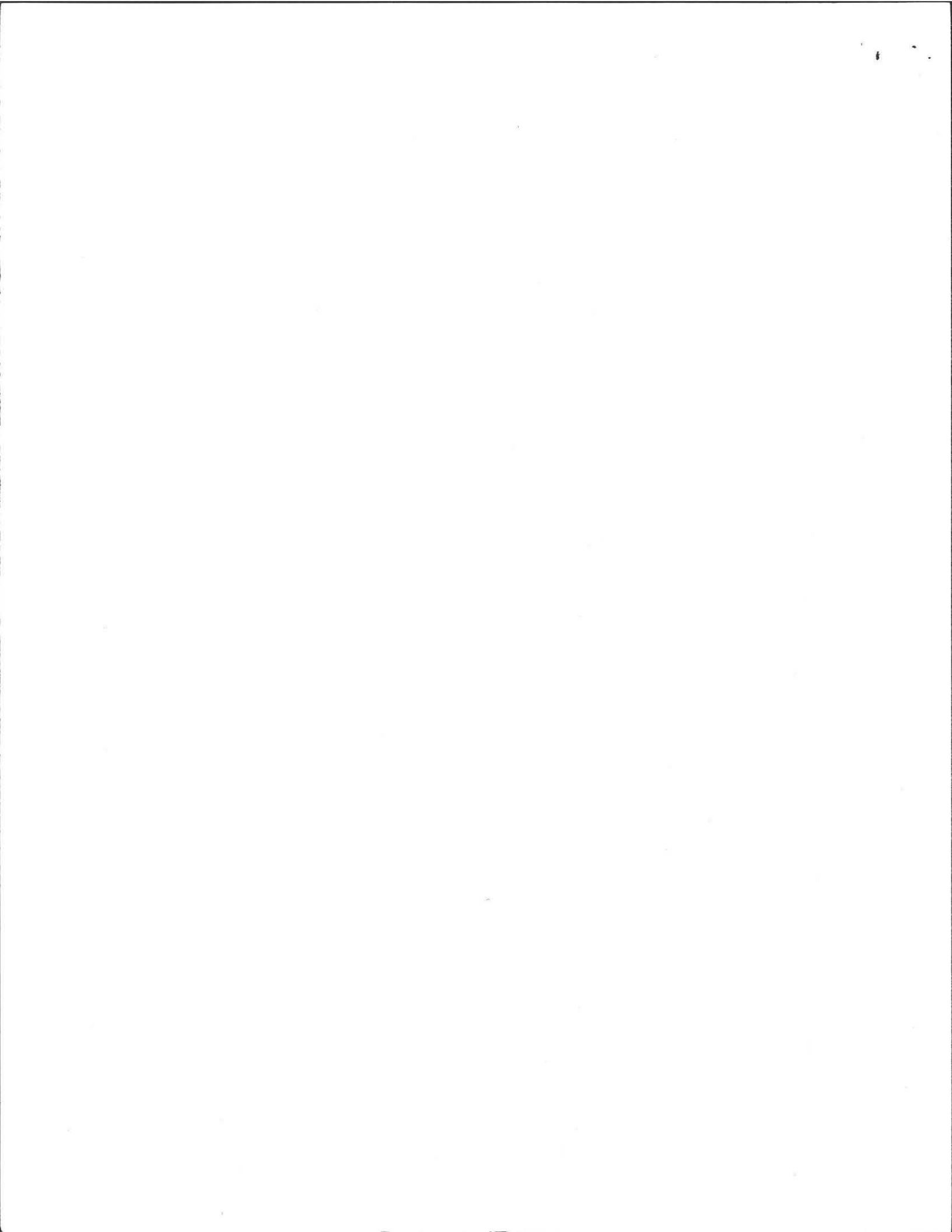
NO WATER

PERC @ 60"
1" / 3 MINS



PERC 48"
1" / 3 MINS

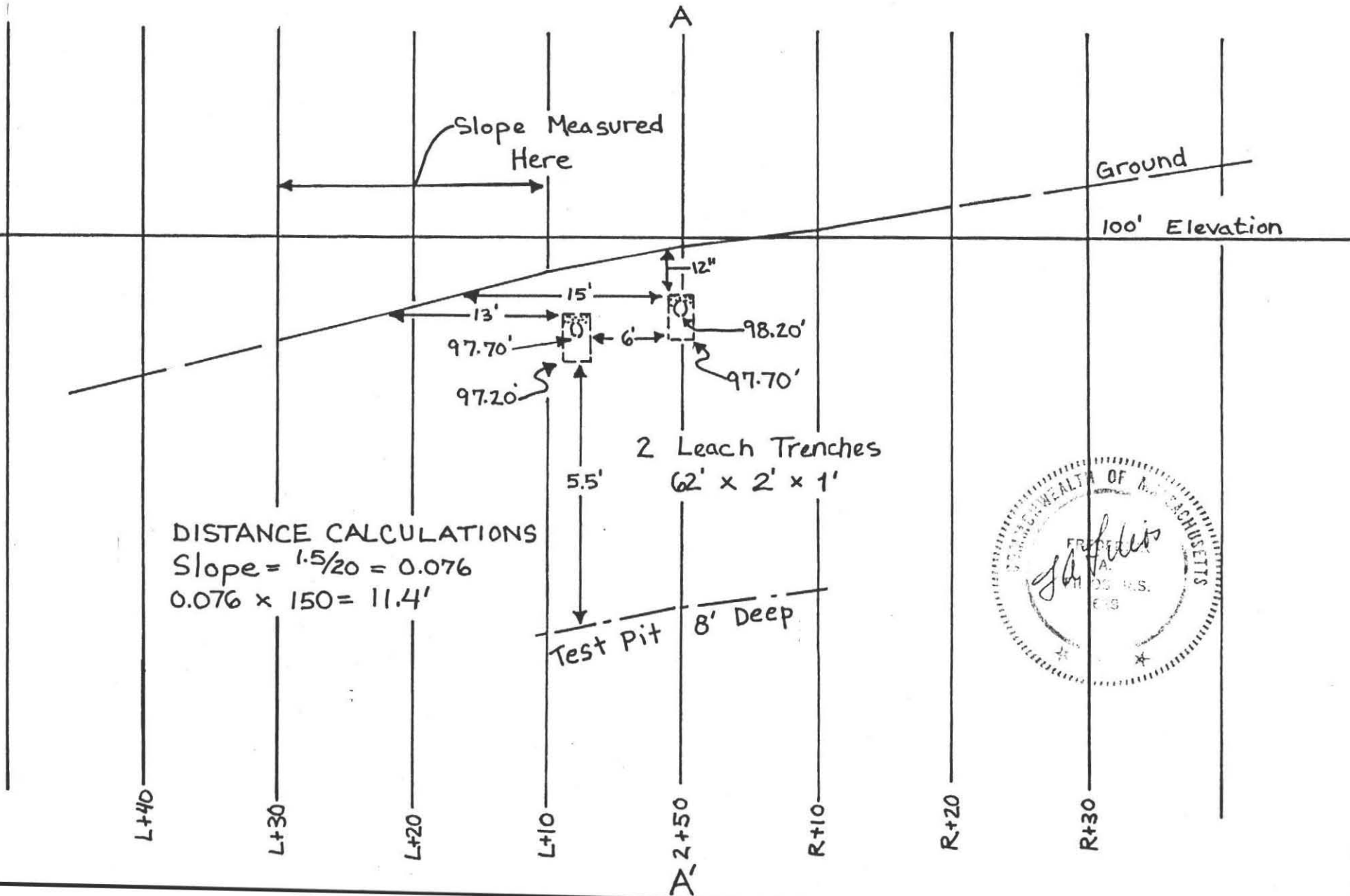




CROSS-SECTION OF TRENCHES AT A-A'

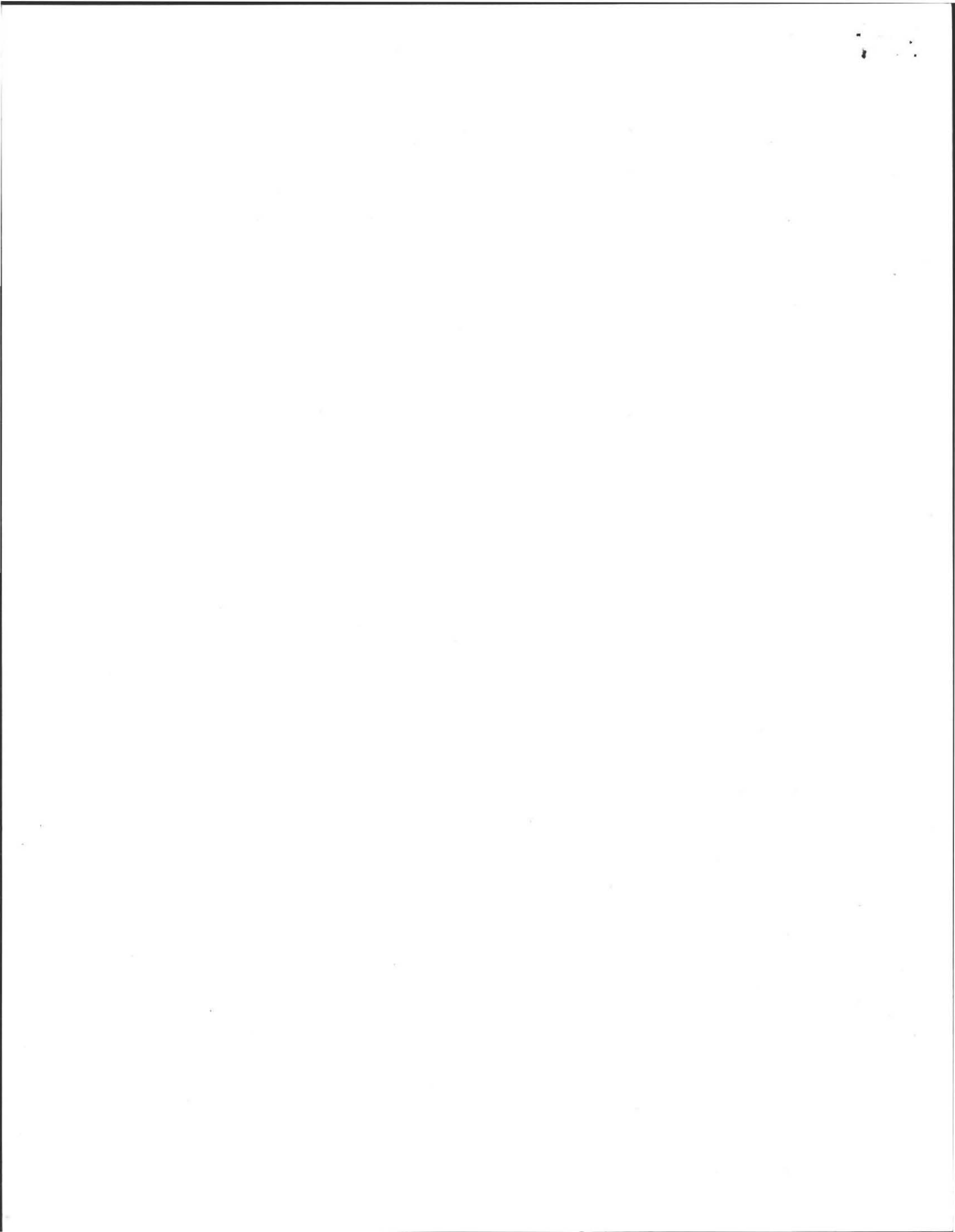
For: George & Ruth Wade
 156 Alpine Dr., Amherst, MA
 Site: 160 Shays St., Amherst

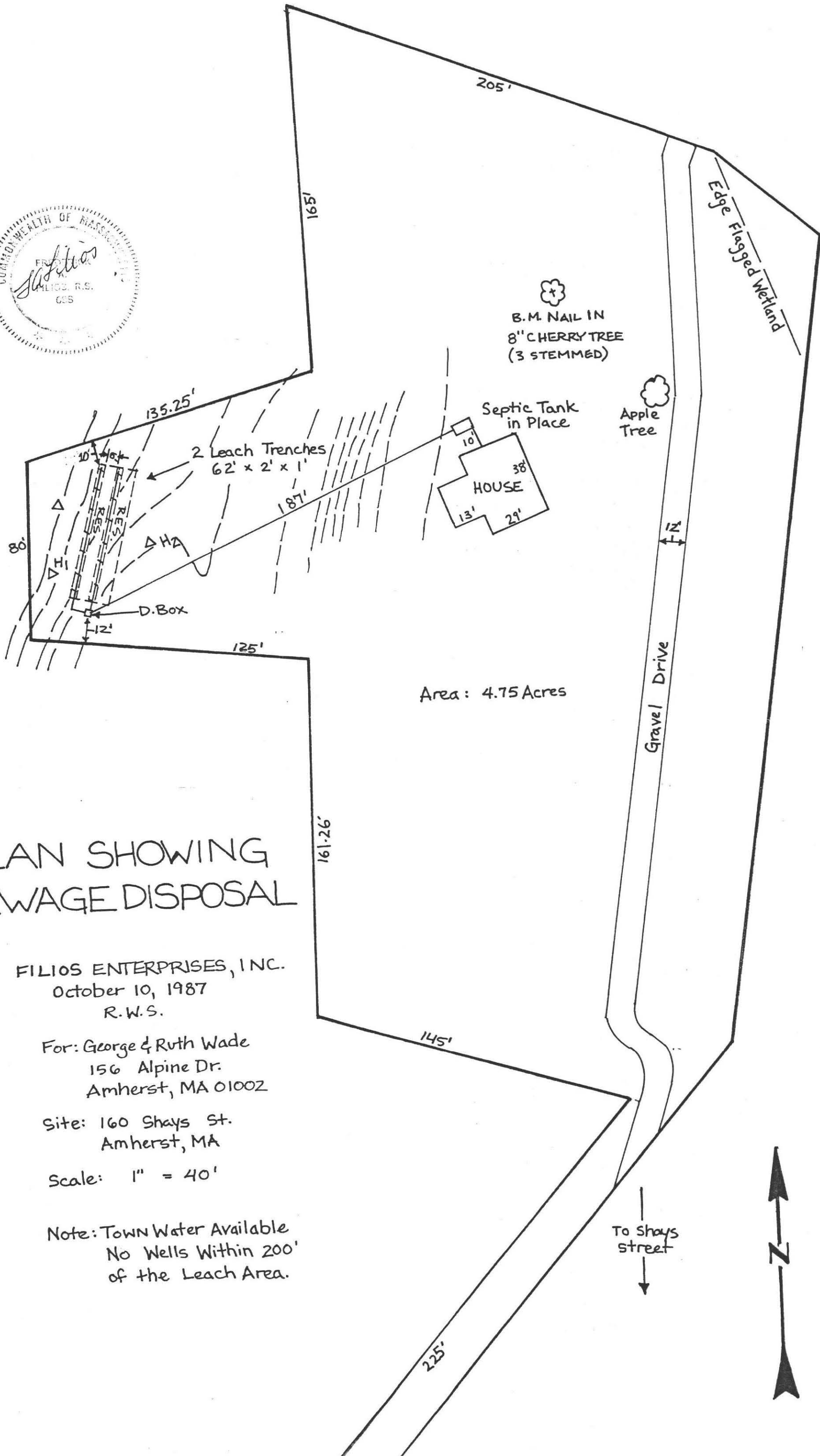
FILIOS ENTERPRISES, INC.
 October 8, 1987 R.W.S.
 Scale: Horizontal: 1 = 10'
 Vertical: 1 = 3'



DISTANCE CALCULATIONS
 $Slope = \frac{1.5}{20} = 0.076$
 $0.076 \times 150 = 11.4'$







Area: 4.75 Acres

PLAN SHOWING SEWAGE DISPOSAL

FILIOS ENTERPRISES, INC.
October 10, 1987
R.W.S.

For: George & Ruth Wade
156 Alpine Dr.
Amherst, MA 01002

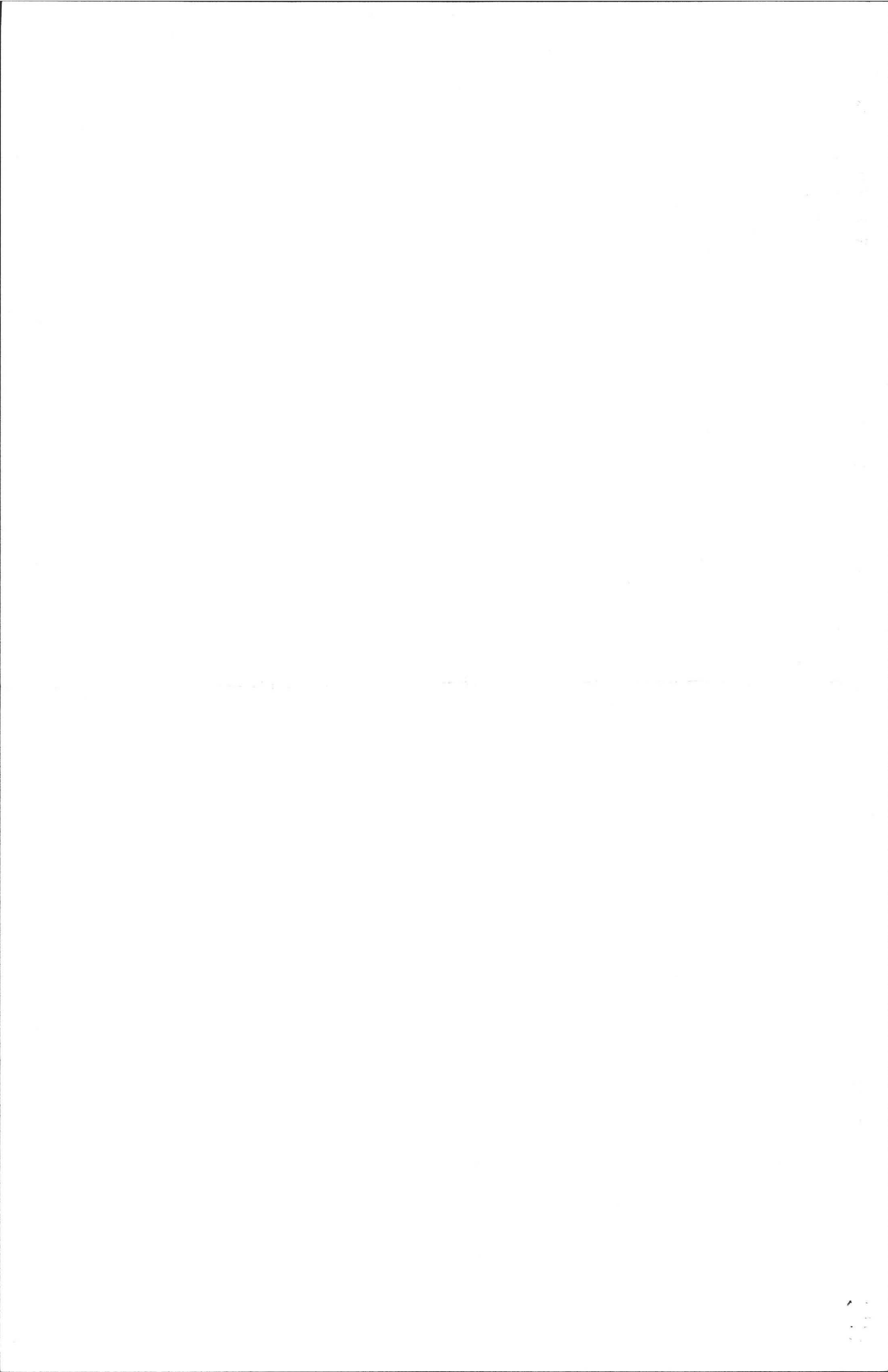
Site: 160 Shays St.
Amherst, MA

Scale: 1" = 40'

Note: Town Water Available
No Wells Within 200'
of the Leach Area.



To Shays street
↓

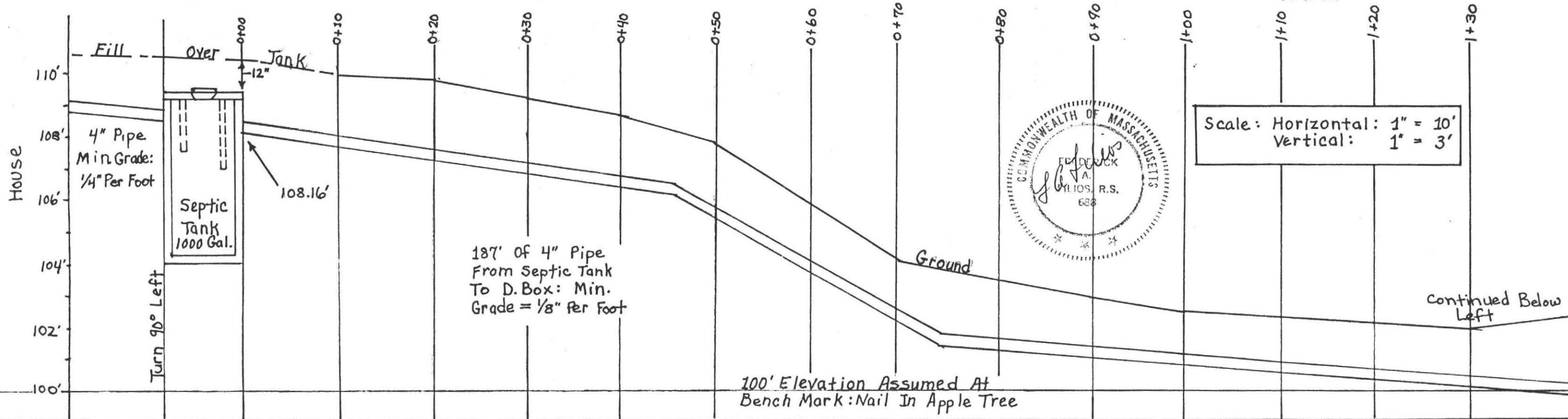


PROFILE OF SEPTIC TANK

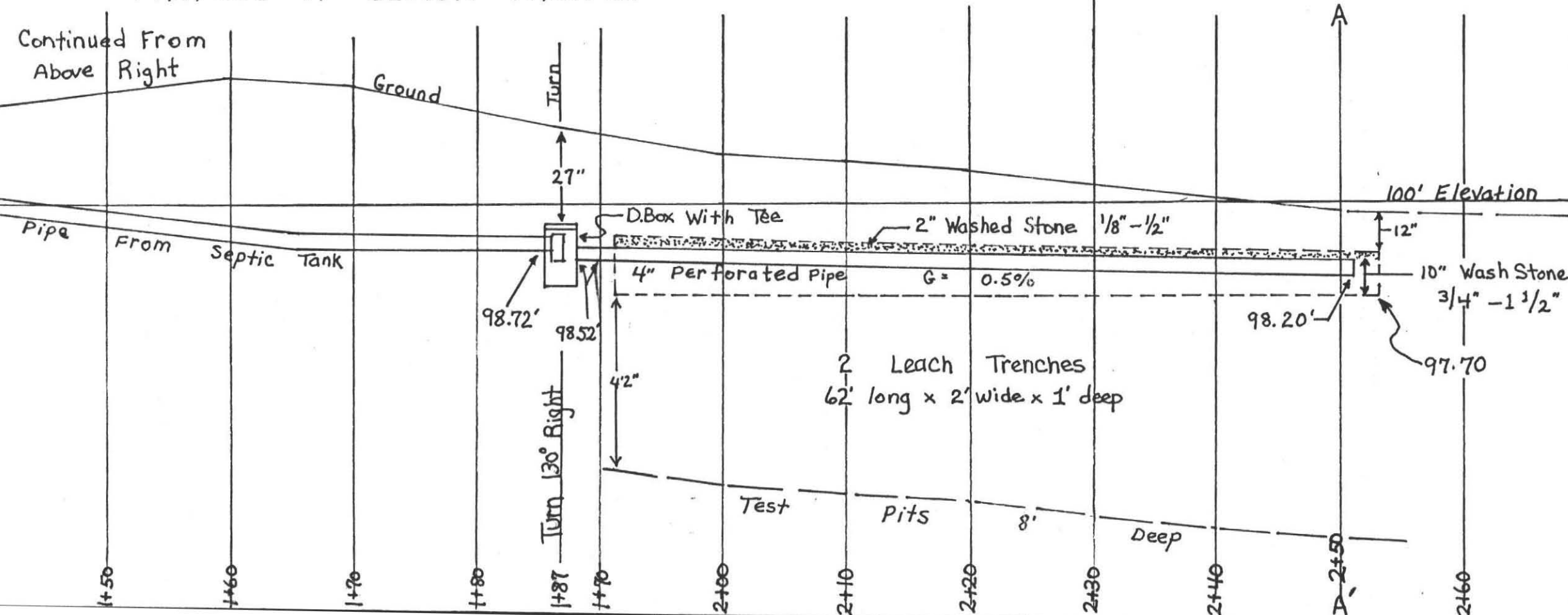
For: George & Ruth Wade
156 Alpine Drive
Amherst, MA 01002

Site: 160 Shays St.
Amherst, MA.

FILIOS ENTERPRISES, INC.
October 8, 1987
R.W.S.



PROFILE OF LEACH TRENCH



CALCULATIONS

Design Flow: 4 Bds @ 110 = 440 Gal.s
Perc Rate: 4 min.s/Inch
2 Trenches: 62' x 2' x 0.5' below inlet
Sides: (62' x 1') 2 = 124 x 2 = 248 Gal.s
Bottom: (62' x 2') 2 = 248 x .83 = 205 Gal.s
Total Available Daily Flow = 453 Gal.s

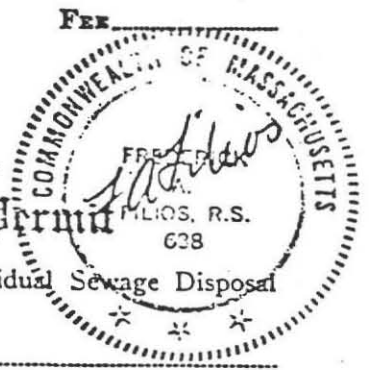
SPECIFICATIONS

All Materials And Construction
Shall be In Accordance With
Commonwealth Of Massachusetts
D.E.Q.E. Environmental Code,
Title 5.

CROSS-SECTION ON ATTACHED SHEET

No. 87-6
Revised

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH



Town Amherst OF

Application for Disposal Works Construction Permit

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

Shays Street 160
George & Ruth Wade 156 Alpine Dr, Amherst
Location - Address or Lot No. Address
Owner Installer

Type of Building Dwelling — No. of Bedrooms 4 Expansion Attic () Garbage Grinder (no)
Other — Type of Building _____ No. of persons _____ Showers () — Cafeteria ()
Other fixtures _____

Design Flow 55 gallons per person per day. Total daily flow 440 gallons.
Septic Tank ✓ Liquid capacity 1500 gallons Length 10.5' Width 5' Diameter _____ Depth 5'4"
Disposal Trench ✓ No. 2 Width 2' Total Length 164' Total leaching area 124 sq. ft. Sides
Seepage Pit No. _____ Diameter _____ Depth below inlet 5' Total leaching area 248 sq. ft. Bottom

Other Distribution box (✓) Dosing tank ()
Percolation Test Results Performed by John A. Brickett Date Jan. 15, 1987
Test Pit No. 1 4' minutes per inch Depth of Test Pit 8' Depth to ground water None
Test Pit No. 2 _____ minutes per inch Depth of Test Pit 8' Depth to ground water None

Description of Soil Attached

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 _____ Date _____
Application Approved By _____ Date _____
Application Disapproved for the following reasons: _____ Date _____
Permit No. _____ Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town Amherst OF

Certificate of Compliance

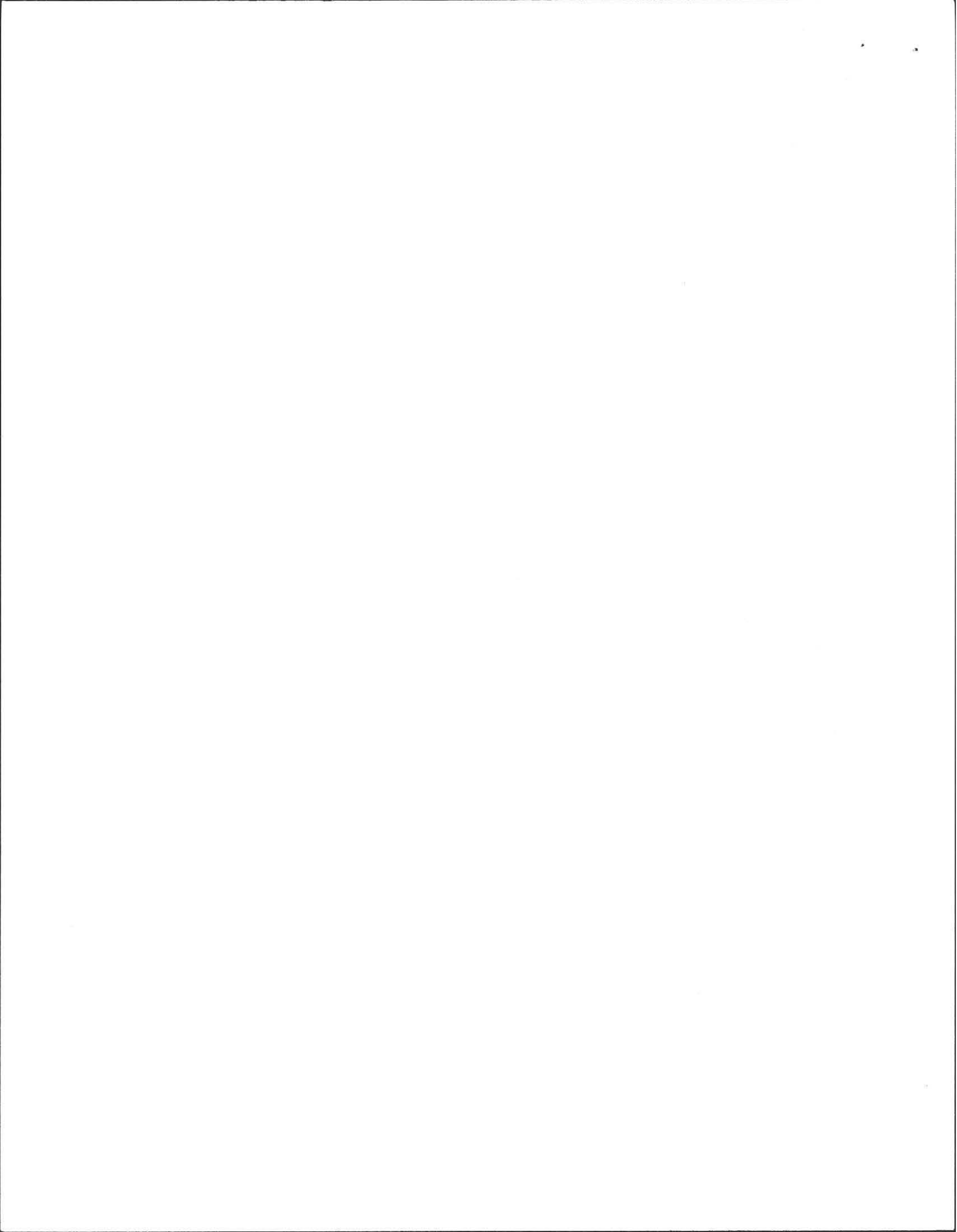
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed (✓) or Repaired () by _____

at 160 Shays Street 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. _____ dated _____

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

DATE _____ Inspector _____

CHECK OR FILL IN WHERE APPLICABLE

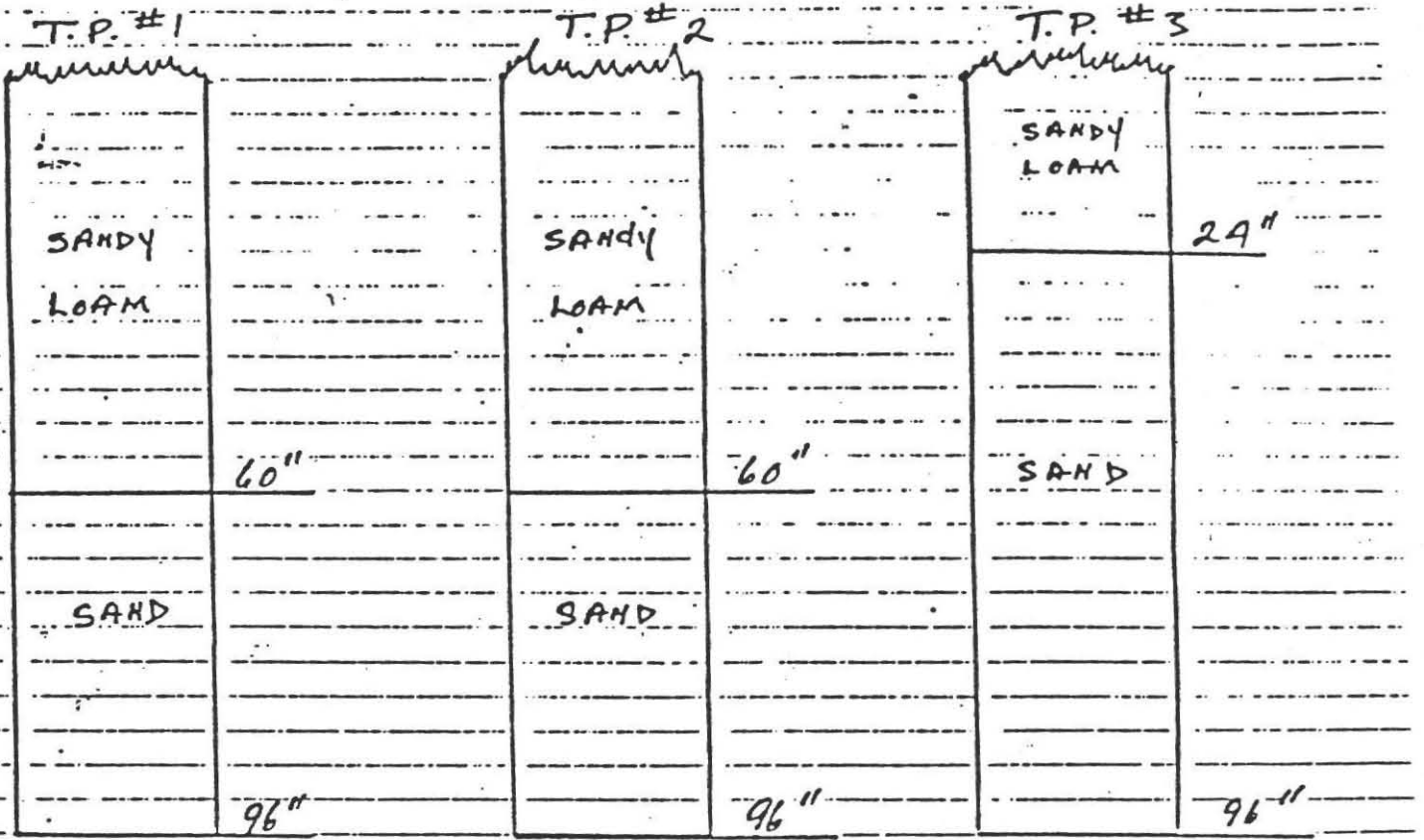


TESTED BY: HOWARD ROBIN - 51 LONG PLAIN Rd LEVERETT, MA.

LOCATION: NORTH SIDE SLAYS ST, AMHERST, MA.

DATE: 1/15/86

OBSERVER: C. BRAKE, R.S.



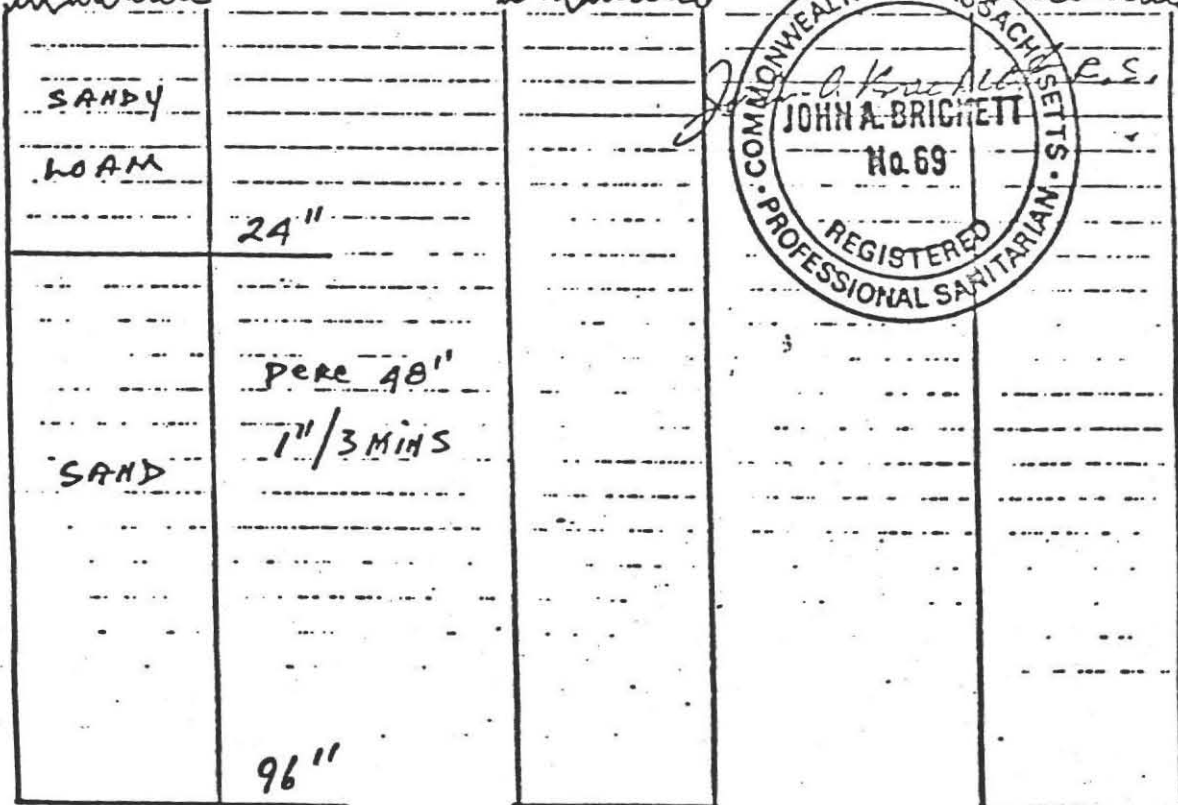
NO WATER

NO WATER

NO WATER

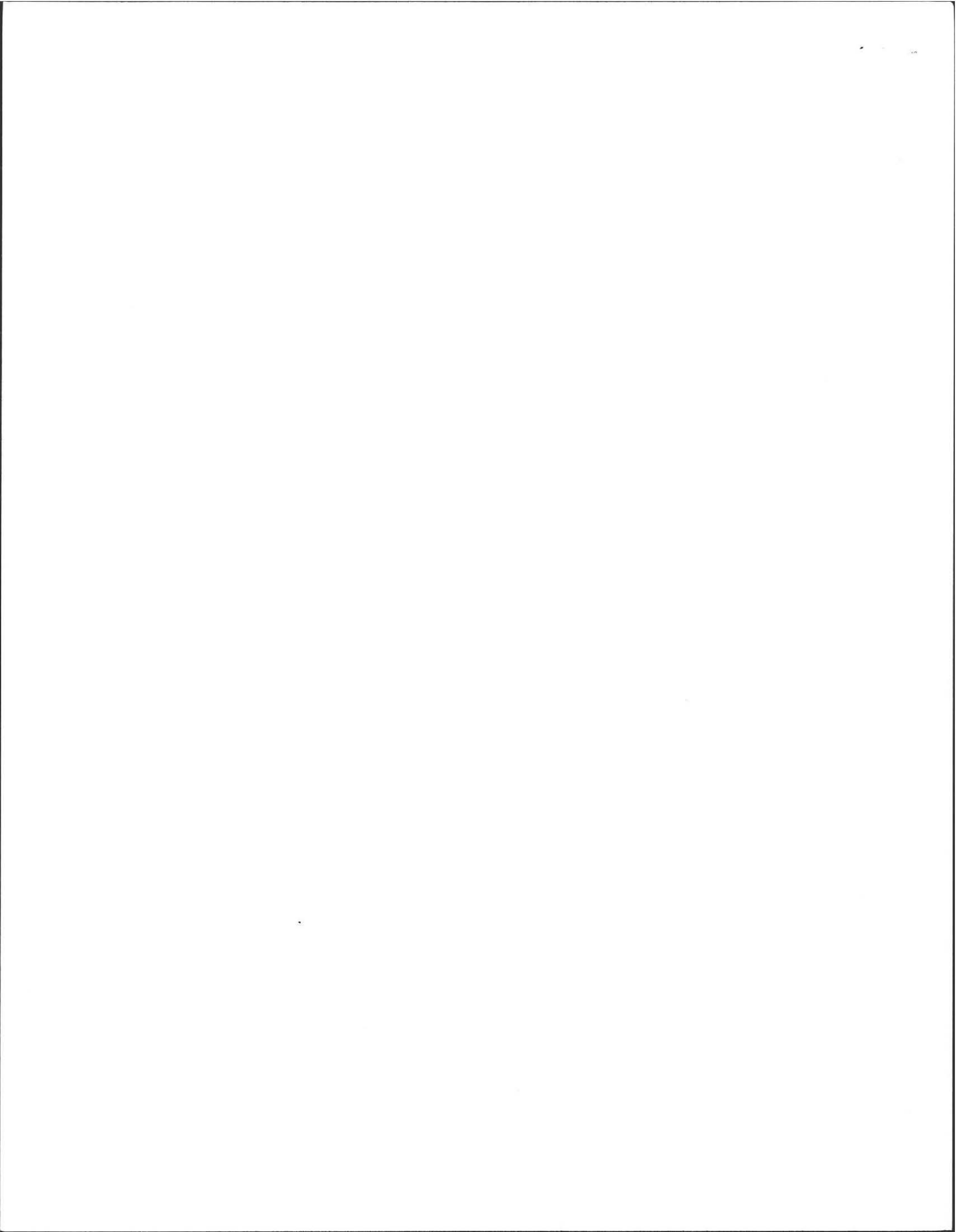
Perc @ 60"
1" / 3 MINS

T.P. #4



NO WATER

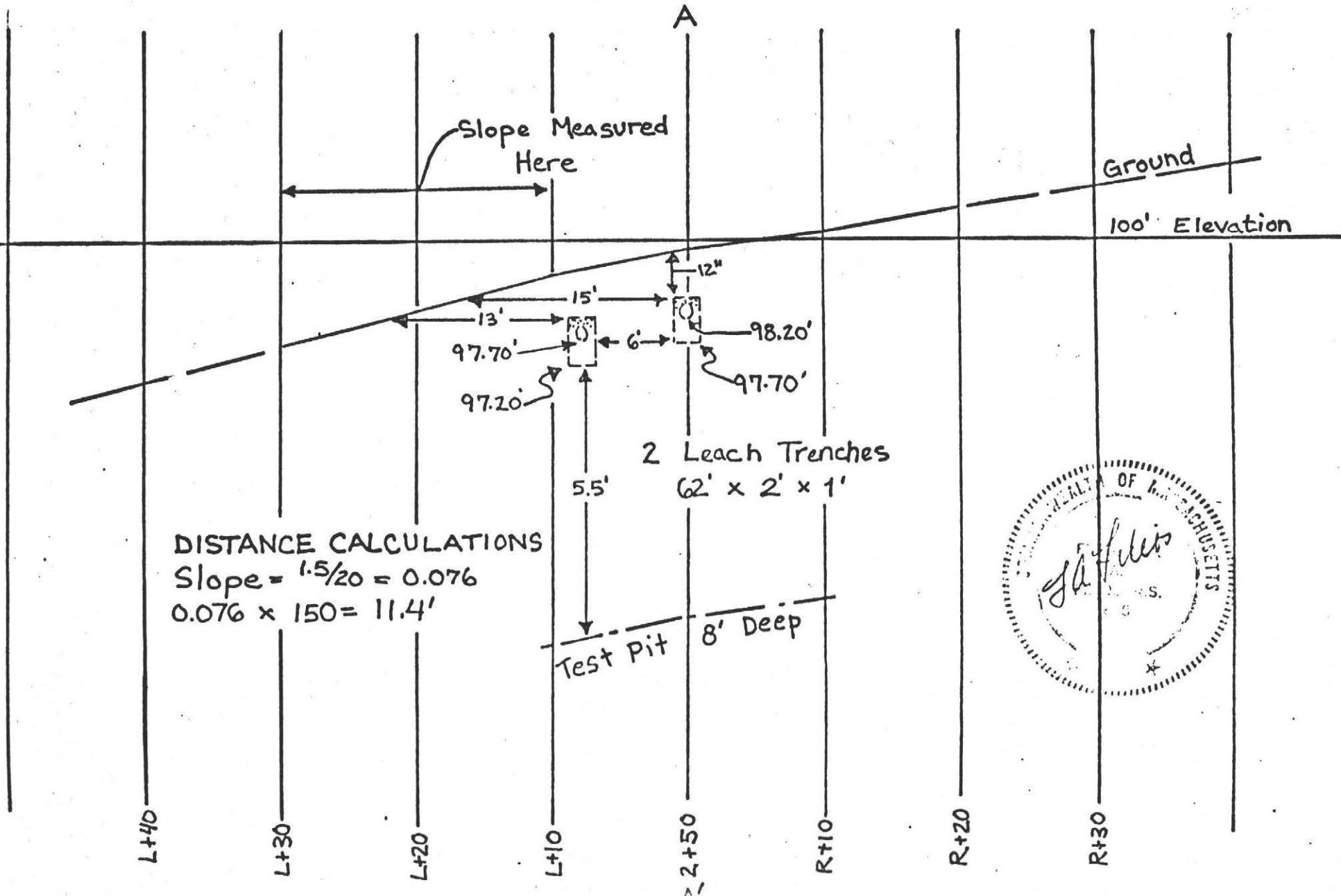




CROSS-SECTION OF TRENCHES AT A-A'

For: George & Ruth Wade
 156 Alpine Dr., Amherst, MA
 Site: 160 Shays St., Amherst

FILIOS ENTERPRISES, INC.
 October 8, 1987 R.W.S.
 Scale: Horizontal: 1 = 10'
 Vertical: 1 = 3'

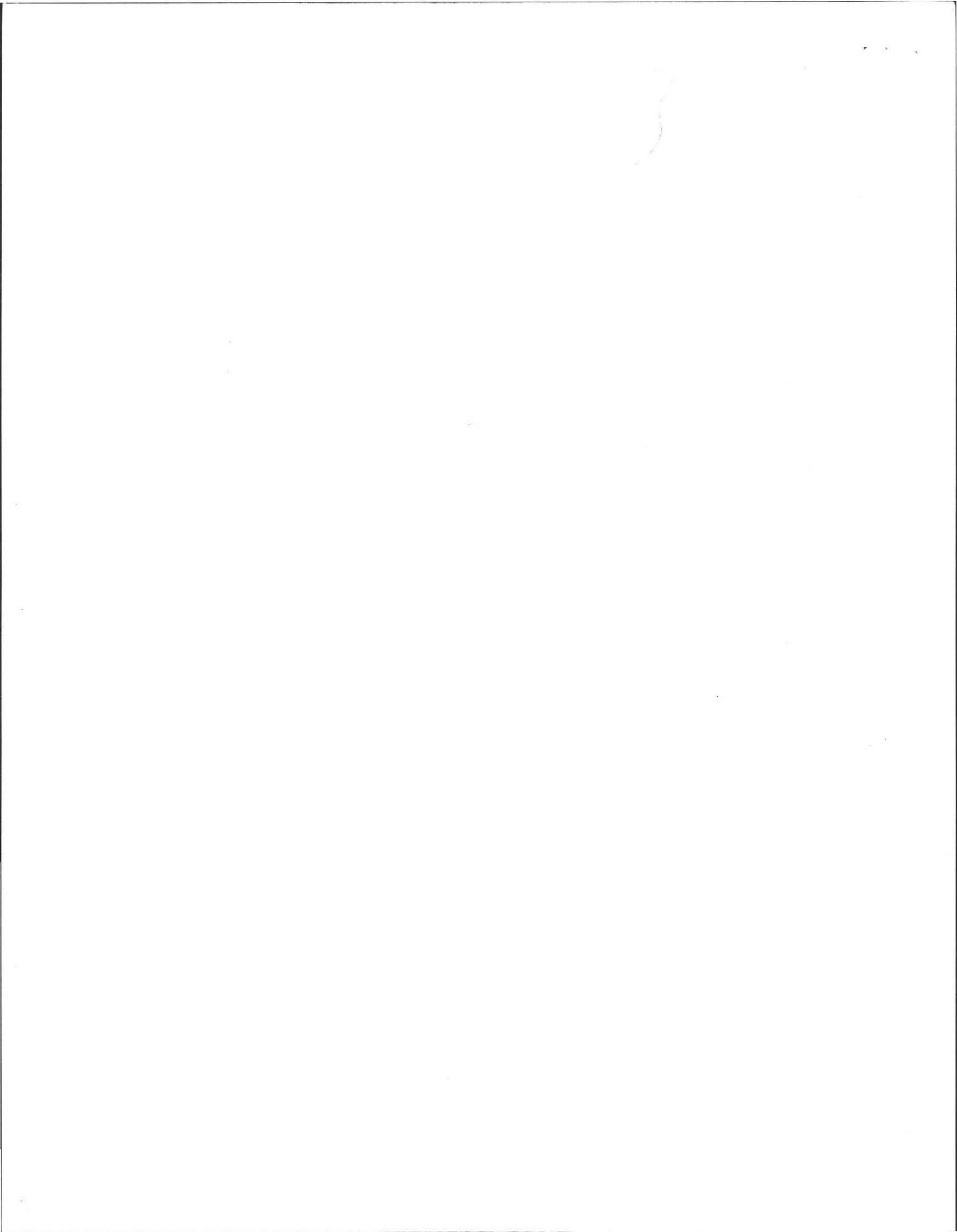


DISTANCE CALCULATIONS
 $Slope = \frac{1.5}{20} = 0.076$
 $0.076 \times 150 = 11.4'$

2 Leach Trenches
 6' x 2' x 1'

Test Pit 8' Deep



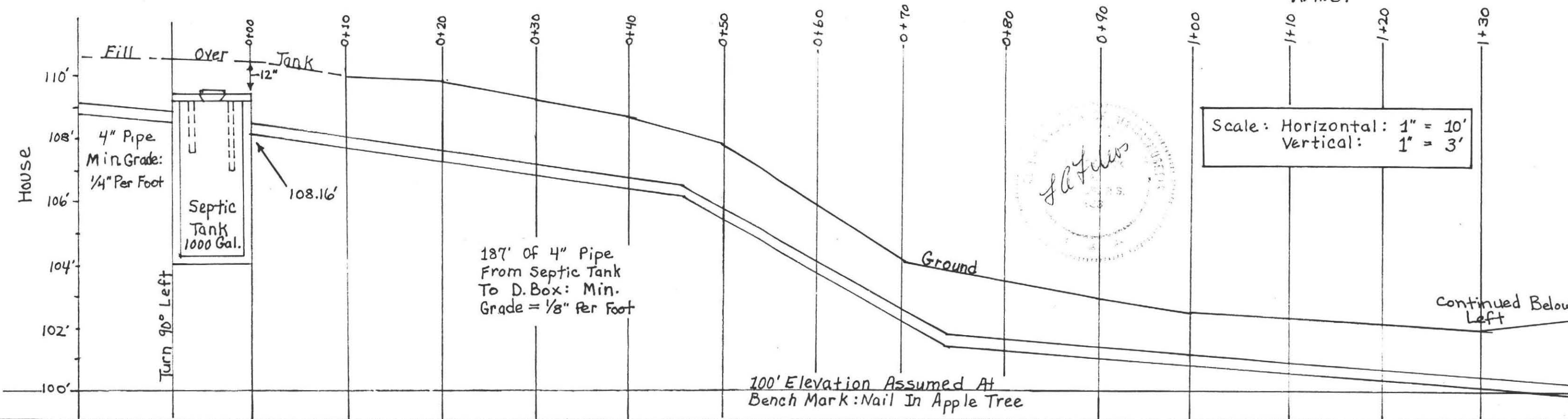


PROFILE OF SEPTIC TANK

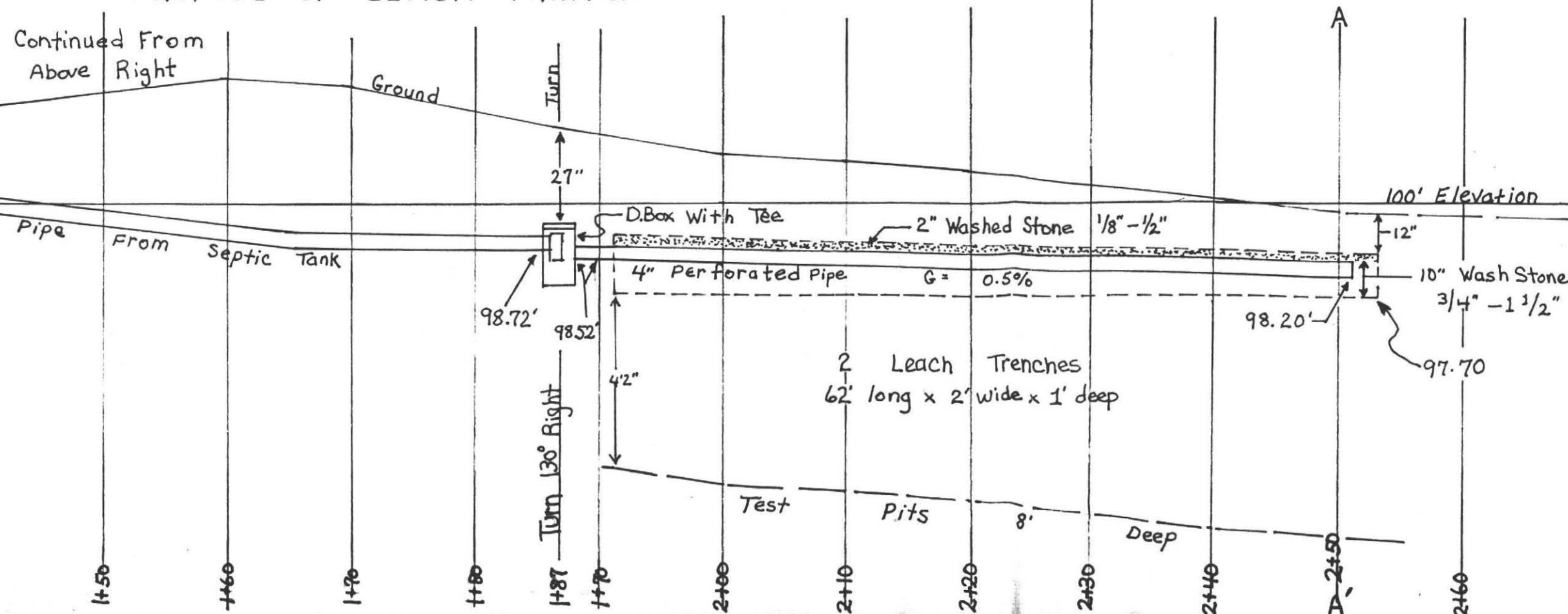
For: George & Ruth Wade
156 Alpine Drive
Amherst, MA 01002

Site: 160 Shays St.
Amherst, MA.

FILIOS ENTERPRISES, INC.
October 8, 1987
R.W.S.



PROFILE OF LEACH TRENCH



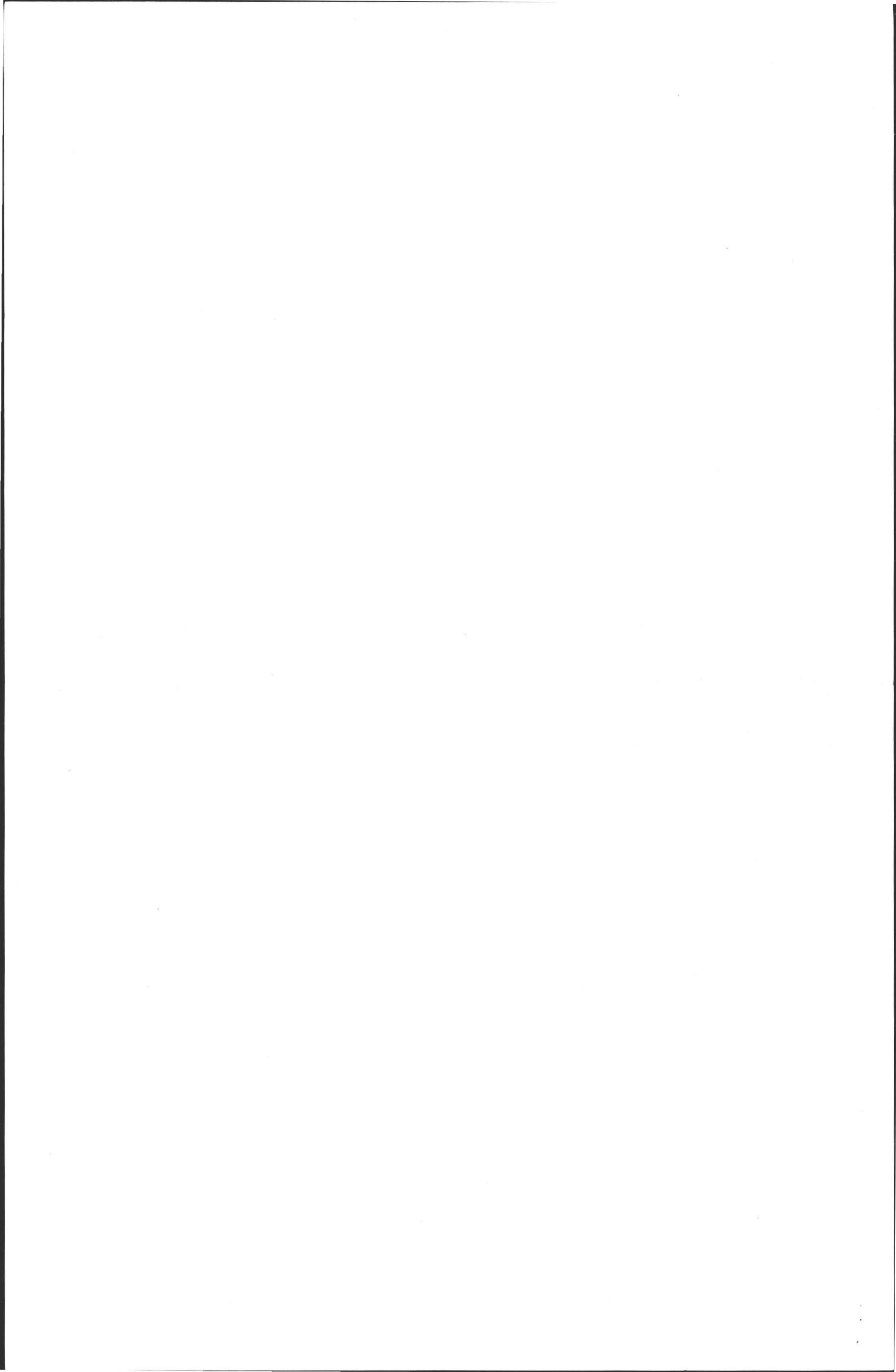
CALCULATIONS

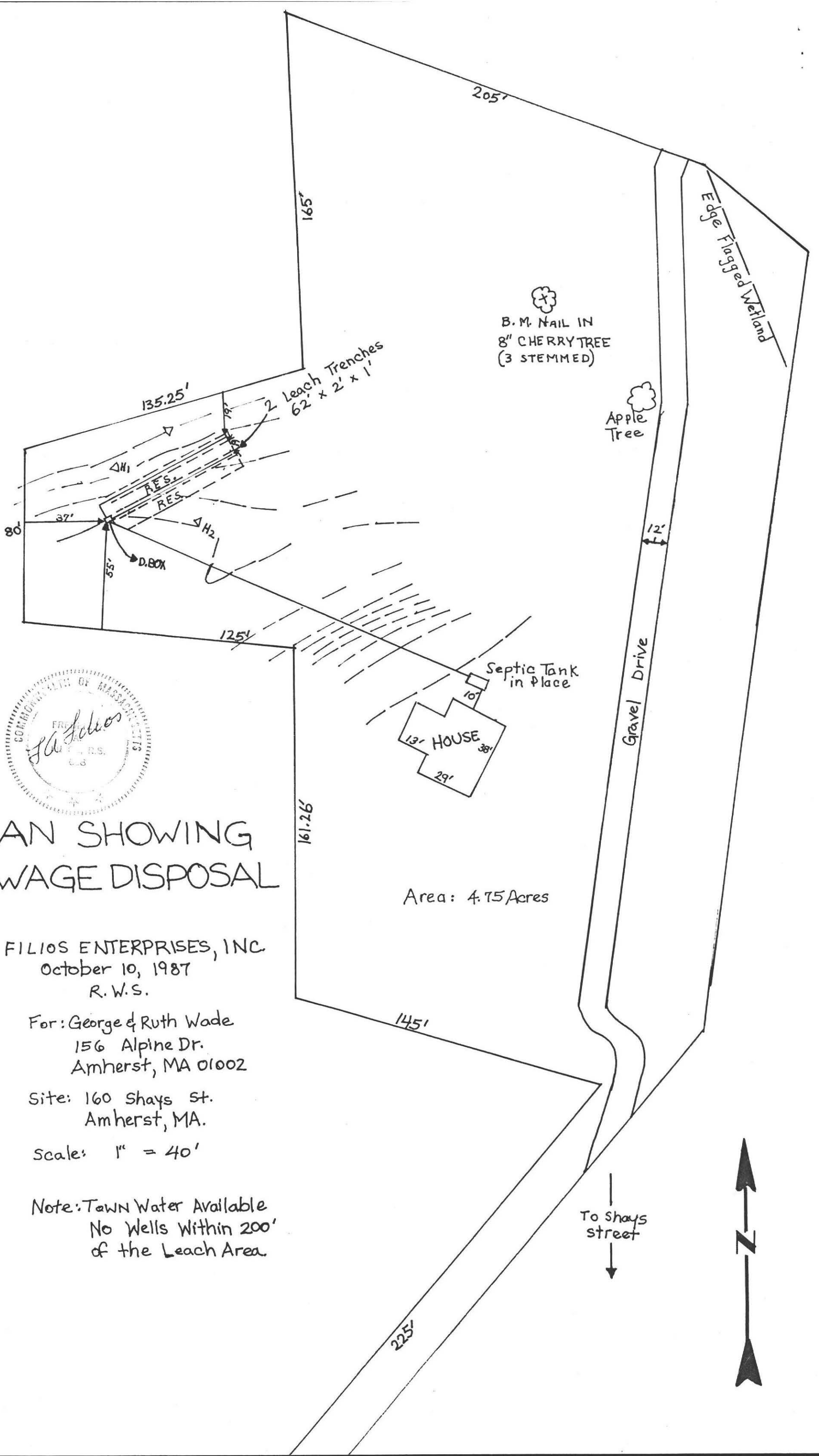
Design Flow: 4 Bds @ 110 = 440 Gal.
Perç Rate: 4 Min.s/Inch
2 Trenches: 62' x 2' x 0.5' below inlet
Sides: $(62' \times 1') \times 2 = 124 \times 2 = 248$ Gal.
Bottom: $(62' \times 2') \times 2 = 248 \times .83 = 205$ Gal.
Total Available Daily Flow = 453 Gal.s

SPECIFICATIONS

All Materials And Construction
Shall be In Accordance With
Commonwealth Of Massachusetts
D.E.Q.E. Environmental Code,
Title 5.

CROSS-SECTION ON ATTACHED SHEET





PLAN SHOWING SEWAGE DISPOSAL

FILIOS ENTERPRISES, INC.
 October 10, 1987
 R.W.S.

For: George & Ruth Wade
 156 Alpine Dr.
 Amherst, MA 01002

Site: 160 Shays St.
 Amherst, MA.

Scale: 1" = 40'

Note: TOWN Water Available
 No Wells Within 200'
 of the Leach Area.

Area: 4.75 Acres

To Shays Street





No. 87-6
Revised

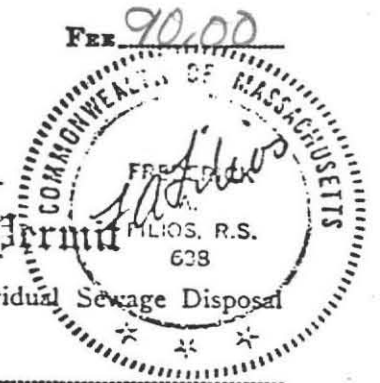
11/19/87

Fee 90.00

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town Amherst OF

Application for Disposal Works Construction Permit



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

160 Shays Street 160
Location - Address or Lot No.
George & Ruth Wade 156 Alpine Dr, Amherst
Owner Address

Type of Building _____
Dwelling — No. of Bedrooms 4 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 440 gallons.
Septic Tank Liquid capacity 1500 gallons Length 10.5' Width 5' Diameter _____ Depth 5'4"
Disposal Trench No. 2 Width 2' Total Length 16.4' Total leaching area 124 sq. ft. *Sides*
Seepage Pit No. _____ Diameter _____ Depth below inlet 5' Total leaching area 248 sq. ft. *Bottom*

Other Distribution box () Dosing tank ()
Percolation Test Results Performed by John A. Brickett Date Jan. 15, 1987
Test Pit No. 1 4' minutes per inch Depth of Test Pit 8' Depth to ground water None
Test Pit No. 2 _____ minutes per inch Depth of Test Pit 8' Depth to ground water None

Description of Soil Attached

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] 11/19/87
Date

Application Approved By _____ Date _____

Application Disapproved for the following reasons: _____
Date _____

Permit No. _____ Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town Amherst OF

Certificate of Compliance

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

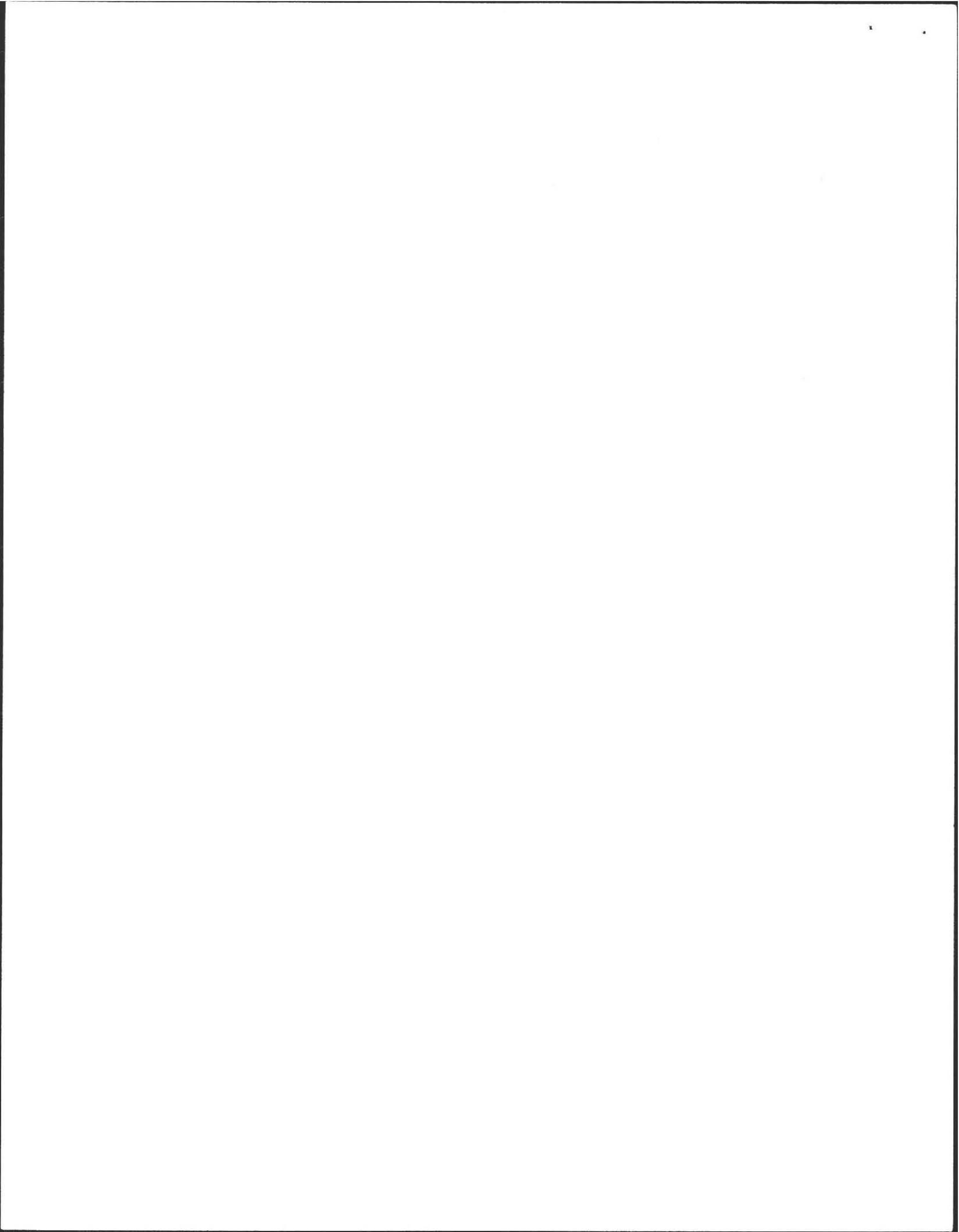
at 160 Shays Street Installer

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. _____ dated _____

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

DATE _____ Inspector _____

CHECK OR FILL IN WHERE APPLICABLE



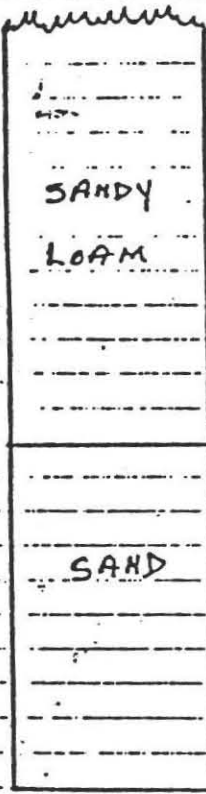
TESTED BY: HOWARD ROBIN - 51 LONG PLAIN Rd Leverett, MA.

LOCATION: NORTH SIDE SLAYS ST, AMHERST, MA.

DATE: 1/15/86

OBSERVER: C. BRAKE, R.S.

T.P. #1

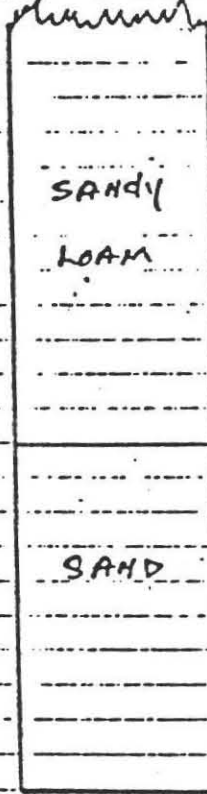


60"

96"

NO WATER

T.P. #2

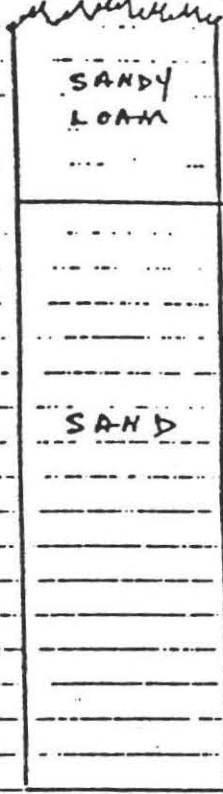


60"

96"

NO WATER

T.P. #3



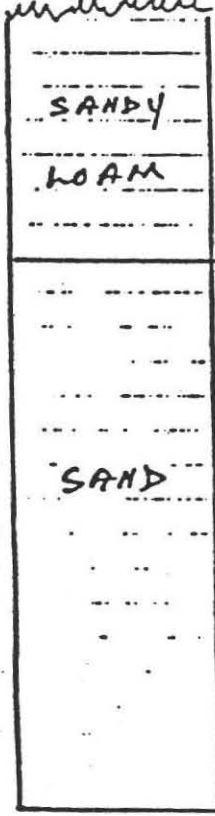
24"

96"

NO WATER

PERC. @ 60"
1" / 3 MINS

T.P. #4



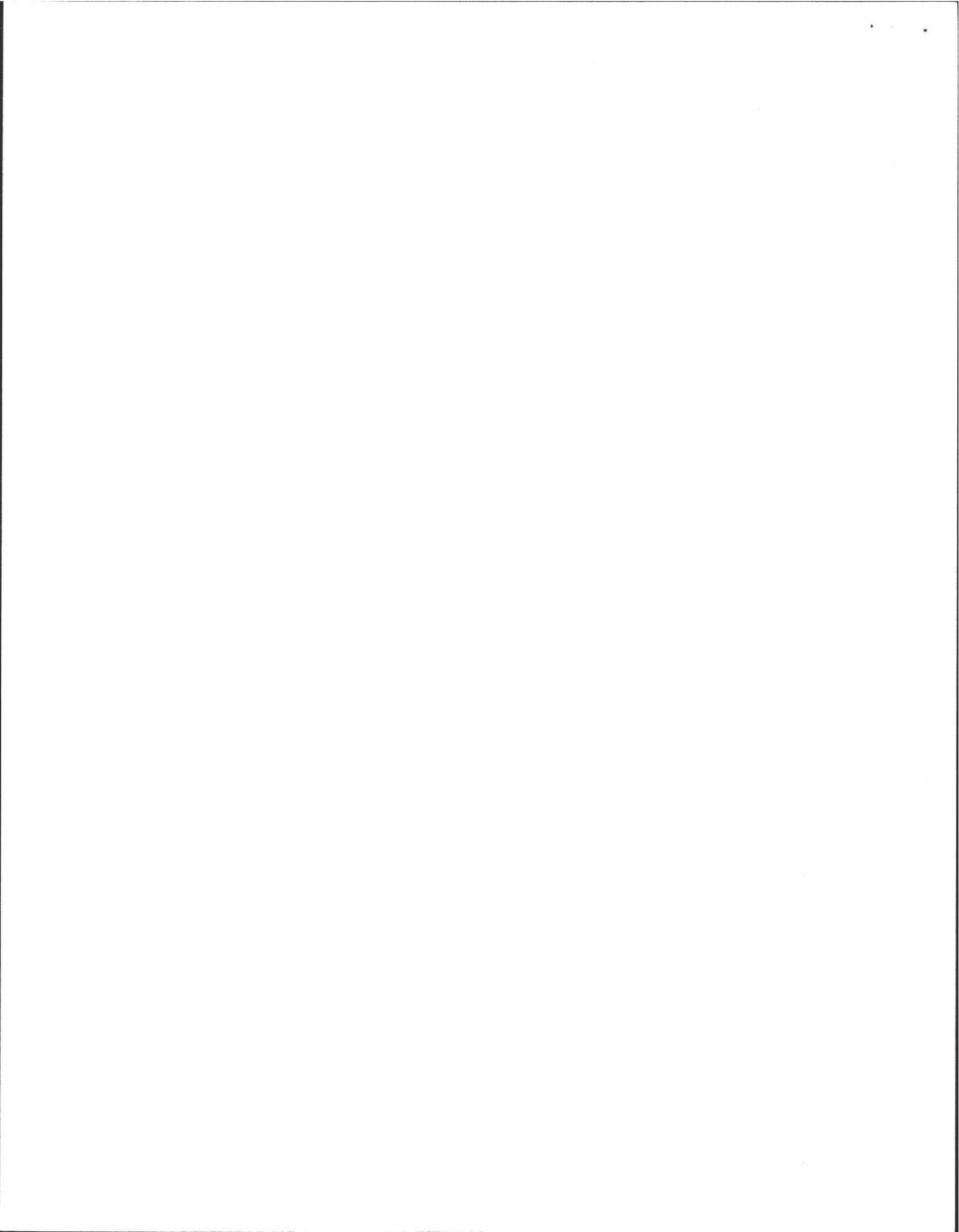
24"

PERC 48"
1" / 3 MINS

96"

NO WATER

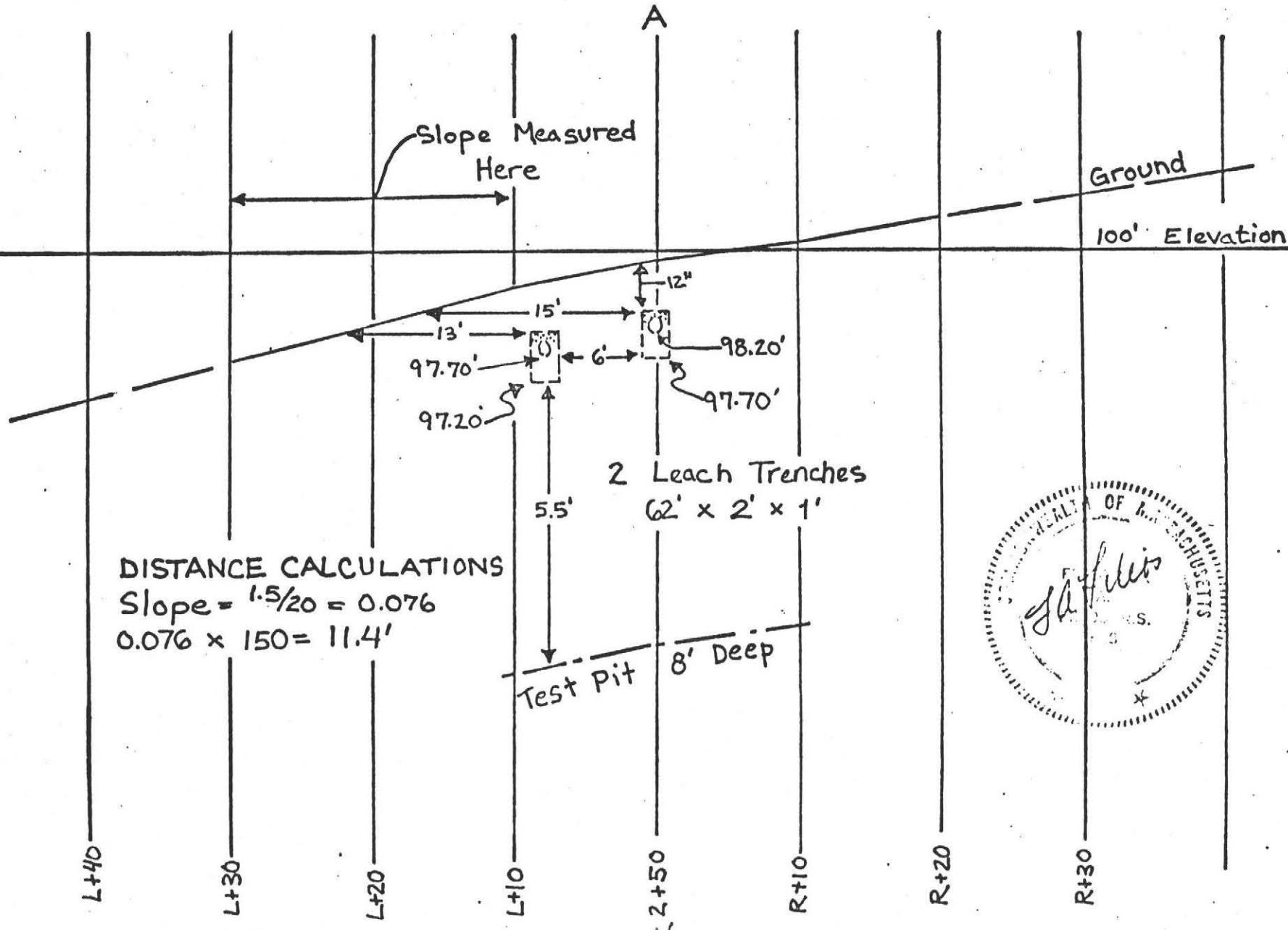


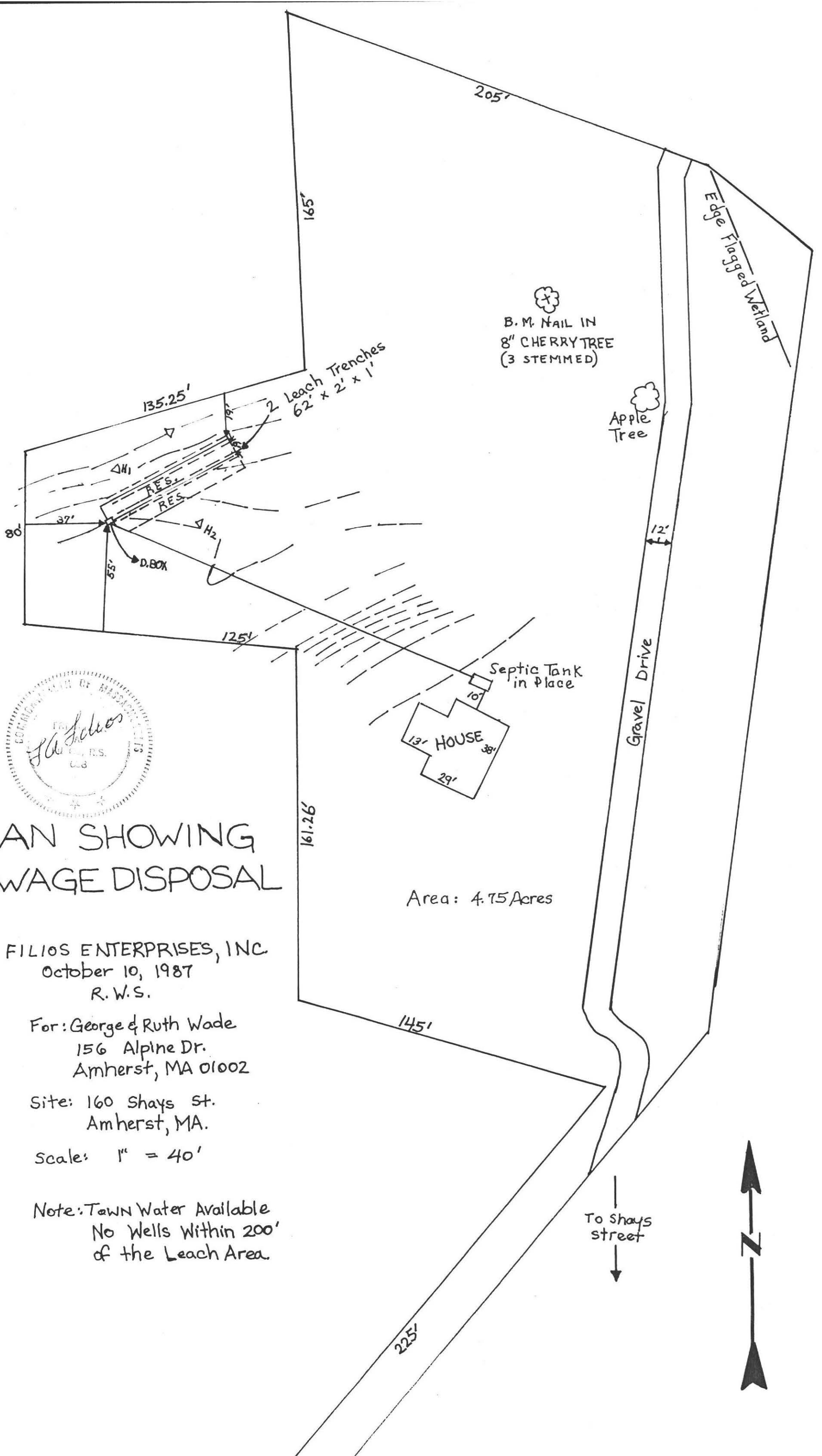


CROSS-SECTION OF TRENCHES AT A-A'

For: George & Ruth Wade
 156 Alpine Dr., Amherst, MA
 Site: 160 Shays St., Amherst

FILIOS ENTERPRISES, INC.
 October 8, 1987 R.W.S.
 Scale: Horizontal: 1 = 10'
 Vertical: 1 = 3'





PLAN SHOWING SEWAGE DISPOSAL

FILIOS ENTERPRISES, INC.
 October 10, 1987
 R.W.S.

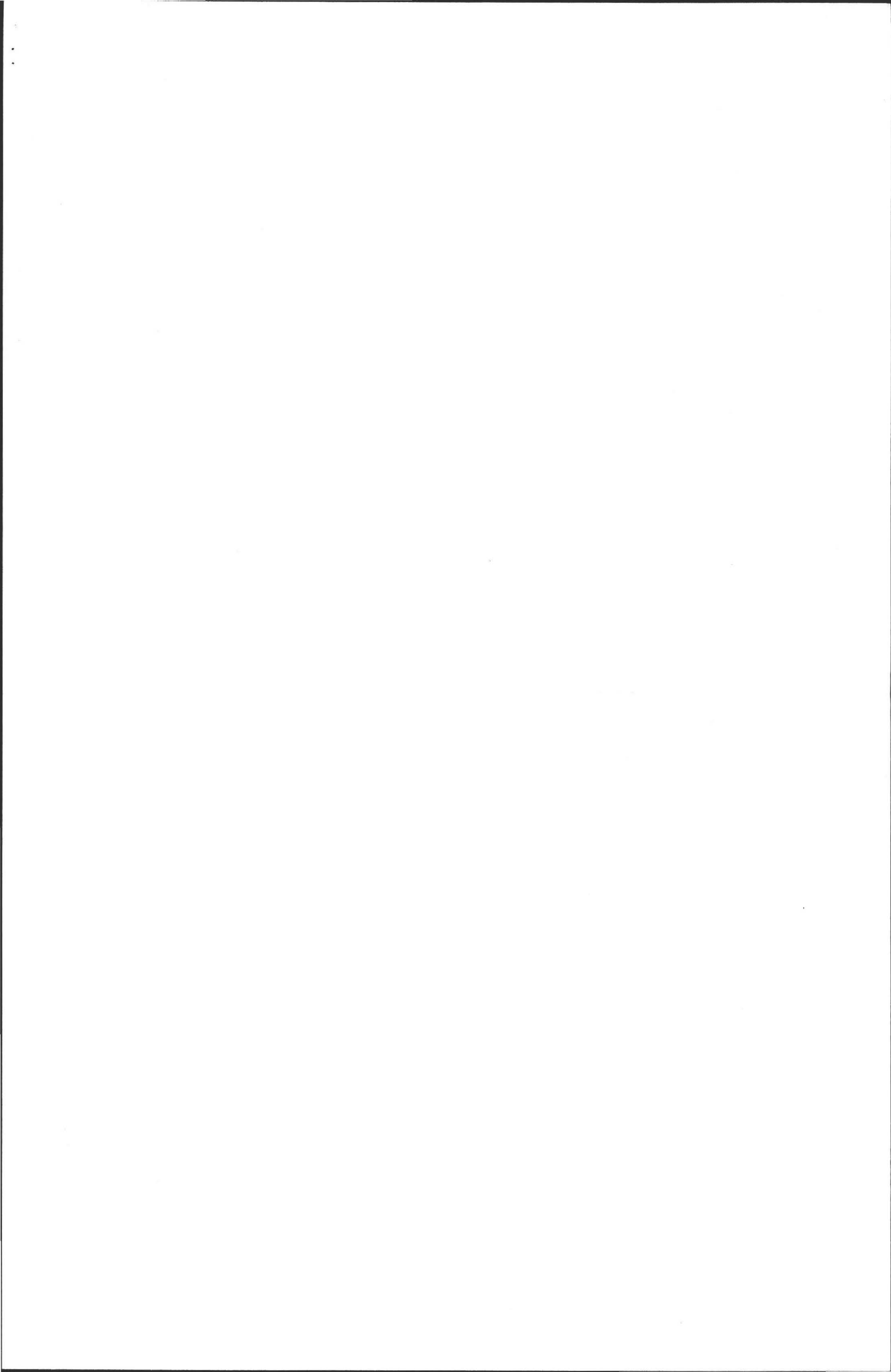
For: George & Ruth Wade
 156 Alpine Dr.
 Amherst, MA 01002

Site: 160 Shays St.
 Amherst, MA.

Scale: 1" = 40'

Note: TOWN Water Available
 No Wells Within 200'
 of the Leach Area.



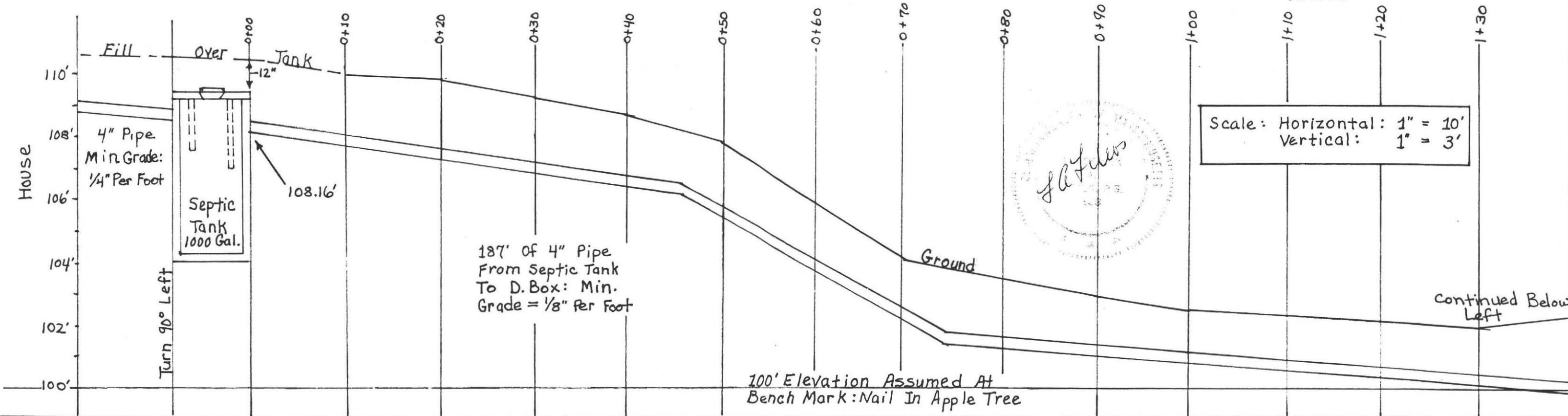


PROFILE OF SEPTIC TANK

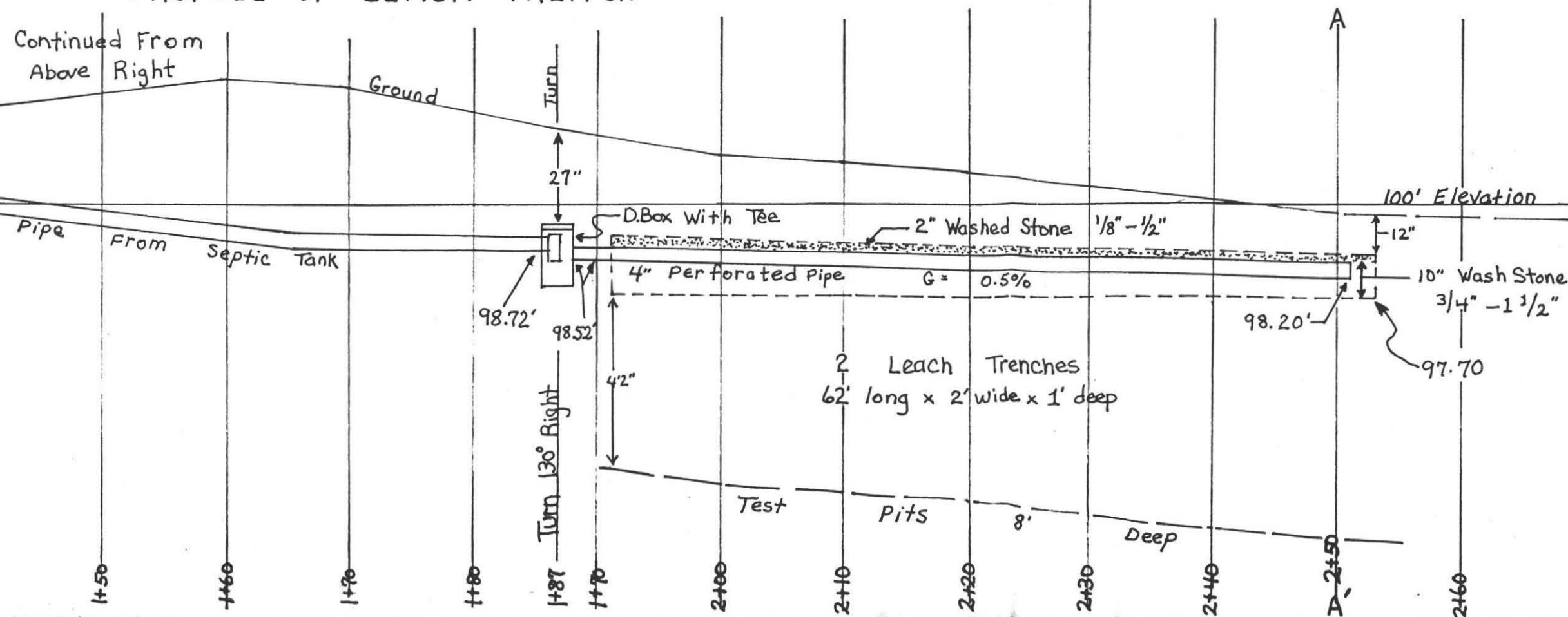
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156 Alpine Drive
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Site: 160 Shays St.
Amherst, MA.

FILIOS ENTERPRISES, INC.
October 8, 1987
R.W.S.



PROFILE OF LEACH TRENCH



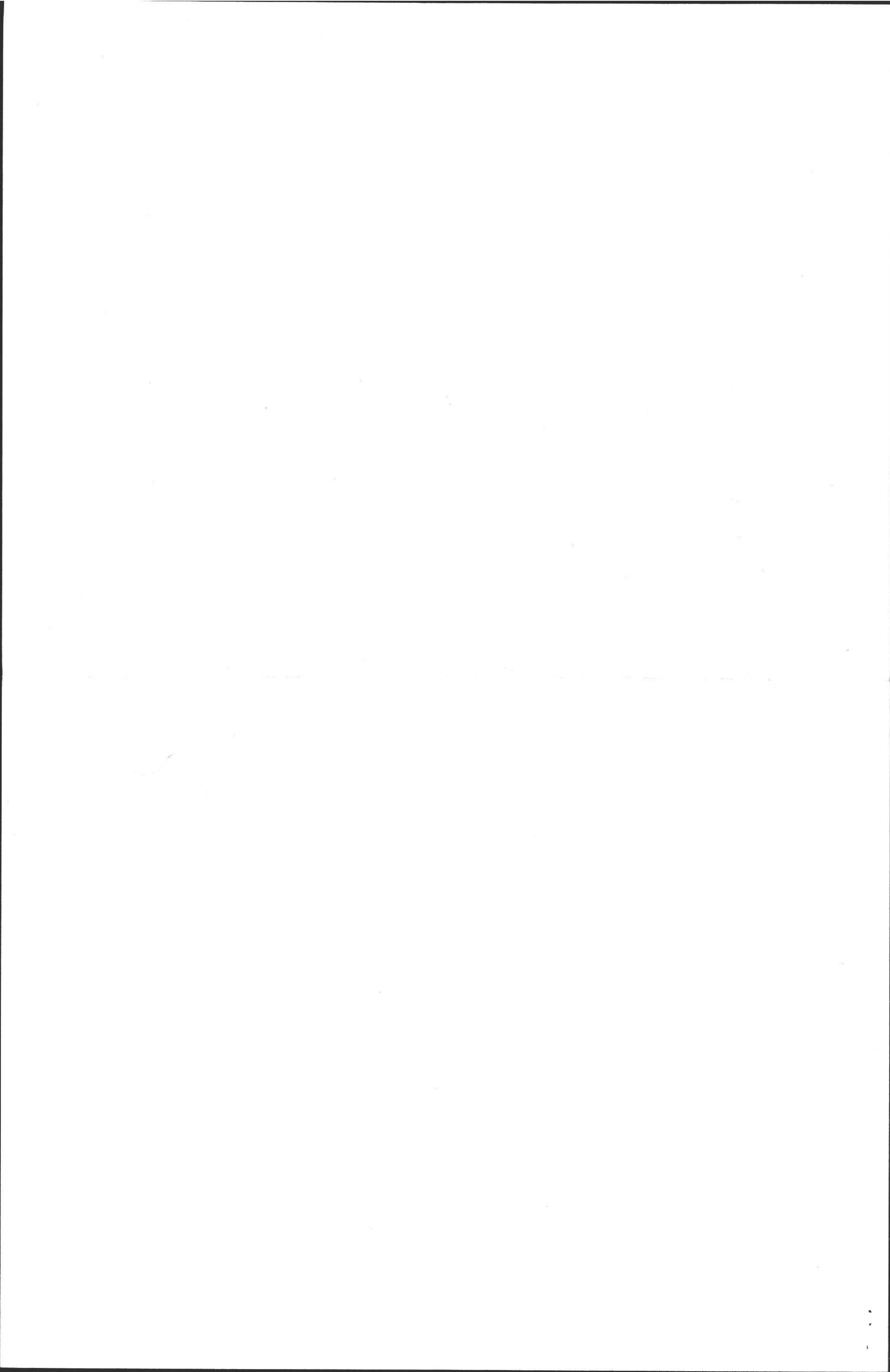
CALCULATIONS

Design Flow: 4 Bds @ 110 = 440 Gal.s
 Perc Rate: 4 Min.s/Inch
 2 Trenches: 62' x 2' x 0.5' below inlet
 Sides: (62' x 1') 2 = 124 x 2 = 248 Gal.
 Bottom: (62' x 2') 2 = 248 x .83 = 205 Gal.
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SPECIFICATIONS

All Materials And Construction
 Shall be In Accordance With
 Commonwealth Of Massachusetts
 D.E.Q.E. Environmental Code,
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CROSS-SECTION ON ATTACHED SHEET



OCT 14 1987

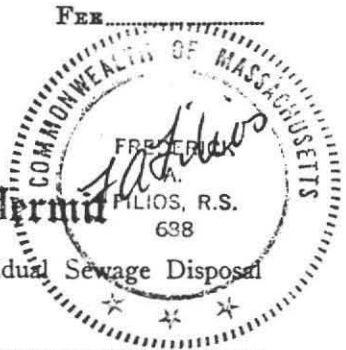
No.

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:

Location - Address: Shays Street, 160 George & Ruth Wade, 156 Alpine Dr., Amherst

Type of Building: Dwelling - No. of Bedrooms: 4, Expansion Attic (), Garbage Grinder (m), Other - Type of Building, No. of persons, Showers (), Cafeteria (), Other fixtures

Design Flow: 55 gallons per person per day, Total daily flow: 440 gallons, Septic Tank Liquid capacity: 1500 gallons, Length: 10.5', Width: 5', Diameter: 5'4", Disposal Trench No.: 2, Width: 2', Total Length: 164', Total leaching area: 124 sq. ft., Seepage Pit No., Diameter, Depth below inlet: 5', Total leaching area: 248 sq. ft., Other Distribution box (✓), Dosing tank (), Percolation Test Results Performed by: John A. Brickett, Date: Jan. 15, 1987, Test Pit No. 1: 4' minutes per inch, Depth of Test Pit: 8', Depth to ground water: None, Test Pit No. 2: minutes per inch, Depth of Test Pit: 8', Depth to ground water: None

Description of Soil: Attached, 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: 10-17-87

Application Approved By: _____ Date: _____

Application Disapproved for the following reasons: _____ Date: _____

Permit No. _____ Issued _____ Date _____

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

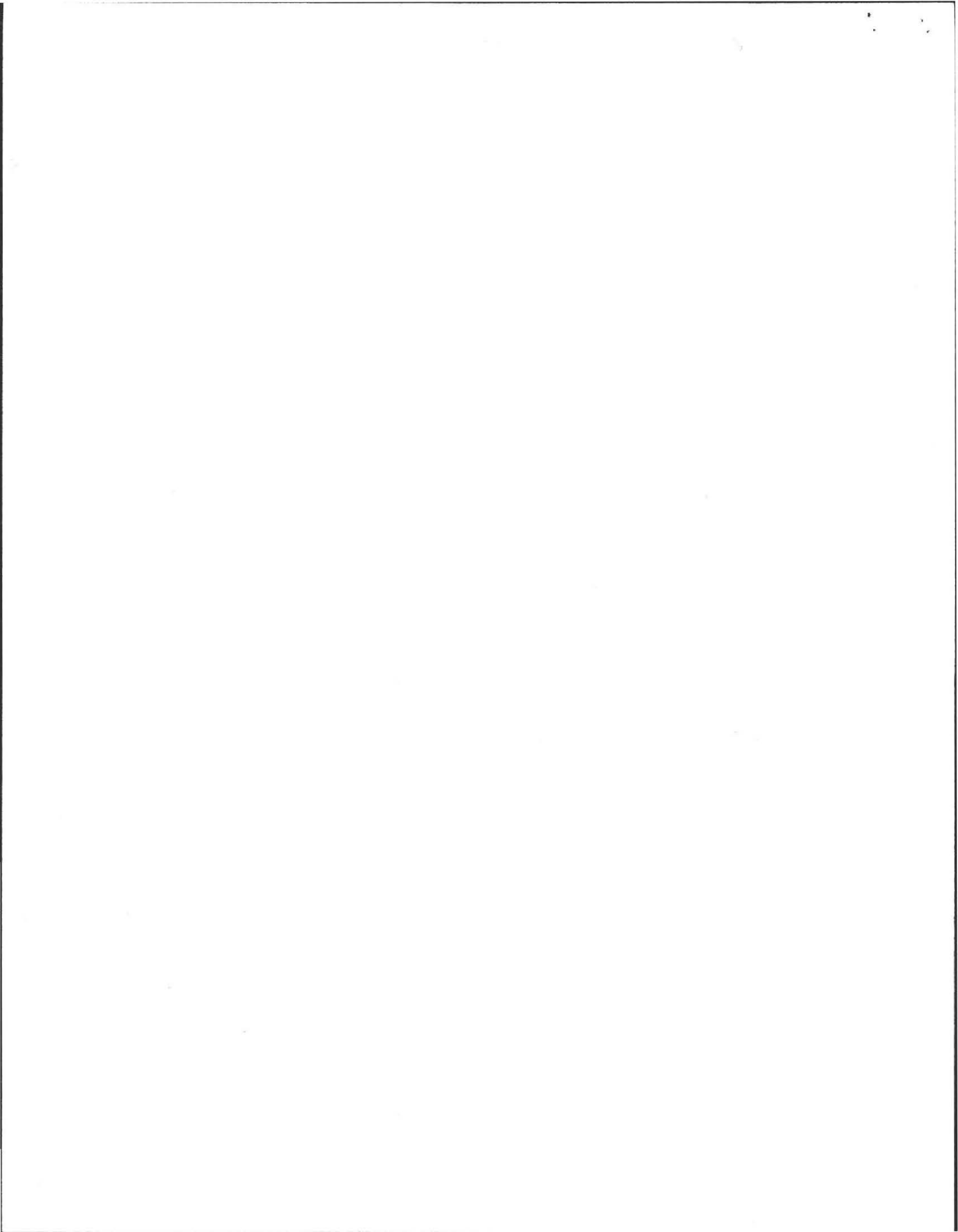
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed (✓) or Repaired () by _____

at 160 Shays Street, 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. _____ dated _____

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

DATE _____ Inspector _____

CHECK OR FILL IN WHERE APPLICABLE



19 Summer St.
Greenfield, Mass.

January 20, 1986

Mr. Howard Kobin
51 Long Plain Road
Leverett, Mass.

Re: Shays St., Amherst, Mass. 01002

Dear Mr. Kobin:

This will certify that on January 15, 1986 I conducted deep soil observation and percolation tests on a parcel of land located on the north side of Shays St., Amherst, Mass.

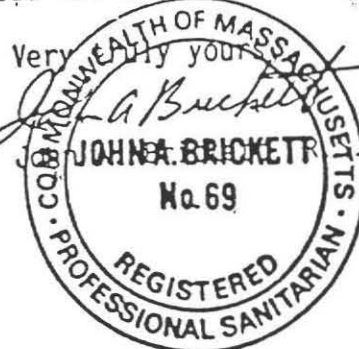
Charles Drake, R.S. was present as an observer for the Town of Amherst.

Copies of soil logs are enclosed.

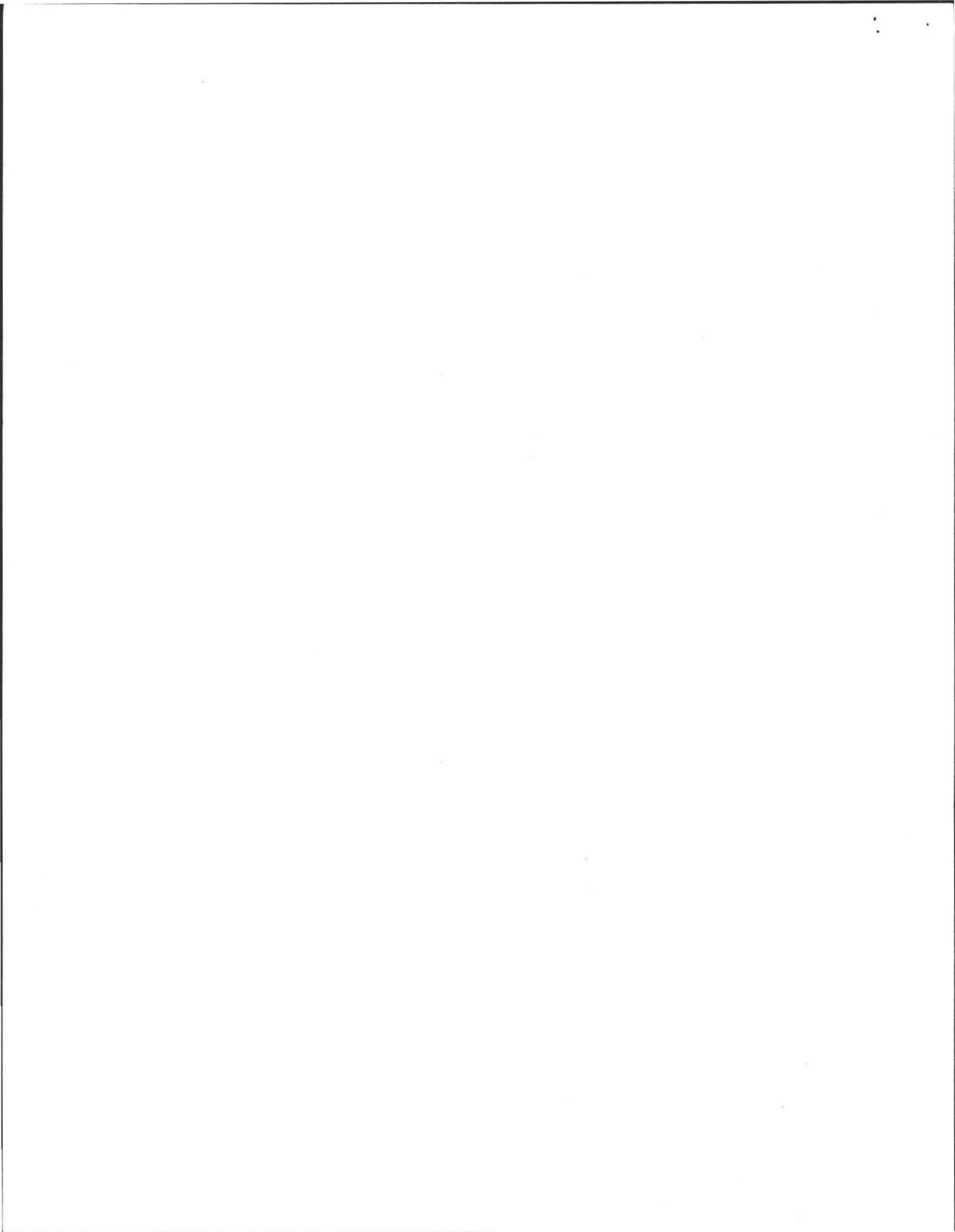
Test Pits #1 and #2 were located 400' north of Shays St. and 250' east of the west property line.

Test Pits #3 and #4 were located 450' north of Shays St. and 300' east of the west property line.

The percolation rate for both areas was 3 mins./inch.



JAB/s



OBSERVATION PITS

TESTED BY: HOWARD ROBIN - 51 LONG PLAIN Rd LEVERETT, MA.

LOCATION: NORTH SIDE SLAYS ST, AMHERST, MA.

DATE: 1/15/86 OBSERVER: C. BRAKE, R.S.

| T.P. #1 | T.P. #2 | T.P. #3 |
|---------------|---------------|---------------|
| SANDY LOAM | SANDY LOAM | SANDY LOAM |
| 60" | 60" | 24" |
| SAND | SAND | SAND |
| 96" | 96" | 96" |

NO WATER

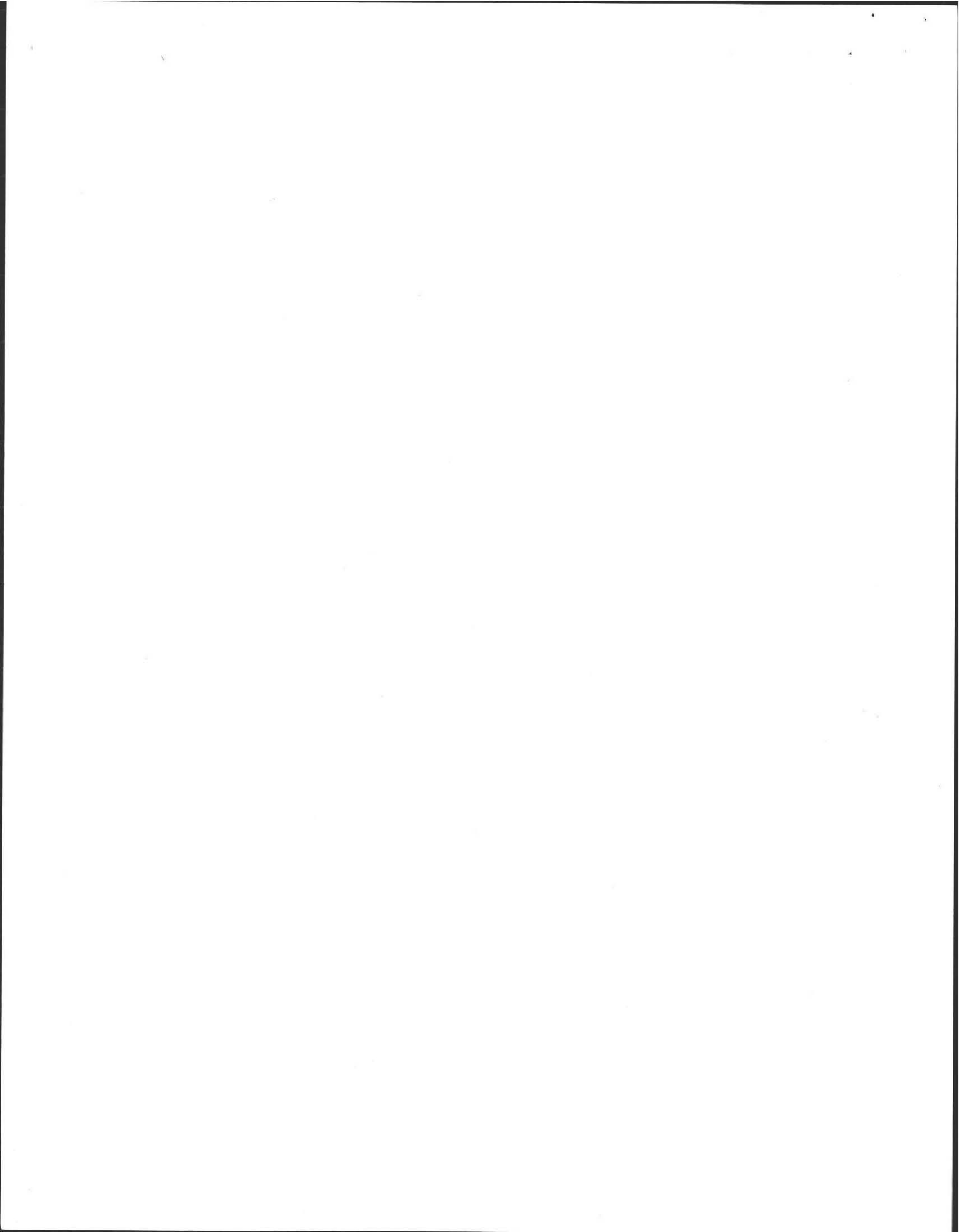
NO WATER

NO WATER

Per @ 60"
1" / 3 MINS

| T.P. #4 | |
|--------------------------|---------------|
| SANDY LOAM | SANDY LOAM |
| 24" | SANDY LOAM |
| SAND | SANDY LOAM |
| Per @ 48" 1" / 3 MINS | SANDY LOAM |
| 96" | SANDY LOAM |





CROSS-SECTION OF TRENCHES AT A-A'

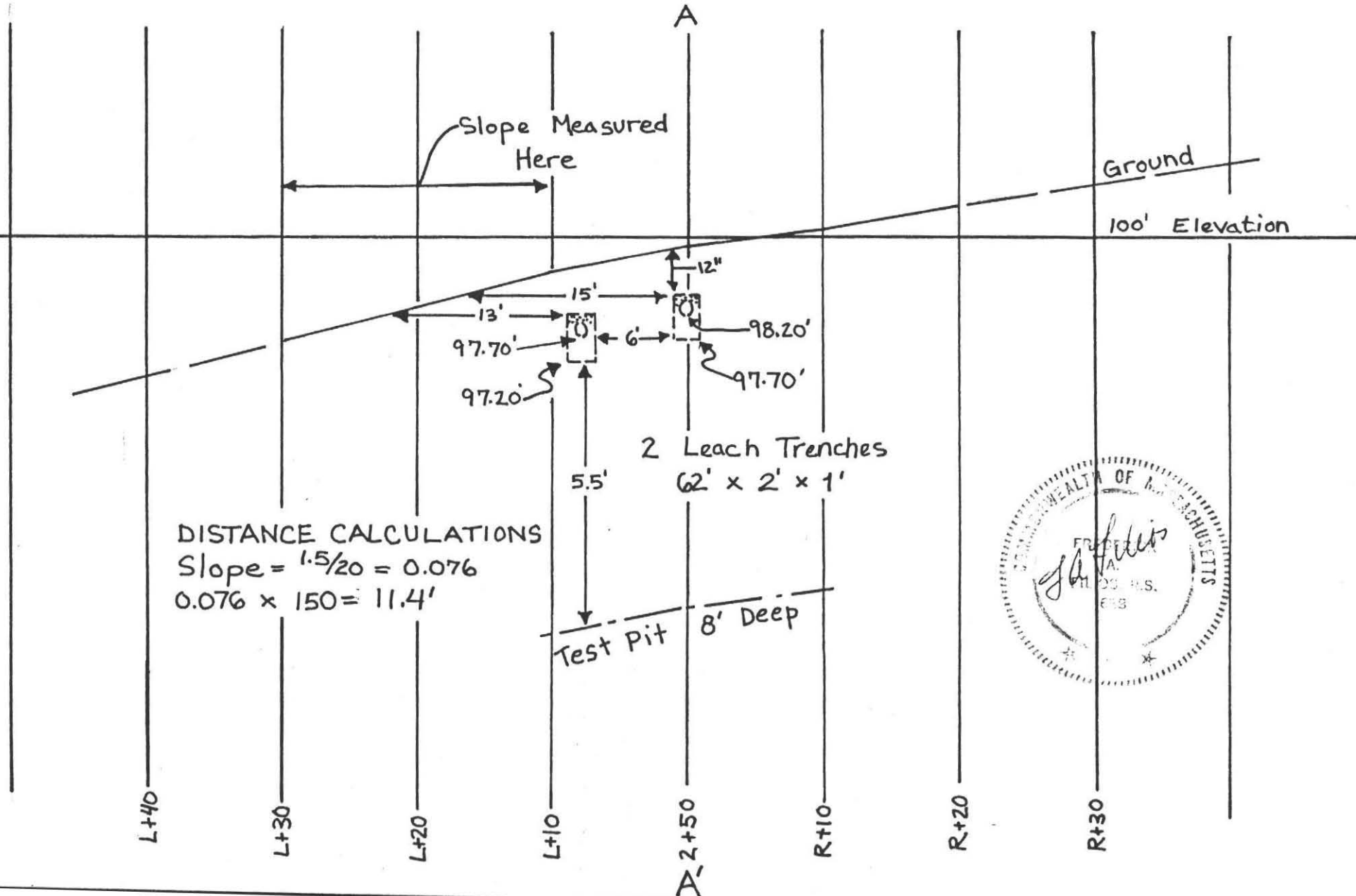
For: George & Ruth Wade
 156 Alpine Dr., Amherst, MA
 Site: 160 Shays St., Amherst

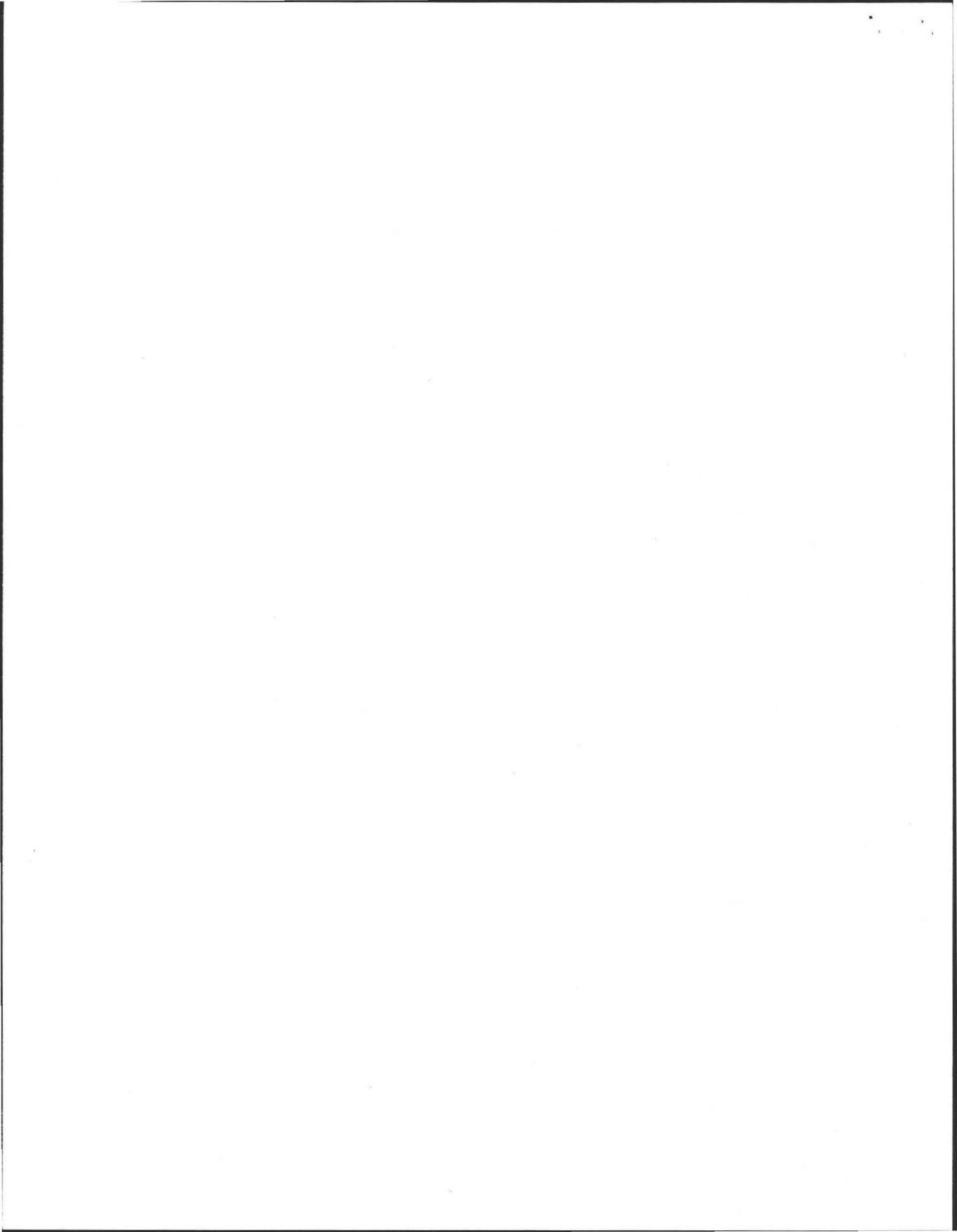
FILIOS ENTERPRISES, INC.

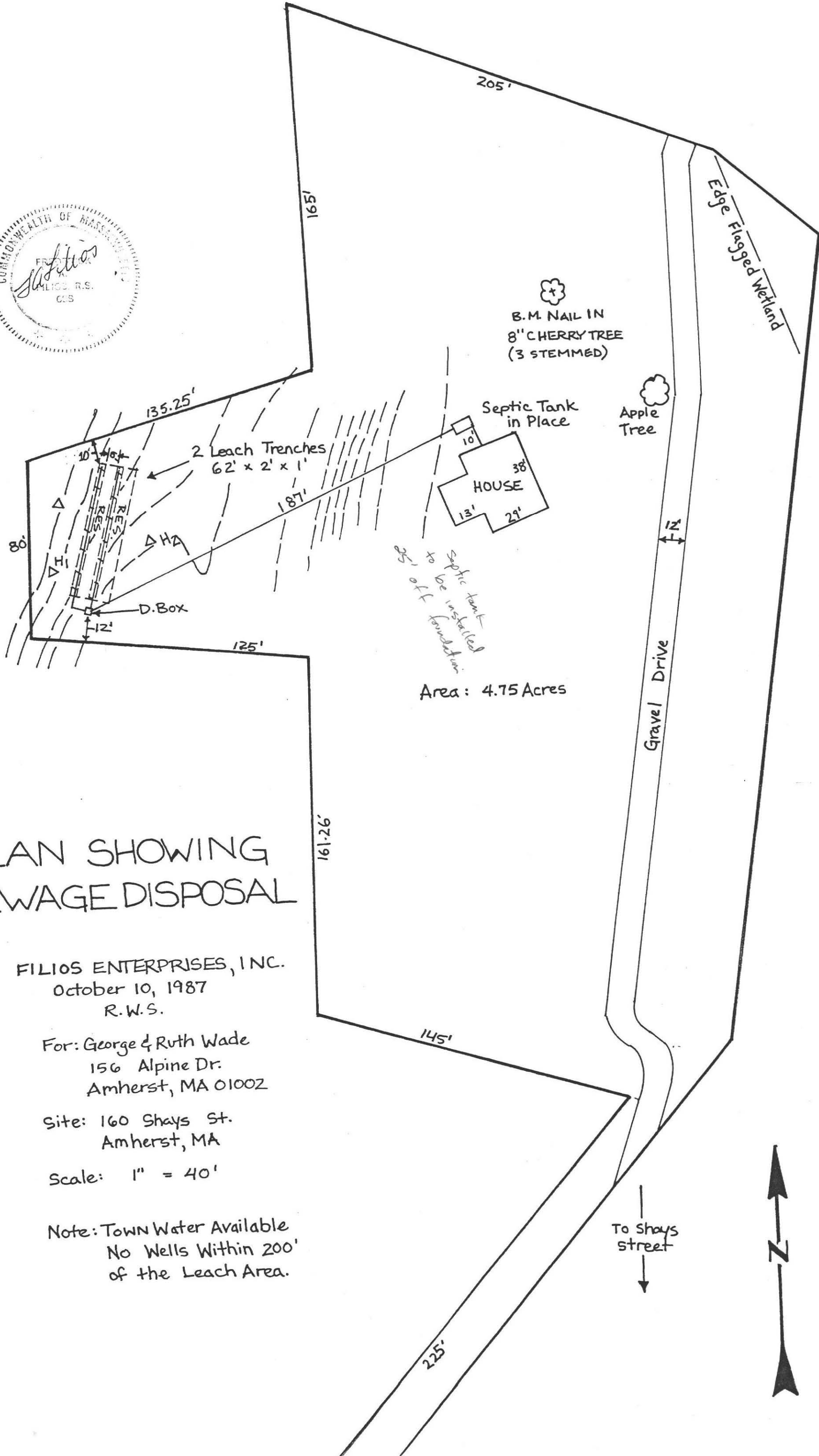
October 8, 1987 R.W.S.

Scale: Horizontal: 1 = 10'

Vertical: 1 = 3'







PLAN SHOWING SEWAGE DISPOSAL

FILIOS ENTERPRISES, INC.
October 10, 1987
R.W.S.

For: George & Ruth Wade
156 Alpine Dr.
Amherst, MA 01002

Site: 160 Shays St.
Amherst, MA

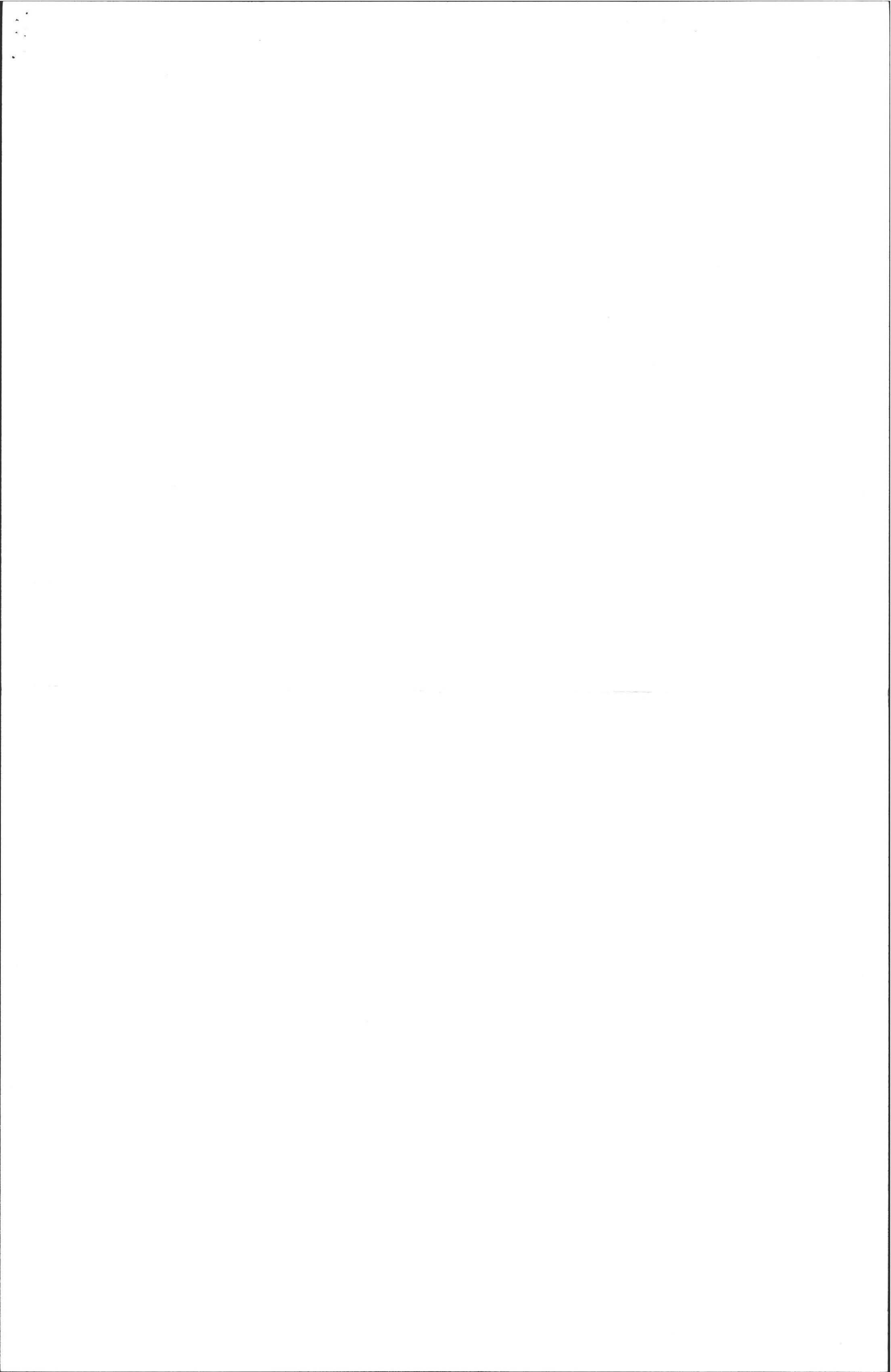
Scale: 1" = 40'

Note: TOWN Water Available
No Wells Within 200'
of the Leach Area.

Area: 4.75 Acres

To Shays street



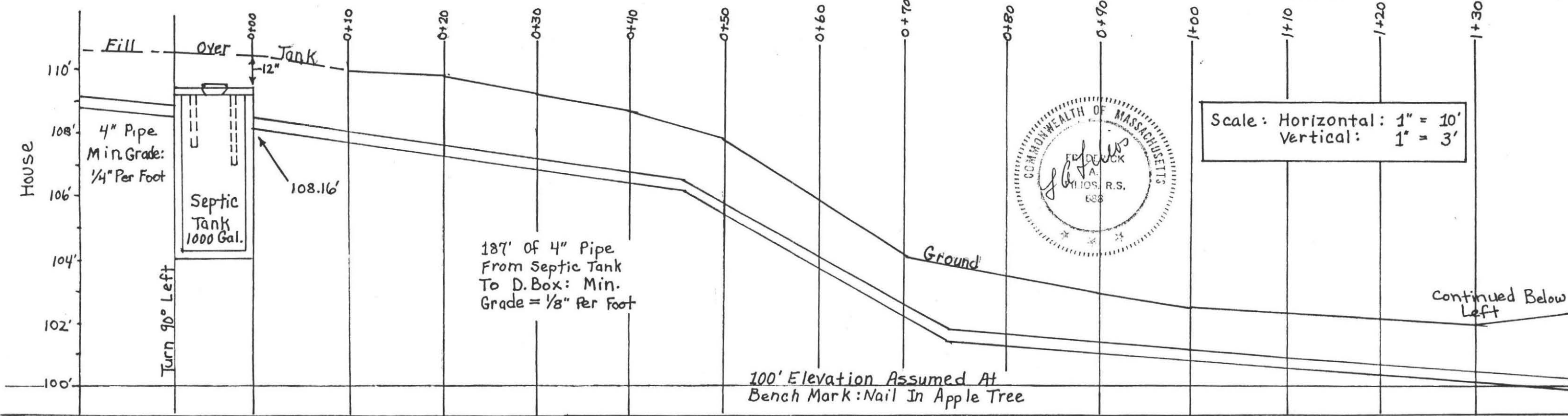


PROFILE OF SEPTIC TANK

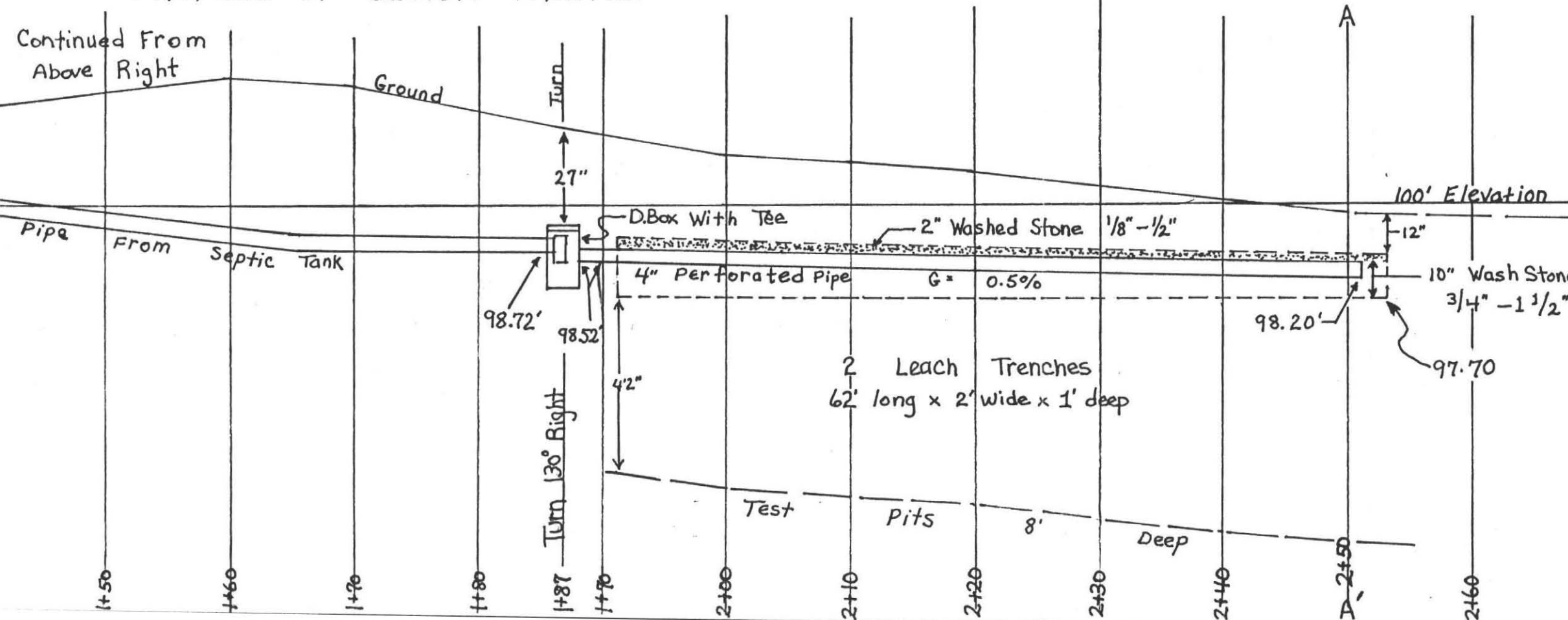
For: George & Ruth Wade
156 Alpine Drive
Amherst, MA 01002

Site: 160 Shays St.
Amherst, MA.

FILIOS ENTERPRISES, INC.
October 8, 1987
R.W.S.



PROFILE OF LEACH TRENCH



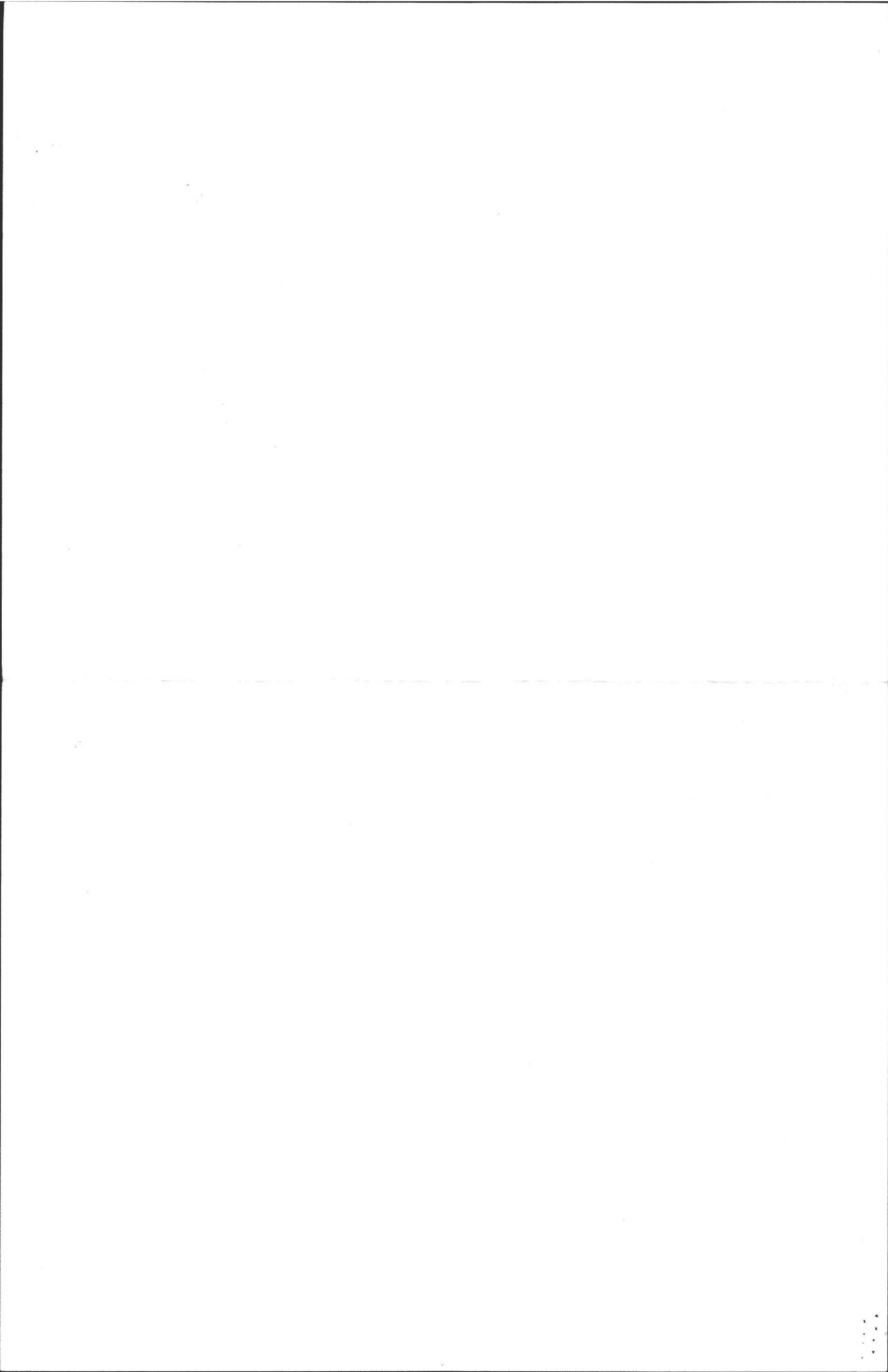
CALCULATIONS

Design Flow: 4 Bds @ 110 = 440 Gal.s
 Perc Rate: 4 min.s/Inch
 2 Trenches: 62' x 2' x 0.5' below inlet
 Sides: (62' x 1') 2 = 124 x 2 = 248 Gal.s
 Bottom: (62' x 2') 2 = 248 x .83 = 205 Gal.s
 Total Available Daily Flow = 453 Gal.s

SPECIFICATIONS

All Materials And Construction
 Shall be In Accordance With
 Commonwealth Of Massachusetts
 D.E.Q.E. Environmental Code,
 Title 5.

CROSS-SECTION ON ATTACHED SHEET



156 Alpine Drive
Amherst, MA 01002

April 15, 1986

James G. Collins
67 Butterfield Terrace
Amherst, MA 01002

Dear Jim:

This letter is to inform you officially that we are now applying to the Amherst Board of Health for a variance in order to install an individual sewage disposal system on our building lot on Shays Street which abuts your property. There are two bases for our requesting a variance: a) that requiring us to pump our sewage to the town sewer system would constitute a manifest injustice and b) that an individual sewage disposal system would provide comparable or better environmental protection.

Connecting to the town sewer system would constitute an injustice because of the exorbitant price and inferior quality of ejector pump systems. An ejector pump system would cost in excess of \$8,800 versus \$2,200 for a septic system on our lot. In addition, engineers and plumbers who have seen our house site as well as our present neighbors who have ejector pump systems have all advised us that we should avoid an ejector pump system if we are able to.

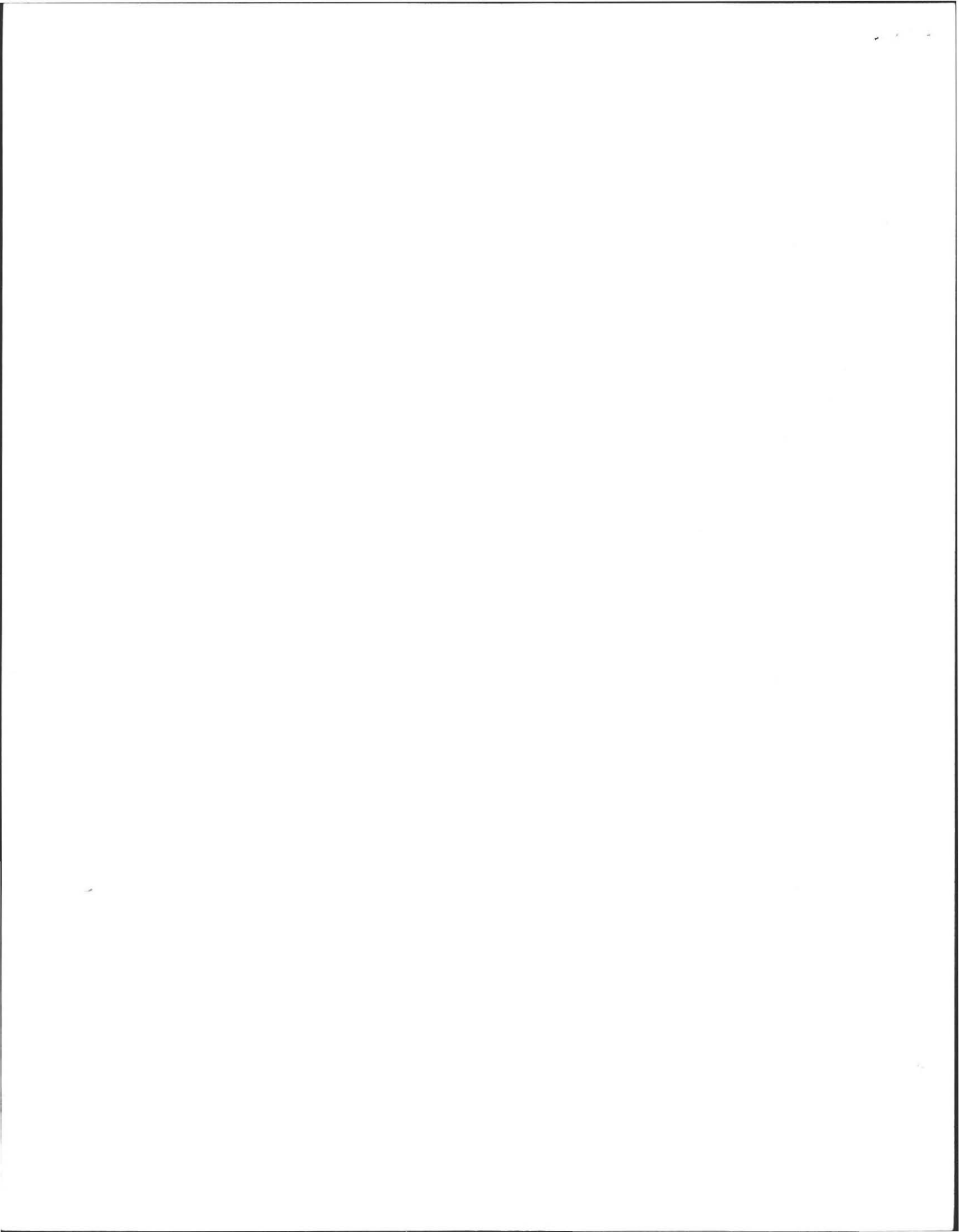
We feel that a properly designed septic system will provide appropriate environmental protection. As you know, our building lot contains a large sewage disposal area, which Tom Trotman generously ceded to us for this purpose. This will continue to be an area of low population density. The entire 13.2-acre parcel which we subdivided with you and Tom Trotman may have only two single-family dwellings on it. Thus, there could be at most two septic systems--yours and ours (should we both be permitted to do so). In addition, the Trotman-Collins-Wade parcel is largely bounded by undeveloped land, much of it owned by Amherst College and unlikely to be developed.

We wish you the best of luck in identifying an appropriate sewage disposal area and in solving the sewage disposal problems with your own house.

Cordially,



Ruth K. Wade and George N. Wade



156 Alpine Drive
Amherst, MA 01002

April 15, 1986

Thomas H. Trotman
158 Shays Street
Amherst, MA 01002

Dear Tom:


This letter is to inform you officially that we are now applying to the Amherst Board of Health for a variance in order to install an individual sewage disposal system on our building lot on Shays Street which abuts your property. There are two bases for our requesting a variance: a) that requiring us to pump our sewage to the town sewer system would constitute a manifest injustice and b) that an individual sewage disposal system would provide comparable or better environmental protection.

Connecting to the town sewer system would constitute an injustice because of the exorbitant price and inferior quality of ejector pump systems. An ejector pump system would cost in excess of \$8,800 versus \$2,200 for a septic system. In addition, engineers and plumbers who have seen our house site as well as our present neighbors who have ejector pump systems have all advised us that we should avoid an ejector pump system if we are able to.

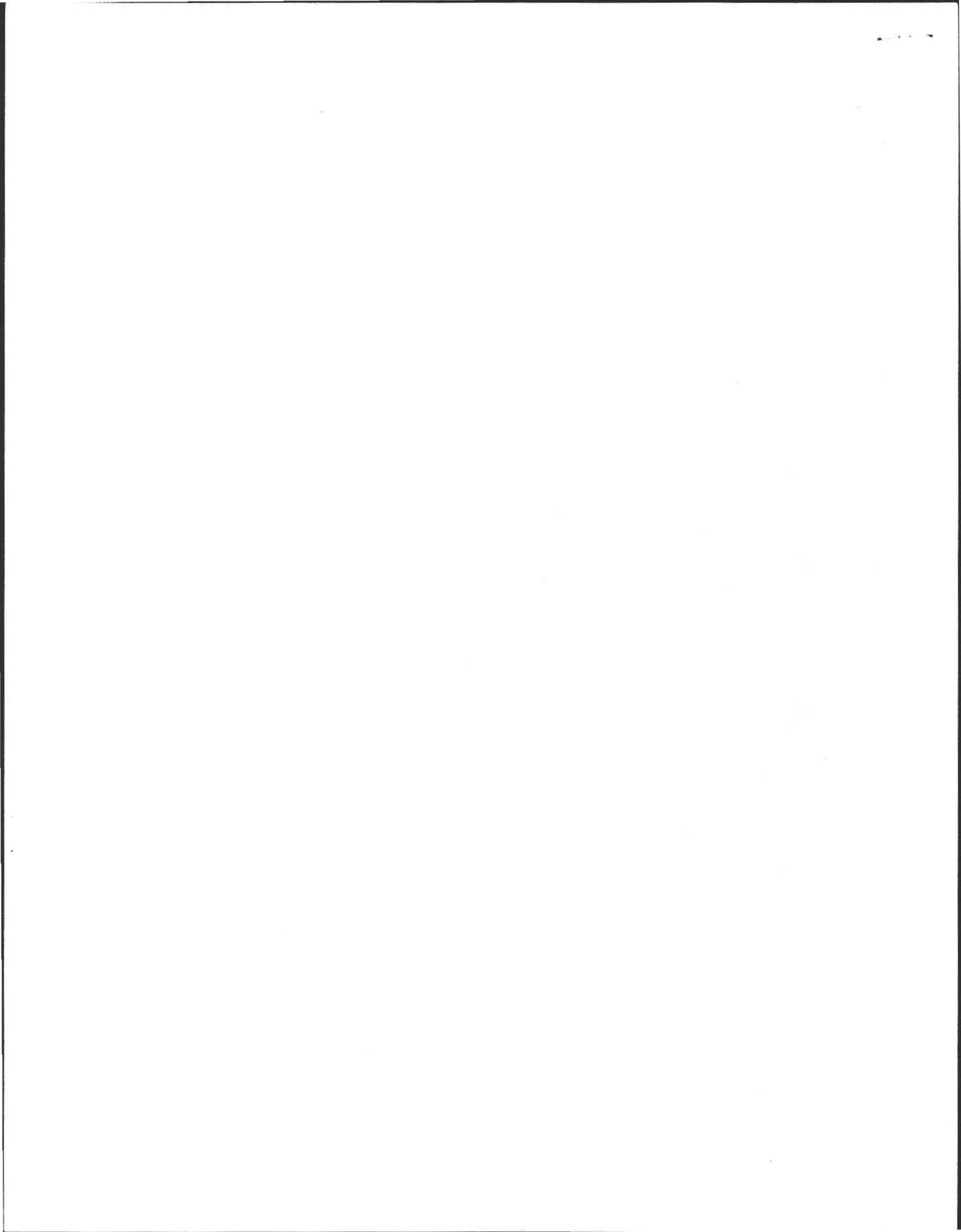
We feel that a properly designed septic system will provide appropriate environmental protection. As you know, our building lot contains a large sewage disposal area, which you generously ceded to us for this purpose. This will continue to be an area of low population density. The entire 13.2-acre parcel which we subdivided with you and Jim Collins may have only two single-family dwellings on it. Thus, there could be at most two septic systems--ours and Jim's (should we both be permitted to do so). In addition, the Trotman-Collins-Wade parcel is largely bounded by undeveloped land, much of it owned by Amherst College and unlikely to be developed.

We appreciate your cooperation and encouragement during this entire process.

Cordially,



Ruth K. Wade and George N. Wade





OFFICE OF
THE REGIONAL ENGINEER

The Commonwealth of Massachusetts

Water Resources Commission
Division of Water Pollution Control
Western Region
1 Draper Hall, University of Massachusetts
Amherst, Mass. 01003.

December 8, 1982

Amherst Health Department
Boltwood Walk
Amherst, MA 01002

Re: Amherst-Connecticut
Title 5

Attention: Charles Drake

Gentlemen:

This letter is in regard to the subsurface sewage disposal variance requested for the Ross Building Corporation property, located on West Street, Route 116, Amherst.

It is not possible for this office to properly review the plan received November 19, 1982 regarding the aforementioned subsurface sewage disposal system as the information is incomplete. Additional information required for this plan review is noted below.

- 1) A cross sectional plan of the subsurface disposal system including elevation of the upper and lower limits of the leaching field. Distribution pipe invert elevations must be included.
- 2) A soil log of two, 10 feet test pits, should be included with the plan view indicating the location of each, identifying proximity to leachfield system.
- 3) Existing and proposed contours must be included.
- 4) Dimensions of reserve area
- 5) Maximum groundwater elevation should be included if feasible.
- 6) Location of any streams, surface and subsurface drains and wetlands within 100 feet of the sewage disposal area
- 7) Distances and locations of existing or proposed water supplies within 200 feet of sewage disposal system
- 8) All elevations should reference a common bench mark.

If you have any questions regarding this matter feel free to contact this office.

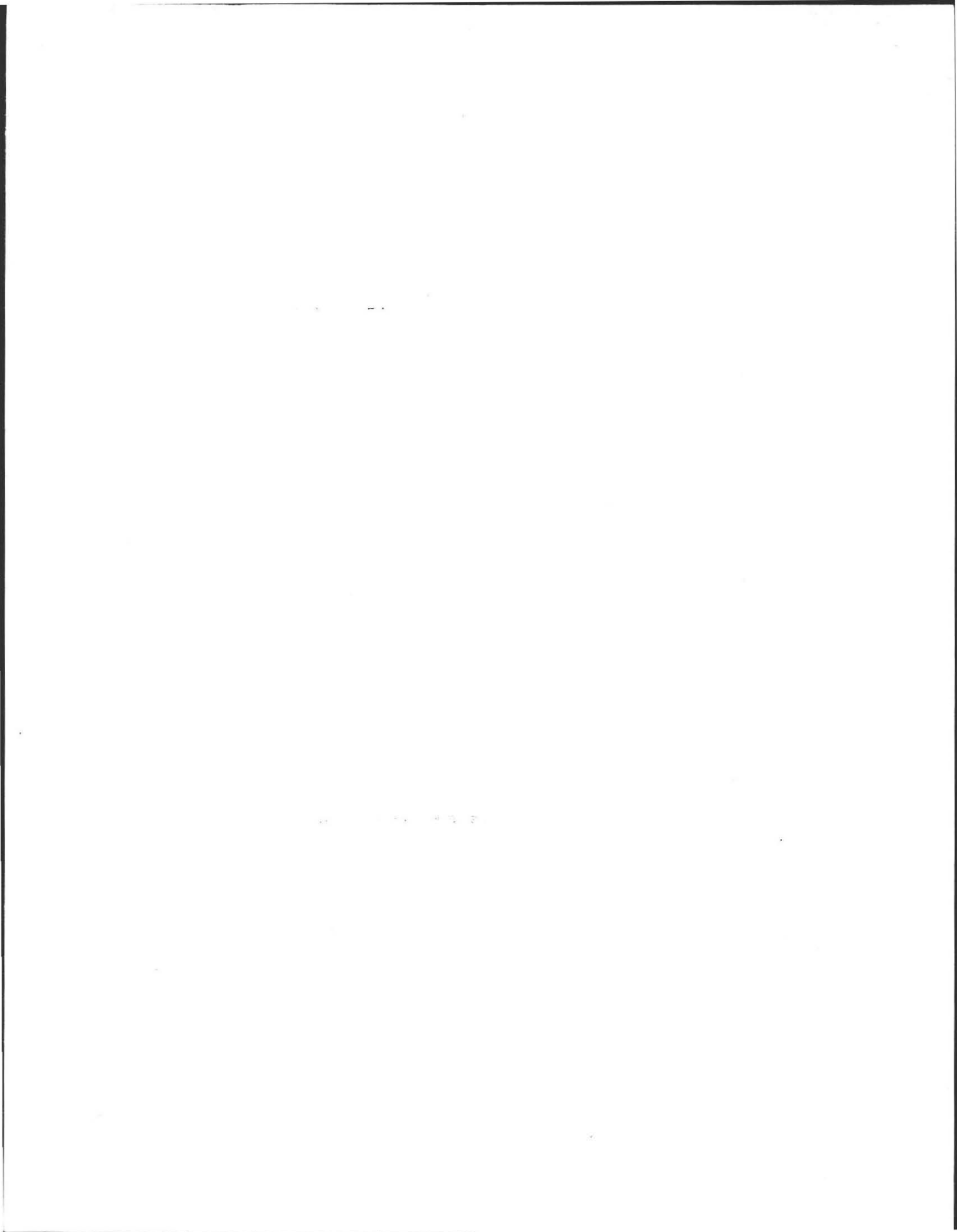
Very truly yours,

Roland J. Dupuis

Roland J. Dupuis, P.E.
Deputy Regional Environmental Engineer

RJD/TMcE/trc
cc: Gilbert Joly

RUTH:
THIS IS
9 COPY
OF
CORRESPONDENCE
REGARDING
A
VARIANCE
ISSUED

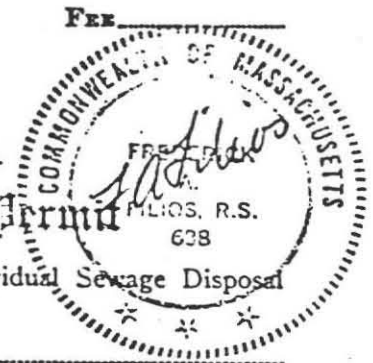


No. _____

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:

Location - Address: Shays Street 160
Owner: George & Ruth Wade 156 Alpine Dr, Amherst
Address: _____
Installer: _____ Address: _____

Type of Building: _____
Dwelling - No. of Bedrooms: 4 Expansion Attic () Garbage Grinder (no)
Other - Type of Building: _____ No. of persons: _____ Showers () - Cafeteria ()
Other fixtures: _____

Design Flow: 55 gallons per person per day. Total daily flow: 440 gallons.
Septic Tank ✓ Liquid capacity: 1500 gallons Length: 10.5' Width: 5' Diameter: _____ Depth: 5'4"
Disposal Trench ✓ No. 2 Width: 2' Total Length: 16.4' Total leaching area: 124 sq. ft. Sides
Seepage Pit No. _____ Diameter: _____ Depth below inlet: 5' Total leaching area: 248 sq. ft. Bottom

Other Distribution box (✓) Dosing tank ()
Percolation Test Results Performed by: John A. Brickett Date: Jan. 15, 1987
Test Pit No. 1: 4' minutes per inch Depth of Test Pit: 8' Depth to ground water: None
Test Pit No. 2: _____ minutes per inch Depth of Test Pit: 8' Depth to ground water: None

Description of Soil: Attached

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: _____ Date: _____
Application Approved By: _____ Date: _____
Application Disapproved for the following reasons: _____ Date: _____

Permit No. _____ Issued _____ Date: _____

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH

Town OF Amherst

Certificate of Compliance

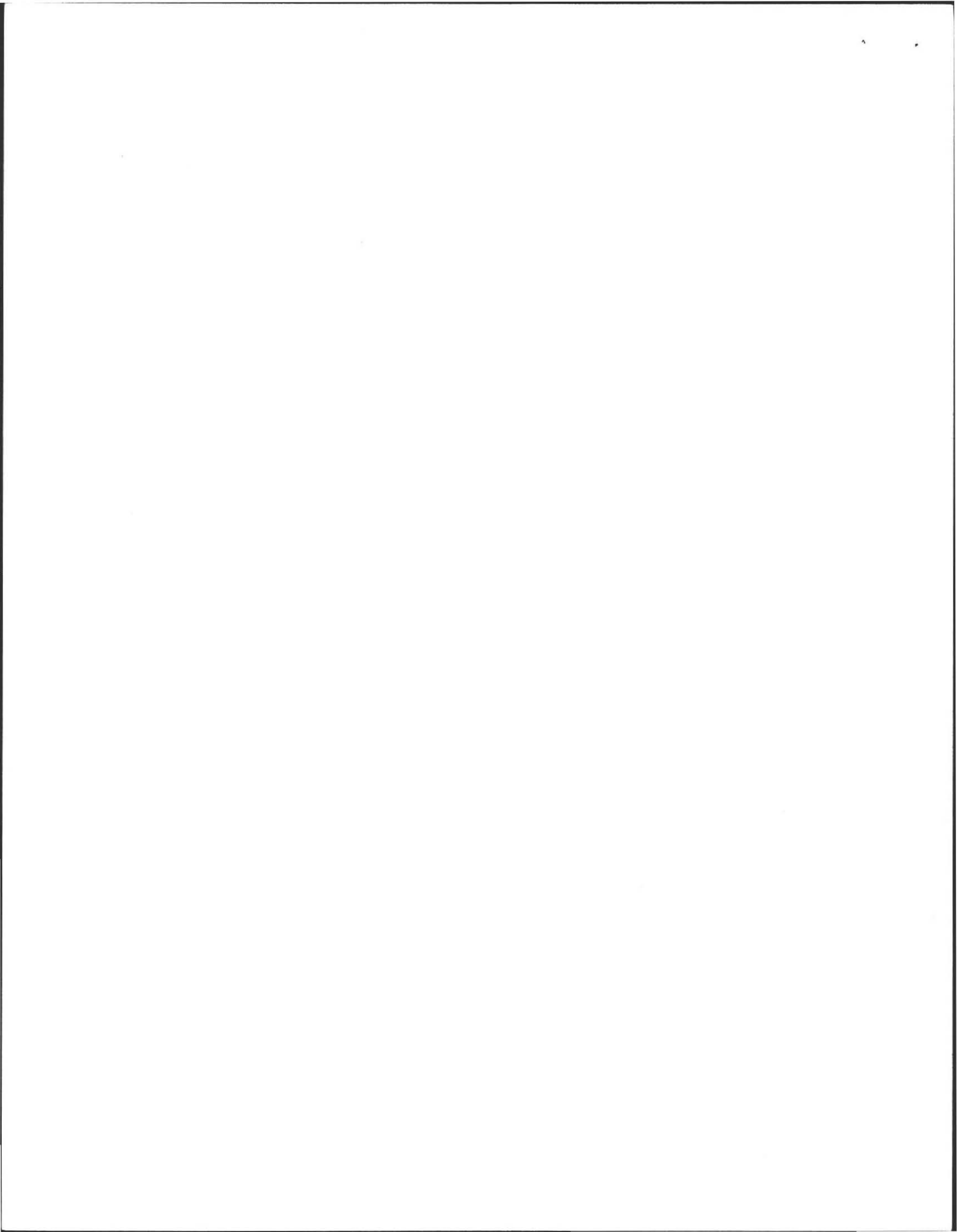
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed (✓) or Repaired () by _____

at 160 Shays Street 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. _____ dated _____

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

DATE: _____ Inspector: _____

CHECK OR FILL IN WHERE APPLICABLE

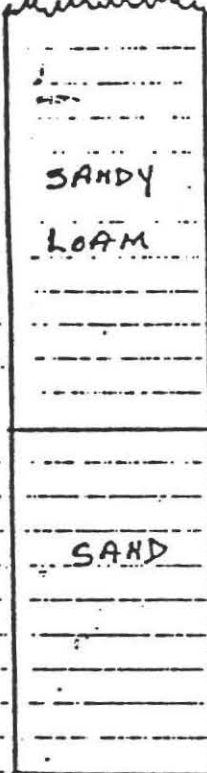


TESTED BY: HOWARD ROBIN - 51 LONG PLAIN Rd LEVERETT, MA.

LOCATION: NORTH SIDE SLAYS ST, AMHERST, MA.

DATE: 1/15/86 OBSERVER: C. CRAKE, R.S.

T.P. #1

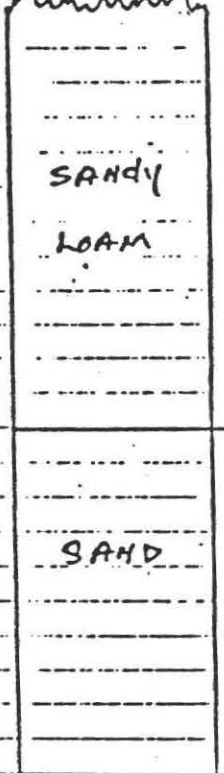


60"

96"

NO WATER

T.P. #2

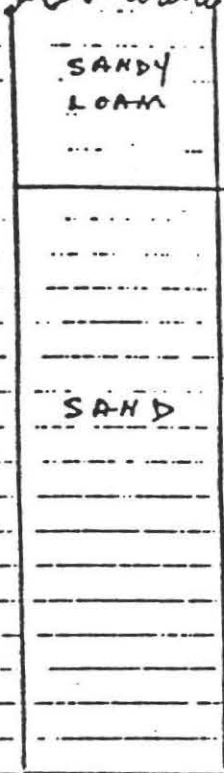


60"

96"

NO WATER

T.P. #3



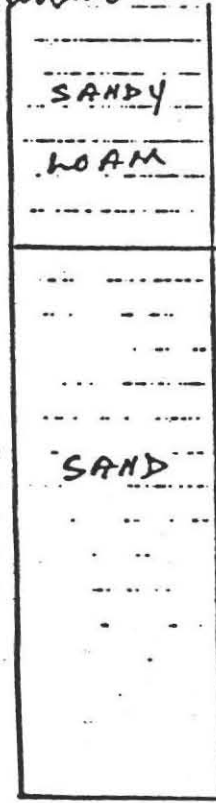
24"

96"

NO WATER

Perc @ 60"
1" / 3 MINS

T.P. #4



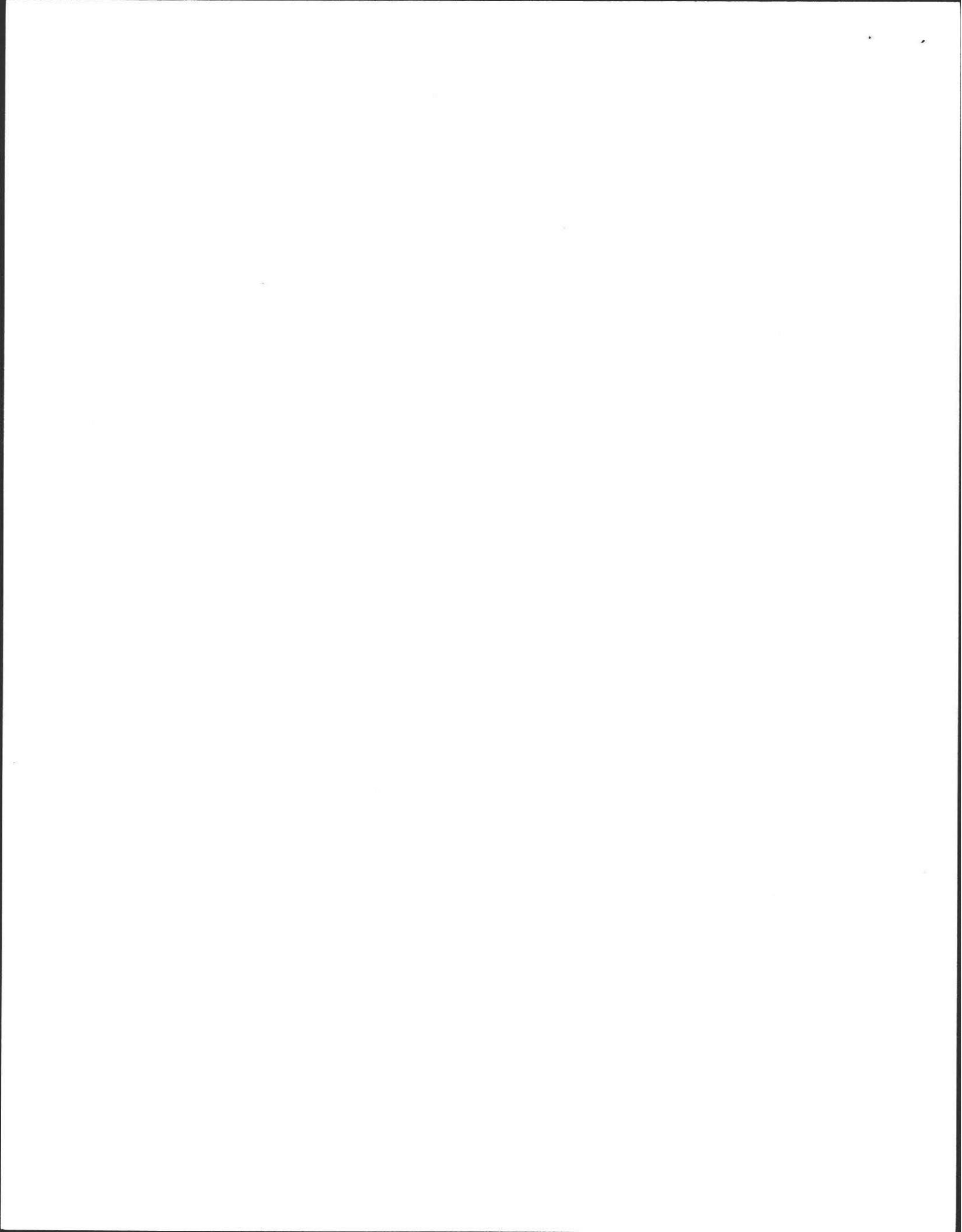
24"

Perc 48"
1" / 3 MINS

96"

NO WATER

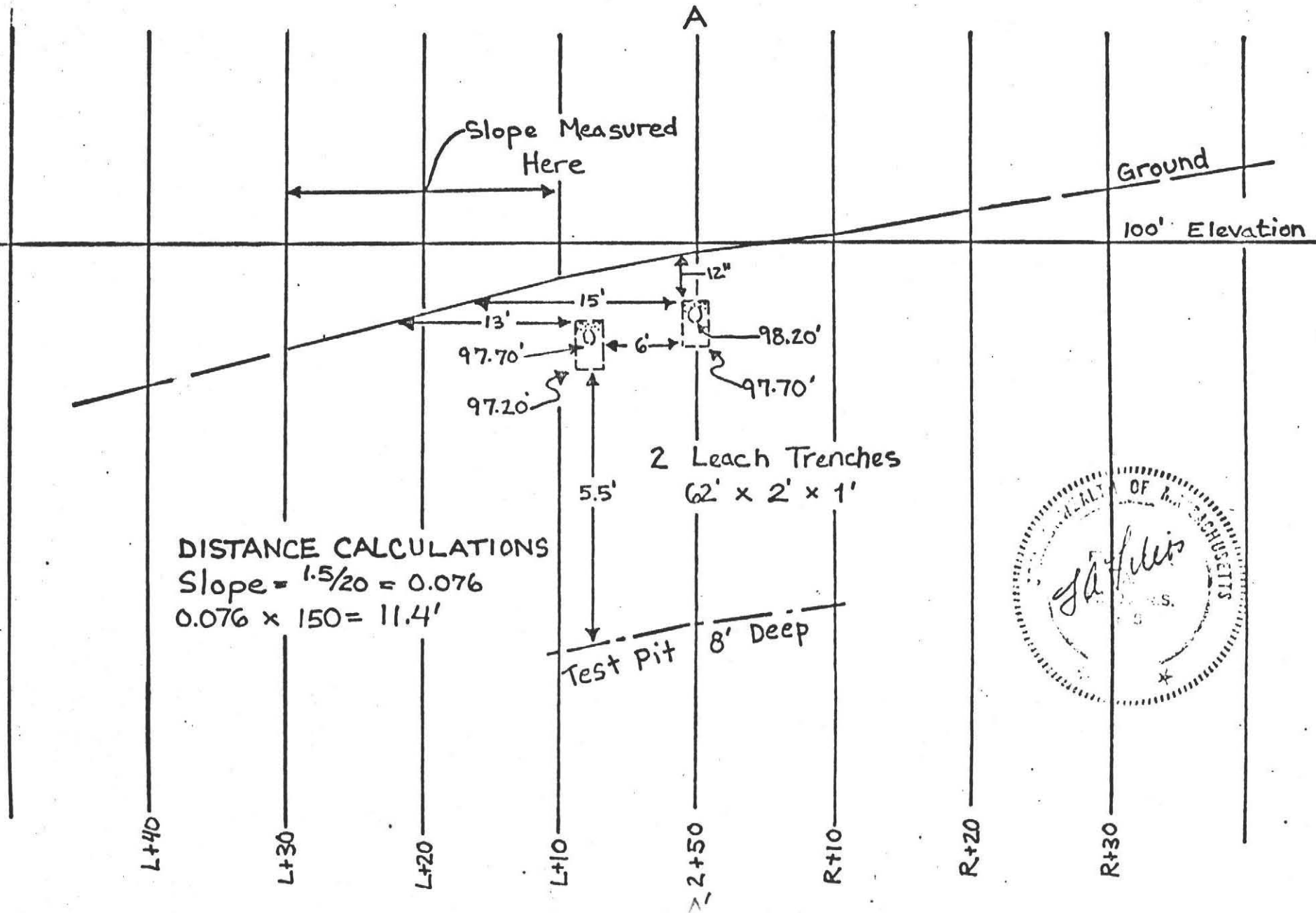




CROSS-SECTION OF TRENCHES AT A-A'

For: George & Ruth Wade
 156 Alpine Dr., Amherst, MA
 Site: 160 Shays St., Amherst

FILIOS ENTERPRISES, INC.
 October 8, 1987 R.W.S.
 Scale: Horizontal: 1 = 10'
 Vertical: 1 = 3'

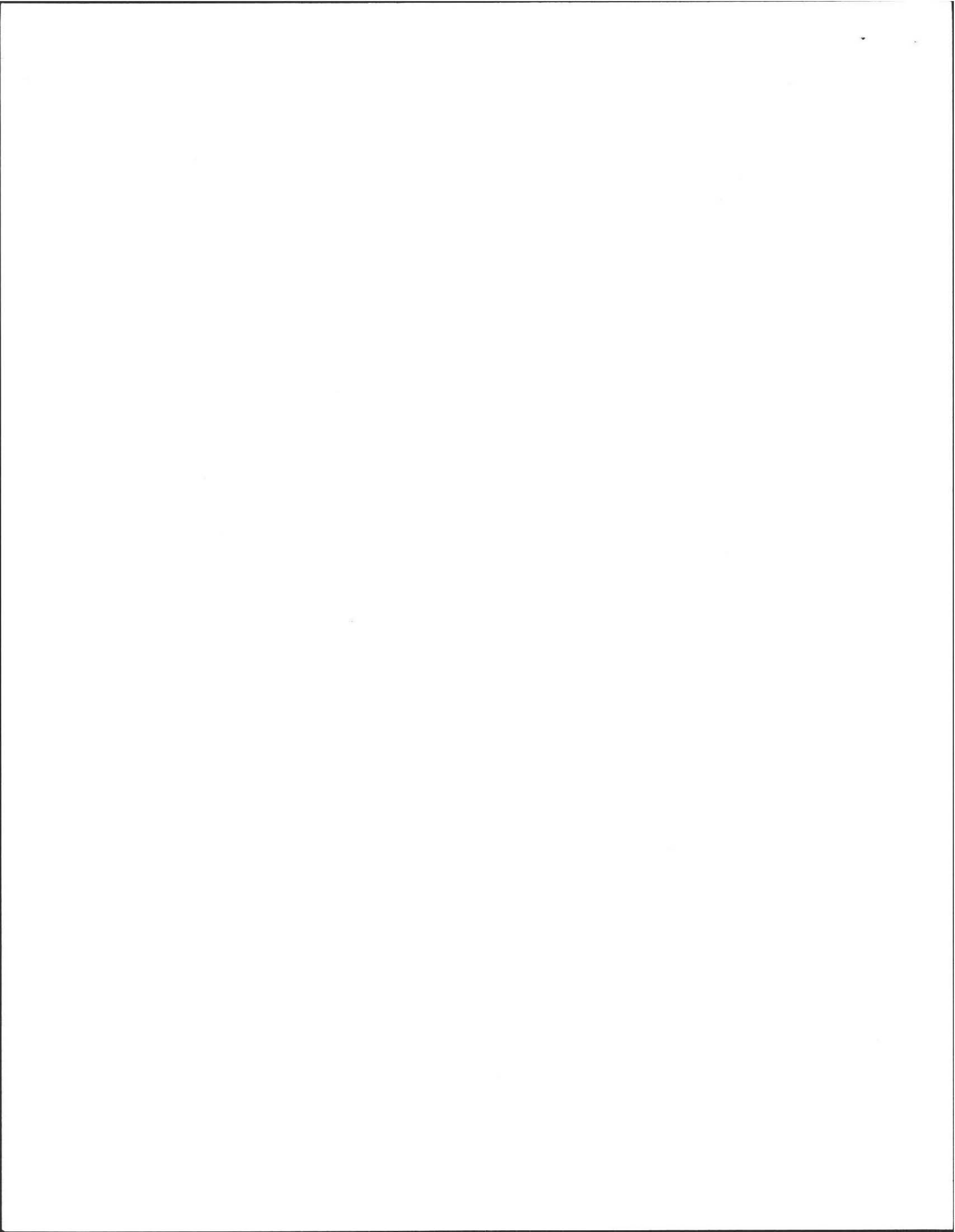


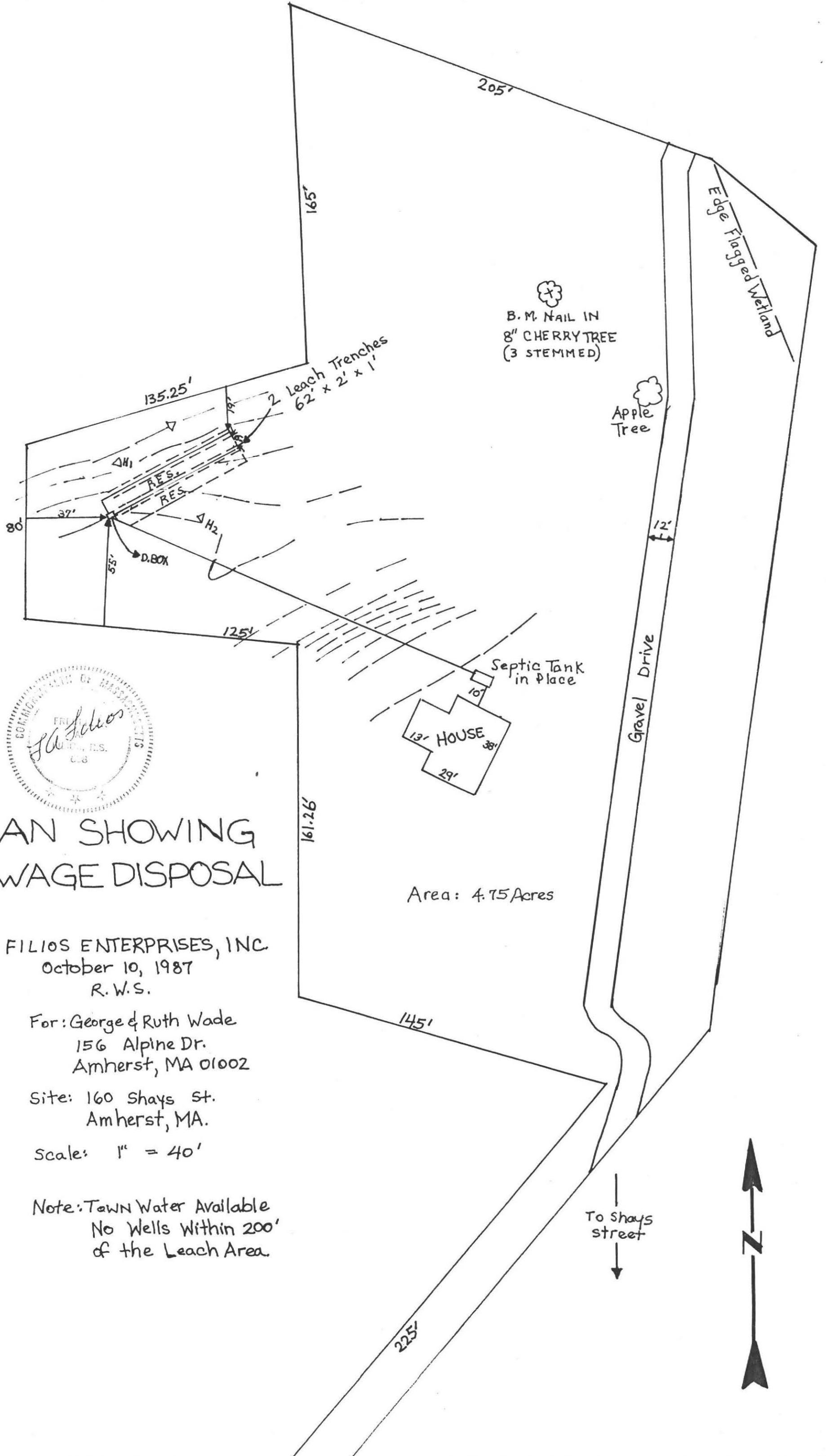
DISTANCE CALCULATIONS
 Slope = $\frac{1.5}{20} = 0.076$
 $0.076 \times 150 = 11.4'$

2 Leach Trenches
 6' x 2' x 1'

Test Pit 8' Deep







PLAN SHOWING SEWAGE DISPOSAL

FILIOS ENTERPRISES, INC.
 October 10, 1987
 R.W.S.

For: George & Ruth Wade
 156 Alpine Dr.
 Amherst, MA 01002

Site: 160 Shays St.
 Amherst, MA.

Scale: 1" = 40'

Note: TOWN Water Available
 No Wells Within 200'
 of the Leach Area.

Septic Tank
 in Place

HOUSE
 13' x 29'

B.M. NAIL IN
 8" CHERRY TREE
 (3 STEMMED)

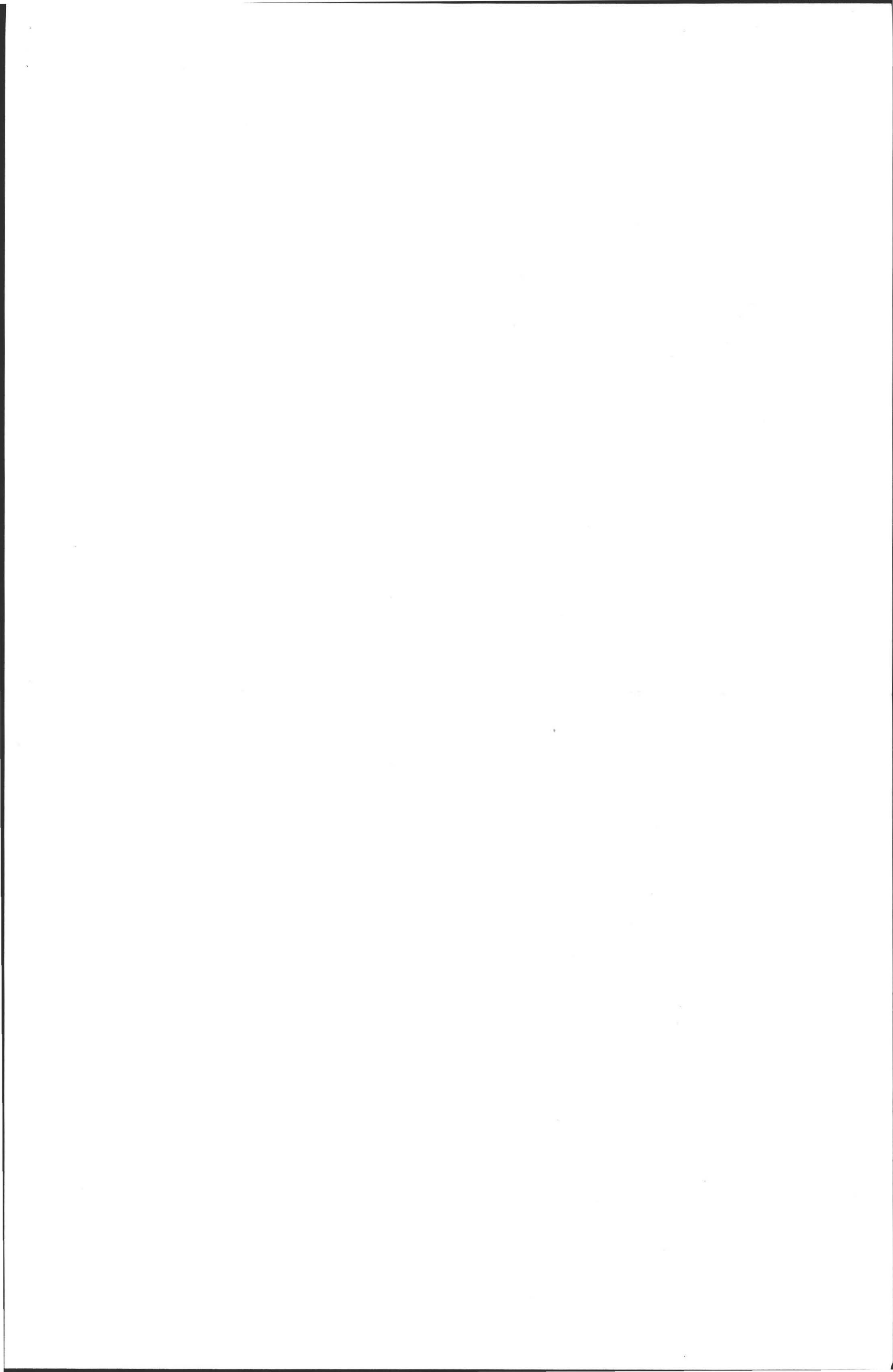
Apple Tree

Edge Flagged Wetland

Gravel Drive

To Shays street



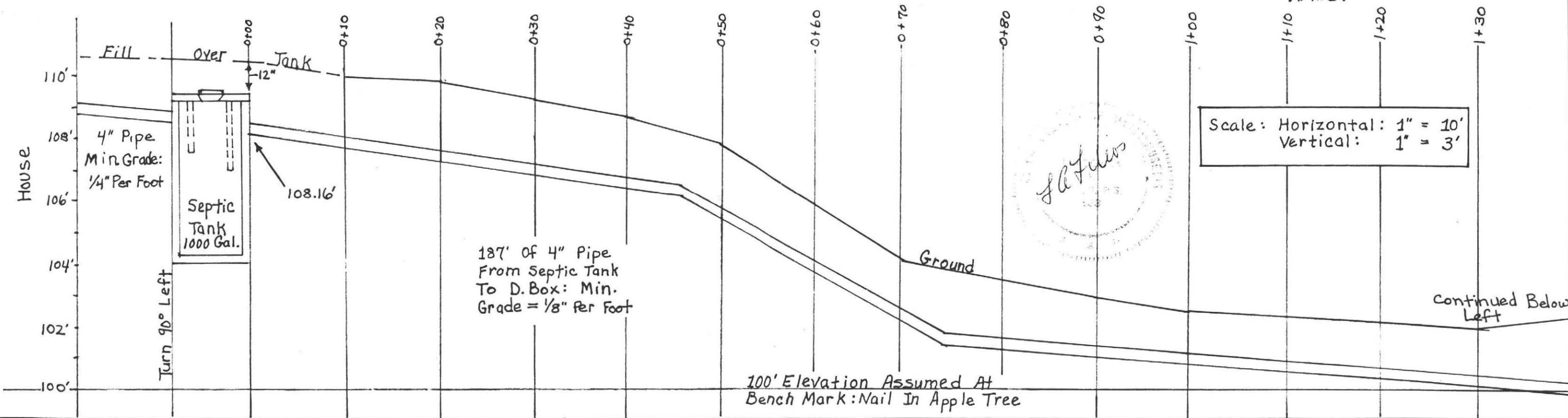


PROFILE OF SEPTIC TANK

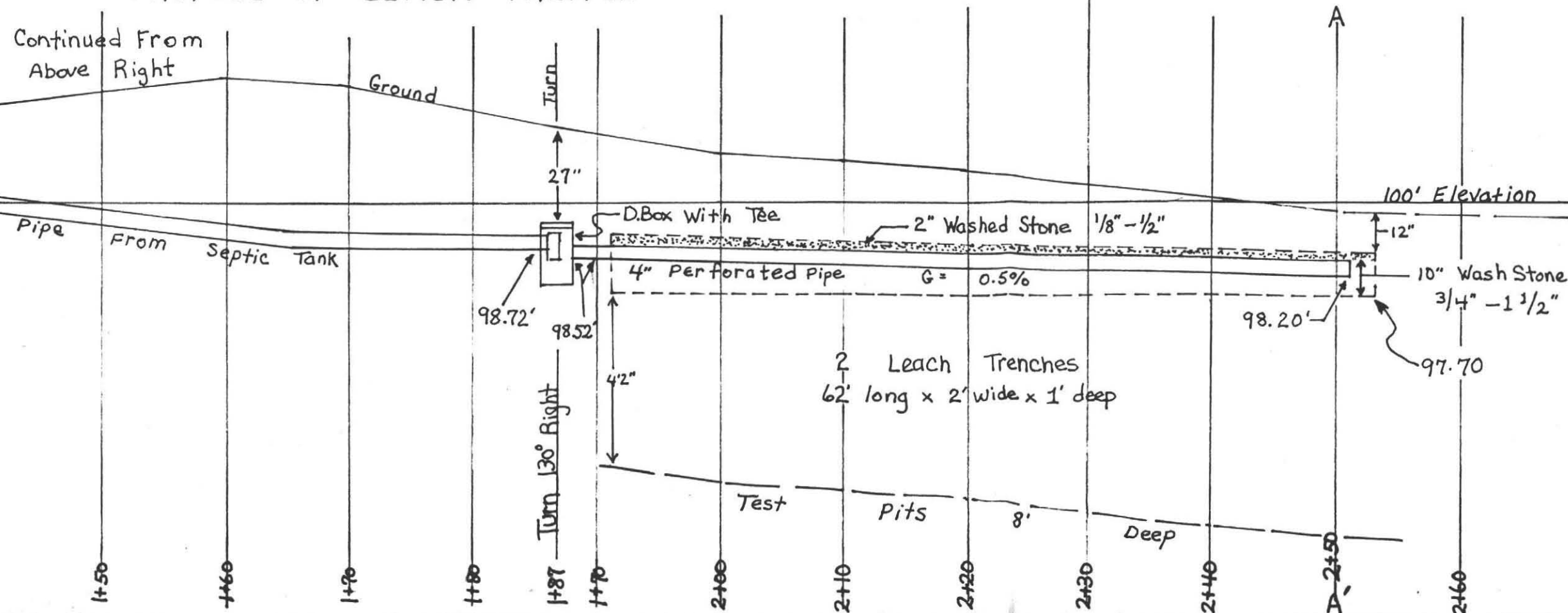
For: George & Ruth Wade
156 Alpine Drive
Amherst, MA 01002

Site: 160 Shays St.
Amherst, MA.

FILIOS ENTERPRISES, INC.
October 8, 1987
R.W.S.



PROFILE OF LEACH TRENCH



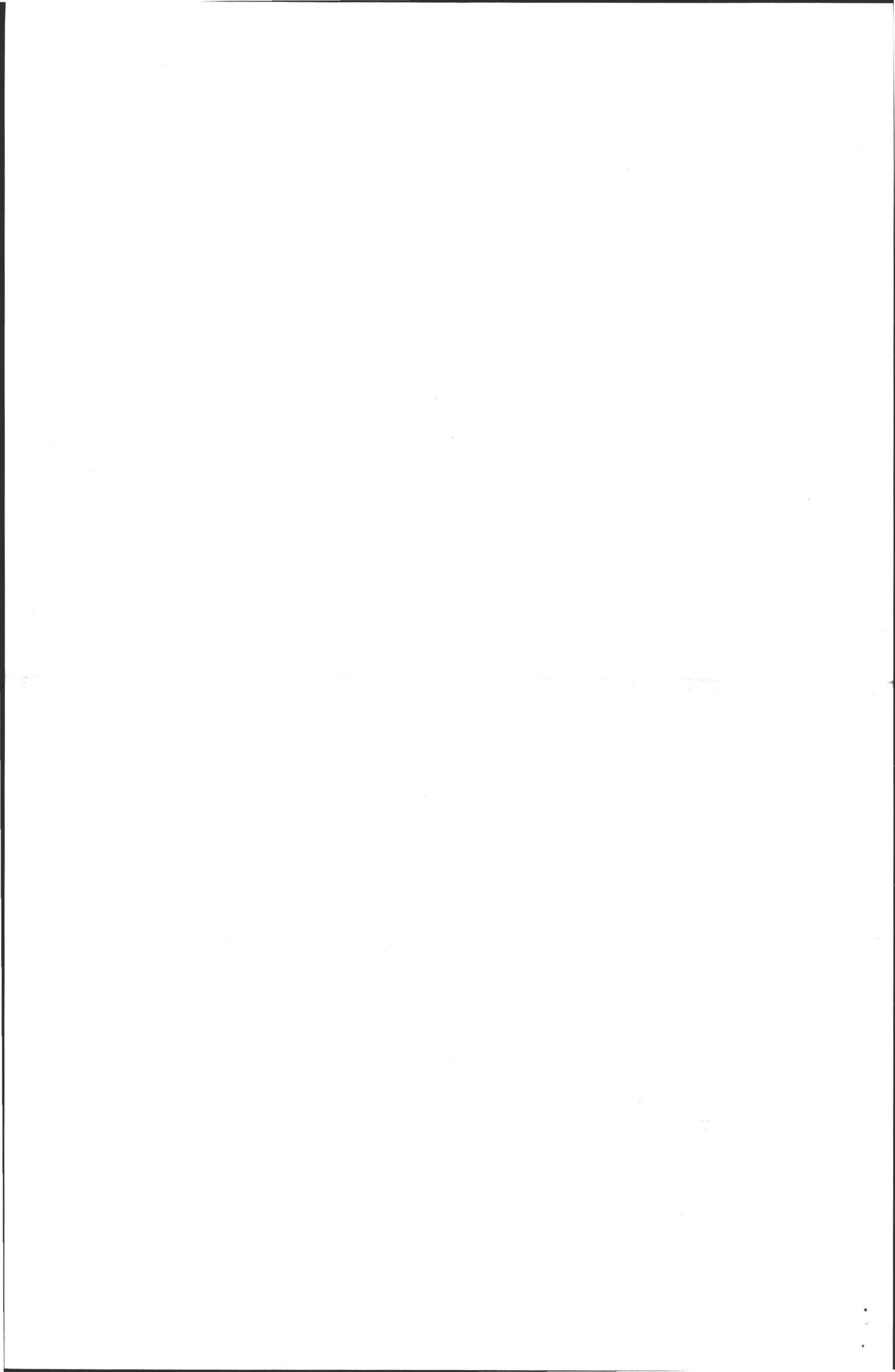
CALCULATIONS

Design Flow: 4 Bds @ 110 = 440 Gal.s
 Perc Rate: 4 min.s/Inch
 2 Trenches: 62' x 2' x 0.5' below inlet
 Sides: (62' x 1')2 = 124 x 2 = 248 Gal.
 Bottom: (62' x 2')2 = 248 x .83 = 205 Gal.
 Total Available Daily Flow = 453 Gal.s

SPECIFICATIONS

All Materials And Construction
 Shall be In Accordance With
 Commonwealth Of Massachusetts
 D.E.Q.E. Environmental Code,
 Title 5.

CROSS-SECTION ON ATTACHED SHEET



SEP 8 1986



S. RUSSELL SYLVA
Commissioner

JOHN J. HIGGINS
Regional Environmental Engineer

The Commonwealth of Massachusetts
Executive Office of Environmental Affairs
Department of Environmental Quality Engineering

Western Region

436 Dwight Street, Springfield, Mass. 01103

(413) 785-5327

September 2, 1986

Amherst Health Department
70 Boltwood Walk
Amherst, MA 01002-2128

Re: Amherst-Connecticut-Title 5
Variance-Wade Property

Attention: Anderson Frederic

Gentlemen:

The Department of Environmental Quality Engineering, Division of Water Pollution Control is in receipt of your Department's letter dated August 26, 1986 regarding the Wade property located on 160 Shays Street, Amherst. The Department agrees to grant variance to 310 CMR 15.02, permitting installation of a subsurface sewage disposal system in a location when a common sanitary sewer is accessible. This variance is granted due to the expense and difficulty which would be encountered for a sewer connection. No variances will be approved for the design and construction phase of the subsurface sewage disposal system.

Please be aware that this Department must approve all variances prior to town approval and issuance of a disposal Works Construction permit.

Should you have any questions regarding this matter, feel free to contact Timothy McElroy or Mark Schleeweis of my staff.

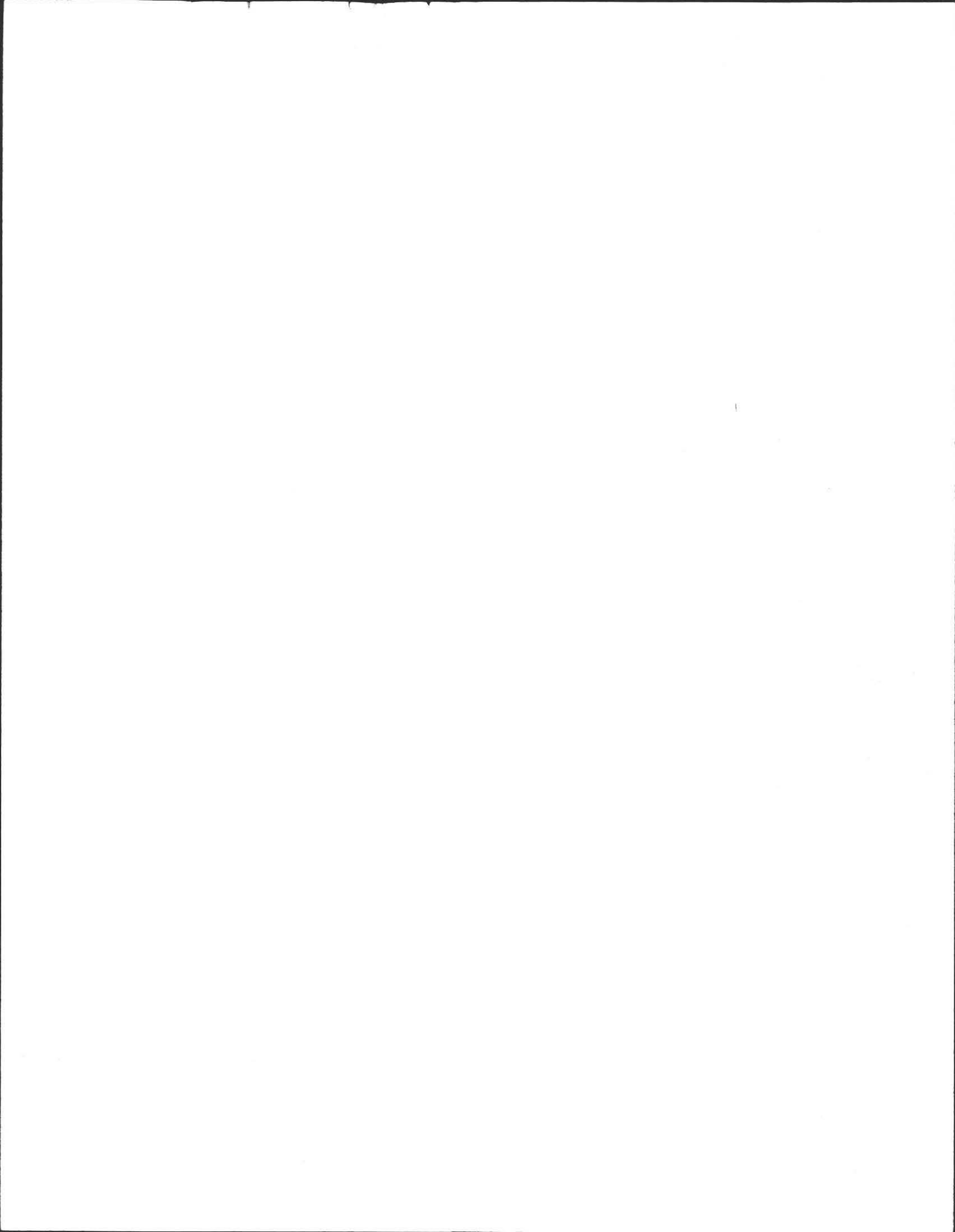
Very truly yours,

A handwritten signature in cursive script that reads "Roland J. Dupuis".

Roland J. Dupuis, P.E.
Deputy Regional Environmental Engineer
Water Programs

RJD/TMcE/trc
mtm:amherst health dept.

cc: Mark Pare



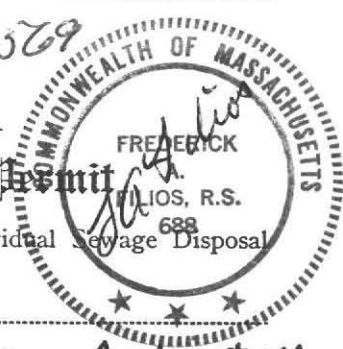
No. 87-4

FEE 90

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:

160 Shays Street

George & Ruth Wade

156 Alpine Drive Amherst, MA.

L & F Construction Co 15 Rattlesnake Gutter Rd, Leverett MA

Type of Building Dwelling — No. of Bedrooms 4 Expansion Attic () Garbage Grinder ()

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

Design Flow 53 gallons per person per day. Total daily flow 440 gallons.

Septic Tank — Liquid capacity 1500 gallons Length 10.5' Width 5' Diameter 5' Depth 5'

Disposal Trench — No. Width 7' Total Length 23' Total leaching area 360 sq. ft. Sides

Seepage Pit No. 1 Diameter Depth below inlet 3' Total leaching area 161 sq. ft. Bottom

Percolation Test Results Performed by John A. Brickett Date 1/15/86

Test Pit No. 1 4 minutes per inch Depth of Test Pit 8' Depth to ground water NONE

Test Pit No. 2 minutes per inch Depth of Test Pit 8' Depth to ground water NONE

Description of Soil Enclosed

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 2/25/87

Application Approved By [Signature] Date 2/27/87

Application Disapproved for the following reasons:

Permit No. 87-4 Issued 2-27-87 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

Town OF Amherst

No. 87-4

FEE 90

Disposal Works Construction Permit

Permission is hereby granted to Construct (X) or Repair () an Individual Sewage Disposal System at No. [] Street

as shown on the application for Disposal Works Construction Permit No. 87-4 Dated 2-25-87

DATE 3-2-87 [Signature] Board of Health

CHECK OR FILL IN WHERE APPLICABLE

of

the
... ..

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

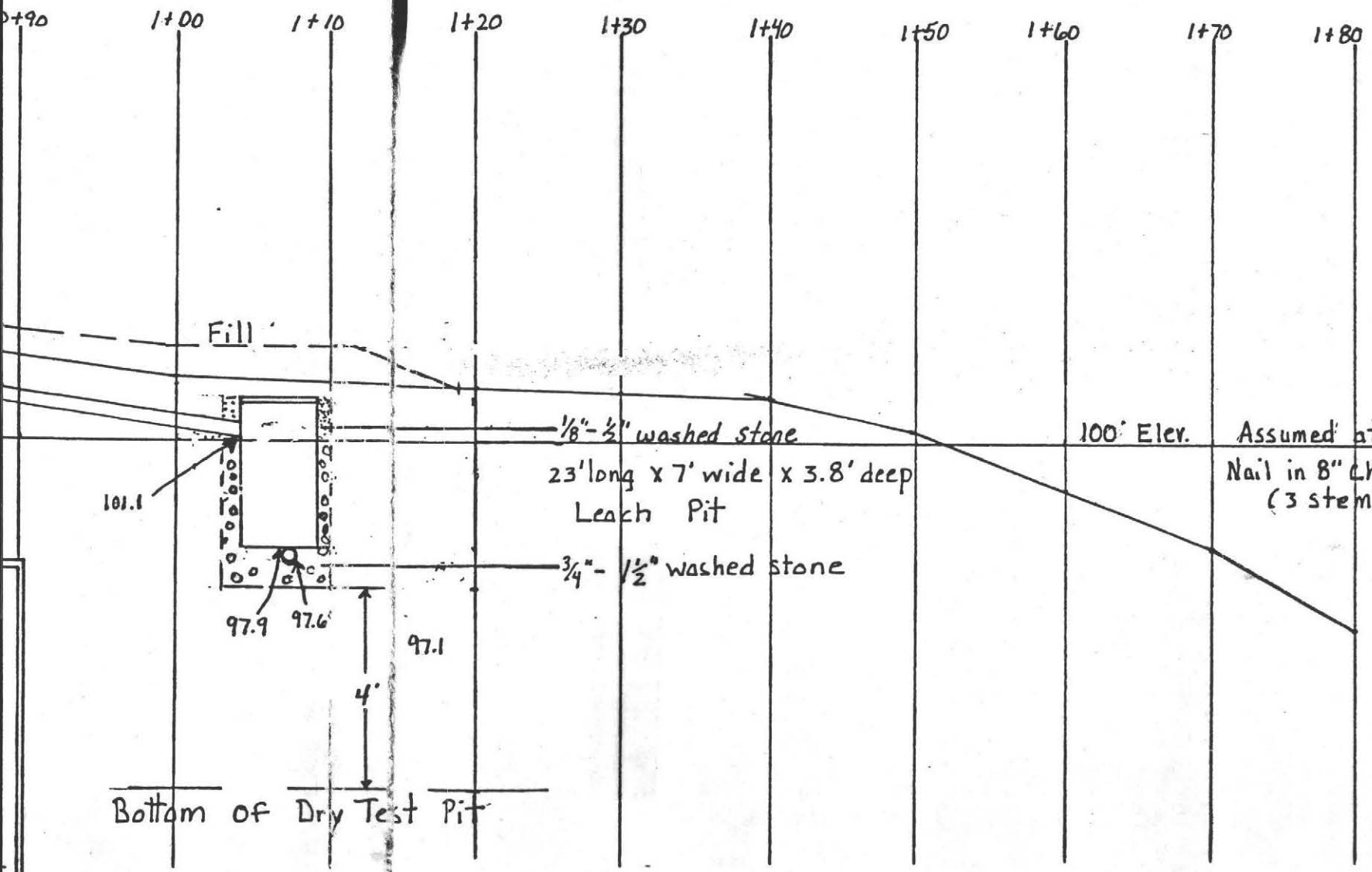
33

SYSTEM

Filios
 Ham Road
 st, MA.

SCALE: Horizontal: 1" = 10'
 Vertical: 1" = 3'

DATE: August 1, 1986



MEGILL

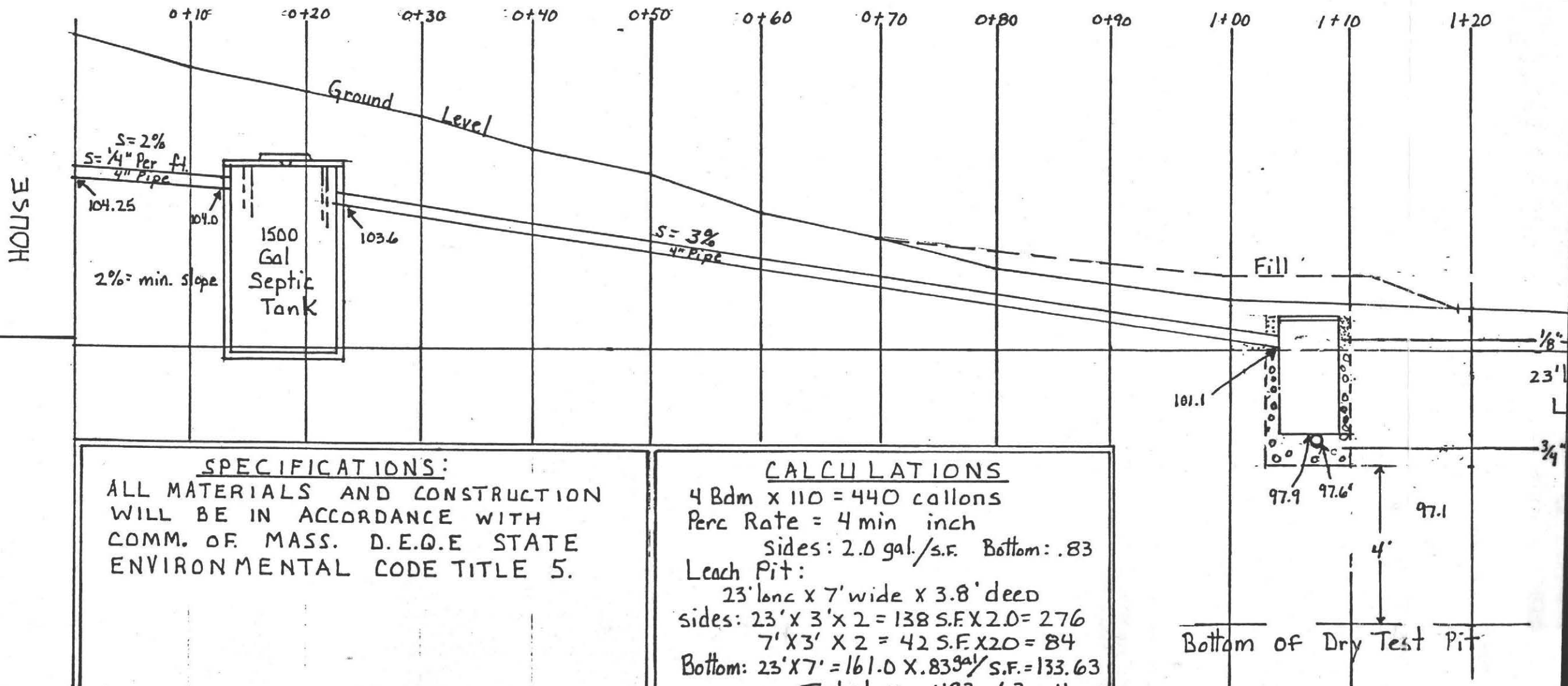
PROFILE OF SEPTIC SYSTEM

FOR: Ruth Wade
156 Alpine Drive
Amherst, MA.

AT: 160 Shays Street
Amherst MA.

BY: F.A. Filios
69 Pelham Road
Amherst, MA.

SCALE: Hor
Ver

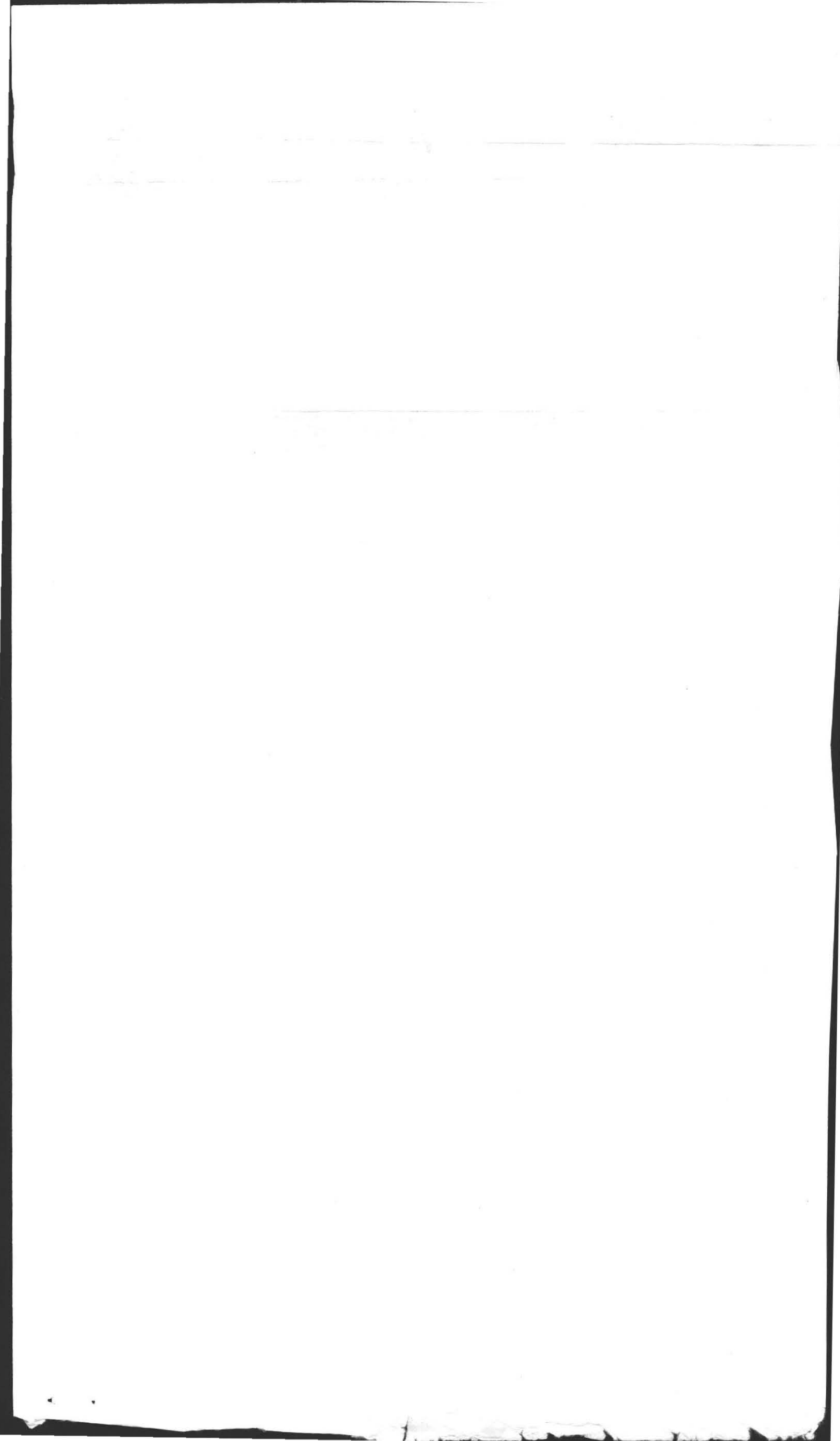


SPECIFICATIONS:

ALL MATERIALS AND CONSTRUCTION
WILL BE IN ACCORDANCE WITH
COMM. OF MASS. D.E.Q. STATE
ENVIRONMENTAL CODE TITLE 5.

CALCULATIONS

4 Bdm x 110 = 440 gallons
Perc Rate = 4 min inch
Sides: 2.0 gal./s.f. Bottom: .83
Leach Pit:
23' long x 7' wide x 3.8' deep
sides: 23' x 3' x 2 = 138 S.F. x 2.0 = 276
7' x 3' x 2 = 42 S.F. x 2.0 = 84
Bottom: 23' x 7' = 161.0 x .83 gal/s.f. = 133.63
Total = 493.63 gallons



OBSERVATION PITS

TESTED BY: HOWARD KOBIN - 51 LONG PLAIN Rd LEBEROTT, MA.

LOCATION: NORTH SIDE SLAYS ST, AMHERST, MA.

DATE: 1/15/86

OBSERVER: C. BRAKE, R.S.

T.P. #1

| | |
|---------------|-----|
| SANDY LOAM | 60" |
| SAND | 96" |

NO WATER

T.P. #2

| | |
|---------------|-----|
| SANDY LOAM | 60" |
| SAND | 96" |

NO WATER

T.P. #3

| | |
|---------------|-----|
| SANDY LOAM | 24" |
| SAND | 96" |

NO WATER

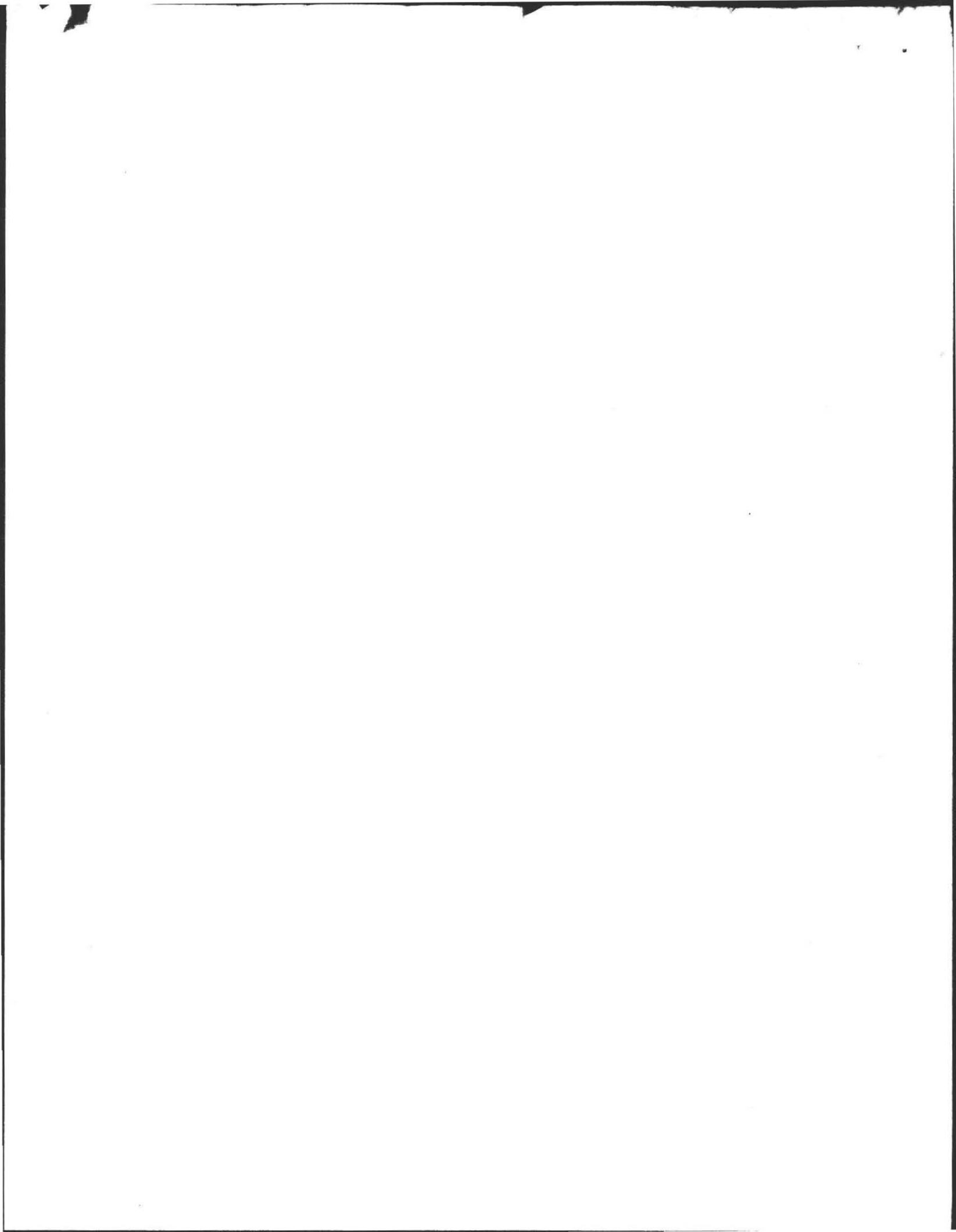
Perme @ 60"
1" / 3 MINS

T.P. #4

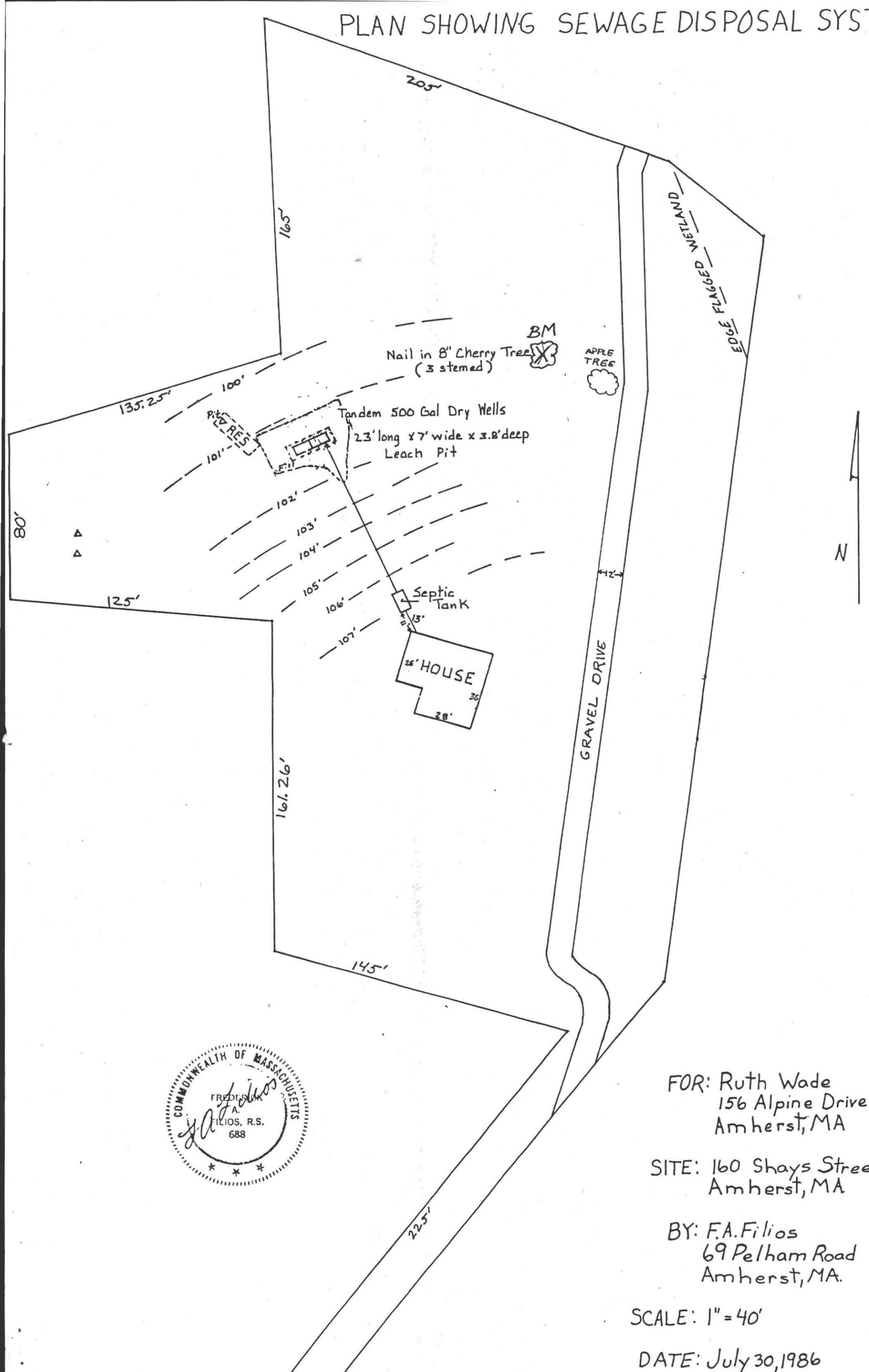
| | |
|---------------|-----|
| SANDY LOAM | 24" |
| SAND | 96" |

Perme 18"
1" / 3 MINS





PLAN SHOWING SEWAGE DISPOSAL SYST.



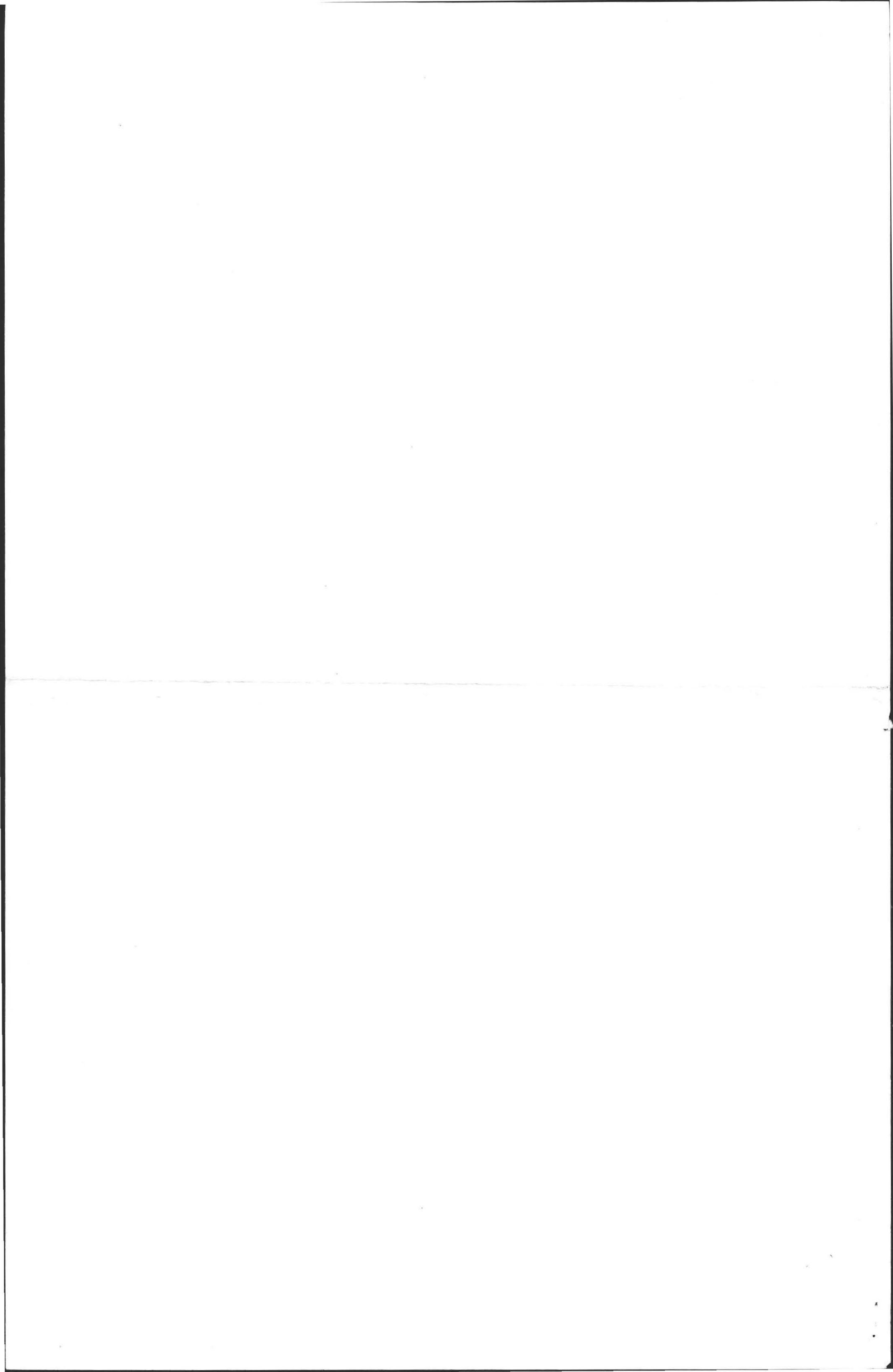
FOR: Ruth Wade
 156 Alpine Drive
 Amherst, MA

SITE: 160 Shays Street
 Amherst, MA

BY: F.A. Filios
 69 Pelham Road
 Amherst, MA.

SCALE: 1" = 40'

DATE: July 30, 1986



Town of



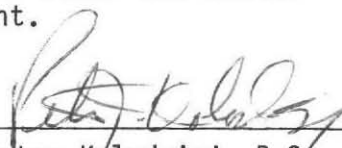
AMHERST Massachusetts

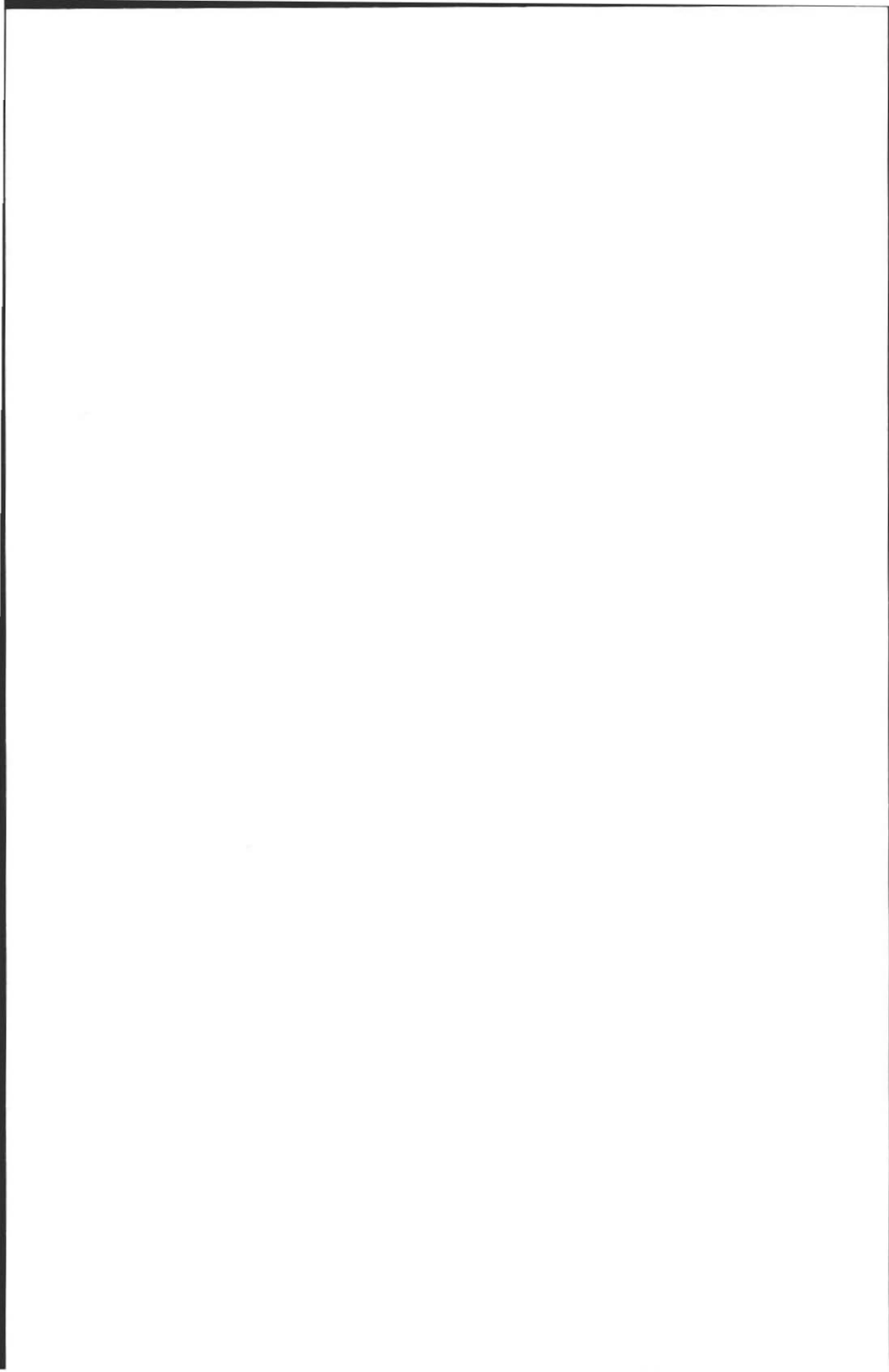
AMHERST HEALTH DEPARTMENT
(413) 253-7077

October 19, 1987

Issue of Septic Construction Permit subject
to the following: Wade 160 Shays St. #87 -6 Rey.

- o Septic tank previously installed and approved at 10 feet from foundation. Should have been 25 feet from foundation with sub-surface drain.
- o Prior to installation of septic system contractor to dig test pit at least 10 feet deep in location of proposed system to confirm at least 6 feet of naturally occurring pervious soil between bottom of proposed system and groundwater.
- o Above to be witnessed and confirmed by designer and Town agent, if possible.
- o If groundwater is observed at an unacceptable elevation the designer shall inform the contractor of the changes in construction necessary and shall forward a copy of an as built plan to the owner and the Amherst Health Department.


Peter Kolodziej, R.S.

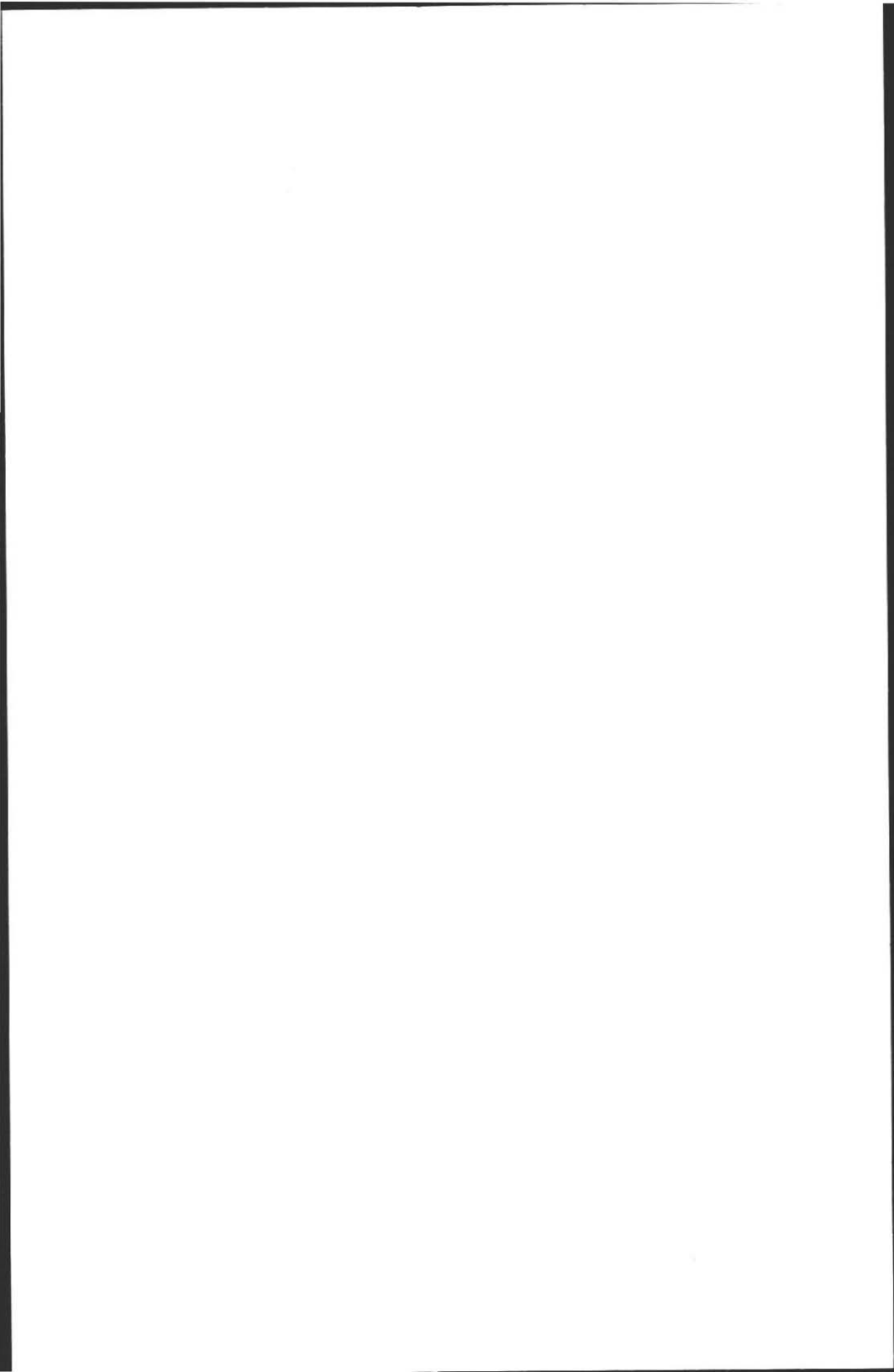


Town of



AMHERST *Massachusetts*

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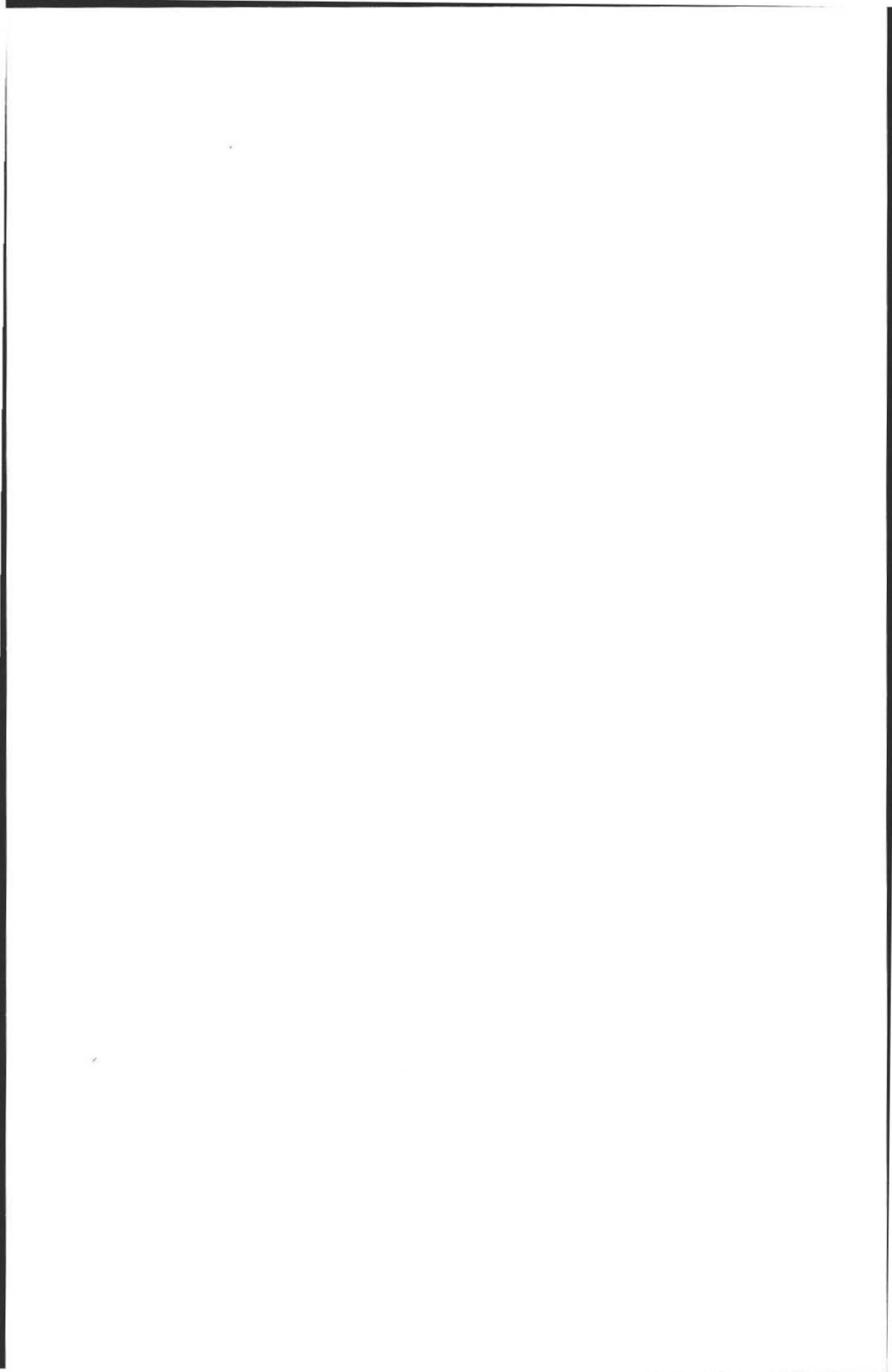


Town of



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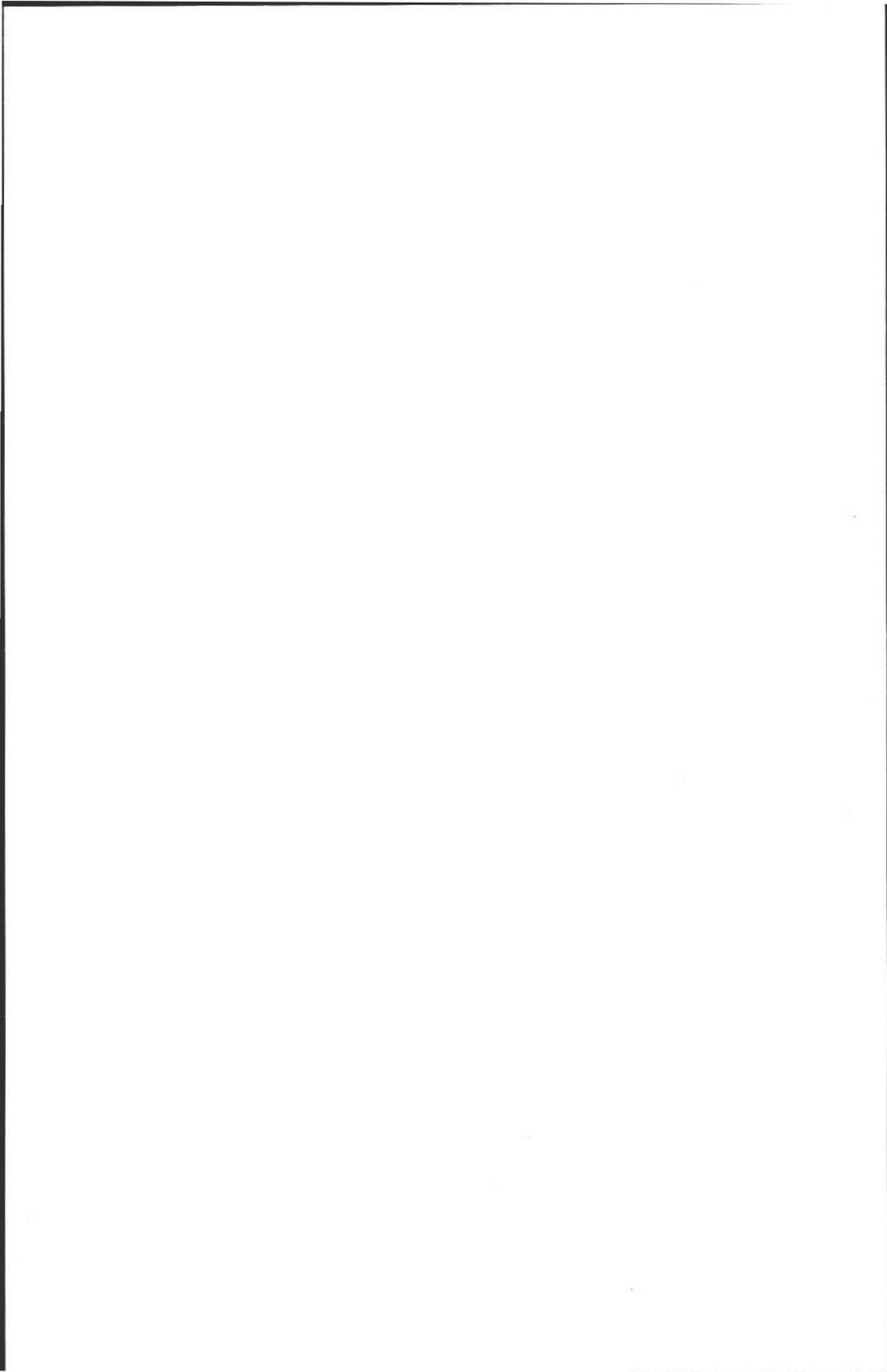


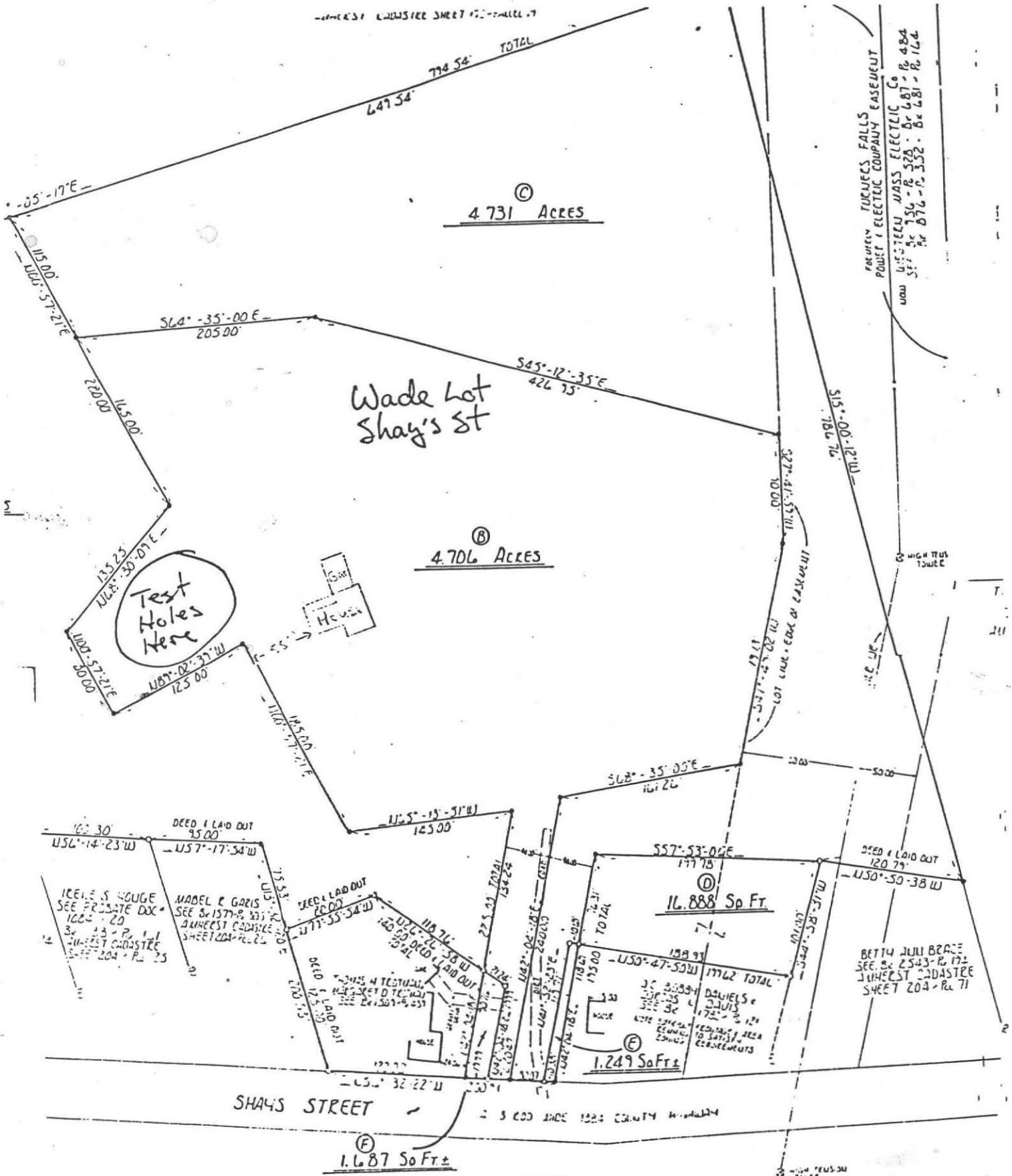
Town of



AMHERST *Massachusetts*

AMHERST HEALTH DEPARTMENT
(413) 253-7077





FOR EGRESS TUJUMES FALLS
POWER & ELECTRIC COMPANY EASEMENT
UNITECH MASS ELECTRIC CO
SEE: 876-0.352; 876-0.484
876-0.528; 876-0.581; 876-0.684

Test Holes Here

Wade Lot
Shay's St

(C)
4.731 ACRES

(B)
4.706 ACRES

(D)
16,888 Sq Ft

(E)
1.249 Sq Ft

(F)
1.687 Sq Ft

LEGEND

- 1/4\"/>

DEED & LAD OUT
95.00'
U56°-14'-23\"/>
ICELE S WIDGE
SEE PRSATE DX
100-20
3-13-P-1-1
24-TEST CADASTRE
SHEET 204-P-25

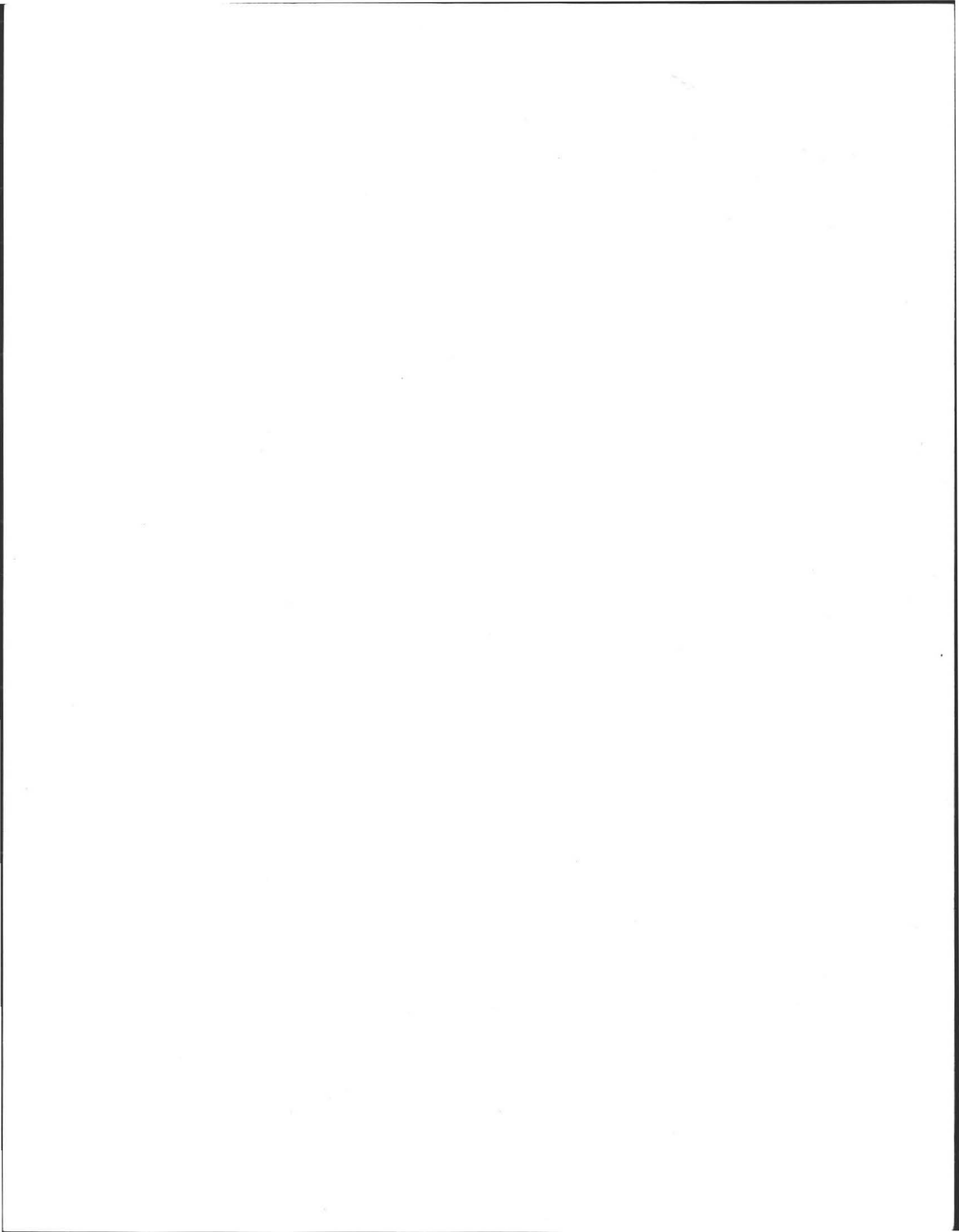
MABEL R GARIS
SEE B. 1577-P. 325
ADJACENT CADASTRE
SHEET 204-P-25

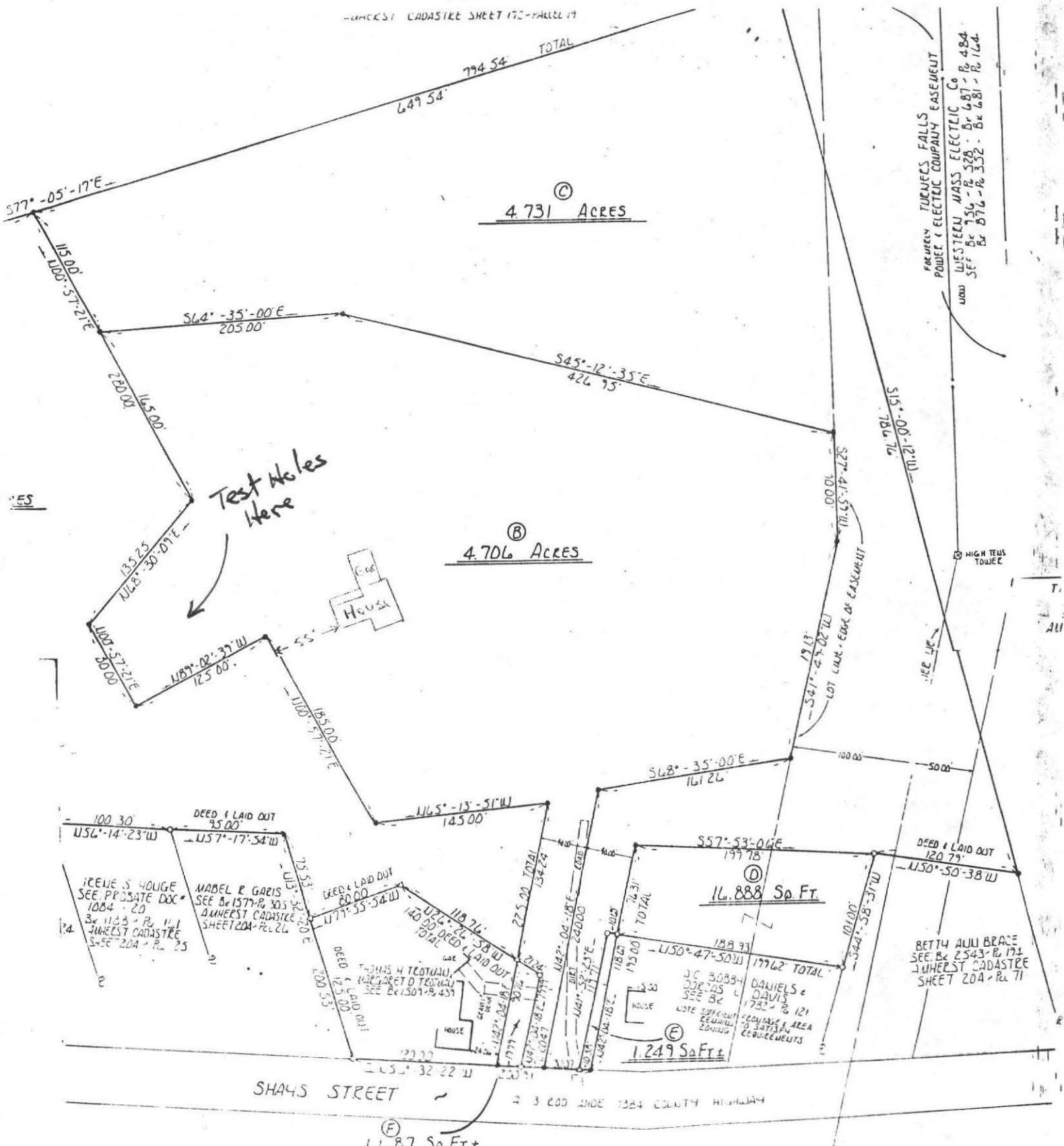
DEED & LAD OUT
120.75'
U50°-50'-38\"/>
BETTY JULI BRACE
SEE B. 2543-P. 172
ADJACENT CADASTRE
SHEET 204-P. 71

17762 TOTAL
U50°-47'-50\"/>
DANIELS &
DAVIS
1752-12-12
RESERVE & JES
15 SATISF
CONVEYMENTS

SHAY'S STREET

3 500 INCH 1924 COUNTY ROAD





4.731 [©] ACRES

4.706 [ⓑ] ACRES

16,888 Sq. Ft. [Ⓒ]

1,249 Sq. Ft. [Ⓓ]

1,687 Sq. Ft. [Ⓔ]

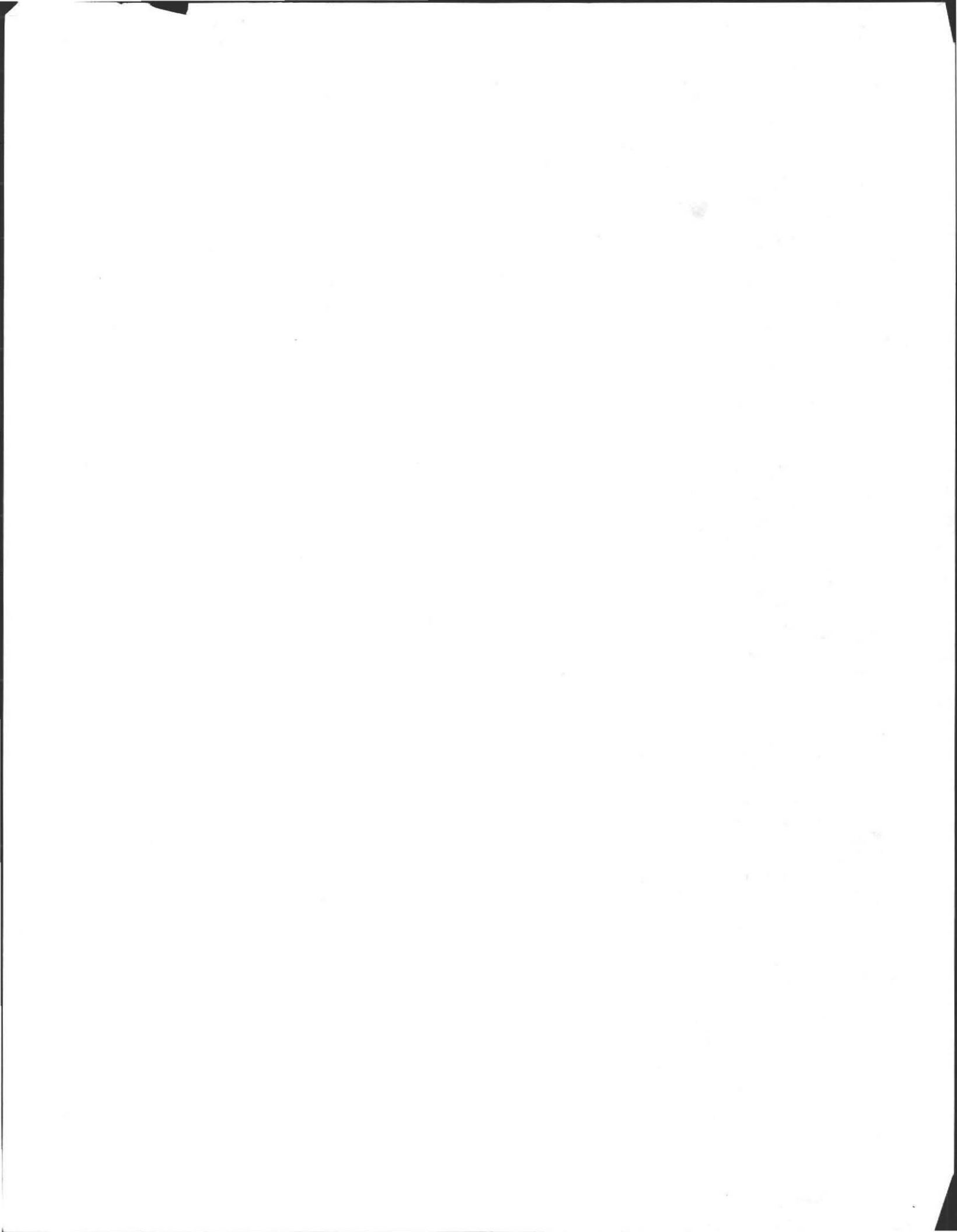
FOR THE TURNERS FALLS
POWEE & ELECTRIC COMPANY EASEMENT
WESTERN MASS ELECTRIC CO
SEE Bk 756 - P. 528 - Bx 687 - P. 484
Bk 876 - P. 352 - Bx 681 - P. 164

HIGH TENS TOWER

BETTY ANNI BRACE
SEE Bk 2543 - P. 174
AMHERST CADASTRE
SHEET 204 - P. 71

LEGEND
 1. UNDEVELOPED PLANT
 2. FUND
 3. TO BE SET

3.14159 IN FEET



Date April 4, 1986

To: *Whom It May Concern:*

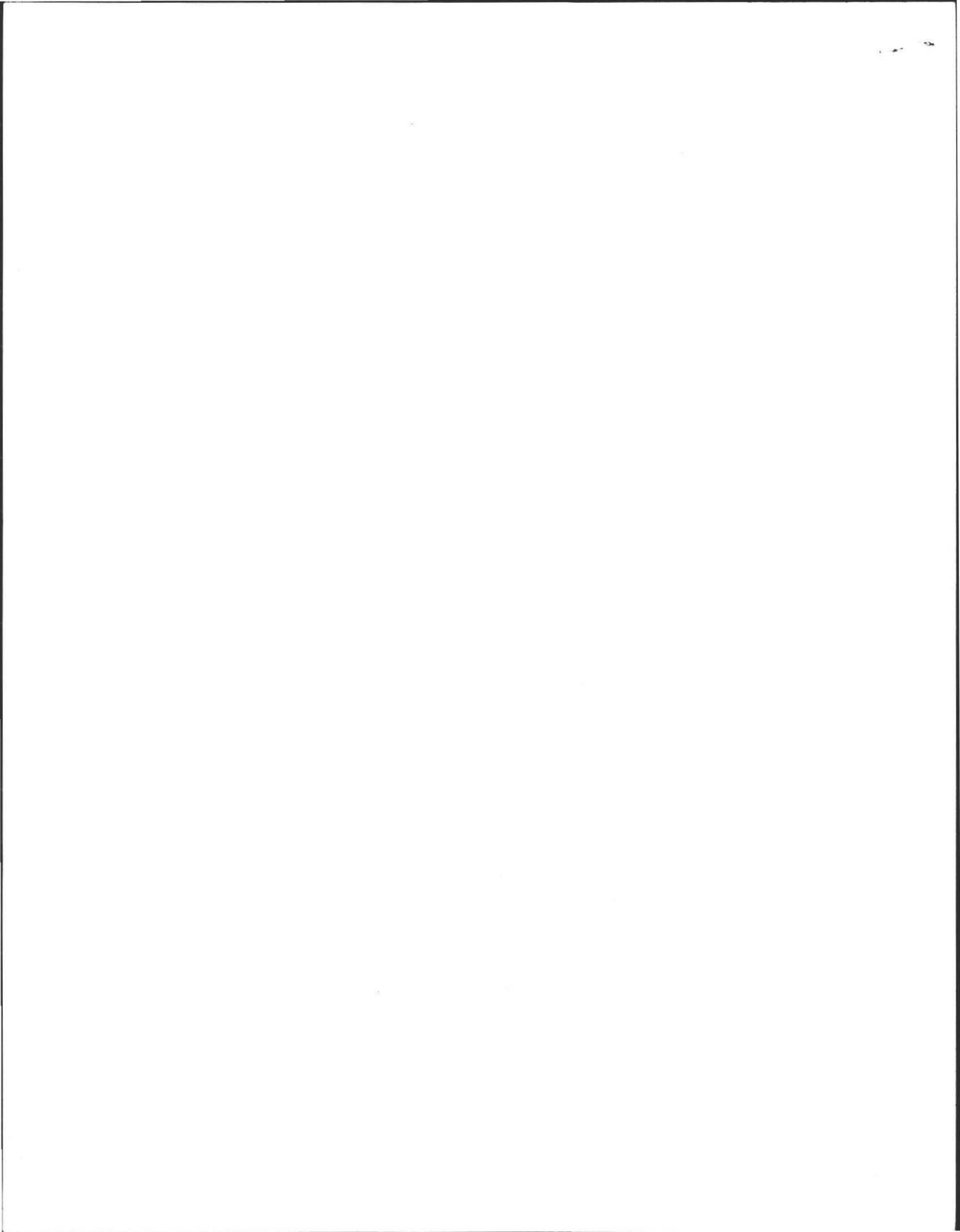
As residents of 187 Heatherstone Road in Echo Hill, my husband Tim and I have had several problems with our sewer system. Our house is on a downward slope, so that our sewage must be pumped uphill to the town pipes by a sump pump in our basement. Since we moved in 7 years ago, we've had the pump back up onto the basement floor 3 times, and had to replace the pump entirely once. If we had any other option than to use this pump (as much as we like our house otherwise), we would take it!

Thank you for your time and consideration.

Sincerely,
Karen Schmitt

from . . .

TIM SCHMITT



Memo:

To: Ruth Wade:

From: E. Harris Nober, 211 Heatherstone Rd., Amherst, MA. 01002

Date: April 15, 1986


Topic: Household refuse pumps

Since our house is located on the western, down side of Heatherstone Rd., we have had an inground submersible pump to move sanitation waste toward the street sewer location. In fact, all the homes on our street have some type of pump mechanism and collectively we share parallel thoughts, e.g. if we could find some way to eliminate the pump and its impending inconvenience, we would seriously entertain a viable alternative. While the problems are not daily, a house with a pump has another mechanical unit that can potentially jam or stop working, particularly under stress conditions.

If you have an option to elect some alternative to a pump, then I would advise you to avoid installing a pump. Frankly, I would not knowingly elect to build or purchase a home in a location that would require or has a mechanical pump system to eject waste products to a remote main sewer line.

Good luck with your new home.

Cordially,



E. Harris Nober

