

BOARD OF HEALTH, AMHERST, MASSACHUSETTS
APPLICATION FOR DISPOSAL WORKS CONSTRUCTION PERMIT

#180

No. 64-30 Date Oct 14, 64 Fee 3.00 Date Rec'd. 10-14-64 By CEB

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

Location—Address Market Hill Road Amherst or Lot No. _____

Owner Julian F. Janowitz Address 60 Hallow Dr.

Contractor _____ Address _____

Type of Building _____ Dimensions 24x72 Size Lot 8 1/2 acres

Dwelling—No. of Bedrooms 3 Expansion Attic No Garbage Grinder No

Other _____ No. of persons 4 Showers () 2

Other fixtures Dishwasher, clothes washer

Town Water? yes Type of Well _____

Design Flow 75 gallons per person per day Total daily flow _____ gallons

Septic Tank—Liquid capacity 9000 gallons Dimensions: L _____ W _____ D _____

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

Disposal Bed—No. _____ Diameter _____ Depth below inlet _____ Total leaching area _____ sq. ft.

Dry Well—No. _____ Diameter _____ Depth below inlet _____ Dimensions: _____ x _____ x _____

Other: Distribution box () No. _____ Dosing tank () _____

(Depth of Soil Line Below finished grade at foundation _____)

Percolation Test Results Performed by _____ Date _____

Test Pit No. 1 _____ minutes per inch Depth of Test Pit _____

Test Pit No. 2 _____ minutes per inch Depth of Test Pit _____

Description of Soil _____ Depth to Ground Water _____

Will disposal area be filled? _____ Cut down? _____

(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 aforescribed 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 CEB Julian F. Janowitz Owner or builder 10-14-64 date

Application Disapproved for the following reasons: 10-16-64 date

BOARD OF HEALTH, AMHERST, MASSACHUSETTS
CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY, That the individual Sewage Disposal System installed () or repaired () by _____ at _____ has been constructed in accordance with the provisions of

INSTALLER _____ Article XI 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 satisfactorily.

DATE _____ Inspector _____

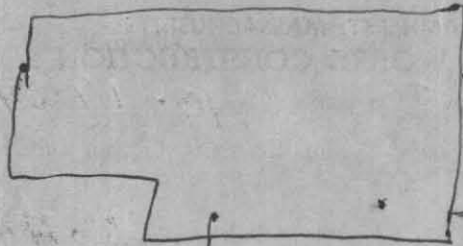
BOARD OF HEALTH, AMHERST, MASSACHUSETTS
DISPOSAL WORKS CONSTRUCTION PERMIT

No. 64-30 Permission is hereby granted J. Janowitz to construct () or repair () an Individual Sewage Disposal System at MARKET Hill Rd

as shown on the application for Disposal Works Construction Permit No. 64-30

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.

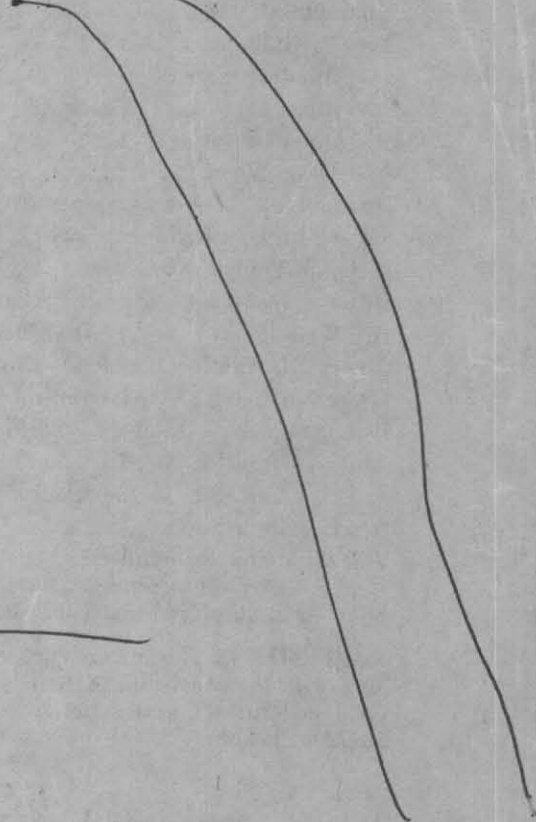
DATE 10-16-64 CEB Board of Health



DRY WASH
Kitchen Sink

1000
ST.

6x6x8
DRY WASH



MKT Minn Rd

FEB 27 1996

Commonwealth of Massachusetts
AMHERST, Massachusetts

System Pumping Record

System Owner <i>M. Bartuistello</i>	System Location <i>180 Market Hill Rd</i>
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Date of Pumping: *2-26-96*

Quantity Pumped: *1500 + P.C.* gallons

Type: Emergency Routine

Cesspool: No Yes Septic Tank: No Yes

System Pumped by (Company): Karl's Site Work Inc Permit #: 96-01 (OF)

Contents transferred to:

Erving Paper Mill W.W.T.P.

Date *2-26-96* Pumper Signature *WBR*

Observations/Comments: *The line from pump chamber to L.F. or P.W. is froze*

Handwritten text, possibly a name or address, located at the top of the page.

Handwritten text, possibly a name or address, located in the middle section of the page.

Handwritten text, possibly a name or address, located in the lower middle section of the page.

Handwritten text, possibly a name or address, located at the bottom of the page.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
SYSTEM INFORMATION

FLOW CONDITIONS

If residential

- 4/5 number of bedrooms
4 10/2 number of current residents
N garbage grinder, yes or no
Y laundry connected to system, yes or no
N seasonal use, yes or no

If nonresidential, calculated flow:

Water meter readings, if available:

CURRENT Last date of occupancy

GENERAL INFORMATION

Pumping records and source of information:

1994 (Kof's)

- Y System pumped as part of inspection, yes or no
if yes, volume pumped 1000 gal.
Reason for pumping:

Type of system

- Septic tank/distribution box/soil absorption system
 Single cesspool
 Overflow cesspool
 Privy
 Shared system (yes or no) (if yes, attach previous inspection records, if any)
 Other (explain)

Approximate age of all components. Date installed, if known. Source of information:

5 yrs +/-

- No Sewage odors detected when arriving at the site, yes or no

ALAN E. WEISS, M.S., L.S.P.

Licensed Site Professional
Registered Sanitarian

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Address of property 180 MARKET HILL RD, AMHERST
Owner's name JEANNE + LOU MUDGE
Date of Inspection 4/6/95

**PART A
CHECKLIST**

Check if the following have been done:

- Pumping information was requested of the owner, occupant, and Board of Health.
- None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection.
- N/A As built plans have been obtained and examined. Note if they are not available with N/A.
- The facility or dwelling was inspected for signs of sewage back-up.
- The site was inspected for signs of breakout.
- All system components, excluding the SAS, have been located on the site.
- The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum.
- The size and location of the SAS on the site has been determined based on existing information or approximated by non-intrusive methods.
- The facility owner (and occupants, if different from owner) were provided with information on the proper maintenance of SSDS.

NOTED ON REPORT

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
SYSTEM INFORMATION continued

SOIL ABSORPTION SYSTEM (SAS): ✓
(locate on site plan, if possible; excavation not required, but may be approximated by non-intrusive methods)

If not determined to be present, explain:

Type

- leaching pits and number
- ✓ leaching chambers and number
- leaching galleries and number
- leaching trenches, number, length
- leaching fields, number, dimensions
- overflow cesspool, number

1-1000 gal. (Kellogg)

Comments:

(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, recommendations for maintenance or repairs, etc.)

Good Condition 27" STATIC LIQUID, 24" from Invert to liquid.

CESSPOOLS (locate on site plan):

- number and configuration
- depth-top of liquid to inlet invert
- depth of solids layer
- depth of scum layer
- dimensions of cesspool
- materials of construction
- indication of groundwater inflow (cesspool must be pumped as part of inspection)

Comments:

(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, recommendations for maintenance or repairs, etc.)

PRIVY:

(locate on site plan)

- materials of construction
- dimensions
- depth of solids

Comments:

(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, recommendations for maintenance or repairs, etc.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
SYSTEM INFORMATION continued

SEPTIC TANK: 1000
(locate on site plan)

depth below grade: 6"

material of construction: concrete metal FRP other(explain)

dimensions: _____

- 4.6" sludge depth
- 36" distance from top of sludge to bottom of outlet tee or baffle
- 2" scum thickness
- 6" distance from top of scum to top of outlet tee or baffle
- 24" distance from bottom of scum to bottom of outlet tee or baffle

Comments:
(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, recommendations for repairs, etc.)

DISTRIBUTION BOX: _____
(locate on site plan)

_____ depth of liquid level above outlet invert

Comments:
(note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, recommendation for repairs, etc.)

PUMP CHAMBER: Yes
(locate on site plan)

_____ pumps in working order, (yes) or no

Comments:
(note condition of pump chamber, condition of pumps and appurtenances, recommendations for maintenance or repairs, etc.)

INSPECT JANUARY

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
FAILURE CRITERIA

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not)

N Backup of sewage into facility?

N Discharge or ponding of effluent to the surface of the ground or surface waters?

N Static liquid level in the distribution box above outlet invert?

ND Liquid depth in cesspool <6" below invert or available volume < 1/2 day flow?

N Required pumping 4 times or more in the last year?
number of times pumped _____

N Septic tank is metal? cracked? structurally unsound? substantial infiltration? substantial exfiltration? tank failure imminent?

N Is any portion of the SAS, cesspool or privy:
below the high groundwater elevation?

N within 50 feet of a surface water?

N within 100 feet of a surface water supply or tributary to a surface water supply?

N within a Zone I of a public well?

N within 50 feet of a bordering vegetated wetland or salt marsh (cesspools and privies only, not the SAS)?

N within 50 feet of a private water supply well?

ND/N less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis? If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen.
FOUND WATER

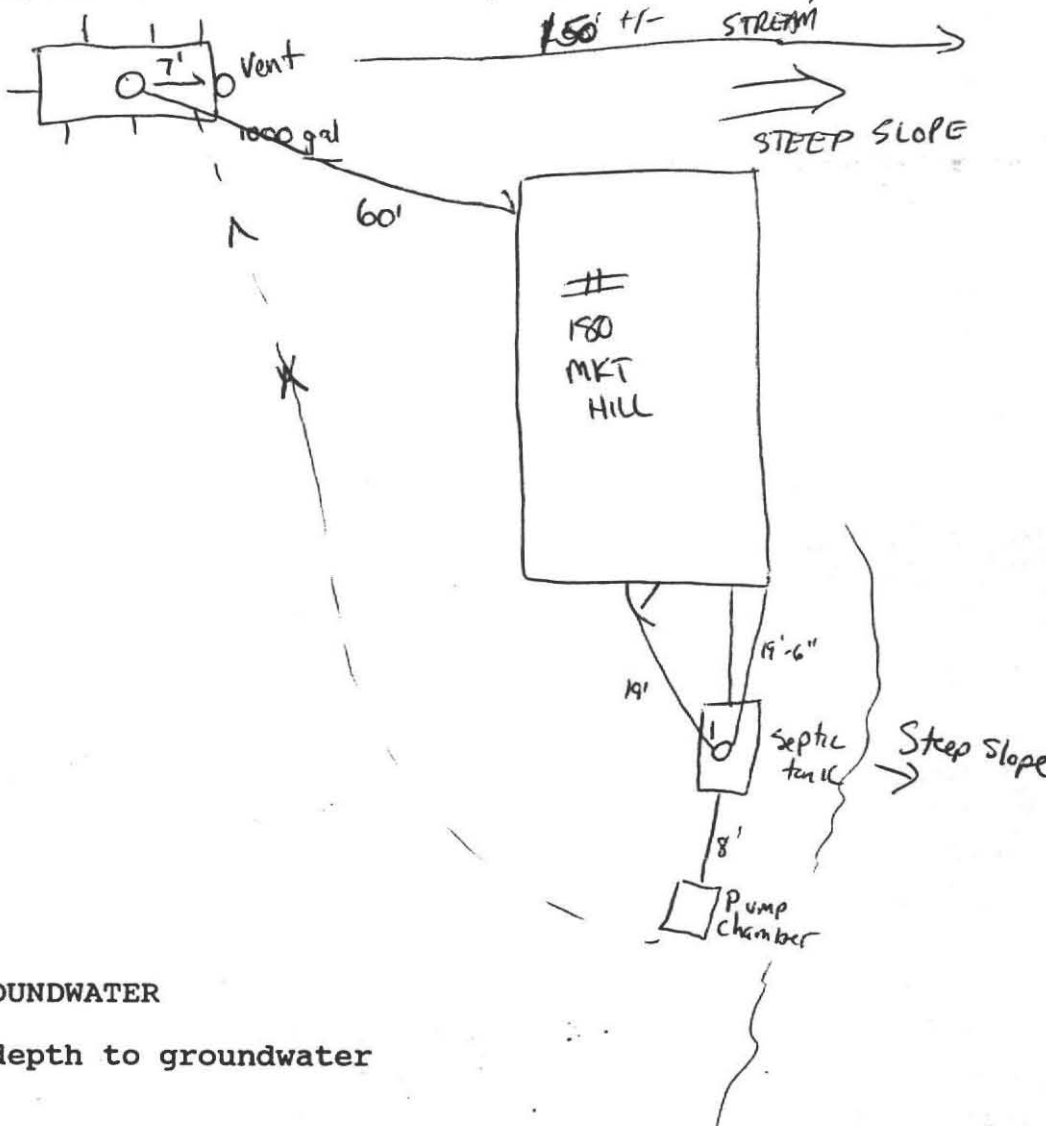
COULD NOT FIND ANY WELLS

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
SYSTEM INFORMATION continued

SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent references landmarks or benchmarks
locate all wells within 100'

full size leach tank 24" to liq. level from invert., 27" STANDING LIQUID



DEPTH TO GROUNDWATER

10' + depth to groundwater

method of determination or approximation:

TOPOGRAPHY.

**SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART D
CERTIFICATION**

Name of Inspector ALAN E. WEISS
 Company Name COLD SPRING ENV. CONS., INC.
 Company Address 350 OLD FAFIELD RD.
 BELCHERTOWN, MA. 01007

Certification Statement

I certify that I have personally inspected the sewage disposal system at this address and that the information reported is true, accurate and complete as of the time of inspection. The inspection was performed and any recommendations regarding upgrade, maintenance and repair are consistent with my training and experience in the proper function and maintenance of on-site sewage disposal systems.

Check one:

I have not found any information which indicates that the system fails to adequately protect public health or the environment as defined in 310 CMR 15.303. Any failure criteria not evaluated are as stated in the **FAILURE CRITERIA** section of this form.

I have determined that the system fails to protect public health and the environment as defined in 310 CMR 15.303. The basis for this determination is provided in the **FAILURE CRITERIA** section of this form.

Inspector's Signature Alan E. Weiss

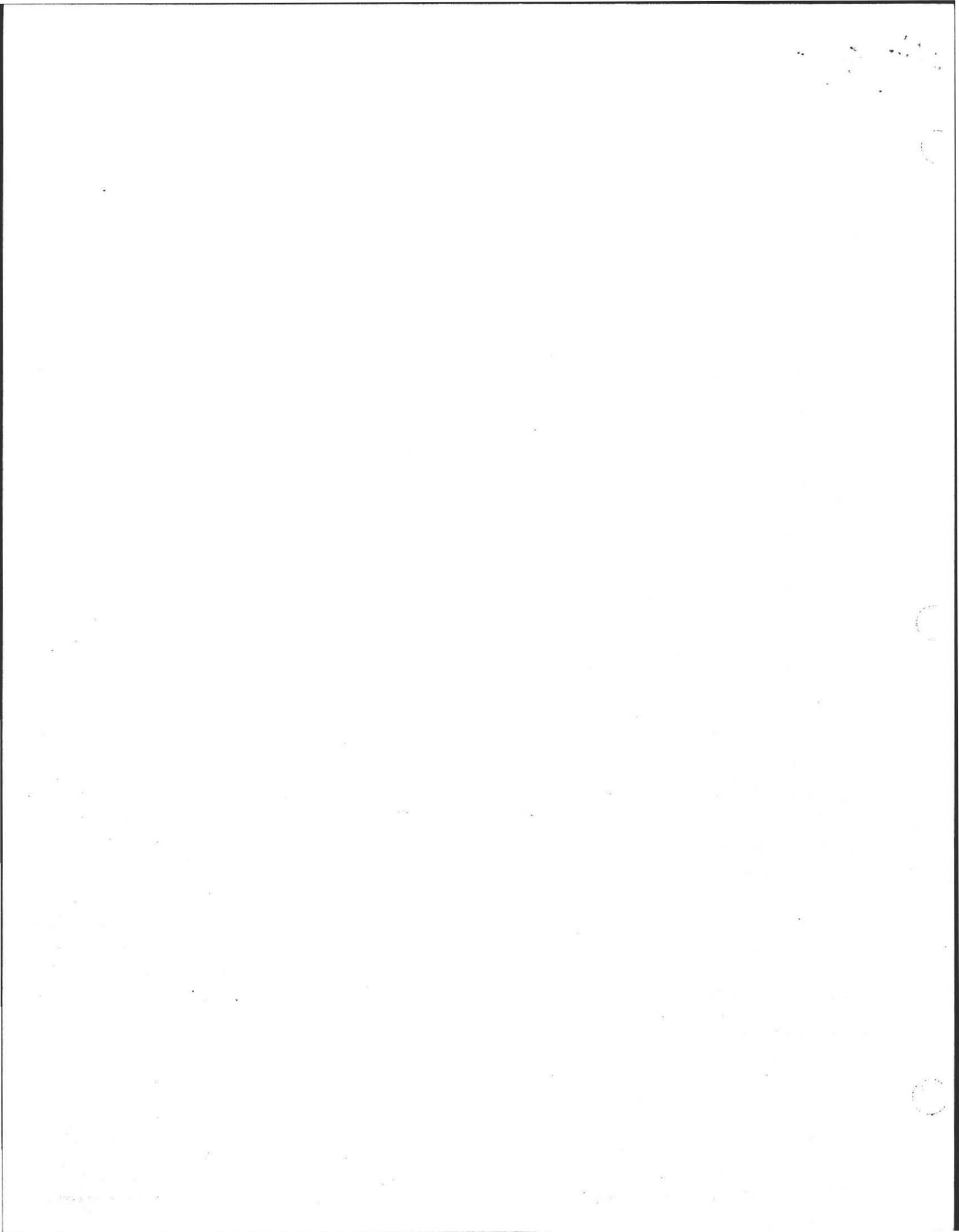
Date 4/6/95

Original to system owner Joe Dece Waterman
D. H. Jones Realty
Amherst, MA.
589-3700

Copies to:

Buyer (if applicable)
 Approving authority D. ZAROZINSKI





File

Richard Scott, P.E.
31 Shutesbury Road
Pelham, Ma. 01002

August 28, 1991

Dave Zarozinski
Town of Amherst Health Department
Bangs Center
Amherst Ma. 01002

#180

Re: Septic System Repair at Market Hill Road
Jean & Lewis Mudge

On August 6, 1991 I conducted an as-built inspection of this new septic system. The as-built dimensions are shown in "clouds" on the enclosed plan copy.

All system components are installed except the vent pipe over the leach pit and the wiring of the pump alarms inside the house. Elevations vary slightly from plan but all are within Title 5 requirements. In plan view the location of the leach field is shifted a small amount to preserve landscape trees. This small shift will not affect system performance and the field location remains over the test pits.

My recommendation is that you approve the installation for backfill and use.

If you should have any further questions on this project please don't hesitate to call me.

Sincerely,

Richard Scott

Richard Scott P.E.

cc: Jean & Lewis Mudge

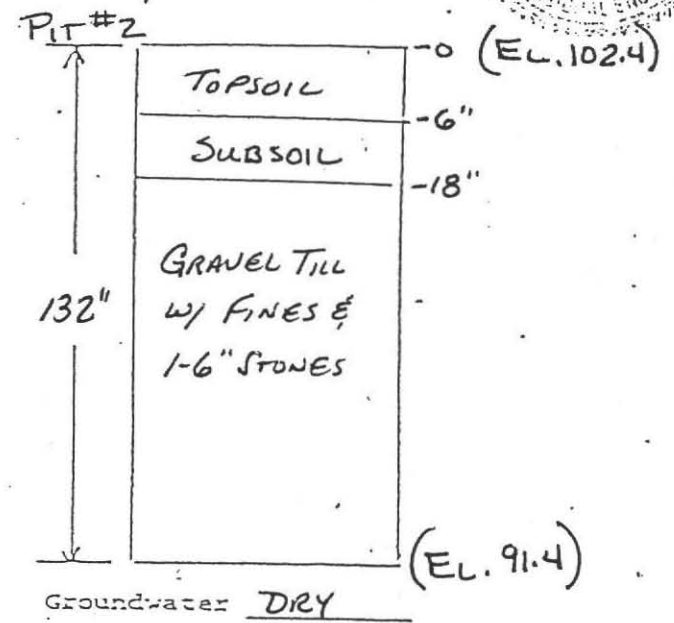
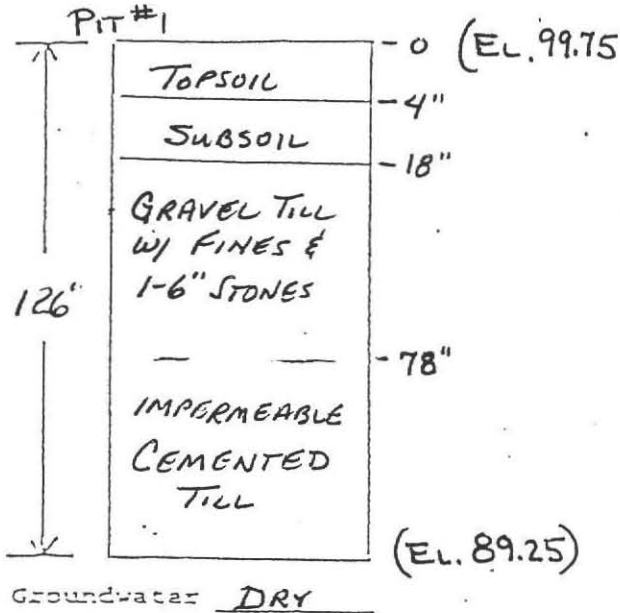
OBSERVATION PITS

REQUESTED BY: JEAN & LEWIS MUDGE

LOCATION: 180 MARKET HILL ROAD
AMHERST, MA.

MAILING ADDRESS: % BETSEY MILLER, SAGE & SEAVER
79 SOUTH PLEASANT ST. AMHERST, MA. 01002

DATE: 6-25-91 OBSERVER: R. SCOTT, P.E. WITNESS: D. ZAROZINSKI, BOEH.



PERC BOTTOM DEPTH = 48"

START SOAK @

25 GAL SOAK

12" @ 8:27

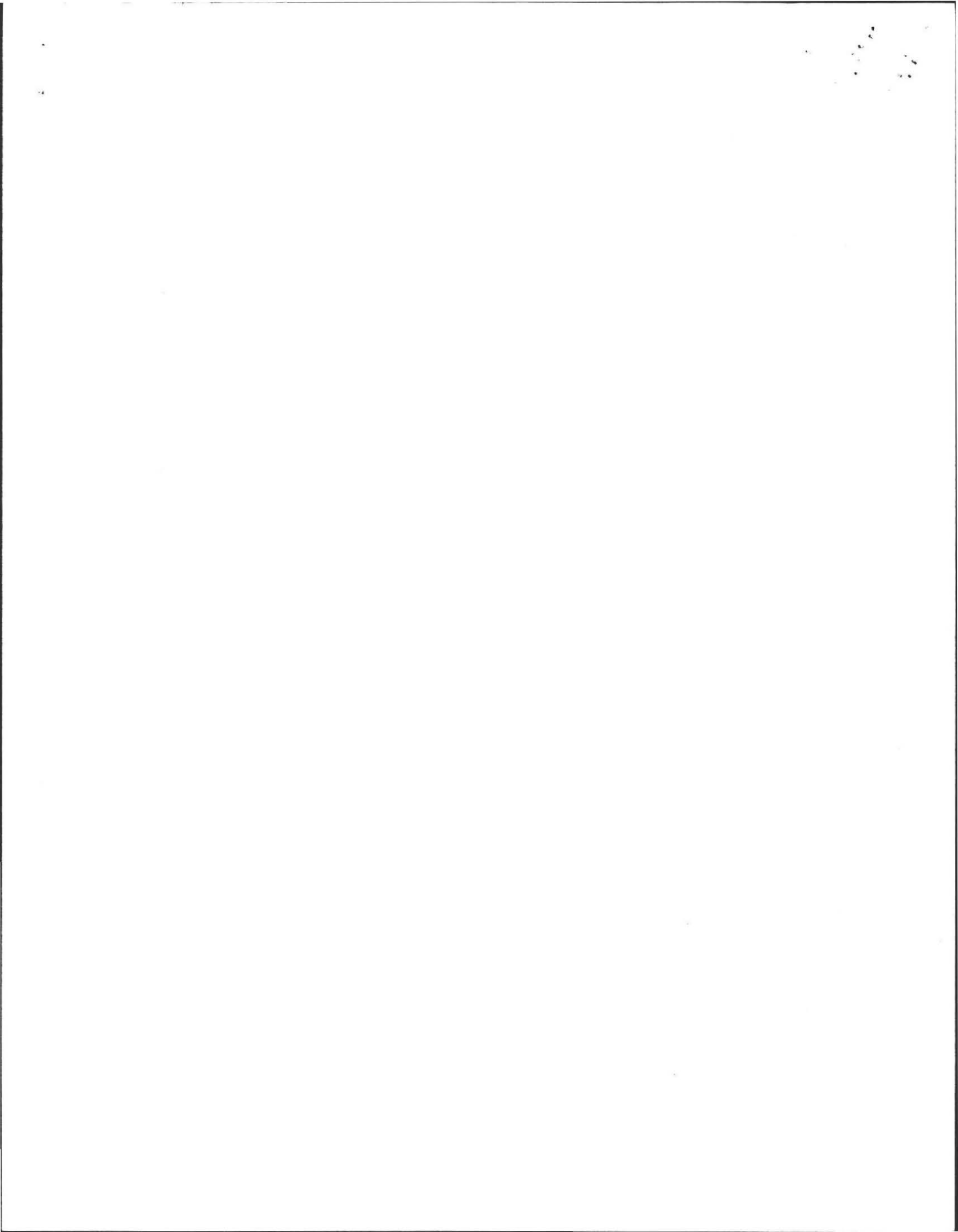
9" @ 8:28:30

6" @ 8:30:30

2 MIN. / 3 IN.

PERC RATE = 0.7 MIN. / IN.

DESIGN RATE = 2 MIN. / IN.



91-9

TOWN OF AMHERST

CK 16523
100.00
Sage + Sewer
6/25/91

PERC TEST DATA SHEET

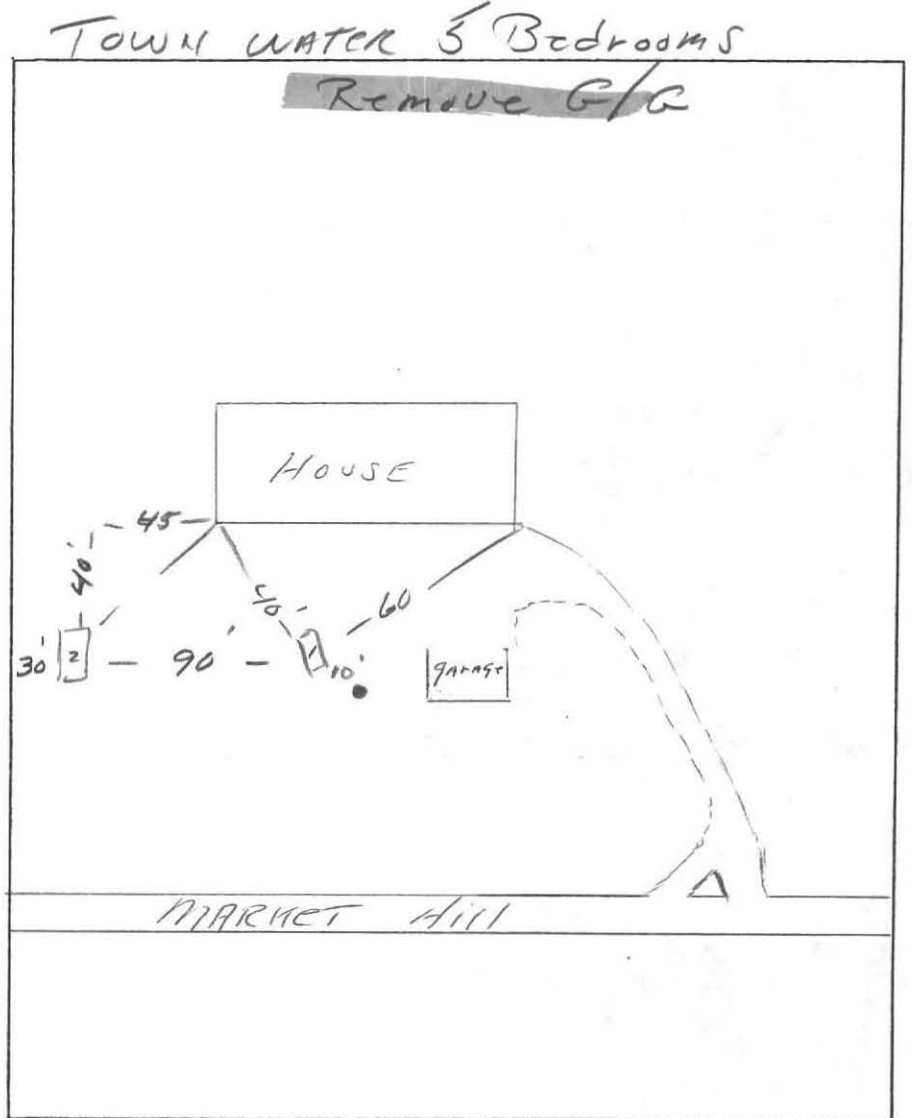
DATE 6/25/91 LOCATION 180 MARKET Hill LOT SIZE _____
 OWNER Louis Jenn Mudge ADDRESS c/o Sage + Sewer Elizabeth Miller TELE # 415-459-0626
 P.E./RS Rich Scott FIRM Same OBSERVED BY David Zarrilli
 BACK HOE OPERATOR (A1) HARL'S TELE 549-5396 BENCH MARK _____
 PERC DEPTH 48" PRE SOAK TIME P:27 PERC DEPTH _____ PRE SOAK TIME _____
 TEST 12" 8:27 _____
9" 8:28:30 _____
6" 8:30 30 _____
 RATE (2) RATE _____

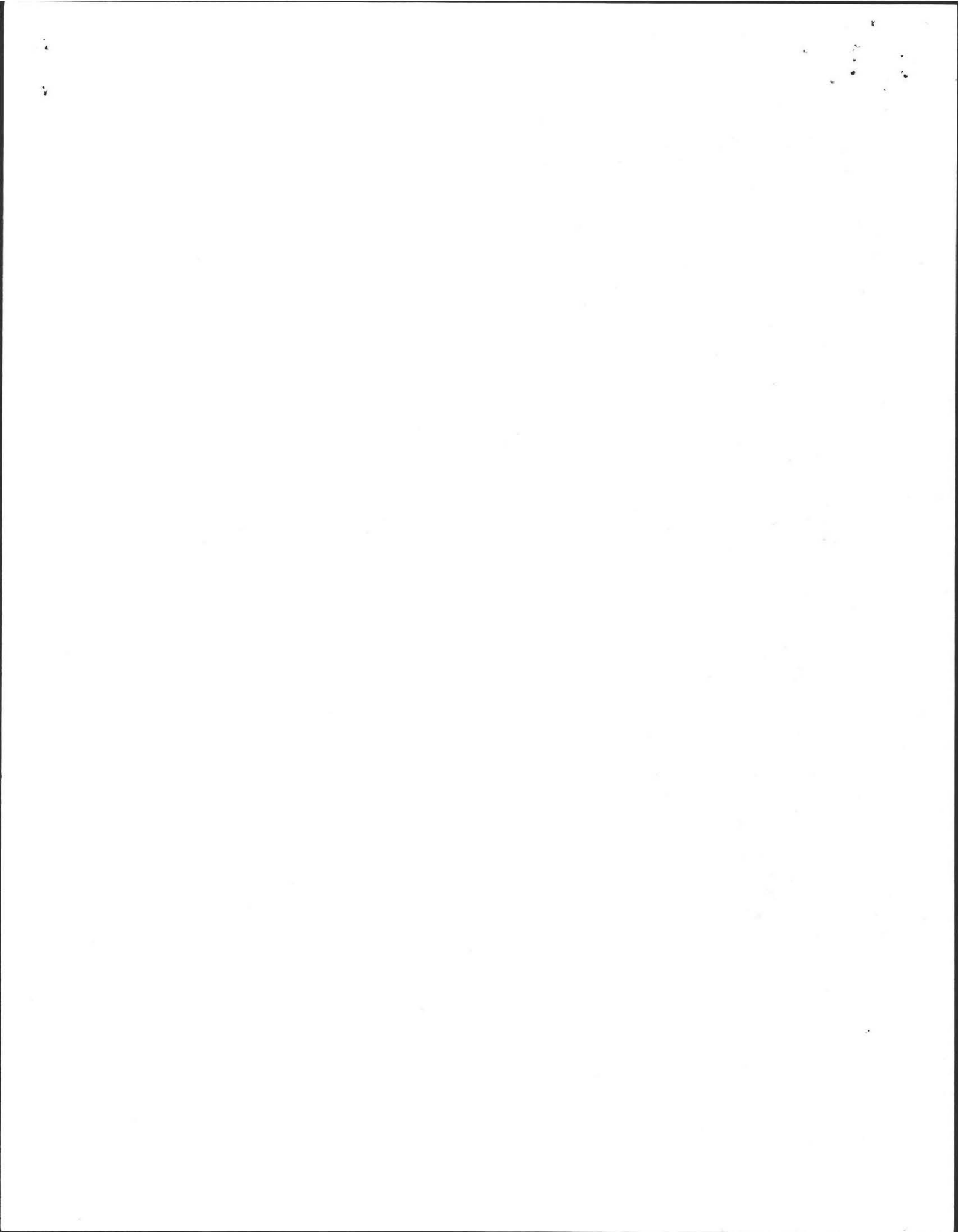
#1

TOP 4	TOP 6
SUB 18	SUB 18
Gravel Till w/lines 18'	Gravel Till w/lines
Compacted	
Till w/1/2	Dry 11
DRY	

TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB





No. 91-9

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

OF

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: 180 MARKET HILL ROAD
Owner: JEAN & LEWIS MUDGE
Installer: KARL'S EXCAVATING
or Lot No.: 180 MARKET HILL RD. AMHERST, MA. 01002
Address: RIVER ROAD HADLEY, MA. 01035

Type of Building: Dwelling No. of Bedrooms: 5 Expansion Attic (No) 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: 550 gallons.
Septic Tank Liquid capacity: 1000 gallons Length: 102 Width: 58 Diameter: - Depth: 55"
Disposal Trench - No. _____ Width: _____ Total Length: _____ Total leaching area: _____ sq. ft.
Seepage Pit No. 1 Diameter: 10' x 14' Depth below inlet: 60" Total leaching area: 840 sq. ft.
Other Distribution box (No) _____ Dosing tank (No) _____ Pump Chamber (YES) _____
Percolation Test Results Performed by: R. SCOTT, P.E. WITNESS: D. ZAROZNSKI, BOFH Date: 6-25-91
Test Pit No. 1: 2 minutes per inch Depth of Test Pit: 126" Depth to ground water: DRY
Test Pit No. 2: _____ minutes per inch Depth of Test Pit: 132" Depth to ground water: DRY

Description of Soil: PIT #1 TO 4" TOPSOIL; TO 18" SUBSOIL; TO 78" GRAVEL TILL W/ FINES & 1-6" STONES; TO 126" DEPTH IMPERMEABLE CEMENTED TILL. PIT #2 TO 6" TOPSOIL; TO 18" SUBSOIL; TO 132" DEPTH GRAVEL TILL W/ FINES & 1-6" STONES.
Nature of Repairs or Alterations - Answer when applicable: BUILDING SEWER & TANK TO REMAIN. INSTALL NEW PUMP CHAMBER & CONTROLS, PIPING & LEACH PIT.

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: Jean & Lewis Mudge Date: 7/26/91
Application Approved By: David J. Giacchetti for Robert Seal Date: 7/26/91
Application Disapproved for the following reasons: _____

Permit No. 91-9 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 KARL'S Installer at 180 MARKET HILL ROAD 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. 91-9 dated _____

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

DATE: Aug 12, 1991 Inspector: David Giacchetti for Robert Seal

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

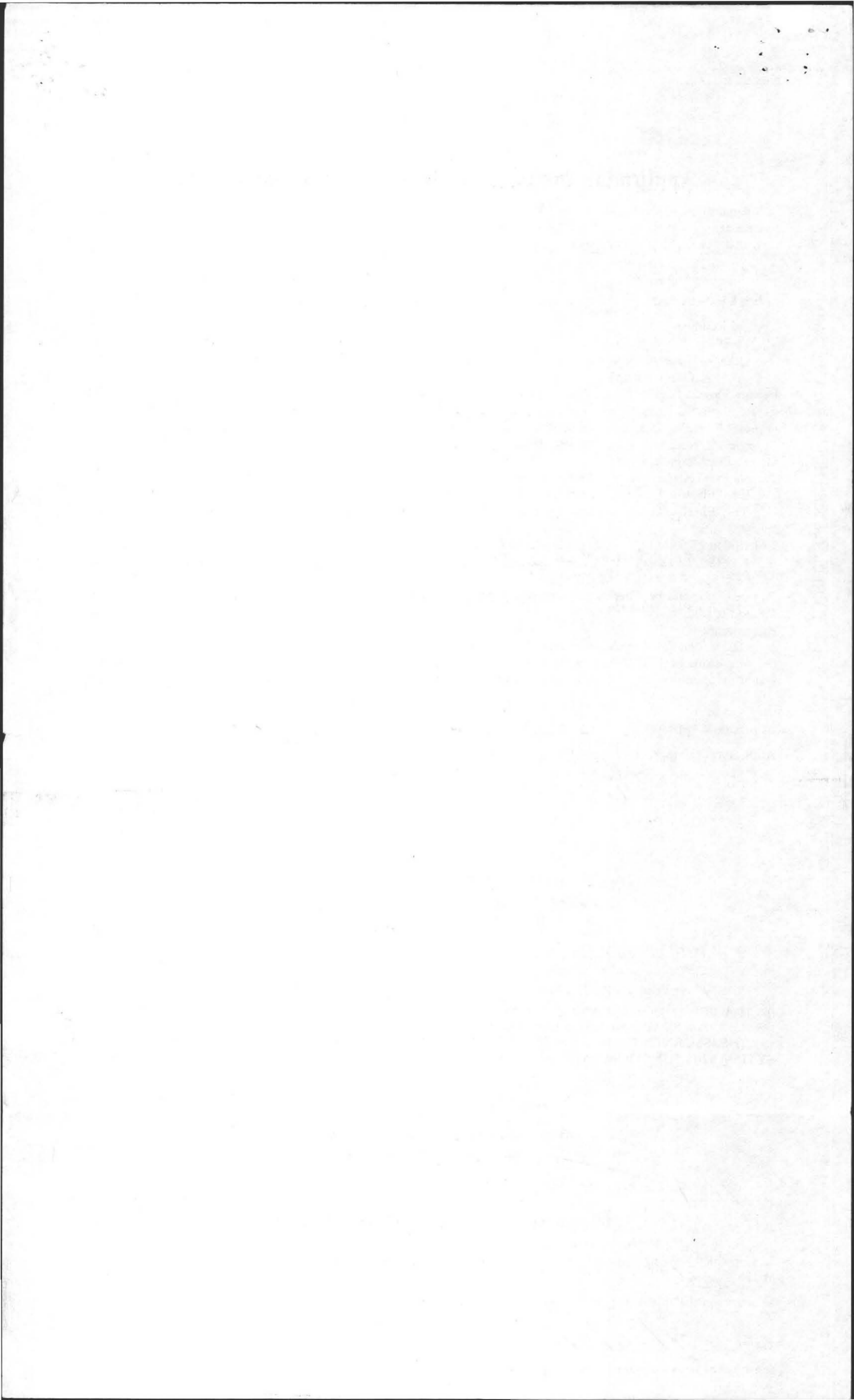
No. 91-9 Town OF Amherst FEE: 160.00

Disposal Works Construction Permit

Permission is hereby granted LEWIS MUDGE to Construct () or Repair () an Individual Sewage Disposal System at No. 180 MARKET HILL ROAD

as shown on the application for Disposal Works Construction Permit No. 91-9 Dated: 7/26/91
DATE: 7/26/91 Board of Health: David Giacchetti for Robert Seal

CHECK OR FILL IN WHERE APPLICABLE



SYSTEM DESIGN CALCULATIONS

5 BEDROOM X 110 GAL. PER BR PER DAY =
= 550 GAL. PER DAY DESIGN FLOW.

MINIMUM EFFECTIVE SEPTIC TANK VOLUME = $1.5 \times 550 = 825$ GAL.

SPECIFIED TANK VOLUME FOR THIS INSTALLATION = 1000 GAL. (EXISTING)

PERCOLATION RATE = 2 MINUTES PER INCH →

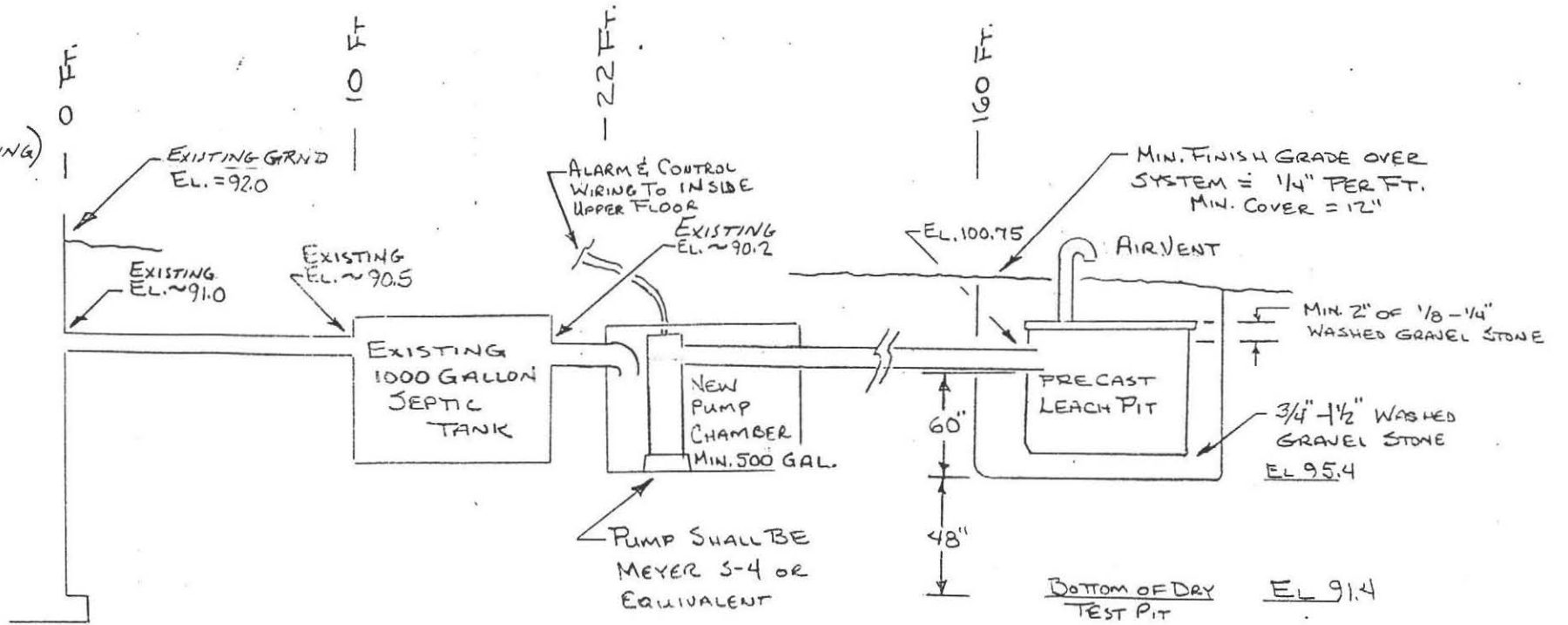
DESIGN LOADING = 2.50 GPD PER SQ. FT. OF EFFECTIVE
SIDEWALL & 1.00 GPD PER SQ. FT. OF BOTTOM AREA.

SPECIFIED LEACH PIT IS 10.0 FT. WIDE X 14 FT. LONG
X 5.0 FT. EFFECTIVE DEPTH.

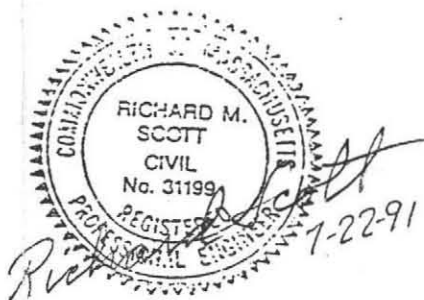
CONCRETE DRYWELL TANK IS 5.0 FT. WIDE X 10 FT. LONG
X 55" DEPTH BELOW INLET.

ALLOWABLE LOADING = $2(10+14)(5.0)(2.50) + 10 \times 14 \times 1.00$
= 740 GALLONS PER DAY

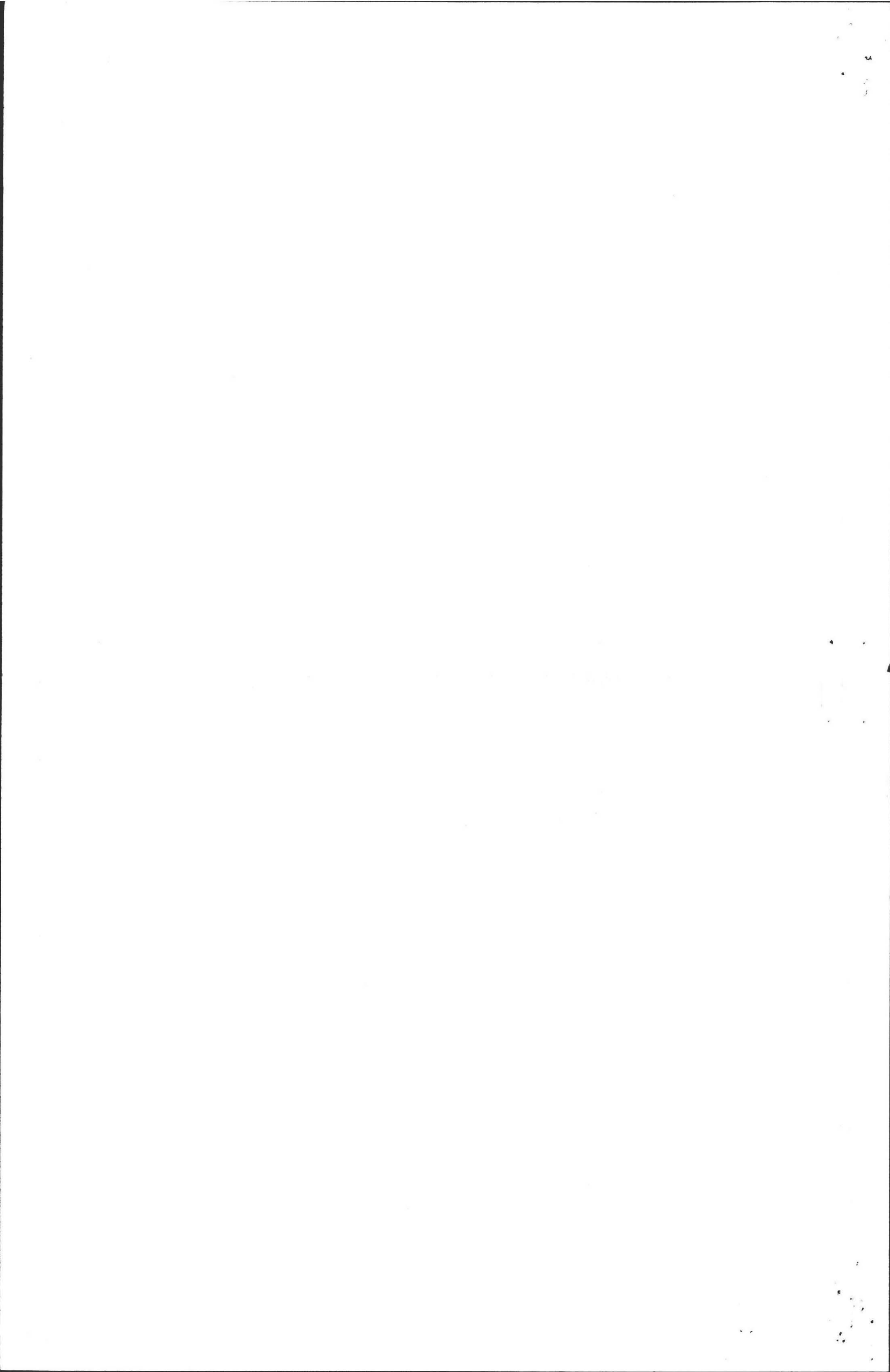
÷ 1.25 "AMHERST FACTOR" = 592 GPD
7550 - OKAY



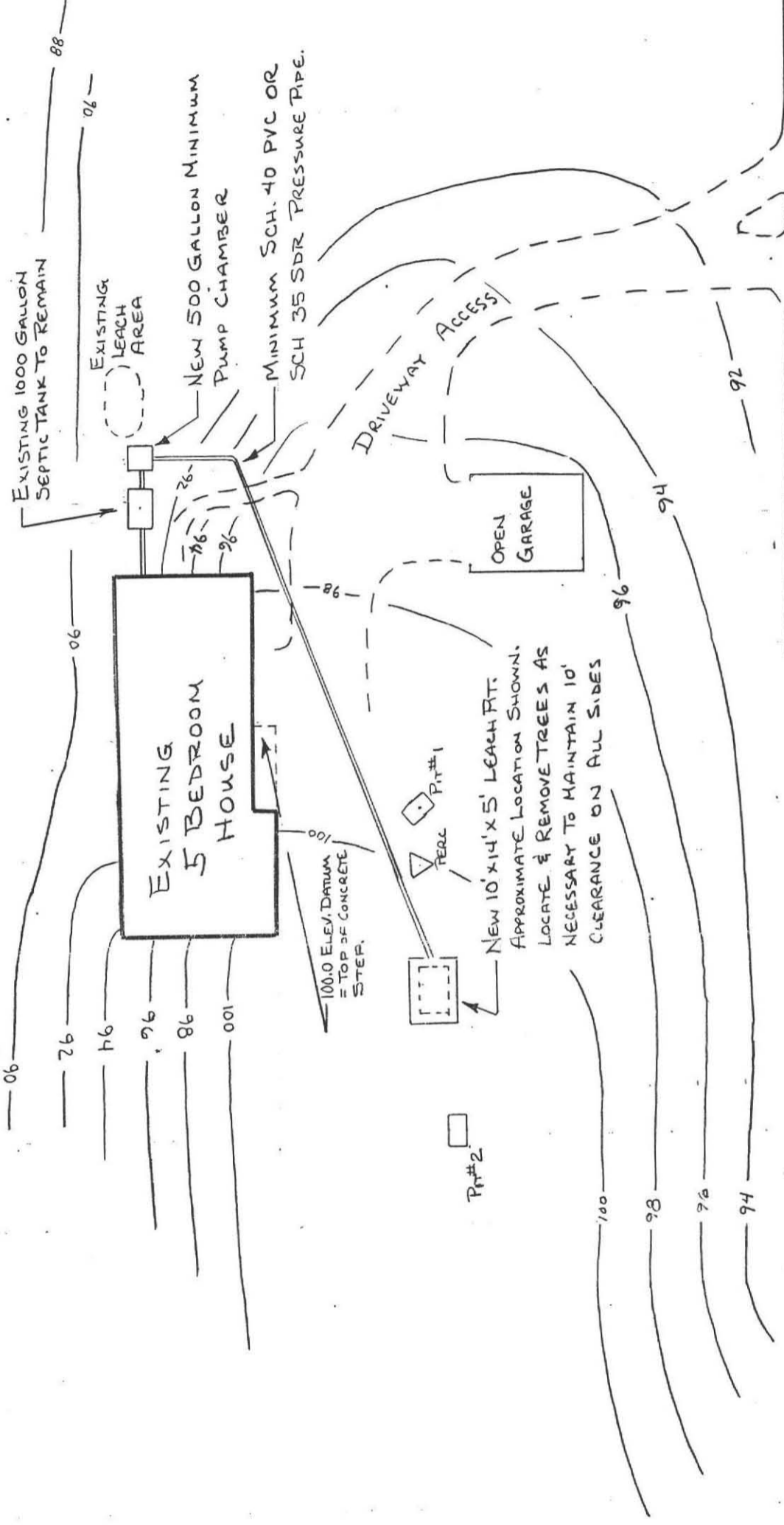
SYSTEM PROFILE - SECTION PARALLEL TO FLOW
(NOT TO SCALE)



SEPTIC SYSTEM DESIGN		
AT 180 MARKET HILL ROAD		
SCALE: N.T.S.	APPROVED BY:	DRAWN BY RMS
DATE: 7-22-91		REVISED
FOR: JEAN & LEWIS MUDGE		
BY: RICHARD SCOTT, P.E.		
		DRAWING NUMBER

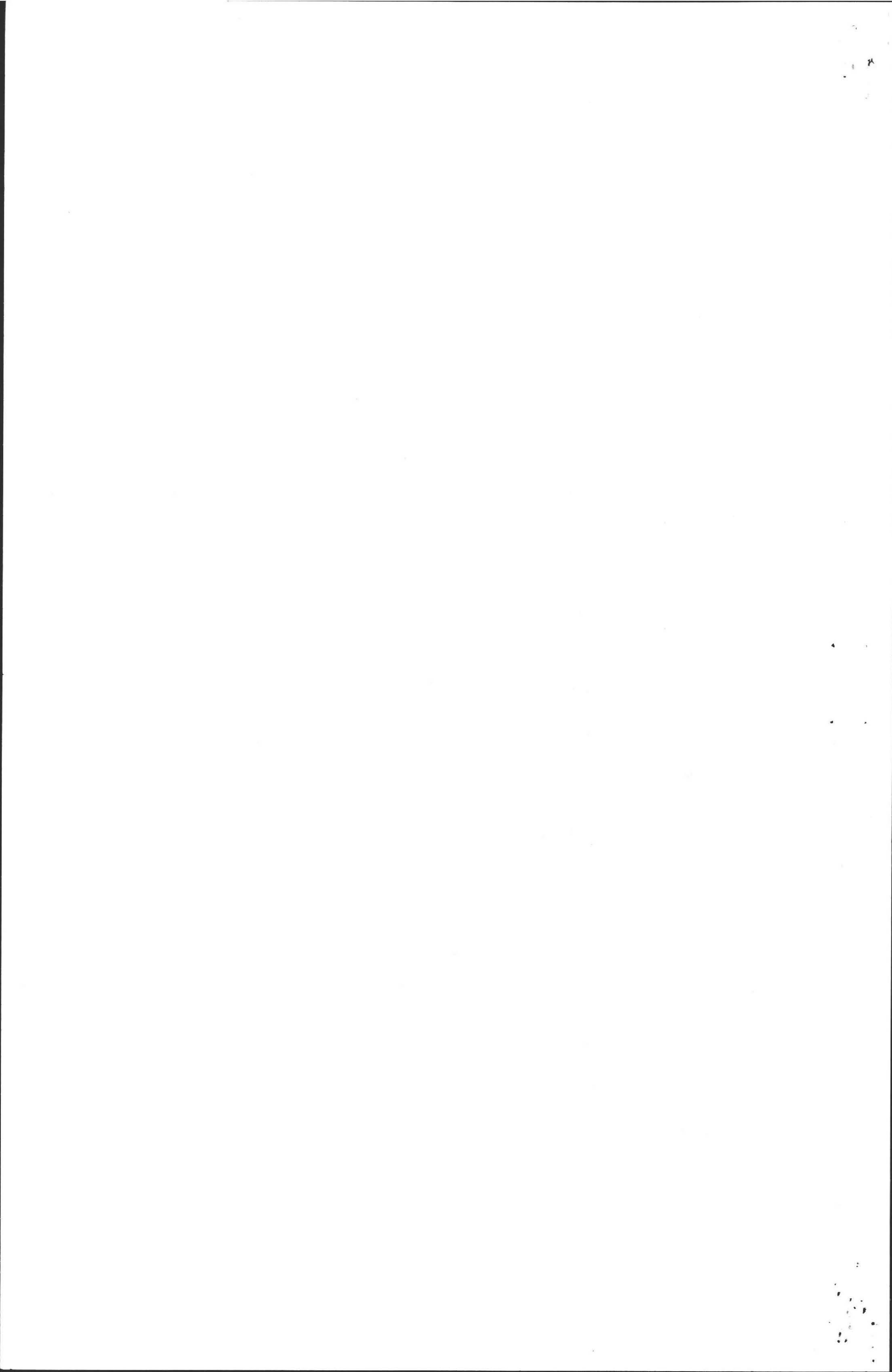


FINISH CONTOURS APPROXIMATE EXISTING



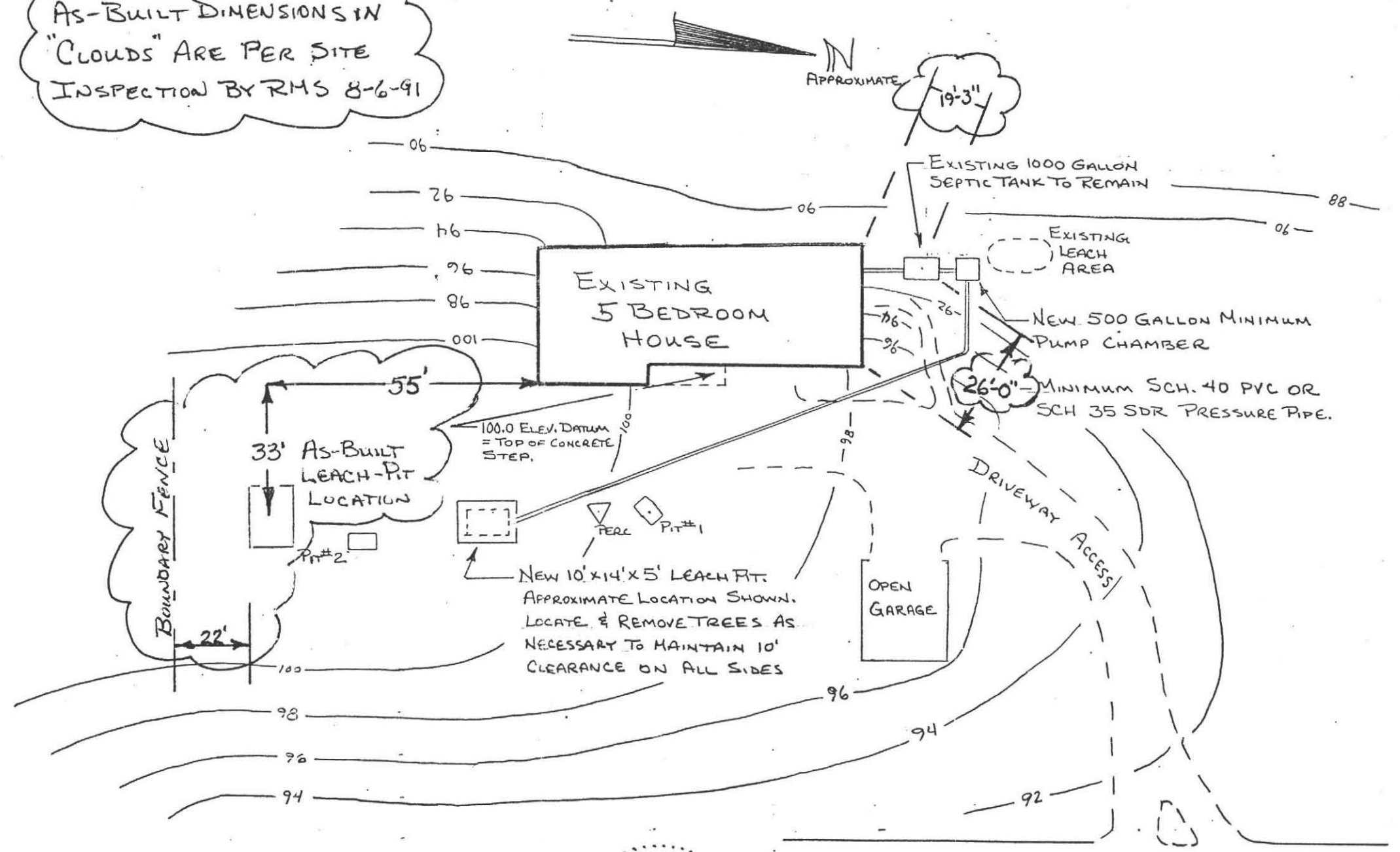
MARKET HILL ROAD

SEPTIC SYSTEM DESIGN		DRAWN BY RMS	
AT 180 MARKET HILL ROAD, AMHERST		REVISED	
SCALE: 1" = 30'	APPROVED BY:		
DATE: 7-22-91			
FOR: JEAN & LEWIS MUDGE			
BY: RICHARD SCOTT, P.E.			
		DRAWING NUMBER	



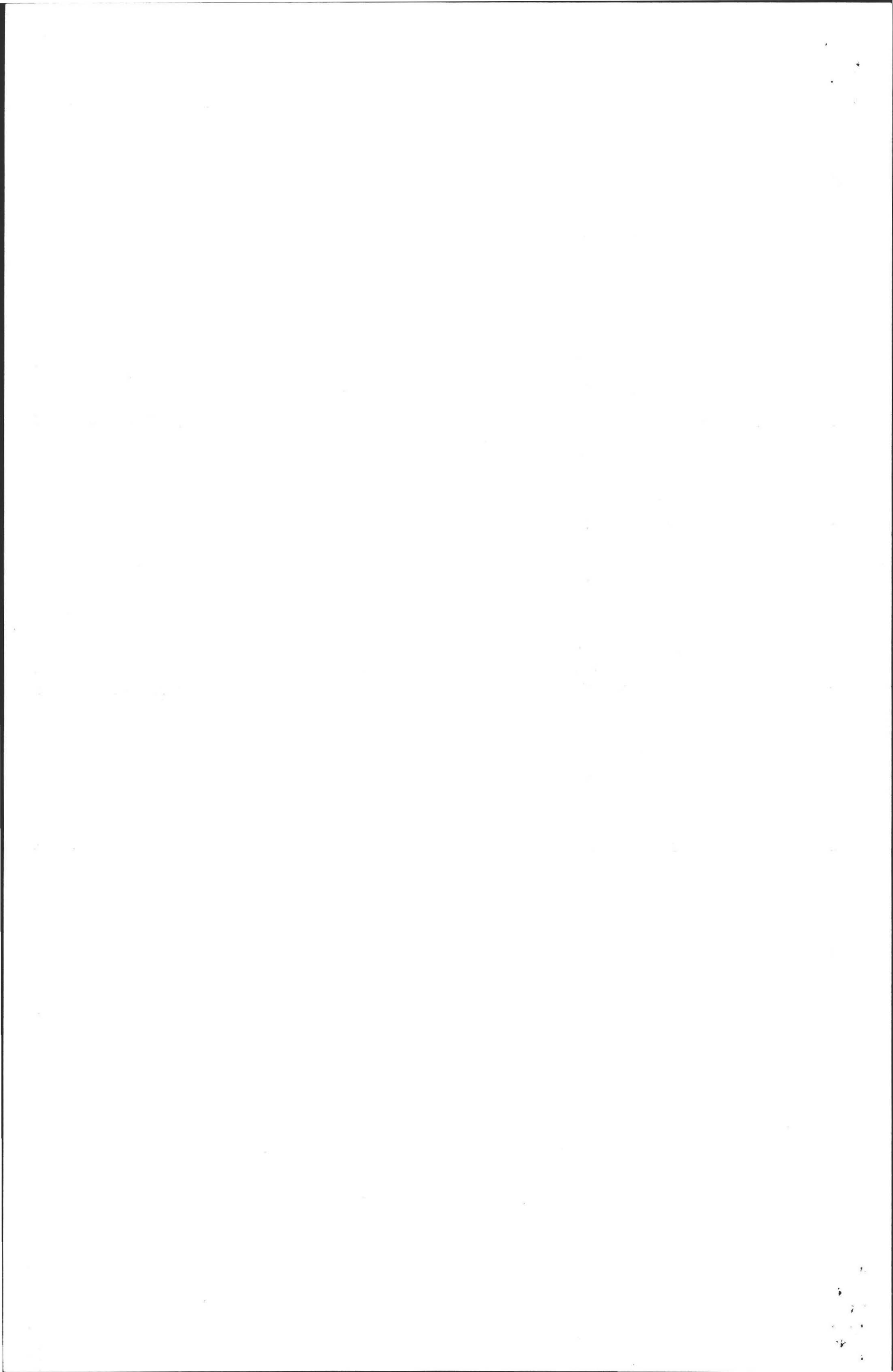
FINISH CONTOURS APPROXIMATE EXISTING

AS-BUILT DIMENSIONS IN "CLOUDS" ARE PER SITE INSPECTION BY RMS 8-6-91



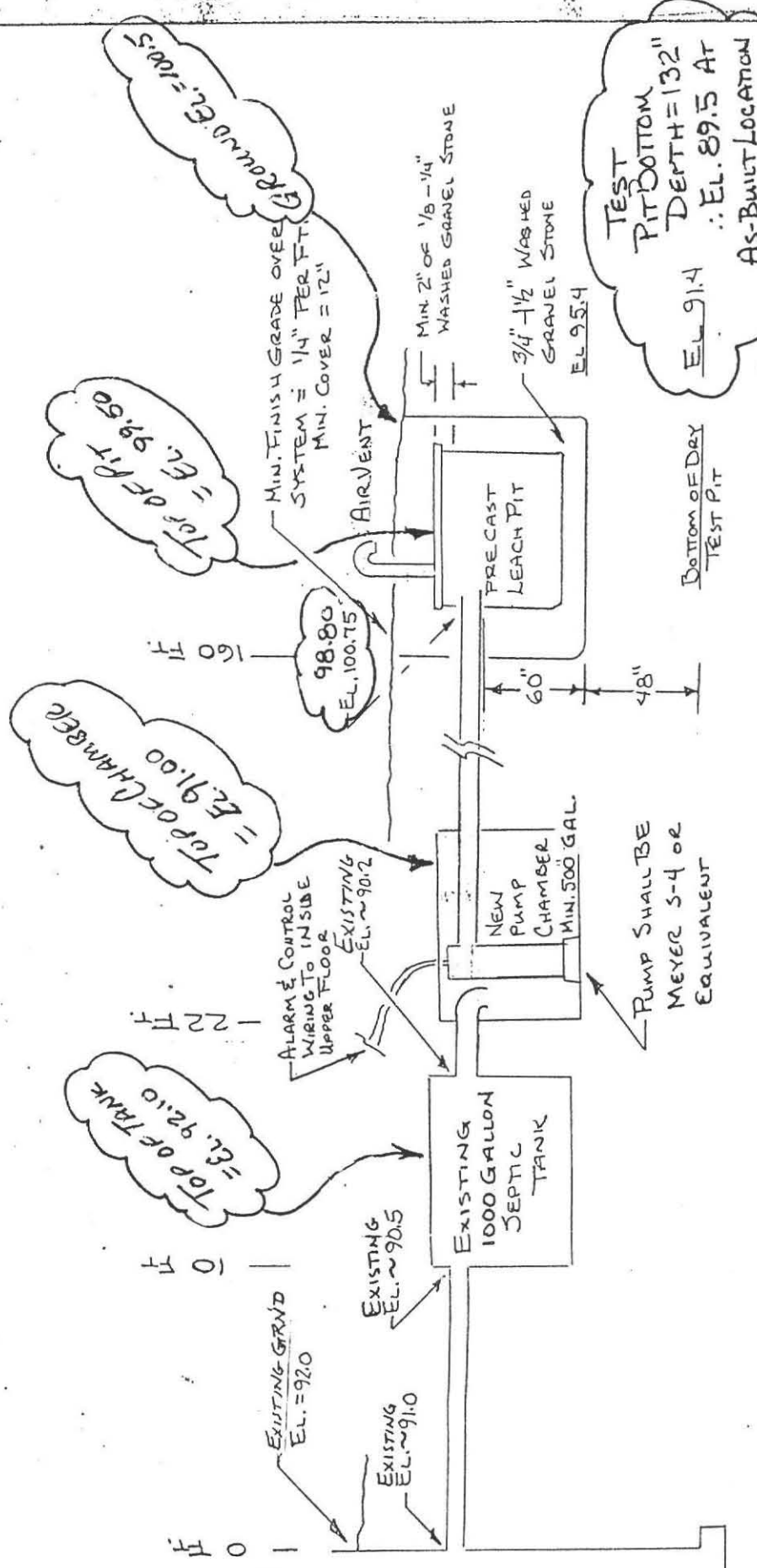
RICHARD M. SCOTT
 CIVIL
 No. 31199
 REGISTERED PROFESSIONAL ENGINEER
 7-22-91

MARKET HILL ROAD		
SEPTIC SYSTEM DESIGN AT 180 MARKET HILL ROAD, AMHERST		
SCALE: 1" = 30'	APPROVED BY:	DRAWN BY RMS
DATE: 7-22-91		REVISED
FOR: JEAN & LEWIS MUDGE		
BY: RICHARD SCOTT, P.E.		
		CRAWING NUMBER



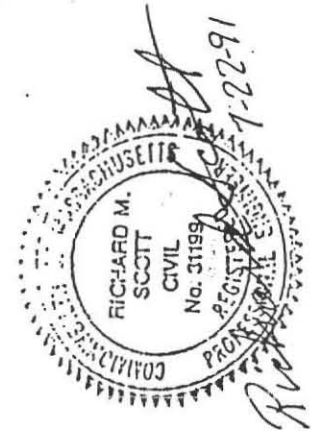
SYSTEM DESIGN CALCULATIONS

5 BEDROOM X 110 GAL. PER BR PER DAY = 550 GAL. PER DAY DESIGN FLOW.
 MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 X 550 = 825 GAL.
 SPECIFIED TANK VOLUME FOR THIS INSTALLATION = 1000 GAL. (EXISTING)
 PERCOLATION RATE = 2 MINUTES PER INCH →
 DESIGN LOADING = 2.50 GPD PER SQ. FT. OF EFFECTIVE SIDEWALL & 1.00 GPD PER SQ. FT. OF BOTTOM AREA.
 SPECIFIED LEACH PIT IS 10.0 FT. WIDE X 14 FT. LONG X 5.0 FT. EFFECTIVE DEPTH.
 CONCRETE DRYWELL TANK IS 5.0 FT. WIDE X 10 FT. LONG X 55" DEPTH BELOW INLET.
 ALLOWABLE LOADING = $2(10+14)(5.0)(2.50) + 10 \times 14 \times 1.00$
 = 740 GALLONS PER DAY
 $\div 1.25$ "AMHERST FACTOR" = 592 GPD
 > 550 - OKAY



SYSTEM PROFILE - SECTION PARALLEL TO FLOW
 (NOT TO SCALE)

AS-BUILT ELEVATIONS IN "CLOUDS" ARE PER SITE INSPECTION BY RMS 8-6-91



SEPTIC SYSTEM DESIGN	
AT 180 MARKET HILL ROAD	
SCALE: N.T.S.	APPROVED BY:
DATE: 7-22-91	
FOR: JEAN & LEWIS MUDGE	
BY: RICHARD SCOTT, P.E.	
DRAWN BY RMS	REVISIONS
DRAWING NUMBER	

