316 LEVERETT RD. Lot #4
pending 87-17

#316

No. 87-17 CK # 2457 FEE $90

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

COMMONWEALTH OF MASSACHUSETTS RICHARD M. SCOTT CIVIL No. 31139 REGISTERED PROFESSIONAL ENGINEER

Richard M. Scott 6-8-87

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

316 LEVERETT RD. LOT #4
Location - Address or Lot No.

JEFFREY WOOD 312 LEVERETT RD. AMHERST
Owner Address

L&F CONSTRUCTION LEVERETT
Installer Address

Type of Building Size Lot 300,000 Sq. feet

Dwelling ✓ No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (No)

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

Other fixtures .....

Design Flow 110 gallons per ~~person~~ Bedroom per day. Total daily flow 440 gallons.

Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter ..... Depth .....

Disposal Trench ✓ No. 3 Width 3' Total Length 90' Total leaching area 873 sq. ft.

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

Other Distribution box (Yes) Dosing tank (No)

Percolation Test Results Performed by R. SCOTT, P.E. WITNESS: C.E. DRAKE, AMHERST B OF H. Date 12-17-86

Test Pit No. 1 15 minutes per inch Depth of Test Pit 114" Depth to ground water DRY

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

Description of Soil 0 TO 6" TOPSOIL; TO 18" SUBSOIL; TO DEPTH SANDY TILL W/ FINES

PRIVATE WATER SUPPLY TO BE 150' FROM SEWAGE DISPOSAL SYSTEM.

Nature of Repairs or Alterations — Answer when applicable .....

Agreement:

The undersigned agrees to install the aforedescribed 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 Jeffrey Wood Jun 18, 1987 Date

Application Approved By C.E. Drake 6/18/87 Date

Application Disapproved *for the following reasons:* .....

Permit No. 87-17 Issued 6-18-87 Date

CHECK OR FILL IN WHERE APPLICABLE

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. 87-17 TOWN OF AMHERST FEE $90

Disposal Works Construction Permit

Permission is hereby granted JEFF. WOOD by L&F CONSTRUCTION to Construct (X) or Repair ( ) an Individual Sewage Disposal System at No. LOT 4 OFF LEVERETT RD
Street

as shown on the application for Disposal Works Construction Permit No. 87-17 Dated 6-8-87

DATE 6-18-87 C.E. Drake
Board of Health

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

No..... FEE.....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

.....OF.....

Application for Disposal Works Construction Permit

COMMONWEALTH OF MASSACHUSETTS RICHARD M. SCOTT CIVIL No. 31139 REGISTERED PROFESSIONAL ENGINEER 6-8-87

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

316 LEVERETT RD. LOT #4 .....
Location - Address or Lot No.

JEFFREY WOOD ..... 312 LEVERETT RD. AMHERST
Owner Address

L & F CONSTRUCTION ..... LEVERETT
Installer Address

Type of Building Size Lot 300,000 Sq. feet

Dwelling ✓ No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (No)

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

Other fixtures .....

Design Flow 110 gallons per ~~person~~ Bedroom per day. Total daily flow 440 gallons.

Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter..... Depth.....

Disposal Trench ✓ No. 3 Width 3' Total Length 90' Total leaching area 873 sq. ft.

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

Other Distribution box (Yes) Dosing tank (No)

Percolation Test Results Performed by R. Scott, P.E. Witness: C.E. Drake, Amherst B of H. Date 12-17-86

Test Pit No. 1 15 minutes per inch Depth of Test Pit 114" Depth to ground water DRY

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

Description of Soil 0 to 6" TOPSOIL; TO 18" SUBSOIL; TO DEPTH SANDY TILL w/ FINES

Nature of Repairs or Alterations — Answer when applicable.....

CHECK OR FILL IN WHERE APPLICABLE

Agreement:

The undersigned agrees to install the aforedescribed 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

.....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

.....OF.....

No..... FEE.....

Disposal Works Construction Permit

Permission is hereby granted.....

to Construct ( ) or Repair ( ) an Individual Sewage Disposal System

at No.....
Street

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

.....
Board of Health

DATE.....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

OBSERVATION PITS

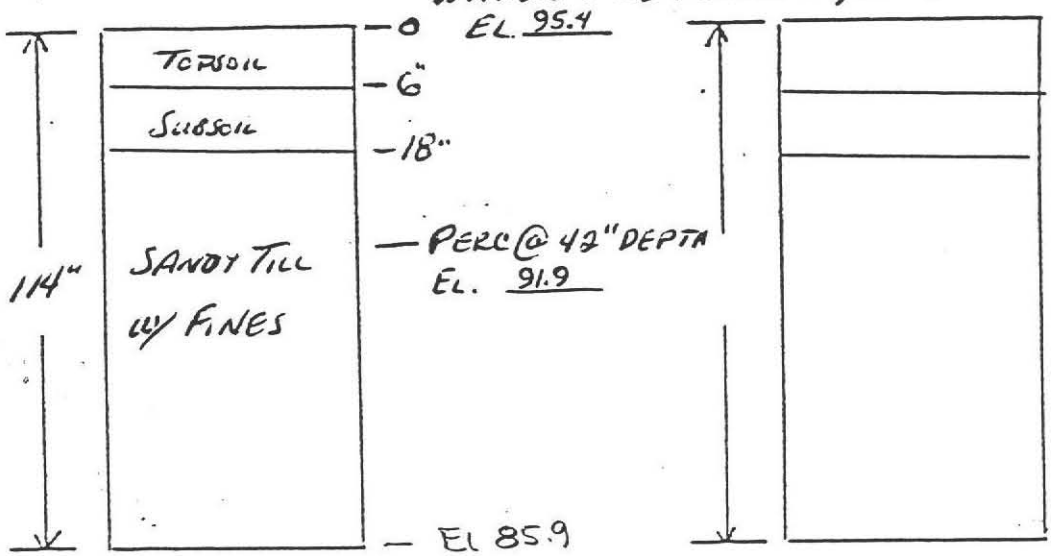
REQUESTED BY: JEFFREY WOOD

LOCATION: LOT #4
LEVERETT RD. AMHERST

MAILING ADDRESS: 312 LEVERETT RD. AMHERST, MA. 01002

DATE: 12-17-86 OBSERVER: RICHARD SCOTT

WITNESS: C.E. DRAKE, AMHERST B.O.H.



COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
4-7-8

Groundwater DRY

Perc Rate 14 MIN./INCH

Groundwater _____

Perc Rate _____

START SOAK @ 12:16 P.M.
START TEST @ 12:32
TO 10" @ 12:42
TO 9" @ 12:51 (< 30 OKAY)
8" @ 1:01
7" @ 1:14
6" @ 1:30

$\frac{39 \text{ MIN}}{3 \text{ IN}}$ = 13 MIN./INCH
(DESIGN @ 15 MIN.)

Groundwater _____

Perc Rate _____

Groundwater _____

Perc Rate _____

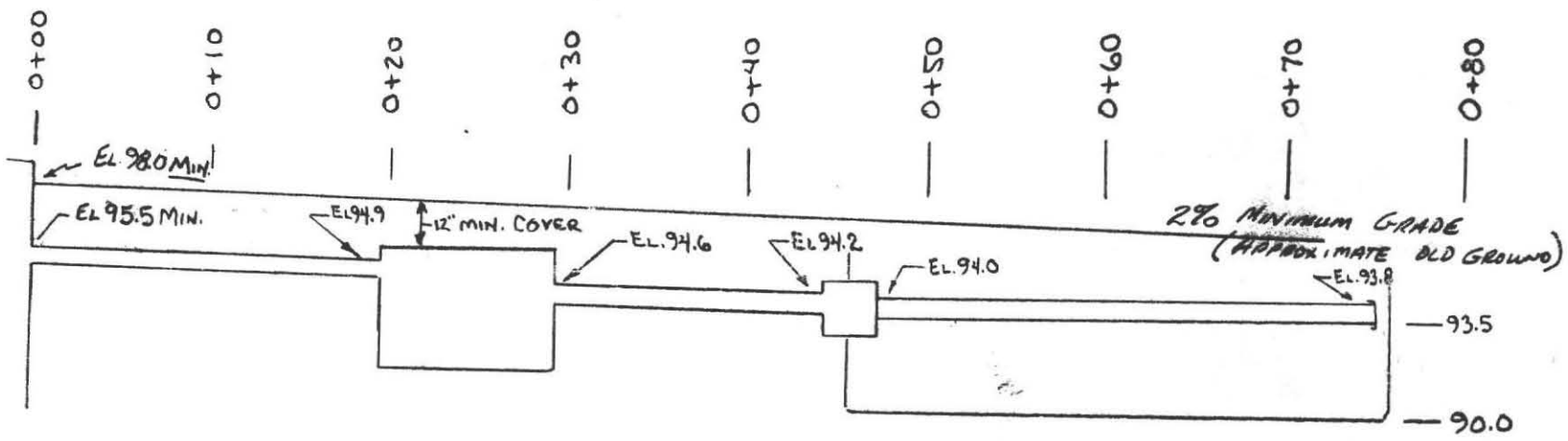
SYSTEM DESIGN CALCULATIONS

4 BEDROOM x 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

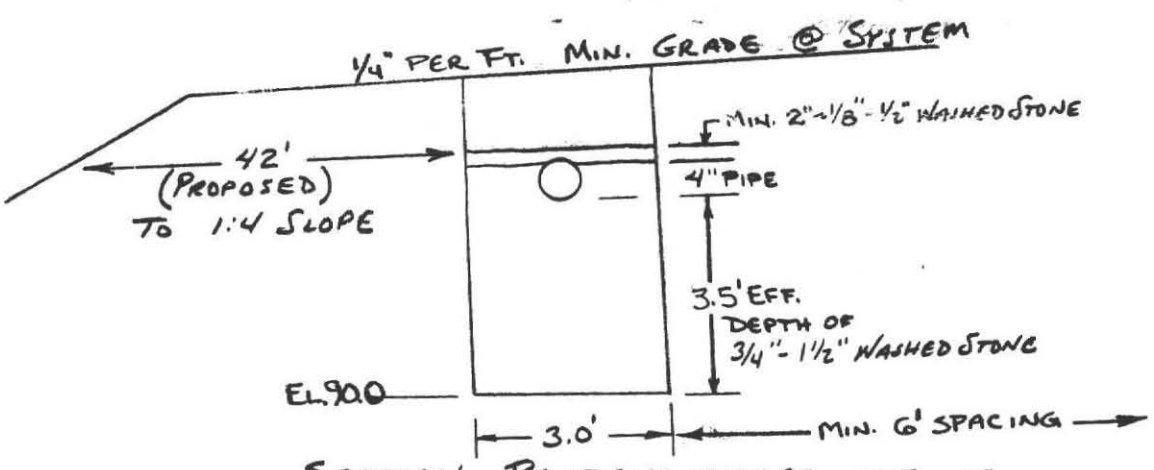
MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 x 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 15 MINUTES PER INCH → DESIGN LOADING =
= 0.43 GALLONS PER SQ. FT. OF BOTTOM AREA AND 0.66 GALLONS PER SQ. FT. OF SIDEWALL AREA. LEACH FACILITY SIZING IS BASED ON 440 GPD x 1.25 AMHERST FACTOR = 550 GPD.

LEACH TRENCHES 3.0 FT WIDE x 3.5' EFFECTIVE DEPTH.
ALLOWABLE LOADING PER FT. OF TRENCH = (3' x 1') x 0.43 + 2x(3.5 x 1') x 0.66 =
= 5.91 GPD PER FT. OF TRENCH. LENGTH OF TRENCH REQ'D = 550 ÷ 5.91 = 93' (4% ENDS)
TRENCH SPECIFIED = 3 x 30' TOTAL CAPACITY = 90 x 5.91 + 6 x 3 x 3.5 x .66 = 573 GPD ✓

SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS DEQE STATE ENVIRONMENTAL CODE TITLE 5 AND TOWN OF AMHERST SUPPLEMENTAL REGULATIONS.



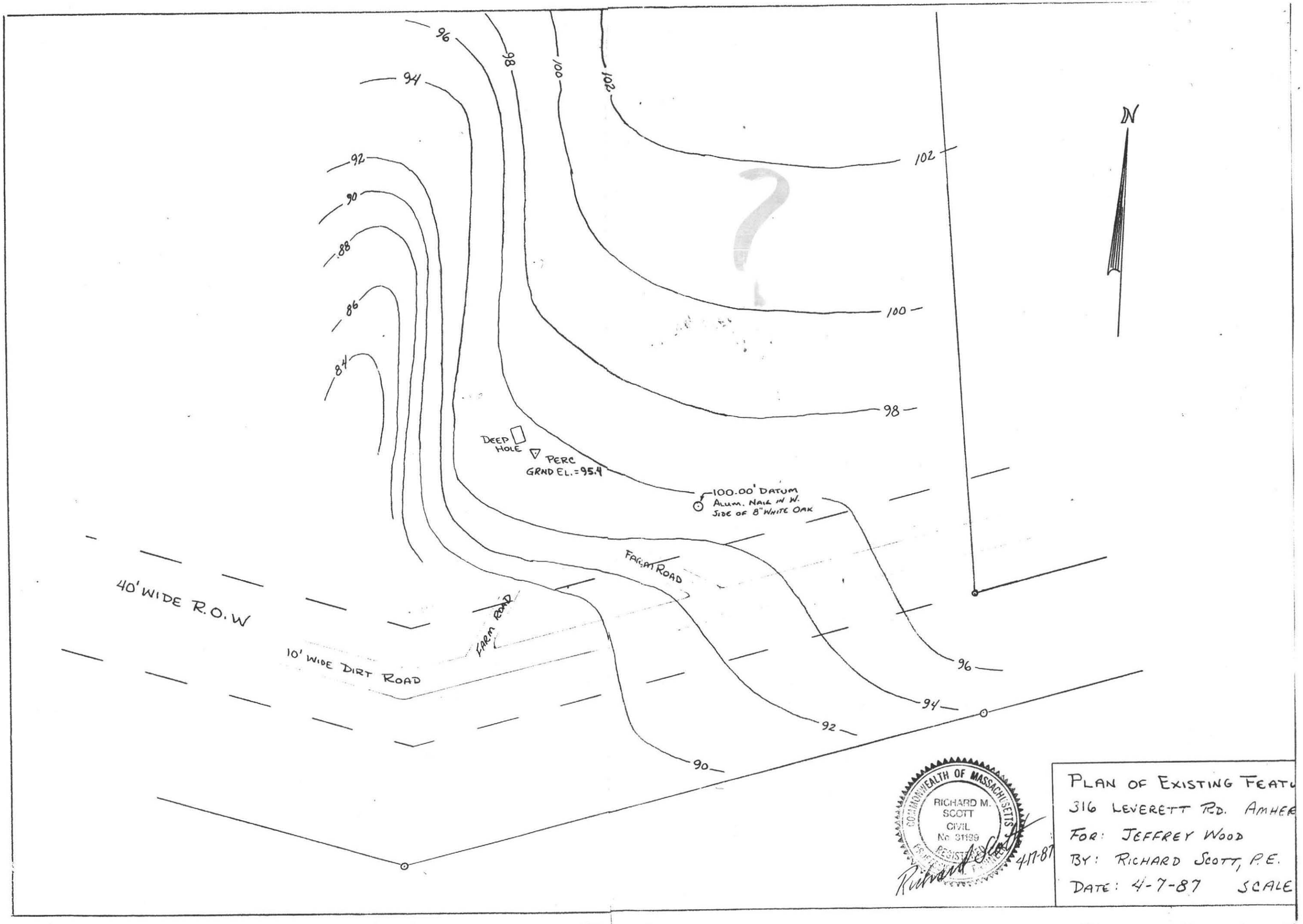
SYSTEM PROFILE ~ SECTION PARALLEL TO FLOW
SCALE: HORIZ: 1" = 10' VERT: N.T.S.



SECTION PERPENDICULAR TO FLOW
(TYPICAL TRENCH)

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-8-87

PROPOSED SEPTIC SYSTEM DESIGN
AT 316 LEVERETT ROAD (LOT #4)
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-8-87 SCALE: AS SHOWN
REV'D 6-8-87


96
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102
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84
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96
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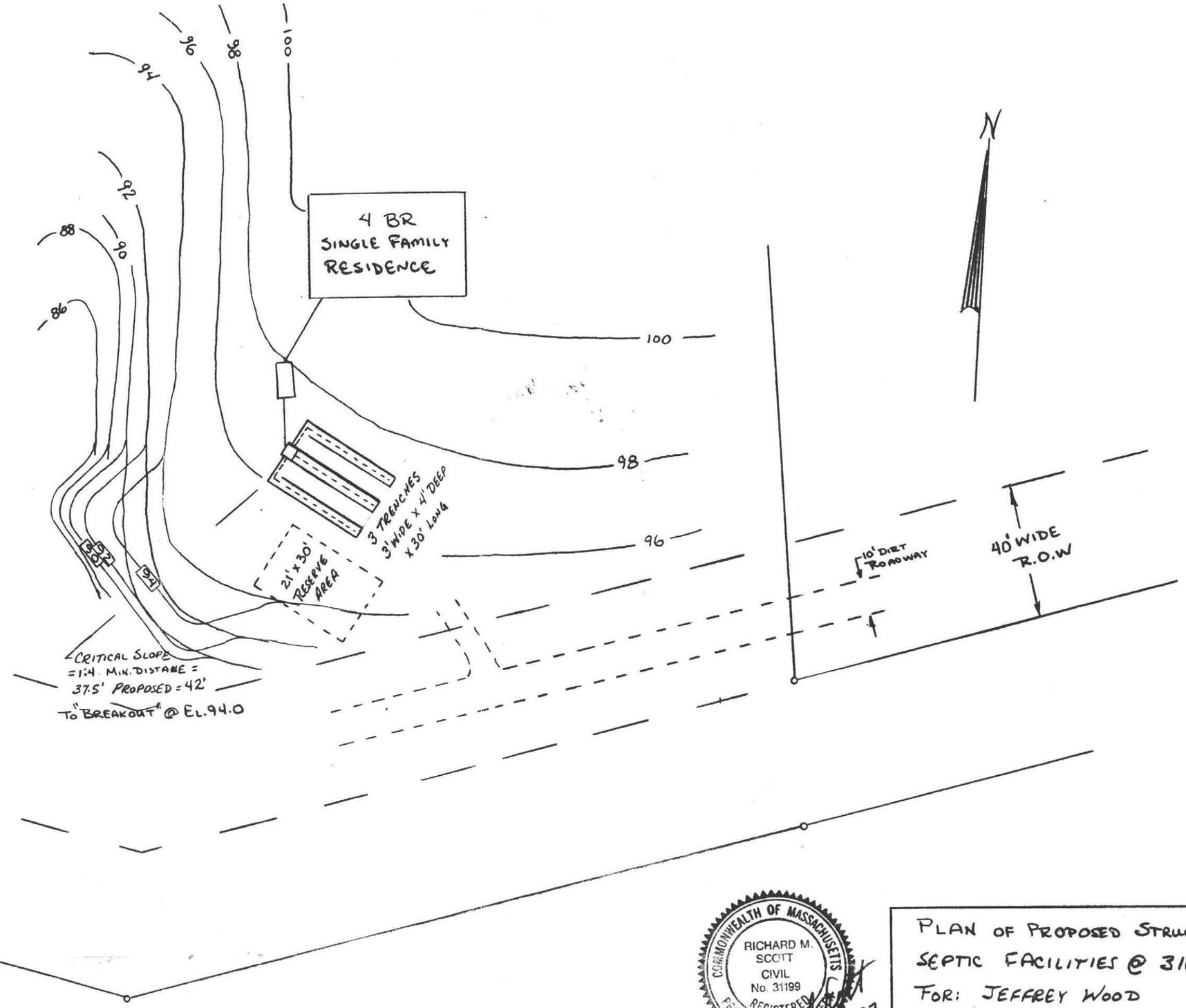
92
90
N
DEEP HOLE
PERC
GRND EL.=95.4
100.00' DATUM
ALUM. NAIL IN W. SIDE OF 8" WHITE OAK
FARM ROAD
FARM ROAD
40' WIDE R.O.W
10' WIDE DIRT ROAD
COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
4-17-87
PLAN OF EXISTING FEATU
316 LEVERETT RD. AMHER
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-7-87
SCALE

— 100 — EXISTING CONTOURS

—[94]— PROPOSED FINISH CONTOURS

WATER SUPPLY

FRONTAGE REQUIREMENT



COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-8-87

PLAN OF PROPOSED STRUCTURES &
SEPTIC FACILITIES @ 316 LEVERETT RD.
(LOT #4)
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-7-87 SCALE: 1" = 30'
REV'D 6-8-87

June 8, 1987

Board of Health
Town of Amherst
Main St.
Amherst, MA. 01002

Attn: Charles Drake

Subject: Septic System Design for "Lot 4" at Leverett Rd.
Owner: Jeffrey Wood

Dear Mr Drake:

A design was submitted in April for this lot. You had made some comments and Mr. Wood asked for a modification of the house location. These questions are apparently now all resolved. Enclosed are four copies of the complete sets. I have made revisions to the Application form, calculation sheet and proposed contours drawing. The other sheets I have photocopied again without change.

This now seems like a very workable arrangement. Please give me a call during the day at (617) 544-2511 if you have any questions or concerns. —Thanks

Sincerely,
Richard Scott

cc: Jeffrey Wood, w/ Encl.

Charlie,

I understand my call from Bill Van for Percs in Hadley was a result of your referral. Percs are done. Has gone well so far. Thank-You Rich

No. 87-17 JUN 18 1987 FEE 90.00

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

Richard Scott

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

316(?) LEVERETT RD. (Location - Address) or Lot No.

JEFFREY WOOD (Owner) 312 LEVERETT RD. AMHERST, MA. (Address)

L&F CONSTRUCTION (Installer) LEVERETT, MA. (Address)

Type of Building Size Lot 300,000 Sq. feet

Dwelling ✓ No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (No)

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

Other fixtures .....

Design Flow 110 gallons per ~~person~~ BEDROOM per day. Total daily flow 440 gallons.

Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter ..... Depth .....

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

Seepage Pit No. 1 Diameter 14' Depth below inlet 5' Total leaching area 924 sq. ft.

Other Distribution box (No) Dosing tank (No)

Percolation Test Results Performed by RICHARD SCOTT, P.E. WITNESS: C.E. DRAKE Date 12-17-86

Test Pit No. 1 15 minutes per inch Depth of Test Pit 114" Depth to ground water (DRY)

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

Description of Soil 0 TO 6" TOPSOIL; TO 18" SUBSOIL; TO DEPTH SANDY TILL.

Nature of Repairs or Alterations — Answer when applicable .....

Agreement:

The undersigned agrees to install the aforedescribed 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

CHECK OR FILL IN WHERE APPLICABLE

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

..... OF .....

No. ..... FEE .....

Disposal Works Construction Permit

Permission is hereby granted .....

to Construct ( ) or Repair ( ) an Individual Sewage Disposal System

at No. ..... (Street)

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

..... Board of Health

DATE .....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

OBSERVATION PITS

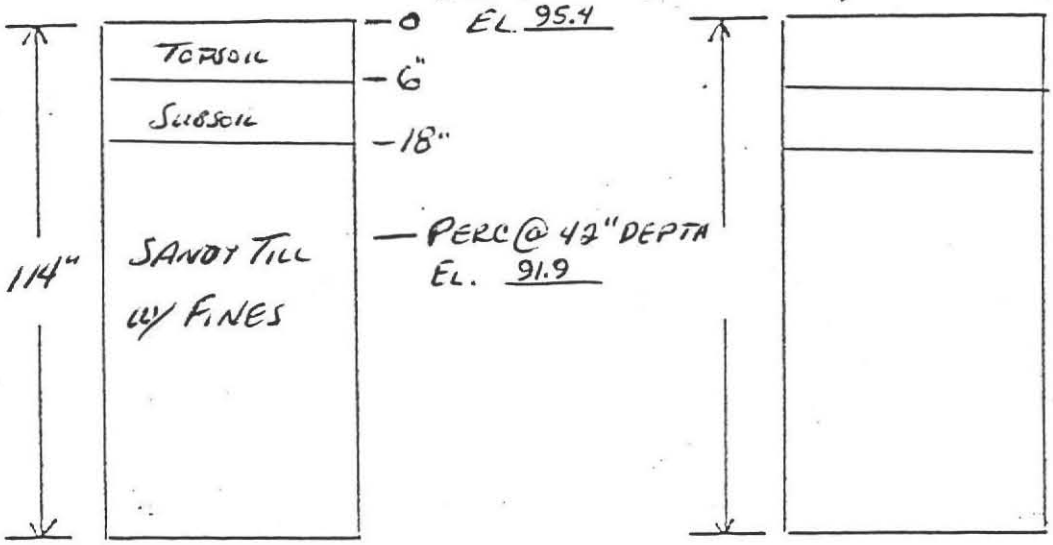
REQUESTED BY: JEFFREY WOOD

LOCATION: LOT #4
LEVERETT RD. AMHERST

MAILING ADDRESS: 312 LEVERETT RD. AMHERST, MA. 01002

DATE: 12-17-86 OBSERVER: RICHARD SCOTT

WITNESS: C.E. DRAKE, AMHERST B.O.H.

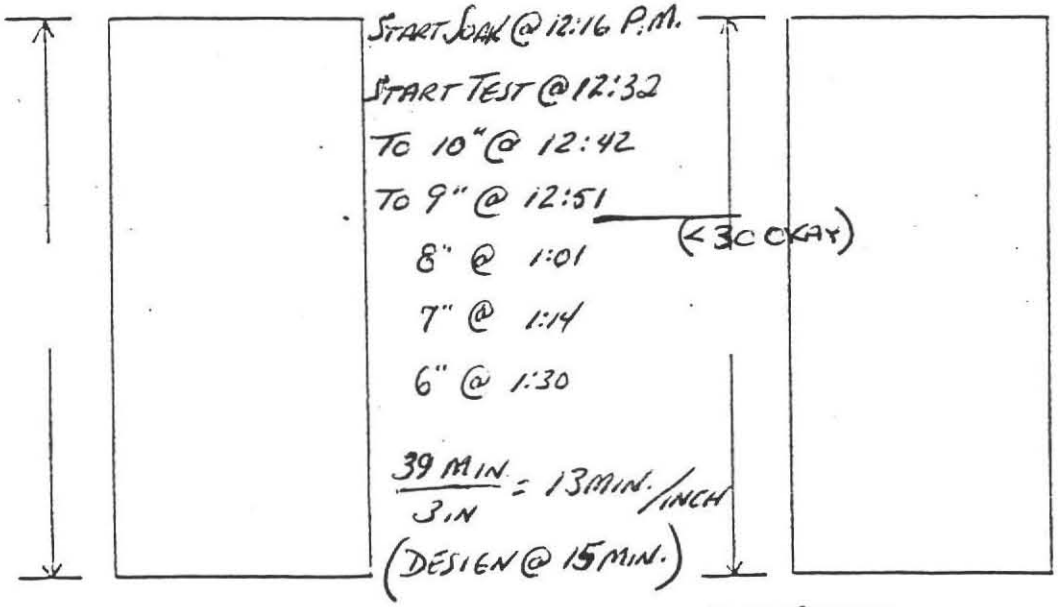


Groundwater DRY

Perc Rate 14 MIN./INCH

Groundwater _____

Perc Rate _____



Groundwater _____

Perc Rate _____

Groundwater _____

Perc Rate _____

SYSTEM DESIGN CALCULATIONS

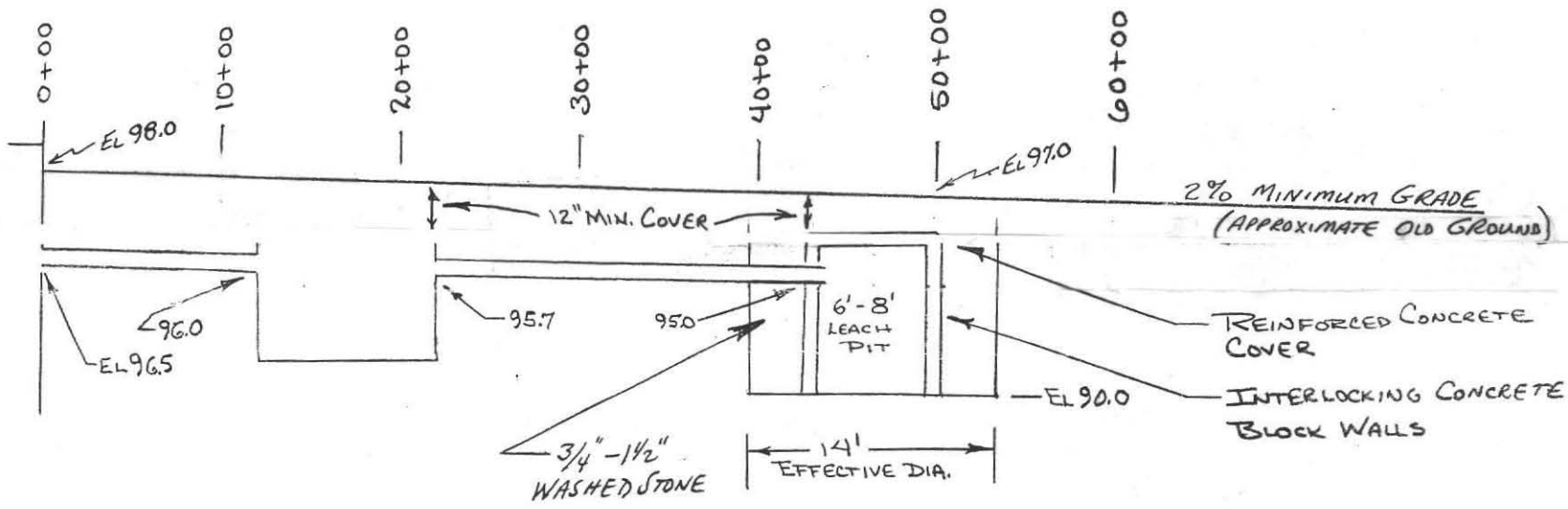
4 BEDROOM X 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 X 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 15 MINUTES PER INCH → DESIGN LOADING =
= 0.43 GALLONS PER SQ.FT. OF BOTTOM AREA AND 0.66 GALLONS PER SQ. FT. OF SIDEWALL AREA. LEACH FACILITY SIZING IS BASED ON 440 GPD X 1.25 AMHERST FACTOR = 550 GPD.

14' EFFECTIVE DIAMETER X 5.0' EFFECTIVE DEPTH LEACH PIT.

BOTTOM AREA = $\pi\left(\frac{14}{2}\right)^2$ = 154 SQ.FT. X 0.43 GAL/FT² = 66 GPD
SIDEWALL AREA: 154 X 5.0 = 770 SQ.FT. X 0.66 GAL/FT² = 508 GPD
TOTAL CAPACITY = 574 GPD > 550 ✓

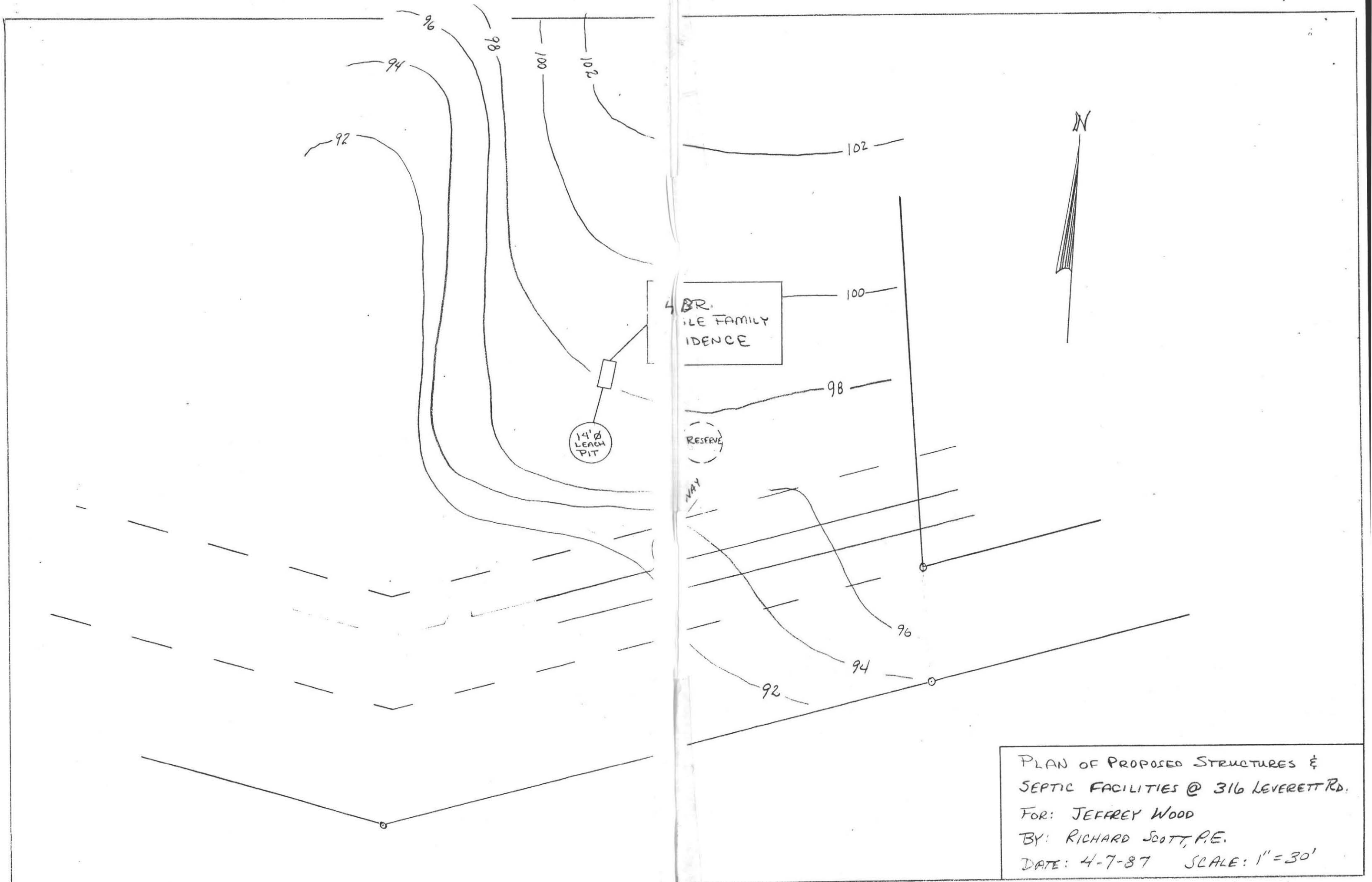
SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS D.E.Q.E. STATE ENVIRONMENTAL CODE TITLE 5.



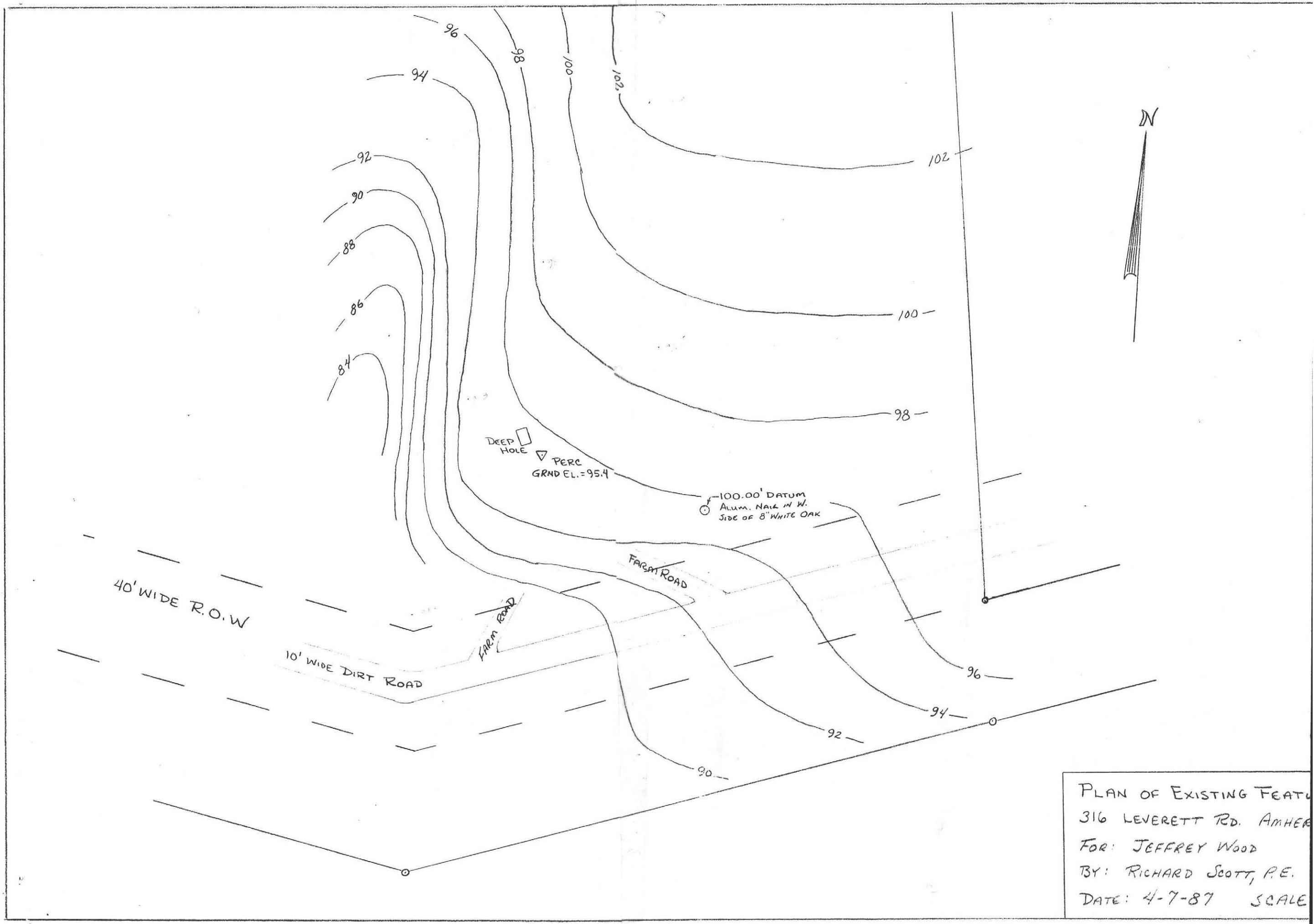
SYSTEM PROFILE ~ SECTION PARALLEL TO FLOW
SCALE: HORIZ: 1" = 10' VERT: N.T.S.

95.9
9.5
85.9

PROPOSED SEPTIC SYSTEM DESIGN
AT 316 LEVERETT ROAD
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-8-87 SCALE: AS SHOWN



PLAN OF PROPOSED STRUCTURES &
SEPTIC FACILITIES @ 316 LEVERETT RD.
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-7-87 SCALE: 1" = 30'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PERC
GRND EL.=95.4
100.00' DATUM
ALUM. NAIL IN W.
SIDE OF 8" WHITE OAK
FARM ROAD
FARM ROAD
40' WIDE R.O.W
10' WIDE DIRT ROAD
PLAN OF EXISTING FEATU
316 LEVERETT RD. AMHER
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-7-87 SCALE

No..... FEE.....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

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

316 LEVERETT RD. — Location - Address
LOT 4 ("LAYOUT B") — or Lot No.
JEFF WOOD — Owner
316 LEVERETT RD. — Address
L & F CONST. — Installer
LEVERETT — Address

Type of Building — Size Lot 30,000 Sq. feet
Dwelling — ✓ No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (No)
Other — Type of Building ..... No. of persons..... Showers ( ) — Cafeteria ( )
Other fixtures .....

Design Flow 110 gallons per ~~person~~ BR per day. Total daily flow 440 gallons.
Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter..... Depth 4'
Disposal ~~Trench~~ Field — No. ..... Width 30' Total Length 30' Total leaching area 900 sq. ft.
Seepage Pit No..... Diameter..... Depth below inlet..... Total leaching area..... sq. ft.
Other Distribution box (Yes) Dosing tank (No)
Percolation Test Results Performed by R. SCOTT, P.E. WITNESS: C. DRAKE Date 4-24-87
Test Pit No. 1 8 minutes per inch Depth of Test Pit 120" Depth to ground water 72"
Test Pit No. 2 ..... minutes per inch Depth of Test Pit 120" Depth to ground water 70"

Description of Soil PIT #1 TO 4" TOPSOIL; TO 24" SUBSOIL; TO 72" FIRM BROWN TILL W/ FINES & COBBLES; TO DEPTH DENSE COARSE GREY SAND W/ FINES. PIT #2 TO 4" TOPSOIL; TO 28" SUBSOIL; TO 70" FIRM BROWN TILL W/ FINES & COBBLES; TO DEPTH DENSE COARSE GREY SAND W/ FINES.
Nature of Repairs or Alterations — Answer when applicable .....

Agreement:

The undersigned agrees to install the aforedescribed 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

CHECK OR FILL IN WHERE APPLICABLE

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

..... OF .....

No..... FEE.....

Disposal Works Construction Permit

Permission is hereby granted.....
to Construct ( ) or Repair ( ) an Individual Sewage Disposal System
at No..... Street
as shown on the application for Disposal Works Construction Permit No..... Dated.....

..... Board of Health

DATE.....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

Dennis,

Now submitted for your approval is this revised plan for lot #4 (call it 4B). Jeff Wood will contact you soon to sign the application and pay the fee if it looks okay.

I'm not sure where else Jeff intends to pere on May 9. If there are other questions on these, perhaps we can discuss them w/ Jeff then.

Thanks
Rich Scott 5-2-88

No. ..... Fee .....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

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

316 LEVERETT RD. — Location - Address
LOT 4 ("LAYOUT B") — or Lot No.
JEFF WOOD — Owner
316 LEVERETT RD. — Address
L & F CONST. — Installer
LEVERETT — Address

Type of Building — Size Lot 30,000 Sq. feet
Dwelling — ✓ No. of Bedrooms 4 — Expansion Attic (No) — Garbage Grinder (No)
Other — Type of Building ..... No. of persons ..... Showers ( ) — Cafeteria ( )
Other fixtures .....

Design Flow 110 gallons per ~~person~~ BR per day. Total daily flow 440 gallons.
Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter ..... Depth 4'
Disposal ~~Trench~~ FIELD — No. ..... Width 30' Total Length 30' Total leaching area 900 sq. ft.
Seepage Pit No. ..... Diameter ..... Depth below inlet ..... Total leaching area ..... sq. ft.
Other Distribution box (yes) Dosing tank (No)
Percolation Test Results Performed by R. SCOTT, P.E. WITNESS: C. DRAKE Date 4-24-87
Test Pit No. 1 8 minutes per inch Depth of Test Pit 120" Depth to ground water 72"
Test Pit No. 2 ..... minutes per inch Depth of Test Pit 120" Depth to ground water 70"

Description of Soil PIT #1 TO 4" TOPSOIL; TO 24" SUBSOIL; TO 72" FIRM BROWN TILL W/ FINES & COBBLES; TO DEPTH DENSE COARSE GREY SAND W/ FINES. PIT #2 TO 4" TOPSOIL; TO 28" SUBSOIL; TO 70" FIRM BROWN TILL W/ FINES & COBBLES; TO DEPTH DENSE COARSE GREY SAND W/ FINES.
Nature of Repairs or Alterations — Answer when applicable .....

Agreement:

The undersigned agrees to install the aforedescribed 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

CHECK OR FILL IN WHERE APPLICABLE

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

..... OF .....

No. ..... Fee .....

Disposal Works Construction Permit

Permission is hereby granted .....
to Construct ( ) or Repair ( ) an Individual Sewage Disposal System
at No. ..... Street
as shown on the application for Disposal Works Construction Permit No. ..... Dated .....

..... Board of Health

DATE .....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

OBSERVATION PITS

REQUESTED BY: JEFFREY WOOD

LOCATION: LEVERETT ROAD LOT #5

MAILING ADDRESS: 312 LEVERETT RD.

OBSERVER: R. SCOTT, P.E.

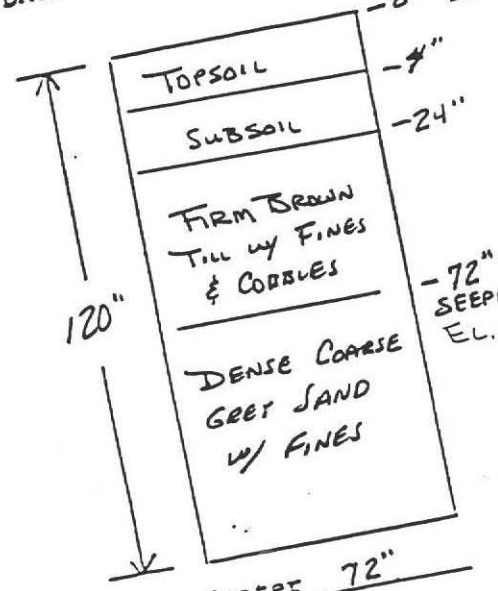
WITNESS: C.E. DRAKE, AMHERST B OF H.

DATE: 4-24-87

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER

Richard M. Scott 4-24-87

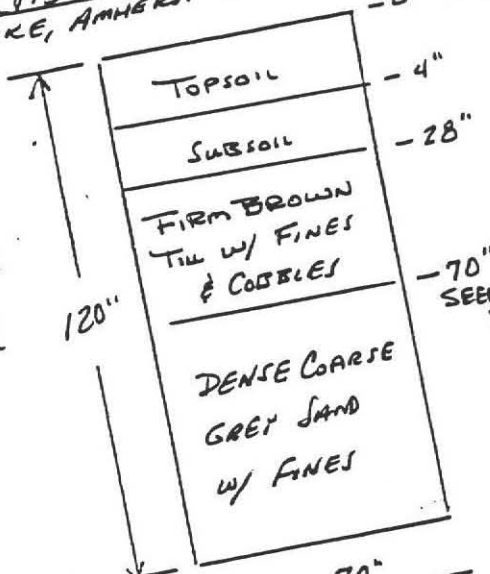
DEEP HOLE #1



Groundwater 72"

Perc Rate

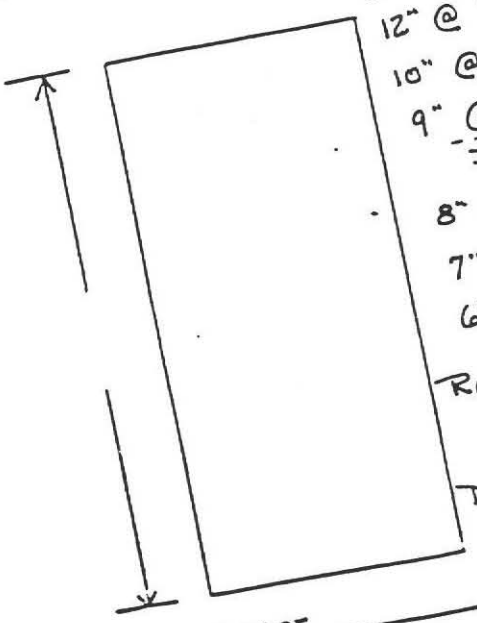
DEEP HOLE #2



Groundwater 70"

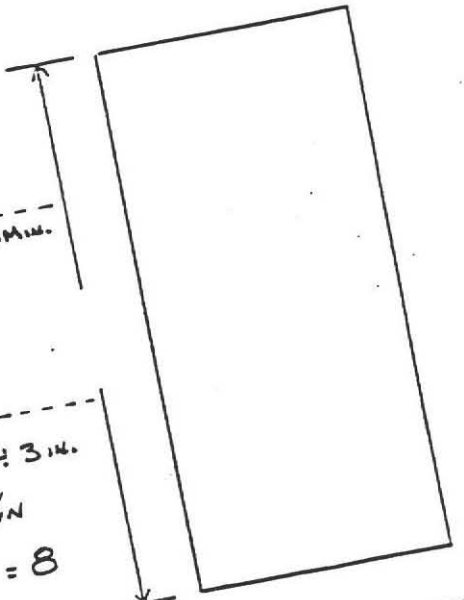
Perc Rate

PERC DEPTH @ 34"
START SOAK @ 9:23
12" @ 9:38
10" @ 9:45
9" @ 9:51
INITIAL 3" IN 13 MIN.
8" @
7" @ 10:04
6" @ 10:11
RATE = 20 MIN ÷ 3 IN.
= 6.7 MIN./IN
DESIGN RATE = 8



Groundwater

Perc Rate



Groundwater

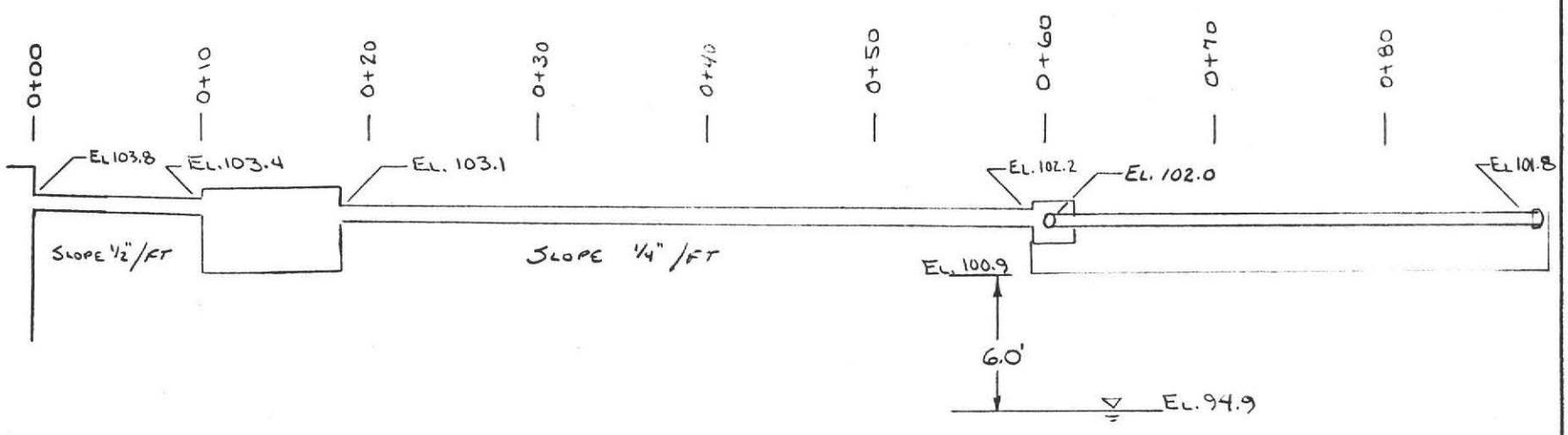
Perc Rate

SYSTEM DESIGN CALCULATIONS

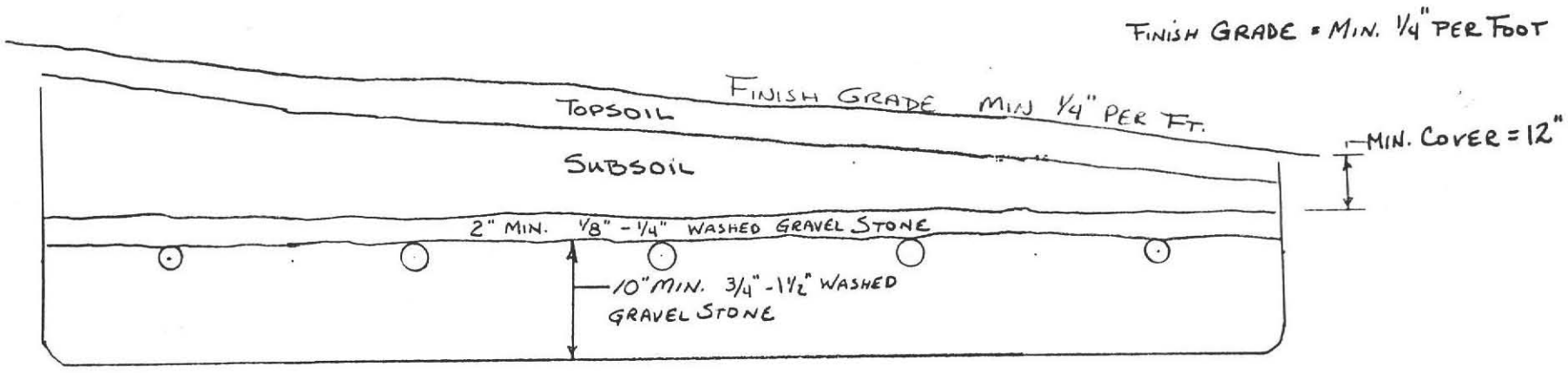
4 BEDROOM X 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 X 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 8 MINUTES PER INCH → DESIGN LOADING =
= 1.60 SQ. FT. PER GALLON FOR BOTTOM LEACHING ONLY.
MINIMUM LEACH FIELD BOTTOM AREA = 440 X 1.60 = 704 SQ. FT. X1.25 "AMHERST" FACTOR = 880 FT²
LEACH FIELD SPECIFIED FOR THIS SITE = 30' X 30' = 900 SQ. FT.

SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS D.E.Q.E. STATE ENVIORONMENTAL CODE TITLE 5.



SYSTEM PROFILE ~ SECTION PARALLEL TO FLOW
SCALE: HORIZ: 1" = 10' VERT: N.T.S.



30' X 30' LEACHFIELD. HEADER PIPES FROM DISTRIBUTION BOX TO BE 4" PVC NON-PERFORATED & ARE TO BE LAID LEVEL. 150 LIN. FT. OF 4" PERFORATED PVC DISTRIBUTION PIPE TO BE LAID AT MIN. .005' PER FT. ALL PIPE ENDS TO BE CAPPED.

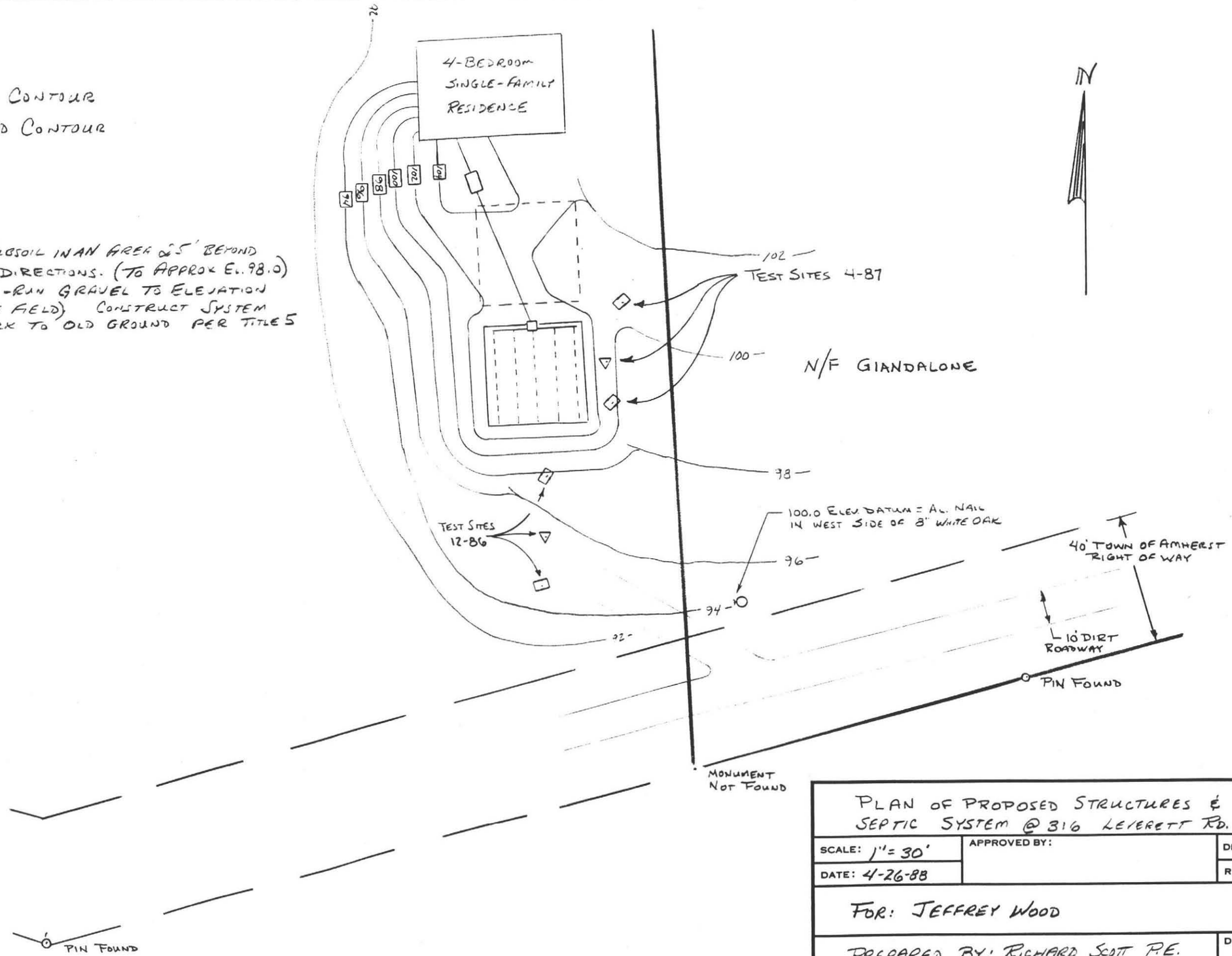
LEACH FIELD PROFILE ~ SECTION PERPENDICULAR TO FLOW
SCALE: HORIZ: 1" = 4' VERT: N.T.S.

PROPOSED SEPTIC SYSTEM DESIGN
AT 316 LEVERETT RD. (LOT 4) (B)
FOR: JEFFREY WOOD
PREPARED BY: RICHARD SCOTT, P.E.
SCALE: AS SHOWN DATE: 4-30-88

~98~ EXISTING CONTOUR

[98] PROPOSED CONTOUR

REMOVE ALL TOP & SUBSOIL IN AN AREA 25' BEYOND LEACH FIELD IN ALL DIRECTIONS. (TO APPROX EL. 98.0) FILL & COMPACT BANK-RUN GRAVEL TO ELEVATION OF 100.9 (BOTTOM OF FIELD) CONSTRUCT SYSTEM AND SLOPE FILL BACK TO OLD GROUND PER TITLE 5



PLAN OF PROPOSED STRUCTURES & SEPTIC SYSTEM @ 316 LEVERETT RD. LOT #4 (B)

SCALE: 1" = 30'	APPROVED BY:	DRAWN BY RMS
DATE: 4-26-88		REVISED
FOR: JEFFREY WOOD		
PREPARED BY: RICHARD SCOTT P.E.		DRAWING NUMBER

Leverett Road, Amherst - Jeff Wood

Lot 4 (A)

As originally laid out

Approval by Charlie Drake late June 1987

4-26-88 Revision changes house location only.

RMS 5-9-88

? Status 1/11/89

? accepted by Dept.

No..... FEE.....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

RICHARD M. SCOTT CIVIL No. 31199

Richard Scott 7/7

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

316(?) LEVERETT RD. (Location - Address) ..... or Lot No.

JEFFREY WOOD (Owner) ..... 312 LEVERETT RD. AMHERST, MA. (Address)

L&F CONSTRUCTION (Installer) ..... LEVERETT, MA. (Address)

Type of Building ..... Size Lot 300,000 Sq. feet

Dwelling ✓ No. of Bedrooms 4 ..... Expansion Attic (No) ..... Garbage Grinder (No)

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

Other fixtures .....

Design Flow 110 gallons per ~~person~~ BEDROOM per day. Total daily flow 440 gallons.

Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter ..... Depth .....

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

Seepage Pit No. 1 Diameter 14' Depth below inlet 5' Total leaching area 924 sq. ft.

Other Distribution box (No) Dosing tank (No)

Percolation Test Results Performed by RICHARD SCOTT, P.E. WITNESS: C.E. DRAKE Date 12-17-86

Test Pit No. 1 15 minutes per inch Depth of Test Pit 114" Depth to ground water (DRY)

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

Description of Soil 0 TO 6" TOPSOIL; TO 18" SUBSOIL; TO DEPTH SANDY TILL.

Nature of Repairs or Alterations — Answer when applicable .....

Agreement:

The undersigned agrees to install the aforedescribed 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

CHECK OR FILL IN WHERE APPLICABLE

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

..... OF .....

No. ..... FEE .....

Disposal Works Construction Permit

Permission is hereby granted .....

to Construct ( ) or Repair ( ) an Individual Sewage Disposal System

at No. ..... (Street)

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

..... Board of Health

DATE .....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

OBSERVATION PITS

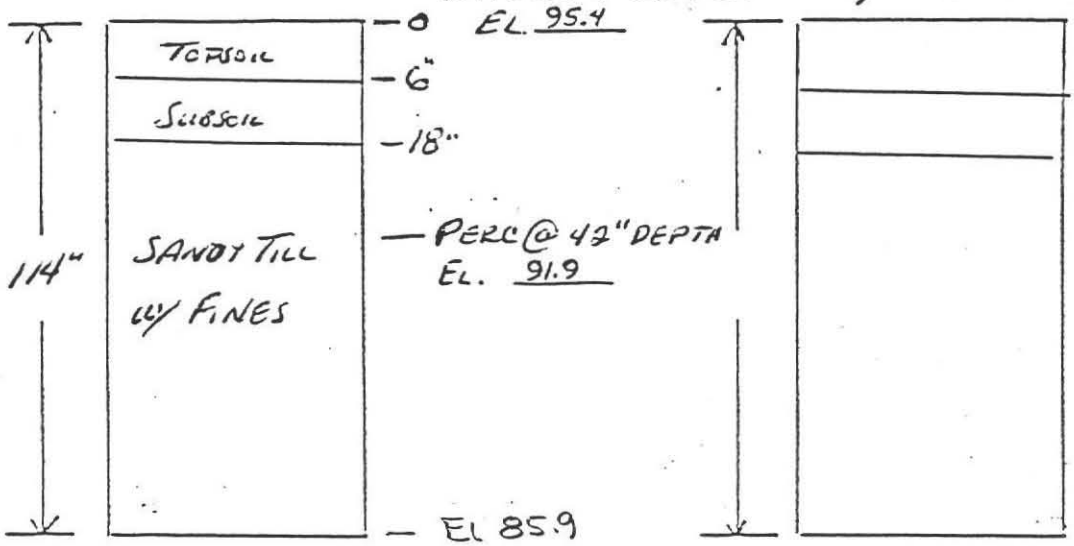
REQUESTED BY: JEFFREY WOOD

LOCATION: LOT #4
LEVERETT RD. AMHERST

MAILING ADDRESS: 312 LEVERETT RD. AMHERST, MA. 01002

DATE: 12-17-86 OBSERVER: RICHARD SCOTT

WITNESS: C.E. DRAKE, AMHERST B.O.H.



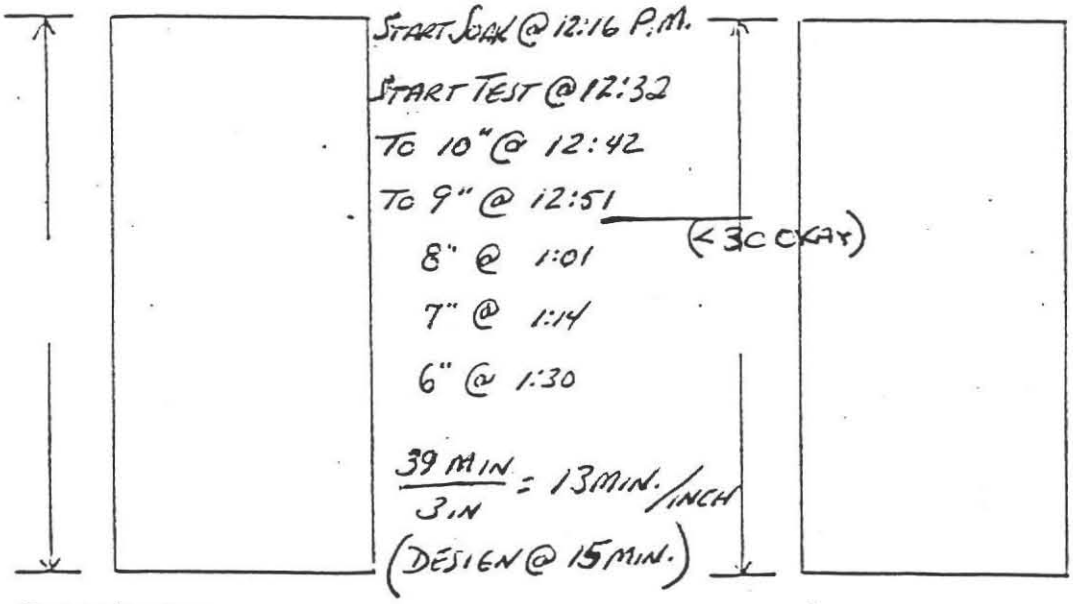
COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
4-7-87

Groundwater DRY

Perc Rate 14 MIN./INCH

Groundwater _____

Perc Rate _____



Groundwater _____

Perc Rate _____

Groundwater _____

Perc Rate _____

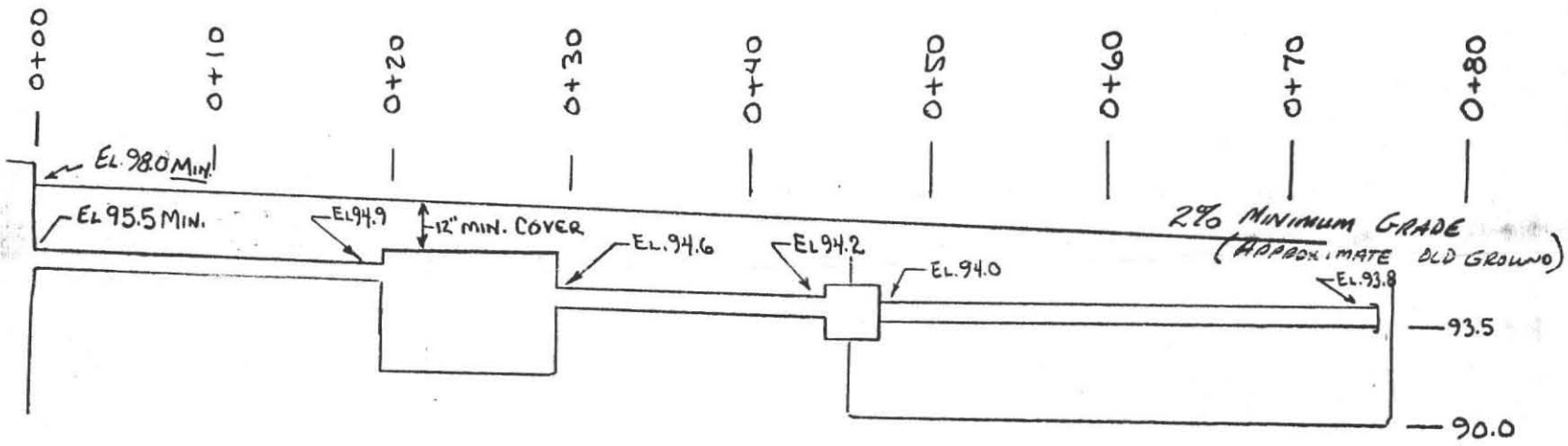
SYSTEM DESIGN CALCULATIONS

4 BEDROOM x 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

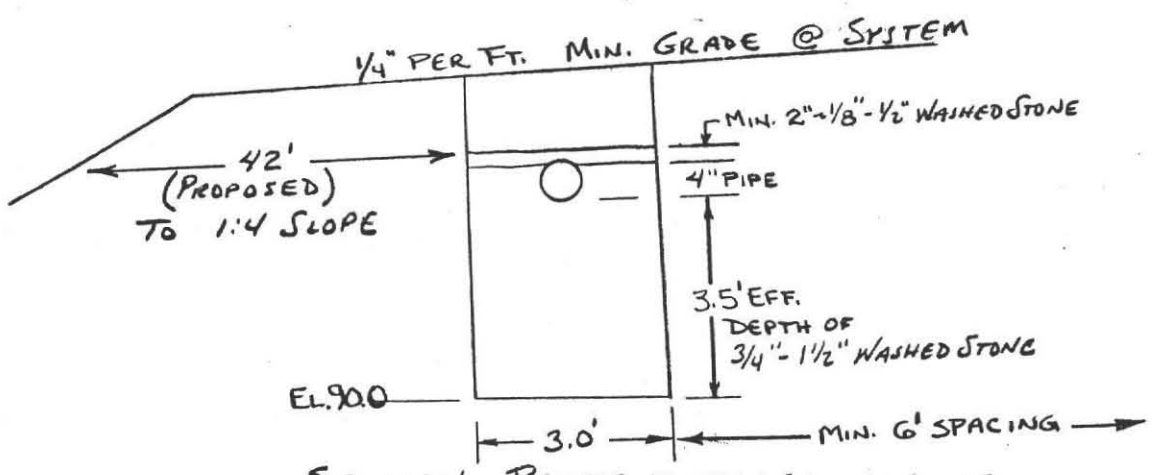
MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 x 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 15 MINUTES PER INCH → DESIGN LOADING =
= 0.43 GALLONS PER SQ. FT. OF BOTTOM AREA AND 0.66 GALLONS PER SQ. FT. OF SIDEWALL AREA. LEACH FACILITY SIZING IS BASED ON 440 GPD x 1.25 AMHERST FACTOR = 550 GPD.

LEACH TRENCHES 3.0 FT WIDE x 3.5' EFFECTIVE DEPTH.
ALLOWABLE LOADING PER FT. OF TRENCH = (3' x 1') x 0.43 + 2 x (3.5 x 1') x 0.66 =
= 5.91 GPD PER FT. OF TRENCH. LENGTH OF TRENCH REQ'D = 550 ÷ 5.91 = 93' (4/0 ENDS)
TRENCH SPECIFIED = 3 x 30' TOTAL CAPACITY = 90 x 5.91 + 6 x 3 x 3.5 x .66 = 573 GPD ✓

SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS DEQE STATE ENVIRONMENTAL CODE TITLE 5 AND TOWN OF AMHERST SUPPLEMENTAL REGULATIONS.



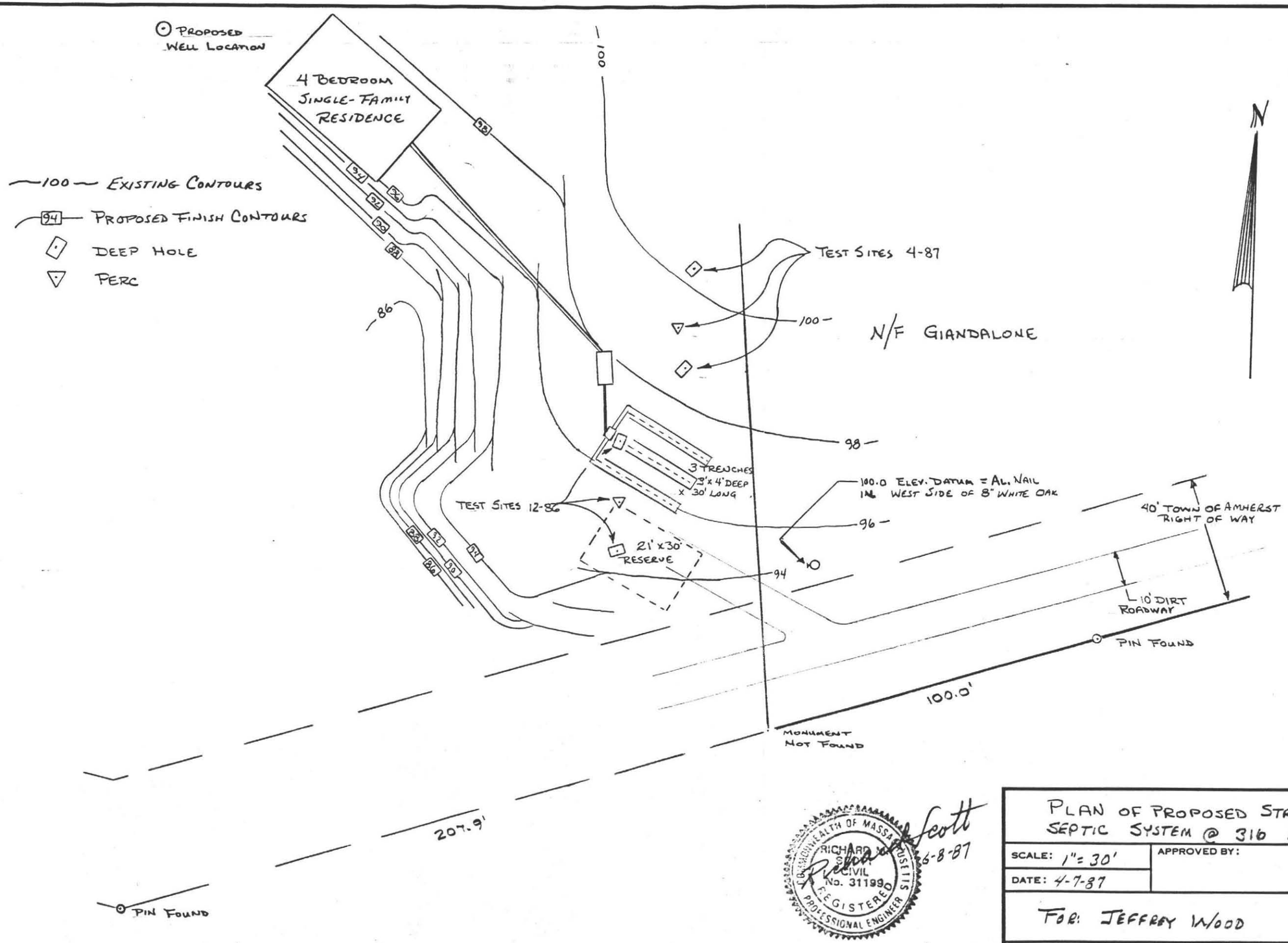
SYSTEM PROFILE ~ SECTION PARALLEL TO FLOW
SCALE: HORIZ: 1" = 10' VERT: N.T.S.



SECTION PERPENDICULAR TO FLOW
(TYPICAL TRENCH)

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-8-87

PROPOSED SEPTIC SYSTEM DESIGN
AT 316 LEVERETT ROAD (LOT #4)
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-8-87 SCALE: AS SHOWN
REV'D 6-8-87



COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER

Richard M. Scott 6-8-87

PLAN OF PROPOSED STRUCTURES & SEPTIC SYSTEM @ 316 LEVERETT RD. LOT #4 (A)

SCALE: 1" = 30'	APPROVED BY:	DRAWN BY RMS
DATE: 4-7-87		REVISED 6-8-87 4-26-88

FOR: JEFFREY WOOD

6-8-87 - CHANGED PIT TO TRENCHES
4-26-88 - CHANGED HOUSE LOCATION

PREPARED BY: RICHARD SCOTT, P.E.

DRAWING NUMBER

11 X 17 PRINTED ON NO. 1000H CLEARPRINT

Dennis

I'm quite sure this one (the original lot 4) has had a permit issued.

June 8, 1987

Board of Health
Town of Amherst
Main St.
Amherst, MA. 01002

Attn: Charles Drake

Subject: Septic System Design for "Lot 4" at Leverett Rd.
Owner: Jeffrey Wood

Dear Mr Drake:

A design was submitted in April for this lot. You had made some comments and Mr. Wood asked for a modification of the house location. These questions are apparently now all resolved. Enclosed are four copies of the complete sets. I have made revisions to the Application form, calculation sheet and proposed contours drawing. The other sheets I have photocopied again without change.

This now seems like a very workable arrangement. Please give me a call during the day at (617) 544-2511 if you have any questions or concerns. —Thanks

Sincerely,
Richard Scott

cc: Jeffrey Wood, w/ Encl.

Charlie,

I understand my call from Bill Van for Percs in Hadley was a result of your referral. Percs are done. Has gone well so far. Thank you Rich

OBSERVATION PITS

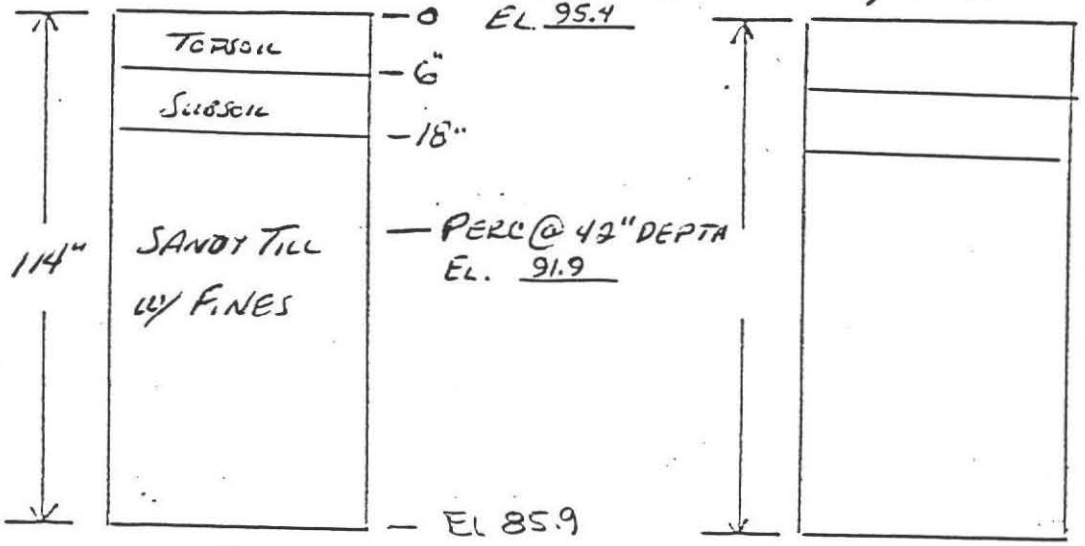
REQUESTED BY: JEFFREY WOOD

LOCATION: LOT #4
LEVERETT RD. AMHERST

MAILING ADDRESS: 312 LEVERETT RD. AMHERST, MA. 01002

DATE: 12-17-86 OBSERVER: RICHARD SCOTT

WITNESS: C.E. DRAKE, AMHERST B.O.H.



COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
4-7-87

Groundwater DRY

Perc Rate 14 MIN./INCH

Groundwater _____

Perc Rate _____

START SOAK @ 12:16 P.M.
START TEST @ 12:32
TO 10" @ 12:42
TO 9" @ 12:51
8" @ 1:01 (< 30 OKAY)
7" @ 1:14
6" @ 1:30

$\frac{39 \text{ MIN}}{3 \text{ IN}}$ = 13 MIN./INCH
(DESIGN @ 15 MIN.)

Groundwater _____

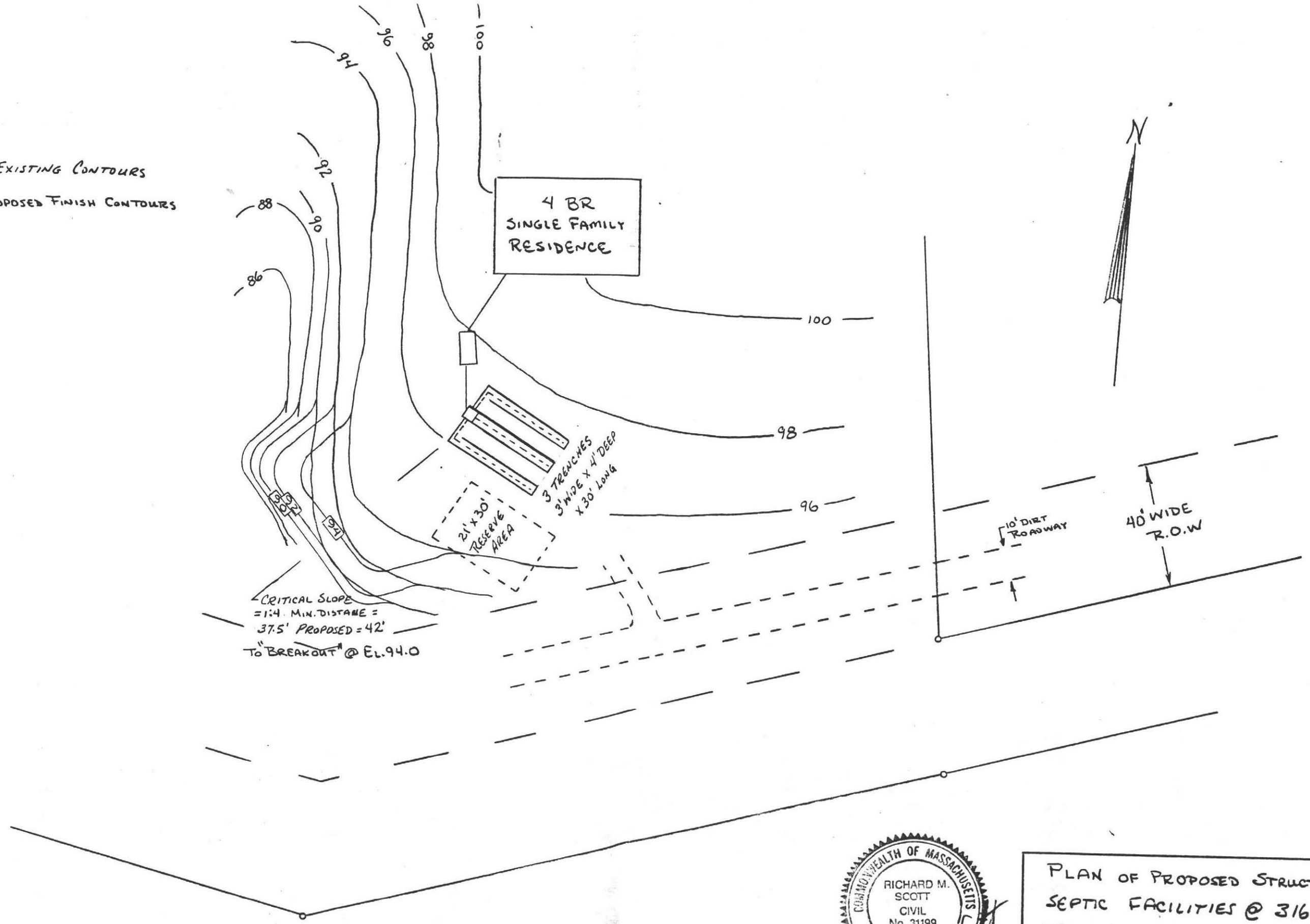
Perc Rate _____

Groundwater _____

Perc Rate _____

— 100 — EXISTING CONTOURS

—[94]— PROPOSED FINISH CONTOURS



COMMONWEALTH OF MASSACHUSETTS
RICHARD M.
SCOTT
CIVIL
No. 31199
REGISTERED
PROFESSIONAL ENGINEER
6-8-87

PLAN OF PROPOSED STRUCTURES &
SEPTIC FACILITIES @ 316 LEVERETT RD.
FOR: JEFFREY WOOD (LOT #4)(A)
BY: RICHARD SCOTT, P.E.
DATE: 4-7-87 REV'D 6-8-87 SCALE: 1" = 30'

SYSTEM DESIGN CALCULATIONS

4 BEDROOM x 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 x 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 15 MINUTES PER INCH → DESIGN LOADING =
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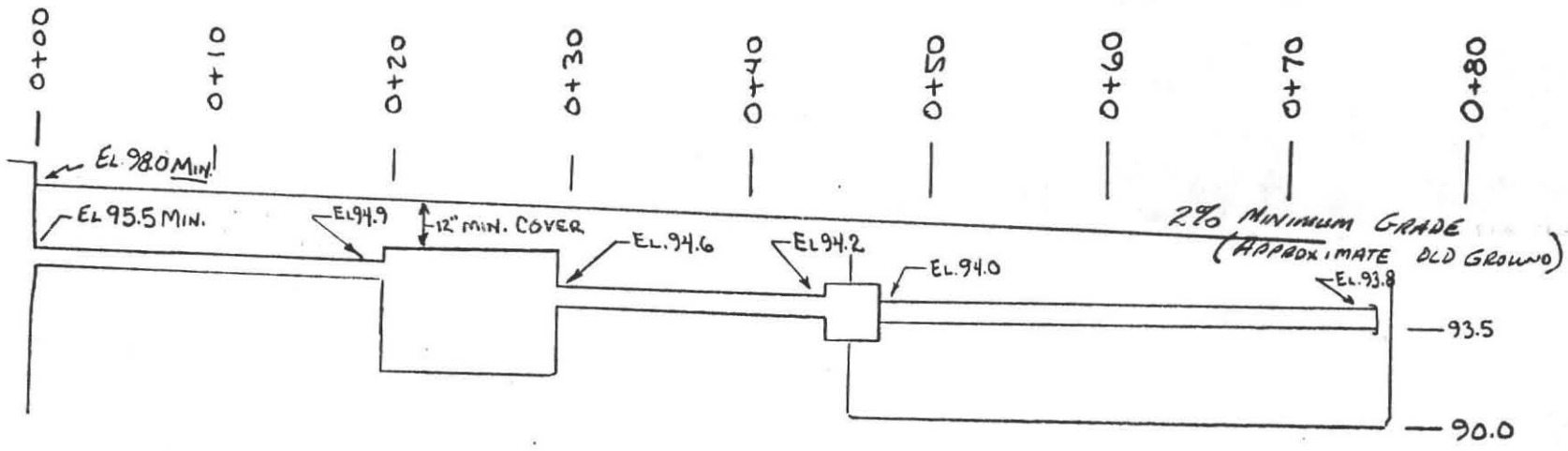
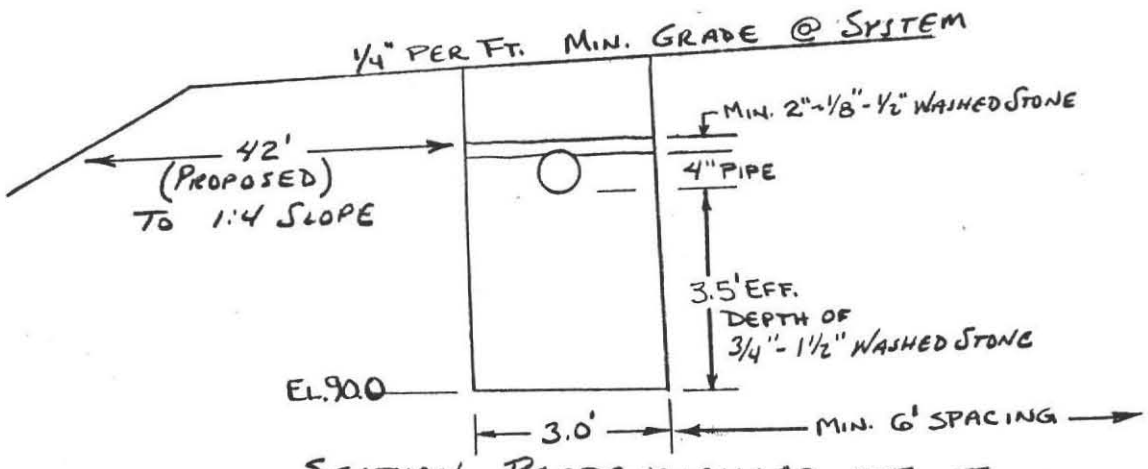
LEACH TRENCHES 3.0 FT WIDE x 3.5' EFFECTIVE DEPTH.
ALLOWABLE LOADING PER FT. OF TRENCH = (3'x1') x 0.43 + 2x(3.5x1') x 0.66 =
= 5.91 GPD PER FT. OF TRENCH. LENGTH OF TRENCH REQ'D = 550 ÷ 5.91 = 93' (4% ENDS)
TRENCH SPECIFIED = 3 x 30' TOTAL CAPACITY = 90x5.91 + 6x3x3.5x.66 = 573 GPD ✓

SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS DEQE STATE ENVIRONMENTAL CODE TITLE 5 AND TOWN OF AMHERST SUPPLEMENTAL REGULATIONS.



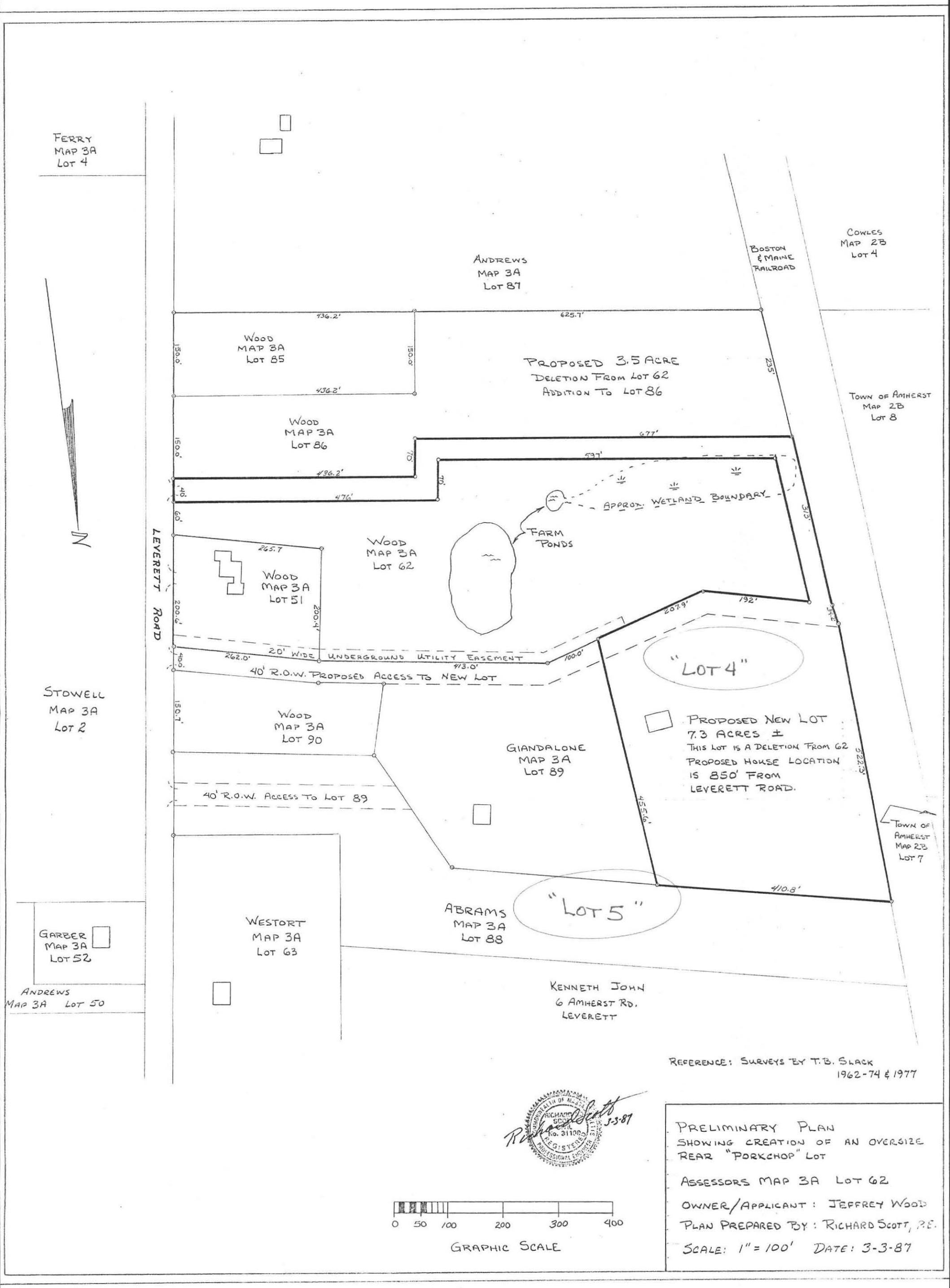
SYSTEM PROFILE ~ SECTION PARALLEL TO FLOW
SCALE: HORIZ: 1" = 10' VERT: N.T.S.



SECTION PERPENDICULAR TO FLOW
(TYPICAL TRENCH)

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-8-87

PROPOSED SEPTIC SYSTEM DESIGN
AT 316 LEVERETT ROAD (LOT #4) (A)
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 4-8-87 SCALE: AS SHOWN
REV'D 6-8-87



REFERENCE: SURVEYS BY T.B. SLACK
1962-74 & 1977

COMMONWEALTH OF MASSACHUSETTS
RICHARD SCOTT
No. 31100
REGISTERED PROFESSIONAL ENGINEER
Richard Scott 3-3-87

PRELIMINARY PLAN
SHOWING CREATION OF AN OVERSIZE
REAR "PORKCHOP" LOT

ASSESSORS MAP 3A LOT 62

OWNER/APPLICANT: JEFFREY WOOD

PLAN PREPARED BY: RICHARD SCOTT, P.E.

SCALE: 1" = 100' DATE: 3-3-87

Dennis

I think this (lot 5) was submitted to Charlie but no permit ever issued.

Fee.....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town ..... of Amherst .....

tion for Disposal Works Construction Permit

made for a Permit to Construct ( ) or Repair ( ) an Individual Sewage Disposal

Sy

320 Leverett Rd. (Lot #5)
Location - Address or Lot No.

Jeffrey Wood 312 Leverett Rd. Amherst
Owner Address

L&F Construction Leverett, MA.
Installer Address

Type of Building Size Lot.....Sq. feet

Dwelling ✓ No. of Bedrooms 4 Expansion Attic (No) Garbage Grinder (No)

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

Other fixtures .....

Design Flow 110 gallons per ~~person~~ Bedroom per day. Total daily flow 440 gallons.

Septic Tank ✓ Liquid capacity 1000 gallons Length 8' Width 5' Diameter..... Depth 5'

Disposal ~~Trench~~ Field ✓ No. 1 Width 30' Total Length 30' Total leaching area 900 sq. ft.

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

Other Distribution box (Yes) Dosing tank (No)

Percolation Test Results Performed by R. Scott, P.E. Witness: C.E. Drake Amherst B.of H. Date 4-24-87

Test Pit No. 1 8 minutes per inch Depth of Test Pit 120" Depth to ground water 72"

Test Pit No. 2.....minutes per inch Depth of Test Pit 120" Depth to ground water 70"

Description of Soil Deep Hole #1 0-4" Topsoil; To 24" Subsoil; To 72" Firm Till w/ Fines & Cobbles; To Depth Dense Grey Sand w/ Fines. Deep Hole #2 0-4" Topsoil; To 28" Subsoil; To 70" Firm Till w/ Fines & Cobbles; To Depth Dense Grey Sand w/ Fines.

Nature of Repairs or Alterations — Answer when applicable.....

Agreement:

The undersigned agrees to install the aforedescribed 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

CHECK OR FILL IN WHERE APPLICABLE

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..... ..... OF ..... Fee.....

Disposal Works Construction Permit

Permission is hereby granted.....

to Construct ( ) or Repair ( ) an Individual Sewage Disposal System

at No.....
Street

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

.....
Board of Health

DATE.....

FORM 1255 HOBBS & WARREN, INC., PUBLISHERS

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-15-87

OBSERVATION PITS

REQUESTED BY: JEFFREY WOOD

LOCATION: LEVERETT ROAD LOT #5

MAILING ADDRESS: 312 LEVERETT RD.

DATE: 4-24-87 OBSERVER: R. SCOTT, P.E.

WITNESS: C.E. DRAKE, AMHERST B OF H.

COMMONWEALTH OF MASSACHUSETTS RICHARD M. SCOTT CIVIL No. 31199 REGISTERED PROFESSIONAL ENGINEER

Richard M. Scott 4-24-87

DEEP HOLE #1

120"

- 0" EL. = 101.0
- TOPSOIL
- 4"
- SUBSOIL
- 24"
- FIRM BROWN TILL W/ FINES & COBBLES
- 72" SEEPAGE EL. = 95.0
- DENSE COARSE GREY SAND W/ FINES

Groundwater 72"

Perc Rate

DEEP HOLE #2

120"

- 0" EL. = 99.0
- TOPSOIL
- 4"
- SUBSOIL
- 28"
- FIRM BROWN TILL W/ FINES & COBBLES
- 70" SEEPAGE EL 93.2
- DENSE COARSE GREY SAND W/ FINES

Groundwater 70"

Perc Rate

PERC DEPTH @ 34"

START SOAK @ 9:23

12" @ 9:38

10" @ 9:45

9" @ 9:51

INITIAL 3" IN 13 MIN.

8" @

7" @ 10:04

6" @ 10:11

RATE = 20 MIN ÷ 3 IN.

= 6.7 MIN./IN

DESIGN RATE = 8

Groundwater

Perc Rate

Groundwater

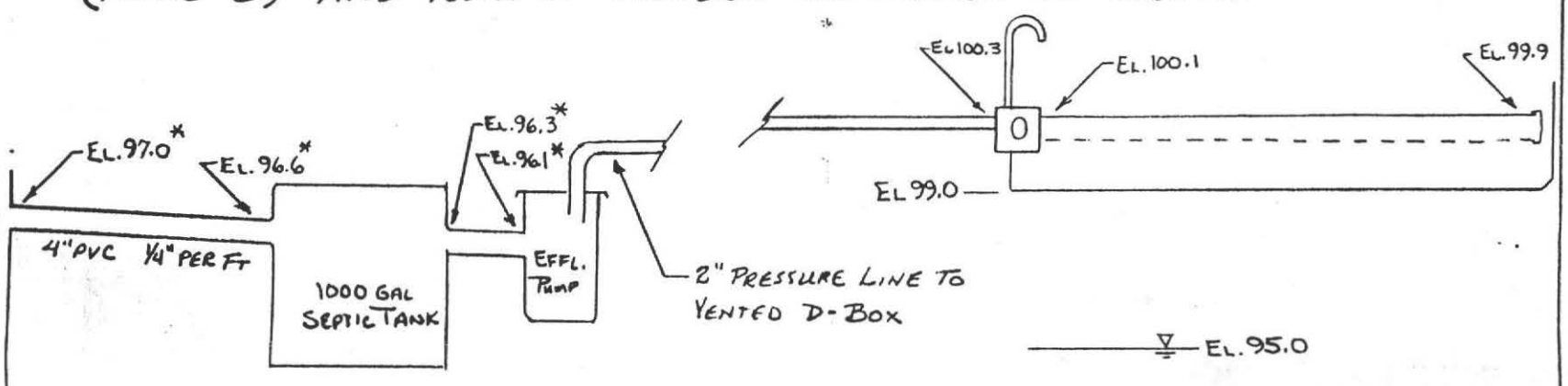
Perc Rate

SYSTEM DESIGN CALCULATIONS

4 BEDROOM x 110 GAL PER BEDROOM PER DAY = 440 G.P.D. DESIGN FLOW

MINIMUM EFFECTIVE SEPTIC TANK VOLUME = 1.5 x 440 = 660 GALLONS
SPECIFIED EFFECTIVE TANK VOLUME = 1000 GALLONS
PERCOLATION RATE = 8 MINUTES PER INCH → DESIGN LOADING =
= 0.63 GALLONS PER SQ. FT. OF BOTTOM AREA AND 1.25 GALLONS PER SQ. FT. OF SIDEWALL AREA. LEACH FACILITY SIZING IS BASED ON 440 GPD x 1.25 AMHERST FACTOR = 550 GPD.
LEACH FIELD. 30 FT. WIDE x 30' LONG. = 900 SQ. FT. DESIGNED FOR BOTTOM LEACHING ONLY. 900 FT^2 x .63 GAL/FT^2 = 567 GPD CAPACITY (> 550)

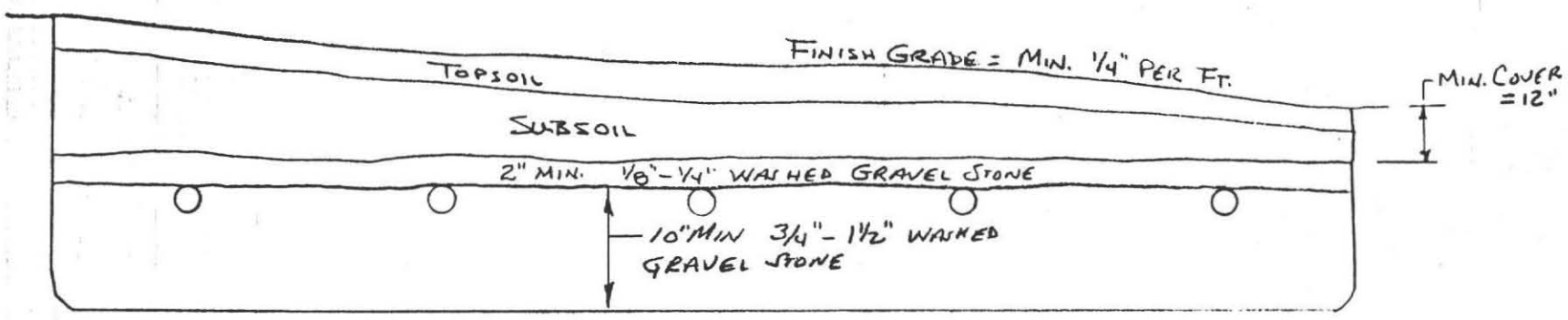
SPECIFICATION: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MASSACHUSETTS D.E.Q.E. REGULATION 310 CMR 15 (TITLE 5) AND TOWN OF AMHERST SUPPLEMENTAL REGULATIONS



*ELEVATIONS SUBJECT TO CHANGE W/ FINAL HOUSE LOCATION. DIFFERENCES BETWEEN THESE FOUR ELEVATIONS WILL REMAIN UNCHANGED.

LEACH FIELD PROFILE ~ SECTION PARALLEL TO FLOW

SCALE: HORIZ: 1" = 10' VERT: NTS



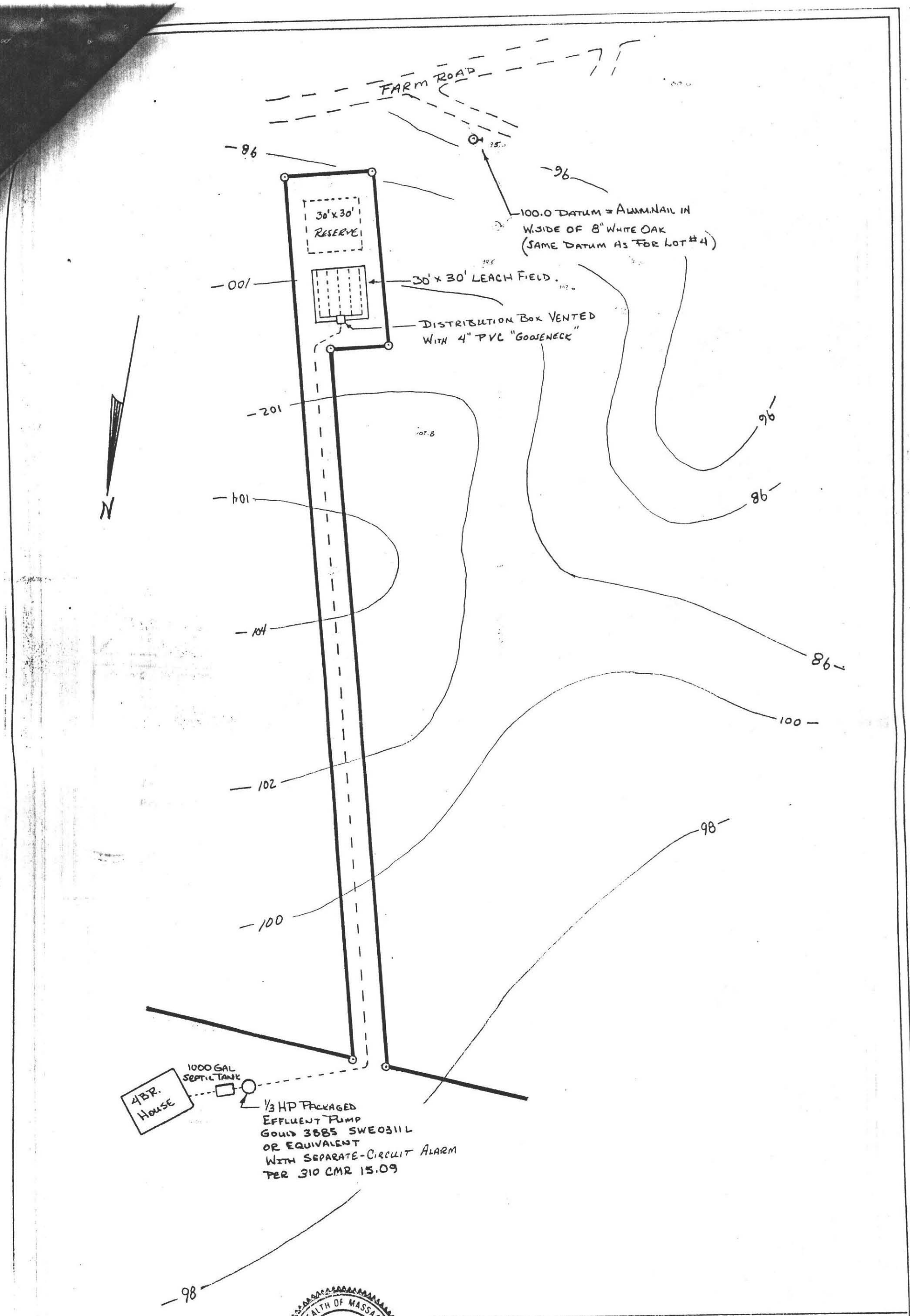
30' x 30' LEACHFIELD. HEADER PIPES FROM DISTRIBUTION BOX TO BE 4" PVC NON-PERFORATED & ARE TO BE LAID LEVEL. 150 LIN. FT. OF 4" PERFORATED PVC DISTRIBUTION PIPE TO BE LAID AT MIN. .005' PER FT. ALL PIPE ENDS TO BE CAPPED.

LEACH FIELD PROFILE ~ SECTION PERPENDICULAR TO FLOW

SCALE: HORIZ: 1" = 4' VERT: N.T.S.

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER
6-15-87

PROPOSED SEPTIC SYSTEM DESIGN
AT 318 LEV. RD. (J. WOOD LOT #5)
FOR: JEFFREY WOOD
BY: RICHARD SCOTT, P.E.
DATE: 6-11-87 SCALE: AS SHOWN



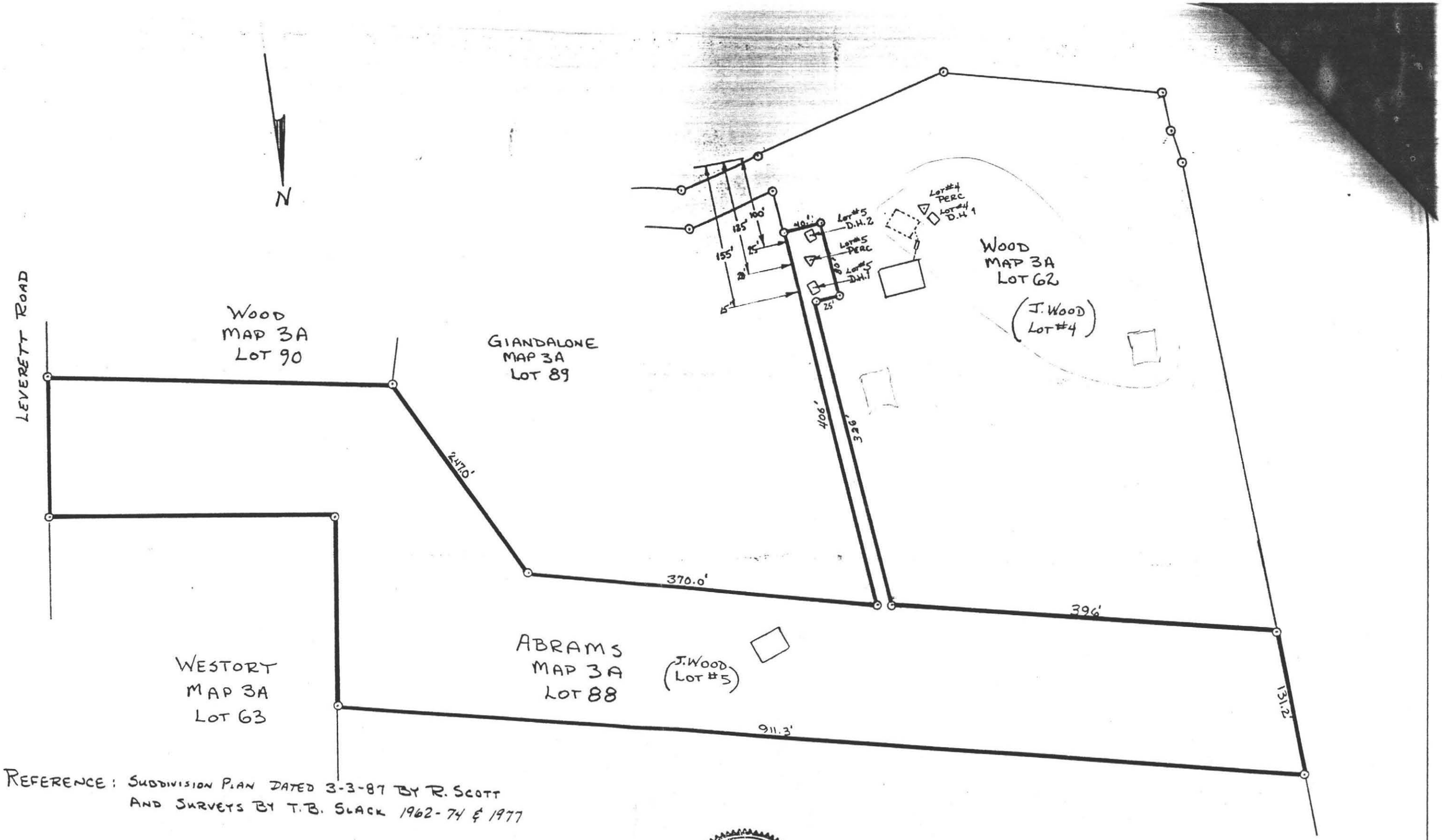
PROPOSED SEPTIC SYSTEM – LEV. RD. – LOT #5

EXISTING & FINAL CONTOURS

APPLICANT: JEFFREY WOOD OWNER: JEFFREY ABRAMS

RICHARD SCOTT, P.E.

SCALE: 1" = 40' DATE: 6-15-87



REFERENCE: SUBDIVISION PLAN DATED 3-3-87 BY R. SCOTT
AND SURVEYS BY T.B. SLACK 1962-74 & 1977

COMMONWEALTH OF MASSACHUSETTS
RICHARD M. SCOTT
CIVIL
No. 31199
REGISTERED PROFESSIONAL ENGINEER

6-15-87

PROPOSED SEPTIC SYSTEM - LEV. RD. - LOT #5

LOT BOUNDARY & PERC TEST LOCATIONS

APPLICANT: JEFFREY WOOD OWNER: JEFFREY ABRAMS

RICHARD SCOTT, P.E.

SCALE: 1" = 100' DATE 6-11-87

GOULDS Model 3885 Submers

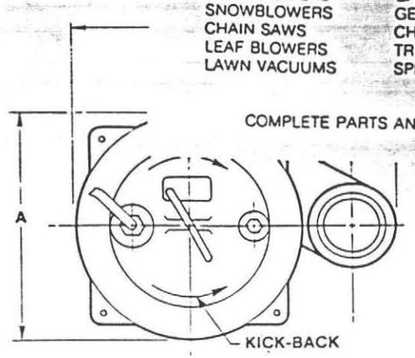
POWER EQUIPMENT

TRACTORS
LAWN MOWERS
SNOWBLOWERS
CHAIN SAWS
LEAF BLOWERS
LAWN VACUUMS
LOG SPLITTERS
GARDEN TILLERS
GENERATORS
CHIPPERS AND SHREDDERS
TRIMMERS
SPRAYERS

COMPLETE PARTS AND SERVICE FACILITY

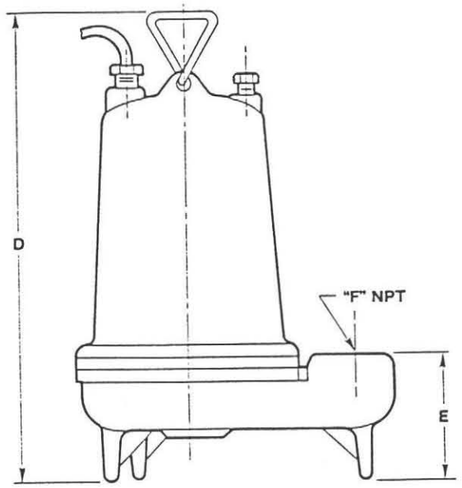
SPECIFICATIONS

H.P.	Order No.	Volts	Phase		Max. Amps	RPM	Max. Solids	Wt. (lbs.)
⅓	WE0311L	115	1		9.4	1750	¾"	56
	WE0312L							
	WE0311M	230			4.7			
	WE0312M							
½	WE0511H	115			16.0	3450		60
	WE0512H	230			8.0			
	WE0532H	208/230		3	3.4			
	WP0534H	460			1.7			
¾	WE0712H	230	1		9.0			70
	WE0732H	208/230		3	5.4			
	WE0734H	460			2.7			
1	WE1012H	230	1		11.6			
	WE1032H	208/230		3	6.4			
	WE1034H	460			3.2			
1½	WE1512H	230	1		13.3			80
	WE1532E	208/230		3	9.2			
	WE1534H	460			4.6			



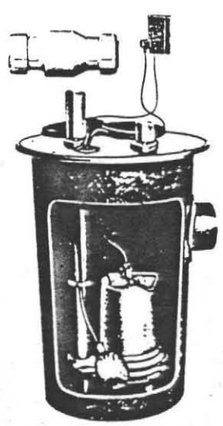
DIMENSIONS CHART (in inches)

H.P.	Order No.	Phase	A	B	C	D	E	F
⅓	WE0311L	1φ	8¼	12½	5¾	15	3¼	2
	WE0312L							
	WE0311M							
	WE0312M							
½	WE0511H							
	WE0512H							
	WE0532H	3φ						
	WP0534H							
¾	WE0712H	1φ & 3φ	8½	12½	5¾	15	3¼	2
	WE0732H							
	WE0734H							
1	WE1012H							
	WE1032H							
	WE1034H							
1½	WE1512H							
	WE1532H							
	WE1534H							



Model 3885 Packaged Effluent Ejector System

Goulds packaged effluent ejector system offers both ease of ordering and installation. A single ordering number specifies a complete system designed for most residential and commercial sump and effluent pump applications. The ease of installation is enhanced by plug-in power cords for the pump and level control switch which eliminates the need for additional wiring.



Capacities to 100 GPM
Heads to 30 ft.
¾" Solids Handling Capability
2" NPT Discharge Connection

Package Includes:

- Submersible Effluent Pump (WE0311L or WE0311M)
- Mercury Level Control Switch (ALS2-5)
- Basin (ALS7-1801S)
- Basin Cover (ALS8-1822)
- Check Valve (ALS9-2P)

Order No. SWE0311L or SWE0311M (95 lbs.)

'CIFICATIONS ARE SUBJECT TO
GE WITHOUT NOTICE.

ULDS PUMPS, INC.
SENECA FALLS NEW YORK 13148

983

Form No. 820423-1B
Litho in U.S.A.

Bulletin CL2.1A
July 8, 1983

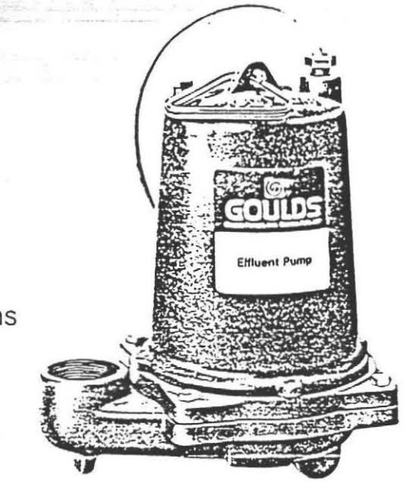
GOULDS Model 3885

(Supersedes Model 3870)

Submersible Effluent Pumps

- For Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent Systems

anywhere effluent or drainage must be disposed of quickly, quietly and efficiently.

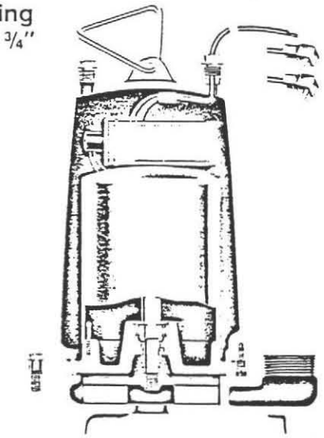


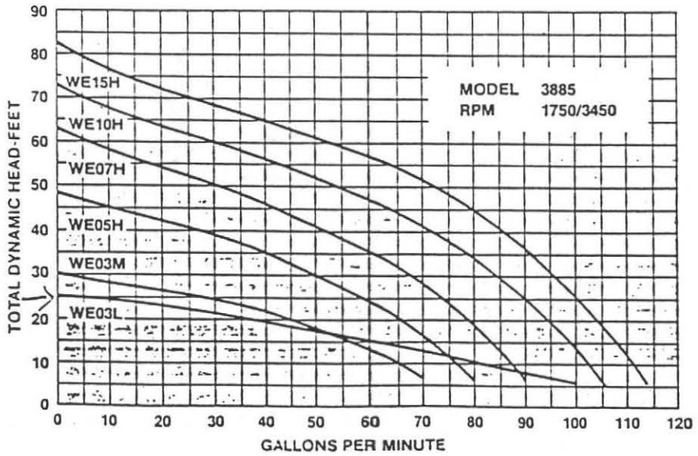
Heavy-Duty Dependable

Solids Handling Capability to ¾"

⅓, ½ H.P. 60 Hz
Single Phase 115, 230 Volt.

½, ¾, 1, 1½ H.P. 60 Hz
Single Phase 230 Volt. Three Phase 208-230, 460 Volt.





Pump Specifications

Solids Handling Capability to ¾".

Discharge Size
2" NPT.

Semi-Open Impeller
3 vane design, threaded on shaft. Three phase units use impeller locknut to prevent accidental back-off. Pump out vanes on backside of impeller for protection of mechanical seal.

Casing
Volute type for maximum efficiency.

Stainless Steel Fasteners
Series 300 stainless steel for corrosion resistance.

Mechanical Seal
Ceramic vs. Carbon sealing faces, stainless steel spring and Buna N elastomers.

Maximum Temperature
160°F.

Capable of Running Dry
without damage to components.

Motor Specifications

Motor Fully Submerged
in high grade turbine oil for permanent lubrication of bearings and mechanical seal and efficient heat dissipation. Motor sealed from environment by rugged cast iron enclosure.

Bearings
Heavy-duty all ball bearing construction.

Stainless Steel Shaft
Series 300 stainless steel for corrosion resistance. Threaded shaft.

Single Phase Units
All single phase units have built-in thermal overload protection with automatic reset.

Three Phase Units
Overload protection in starter unit. 208-230 or 460 volts. Threaded shaft 60 Hz operation.

Power Cord
Water and oil resistant. Epoxy seal on motor end acts as a secondary moisture barrier in case of damage to outer jacketing. Corrosion resistant gland nut.

Single Phase Units
⅓, ½ H.P. models equipped with 15' of 16/3 SJTO with 3-prong grounding plug. ¼, 1, 1½ H.P. models equipped with 15' of 14/3 STO power cord.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

GOULDS PUMPS, INC.
SENECA FALLS NEW YORK 13148

CH # 589

TOWN OF AMHERST
Health Department

Thomas Levy
Hakeya Point
PO Box 288
Leverett MA 01054

____ Bakery	01-0-501-4433-00	____ Offal/Garbage	01-0-501-4472-00
____ Bed & Breakfast	01-0-501-4474-01	____ Perc Test	01-0-501-4344-00
____ Burial Permit	01-0-501-4475-00	____ Retail Permit	01-0-501-4473-00
____ Car Seat Rental	89-0-000-2557-00	____ Sanitary Code Booklet	01-0-501-4380-00
____ Catering	01-0-501-4429-00	____ Septic Installers Permit	01-0-501-4470-01
____ Food Handler	01-0-501-4474-00	✓ Septic Private Applications	01-0-501-4470-00
____ Housing Inspection	01-0-501-4348-00	____ Septic - Reinspection	01-0-501-4345-00
____ Massage	01-0-501-4425-00	____ Sub-Division Rev.	01-0-501-4460-00
____ Motel License	01-0-501-4428-00	____ T.B. Clinic	01-0-501-4379-00
____ Miscellaneous	01-0-501-____	____ Twenty-one D Tickets	01-0-501-4879-00

TOTAL FEE 60 00

PAID
JUL 5 1995
TOWN OF AMHERST
TREASURER

Norma T Tyler
Treasurer/Collector

Date

Health Department

7/5/95
Date

Must have Collector's "PAID STAMP" on receipt to be valid.

White: Applicant

Yellow: Collector

Pink: Accountant

Gold: Health Dept.

ck # 589

Thomas Levy
Halera Paint
PO Box 288
Leominster MA 01054

TOWN OF AMHERST
Health Department

____	Bakery	01-0-501-4433-00	____	Offal/Garbage	01-0-501-4472-00
____	Bed & Breakfast	01-0-501-4474-01	____	Perc Test	01-0-501-4344-00
____	Burial Permit	01-0-501-4475-00	____	Retail Permit	01-0-501-4473-00
____	Car Seat Rental	89-0-000-2557-00	____	Sanitary Code Booklet	01-0-501-4380-00
____	Catering	01-0-501-4429-00	____	Septic Installers Permit	01-0-501-4470-01
____	Food Handler	01-0-501-4474-00	✓	Septic Private Applications	01-0-501-4470-00
____	Housing Inspection	01-0-501-4348-00	____	Septic - Reinspection	01-0-501-4345-00
____	Massage	01-0-501-4425-00	____	Sub-Division Rev.	01-0-501-4460-00
____	Motel License	01-0-501-4428-00	____	T.B. Clinic	01-0-501-4379-00
____	Miscellaneous	01-0-501-____	____	Twenty-one D Tickets	01-0-501-4879-00

TOTAL FEE 60 00

PAID JUL 5 1995 TOWN OF AMHERST TREASURER

Norma T. Tyler
Treasurer/Collector — Date

Health Department — 7/5/95 — Date

Must have Collector's "PAID STAMP" on receipt to be valid.

White: Applicant Yellow: Collector Pink: Accountant Gold: Health Dept.