N

N/F
BUCK

RAD = 40.00
ARC = 30.22
CH'D = 29.50
N 52°-09'-33"E

N 64°-33-52 E
21.34'

N 27°-29'-36"
88.62'

I.P.S.

N 20°-01'-56"W
113.45'

I.P.S.

N 64°-33'-52"E
71.92'

I.P.S.

N 21°-00-20E
38.78'

N 16°-09-56"E
23.96'

N 19°-10'-44"E
63.31'

S 75°-22-41 W
21.11

I.P.S.

I.P.S.

N 8
3

STREET

CLIFF

25.5

N 16°-09'-56"E
52.77'

I.P.S.

N. 45°-00'-00"E
27.10

75.34'

S 61°-06'-14"W

S 76°-10-32"W
85.32'

N 61°-06'-14"E
61.25'

I.P.S.

I.P.S.

47.94'

N 37°-37'-05"E

N 76°-10'-32"E
85.22'

70.16'

N 32°-31'-37"E

57.97'
N 31°-49'-42"E

BARN

RAD = 25.00'
ARC = 28.07'
CH'D = 26.62'
S 71°-39'-22"E

I.P.S.
24" ASH

S 88°-40'-47"W
121.53'

F.P.

N 86°-57'-29"W
92.20'

AREA = 1.77 AC.
= 77,011.-PFT

GOLDMAN

MUDROOM

LIVING ROOM ADDITION

WELL

REST WALK

118.86'
S 12°-47-50E

I.P.S.

RAD = 58.00'
ARC = 65.12
CH'D = 61.76
N 71°-39-22 W

HUNGERFORD

S 40°-09-39E
150.62'

ROAD

I.P.S.

S 10°-48"W

HADLYME C
CHU.

AREA = 2.5
= 111,5

36'-32"W
3'

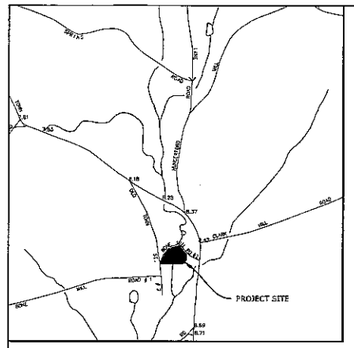
S 86°-59'-14"W
39.96'
S 70°-02-39 W
19.87'

L
5-
50.42
S 45°-53
65.28'
S 47°-09'-15
15.31'
S 60°-37'-19"W
8'
°12-14'W

APPROVED
AUG 4 2011
EAST HADDAM
ZONING

IRREGATIONA
W

DATE	REVISION	CK.



LOCATION MAP
SCALE: 1"=1000'±

TOWN OF EAST HADDAM
SITE DATA TABLE

ZONE: RESIDENTIAL 2 ACRE R-2

ITEM	REQUIRED	EXISITING LOT	PROPOSED LOT
MINIMUM LOT AREA	87,120 SF 2 AC	77,012 SF 1.77 AC	77,012 SF 1.77 AC
MINIMUM LOT WIDTH	200 FT	>200 FT	>200 FT
MAXIMUM NUMBER OF STORIES	2 1/2 STORIES	~ 1 STORY	<2 1/2 STORIES
MAXIMUM HEIGHT OF BUILDING	35 FT	<35 FT	<35 FT
MINIMUM SETBACK FROM FRONT PROPERTY LINE	40 FT	10.37 FT	41 FT
MINIMUM SETBACK FROM REAR PROPERTY LINE	40 FT	232.56 FT	253.21 FT
MINIMUM SETBACK FROM OTHER PROPERTY LINE	40 FT	144.15 FT	93.84 FT
MAXIMUM BUILDING COVERAGE	5%	0.5% (384 SF)	1.7% (1,320 SF)
MAXIMUM IMPERVIOUS SURFACE COVERAGE	10%	1.5% (1,192 SF)	7.3% (5,693 SF)
WATER SUPPLY	–	–	ON SITE
SEWAGE DISPOSAL	–	–	ON SITE

PROPOSED SANITARY SYSTEM DESIGN:

2 BEDROOM BARN AND GARAGE
DESIGN PERCOLATION RATE = 10.1–20.0 MIN/IN
REQUIRED EFFECTIVE LEACHING AREA= 50 SF

PROVIDE 1–50 FT ROW OF GST 6212
EFFECTIVE LEACHING AREA PROVIDED
50 LF X 10.0 SF/LF = 500 SF

PROVIDE 1,000 GALLON SEPTIC TANK

PROVIDED 100% RESERVE AREA

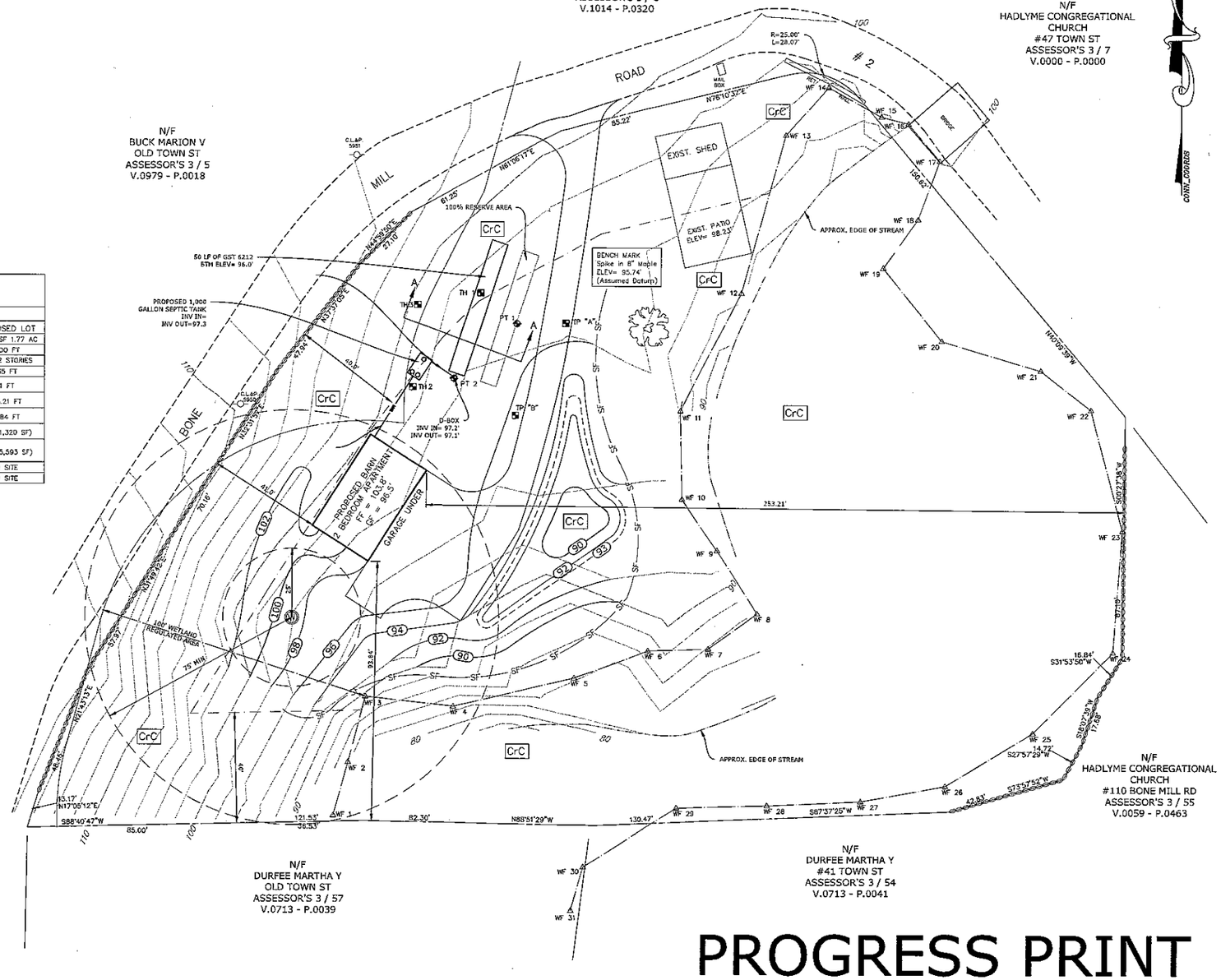
MINIMUM LEACHING SYSTEM SPREAD
DEPTH TO RESTRICTIVE LAYER
SLOPE= 7.8%
HF= 20
FF= 1.0
PF= 1.25
MLSS REQUIRED= 20 X 1.0 X 1.25 = 25 LF
MLSS PROVIDED= 50 LF

N/F
SMITH GABRIEL P & LAURA E
#39 OLD TOWN ST
ASSESSOR'S 3 / 2
V.1066 - P.0067

N/F
BROWN SCOTT & TOMASETTI JAMIE
#97 BONE MILL RD
ASSESSOR'S 3 / 6
V.1014 - P.0320

N/F
BUCK MARION V
OLD TOWN ST
ASSESSOR'S 3 / 5
V.0979 - P.0018

N/F
HADLYME CONGREGATIONAL CHURCH
#47 TOWN ST
ASSESSOR'S 3 / 7
V.0000 - P.0000



PROGRESS PRINT

LEGEND

- IRON PIPE/ROD TO BE SET
- MON MONUMENT
- IP IRON PIPE/ROD
- DH DRILL HOLE
- WELL
- CONC. CONCRETE
- GTD GRADE TO DRAIN
- FND FOUND
- FF FINISHED FLOOR
- EXIST. EXISTING
- TW TOP OF WALL
- CL&P# 1198 EXISTING UTILITY POLE
- TH#1/TP#1 TEST HOLE
- PT#1 PERCOLATION TEST HOLE
- ~100~ EXISTING CONTOURS
- SF SILT FENCE
- EXISTING STONEWALL
- CrC SOIL TYPE SYMBOL

NOTE

SOILS ON THIS PROPERTY CONSIST OF:

1) CrC–CANTON AND CHARLTON SOILS, 8 TO 15 PERCENT SLOPES

GRAPHIC SCALE

30 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20–300b–1 THRU 20–300b–4 INCLUSIVE OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND "RECOMMENDED MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT". IT IS AN IMPROVEMENT LOCATION SURVEY INTENDED TO DEPICT THE EXISTING AND PROPOSED IMPROVEMENTS RELATIVE TO THE PROPERTY LINES AND ZONING SETBACK LINES SHOWN. PROPERTY/BOUNDARY HAS BEEN DETERMINED BY A PARTIAL INDEPENDENT RESURVEY WITH REFERENCE TO THE MAPS LISTED HEREON.

A.)
"PROPERTY SURVEY FOR DOROTHY HANNA, TOWN OF EAST HADDAM, CONNECTICUT" SCALE: 1"=50', DATE: AUG. 7, 1991. PREPARED BY RICHARD ZIOBRON, SURVEYOR, EAST HADDAM, CT..

THE SUBJECT PROPERTY CONTAINS 77,012 SF 1.77 AC

HORIZONTAL ACCURACY CONFORMS TO CLASS A–2.

VERTICAL ACCURACY CONFORMS TO CLASS T–2

SUBJECT PROPERTY IS RECORDED IN TOWN OF EAST HADDAM LAND RECORDS VOL. 1014, PG 320

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ROBERT L. DOANE, JR.
CONN. P.E. & L.S. LIC. NO. 11463

STATE OF CONNECTICUT ROBERT L. DOANE, JR. NO. 11463 REGISTERED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT ROBERT L. DOANE, JR. NO. 11463 LICENSED LAND SURVEYOR

MAP #3 LOT #56

DOANE ENGINEERING
CIVIL ENGINEERING AND LAND SURVEYING
P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409
TEL: (860)767-0138, FAX: (860)767-9104

SITE PLAN
PREPARED FOR
SCOTT BROWN
BONE MILL ROAD No.2, EAST HADDAM, CONNECTICUT

SCALE:	DATE:	SHEET NO.:	DENT. NO.:
1"=20'	07/25/23	1 OF 2	

DATE	REVISION	CK.

CONSTRUCTION SEQUENCE
(SANITARY SYSTEM)

1. NOTIFY TOWN HEALTH DEPARTMENT AND THE ENGINEER 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.NO PORTION OF THE SYSTEM WILL BE COVERED WITHOUT INSPECTION AND APPROVAL BY THE ENGINEER OR THE SANITARIAN.
2. PLACE SILT FENCE AS SHOWN ON THE DRAWING AND IN THE DETAIL.
3. REMOVE ALL TREES, STUMPS AND DELETERIOUS MATERIAL FROM SYSTEM AREA.
4. STOCKPILE TOPSOIL FOR REUSE.
   A. DO NOT STOCKPILE TOPSOIL IN SANITARY SYSTEM AREA.
   B. DO NOT REMOVE SUBSOIL.
5. ENGINEER/LAND SURVEYOR SHALL FIELD STAKE THE PROPOSED SYSTEM PRIOR TO INSTALLATION. ADDITIONAL A BENCH MARK SHOULD BE SET AT THE TIME OF STAKEOUT.
6. INSTALL SEPTIC SYSTEM AS SHOWN.
   A. IF SOIL CONDITIONS OTHER THAN THOSE SHOWN IN THE SOIL LOGS ARE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM, THE DESIGN ENGINEER OR THE SANITARIAN SHALL BE NOTIFIED AND THE WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS. IF NECESSARY THE SANITARY SYSTEM SHALL BE REVISED.
   B. A MINIMUM OF 4 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND LEDGE.A MINIMUM OF 1.5 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND SEASONAL HIGH GROUNDWATER.
7. DO NOT BACKFILL ANY PORTION OF THE SANITARY SYSTEM UNTIL INSPECTED BY THE SANITARIAN AND UNTIL A "RECORD" SURVEY HAS BEEN COMPLETED.
8. REPLACE TOPSOIL GRADE, SEED AND MULCH ALL DISTURBED AREAS.
9. MAINTAIN SYNTHETIC FILTER BARRIER UNTIL ALL DISTURBED AREAS ARE STABILIZED.

SANITARY SYSTEM NOTES:

1. NO LARGE CAPACITY TUBS (> 100 GALLON CAPACITY) ARE PLANNED AND WILL NOT BE PERMITTED IN THE PROPOSED RESIDENCE.
2. NO WATER TREATMENT SYSTEM WASTE WATER SHOULD BE DISCHARGED TO THE SEPTIC SYSTEM.
3. A GARBAGE GRINDER (DISPOSAL) IS PROPOSED AND THE SEPTIC TANK HAS BEEN INCREASED IN SIZE TO A 1,500 GALLON TANK.
4. WATER SUPPLY SHALL BE BY INDIVIDUAL WELL.
5. ALL SOLID PIPING AFTER THE SEPTIC TANK TO BE 4" PVC ASTM D 3034, SDR 35.
6. FILTER FABRIC SHALL BE SELECTED FROM THE FOLLOWING TABLE:

APPROVED FILTER FABRICS FOR COVERING STONE AGGREGATE

MANUFACTURE	DESIGNATION NUMBER
AMERICAN ENGINEERING FABRICS	AEF-480
BRADLEY INDUSTRIAL TEXFILE	PHENOIX TJDMA
CARTHAGE MILLS	M35
CULTEC	410
DUPONT	SF20
ENGINEERED SYNTHETIC PRODUCTS	TNS R020
GEO FABRICS	GF 150
L&M SUPPLY COMPANY	L&M 231
MIRAFI	65304 (4' WIDE), 65303 (3' WIDE)
SKAPS INDUSTRIES	SKAPS ST 120
SRW PRODUCTS	SRW PRODUCTS DF1 SRW PRODUCTS DF2
TERRA TEX	501.5, P01.5
TYPAR	3151, 3201
US FABRIC INC.	US 1.5 CT

7. NO DEVIATION FROM THIS PLAN WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER AND SANITARIAN.
8. SEPTIC TANK CONSTRUCTION JOINTS SHALL BE SEALED WITH ASPHALT CEMENT. ALL PIPE CONNECTIONS TO THE SEPTIC TANK AND DISTRIBUTION BOXES SHALL BE SEALED WITH A POLYETHYLENE GASKET ("POLY-LOK" OR APPROVED EQUAL)
9. SEPTIC TANK AND BAFFLES SHALL CONFORM TO SECTION V.A.I TECHNICAL STANDARDS OF THE STATE HEALTH CODE.
10. SEPTIC TANK SHALL BE TWO COMPARTMENT TANK WITH HEAVY DUTY STEEL HANDLES FOR MANHOLE ACCESS COVERS AND GAS BAFFLES INSTALLED ON OUTLET PIPING. SEPTIC TANK TO BE EQUIPPED WITH AN APPROVED NON-BY-PASS EFFLUENT FILTER AT THE OUTLET. SEE TABLE BELOW:

APPROVED SEPTIC TANK EFFLUENT FILTERS

MANUFACTURER	MODEL
BEAR ONSITE	ML2-416, ML2-920, ML3-910 ML3-916, ML3-925, ML3-932
BIO-MICROBICS	Sanitee Series, ST 416, ST 418, ST 818 ST 838, ST 1618, ST 1638
BOWCO INDUSTRIES	EF-235
GAG-SIMTECH	STF-110, STF-110-7H STF-110-6W, STF-110-8H
NORWECO	BIO-KINETIC BK2000
ORENCO SYSTEMS	FT0444-36 FT0854-36 FT1254-36 FT1554-36 FTJ0418
POLYLOK	PL-68, PL-122, PL-525, PL-625 GF 10-8, GF 10-16
PREMIER TECH	EFT-080
RISSY PLASTICS	45 - CLIK N'STICK
TUF-TITE	EF-4, EF-6
ZABEL	A100 A300 A1800 A1801 A100-HIP A300-HIP A1800-HIP A1801-HIP A600-12, A600-8
ZOELLER/CLARUS	WW1 (170-0078) WW4 (5000-0007)

11. STONE AGGREGATE MEANS BROKEN STONE, CRUSHED STONE, OR SCREENED GRAVEL MEETING DEPARTMENT OF TRANSPORTATION FORM 816 SPECIFICATION M.01.01 FOR NO. 4 OR NO. 6 STONE (AS SHOWN BELOW OR LATEST SPECIFICATION). STONE AGGREGATE SHALL BE FREE OF SILT, DIRT OR DEBRIS AND SHALL SHOW A LOSS OF ABRASION OF NOT MORE THAN 50 PERCENT USING AASHTO METHOD T-96.

SIEVE SIZE	NO. 4 STONE AGGREGATE (A.K.A. 1 & " STONE) PERCENT PASSING (by weight)	NO. 6 STONE AGGREGATE (A.K.A. 3/4" STONE) PERCENT PASSING (by weight)
2 - INCH	100	N/A
1.5 INCH	90-100	N/A
1 INCH	20-55	100
3/4 INCH	0-15	90-100
1/2 INCH	N/A	20-55
3/8 INCH	0-5	0-15
#4	N/A	0-5
#40	0-3	0-3
#200	0-15	0-15

12. ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS. HAVE RISER COVERS THAT WEIGHS AT LEAST 59 LBS. AND/OR INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO THE TANK. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.

SOIL TESTING
CHARLES LEIGUS
97 BONE MILL ROAD #2, EAST HADDAM, CT.
MAY 7, 2009
PERFORMED BY
ELIZABETH DAUDREN

PIT PT "A"
0-18" TOPSOIL
18-32" BROWN MEDIUM SILTY SAND WITH SOME GRAVEL AND ROCKS
32-67" DARK GRAY BROWN COARSE SILTY SAND WITH ROCKS, GRAVEL & BOULDERS
ROOTS-33"
MOTTLING-NONE
GROUND WATER=61"
NO LEDGE

PIT PT "B"
0-12" DARK TOPSOIL
12-22" RED/ORANGE BROWN MEDIUM SAND WITH SILT
22-41" BROWN GRAVELY COARSE SAND WITH SOME SILT
41-64" GRAY BROWN SANDY SILT WITH ROCKS, GRAVEL & BOULDERS, WET
ROOTS-35"
MOTTLING-NONE
GROUND WATER-57"
NO LEDGE

SOIL TESTING
CHARLES LEIGUS
97 BONE MILL ROAD #2, EAST HADDAM, CT.
MAY 7, 2009
PERFORMED BY
ROBERT L. DOANE, JR.

TH 1
0-15" TOPSOIL
15-34" VERY FINE LIGHT BROWN SILTY SAND SUBSOIL
34-54" BROWN MEDIUM/COARSE SAND WITH SILT, GRAVEL & STONES
54-76" COMPACT GRAY, VERY FINE, SILTY SAND TILL, WITH STONES
GROUND WATER-46"
MOTTLING-NONE
NO LEDGE

TH 2
0-15" TOPSOIL
15-38" FINE LIGHT BROWN SILTY SAND SUBSOIL
38-50" LIGHT BROWN MEDIUM/COARSE SAND
50-72" BROWN MEDIUM/COARSE SAND WITH SILT, GRAVEL & STONES
GROUND WATER-47"
MOTTLING-NONE
NO LEDGE

TH 3
0-12" TOPSOIL
12-32" VERY FINE LIGHT BROWN SILTY SAND SUBSOIL
32-60" BROWN MEDIUM/COARSE SAND WITH SILT, GRAVEL & STONES
GROUND WATER-47"
MOTTLING-NONE
NO LEDGE

Percolation Test
Performed by Doane-Collins Eng. Assoc., LLC
4/29/10

PT 1

Depth 33", Presoak 38 min.

TIME	DEPTH (in)	CHANGE DEPTH (in)
3:43	18 7/8	-
3:47	18 1/8	1 1/4
3:51	19 1/4	1 1/8
3:55	20	3/4
3:59	20 5/8	5/8
4:03	21	3/8
4:07	21 3/8	3/8
4:11	21 5/8	1/4
4:15	22 1/8	1/2
4:19	22 3/8	1/4
4:23	22 5/8	1/4
4:27	22 3/4	1/8
4:31	22 7/8	1/8
4:35	23 1/4	3/8
4:39	23 1/4	0
4:43	23 5/8	3/8

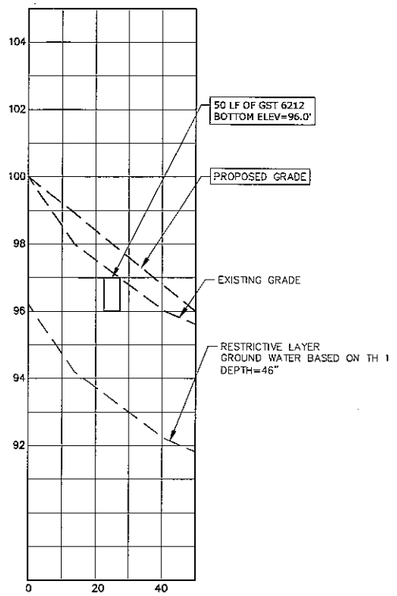
Percolation Rate = 13-14 min/inch

PT 2

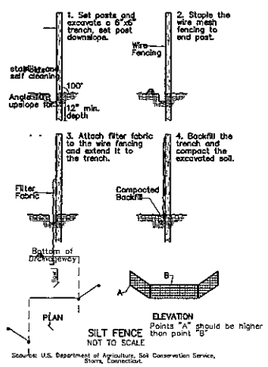
Depth 36", Presoak 19 min.

TIME	DEPTH (in)	CHANGE DEPTH (in)
2:54	19 7/8	-
2:56	21	1 1/8
2:58	22	1
3:00	22 7/8	7/8
3:02	23 5/8	3/4
3:04	24 1/8	1/2
3:06	24 5/8	1/2
3:08	25 1/8	1/2
3:10	25 5/8	1/2
3:12	26	3/8
3:14	26 1/4	1/4
3:16	26 1/2	1/4
3:18	27	1/2
3:20	27	0
3:22	27 3/8	3/8
3:24	27 1/2	1/8
3:26	27 3/4	1/4

Percolation Rate = 4 min/inch

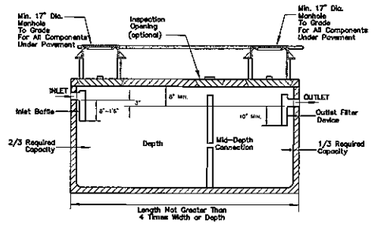


SECTION A-A
SANITARY SYSTEM X-SECTION
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

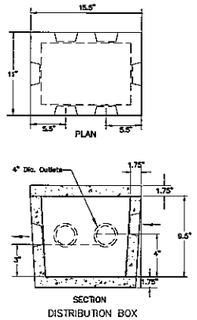


SILT FENCE
NOT TO SCALE

Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut.



TYPICAL SEPTIC TANK



DISTRIBUTION BOX
N.T.S.

PROGRESS PRINT

ROBERT L. DOANE, JR.
CONN. P.E. & L.S. LIC. NO. 11463

STATE OF CONNECTICUT ROBERT L. DOANE, JR. NO. 11463 REGISTERED PROFESSIONAL ENGINEER

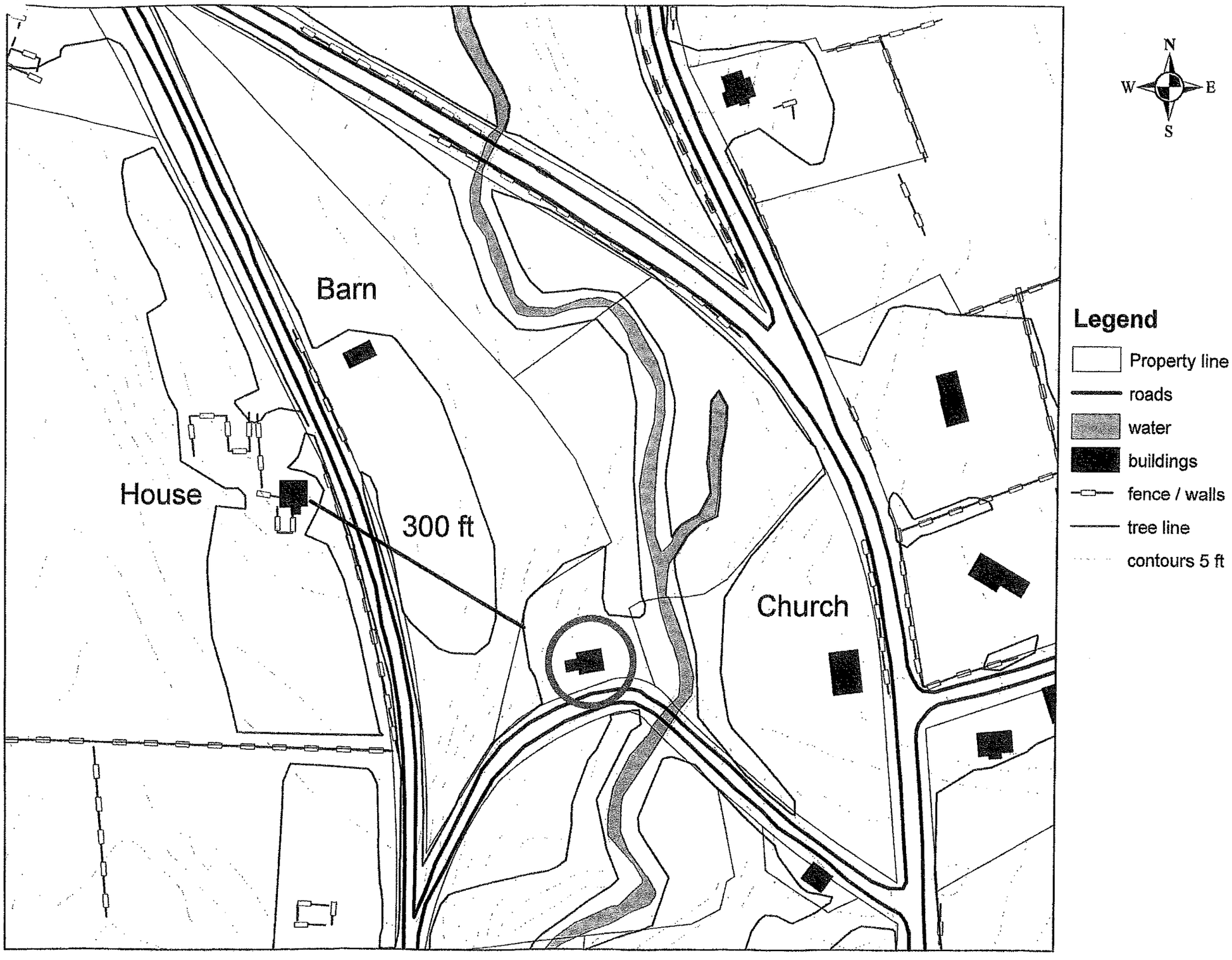
STATE OF CONNECTICUT ROBERT L. DOANE, JR. NO. 11463 LICENSED LAND SURVEYOR

MAP #3 LOT #56

DOANE ENGINEERING
CIVIL ENGINEERING AND LAND SURVEYING
P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409
TEL: (860)767-0138, FAX: (860)767-9104

SITE PLAN
PREPARED FOR
SCOTT BROWN
BONE MILL ROAD No.2, EAST HADDAM, CONNECTICUT

SCALE:	DATE:	SHEET NO.:	IDENT. NO.:
NO SCALE	07/25/23	2 OF 2	


Barn
House
300 ft
Church
N
W
E
S
Legend
Property line
roads
water
buildings
fence / walls
tree line
contours 5 ft