

GENERAL NOTES AND MAP REFERENCES

- THIS PLAN WAS PREPARED UTILIZING INFORMATION FROM THE FOLLOWING MAP REFERENCES AND SHALL BE USED IN CONJUNCTION WITH THESE REFERENCED MAPS:
 - FIRST SURVEY OF LAND OWNED BY GORDON FAMILY LTD. PARTNERSHIP AVON MOUNTAIN ROAD (U.S. ROUTE 44) & DEERCLIFF ROAD AVON, CONNECTICUT SCALE: 1"=100' DATE: DECEMBER 1997 Prepared by: HODGE SURVEYING ASSOCIATES, P.C. 1783 FARMINGTON AVENUE UNIONVILLE, CONNECTICUT HEREIN REFERRED TO AS "SURVEY PLAN" OR "SURVEY"
- FIELD TOPOGRAPHY SHOWN BY HODGE SURVEYING ASSOCIATES, P.C.
- PARCEL IS LOCATED WITHIN RU-2A ZONE.
- TOTAL AREA OF PARCEL = 117,388 SF = 2.69 ACRES.
- ANY EXISTING UNDERGROUND STRUCTURES AND SERVICES ARE SHOWN IN AS NEAR TO THEIR CORRECT POSITIONS AS POSSIBLE. HOWEVER, ALL SUCH LOCATIONS ARE APPROXIMATE AND ALL SUCH STRUCTURES OR SERVICES MAY NOT BE SHOWN.
- PROPERTY AND STREET LINE DATA SHOWN ON THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. PARCELS MAY BE SUBJECT TO EASEMENTS NOT SHOWN ON THIS SHEET. REFER TO SURVEY FOR EXACT PROPERTY LINE, STREET LINE AND EASEMENT DATA.

SEPTIC SYSTEM AND CONSTRUCTION NOTES

- SANITARY TESTING WAS PERFORMED BY BUCK AND BUCK, LLC, WITNESSED BY THE FARMINGTON VALLEY HEALTH DISTRICT AND FIELD LOCATED BY HODGE SURVEYING ASSOCIATES, P.C. AND/OR BUCK AND BUCK, LLC.
- PROVIDE THE FOLLOWING WHERE APPLICABLE:
 - EROSION CONTROL AS REQUIRED.
 - SHAKEDOWN PAD AT END OF DRIVEWAY (MINIMUM 4" THICK OF 2" STONE OVER FILTER FABRIC, 30' IN LENGTH)
 - HAYBALE DRIVEWAY WHEN NOT IN USE.
 - EROSION CONTROL AROUND CATCH BASINS.
- IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, MAY 2002, ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
- SURVEYOR SHALL ESTABLISH A SUITABLE BENCHMARK IN THE AREA OF THE SEPTIC SYSTEM
- HOUSE SEWER TO BE EXTRA HEAVY CAST IRON WITH LEAD JOINTS OR PVC (SCHEDULE 40).
- DISTRIBUTION PIPING SHALL BE PVC, ASTM D-3034, WITH RUBBER GASKET JOINTS.
- BASEMENT WINDOWS ARE NOT SHOWN. ADJUST GRADING AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE BETWEEN WINDOW SILLS AND FINISHED GRADE OR PROVIDE WINDOW WELLS AND DRAINS TO PROTECT WINDOW OPENINGS.
- ADJUST GRADING AS REQUIRED TO PROVIDE A MINIMUM OF 8" FROM FINISHED GRADE TO STRUCTURAL WOOD.
- PROVIDE RISERS ON MANHOLES OF SEPTIC TANK AS REQUIRED SO THAT COVERS ARE WITHIN 12" OF FINISHED GRADE.
- PROPOSED SEPTIC TANK HAS SUFFICIENT CAPACITY (2,000 GALLONS) FOR 5 BEDROOM HOUSE (1,500 GALLONS), ONE GARBAGE DISPOSAL (250 GALLONS) AND ONE LARGE (100-200 GALLON) TUB (250 GALLONS IN SEPTIC TANK).
- AREA OF SEPTIC LEACHING FIELD SHALL BE PROTECTED FROM TRAFFIC DURING CONSTRUCTION.
- ALL FILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- EXISTING HOUSE TO BE REMOVED FROM SITE.
- EXISTING WELL HAS BEEN FIELD LOCATED AND IS SHOWN. THERE ARE NO EXISTING WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEMS.
- THE EXACT LOCATION OF THE EXISTING WATER LINE THAT WILL SERVE THE PROPOSED HOUSE IS UNKNOWN. THE WATER LINE MUST BE LOCATED AND RELOCATED IF NECESSARY TO PROVIDE A MINIMUM 10' SEPARATION FROM ALL PARTS OF THE SEPTIC SYSTEM.
- ADDITIONAL SANITARY TESTING IS REQUIRED PER THE FARMINGTON VALLEY HEALTH DISTRICT (FVHD) TO CONFIRM THE DEPTHS TO LEDGE IN THE SEPTIC SYSTEM LEACHING AREA. THE RESULTS OF THIS TESTING MAY EFFECT THE ELEVATION OF THE LEACHING TRENCHES AND, IN TURN, THE ELEVATION OF THE PROPOSED HOUSE. **DO NOT BEGIN CONSTRUCTION OF THE PROPOSED FOUNDATION UNTIL THIS TESTING HAS BEEN PERFORMED AND THE ELEVATIONS FINALIZED AND FINAL APPROVAL OF THE SEPTIC SYSTEM DESIGN HAS BEEN OBTAINED FROM THE FVHD.**

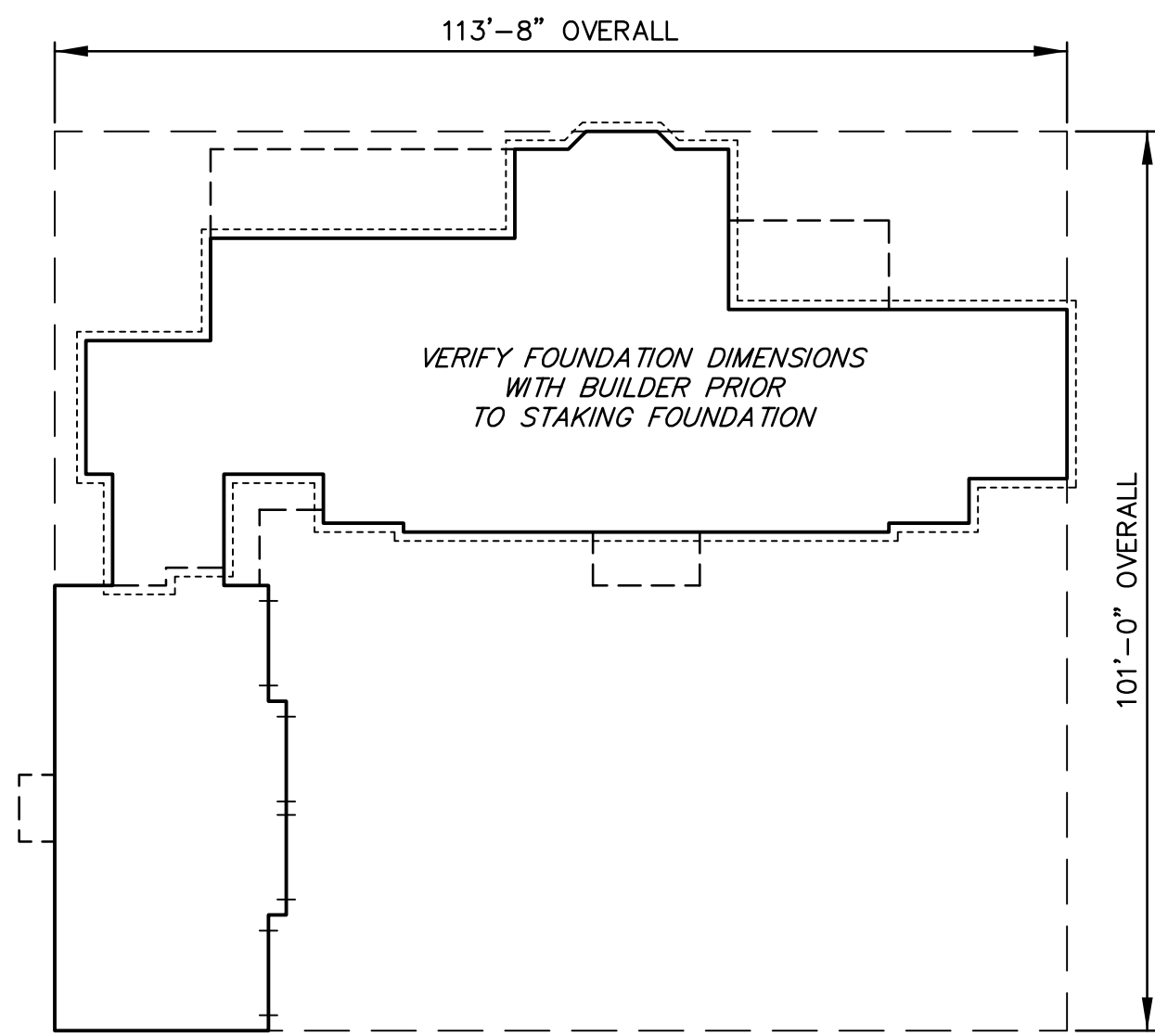
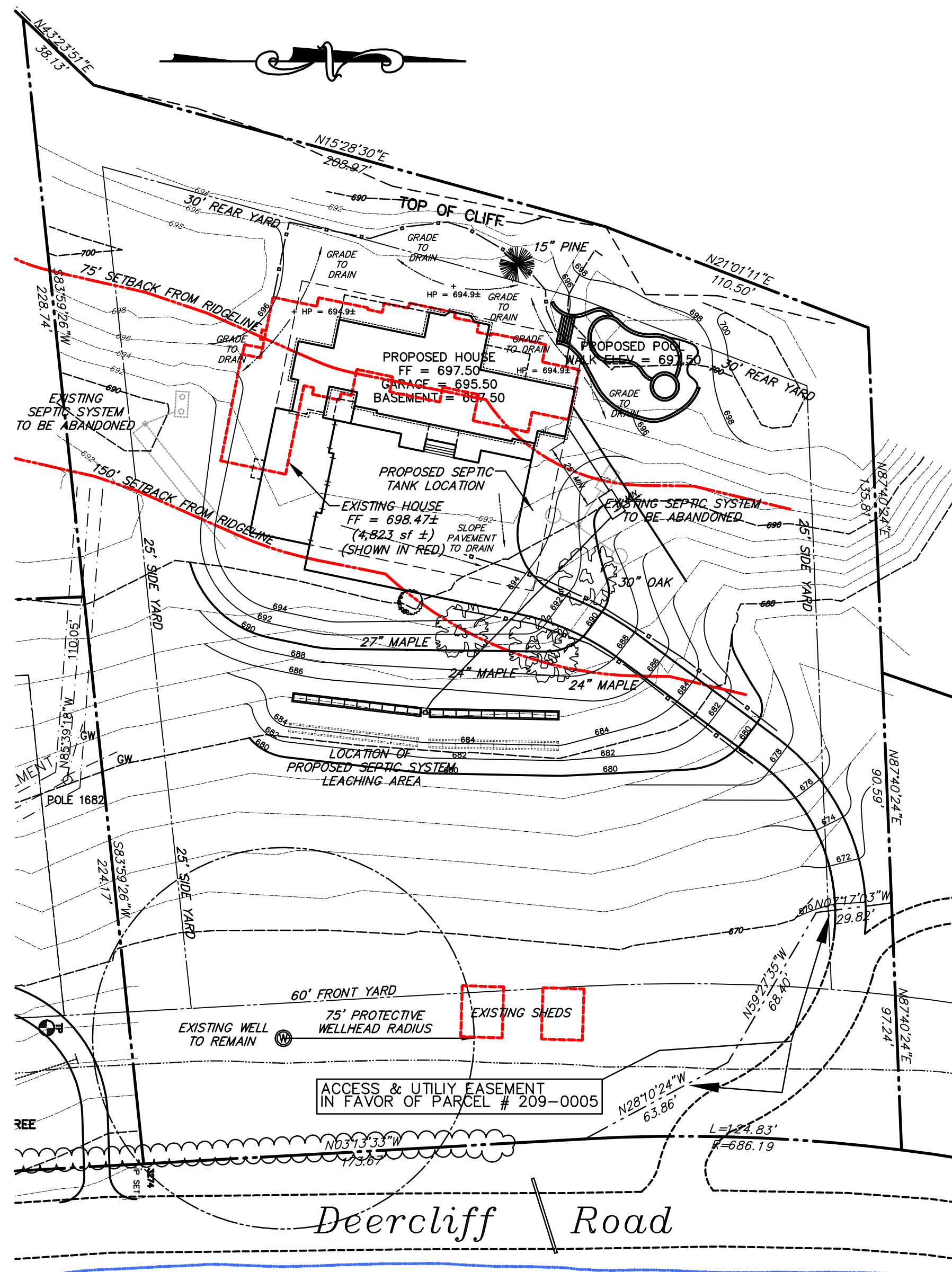
SOIL TESTING DATA

DP #45-1 (11/14/03)	0" - 6" TOPSOIL AND FOREST LITTER 6" - 23" BROWN SANDY LOAM 23" - 34" RED BROWN TILL	PT #15	> 60 MIN/INCH @ 25"	DP#501	LEDGE ENCOUNTERED @ 42" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED
DP #45-2 (11/14/03)	0" - 6" TOPSOIL AND FOREST LITTER 6" - 38" RED BROWN TILL	PT #16	20 MIN/INCH @ 25"	DP#502	LEDGE ENCOUNTERED @ 28" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED
DP #45-3 (11/14/03)	LEDGE @ 38" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED NO ROOTS	PT #25	48 MIN/INCH @ 25"	DP#503	HOLE DEPTH = 42" (NO LEDGE ENCOUNTERED) NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED
DP #45-4 (11/14/03)	LEDGE @ 40" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 32"	PT #45-1 (11/14/03)	27 MIN/INCH @ 19"	DP#504	LEDGE ENCOUNTERED @ 28" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED
DP #45-5 (11/14/03)	LEDGE @ 60" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 36" FR @ BOTTOM	PT #45-2 (11/14/03)	9 MIN/INCH @ 25"	PT #301 (11/18/08)	10 MIN/INCH @ 19"
DP #45-6 (11/14/03)	LEDGE @ 66" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 36" FR @ BOTTOM	PT #45-3 (11/14/03)	7 MIN/INCH @ 18"	PT #302 (11/18/08)	16 MIN/INCH @ 20"
DP #45-7 (11/14/03)	LEDGE @ 42" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 34"	PT #45-4 (11/14/03)	24 MIN/INCH @ 18.5"	PT #303 (11/18/08)	13 MIN/INCH @ 19"
		PT #45-5 (11/14/03)	20 MIN/INCH @ 18.5"	PT #304 (11/18/08)	30 MIN/INCH @ 20"
		DP #45-1 (11/14/03)	0" - 6" TOPSOIL AND FOREST LITTER 6" - 22" BROWN SANDY LOAM 22" - 66" RED BROWN TILL	PT #411	24 MIN/INCH @ 18.5"
		DP #45-2 (11/14/03)	LEDGE @ 60" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 36" FR @ BOTTOM		
		DP #45-3 (11/14/03)	LEDGE @ 42" NO GROUNDWATER OBSERVED NO MOTTILING OBSERVED ROOT DEPTH = 34"		

SOIL TESTING DATA (cont.)

NUMBER OF BEDROOMS:	5
DESIGN PERCOLATION RATE:	10.1 - 20 minutes/inch
REQUIRED LEACHING AREA:	1012.5 sf
DEPTH TO RESTRICTIVE LAYER:	22 inches (Soil Horizon)
MINIMUM LEACHING SYSTEM SPREAD (MLSS):	
HYDRAULIC GRADIENT =	10.1 - 15.0%
HYDRAULIC FACTOR =	HF = 28
FLOW FACTOR =	FF = 2.25
PERCOLATION FACTOR =	PF = 1.5
MLSS = HF x FF x PF =	28 x 2.25 x 1.5 = 94.5 IF REQUIRED
SYSTEM PROVIDED:	USE 12"H x 30"W MANTIS 430-10 w/ TOP DISTRIBUTION PIPE
EFFECTIVE AREA =	11.0 sftf
LENGTH PROVIDED =	(10 x 5' units) = 50' each => 50' x 2 rows = 100.0 f
AREA PROVIDED =	100 f x 11.0 sftf = 1100.0 sf
MLSS PROVIDED =	50' x 2 rows = 100.0 f
2000 GALLON TWO-COMPARTMENT SEPTIC TANK	
100% RESERVE AREA PROVIDED	

SEPTIC SYSTEM DESIGN DATA



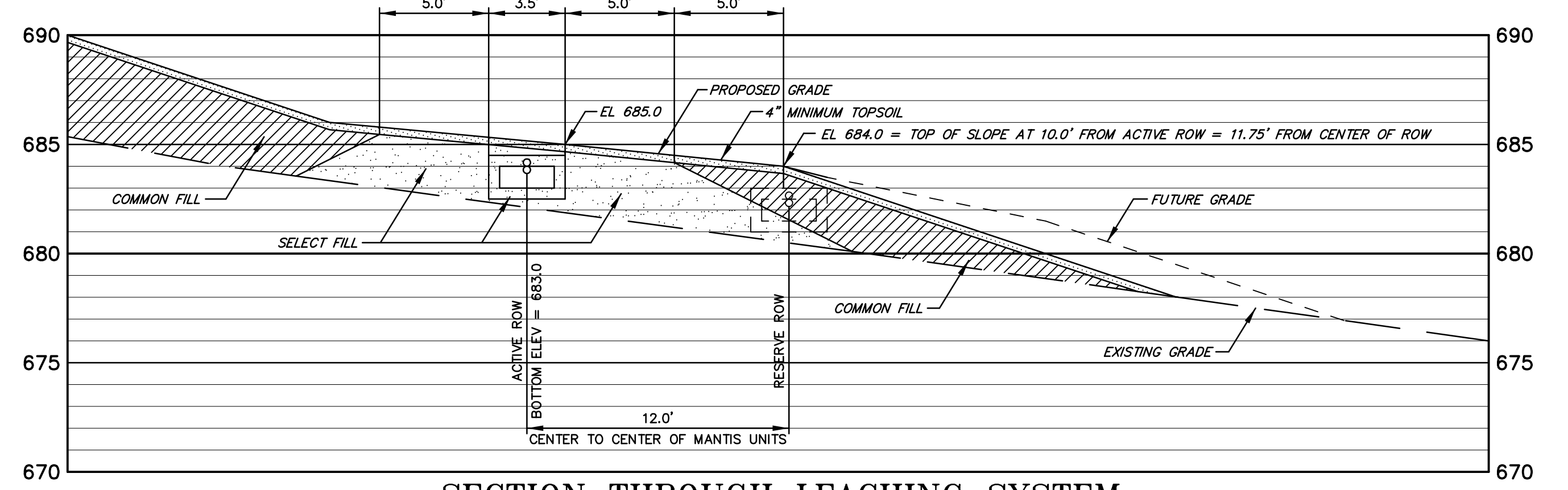
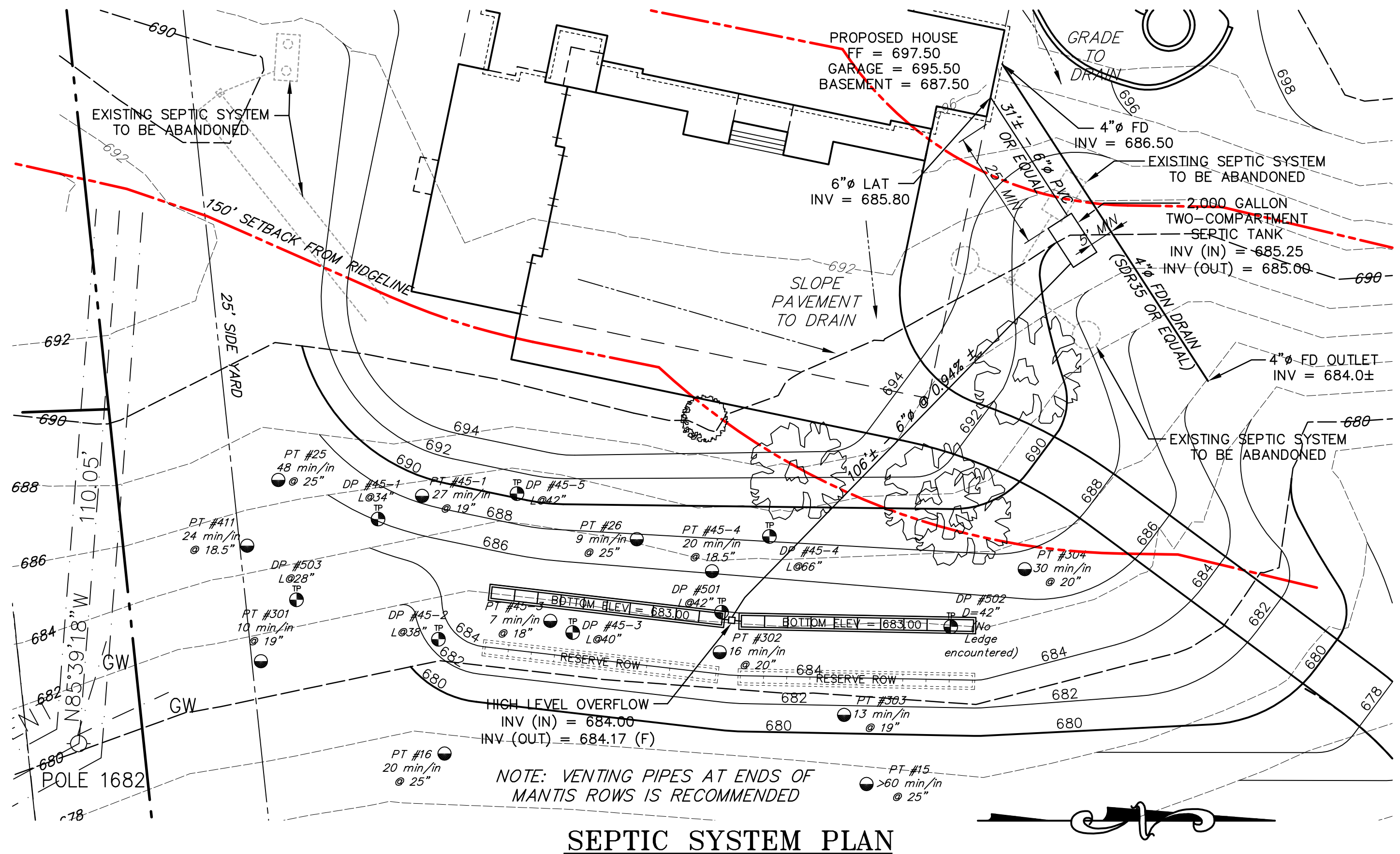
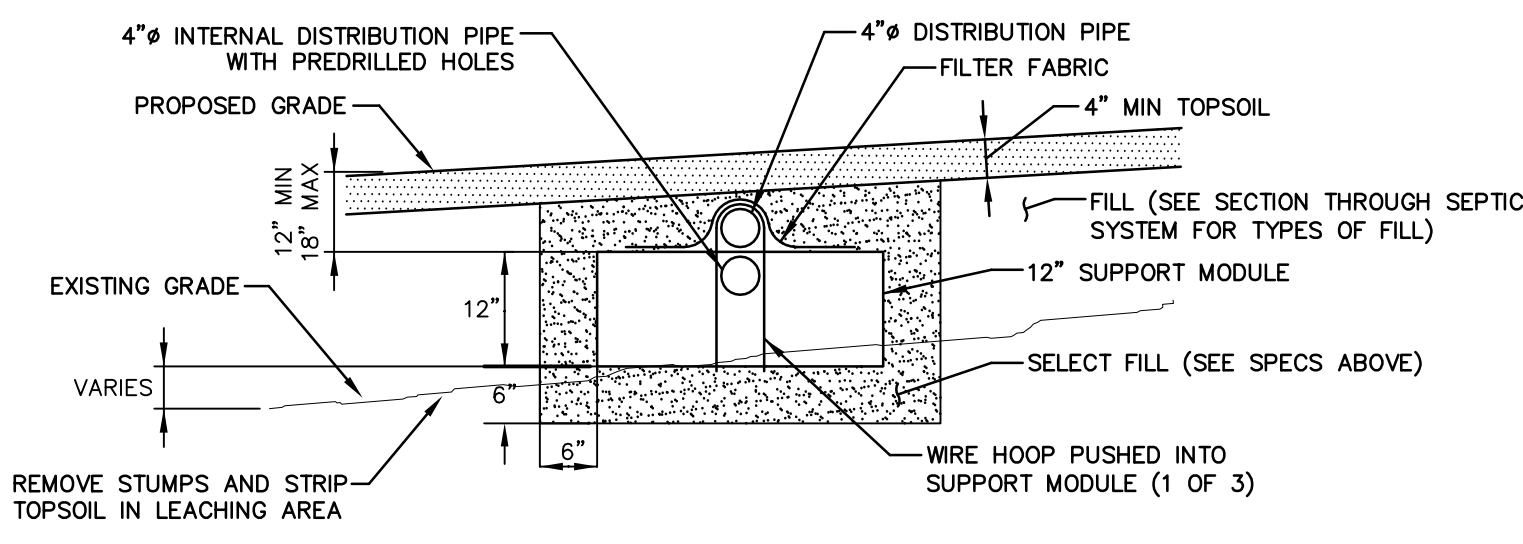
SELECT FILL MATERIAL. SUBMIT SIEVE ANALYSIS PRIOR TO PLACING FILL.
SELECT FILL USED IN SEPTIC SYSTEM CONSTRUCTION SHALL MEET THE FOLLOWING SPECIFICATION:

- THE FILL SHOULD NOT CONTAIN ANY MATERIAL LARGER THAN 3 INCHES.
- THE FILL SHOULD NOT CONTAIN MORE THAN 45% GRAVEL (GRAVEL FALLS BETWEEN THE NO. 4 & 3" SIEVES). NO MORE THAN 45% OF THE MATERIAL CAN BE RETAINED ON THE NO. 4 SIEVE.
- THE FILL LESS THE GRAVEL SHOULD MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE
NO. 4	100 %	100 %
NO. 10	70 - 100 %	70 - 100 %
NO. 40	10 - 50* %	0 - 75 %
NO. 100	0 - 20 %	0 - 5 %
NO. 200	0 - 5 %	0 - 2.5 %

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

4. THE FILL MUST ALSO MEET THE MANUFACTURER'S SPECIFICATIONS**
**MEDIUM COARSE WITH NO MORE THAN 10% PASSING A #100 SIEVE AND NO MORE THAN 5% PASSING A #200 SIEVE.



LEGEND

- 260 EXISTING CONTOURS
- 280 PROPOSED CONTOURS
- EXISTING STONE WALL
- PRIMARY LEACHING GALLERIES
- RESERVE LEACHING GALLERIES
- PT #104 - TEST NUMBER 5 min/in - PERC RATE @ 20" - HOLE DEPTH
- PT #104 - TEST NUMBER 12"/24"/48" - DEPTH TO FRACTURED ROCK (NO LEDGE OR FRACTURED ROCK ENCOUNTERED)

DISTRIBUTION BOX AND HIGH LEVEL OVERFLOW DETAIL
NO SCALE

SEPTIC SYSTEM DESIGN

REVISION	GENERAL	SCALE
8/26/09	TOWN COMMENTS (ADD'L GRADING, RIDGELINE SETBACKS)	1"=20'
9/15/09	REVISED HOUSE, ELEVATION AND LOCATION, GENERAL	DATE
10/6/09	ADDITIONAL NOTES, GENERAL	12/5/08
10/8/09	RELOCATED POOL	COMM. NO.
12/23/09	ADDITIONAL TESTING, REVISED SEPTIC SYSTEM	9730-5
1/25/10	MOVED SEPTIC TANK, ADDED NOTES PER FVHD APPROVAL	DRAWING NO.
2/12/10		SS45

DRWN BY: DEE/JFT
CHECKED BY: D E E

BUCK & BUCK ENGINEERS
HARTFORD, CONNECTICUT

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION EXCEPT UNDER THE SUPERVISION OF THE ENGINEER