

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
 10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
 802-864-2323 FAX: 802-864-2271 web: www.cae-vt.com

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 CHECKED: MJW
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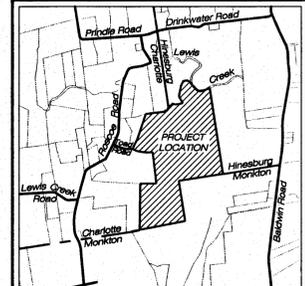
CLIENT:

THE NATURE CONSERVANCY

PROJECT:

DAVIS-EVERTS PROPERTIES

HINESBURG & CHARLOTTE VERMONT



LOCATION MAP
 1" = 3000'

DATE	CHECKED	REVISION

OVERALL SITE PLAN

DATE JAN. 26, 2010	DRAWING NUMBER C1
SCALE 1" = 200'	
PROJ. NO. 09200.01	

SOILS INFORMATION

SOIL SAMPLES TAKEN 11-6-90
BY OPEN PIT - BACKHOE

- SB-1 0-26" TOPSOIL LOAM SAND MOTTLED 1A"
- 26-37" SAND TILL W/ SMALL AMOUNT SILT MOTTLED
- 37-5' COARSE SAND GRAVEL LOAM
- SB-2 0-25" TOPSOIL LOAM SAND
- 25-5' SILT FINE SAND TILL & COARSE SAND LOAM MOTTLED
- SB-3 0-24" TOPSOIL LOAM SAND
- 24-5' MEDIUM COARSE SAND
- SB-4 0-16" TOPSOIL LOAM SAND
- 16-5' SILT LOAM TILL MOTTLED
- SB-5 0-23" TOPSOIL LOAM SAND
- 20-5' FINE SAND TILL MOTTLED
- SB-6 0-24" TOPSOIL LOAM SAND
- 24-5' FINE SAND TILL MOTTLED
- SB-7 0-16" TOPSOIL LOAM SAND
- 16-5' MEDIUM FINE SAND LOAM
- SB-8 0-16" TOPSOIL LOAM SAND
- 16"-26" BLACKY SILT LOAM
- 26-5' SAND TILL MOTTLED
- SB-9 0-21" TOPSOIL LOAM SAND
- 21-5' MEDIUM FINE SAND LOAM TILL
- SB-10 0-28" TOPSOIL LOAM SAND
- 28-5' SILT TILL MOTTLED
- SB-11 0-3' TOPSOIL FINE SAND LOAM LEDGE AT 3'
- SB-12 0-16" TOPSOIL LOAM SAND
- 16-5' BLOCKY FINE SAND LOAM MOTTLED 3B"
- SB-13 0-16" TOPSOIL LOAM SAND
- 16-5' MEDIUM FINE SAND LOAM

PERCOLATION TESTS TAKEN 11-14-90

METHOD "B"

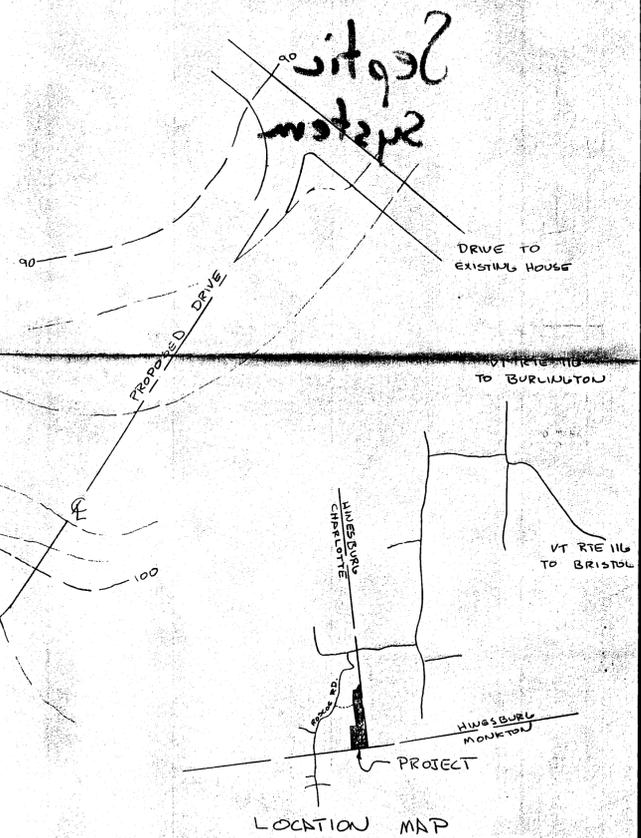
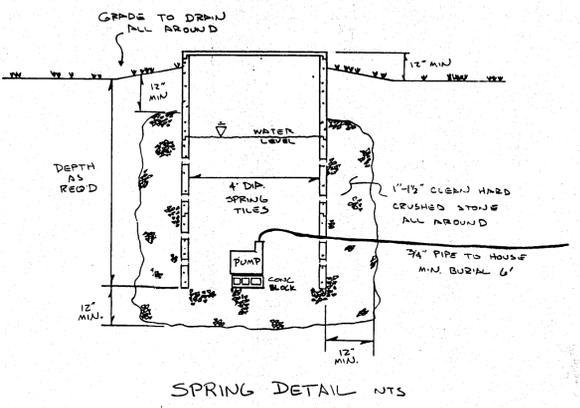
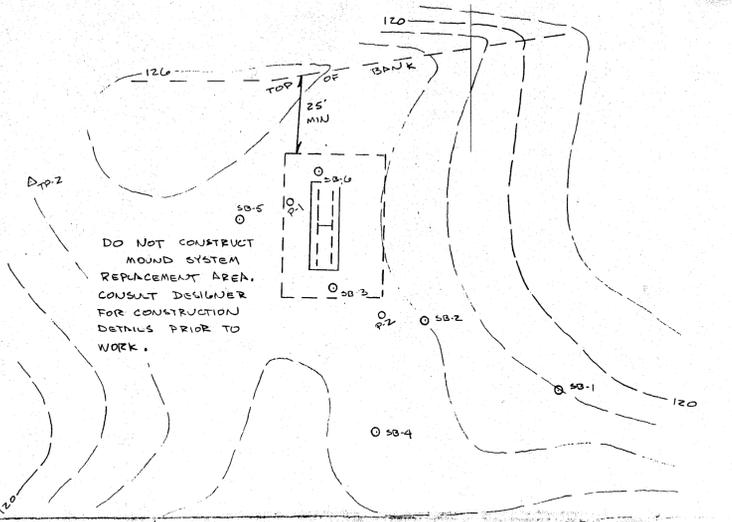
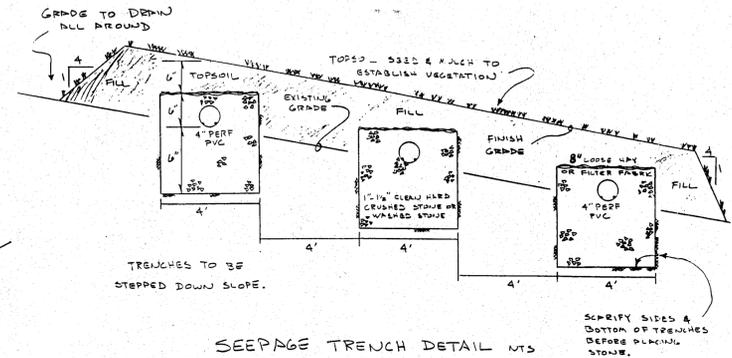
P-1 @ 20"	9
P-2 @ 14"	10
P-3 @ 20"	22
P-4 @ 24"	25

EXIST UNDEVELOPED SPRINGS
INSTALL CONC. SPRING TILES.
DEPTH AS REQUIRED.

GROUND ELEV. 114.6

PLOT PLAN
1"=960'

BASED ON EXISTING TOPOGRAPHY THE SEPTIC SYSTEM WILL NOT IMPACT ON THE SPRINGS.



DESIGN & CONSTRUCTION NOTES

- 1) ASSUME A 2 BEDROOM HOUSE @ 150 GAL/DAY/PER = 500 GPD.
- 2) USE PERCOLATION RATE 22 MIN. IN. LOAD TRENCHES @ .5" GAL/SF/D.
- 3) REQUIRED TRENCH AREA $\frac{500 \text{ GPD}}{.51 \text{ G/SF/D}} = 980 \text{ SQ. FT.}$
- 4) BOTTOM OF TRENCHES TO BE 6" BELOW EXISTING GRADE.
- 5) SCARIFY SIDES & BOTTOM OF TRENCHES PRIOR TO PLACING STONE.
- 6) PLACE 4" PERFORATED PVC PIPE IN CENTER OF TRENCH.
- 7) CAP END OF ALL PIPES 2" FROM TRENCH END.
- 8) PLACE 6" OF 1/2" CLEAN HARD CRUSHED STONE OR WASHED STONE BELOW PIPE, AT LEAST 2" OF STONE ABOVE PIPE.
- 9) COVER STONE WITH FILTER FABRIC OR 8" LOOSE HAY.
- 10) TOPSOIL, SEED & MULCH ALL DISTURBED AREAS TO ESTABLISH VEGETATION.
- 11) IT IS THE OWNERS/CONTRACTORS RESPONSIBILITY TO CONTACT THE CONSULTANT, MUNICIPALITY AND/OR STATE, PRIOR TO COVERING SYSTEM, IF INSPECTIONS ARE REQUIRED.

SEPTIC TANK

- 1) USE 1000 GALLON CONCRETE SEPTIC TANK.
- 2) PLACE TANK MINIMUM 10' FROM BUILDING.
- 3) USE 4" CAST IRON OR SCH 80 PVC FROM BUILDING TO TANK WITH ONE PIPE JOINT PLACED ON UNDISTURBED SOIL TO AVOID SETTLING.
- 4) SLOPE PIPE FROM BUILDING TO TANK AT 1/4" FT.
- 5) SLOPE PIPE FROM TANK TO "D" BOX AT 1/4" FT MIN.
- 6) HAVE SEPTIC TANK PUMPED OUT EVERY OTHER YEAR.

DISTRIBUTION BOX

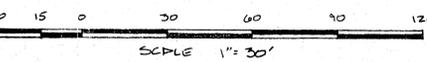
- 1) USE CONCRETE DISTRIBUTION BOX.
- 2) USE 4" SOLID PVC OUT OF BOX. SLOPE SOLID AT 1/4" FT. FOR 5' MINIMUM.
- 3) USE GROUT OR RUBBER SEALS TO MAKE INLET AND OUTLET WATER TIGHT.
- 4) ALL OUTLETS TO BE LEVEL.
 - A) USE WATER TEST TO LEVEL OUTLETS. ALL OUTLETS TO BE AT SAME ELEVATION OR USE "DIAL-A-FLOW" TYPE DEVICE.
 - B) ADD WATER TO BOX TO VERIFY EQUAL FLOW OUT OF PIPES. ADJUST AND RE-TEST AS REQUIRED.

LEACHFIELD

- 1) CONSTRUCT AS PER DETAIL.
- 2) LAY 4" PERFORATED PVC LEVEL.
- 3) GRADE SURFACE OF LEACHFIELD TO DRAIN.
- 4) DIVERT RUNOFF AWAY FROM LEACHFIELD.
- 5) SEE DESIGN & CONSTRUCTION NOTES.

SITE PLAN

TOPOGRAPHY BY TERMIT - STODIA
CONTOUR INTERVAL 2'
ASSUMED DATUM



ENGINEER:
WILLIAM LOWE, P.E. 2034
KELER AND LOWE INC.
30 FAULKNER ST.
WATERBURY, VT. 05677

GUEST HOUSE SEPTIC DESIGN

90 HOPE ST. PARCELS WITH ONE HOUSE EXISTING. OFF ROSCOE ROAD, TR. 39 CHARLOTTE, VERMONT

OWNERS: E. EVERTS & D. DAVIS
ROSCOE FORD
CHARLOTTE, VT 05445

SITE PLAN

WATER - SEWER - TOPOGRAPHY

NOVEMBER 28, 1990

SHEET 1 OF 1

CONSULTANT:
GUNNER MCCAIN
SITE TECH B237
PO BOX 193
WATERBURY CIR VT 05677

Davis-Everts Test Pitting
10/19/09

Dave Marshall
Randy Fisher
Spencer Harris

TP #1
0"-4" Dark brown fine sandy loam
4"-6" Loose tan fine sandy loam
6"-17" Medium compact tan fine sandy loam
17"-43" Compact light brown very fine sandy loam
43"-46" Compact brown fine sand
46"-56" Firm brown silty clay

SHGWT 17" No seeps
Roots to 29" No ledge

TP #2
0"-5" Loose brown fine sandy loam
5"-12" Loose light brown very fine sandy loam
12"-20" Medium compact tan fine sandy loam
20"-35" Compact tan very fine sandy loam
35"-52" Medium compact tan fine sand
52"-56" Firm brown silty clay

SHGWT 19" No seeps
Roots to 28" No ledge

TP #3
0"-3" Loose Dark brown very fine sandy loam
3"-12" Loose light brown very fine sandy loam
12"-19" Loose tan very fine sandy loam
19"-40" Compact grey brown fine sandy loam
40"-48" Loose light brown fine sandy loam
48"-58" Compact brown fine sandy loam

SHGWT 18" No seeps
Roots to 32" No ledge

TP #4
0"-3" Loose dark brown fine sandy loam
3"-8" Loose light brown fine sandy loam
8"-16" Medium compact tan fine sandy loam
16"-24" Medium compact light brown fine sandy loam
24"-44" Compact light brown fine sandy loam
44"-48" Medium compact light brown fine sand
48"-54" Compact brown fine sandy loam

SHGWT 14" No seeps
Roots to 36" No ledge

TP #5
0"-5" Loose dark brown fine sandy loam
5"-12" Loose light brown fine sandy loam
12"-20" Loose tan very fine sandy loam
20"-56" Compact brown very fine sandy loam

SHGWT 19" No seeps
Roots to 31" No ledge

TP #6
0"-2" Loose dark brown fine sandy loam
2"-11" Loose light brown very fine sandy loam
11"-26" Loose brown tan fine sandy loam
26"-58" Compact brown very fine sandy loam

SHGWT 25" No seeps
Roots to 39" No ledge

TP #7
0"-4" Loose dark brown fine sandy loam
4"-10" Loose light brown very fine sandy loam
10"-22" Loose tan very fine sandy loam
22"-30" Medium compact tan very fine sandy loam
30"-54" Compact light brown fine sandy loam

SHGWT 21" No seeps
Roots to 35" No ledge

TP #8
0"-5" Loose dark brown fine sandy loam
5"-12" Loose brown fine sandy loam
12"-23" Medium compact light brown fine sandy loam
23"-39" Compact tan fine sandy loam
39"-43" Medium compact brown fine sand
43"-53" Medium compact light brown loam

SHGWT 21" No seeps
Roots to 31" No ledge

TP #9
0"-6" Dark brown loose fine sandy loam
6"-13" Loose brown very fine sandy loam
13"-20" Loose tan very fine sandy loam
20"-37" Medium compact brown loam
37"-50" Compact brown silt loam

SHGWT 19" No seeps
Roots to 27" No ledge

TP #10
0"-3" Loose brown very fine sandy loam
3"-12" Loose tan fine sandy loam
12"-20" Medium compact light brown fine sandy loam
20"-26" Medium compact light brown fine sandy loam mottled
26"-39" Compact grey brown fine sandy loam
39"-49" Compact brown fine sandy loam

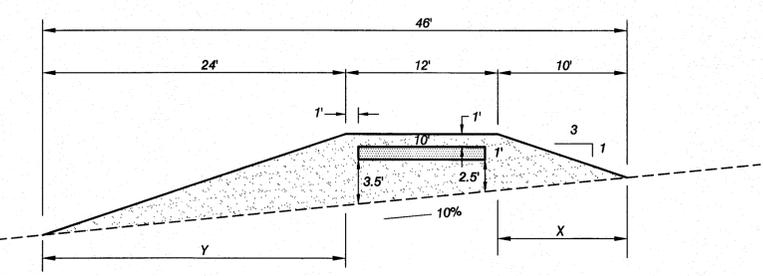
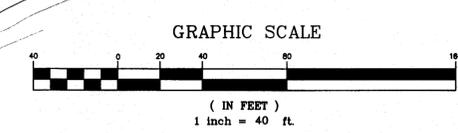
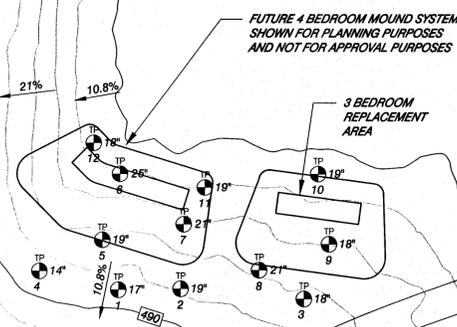
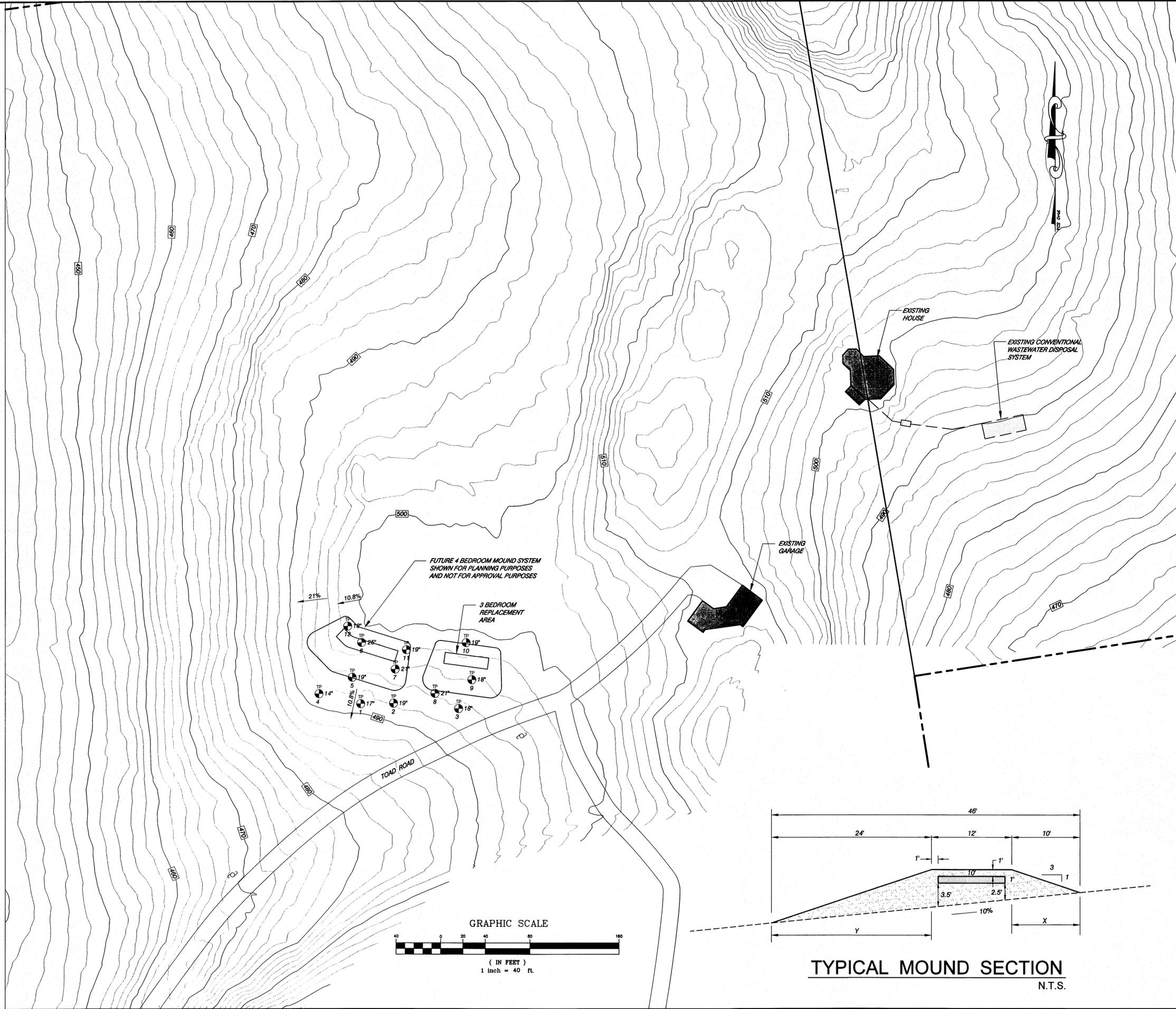
SHGWT 19" No seeps
Roots to 36" Ledge at 49"

TP #11
0"-3" Loose dark brown very fine sandy loam
3"-8" Loose tan fine sandy loam
8"-18" Loose light brown very fine sandy loam
18"-36" Compact light brown fine sandy loam
36"-42" Loose tan fine sand
42"-52" Grey brown loose fine sand
52"-58" Compact brown very fine sandy loam

SHGWT 19" No seeps
Roots to 23" No ledge

TP #12
0"-5" Loose dark brown fine sandy loam
5"-14" Loose tan fine sandy loam
14"-19" Loose light brown very fine sandy loam
19"-48" Compact brown fine sandy loam

SHGWT 18" No seeps
Roots to 24" Ledge at 48"



TYPICAL MOUND SECTION
N.T.S.

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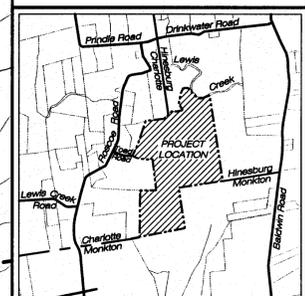
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DAVIS-EVERTS
PROPERTIES

HINESBURG &
CHARLOTTE
VERMONT



LOCATION MAP
1" = 300'

DATE	CHECKED	REVISION

WASTEWATER
DISPOSAL
SITE PLAN

DATE JAN. 26, 2010	DRAWING NUMBER C2
SCALE 1" = 40'	
PROJ. NO. 09200.01	