

S2S Market Hill Rd (Lora)

Tim Maginnis (413) 527-5291

Final Insp 9-11-08 Called + LMO Tim @ 4:15 pm

Need :- Surface grading concerned with water accumulating on top of tank area and creating a problem. Need grade/elevations solution

- Float switches (3) need to be moved apart and protect the area against the ~~the~~ metal from wear and erosion.

9/12/08. Drainage swale <sup>away from tanks</sup> + towards (side + downspouts)  
Grading plan + correction <sup>midst</sup> <sup>vertical</sup> <sup>down</sup> <sup>manhole</sup>  
Move tanks <sup>manhole</sup>  
Lower electrical tanks  
Separate float switches + protect wiring around hose  
Well report needed.   
↓  
bushings  
piping  
fitting.

1/05/08 Spoke to Tim - waiting for As-Built (need Well Water test results)

1/5/09 Returned Dave Waskiewicz's call, water tests for well ok given that well not in use (↑ turbidity + iron)

1/7/09 Called Karls Excavating - will send in someone to sign Cert of Compl. this wk.

float switches



Commonwealth of Massachusetts  
 City/Town of Amherst  
**Certificate of Compliance**  
 Form 3

COPY RECEIVED  
 9-15-08

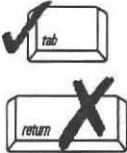
DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

**This is to Certify** that the following work on an On-Site Sewage Disposal System

**Important:**  
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

- Construction of a new system
- Repair or replacement of an existing system
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):



DSCP Number \_\_\_\_\_ DSCP Date \_\_\_\_\_  
 Country Side Homes c/o Steve Bercume - 273 Hollond Rd. - Sturbridge, MA 01518  
 Facility Owner \_\_\_\_\_  
 Market Hill Road (525 Market Hill Rd)  
 Street Address or Lot # \_\_\_\_\_  
 Amherst MA 01518  
 City/Town State Zip Code

**Designer Information:**

Timothy E. Maginnis R.S.  
 Name \_\_\_\_\_  
 Signature *Timothy E. Maginnis*

Name of Company \_\_\_\_\_  
 SEPT. 11, 2008  
 Date Inspection ON 9-10-08 - 6:00 PM

**Installer Information:**

*Alen Konieczny*  
 Name \_\_\_\_\_  
 Signature *Alen Konieczny*

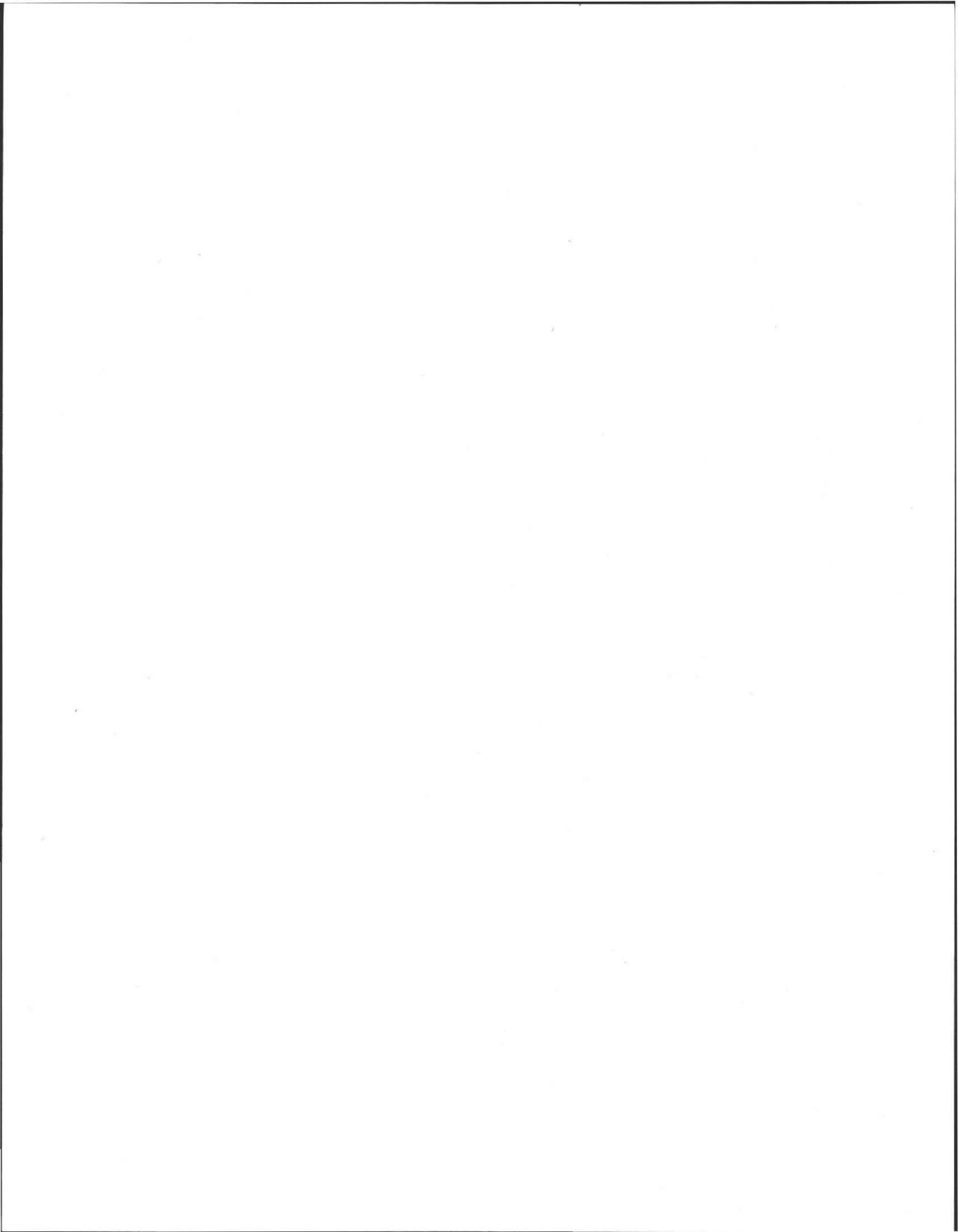
Karls Excavating  
 Name of Company \_\_\_\_\_  
 9/11/08  
 Date

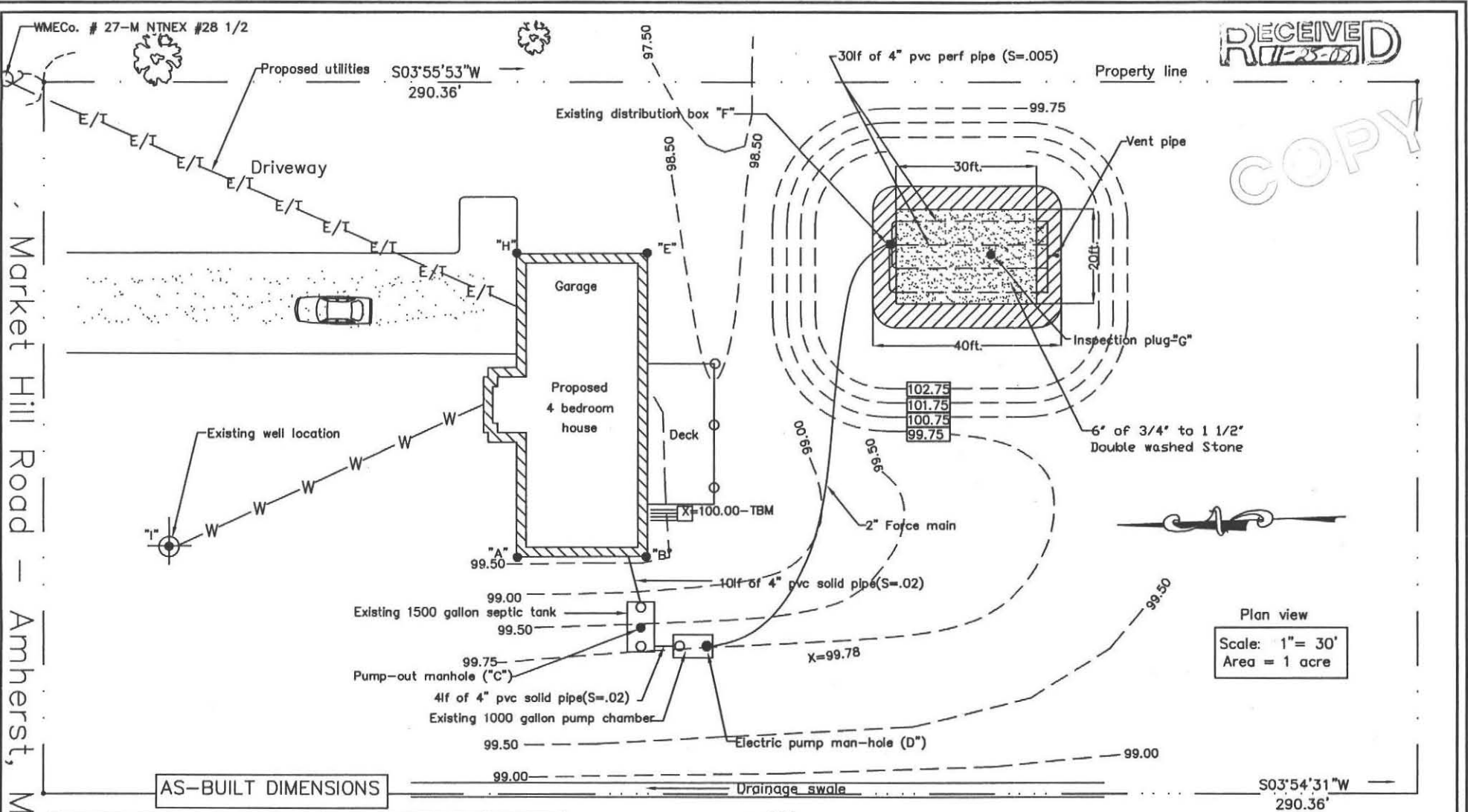
Use of this system is conditioned on compliance with the provisions set forth below:

- a. No garbage disposai allowed

The issuance of this certificate shall not be construed as a guarantee that the system will function as designed.

Town of Amherst / BOH  
 Approving Authority \_\_\_\_\_  
 Signature *Ellen Boland MPH, RS* Date 01-06-09





Market Hill Road - Amherst, Massachusetts

"A" to "C" = 30'-6"	
"A" to "D" = 43'-6"	
"B" to "C" = 15'-6"	
"B" to "D" = 22'-0"	
"B" to "F" = 85'-0"	
"B" to "G" = 103'-6"	
"E" to "F" = 52'-6"	
"E" to "G" = 75'-10"	
Existing well location	
"H" to "I" = 96'-9"	
"A" to "I" = 74'-2"	

COMMONWEALTH OF MASSACHUSETTS  
TIMOTHY E. MAGINNIS  
No. 982  
REGISTERED  
SANITARIAN

*Timothy E. Maginnis*

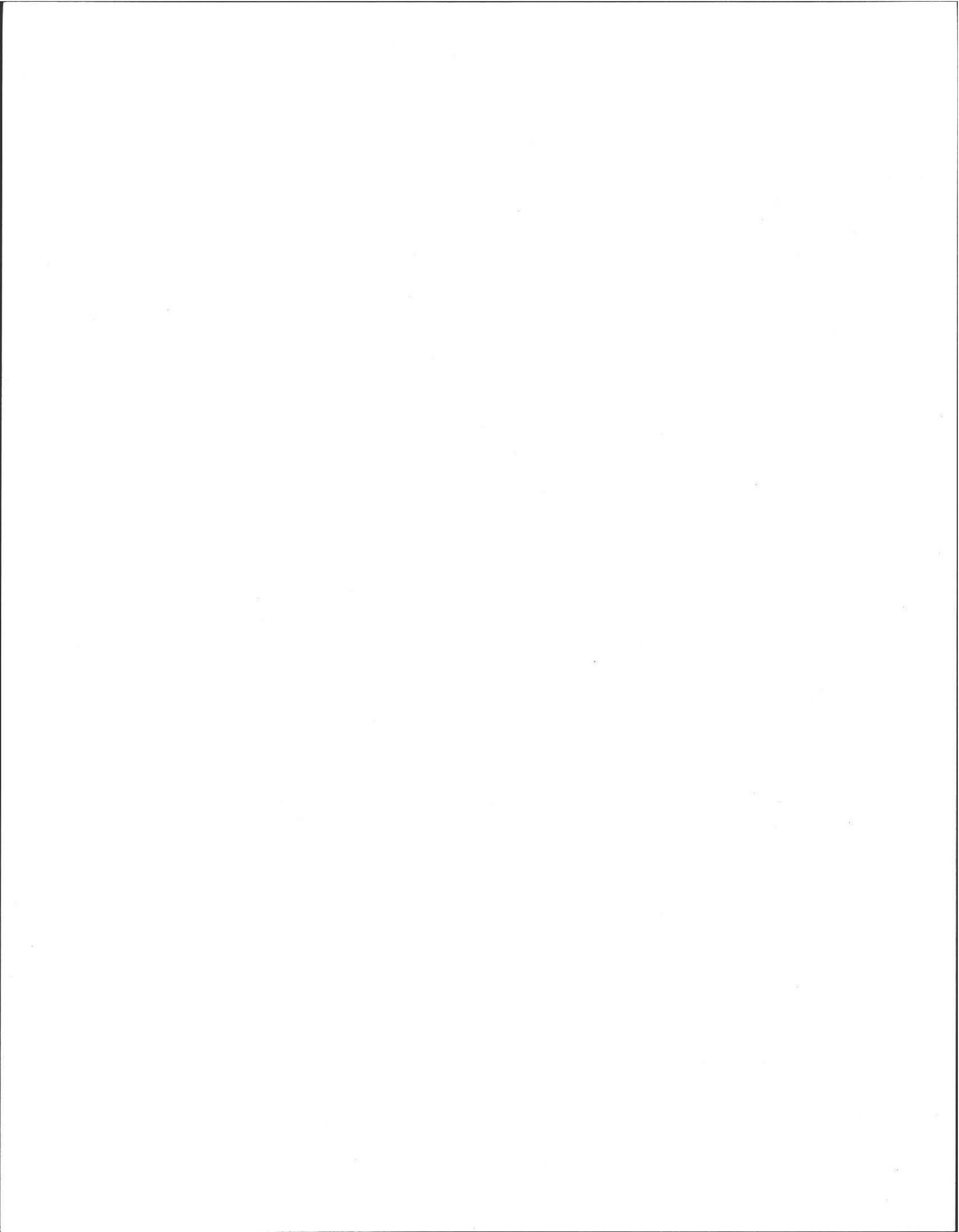
October 15, 2008

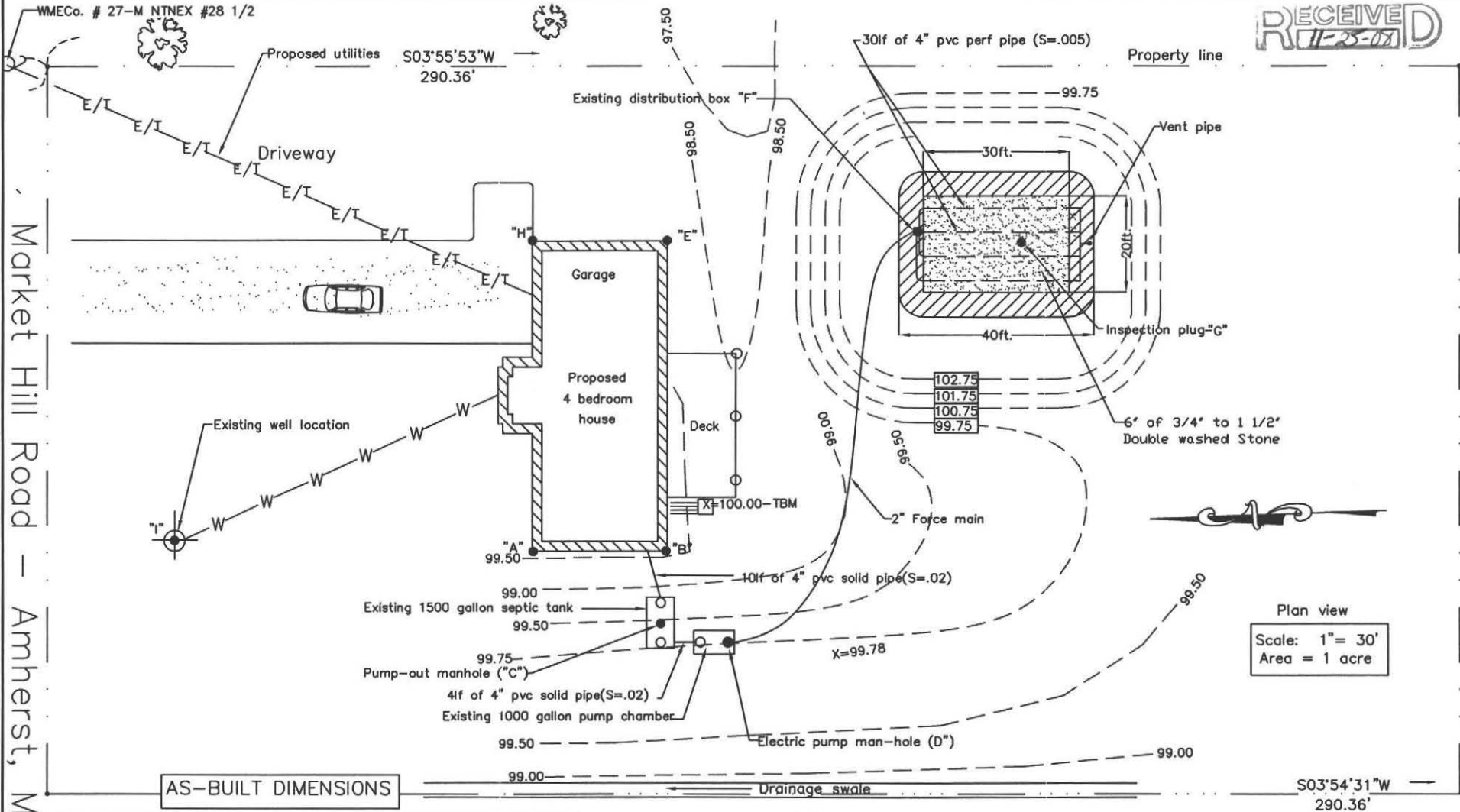
FINAL CONTOURS  
AS-BUILT PLAN

SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN

525 LOT # 2 Market Hill Road  
Amherst, Massachusetts

Owner: Country Side Homes  
Address: 273 Holland Road  
Sturbridge, MA. 01518  
Telephone: (508) 579 - 6201





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11-23-08

Market Hill Road - Amherst, Massachusetts

AS-BUILT DIMENSIONS

- "A" to "C" = 30'-6"
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- Existing well location
- "H" to "I" = 96'-9"
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October 15, 2008

Plan view  
Scale: 1" = 30'  
Area = 1 acre

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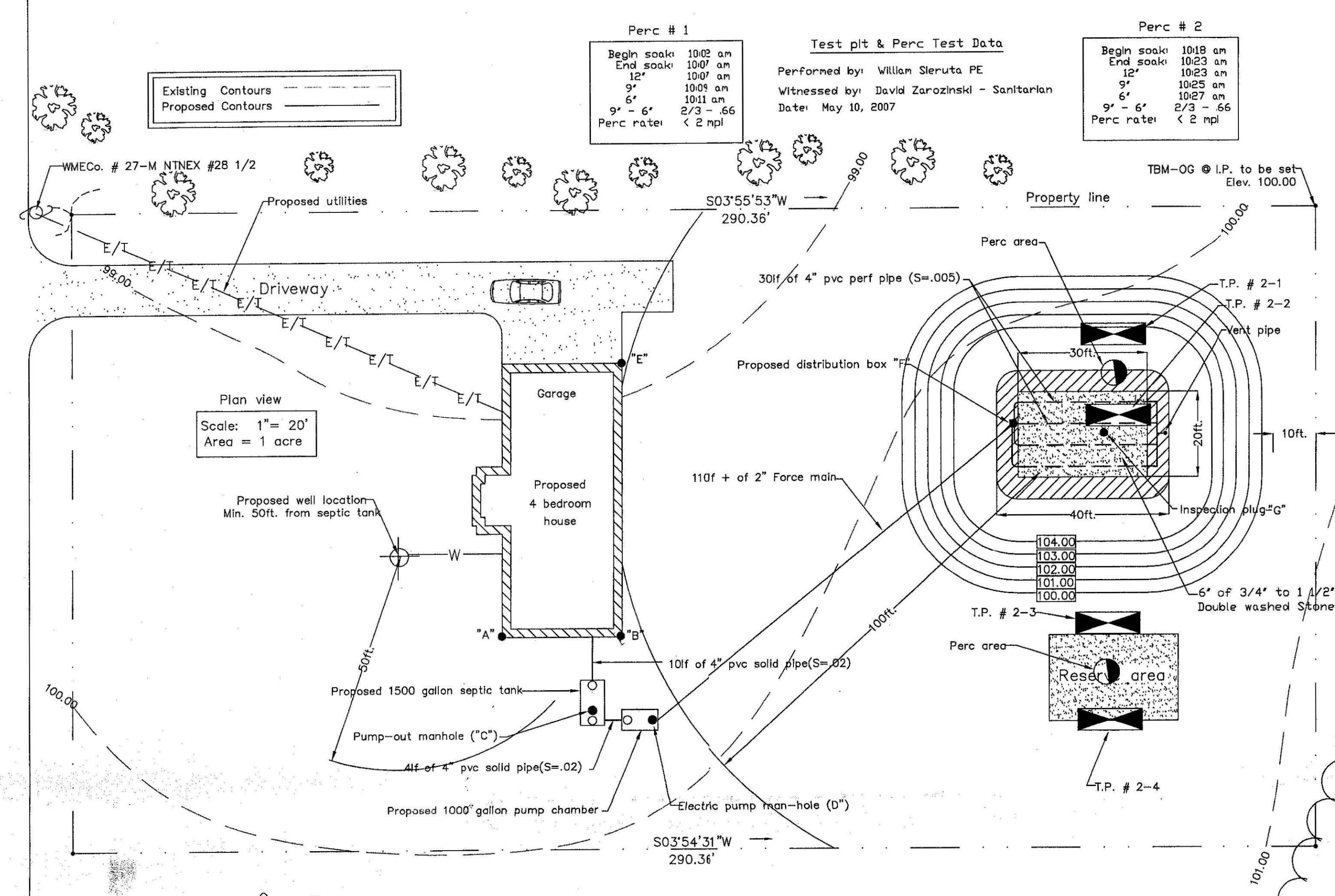
1911

1911

1911



Market Hill Road - Amherst, Massachusetts



**Test pit & Perc Test Data**  
 Performed by: William Sieruta PE  
 Witnessed by: David Zarozinski - Sanitarian  
 Date: May 10, 2007

Perc #	Begin soak	End soak	12"	9"	6"	9' - 6"	Perc rate
Perc # 1	10:02 am	10:07 am	10:11 am	10:15 am	10:20 am	2/3 - 66"	< 2 npl
Perc # 2	10:18 am	10:23 am	10:25 am	10:27 am	10:27 am	2/3 - 66"	< 2 npl

T.P. # 2-4  
 G.W. Elev. 100.00  
 T.P. Elev. 100.00

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other: (Structure, Stones, Boulders, Consistency, (% gravel))
0 - 10"	Ap	S / L	10YR 4/2	10YR 5/8	20% Few cobbles, massive friable, structureless
10" - 16"	Bw	L / S	10YR5/6	10YR 6/1	
16" - 120"	C	Silty sandy loam, Silt loam	5Y 4 / 3	10YR 4/4 36"	

T.P. # 2-2  
 G.W. Elev. 100.00  
 T.P. Elev. 100.00

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other: (Structure, Stones, Boulders, Consistency, (% gravel))
0 - 10"	Ap	S / L	10YR 4/2	10YR 5/8	20% Gravel Few cobbles,
10" - 16"	Bw	L / S	10YR5/6	10YR 6/1	
16" - 120"	C	Silty sandy loam, Silt loam	5Y 4 / 3	10YR 4/4 38"	

Parent Material (geologic)  
 Weeping from face: 75" Depth to Bedrock: > 120"  
 Depth to Groundwater:  
 Estimated Seasonal High Groundwater: 36"

Parent Material (geologic)  
 Weeping from face: 75" Depth to Bedrock: > 120"  
 Depth to Groundwater:  
 Estimated Seasonal High Groundwater: 36"

T.P. # 2-3  
 G.W. Elev. 100.50  
 T.P. Elev. 100.50

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other: (Structure, Stones, Boulders, Consistency, (% gravel))
0 - 10"	Ap	S / L	10YR 4/2	10YR 5/8	20% Gravel 5% cobbles, massive, friable
10" - 16"	Bw	L / S	10YR5/6	10YR 6/1	
16" - 120"	C	sand, coarse	5Y 4 / 3	10YR 4/4 38"	

T.P. # 2-4  
 G.W. Elev. 100.50  
 T.P. Elev. 100.50

Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other: (Structure, Stones, Boulders, Consistency, (% gravel))
0 - 10"	Ap	S / L	10YR 4/2	10YR 5/8	20% Gravel Some cobbles stones massive, friable
10" - 16"	Bw	L / S	10YR5/6	10YR 6/1	
16" - 120"	C	sand, coarse	5Y 4 / 3	10YR 4/4 38"	

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 Estimated Seasonal High Groundwater: 36"

**Title-5 sand**  
 Title-5 sand shall consist of on-site or imported material. The fill material shall be clean coarse washed sand or other coarse granular material free from clay, fines, dust, organic matter, large stones, masonry, stumps, frozen clumps of earth, wood, tree branches, and waste construction debris. It shall not contain any material larger than 2 inches. A sieve analysis using the # 4 sieve shall be performed on a representative sample of the fill. Up to 45% by weight of the fill sample may be retained on the # 4 sieve. Mixtures and layers of different classes of soil shall not be used.

**AS-BUILT DIMENSIONS**  
 CONTRACTOR TO TAKE TWO TIES FROM REFERENCED POINTS (A - B - C - D - E - F - G) AND RECORD DISTANCES ON PLAN.

**Invert Elevations:**

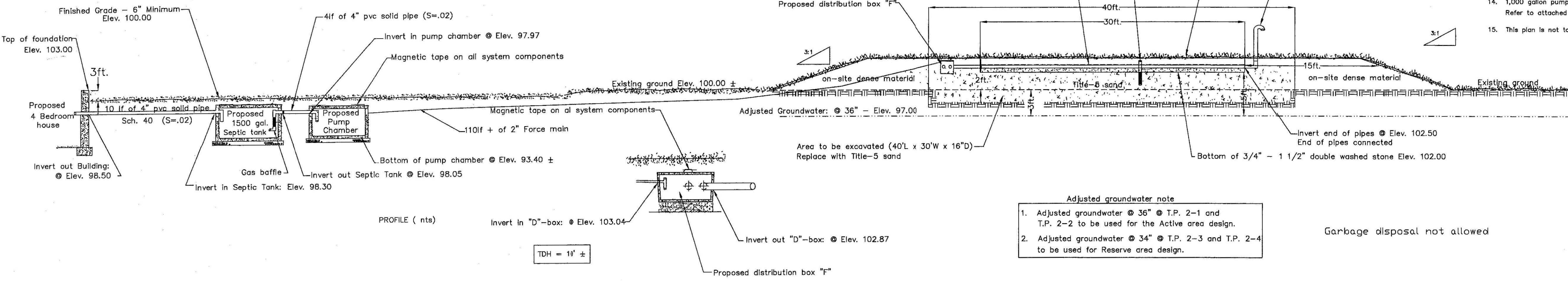
'A' to 'C'	_____
'A' to 'D'	_____
'A' to 'E'	_____
'A' to 'F'	_____
'A' to 'G'	_____
'E' to 'F'	_____
'E' to 'G'	_____

**Invert Elevations:**

Invert out Building:	Elev. 98.50 ±
Invert in Septic Tank:	Elev. 98.30 ±
Invert out Septic Tank:	Elev. 98.05
Invert in Pump chamber:	Elev. 97.97
Bottom of Pump Chamber:	Elev. 93.40
Invert in "D"-box:	Elev. 103.04
Invert out "D"-box:	Elev. 102.87
Invert in pipes:	Elev. 102.65
Invert end of pipes:	Elev. 102.50
Bottom of Stone:	Elev. 102.00
Adjusted Groundwater:	36" - Elev. 97.00

**Design Flow:**  
 Design: 4 Bedroom dwelling @ 110 gpd/bedroom = 440 gpd  
**Septic Tank Required:**  
 440 GPD x 200 % = 880 gallons  
 Proposed Septic Tank Provided: = 1,500 gal.  
**Size of Leaching Facility Required:**  
 Perc. Rate = < 2 minutes/inch  
 Design Perc. Rate = 5 minutes/inch  
 Effluent loading rate = .74 gals / sq. ft.  
 440 gpd x 0.74 gals / sq. ft. = 595 sq. ft. required  
**Size of Leaching Facility Provided:**  
 Bottoms: ( 30'L x 20'W ) = 600 sq. ft. x .74 sq. ft. / gal = 444 gallons  
 Totals: 600 sq. ft. x 0.74 gals / sq. ft. = 444 gpd provided  
 595 sq. ft. required - 600 sq. ft. provided

- Construction notes**
- Proposed septic tank, pump chamber and distribution box pipes to be a minimum 4" pvc Sch. 40 solid pipe. Distribution box outlet pipes to be laid level for at least two feet.
  - Property lines are shown for reference only. All setback requirements of Title-5 shall be met. \* NOT FOR CONVEYANCE \*
  - Water line, electric line and telephone lines are shown for reference only. Points of entry may vary.
  - Exposed soil to be graded, loamed, seeded and hay mulch immediately upon completion to avoid soil erosion.
  - All work to be done in accordance with the State Environmental Code Title-5.
  - Location and configuration of house is shown for reference only. Actual size, configuration and location may vary.
  - This system is not designed for a garbage disposal. Therefore, a garbage disposal is not allowed.
  - Septic tank and pump chamber should be inspected and cleaned at least every three years.
  - Elevations shown are minimum elevations and for reference only.
  - Contractor and homeowner to determine final grades.
  - Contractor to clearly mark top of proposed distribution box for future reference.
  - There are no wells located within 200' of proposed soil absorption system. See Plan.
  - Effluent filter should be inspected and cleaned by flushing with hose at least every year.
  - 1,000 gallon pump chamber buoyancy is required to prevent from floating when empty. Refer to attached calculations on pg. 2 of 2.
  - This plan is not to be used for a Determination of Applicability to the Wetlands Protection Act.



**Adjusted groundwater note**

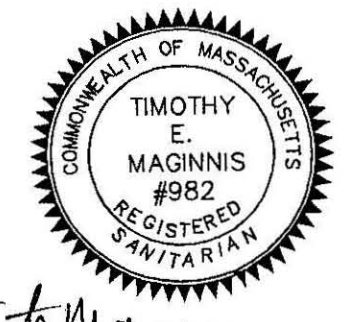
- Adjusted groundwater @ 36" @ T.P. 2-1 and T.P. 2-2 to be used for the Active area design.
- Adjusted groundwater @ 34" @ T.P. 2-3 and T.P. 2-4 to be used for Reserve area design.

Garbage disposal not allowed

**SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN**  
 LOT # 2 Market Hill Road  
 Amherst, Massachusetts

Owner: Bercome Builders Randy Bercome  
 Address: 25 Sylvia Hills 273 Hilland Rd.  
 Hadley, MA 01035 Askdale, MA 01518  
 Telephone: (413) 549-4270 508-216-3473

Designer:  
 Timothy E. Maginnis R.S.  
 70 Montague Road  
 Westhampton, MA.  
 Telephone: (413) 527-5291  
 Jan. 24, 2008  
 Scale: As noted Pg. ( 1 of 2 )



Checked  
 DE 1/24/08  
 02-11-08  
 Amherst  
 BSH