

# BRIAN L. HEWITT ENGINEERING L.L.C.

## Site Evaluation Report December 1, 2008

Job # 08-177.1

Property Address: Near 198 Badger Rd. Kelso Washington 98626

Parcel Number: Portion of WD2211017

Applicant Name: Steve Peeler, 2210 West Main St. #107 PMB 346 Battleground, Washington 98604

Number of Bedrooms for Septic Design: 3      Acres: 2.01      Lot 1 of 4

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JAN 14 2009  
COWLITZ COUNTY  
BUILDING & PLANNING

### Site Characteristics

General Topographic Characteristics: Hazeldell Gravelly Silt Loam

Drainage Characteristics: Good, no surface water

Slopes: General:      20-30 %      Proposed Drainfield Location:      30 %

Geology: Type of Bedrock & depth: none

Vegetation: Mixed brush and timber

Distance to, and type of, nearest surface water: none  
(If less than 250 ft.)

Distance to nearby wells: Maintain 100'+

Distance to public Sewers: none

Other Structures on Property: none

### Engineer's statement regarding type of system required:

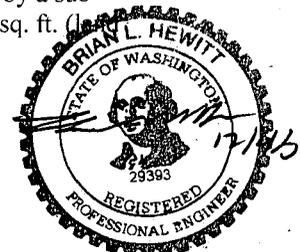
Based upon the soil analysis performed November 29, 2006 & November 24, 2008 it is my determination that the primary on-site sewage system is approved for a Pressure Distribution system.

The primary Drainfield area will require 900 sq. ft. (of Drainfield) minimum and 2,386 sq. ft. (land area) or 64 ft. by 38 ft.

The reserve area is approved for an Advantex Treatment with UV disinfection system followed by a sub-surface drip drainfield system and will require 1,350 sq. ft. (of Drip Tube) minimum and 4,050 sq. ft. (land area) or 64 ft. by 64 ft.

Submitted by: Brian L. Hewitt P.E.      # 29393

Date: December 1, 2008



08121806



# BRIAN L. HEWITT ENGINEERING L.L.C.

## Soil Evaluation Report

December 1, 2008

Job # 08-177.1

Property Address: Near 198 Badger Rd. Kelso Washington 98626

Parcel Number: Portion of WD2211017

Applicant Name: Steve Peeler, 2210 West Main St. #107 PMB 346 Battleground, Washington 98604

Section 22      Township 7N      Range 1W      Tax Lot #

Subdivision Number      Lot 1      of 4

### Soil Information

As mapped by U.S. Soil Conservation Service (S.C.S.): Hazeldell Gravelly Silt Loam

### Soil Profile:

<u>Test Hole #</u>	<u>Depth</u>	<u>Description</u>	<u>Comments</u>
<u>Test Hole #1</u>	0-16	Silty Clay Loam (sicl)	Dark Brown sbk/2/m
	16-48	Silty Clay Loam (sicl)	Brown pr/1/m
	Roots to 40", Moderate Mottling at 42, No Water		
<u>Test Hole #2</u>	0-16	Silty Clay Loam (sicl)	Dark Brown sbk/2/m
	16-48	Silty Clay Loam (sicl)	Brown pr/1/m
	Roots to 34", Moderate Mottling at 32, No Water		
<u>Test Hole #3</u>	0-14"	Silt Loam (sil)	Dark Brown sbk/2/m
	14-49"	Gravelly Clay Loam (gcl)	Brown pr/2/m
	Roots to 49", No Mottling, No Water		
<u>Test Hole #4</u>	0-20"	Silt Loam (sil)	Dark Brown sbk/2/m
	20-45"	Gravelly Clay Loam (gcl)	Brown pr/2/m
	45-60"	Soft Fractured Rock	
<u>Test Hole #5</u>	Roots to 45", No Mottling, No Water		
	0-34"	Cobbly Silt Loam (cbsil)	Dark Brown sbk/2/m
	34-48"	Silty Clay Loam (sicl)	Red Brown pr/2/m
<u>Test Hole #6</u>	48-60"	Silty Clay Loam (sicl)	Red Brown pr/1/m
	Roots to 48", Moderate Mottling at 55", Water at 55"		
	0-9"	Silt Loam (sil)	Brown sbk/2/m
	9-54"	Gravelly Clay Loam (gcl)	Brown pr/2/m
	Roots to 54", No Mottling, No Water		

### Maximum Seasonal Groundwater Elevation:

Soil Mottling: Moderate at 32" in the Reserve area      WAC Soil Classification: Type 5 in the primary area  
(Depth and degree of development)      (1A,1B,2A etc.)

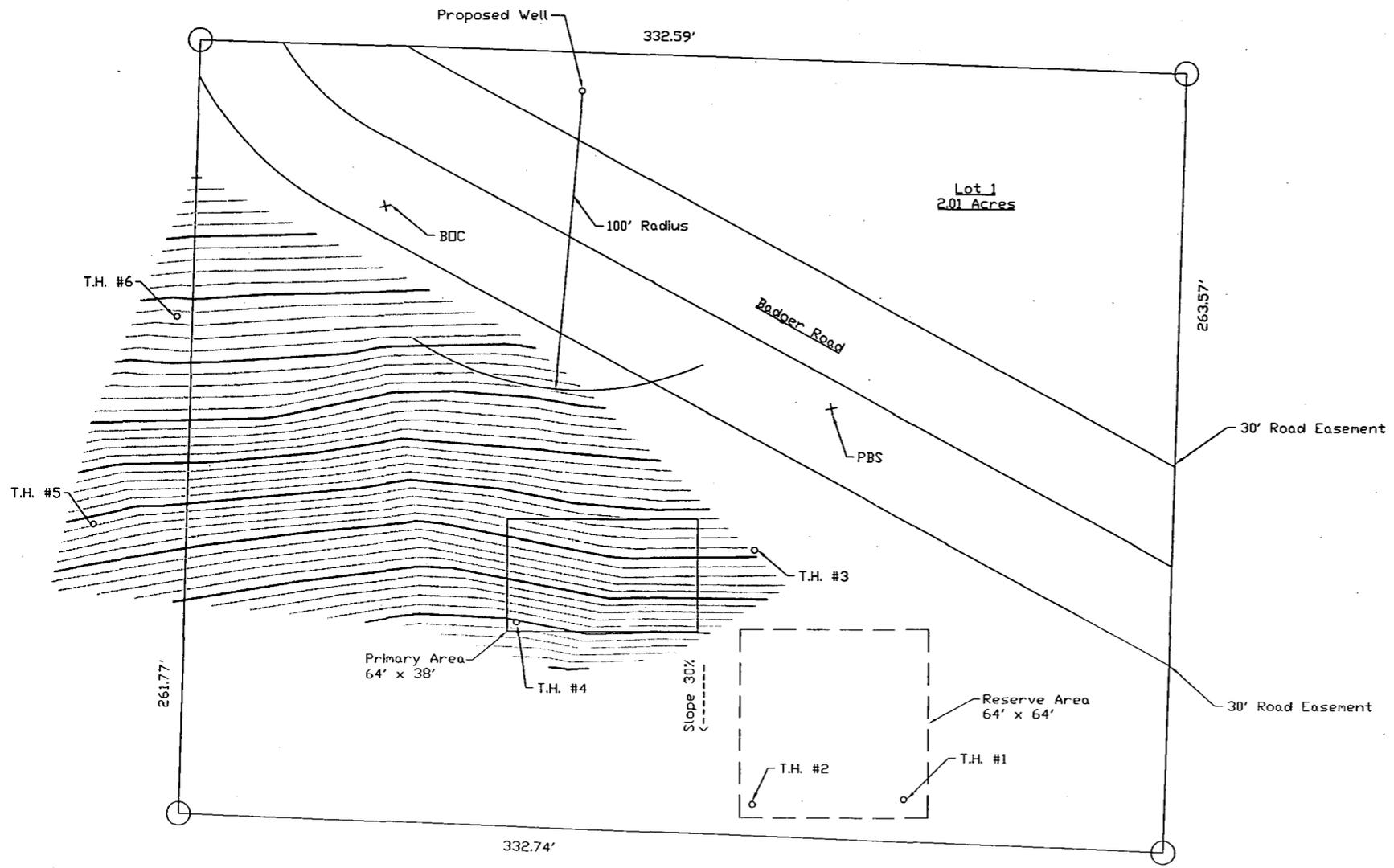
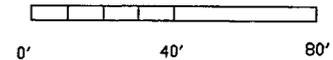
Hydraulic Loading Rate: 0.4      gallons/sq ft/day      Water Table: none  
(depth to standing water)

**Additional Comments:** Test Holes 1 and 2 were logged in a report submitted December 1, 2008. They were test holes 1 and 2 in the original report. They are no longer open.

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**081 21806**



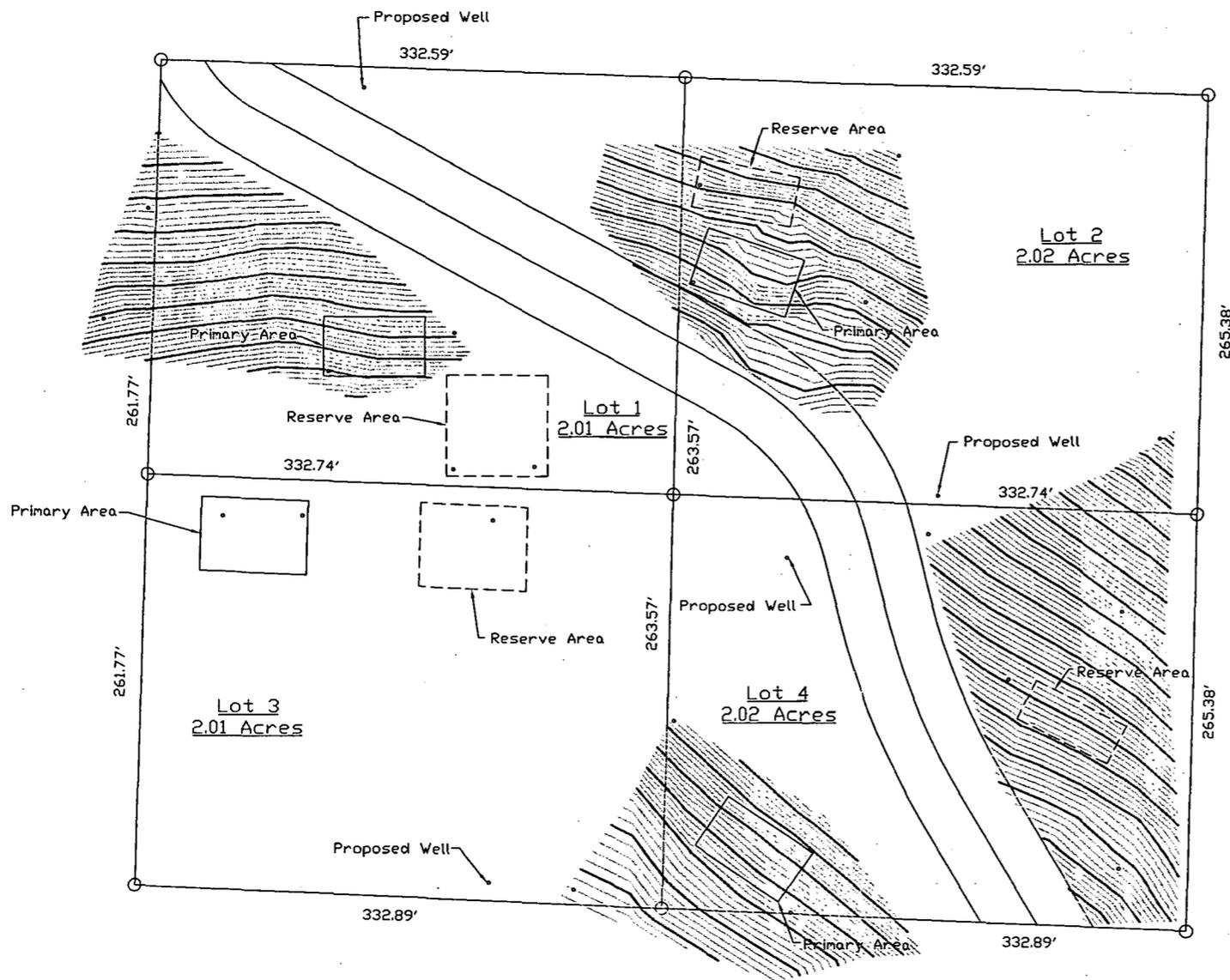
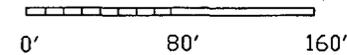
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PLOT PLAN  
 08121806



Steve Peeler (pt. of WD2211017)  
 near 198 Badger Road  
 Kelso, Washington 98626  
 Brian L. Hewitt Engineering L.L.C.  
 3025 Maple St.  
 Longview, Washington 98632  
 Cell: 360.751.3751 Fax: 360.425.2255  
 e-mail: Hewitt.Engineering@comcast.net

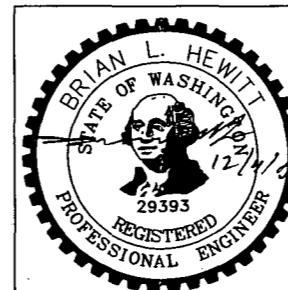
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Scale: 1"=40'-0"	Sheet M-X



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 JAN 28 2009  
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08121806

SITE PLAN



Steve Peeler (pt. of WD2211017)  
 near 198 Badger Road  
 Kelso, Washington 98626  
 Brian L. Hewitt Engineering L.L.C.  
 3025 Maple St.  
 Longview, Washington 98632  
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 e-mail: Hewitt.Engineering@comcast.net

Date: 12/01/08 Job #08-177

Scale: 1"=80'-0" Sheet M-X