

BRIAN L. HEWITT ENGINEERING L.L.C.

Site Evaluation Report July 27, 2010

Job # 06-367

Property Address: 161 Atmore Rd. Toutle, Washington 98649

Parcel Number: EF2909005

Applicant Name: Dennis Stewart, 32816 3rd Avenue SW Federal Way, Washington 98023

Number of Bedrooms for Septic Design: 3

Acres: 6.00

Site Characteristics

General Topographic Characteristics: Speelyai Gravelly Loamy Sand

Drainage Characteristics: Good, no surface water

Slopes: General: 0-8 % Proposed Drainfield Location: 8 %

Geology: Type of Bedrock & depth: None noted

Vegetation: Cleared

Distance to, and type of, nearest surface water:
(If less than 250 ft.)

Distance to nearby wells: Public

Distance to public Sewers: None

Other Structures on Property: None

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Engineer's statement regarding type of system required:

Based upon the soil analysis performed May 5, 2006 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 2,250 sq. ft. (land area) or 60 ft. by 37.5 ft.

The reserve area is approved for a Pre-treatment Level B to Pressure Distribution system and will require 900 sq. ft. (of Drainfield) minimum and 2,250 sq. ft. (land area) or 60 ft. by 37.5 ft.

Submitted by: Brian L. Hewitt P.E. # 29393
Date: July 27, 2010

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BRIAN L. HEWITT ENGINEERING L.L.C.

Soil Evaluation Report

July 26, 2010

Job # 06-367

Property Address: 161 Atmore Rd. Toutle, Washington 98649

Parcel Number: EF2909005

Section 29 Township 10N Range 1E Tax Lot # T-2A-2

Subdivision Number Lot of

Applicant Name: Dennis Stewart, 32816 3rd Avenue SW Federal Way, Washington 98023

Soil Information

As mapped by U.S. Soil Conservation Service (S.C.S.): Speelyai Gravelly Loamy Sand

Soil Profile:

	<u>Depth</u>	<u>Description</u>	<u>Comments</u>
<u>Test Hole #1</u>	0-26"	Gravelly Sandy Loam (gsL)	Multi m, gr
	26-48"	Loam (L)	Brown Multi 2, m, sbk
	Roots to 48"	No Mottling No Water	
<u>Test Hole #2</u>	0-28"	Gravelly Sandy Loam (gsL)	Multi m, gr
	13-60"	Sandy Clay Loam (sCL)	Brown Multi 2, m, sbk
	Roots to 60"	Slight Mottling at 45"	No Water
<u>Test Hole #3</u>	0-20"	Gravelly Sandy Loam (gsL)	Multi m, gr
	20-34"	Sandy Clay Loam (sCL)	Brown Multi 2, m, sbk
	34-60"	Silty Clay (siC)	Massive
	Roots to 30"	No Mottling	No Water
<u>Test Hole #4</u>	0-9"	Gravelly Sandy Loam (gsL)	Multi m, gr
	9-38"	Sandy Clay Loam (sCL)	Brown Multi 2, m, sbk
	38-60"	Silty Clay Loam (siCL)	Multi 1, m, pr
	Roots to 38"	Moderate Mottling at 38"	No Water

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Maximum Seasonal Groundwater Elevation:

Soil Mottling: Slight at 45" in the primary area
(Depth and degree of development)

WAC Soil Classification: Type 5
(1A, 1B, 2, 3, 4)

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Hydraulic Loading Rate: 0.40 gallons/sq ft/day

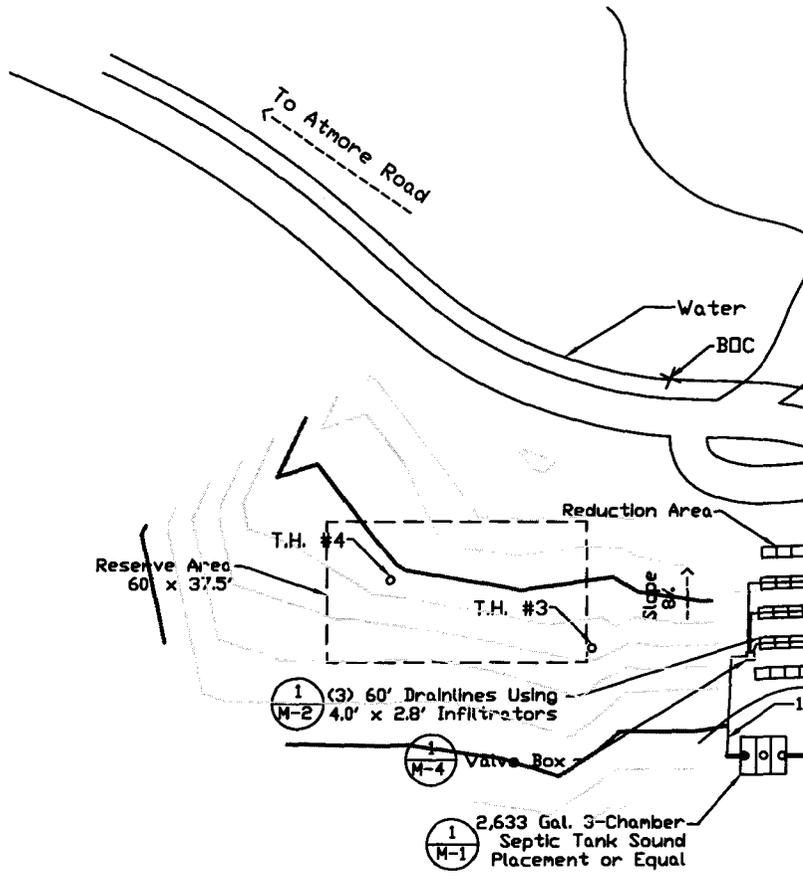
Water Table: None noted
(depth to standing water)

Additional Comments: Test holes were difficult to classify due to the contrasting layers and consistency of the materials in the layers. There were scattered spots of mottling but did not have any consistency in the upper horizons.

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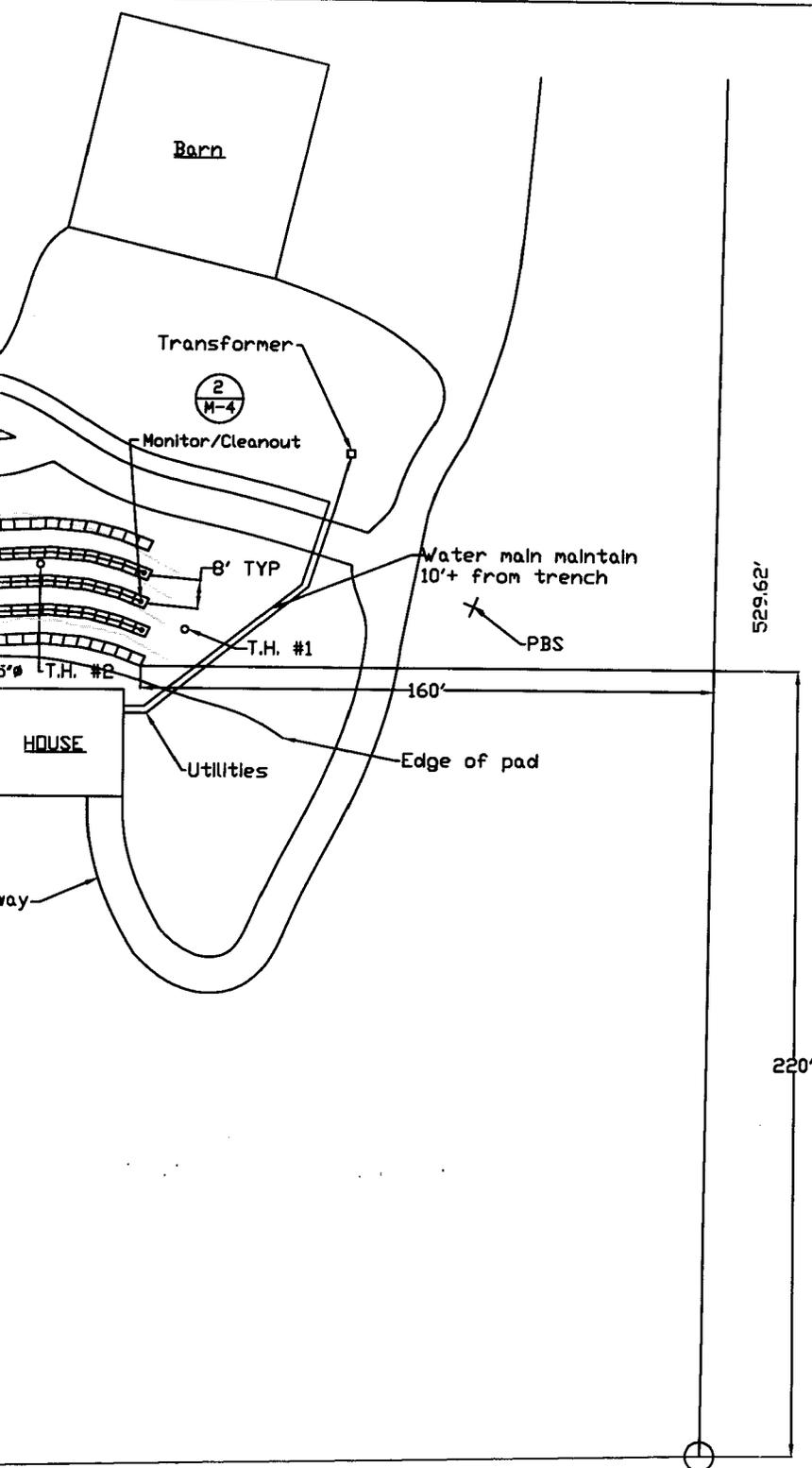


531.78'



475.40'

PLOT PLAN



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Date: 07/22/10 Job #06-367

Scale: 1"=50'-0" Sheet M-5