

## **APPENDIX J**

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Septic Reports

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Septic Report–Bell Road



**Date:** April 23, 2019

**Assessor's Parcel Number:** 026-110-018

**Owner/Applicant:** Foothill Associates

**Property Location:** Bell Road, Auburn

**Proposed Use:** Restroom Facility for Park

**Size of Property:** 40± Acres

**Water Supply:** Public Well

**Recommendations:**

Soil mantle testing and percolation testing were conducted on this property to assess the sewage disposal feasibility. The effective soil depth observed in the approved areas is only suitable for a pretreatment septic system.

The septic system design should consist of a pretreatment system\* and 11,666 square feet of Geoflow dripfield. The driplines are to be installed 6" deep on 24" centers.

\*AdvanTex, Hoot, and sand filter are some of the pretreatment system options currently available.

The projections for the number of daily visitors was provided by Placer County.

Two locations were identified for sewage disposal. The area closer to the proposed parking area and restroom facility has been identified as the primary sewage disposal area. The area at the southeast of the property will be the 100% Repair Area.

Should the 100% Repair Area ever be needed, a 36" deep x 12" wide curtain drain is recommended upslope of the proposed dripfield to divert potential subsurface sheetflow.

Any alterations (such as grading, creating cuts or fills, utility installation, etc.) within or adjacent to the dripfield and 100% repair area may void this report.

This report is not a construction permit. A permit to install this system must be obtained from the Division of Environmental Health.

At the time of a building permit application, a complete design is to be prepared, including pretreatment system design, hydraulic calculations, material specifications, dripfield design, and construction directions.

## DRIPFIELD CALCULATIONS

Sewage flows:

Automobile parking:	100	spaces
Equestrian parking:	40	spaces
Total parking:	140	spaces
Projected maximum vehicles per day: (140 parking spaces x 2)	280	
Maximum visitors per day: (280 vehicles x 2.5 assumed visitors per vehicle)	700	
Design sewage flows: 700 visitors x 5 gal/visitor (Table 2, Placer County On-Site Sewage Manual)	3500	gallons/day

### Primary Sewage Disposal Area:

Average percolation rate (p-1,2,3):	28	mpi at the 17" – 20" depth
Soil type:	Clay	
Application rate: (pg. 9, Geoflow Design Manual)	0.3	gal/sq ft/day
Minimum absorption area required: (3500 gal/day ÷ 0.3 gal/sq ft/day)	11,666	sq ft
Sewage disposal area available:	18,000	sq ft

### 100% Repair Area:

Average percolation rate (p-4,5,6):	45	mpi at the 12" – 18" depth
Soil type:	Clay	
Application rate: (pg. 9, Geoflow Design Manual)	0.3	gal/sq ft/day

Minimum absorption area required:  
(3500 gal/day ÷ 0.3 gal/sq ft/day)

11,666 sq ft

Sewage disposal area available:

13,500 sq ft



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SCALE: 1" = 300'

SM = SOIL MANTLE

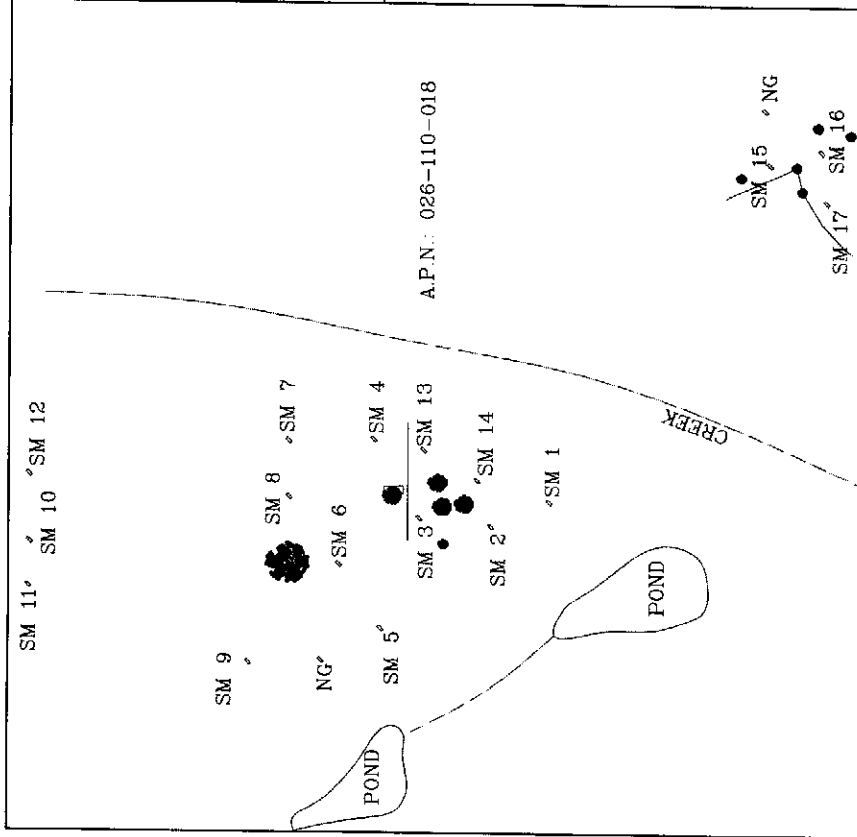
NG = UNSUITABLE SOIL MANTLE

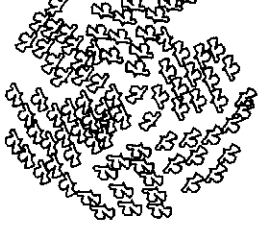
1330'

BELL ROAD

330'

A.P.N.: 026-110-012





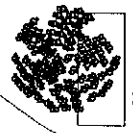
SM 8

SM 7

SM 6



SM 4



SHED

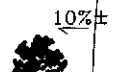
FENCE

SM 3

12%±

SM 13

15%±



10%±

P-3

P-1



SCALE: 1" = 50'

SM = SOIL MANTLE  
P- = PERC. TEST

A.P.N.: 026-110-018

PRIMARY SEWAGE DISPOSAL AREA

SM 2

P-2

SM 14

SM 1

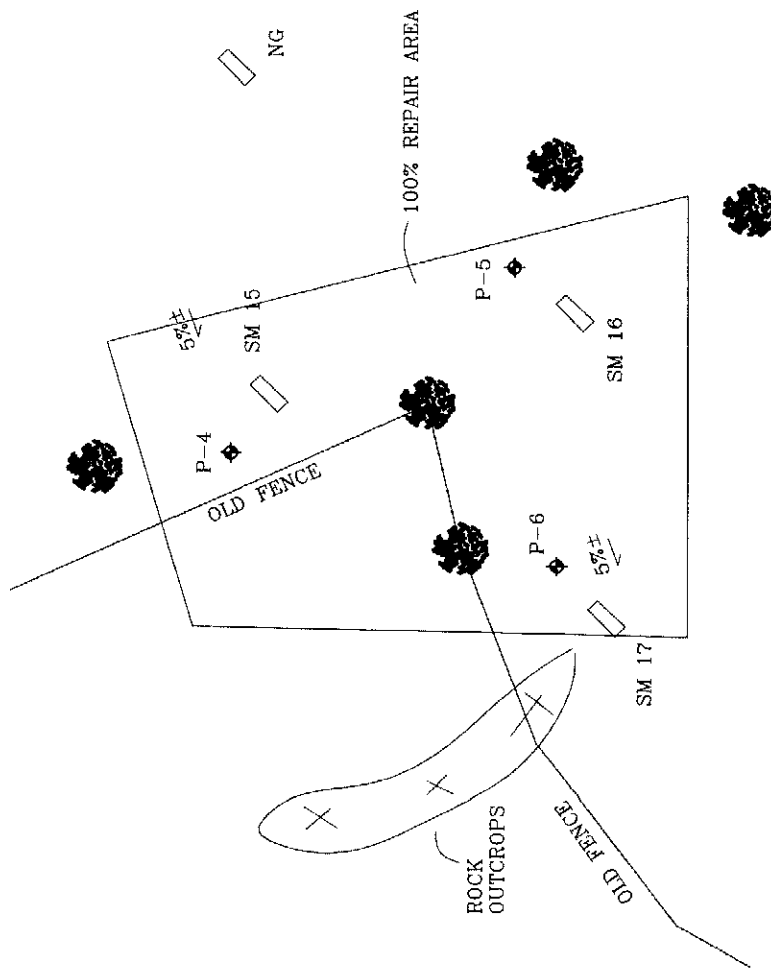
CREEK



SCALE: 1" = 50'

SM = SOIL MANTLE  
P- = PERC. TEST  
NG = UNSUITABLE SOIL MANTLE  
(DENSE CLAY AT 12")

A.P.N.: 026-110-018







SOIL MANTLE LOG

APN: 026110018

Date: 4/18/15

Consultant: M. Lindberg Page 1 of 1

Profile #: 1 Slope:
Depth: 0-15"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color: 5YR 4/3
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr (D) M S Se
Similar to Horizon Profile:

Profile #: 2 Slope:
Depth: 0-15"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 15-30"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color: 7.5YR 4/6
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 15-32"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color: 2.5YR 4/6
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr (D) M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 32-50"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color: 7.5YR 4/6
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 15"
Total Depth: Effective Depth:
Ground Water Depth:
Minimum System Feasible: None

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 32"
Ground Water Depth:
Minimum System Feasible: PRE-TREATMENT

SOIL MANTLE LOG

APN: 026,110,108

Date: 11/18/19

Consultant: M. Lindblom Page 2 of

Profile #: 4 Slope:
Depth: 0-14"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Profile #: 5 Slope:
Depth: 0-10"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Depth: 14"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 10-20"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 20-29"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 14"
Ground Water Depth:
Minimum System Feasible: No

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 20"
Ground Water Depth:
Minimum System Feasible: No

SOIL MANTLE LOG

APN: 026,110,018

Date: 4/18/19

Consultant: M. Lindblom Page 3 of

Profile #: 7 Slope:
Depth: 0-18"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Profile #: 8 Slope:
Depth: 0-10"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Depth: 18-21"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: 5W2S/2 faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 10-19"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 19-30" dense
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 18"
Ground Water Depth:
Minimum System Feasible: None

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 19"
Ground Water Depth:
Minimum System Feasible: None

SOIL MANTLE LOG

APN: 026, 110, 018

Date: 4/18/19

Consultant: N. LINDBERGH Page 4 of

Profile #: 10 Slope:
Depth: 0-11"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Profile #: 11 Slope:
Depth: 0-15"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Depth: 11-21"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth: 15-20"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth: 21-31"
Texture: s sl sc scl l c el sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 21"

Depth: 20-35"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 20"

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 21"
Ground Water Depth:
Minimum System Feasible: None

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 20"
Ground Water Depth:
Minimum System Feasible: None

SOIL MANTLE LOG

APN: 0261101018

Date: 4/18/19

Consultant: M. Lindeman Page 5 of

Profile #: 13 Slope:
Depth: 0-12"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Profile #: 14 Slope:
Depth: 0-14"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 1 Profile: 1

Depth: 12-30"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth: 14-30"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon 2 Profile: 2

Depth: 30-40"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 30-47"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 30"
Ground Water Depth:
Minimum System Feasible: PRETREAT

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w I b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 30"
Ground Water Depth:
Minimum System Feasible: PRETREAT

# SOIL MANTLE LOG

APN: 026/110/018

Date: 4/10/19

Consultant: Land Surveyors Page 6 of     

Profile #: 16 Slope:                       
Depth: 0-16"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon 1 Profile: 1

Profile #: 17 Slope:                       
Depth: 0-18"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon 1 Profile: 1

Depth: 16-38"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon 2 Profile: 2

Depth: 18-30"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon 2 Profile: 2

Depth: 38-56"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon          Profile:         

Depth: 30-60"  
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon          Profile:         

Depth:                       
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon          Profile:           
Total Depth:                      Effective Depth: 38"  
Ground Water Depth:                       
Minimum System Feasible: PRETREAT

Depth:                       
Texture: s sl sc scl l c cl sic siel sil si  
          gravelly cobbly stoney DRX IWRX MWRX DG  
Color:                       
Mottles:                      faint distinct prominent  
Structure: gr abk sbk mass other  
Consistence: L VFr Fr F VF EF S  
Plasticity: NP SP P VP  
Stickiness: NS SS S VS  
Roots: none few common many vf f m c  
Boundary: Topography: s w l b  
              Distinctness: a c g d  
Moisture: Dr D M S Se  
Similar to Horizon          Profile:           
Total Depth:                      Effective Depth: 30"  
Ground Water Depth:                       
Minimum System Feasible: PRETREAT

---

Septic Report–Curtola Ranch Road





Septic Design, Inc.  
122 East Street  
Auburn, CA 95603

**Date:** April 19, 2019

**Assessor's Parcel Number:** 026-020-013

**Owner/Applicant:** Foothill Associates

**Property Location:** Curtola Ranch Road, Auburn

**Proposed Use:** Restroom Facility for Park

**Size of Property:** 80± Acres

**Water Supply:** Public Well

**Recommendations:**

Soil mantle testing and percolation testing were conducted on this property to assess the sewage disposal feasibility. The effective soil depth observed in the approved area is only suitable for a pretreatment system.

The septic system design should consist of a pretreatment system\* and 10,833 square feet of Geoflow dripfield. The driplines are to be installed 6" deep on 24" centers.

\*AdvanTex, Hoot, and sand filter are some of the pretreatment system options currently available.


The projections for the number of daily visitors was provided by Placer County.

A 42" deep x 12" wide curtain drain is recommended upslope of the proposed dripfield to divert potential subsurface sheetflow.

Any alterations (such as grading, creating cuts or fills, utility installation, etc.) within or adjacent to the dripfield and 100% repair area may void this report.

This report is not a construction permit. A permit to install this system must be obtained from the Division of Environmental Health.

At the time of a building permit application, a complete design is to be prepared, including pretreatment system design, hydraulic calculations, material specifications, dripfield design, and construction directions.

  
Marc Lindbloom, R.E.H.S. #6884  
(530) 888-7464

## DRIPFIELD CALCULATIONS

### Calculations:

Sewage flows:

Automobile parking: 120 spaces

Equestrian parking: 10 spaces

Total parking: 130 spaces

Projected maximum vehicles per day:  
(130 parking spaces x 2) 260

Maximum visitors per day:  
(260 vehicles x 2.5 assumed visitors per vehicle) 650

Design sewage flows:  
(650 visitors x 5 gal/visitor) 3250 gallons/day

Average percolation rate: 15 mpi at the 12" – 24" depth

Soil type: Sandy Clay

Application rate:  
(pg. 9, Geoflow Design Manual) 0.3 gal/sq ft/day

Minimum absorption area required:  
(3250 gal/day ÷ 0.3 gal/sq ft/day) 10,833 sq ft

Absorption area required including 100% Repair Area:  
(10,833 sq ft x 2) 21,666 sq ft

Sewage disposal area available: 32,000 sq ft

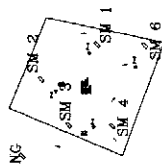


SCALE: 1" = 300'

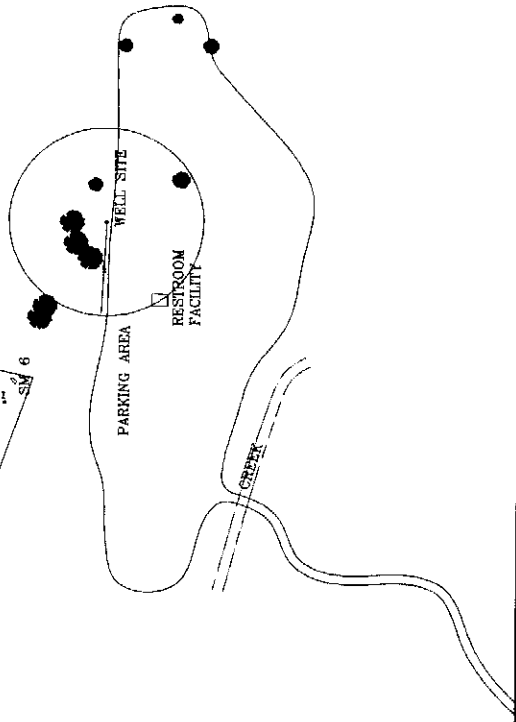
SM = SOIL MANTLE

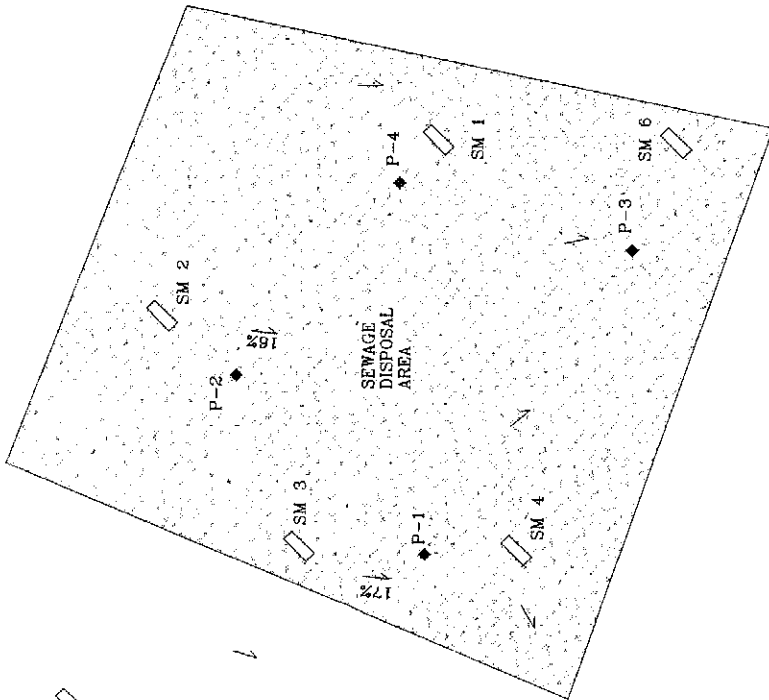
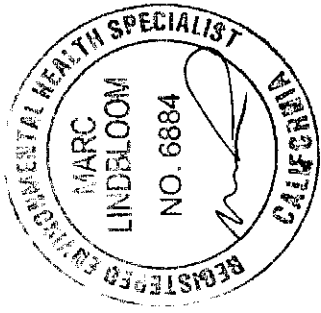
P- = PERC. TEST

A.P.N.: 026-020-013



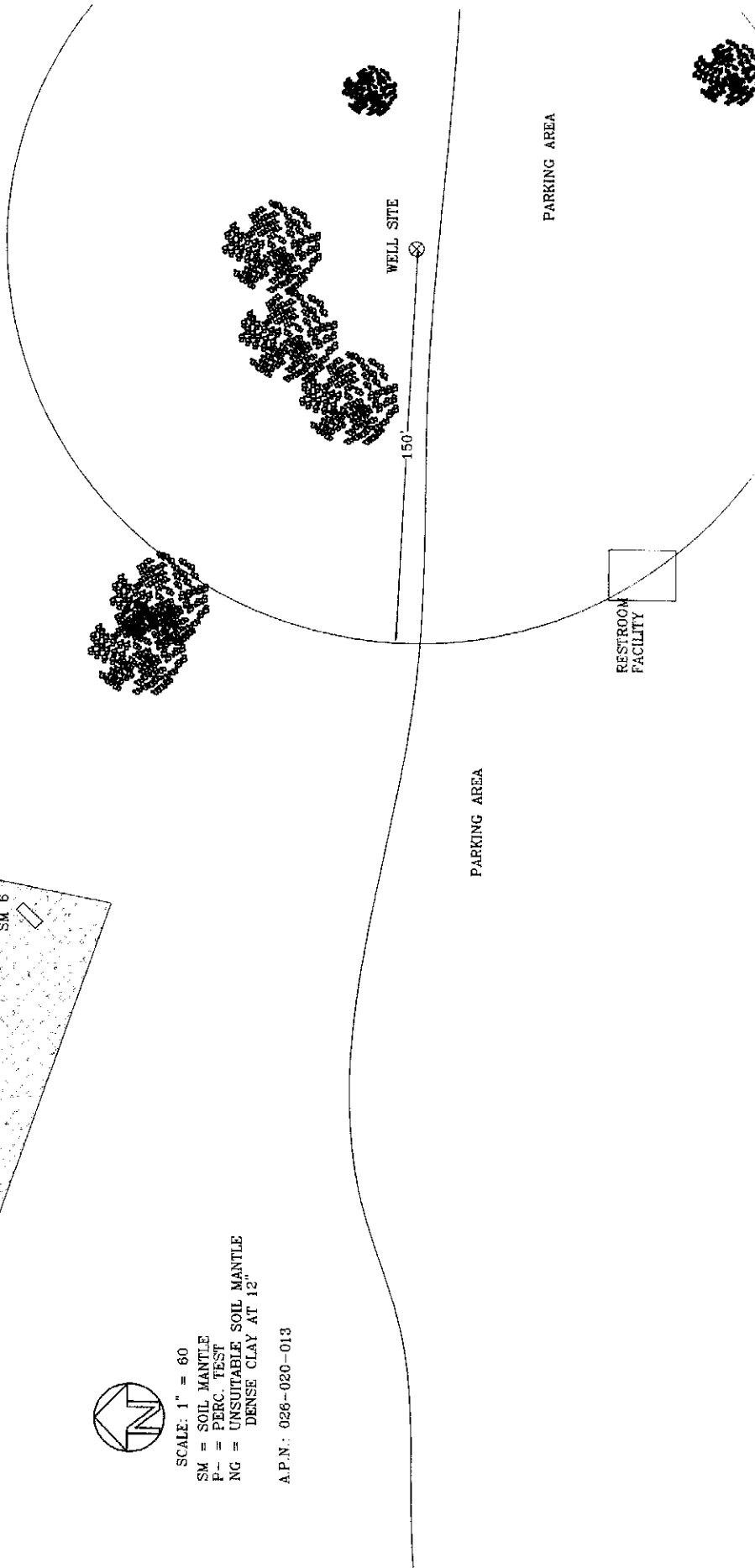
SM 5





SCALE: 1" = 60'  
SM = SOIL MANTLE  
P- = PERC. TEST  
NG = UNSUITABLE SOIL MANTLE  
DENSE CLAY AT 12"

A.P.N.: 026-020-013



NG

SM 5

PARKING AREA

PARKING AREA

RESTROOM FACILITY

WELL SITE

150'



SOIL MANTLE LOG

APN: 026/020/013

Date: 4/18/19

Consultant: M. Lind Bloom Page 1 of 2

Profile #: 1 Slope:
Depth: 0-18
Texture: s sl sc scl l c cl sic siel sil si
Color: 2.5UR3/3
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Profile #: 2 Slope:
Depth: 0-14
Texture: s sl sc scl l c cl sic siel sil si
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 1

Depth: 18-30
Texture: s sl sc scl l c cl sic siel sil si
Color: 2.5UR4/6
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 14-50
Texture: s sl sc scl l c cl sic siel sil si
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 1

Depth: 30-70
Texture: s sl sc scl l c cl sic siel sil si
Color: 2.5UR6/4
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 50-70
Texture: s sl sc scl l c cl sic siel sil si
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 1

Depth:
Texture: s sl sc scl l c cl sic siel sil si
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 30
Total Depth: Effective Depth:
Ground Water Depth:
Minimum System Feasible: PRETREAT

Depth:
Texture: s sl sc scl l c cl sic siel sil si
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile: 50
Total Depth: Effective Depth:
Ground Water Depth:
Minimum System Feasible: PRETREAT

SOIL MANTLE LOG

APN: 0261020013

Date: 4/18/19

Consultant: M. Lindberg DM Page 2 of 2

Profile #: 4 Slope:
Depth: 0-24"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Profile #: 5 Slope:
Depth: 0-20"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 24-49"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 20-27"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 49-64"
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 49"
Ground Water Depth:
Minimum System Feasible: PRETREAT

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 20"
Ground Water Depth:
Minimum System Feasible: NOW

---

Septic Report–Garden Bar Road





**Date:** April 10, 2019

**Assessor's Parcel Number:** 026-072-084

**Owner/Applicant:** Foothill Associates

**Property Location:** Garden Bar Road, Lincoln

**Proposed Use:** Restroom Facility for Park

**Size of Property:** 38± Acres

**Water Supply:** Public Well

**Recommendations:**

Soil mantle testing and percolation testing were conducted on this property to assess the sewage disposal feasibility. The effective soil depth observed in the test holes is suitable for a pretreatment system. Based on the proposed use, I would recommend an Eljen geotextile sand filter.

For the future restroom facility, the septic system should consist of a septic tank, pump tank (their sizes to be determined as part of the septic design), effluent pump, control panel, and approximately 972 lineal feet of 36" wide x 16" deep leach trench. Eljen A42 modules to be installed above 6" of specified sand in the leach trenches. Trenches to be installed level, on contours, on minimum 9' centers.

Utilizing pressure distribution should increase the longevity of the Eljen trenches and provide the best treatment.

Calculations:

Sewage flows:

Automobile parking: 50 spaces

Equestrian parking: 20 spaces

Total parking: 70 spaces

Projected maximum vehicles per day:  
(70 parking spaces x 2) 140

Maximum visitors per day: (140 vehicles x 2.5 assumed visitors per vehicle)	350	
Design sewage flows: (350 visitors x 5 gal/visitor)	1750	gallons/day
Average percolation rate:	28	mpi at the 20" – 28" depth
Application rate based on percolation rate: ( $5 \div \sqrt{28}$ )	0.94	gal/sq ft/day
Soil texture:		Silty clay loam
Application rate based on soil texture*: (sect. 1.16, Placer County Design & Installation Manual)	0.6	gal/sq ft/day
Absorption area required: (1750 gallons/day $\div$ 0.6 gal/sq ft/day)	2917	square feet
Lineal feet of leachtrench required: (2917 sq ft $\div$ 3 sq ft/lin ft)	972	lin ft

\*Per Placer County policy, the slower application rate has been used in these calculations.

Any alterations (such as grading, creating cuts or fills, utility installation, etc.) within or adjacent to the leachfield and 100% repair area may void this report.

This report is not a construction permit. A permit to install this system must be obtained from the Division of Environmental Health.

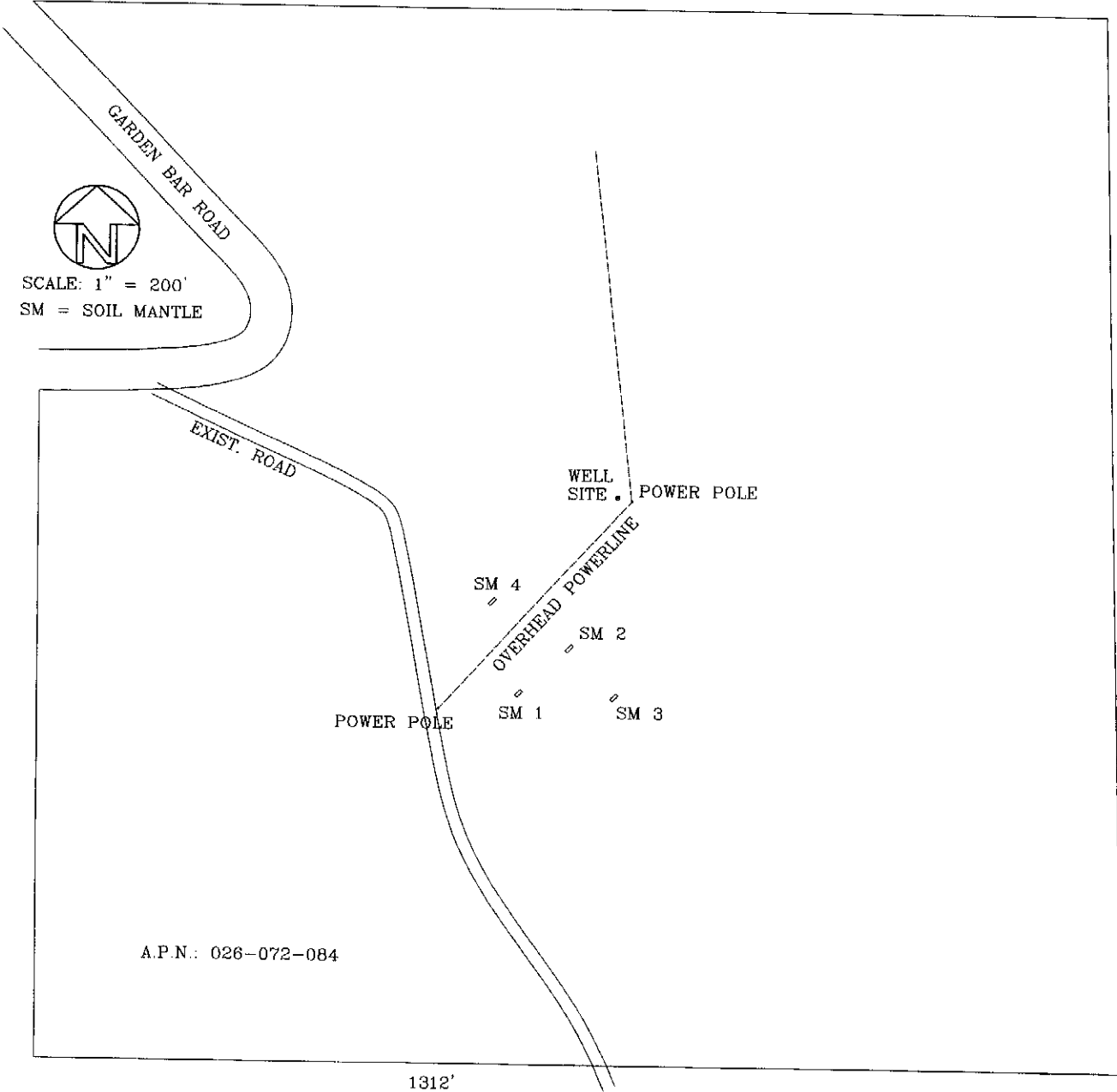
At the time of a building permit application, a complete design including pretreatment unit design, leachfield design, hydraulic calculations, leachfield installation instructions, and material specifications will be required.



Marc Lindbloom, R.E.H.S. #6884  
(530) 888-7464



SCALE: 1" = 200'  
SM = SOIL MANTLE



A.P.N.: 026-072-084

1312'

1310'



PROPOSED  
ROADWAY

EXIST. ROAD

RESTROOM  
FACILITY

WELL  
SITE

POWER POLE

150'

OVERHEAD POWERLINE



SCALE: 1" = 50'

SM = SOIL MANTLE  
P- = PERC. TEST

A.P.N.: 026-072-084

10%± SM 4

SEWAGE DISPOSAL  
AREA

15%± SM 2

P-2

SEWAGE DISPOSAL  
AREA

P-1

SM 1

P-3

SM 3

10%±

POWER POLE

ROCKY



SOIL MANTLE LOG

APN: 026,072,084

Date: 4, 8, 19

Consultant: M. Lindbom Page 1 of 2

Profile #: 1 Slope:
Depth: 8-13
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color: 2.5 YR 3/4
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Profile #: 2 Slope:
Depth: 8-10
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 13-40
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color: 2.5 YR 5/6
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 10-28
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 40-44
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color: 2.5 YR 5/4
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 28-48
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color: 2.5 YR 5/4
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 44-50
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 40
Ground Water Depth:
Minimum System Feasible: PRETREATMENT

Depth: 48-72
Texture: s sl sc scl l c cl sic sil si
gravelly cobble stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 48
Ground Water Depth:
Minimum System Feasible: PRETREATMENT

SOIL MANTLE LOG

APN: 026, 672, 084

Date: 4, 8, 19

Consultant: M. Lindblom Page 2 of 2

Profile #: 4 Slope:
Depth: 0-16
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Profile #: Slope:
Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 16-36
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth: 36-44
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth: 36
Ground Water Depth:
Minimum System Feasible: PRO-RBOR

Depth:
Texture: s sl sc scl l c cl sic siel sil si
gravelly cobbly stoney DRX IWRX MWRX DG
Color:
Mottles: faint distinct prominent
Structure: gr abk sbk mass other
Consistence: L VFr Fr F VF EF S
Plasticity: NP SP P VP
Stickiness: NS SS S VS
Roots: none few common many vf f m c
Boundary: Topography: s w l b
Distinctness: a c g d
Moisture: Dr D M S Se
Similar to Horizon Profile:
Total Depth: Effective Depth:
Ground Water Depth:
Minimum System Feasible: