

GEOTECHNICAL ENGINEERING REPORT

FOR

WOODRIDGE VIEW ESTATES

**Shawnee Avenue and Wieber Drive
Spokane, Washington**

STI W.O. # C-70-S010001

PRESENTED TO:

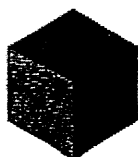
**North Division Complex
8225 North Division
Spokane, Washington 99208**

PREPARED BY:

**STI Northwest
3628 East Ferry
Spokane, Washington 99202**

(509) 534-9711

March 26, 2001



SOILS, TESTING & INSPECTION

March 26, 2001
STI W.O. C-70-S010001

Mr. Buster Heitman
North Division Complex
8225 North Division
Spokane, WA 99208

**Re: Geotechnical Evaluation
Woodridge View Estates Subdivision
Shawnee Avenue and Wieber Drive
Spokane, Washington**

Dear Mr. Heitman,

We have completed our initial evaluation of soil and groundwater conditions for the Woodridge View Estates subdivision at the above-referenced site in Spokane, Washington. The purpose of this report is to address geotechnical issues identified in the Pre-Development Conference Notes dated November 9, 2000.

AVAILABLE INFORMATION

The data we used to evaluate the site soil and groundwater conditions for the purposes of this report were obtained from previous test pit data we obtained in January, 2000, and our visual observations during utility and stormwater drainage structure installations for the Woodridge 8th Subdivision. The field investigation for this geotechnical report consisted of seventeen test pits. Attached are logs of these test pits along with our previous test pit data. Our recent test pits were excavated at the locations shown on the attached sketch.

RESULTS

In general, the soils encountered consisted of silt to silty sand topsoil overlying water-deposited sands and silts (alluvium and colluvium). These soils are flood deposits. Bedrock was encountered in test pits TP-11, TP-13, TP-15 and TP-16 at depths ranging from 3 to 13 feet. The alluvium consists primarily of permeable sands. Silt was encountered in test pits TP-12 and TP-14 at depths of 4 and 6 feet, respectively. We believe this silt layer to be part of the Latah Formation.

Groundwater was not observed in the test pits during excavation or backfilling. Groundwater is believed to be at some depth below the termination depths of the test pits.

ANALYSIS AND RECOMMENDATIONS

Stormwater Disposal

According to the Spokane County Soils Survey, the soils at this site consist primarily of Marble (Mbc) soils. These soils were the predominant soil type encountered in the test pits. The maps also indicate that Bernhill very rocky complex (BkC) and Bernhill silt loam (BbB) soils are present. We did not encounter these soils in any of our test pits. However, we believe these soils are likely present in the Tract "D" Common Area east of the PUD boundary. This area has relatively shallow bedrock and currently is not proposed for disposal of stormwater or construction of houses.

The Marble soils are classified as Type A soils and are pre-approved for stormwater disposal. These soils are deepest at the north and south ends of the plat (i.e., we did not encounter bedrock within the depths explored). We recommend that these areas be evaluated for disposal of stormwater.

It is likely that water entering the permeable sand soils moves down slope along the soil/bedrock interface. For infiltration, down-gradient effects should be evaluated. We recommend that infiltration rates be obtained using either test pit or full-scale drywell permeability tests. We recommend performing these types of permeability tests so that sufficient volumes of water are introduced into the subsurface for monitoring and evaluating down-gradient effects. These tests may not be feasible until water service has been installed so that an adequate water supply is available.

We recommend that piezometers be installed down-gradient to assist in evaluated subsurface water flow. We recommend installing the piezometers to the soil/bedrock interface or to a maximum depth of 40 feet, whichever is shallower. Water levels should be monitored during and immediately after performing the permeability testing.

Geologic Hazards

The Pre-Development Conference Notes indicated a concern regarding erodible soils and steepness of slopes. The Spokane County Critical Areas Map shows the presence of erodible soils, inclined slopes, and landslide deposits. We did not encounter any soils that would classify as a landslide deposit and we do not believe that this type of deposit exists within the plat. We did, however, encounter deposits that we classified as loam formation. These deposits were encountered at depth and could potentially affect infiltration and/or foundations for houses.

The steepness of the slopes increases the potential for erosion. For grading, it is our opinion that the methods used for Woodridge 8th would be suitable for the proposed new plat. Cutoff and erosion trenches with grass swales should provide for adequate erosion control. A cutoff trench currently exists just upslope from and along Millbury Court and was constructed with the intent of using it as an erosion control measure for Woodridge View Estates.

The sands present at the site are relatively stable, even on the rather steep slopes of 25 to 30 percent. Foundations for houses will likely bear on these soils or on bedrock. These soils should provide adequate support for the anticipated foundation loads. Proposed grades should be

~~evaluated for stability (e.g., retaining walls for terracing, etc.).~~

GENERAL RECOMMENDATIONS

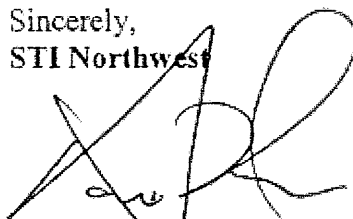
This report is for the exclusive use of the addressee and the copied parties to use to design the proposed project and prepare construction documents. In the absence of our written approval, we make no representation and assume no responsibility to other parties regarding this report. The data, analyses and recommendations may not be appropriate for other structures or purposes. We recommend that parties contemplating other structures or purposes contact us.

Services performed by the geotechnical engineers for this project have been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in this area under similar budget and time restraints. No warranty, expressed or implied, is made.

REMARKS

We appreciate the opportunity to provide our services to you. If you have any questions or need additional information, please do not hesitate to call Paul Nelson or Bruce Howard at 534-9711.

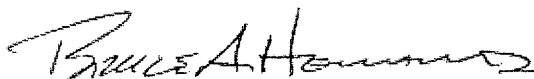
Sincerely,
STI Northwest



Paul T. Nelson, P.E.
Geotechnical Engineer



EXPIRES: 11-24-01

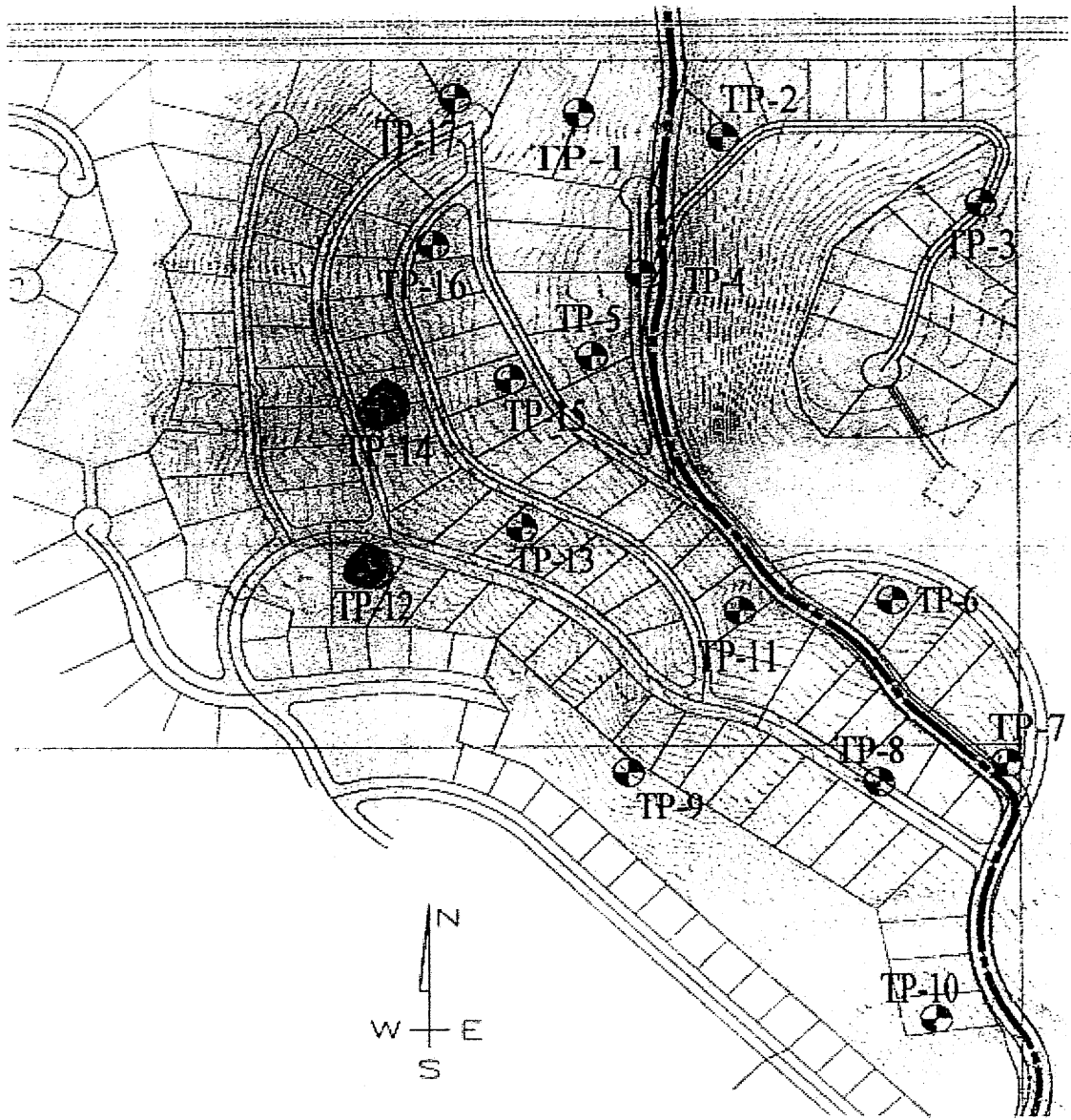


Bruce A. Howard
Vice President

cc: Andrew Worlock
CLC Associates, Inc.

Nelson Ogren
CLC Associates, Inc.

Attachments: Logs of Test Pits TP-1 through TP-17
Sieve Analysis Test Results



TEST PIT LOCATION MAP

STI NORTHWEST	Woodridge View Estates	March 26, 2001
DESIGN PTN	Shawnee Ave. and Wieber Dr.	JOB NO. S010001
REVIEWED BY: PTN	Spokane, Washington	FIGURE 1



STI NORTHWEST

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-1 LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2254.9	0.0				
2253.9	1.0	ML	SILT, dark brown, moist. (Topsoil)		
			POORLY GRADED SAND, fine grained, brown, moist. (Alluvium)		
		SP			
2239.9	15.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.GPJ STI GDT 2/27/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-2		
				LOCATION: See Attached Sketch		
				DATE: 2/6/01	SCALE: 1" = 4'	
Elev.	Depth	ASTM D2487 Symbol	Description of Materials		WL	Tests or Notes
2335.6	0.0					
		SP	POORLY GRADED SAND , fine grained, brown, moist. (Alluvium)			
2329.6	6.0					
		SW	WELL GRADED SAND with GRAVEL , fine to medium grained, brown, moist. (Alluvium)			
2322.1	13.5					
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.			

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.GPJ STI.DWT MTD/01

LOG OF TEST PIT



STV NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-3	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2396.5	0.0				
2395.0	1.5	SM	SILTY SAND , fine to medium grained, dark brown to brown, moist. (Topsoil)		
			POORLY GRADED SAND WITH SILT , fine to medium grained, brown, moist. (Alluvium)		
		SP SM			
2383.0	13.5				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S000001 001 STV 0001 02/06/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001				TEST PIT: TP-4	
Geotechnical Evaluation				LOCATION: See Attached Sketch	
Woodridge View Estates Subdivision					
Shawnee Avenue and Wieber Drive					
Spokane, Washington				DATE: 2/6/01	
				SCALE: 1" = 4'	
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2293.6	0.0				
2292.6	1.0	ML	SANDY SILT, dark brown to brown, moist. (Topsoil)		
			POORLY GRADED SAND, fine grained, brown, moist. (Alluvium)		
		SP			
2277.6	16.0				
			END OF TEST PIT		
			Water not observed to bottom of test pit.		
			Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001 CPT STI.DAT 1/23/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-5	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'

Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2279.1	0.0				
2278.1	1.0	ML	SANDY SILT, dark brown to brown, moist. (Topsoil)		
			POORLY GRADED SAND, fine grained, brown, moist. (Alluvium)		
		SP			
2262.6	16.5				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.GPJ STI.DWT 2/27/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-6	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2305.9	0.0				
2304.9	1.0	ML	SANDY SILT, dark brown to brown, moist (Topsoil)		
			POORLY GRADED SAND WITH SILT, fine grained, brown, moist (Alluvium)		
		SP SM			
2297.9	8.0				
		SP	POORLY GRADED SAND, fine to medium grained, brown, moist (Alluvium)		
2293.4	12.5				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.DPI STI GET 3/23/01

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001

Geotechnical Evaluation

Woodridge View Estates Subdivision

Shawnee Avenue and Wieber Drive

Spokane, Washington

TEST PIT:

TP-7

LOCATION:

See Attached Sketch

DATE: 2/6/01

SCALE: 1" = 4'

(See Report and Standard Plates for evaluation and descriptive terminology.)

Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2282.1	0.0				
2281.1	1.0	ML	SANDY SILT, dark brown to brown, moist. (Topsoil)		
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2277.1	5.0				
		SP	POORLY GRADED SAND, fine to medium grained, brown, moist. (Alluvium)		
2270.1	12.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

TEST PIT LOG: 8800001.GPJ STI.DWG 12/21/01

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-8	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2246.8	0.0				
2245.8	1.0	SM	SILTY SAND, fine to medium grained, dark brown to brown, moist. (Topsoil)		
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2240.8	6.0				
		SP	POORLY GRADED SAND, fine to medium grained, brown, moist. (Alluvium)		
2234.8	12.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001 QPZ STI 0257 2/20/01

TEST PIT LOG S010001 QPZ STI 0257 2/20/01

LOG OF TEST PIT



STW NORTHWEST

PROJECT: **C-70-S010001**
Geotechnical Evaluation
Woodridge View Estates Subdivision
Shawnee Avenue and Wieber Drive
Spokane, Washington

TEST PIT: **TP-9**

LOCATION:
See Attached Sketch

DATE: **2/6/01**

SCALE: **1" = 4'**

(See Report and Standard Plates for evaluation and descriptive terminology.)

Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2176.1	0.0				
2175.1	1.0	SM	SILTY SAND, fine to medium grained, dark brown to brown, moist. (Topsoil)		
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2170.1	6.0				
		SP	POORLY GRADED SAND, fine to medium grained, brown, moist. (Alluvium)		
2164.1	12.0		Granitic Bedrock at 12'		
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

TEST PIT LOG S010001.DWG STW.DWG 2/2/01

LOG OF TEST PIT



STN NORTHWE

PROJECT: C-70-S010001
Geotechnical Evaluation
Woodridge View Estates Subdivision
Shawnee Avenue and Wieber Drive
Spokane, Washington

TEST PIT: TP-10

LOCATION:
See Attached Sketch

DATE: 2/6/01

SCALE: 1" = 4'

(See Report and Standard Plates for evaluation and descriptive terminology.)

Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2182.5	0.0				
2181.5	1.0	SM	SILTY SAND, fine to medium grained, dark brown to brown, moist. (Topsoil)		
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2178.5	4.0				
		SW SM	WELL GRADED SAND with SILT and GRAVEL, medium to coarse grained, reddish to brown, moist. (Colluvium)		
2171.5	11.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-11	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2281.4	0.0				
2280.4	1.0	SM	SILTY SAND, fine to medium grained, dark brown to brown, moist. (Topsoil)		
2278.4	3.0	SP SM	POORLY GRADED SAND with SILT and GRAVEL, fine to medium grained, brown, moist. (Alluvium)		
2277.4	4.0		Weathered Granite bedrock.		
			END OF TEST PIT		
			Water not observed to bottom of test pit.		
			Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001 (CPI SILENT) 3/27/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-12	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2150.9	0.0				
		SP	POORLY GRADED SAND , fine grained, brown, moist. (Alluvium)		
2146.9	4.0				
		ML	SILT , grayish white, moist. (Alluvium)		
2137.9	13.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)
 TEST PIT LOG S010001.GPJ STI.DAT 3/27/01

LOG OF TEST PIT



STI NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-13	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'

Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2215.5	0.0				
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2212.5	3.0				
		SP	POORLY GRADED SAND WITH GRAVEL, medium to coarse grained, brown, moist, (Alluvium)		
2210.5	5.0				
		SP	POORLY GRADED SAND, fine to medium grained, brown, moist. (Alluvium)		
			Bedrock at 13'.		
2202.5	13.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.DWG STI 11/01/01 3/27/01

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-14	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2192.6	0.0				
		SP SM	POORLY GRADED SAND WITH SILT , fine grained, brown, moist. (Alluvium)		
2189.6	3.0				
		SP	POORLY GRADED SAND WITH GRAVEL , medium to coarse grained, brown, moist. (Alluvium)		
2186.6	6.0				
		ML	SILT , white, moist. (Alluvium)		
2182.6	10.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.DWG STI.DWG 2/27/01

LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-15	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2279.1	0.0				
		SP	POORLY GRADED SAND WITH GRAVEL, medium to coarse grained, brown, moist. (Alluvium)		
			Basalt Bedrock at 5'		
2274.1	5.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001 001 STI 02/01 10/22/01

LOG OF TEST PIT



STH NORTHWE

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-16	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2237.9	0.0				
		SP SM	POORLY GRADED SAND WITH SILT, fine grained, brown, moist. (Alluvium)		
2233.9	4.0				
2232.4	5.5	SP	POORLY GRADED SAND WITH GRAVEL, medium to coarse, brown, moist. (Alluvium)		
			Weathered Basalt Bedrock.		
2224.9	13.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.GPJ STH\OCT 3/27/01

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LOG OF TEST PIT



STI NORTHWEST

PROJECT: C-70-S010001 Geotechnical Evaluation Woodridge View Estates Subdivision Shawnee Avenue and Wieber Drive Spokane, Washington				TEST PIT: TP-17	
				LOCATION: See Attached Sketch	
				DATE: 2/6/01	SCALE: 1" = 4'
Elev.	Depth	ASTM D2487 Symbol	Description of Materials	WL	Tests or Notes
2202.2	0.0				
		SP SM	POORLY GRADED SAND WITH SILT , fine grained, brown, moist. (Alluvium)		
2196.2	6.0				
		SP	POORLY GRADED SAND , fine to medium grained, brown, moist. (Alluvium)		
2189.2	13.0				
			END OF TEST PIT Water not observed to bottom of test pit. Test pit immediately backfilled.		

(See Report and Standard Plates for evaluation and descriptive terminology.)

TEST PIT LOG S010001.DWG STI.DWG 2/2/01

Woodridge 8th Add.
Test Pit Logs
January 18, 2000
Excavator: C&B Excavation
Technician: David Lehn

Test Pit 7
Millbury Ct. STA 21+00 LT
Depth in feet

0.0 to 10	Medium dense, brown, silty fine SAND, moist
10 to 12	Dense, brown, gravelly SAND to sandy GRAVEL, moist
12 to >14	Medium dense, reddish brown, clayey SILT, moist

Samples from 9 and 13 ft.
No ground water encountered

Test pit 6
Millbury Ct. STA 19+00 LT

0.0 to 1.5	Medium dense, brown, gravelly silty SAND, moist (fill)
1.5 to 4	Medium dense, brown, silty fine SAND, moist
4 to 7	Dense, brown, gravelly SAND to sandy GRAVEL, moist
>7	Hard, gray, basalt bedrock

No ground water encountered

Test Pit 5
Millbury Ct. STA 15+50 LT

0.0 to 1.5	Medium dense, brown, gravelly silty SAND, moist (fill)
1.5 to >12	Medium dense, brown, sl. Silty fine SAND, sl. moist

Sample from 10 ft.
No ground water encountered

Test Pit 4
Millbury Ct. STA 13+50 LT

There was an existing manhole adjacent to the roadway, down slope of the test pit location. The manhole cover was 12 ft. below the road grade. The fill and soil around the MH consisted of sl. Silty fine SAND. According to the excavator's personnel who used to work for Bob Loshbaugh, the MH was placed in SAND similar to TP 5 above.

Test Pit 3

Fleetwood STA 5+50 LT

0.0 to 1.5 Loose, brown, silty SAND, moist

1.5 to 9 v. dense, brown, gravelly SILT, moist

>9 Hard, gray, basalt bedrock

No ground water encountered

Test Pit 2

Fleetwood STA 3+50 RT

0.0 to 5 Medium dense, brown, gravelly silty SAND, moist

5 to >10 Medium dense, grayish white, clayey SILT, moist (Latah Fm ?)

Sample from 8 ft.

No ground water encountered

Test Pit 1

Fleetwood STA 3+50 LT

0.0 to 4 Medium dense, brown, gravelly silty SAND, moist

4 to >10 Medium dense, grayish white, clayey SILT, moist (Latah Fm ?)

No ground water encountered

Woodridge 8th Add.
Test Pit Logs
January 25, 2000
Excavator: C&B Excavation
Technician: David Lehn

Test Pit 3 (EXTENDED)

Fleetwood STA 5+50 LT

Depth in feet

0.0 to 1.5 Loose, brown, silty SAND, moist
1.5 to 9 v. dense, brown, gravelly SILT, moist
9 to >13 med. Dense, grayish brown, SAND, dry, layered with gravelly silt lenses.
Sample at 12 ft.
No ground water encountered

Test Pit 8

Fleetwood STA 6+50 RT

0.0 to 4 Medium dense, brown, silty fine SAND, moist
4 to >16 Medium dense, grayish white, clayey SILT, moist (Latah Fm ?)
No ground water encountered

Test pit 9

Fleetwood STA 8+10 LT

0.0 to 2 Medium dense, brown, silty SAND, moist
2 to 12 Dense, brown, gravelly SAND to sandy GRAVEL, moist
12 to >16 med. Dense, brown, SAND, dry, layered with gravelly silt lenses.
Sample at 14 ft.
No ground water encountered

Test Pit 10

Fleetwood STA 9+50 RT

0.0 to 4 Medium dense, brown, gravelly silty SAND, moist
>4 Hard, gray, basalt
No ground water encountered

Test Pit 11

Fleetwood STA 10+30 RT

0.0 to >12 Medium dense, brown, sl. gravelly silty med. SAND, moist
Sample at 11 ft.
No ground water encountered

Test Pit 12

Fleetwood STA 3+50 (100 ft.)LT

0.0 to 5 Medium dense, brown, gravelly silty SAND, moist

5 to 12 Medium dense, tan, silty fine SAND, moist

12 to >18 Medium dense, grayish white, clayey SILT, moist (Latah Fm ?)

No ground water encountered

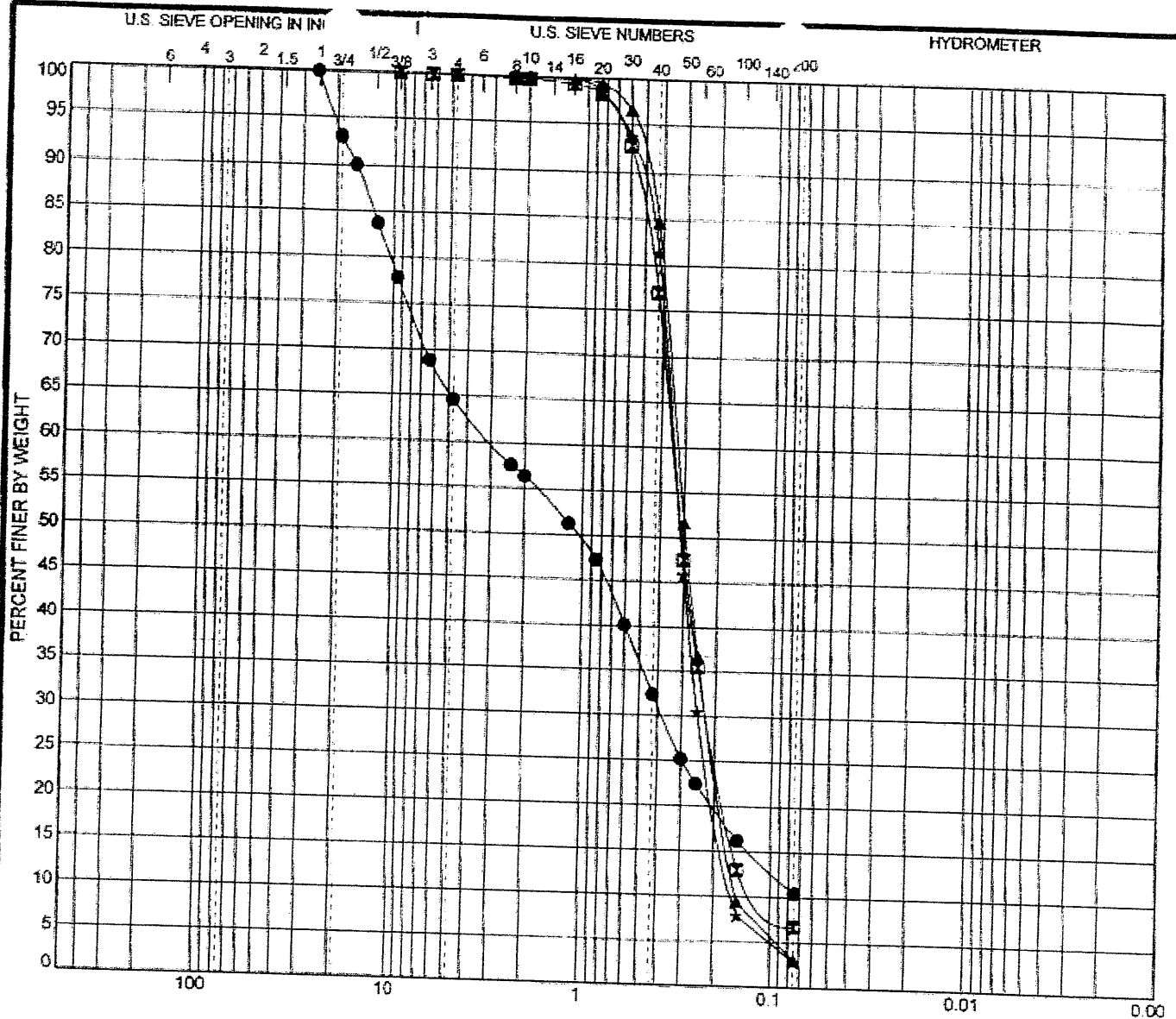
Test Pit 13

Fleetwood STA 7+50 RT

0.0 to 6 Medium dense, brown, silty SAND, moist

6 to >10 Medium dense, grayish white, clayey SILT, moist (Latah Fm ?)

No ground water encountered



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Description of Material				LL	PL	PI	Cc	Cu
	TP-10	8.0	SP-SM, Poorly graded Sand with Silt						0.68	42.1
☒	TP-6	8.0	SP-SM, Poorly Graded Sand with Silt						1.30	3.2
▲	TP-7	8.0	SP, Poorly Graded Sand						0.98	2.1
★	TP-8	10.0	SP, Poorly Graded Sand						1.12	2.2
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	TP-10	8.0	25.4	2.991	0.378	35.3	54.2	10.5		
☒	TP-6	8.0	9.5	0.348	0.221	0.1	93.1	6.7		
▲	TP-7	8.0	4.75	0.328	0.22	0.152	96.9	3.1		
★	TP-8	10.0	2.36	0.345	0.247	0.157	97.1	2.9		



STN NORTHWEST

GRAIN SIZE DISTRIBUTION

Project: Woodridge View Estates Subdivision

Location: Shawnee Avenue and Wieber Drive

Number: C-70-S010001

STN S010001.DPT STN CDT 12/20/01