

GEODESIGN INCORPORATED		BORING LOG		Boring No.: B-1								
Geotechnical Construction Environmental Engineers and Scientists P.O. Box 699 Windsor, VT 05089 Phone: 802-674-2033/Fax: 802-674-5943		Project Name Jericho Pedestrian Bridge (VAOT JERICOPB-400) Jericho, VT		Page No.: 1 of 2 File No.: 750-04.6 Checked By: SPK								
Boring Company: M & W Soils Engineering Foreman: Craig Fairbank GeoDesign Rep.: Jason Gaudette Date Started: September 6, 2006 Date Finished: September 6, 2006 N. Coordinate: E. Coordinate: Ground Surface Elevation (feet): 538 Station: Offset: ft		Casing: Sampler: Groundwater Observations Type: H.S.A. SS I.D.: 4.25 in. 1.38 in. Date: Depth (ft) Elev. (ft) Notes Hammer Wt.: NA 140 lbs 9/6/06, 9:55 11.0 525.0 Wet Sample Hammer Fall: NA 30 in. 9/6/06, 10:20 12.8 523.2 In Augers Rig Type: Acker Soil Max 9/7/06, 7:30 10.5 525.5 In Open Hole Hammer Type: Safety										
Depth (ft)	Sample Information								Strata Description	Symbol	Sample Description	
	Casing Blow/ft	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval						Coring Time (min. ft)
	Number				0-6	6-12	12-18	18-24		Depth & Elevation (feet)	Classification System: <i>Burmister</i>	
5	S1	SS	24	10	0.5	4	7	12	13	6.8	538.5 Bituminous Concrete	S1) Medium dense, light to dark brown fine to coarse SAND, trace to little Silt, little fine Gravel, damp. With trace pieces of asphalt.
	S3	SS	24	0	2.5	8	6	4	7	10	534.0 Gravelly Sand (FILL)	S3) Medium dense. Top 30 cm (12 in): Light brown fine to medium SAND, little Silt, trace fine Gravel, damp. Bottom 10 cm (4 in): Similar to top except with some Silt, trace wood pieces.
	S4	SS	24	12	5	4	4	4	3	11	531.5 Silty Sand (FILL)	S4) Loose, light brown fine to medium SAND, little Silt, trace fine Gravel, damp.
	S5	SS	24	14	7	2	2	3	2	6.7		S5) Loose, similar to S4 except with 2.5 cm (1 in) layer of brown SILT, some fine Sand, damp.
10	S6	SS	24	14	10	2	1	2	1	Note 6	525.5 Clayey Silt & Organics (FILL)	S6) Very loose. Top 20 cm (8 in): Similar to S4 except with darker brown seams and trace root fibers, moist to wet. Bottom 15 cm (6 in): Light grayish brown to dark brown Clayey SILT, trace fine Sand, trace fine Gravel, with root fibers and wood, moist. Weak organic odor.
15	S7	SS	24	18	12	WOH	2	1	1	Note 7	521.5 Silty Sand & Gravel	S7) Very loose, similar to bottom 15 cm (6 in) of S6 except darker brown with little to some fine Sand and more wood (estimated up to 20% by volume), moist. Strong organic odor.
	S8	SS	24	8	15	WOH	WOH	15	5	91.3	520.0 Possible Weathered BEDROCK	S8) Medium dense. Top 10 cm (4 in): Similar to S7, wet. Bottom 10 cm (4 in): Dark grayish brown fine to medium SAND, little fine to coarse Gravel, little Silt, wet. With gray phyllic rock pieces.
20	C1	C	60	59	19.5	[REC= 98%; RQD= 63%]			6	5.5	517.5 BEDROCK (Metagraywacke)	S9) Very dense/refusal. Light brownish gray fine to coarse GRAVEL, some fine to medium Sand, little Silt, wet. With slightly weathered flat/angular gray phyllic rock pieces. C1) Light (weathered) to dark (fresh) greenish gray, moderately hard, fresh to slightly weathered along fracture surfaces, closely to moderately jointed, fair quality METAGRAYWACKE. Overall weak foliation. Very smooth, soft, light gray sericite seam with pearly luster at 6.71 m (22 ft) deep. No reaction to diluted HCl. C2) Similar rock type to C1 except moderately jointed with light to dark green, very fine grained, smooth, serpentine banding with glassy luster at 8.84 m (29 ft) deep. No reaction to diluted HCl.
25	C2	C	60	55	24.5	[REC= 92%; RQD= 69%]			5.5	4.5		
30									11.5			

1) Ground surface elevation estimated by GeoDesign using a hand level from existing manhole rim (see Figure 2 in Attachment 1).
 2) Borehole moved 0.61 m (2 ft) north after abandoning from loss of split-spoon tip at 0.76 m (2.5 ft) deep.
 3) HSA resistance increased between 4.88 m (16 ft) and 5.64 m (18.5 ft) deep through denser soils/cobbles/possible weathered rock. Very hard resistance at 5.64 m (18.5 ft) deep.
 4) HSA advanced to refusal at 5.95 m (19.5 ft) deep. Installed 10 cm (4 in) I.D. steel casing and flushed with 9.5 cm (3.75 in) roller bit prior to coring.

NOTES:
 1) Stratification Lines Represent Approximate Boundary Between Material Types. Transitions May Be Gradual.
 2) Water Level Readings Have Been Made At Times And Under Conditions Stated. Fluctuations Of Groundwater May Occur Due To Other Factors Than Those Present At The Time Measurements Were Made.
 A.C. = After coring, N.R. = Not Recorded.
 3) Sample Type Coding: N=Auger, C=Cone, D=Driver, G=Grab, PS=Push Sampler, SS=Split Barrel (Split Spoon), ST=Sturdy Tube, Geo=GeoProbe V=Vane.
 WOH=Wt. of Soil Hammer
 4) Proportion Used Trace = 1-10%, Little = 10-20%, Some = 20-35%, And = 35-50%.
 5) Stratification lines represent approximate boundary between material types. transitions may be gradual.

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	Number				0-6	6-12	12-18	18-24		Depth & Elevation (feet)	Classification System: <i>Burmister</i>
5	C3	C	60	60	29.5	[REC= 100%; RQD= 90%]			8.5	501.5 BEDROCK (Metagraywacke) (Continued)	C3) Similar rock type to C1 except with moderately hard to hard, 15 cm (6 in) zone of white quartz/calcite banding at 9.91 m (32.5 ft) to 10.06 m (33 ft) deep. Quartzite/calcite banding reacts weakly to diluted HCl.
35									8.5	34.5 Bottom of Exploration at 34.5 ft	
40											
45											
50											
55											
60											

5) Brief water loss noted at 6.77 m (22.2 ft) deep during coring through possible bedrock seam.
 6) Lab moisture contents (ASTM D2216) for S6 range between 15.6% (top of sample) and 33.5% (bottom of sample).
 7) Lab moisture contents (ASTM D2216) for S7 range between 53.1% (top of sample) and 57.4% (bottom of sample).

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BORING LOGS #1	PROJECT NAME: JERICHO	PLOT DATE: 4/7/2014
	PROJECT NUMBER: STP FTBR (3)	DRAWN BY: D.M.D.
	PROJECT LEADER: M.D.S.	CHECKED BY: P.M.P.
	DESIGNED BY: D.M.D.	SHEET 22 OF 62

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 DATE/TIME = 4/7/2014
 USER = 496