STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bridge Geotechnical Investigation
Montgomery County Highway Route No. 7
(FAS 723) Section 08-00129-00-BR
Existing Structure No. 068-3012
Project #132-3928

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: April 7, 2009 (Revised 6/24/09)
BORING TECH.: J. Weiser
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2
STATION: 442+04, 9' RT
SURFACE ELEV.: 634.1 ft.

GROUNDWATER ELEV.
COMP.: -10.6 ft; Bridge at -18.2 ft.
AFTER 24 HRS.: - 7.6 ft.;
Bridge at -26.7 ft.

Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
7" Oil and Chip Road Surface 3" Aggregate	0				
SILTY CLAY (CL), Brown, Moist, Medium Stiff		4	3.43	18.3	40
Brown, Dark Brown, Mottled	5	3	1.01	18.3	50
Very Soft		1	--	--	NS
CLAY (CL), Gray, Moist, Medium Stiff	10	3	1.21	16.9	100
SILTY CLAY LOAM (CL), Brown, Gray, Mottled, Moist, Medium Stiff		4	2.02	17.1	90
SANDY LOAM (SP), Brown, Moist to Wet, Very Loose, Trace of Gravel	15	2	NP	--	35
Thin Gray Till Layer			5.05	17.2	
SAND (SP), Brown, Saturated, Fine To Medium Coarse, Little Gravel		58	NP	--	100
CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand and Gravel	20	60	5.05	16.8	95

Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	20				
		66	4.04	17.0	100
	25	87	4.04	18.3	95
		32	4.65	16.8	100
Stiff	30	14	3.84	17.0	95
Brown, Gray, Mottled	35	10	3.64	17.2	100
Gray, Hard	40	44	5.05	18.4	100

N:Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

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Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand and Gravel	40				
Very Stiff	45	23	5.05	16.3	100
Hard	50	55	5.05	16.7	100
End of Exploration at 50.0 ft.	55				
	60				

Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	60				
	65				
	70				
	75				
	80				

Note:
Borehole backfilled with soil cuttings upon final groundwater measurement.

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DESIGNED	JLG
CHECKED	JSP
DRAWN	UJ
CHECKED	CJC

HR
HURST-ROSCHE ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298

BORING LOGS
STRUCTURE NO. 068-3359

SHEET NO. 9	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	723	08-00129-00-BR	MONTGOMERY	18	13
			CONTRACT NO. 93498		
	FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		