Christian County Bridge
Buckhart Township, Bridge #12,
County Road 2400N
Project # 181-0468

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

DATE: March 12 - 13, 2008
BORING TECH.: A. Staggemeyer
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 1
STATION: 10+41, 3' RT
SURFACE ELEV.: 99.2 ft.

GROUNDWATER ELEV.
COMP.: - 5.2 ft.
AFTER 24 HRS.: -2.9 ft.;
Bridge at -32.4 ft.

Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
Oil and Chip Roadway	0				
CLAY LOAM (CL), Brown, Moist, Medium Stiff			B-S		
		4	1.54	29.1	75
SILTY CLAY (CL), Brown, Reddish Brown, Mottled, Moist, Soft			B		
	5	2	0.28	21.9	80
CLAY LOAM (CL), Gray, Dry to Moist, Medium Stiff, Trace of Sand			B-S		
		5	1.62	27.7	95
Gray and Green			B		
	10	4	0.97	29.9	50
SANDY CLAY LOAM (CL), Gray, Green, Brown, Mottled, Soft			P		
		2	0.25	28.4	100
Wood, Black, Friable					
	15	3	NP	--	100
SILTY CLAY (CL), Gray, Moist to Wet, Soft, Trace of Gravel			B		
		3	0.40	22.5	75
Gray, Brown, Mottled, Moist, Medium Stiff, Trace of Gravel			B		
	20	6	1.41	21.2	80

Description	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	20				
SILT (ML), Brown, Moist, Very Stiff			S		
		14	3.43	25.5	80
Possible Gravel Layer			P		
SILTY CLAY (CL), Brown, Moist, Stiff	25	20	1.50	15.6	45
SILTY CLAY TILL (CL), Gray, Brown, Mottled, Dry to Moist, Trace of Gravel			B-S		
		26	>5.05	11.7	100
Gray, Dry, Hard			S		
	30	100/9"	3.03	10.0	90
Trace of Sand and Gravel			B		
		71	>5.05	10.6	100
			B		
	35	63	>5.05	11.2	100
Possible Thin Gravel Layer					
			B-S		
	40	52	>5.05	12.0	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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SILTY CLAY TILL (CL), Gray, Dry, Hard, Trace of Sand and Gravel	40				
			B		
	45	75	>5.05	11.5	100
End of Exploration at 45.0 ft.					
	50				
	55				
	60				

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

Notes:
1) Borehole backfilled with soil cuttings upon final water table measurement.
2) Local benchmark equal to 100.0 ft. provided by county highway department was used to determine elevations.
3) Center of bridge was assigned a station of 10+00 with stationing increasing to the east.
4) Creek flowline elevation = 91.2 ft. at the time of investigation.

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