

Christian County Bridge
Greenwood Township
Existing Structure No. 011-3247
Project #181-2979

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

DATE: September 16, 2009
BORING TECH.: M. Malafa
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO. 1	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC	
Station: 10 ft. E. of E.	Value	(tsf)	(%)	(%)	COMP.: -10.4 ft.; Bridge @ -10.7 ft.	Value	(tsf)	(%)	(%)	
Abutment: 12 ft. S. of Centerline					AFTER 24 HRS.: -8.6 ft.;					
SURFACE ELEV.: 610.7 ft.					Bridge @ -11.1 ft.					
SILTY CLAY LOAM (CL), Dark Brown, Dry to Moist, Medium Stiff	0				20					
	7	2.75	17.2	55		8	NP	28.5	90	
	5	4	1.5	21.1	65	19	2.76	14.9	55	
Few Sand										
	3	0.5	19.0	90		27	>4.5	13.7	90	
LOAM, Dark Brown, Wet, Very Soft	10	1	--	21.0	100	30	40	>4.5	11.8	90
SILTY CLAY (CL), Gray, Reddish- Brown, Mottled, Moist to Wet, Very Soft, Few Sand and Gravel	2	0.25	20.8	95						
	15	1	0.25	25.1	66	35	43	2.5	15.2	90
SILTY LOAM (MH), Gray, Wet, Very Soft	1	0.5	20.2	60						
SAND (SP), Gray, Saturated, Loose, Fine	20	7	NP	17.5	100	40	53	>4.5	12.1	100

N: Blows per ft. to Drive 2" O.D. Soil Spoon Sampler
12" with 140 lb. Hammer falling 30"
(Standard Penetration Test)
ROD: 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 LOAM TILL (ML), Gray, Dry to Moist, Hard, Trace of Sand and Gravel	40				60					
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand and Gravel	45	38	>4.5	11.7	96	55	28	>4.5	17.7	100
	60	70	>4.5	10.7	95	70				
	65	28	>4.5	17.7	100	75				
	80	32	>4.5	11.4	100	80				

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Notes:
1) Boring backfilled with soil
cuttings upon completion of final
groundwater measurement.
2) Creek flowline at approximate
elevation of 601.1 ft. at time
of boring activities.
3) Elevations based on local
benchmark provided by
Christian County Highway Dept.



FILE NAME = J:\09029\CADD\CAD\sheets\SN 011-3417\08	USER NAME = amendeh	DESIGNED - NIEWINSKI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOG NO. 1 STRUCTURE NO. 011-3417	T.R. 307A	SECTION 08-04118-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 17	
PLOT SCALE = 0.2" = 1' / in.	PLOT DATE = 5/3/2011	CHECKED - TRELLO	REVISED -			SHEET NO. 9 OF 10 SHEETS		ILLINOIS FED. AID PROJECT: BR05-0021 (175)			
		DRAWN - VERENSKI	REVISED -			CONTRACT NO. 090567					
		CHECKED - TRELLO	REVISED -			CONTRACT NO. 090567					