Christian County Bridge
Greenwood Township
Existing Structure No. 011-3247
Project #161-3879

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

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

FOUNDATION BORING LOG

BORING NO.: 1
Station: 10 ft. E. of E.
Abutment: 12 ft. S. of Centerline
SURFACE ELEV.: 610.7 ft.

GROUNDWATER ELEV.
COMP.: -10.4 ft.; Bridge @ -18.7 ft.
AFTER 24 HRS.: -9.5 ft.;
Bridge @ -11.1 ft.

	N Value	Qu (tsf)	W (%)	REC (%)
SILTY CLAY LOAM (CL), Dark Brown, Dry to Moist, Medium Stiff	7	2.75	17.2	85
		P		
Few Sand	4	1.5	21.1	85
		P		
	3	0.5	18.9	80
LOAM, Dark Brown, Wet, Very Soft	1	--	21.9	100
		P		
SILTY CLAY (CL), Gray, Reddish-Brown, Mottled, Moist to Wet, Very Soft, Few Sand and Gravel	2	0.33	20.8	95
		P		
	1	0.25	25.1	95
SILTY LOAM (SM), Gray, Wet, Very Soft	1	0.5	20.2	60
		P		
SAND (SP), Grey, Saturated, Loose, Fine	7	N/T	17.6	100

	N Value	Qu (tsf)	W (%)	REC (%)
SILT (ML), Gray, Moist, Medium Stiff	8	NP	28.5	90
		P		
SILTY LOAM TILL (ML), Gray, Dry to Moist, Very Stiff, Trace of Sand	19	2.75	14.9	85
		P		
	27	>4.5	13.7	90
Hard		P		
	40	>4.5	11.8	90
SILT (ML), Gray, Moist, Hard		P		
	43	2.5	15.2	90
SILTY LOAM TILL (ML), Gray, Dry to Moist, Hard, Trace of Sand and Gravel		P		
	48	>4.5	12.1	100

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

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

RQD: Rock Quality Determination

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SILTY LOAM TILL (ML) Gray, Dry to Moist, Hard, Trace of Sand and Gravel		P		
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand and Gravel	35	>4.5	11.7	95
		P		
	30	>4.5	10.7	90
		P		
	55	>4.5	12.7	100
		P		
	60	>4.5	11.4	100

	N Value	Qu (tsf)	W (%)	REC (%)
		P		
	32	>4.5	13.0	95
End of Exploration at -85.0 ft.				
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.				

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GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
SPRINGFIELD, ILLINOIS 62701
PROFESSIONAL DESIGN FIRM NO. 184-000179
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION
217-793-3954, 217-793-3201 (FAX) - e-mail: - cooley@greenebradford.com

FILE NAME = J:\09029\CADD\CADsheets\SN 011-3417\08B4118-09029-Sht-Boring.dgn	USER NAME = amandah	DESIGNED - NIEWINSKI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOG NO. 1 STRUCTURE NO. 011-3417 SHEET NO. 9 OF 10 SHEETS	T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.2 '' / in.	DRAWN - VERENSKI	REVISED -			307A	08-04118-00-BR	CHRISTIAN	26	17
	PLOT DATE = 5/3/2011	CHECKED - TRELLO	REVISED -						CONTRACT NO. 93567	
PLOT DRIVER = V8i_PDF.pltcfg								ILLINOIS FED. AID PROJECT: BROS-0021 (118)		