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

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

DATE: September 17, 2009
BORING TECH.: M. Malisia
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2 Station: 15 ft. W. of W. Abutment; 11 ft. N. of Centerline SURFACE ELEV.: 612.3 ft.	Depth	N Value	Qu (tsf)	W (%)	REC (%)	GROUNDWATER ELEV. COMP.: -10.1 ft.; Bridge @ -16.3 ft. AFTER 24 HRS.: --	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	0						20				
SILTY LOAM (ML), Dark Brown, Dry, Medium Stiff			P			Loose					
		3	1.0	15.9	20	SILTY CLAY (CL), Gray, Dry to Moist, Hard, Trace of Sand		7	NP	17.2	80
			P						P		
SILTY CLAY LOAM (CL), Dark Brown, Dry to Moist, Medium Stiff	5	3	2.0	18.5	85		25	43	>4.5	13.4	85
SILTY CLAY (CL), Dark Brown, Moist, Stiff, Trace of Sand			P			Very Stiff			P		
		5	3.0	17.7	95			22	>4.5	14.2	70
Medium Stiff									P		
	10	5	1.75	19.3	100		30	14	4.0	16.4	85
SILTY CLAY LOAM (CL), Gray, Reddish-Brown, Mottled, Moist to Wet, Soft, Trace of Sand			P								
		2	0.5	23.0	95						
SAND (SP), Light Brown, Saturated, Very Loose, Fine, Trace of Fines						CLAY (CL), Gray, Moist, Stiff, Trace of Sand			P		
	15	1	NP	24.0	50		35	9	2.5	16.8	90
SILTY LOAM (ML), Gray, Wet, Very Soft, Trace of Sand			P			SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse					
		1	0.75	28.3	55						
SAND (SP), Gray, Saturated, Very Loose, Fine, Trace of Clay	20	1	NP	29.7	100		40	100/10"	NP	12.2	80

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

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

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

DATE: September 17, 2009
BORING TECH.: M. Malisia
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2 Station: 15 ft. W. of W. Abutment; 11 ft. N. of Centerline SURFACE ELEV.: 612.3 ft.	Depth	N Value	Qu (tsf)	W (%)	REC (%)	GROUNDWATER ELEV. COMP.: -10.1 ft.; Bridge @ -16.3 ft. AFTER 24 HRS.: --	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	40						60				
SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse											
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand			P			Very Stiff, Trace of Gravel			P		
	45	36	>4.5	12.2	100		65	24	>4.5	13.4	100
			P						P		
	50	26	>4.5	12.5	100		70	28	>4.5	14.3	95
SILTY LOAM TILL (ML), Gray, Dry to Moist, Very Stiff			P			Hard			P		
	55	21	>4.5	16.3	80		75	35	>4.5	11.1	100
SILTY CLAY TILL (CL), Gray, Dry to Moist, Stiff, Trace of Sand			P						P		
	60	13	3.6	23.5	80		80	37	>4.5	12.8	95
						End of Exploration at -80.0 ft.					

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

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

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

DATE: September 17, 2009
BORING TECH.: M. Malisia
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2 Station: 15 ft. W. of W. Abutment; 11 ft. N. of Centerline SURFACE ELEV.: 612.3 ft.	Depth	N Value	Qu (tsf)	W (%)	REC (%)	GROUNDWATER ELEV. COMP.: -10.1 ft.; Bridge @ -16.3 ft. AFTER 24 HRS.: --	Depth	N Value	Qu (tsf)	W (%)	REC (%)
	80						100				
Notes: 1) Boring backfilled with soil cuttings upon completion of final groundwater measurement. 2) Creek flowing at approximate elevation of 601.1 ft. at time of boring activities. 3) Elevations based on local benchmark provided by Christian County Highway Dept.	85						105				
	90						110				
	95						115				
	100						120				

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

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
3501 CONSTITUTION DRIVE
SPRINGFIELD, ILLINOIS 62711-7007
PROFESSIONAL DESIGN FIRM NO. 184-000179
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION
(217) 793-8844, (217) 793-6227 (F), E-MAIL - gedagreeneandbradford.com

FILE NAME = J:\09029\CADD\CADsheets\SN 011-3417\08-04118-09029-Sht-Boring.dgn	USER NAME = amandah	DESIGNED - NIEWINSKI	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**BORING LOG NO. 2** **STRUCTURE NO. 011-3417**	T.R. RTE.: 307A	SECTION: 08-04118-00-BR	COUNTY: CHRISTIAN	TOTAL SHEETS: 26	SHEET NO.: 18
	PLOT SCALE = 0.1 ':' / in.	CHECKED - TRELLO	REVISED -					CONTRACT NO. 93567		
	PLOT DATE = 5/3/2011	DRAWN - VERENSKI	REVISED -		SHEET NO. 10 OF 10 SHEETS		ILLINOIS	FED. AID PROJECT: BROS-0021 (178)		
		CHECKED - TRELLO	REVISED -							

PLOT DRIVER = V81_PDF.pltcfg