HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-10064 Bridge Over Sugar Creek Date: 4/2/2010
Section: 09-02117-00-BR Station
Structure: Bored by: J. Carter
County: Edwards Checked By: T. Holcomb

Boring No: 1
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 392.7
Upon Completion 406.2

	Elevation	N	Qu tsf	w %
Ground Surface	411.2			
1" A-3 Surface over 5" Gravel	410.7			
Brown Silty CLAY (A-6) with sand		12	2.6S	16
	407.7			
Gray Mottled Brown Sandy CLAY (A-6)		4	1.0B	21
	-5	2	0.4B	24
		3	1.0B	18
	-10 400.2			
Brown Mottled Gray Silty (A-6)		14	2.6S	25
	-15	13	2.8S	19
	395.2			
Brown Sandy CLAY (A-6)		22	4.2B	13
	392.7			
Brown Fine to Medium SAND (A-2-4)	-20	19	--	19
	390.2			
Brown Sandy CLAY to Clayey SAND (A-6) to A-2-4)		33	--	22

(continued)

	Elevation	N	Qu tsf	w %
	-25	24	--	25
	384.2			
Gray Sandy CLAY (A-6)		34	1.2S	11
	-30	18	2.9B	18
		24	3.5B	19
	-35			
	-40	15	2.9B	18

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

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Surface Water Elev.
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	Elevation	N	Qu tsf	w %
sandy clay (continued)	45	14	2.2B	17
	-50	20	3.5B	21
	357.7			
Gray Silty CLAY (A-6) with sand		18	2.6B	18
	-55			
	-60	16	1.4S	15
	347.7			
Brown Silty CLAY (A-6) with sand	-65	15	1.0B	24

clay (continued)

	Elevation	N	Qu tsf	w %
	341.7			
Brown Medium SAND (A-2-4)	-70	2	--	24
	341.2			
End of Boring @ -70.0'				
	-75			
	-80			
	-85			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
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BORING 1

FILE NAME = 100059-sht-bridge.dgn	USER NAME =	DESIGNED - D.W.T.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -	
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -	
	PLOT DATE = 5/23/2011	CHECKED - S.W.M.	REVISED -	

STATE OF ILLINOIS
EDWARDS COUNTY HIGHWAY DEPARTMENT

BORINGS
STRUCTURE NO. 024-3139
SHEET NO. 8 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25	09-02117-00-BR	EDWARDS	13	12
ROAD DISTRICT #2		CONTRACT NO. 95661		
ILLINOIS	FED. AID PROJECT			