Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 1705-B-10

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 588.29 ft
North: 1898131.01 ft
East: 1171315.43 ft
Station: 1833+49.76
Offset: 256 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	12-inch thick, dark brown LOAM						
587.3	--TOPSOIL--						
	Medium dense, brown LOAM, trace gravel, crushed stone, and brick fragments --FILL--			1	4 10 7	NP	10
584.3	Medium dense, brown SAND --FILL--	5		2	9 6 5	NP	8
582.8	Very stiff, gray SILTY CLAY, trace gravel			3	3 3 3	3.50 P	16
580.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		4	3 2 3	0.41 B	22
	--In-Situ Vane Shear, 13.0 feet-- --Su undis = 1061.9 psf-- --Su remold = 543.9 psf-- --Sensitivity = 1.95--			5	1 2 3	0.49 B	19
		15		6	2 2 3	0.41 B	20
	--In-Situ Vane Shear, 18.0 feet-- --Su undis = 1191.4 psf-- --Su remold = 543.9 psf-- --Sensitivity = 2.19--	20		7	0 2 1	0.33 B	25
	--In-Situ Vane Shear, 23.0 feet-- --Su undis = 802.9 psf-- --Su remold = 414.4 psf-- --Sensitivity = 1.94--	25		8	1 2 2	0.41 B	22
				9	0 0 1	0.16 B	22
				10	0 2 1	0.25 B	24
	--LL(%)=35, PL(%)=17-- --%Gravel=2.9-- --%Sand=13.3-- --%Silt=49.9-- --%Clay=33.9-- --A-6 (14)--			11	1 1 2	0.08 B	26
	--In-Situ Vane Shear, 28.0 feet-- --Su undis = 699.3 psf-- --Su remold = 414.9 psf-- --Sensitivity = 1.69--	30		12	0 2 2	0.08 B	22
	--In-Situ Vane Shear, 35.5 feet-- --Su undis = 880.6 psf-- --Su remold = 518.0 psf-- --Sensitivity = 1.70--	35		13	0 0 1	0.16 B	25
	--In-Situ Vane Shear, 40.5 feet-- --Su undis = 1809.5 psf-- --Su remold = 1137.4 psf-- --Sensitivity = 1.59--	40		14	0 3 3	0.57 B	23
	--In-Situ Vane Shear, 45.5 feet-- --Su undis = 2585.0 psf-- --Su remold = 1551.0 psf-- --Sensitivity = 1.66--	45		15	2 2 4	0.33 B	19
541.5	Very stiff, gray SILTY CLAY, trace gravel	50		16	5 8 14	2.79 B	19

GENERAL NOTES

Begin Drilling: 07-30-2013 Complete Drilling: 08-01-2013
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR
Driller: R&J Logger: A. Tomaras Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: NA
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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533.8	Medium dense, gray, medium SAND	55		17	8 12 17	4.84 B	14
531.5	Hard, gray SILTY CLAY, trace gravel and fine sand lenses	60		18	6 10 20	4.02 B	19
		65		18	5 12 30	4.18 B	19
521.5	Stiff, gray, laminated layers of CLAY and SILT	70		20	5 4 6	1.31 B	27
516.5	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	75		21	10 14 31	9.51 S	12
504.0	Very dense, gray SILT to SILTY LOAM, trace to some gravel	80		22	18 22 25	8.94 S	13
		85		23	37 37 50/5	4.35 S	13
	--HARD DRILLING (5 min/0.5')-- --Possible Cobbles--	90		24	50/2	NP	11
	--HARD DRILLING-- --Possible Cobbles--	95		25	50/5	NP	11
492.0	Very dense, gray SILT	100		26	20 26 40	NP	17

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486.5	Very dense, gray GRAVELLY SAND, trace cobbles --HARD DRILLING-- --Possible Cobbles--	105		27	50/2	NR	
481.3	Strong, poor to fair rock quality, light gray, fresh, vertical and horizontal joints, joint breaks with little to no infill, horizontal stylolites, slightly vuggy DOLOSTONE	110	CORE				
	--Run 1 - RECOVERY= 97.5%-- --RQD(top 5ft)=73%-- --RQD(10ft)=50%--			1		NP	
		115					
471.3	Boring terminated at 117.00 ft	120					
		125					

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WANGENG.CDT 11/12/13 WANGENG.GPJ 1100A01.GPJ

0161705-60W28-S161-Boring.dgn

AECOM	USER NAME = floresg	DESIGNED - ABT	REVISED
		CHECKED - EJO	REVISED
	PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
	PLOT DATE = 5/7/2014	CHECKED - ABT	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS - XIII
STRUCTURE NO. 016-1705

SHEET NO. S-161 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	469H

CONTRACT NO. 60W28

ILLINOIS FED. AID PROJECT