SOIL BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

PAGE 1 of 2
DATE August 1, 2011
LOGGED BY JW
OBA JOB No. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Cantilever Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG CN-3
Station Sta. 46+90
Offset 58.0 ft Right
Ground Surface Elev. 649.5 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, STONE, SAND & SILT FILL			5		97
			5		
			7	2.5B	24
	646.5				
SILTY CLAY-brown & gray- very stiff to hard (A-6) FILL			5		
			6		
		-5	8	3.25P	18
			6		115
			9		
			10	6.5B	14
			4		
			5		
		-10	6	2.0P	16
	638.5				
ORGANIC CLAY-black- stiff (A-7) wet			3		
			3		
			3	1.0P	36
	636.0				
CLAY-brown & gray- stiff to hard (A-6)			2		106
			2		
		-15	3	1.2B	21
			4		109
			8		
			14	5.0B	20
	631.0				
CLAY-gray- stiff to very stiff (A-6)			5		111
			8		
		-20	12	3.7B	19
CLAY-gray- stiff to very stiff (A-6)			4		128
			7		
			10	3.3B	12
			3		97
			4		
wet		-25	7	1.6B	27
			5		117
			6		
			11	3.3	16
			4		116
			6		
		-30	8	3.2	17
			4		110
			5		
		-35	5	1.5B	19
	611.0				
SILT-gray- very dense (A-4)			40		
			50/		
		-40	5"	NP	16

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ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Cantilever Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG CN-3
Station Sta. 46+90
Offset 58.0 ft Right
Ground Surface Elev. 649.5 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray- very stiff (A-6)					
			9		112
			7		
		-45	10	3.5B	14
			7		122
			9		
	599.5	-50	13	3.9B	14
End of Boring @ -50' 4.0" Hollow Stem to -10.0' Rotary Drilling Started at -10.0' CME Automatic Hammer					
		-55			
		-60			
		-65			
		-70			
		-75			
		-80			

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PAGE 1 of 1
DATE August 17, 2011
LOGGED BY JW
OBA JOB No. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Cantilever Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 4.25" Hollow Stem
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG CS-2
Station Sta. 85+76
Offset 74.8 ft Left
Ground Surface Elev. 642.3 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 614.8 ft
Cave In After 614.8 ft
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" BLACK TOPSOIL FILL	641.7				
			4		105
Misc. CLAY FILL-brown and black- medium to very stiff (A-6) generally wet			4		
			4	2.6B	20
			2		96
			2		
		-5	4	1.7B	27
			2		
			3		
			4	2.5P	23
			2		82
			2		
		-10	2	0.9B	34
			2		
			2		
			4	1.0P	26
			2		97
			2		
		-15	2	1.0P	27
	626.3				
			2		94
CLAY-gray- medium to very stiff (A-6)	wet		3		
			4	0.3B	27
			3		104
			3		
		-20	6	2.4B	23
CLAY-gray- hard (A-6)			5		119
			8		
			12	4.2B	15
			6		117
			9		
		-25	13	4.6B	15
	616.3				
SAND & GRAVEL-gray- medium dense (A-1)			7		
			9		
			10	NP	26
	613.8				
SILTY LOAM-gray- medium to very dense (A-4)			20		
			45		
		-30	30	NP	17
			12		112
			16		
		-35	18	NP	18
			4		
			8		
		-40	4	NP	19
End of Boring @ -40' CME Automatic Hammer	602.3				

BOR-14

DELTA ENGINEERING GROUP, LLC

USER NAME = kkhan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = 10/10/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
MANNHEIM ROAD SIGN STRUCTURE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS-1	COOK	605	433
		CONTRACT NO. 60G37		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-14.dgn