SOIL BORING LOG

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

PAGE 1 of 1
DATE August 31, 2011
LOGGED BY TOB
OBA JOB No. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Truss Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE Diedrich Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TS 5-1
Station Sta. 113+11
Offset 136.9 ft Left
Ground Surface Elev. 638.7 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 (%)
Black TOPSOIL	637.7				
SILTY CLAY-brown & gray- stiff to hard (A-6)			3		106
			5		
			8	5.5B	21
			3		110
			6		
		-5	9	6.2B	19
			6		D
			9		
			10	1.5P	23
	630.2				
CLAY-gray- stiff to vey stiff (A-6)			3		111
			5		
		-10	8	2.4B	19
			3		96
			6		
			7	1.0P	28
wet -11.0' to -16.0'					
			3		100
			5		
		-15	5	2.9B	25
			4		120
			6		
			9	3.3B	15
			4		117
			6		
		-20	6	2.7B	16

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray- stiff to vey stiff (A-6)			3		116
			4		
			7	2.1B	16
	615.7				
SANDY SILT-gray- very dense (A-4)			14		
			30		
		-25	30	NP	16
			30		
			44		
			50	NP	16
			32		
			40		
	608.7	-30	50/5"	NP	16
End of Boring @ -30' 4.0" Hollow Stem to -5.0' Rotary Drilling Started at -5.0' Diedrich Automatic Hammer					
		-35			
		-40			

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PAGE 1 of 1
DATE August 9, 2011
LOGGED BY JW
OBA JOB No. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Truss Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TS 5-2
Station Sta. 113+04
Offset 78.0 ft Left
Ground Surface Elev. 641.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 623.2 ft
Upon Completion 631.2 ft
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, STONE, SAND & SILT FILL	640.2				
SILTY CLAY-brown & gray- stiff to very stiff (A-6)			4		99
			4		
			6	3.5B	24
			2		114
			3		
sandy below -6.0'		-5	4	2.7B	17
			3		116
			6		
			10	3.2B	17
			4		125
			5		
		-10	6	1.8B	13
	630.2				
SILTY CLAY-gray- stiff to very stiff (A-6)			3		125
			6		
			6	1.5B	13
			3		104
			5		
		-15	6	2.7B	22
			4		102
			5		
			8	2.9B	22
			5		113
			5		
		-20	9	1.0B	18

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray- stiff to very stiff (A-6)			4		116
			7		
			10	2.5B	15
			5		113
			8		
hard		-25	11	4.4B	16
	615.2				
SILT-gray- dense to very dense (A-4)			6		
			14		
			28	NP	16
			26		
			50/5"	NP	16
	611.2	-30			
End of Boring @ -30.0' CME Automatic Hammer					
		-35			
		-40			

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1235 E. DAWS ST./ARLINGTON HTS., IL 60005
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PAGE 1 of 1
DATE September 16, 2011
LOGGED BY TOB
OBA JOB No. 11584

ROUTE Mannheim Road
DESCRIPTION I-190 Collector-Distribution Roadway Improvements: Sign
SECTION Sectionxx
LOCATION Mannheim Road Reconstruction, Il. Rte. 19 North to I-190, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. DMS-01
Station Sta. 59+95
Offset 85.0' Right
Ground Surface Elev. 644.0 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 638.0
Upon Completion n/a
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black TOPSOIL FILL	643.0				
SILTY CLAY-brown & black- very stiff (A-6)			4		
			3		
			5	3.5P	16
	640.5				
SILTY CLAY-brown & gray- stiff to hard (A-6)			1		D
			1		
		-5	2	1.25P	21
			3		108
			5		
			8	5.5B	20
			4		107
			8		
		-10	10	4.6B	20
			5		108
			9		
			12	4.6B	21
	630.5				
SILTY CLAY-gray- stiff (A-6)			3		106
			6		
		-15	8	1.9B	21
			1		102
			2		
			5	1.2B	24
wet					97
	625.0		3	1.9B	27
SAND-gray- medium dense (A-3)			9		
		-20	10		14

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY-gray- stiff to hard (A-6)			4		124
			7		
			9	4.5+P	13
			3		116
			5		
		-25	9	1.9B	17
			4		110
			8		
			13	3.5B	19
	615.5				
			19		
			32		
		-30	35	NP	15
SILT LOAM-gray- medium to very dense (A-4)					
			20		
			22		
		-35	19	NP	20
End of Boring @ -40' 4.0" Hollow Stem to -10.0' Rotary Drilling Started at -10.0' CME Automatic Hammer					
			5		
			6		
	604.4	-40	9	NP	20

BOR-17

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: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS-1	COOK	605	436
		CONTRACT NO. 60G37		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-17.dgn