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 1
DATE August 16, 2011
LOGGED BY JW
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Distribution Roadway Improvements
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Straight Flight Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. NMR-19
Station 177+03
Offset 33.5 ft Right
Ground Surface Elev. 638.9 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 630.4
Upon Completion 628.9
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" Black TOPSOIL FILL	638.1				
SILTY CLAY LOAM-brown, spotted black-stiff (A-6) Fill LL=36 PL=19 PI=17			4		112
			4		
			4	1.9B	19
	635.9				
			3		94
wet			4		
CLAY-brown & gray-stiff to hard (A-6)		-5	4	1.5B	29
			5		109
			6		
			6	2.5B	20
			8		109
			11		
	628.9	-10	15	5.6B	20
End of Boring @ -10.0' CME Automatic Hammer					
		-15			
		-20			
		-25			
		-30			
		-35			
		-40			

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PAGE 1 of 1
DATE August 22, 2011
LOGGED BY TOB
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Distribution Roadway Improvements
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Straight Flight Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. NMR-20
Station 180+00
Offset 44.4 ft Left
Ground Surface Elev. 637.9 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 631.9
Upon Completion 631.9
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black TOPSOIL wet			3		
Organic Content = 6.8%			5		
			5	3.5P	29
	634.4				
			3		93
CLAY-brown & gray-medium stiff (A-6) wet		-5	1		
			1	0.8B	29
	631.9				
			4		105
CLAY-brown & gray-hard (A-6)			4		
			11	4.0B	21
	629.4				
			3		111
CLAY-gray-very stiff (A-6)			7		
	627.9	-10	10	3.5B	19
End of Boring @ -10.0' CME Automatic Hammer					
		-15			
		-20			
		-25			
		-30			
		-35			
		-40			

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ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Distribution Roadway Improvements
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Straight Flight Auger
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. NMR-21
Station 182+99
Offset 47.5 ft Right
Ground Surface Elev. 638.8 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 633.8
Upon Completion 628.8
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" Black TOPSOIL FILL	638.0				
SILTY CLAY LOAM-brown and black-stiff (A-7) Fill wet LL=51 PL=31 PI=20 Organic=6.3%			3		
			3		
			3	1.5P	28
	635.3				
			2		
			2		
CLAY-brown & gray-stiff (A-6)		-5	4	1.0P	16
			3		106
			5		
			7	1.2B	22
			2		
wet			3		
	628.8	-10	4	--	26
End of Boring @ -10.0' CME Automatic Hammer					
		-15			
		-20			
		-25			
		-30			
		-35			
		-40			

BOR-7

DELTA ENGINEERING GROUP, LLC	USER NAME = kkhan	DESIGNED	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = $SCALE$	CHECKED	REVISED -
	PLOT DATE = 10/10/2012	DATE 10/19/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
MANNHEIM ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-WRS	COOK	537	338

CONTRACT NO. 60P35
ILLINOIS FED. AID PROJECT

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-07.dgn