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 2 of 2
DATE August 18, 2011
LOGGED BY AO
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Culvert
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. CB-02
Station 140+60
Offset 8.2 ft Left
Ground Surface Elev. 642.2 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- hard (A-6)					
			8		121
		-45	8 9	7.9B	14
			8		121
	592.2	-50	8 8	5.9B	14
End of Boring @ -50.0' 4.0" Hollow Stem to -6.0' Rotary Drilling Started at -6.0' CME Automatic Hammer					
		-55			
		-60			
		-65			
		-70			
		-75			
		-80			

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PAGE 1 of 2
DATE September 1, 2011
LOGGED BY TOB
OBA JOB No. 11585

ROUTE F.A.P. RTE. 330
DESCRIPTION I-190 Collector-Culvert
SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD 2.25" Hollow Stem Auger
HAMMER TYPE Diedrich Automatic

STRUCT. NO. –
Station –
BORING NO. CB-03
Station 140+74
Offset 63.9 ft Right
Ground Surface Elev. 641.2 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	640.2				
			1		103
			1 2	0.6B	22
SILTY CLAY-brown & gray- medium stiff to stiff (A-6)					
			2		109
		-5	2 3	1.5B	18
			2		
			1 1	1.5P	27
			2		108
		-10	3 5	2.0B	21
	630.2				
SILTY LOAM-gray- medium dense (A-4)			3 4 6	NP	23
	627.7				
CLAY-gray- very stiff to hard (A-6)			5		111
		-15	7 12	2.8B	19
			5 7 8	2.5P	18
			5		118
		-20	6 10	2.8B	16
CLAY-gray- very stiff to hard (A-6)					
			4		114
			5 8	2.6B	17
			4		109
		-25	5 8	2.9B	20
			6		120
			8 12	4.6B	15
			7		107
		-30	7 10	2.0B	21
	607.7				
SILTY LOAM-gray- medium dense (A-4)			12 12 16	NP	11
	602.7				
SILTY CLAY-gray- very stiff to hard (A-6)			5		119
		-40	7 13	3.0B	15

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SECTION 0105-WRS
LOCATION Mannheim Road Reconstruction, I-190 to North of Higgins, Chicago, IL
COUNTY Cook
DRILLING METHOD Rotary Mud
HAMMER TYPE Diedrich Automatic

STRUCT. NO. –
Station –
BORING NO. CB-03
Station 140+74
Offset 63.9 ft Right
Ground Surface Elev. 641.2 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 to hard (A-6)					
			4		109
		-45	9 15	4.8B	11
			5		131
	591.2	-50	10 13	7.7B	11
End of Boring @ -50.0' 4.0" Hollow Stem to -6.0' Rotary Drilling Started at -6.0' Diedrich Automatic Hammer					
		-55			
		-60			
		-65			
		-70			
		-75			
		-80			

BOR-15

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
BOX CULVERT

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	346
		CONTRACT NO. 60P35		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47849\D160P35-sht-bor-15.dgn