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 10, 2011
LOGGED BY JW
OBA JOB No. 11584

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

STRUCT. NO. xx
Station xx
BORING NO. SMR-13
Station Sta. 66+98
Offset 13.9 ft Left
Ground Surface Elev. 639.5 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, STONE, SAND & SILT-loose FILL			2		106
			4		
			4	4.3B	22
	635.5		5		
SANDY CLAY-brown-very stiff to hard (A-6)		-5	5		
			5	3.5P	16
	632.5		5		
			8		
			11	4.5P	18
CLAY-gray-very stiff to hard (A-6)			5		108
	629.5	-10	7		
			10	3.5B	21
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

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PAGE 1 of 1
DATE August 4, 2011
LOGGED BY JW
OBA JOB No. 11584

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

STRUCT. NO. xx
Station xx
BORING NO. SMR-14
Station Sta. 68+90
Offset 9.6 ft Right
Ground Surface Elev. 638.7 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Misc. CLAY, STONE, SAND & SILT FILL			4		
	637.2				
LL=49 PL=23 PI=26			5		
SILTY CLAY-brown & gray-very stiff (A-6) FILL			6	3.5P	22
	635.2				
			3		110
SILTY CLAY-brown & gray-hard (A-6)		-5	5		
			9	7.1B	19
	632.7				
			6		114
CLAY-gray-very stiff to hard (A-6)			10		
			13	4.0B	18
			5		109
	628.7	-10	6		
			11	3.8B	20
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

SOIL BORING LOG

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CONSULTING ENGINEERS
1235 E. DAWS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

PAGE 1 of 1
DATE August 23, 2011
LOGGED BY TOB
OBA JOB No. 11584

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

STRUCT. NO. xx
Station xx
BORING NO. SMR-15
Station Sta. 71+83
Offset 55.0 ft Left
Ground Surface Elev. 638.2 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 632.2
Upon Completion Dry
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black SAND & GRAVEL FILL	637.7				
CLAY-brown & gray-very stiff (A-6) FILL			3		102
			3		
			5	3.25P	24
			1		86
CLAY-brown & gray-medium (A-6) wet		-5	1		
			2	0.75P	36
			5		109
	631.2		8		
			11	4.9B	18
CLAY-gray-hard (A-6)			6		109
	628.2	-10	7		
			11	4.4B	19
End of Boring @ -10' CME Automatic Hammer					
		-15			
		-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-25			
-30			
-35			
-40			

BOR-5

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

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	424

CONTRACT NO. 60G37
ILLINOIS FED. AID PROJECT

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-05.dgn