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 8, 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-25
Station Sta. 101+25
Offset 9.9 ft Left
Ground Surface Elev. 641.3 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		98
	639.3		5		
LL=48 PL=23 PI=25			7	3.8B	23
CLAY-brown & gray-stiff to hard (A-7)			3		103
			4		
		-5	7	3.8B	18
			7		103
			9		
			14	5.2B	19
	632.8				
CLAY-gray-hard (A-6)			6		108
			11		
	631.3	-10	13	5.5B	17
End of Boring @ -10' CME Automatic Hammer		-15			
		-20			

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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-26
Station Sta. 104+94
Offset 10.4 ft Right
Ground Surface Elev. 643.7 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 (%)
SAND & GRAVEL FILL	642.7		4		
LL=45 PL=23 PI=22			6		
Misc. CLAY, STONE, SAND & SILT-medium dense FILL	640.2		9	2.5P	20
			2		97
SILTY CLAY-brown-stiff (A-6) wet			3		
		-5	6	1.9B	25
			3		
			4		
			6	1.5P	21
	635.2				
CLAY-gray-hard (A-6)			6		111
			10		
	633.7	-10	14	8.0B	19
End of Boring @ -10' CME Automatic Hammer		-15			
		-20			

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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-27
Station Sta. 107+79
Offset 9.7 ft Left
Ground Surface Elev. 644.1 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-medium dense FILL			4		108
			8		
			10	5.8B	16
	640.6				
			5		
SILTY CLAY-brown & gray-very stiff to hard (A-6)			7		
		-5	10	3.5P	25
			4		104
			6		
			8	3.5B	21
			5		104
			7		
	634.1	-10	11	5.2B	20
End of Boring @ -10' CME Automatic Hammer		-15			
		-20			

BOR-9

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	428
		CONTRACT NO. 60G37		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\caddlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-09.dgn