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 26, 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 TN 1-1
Station Sta. 71+08
Offset 13.2 ft Left
Ground Surface Elev. 638.4 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 (%)
Black SAND & GRAVEL FILL, trace roots	636.9		3		102
CLAY-mottled brown & gray- very stiff (A-6)s	634.9		3 5	2.2B	23
SANDY CLAY-brown- very stiff (A-6)	632.4		4 5		D
		-5	5	3.5P	12
CLAY-gray- stiff to very stiff (A-6)			3 7 9	3.7B	114 17
			3 5		106
		-10	8	2.7B	21
			3 3		115
			7	2.1B	17
			2 4		106
		-15	5	1.6B	22
			2 4		116
			6	2.3B	17
			2 5		115
		-20	5	1.6B	17
CLAY-gray- stiff to very stiff (A-6)	615.4		3 5		110
			8	2.8B	18
SILT-gray- dense to very dense (A-4)			18 31		
		-25	33	NP	14
			23 27		
			24	NP	11
			13 20		
	608.4	-30	25	NP	12
End of Boring @ -30.0' CME Automatic Hammer		-35			
		-40			

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 26, 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 CME Automatic

STRUCT. NO. xx
Station xx
BORING NO. SG TN 1-2
Station Sta. 71+04
Offset 64.2 ft Right
Ground Surface Elev. 639.9 ft

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 631.9 ft
Upon Completion 629.9 ft
After n/a Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black SAND & GRAVEL w/ASPHALT- dense (FILL)	636.9		17 15 18	NP	9
CLAY-brown & gray- very stiff to hard (A-6)			2		108
		-5	3 6	5.6B	21
			2 4		102
			7	3.6B	21
			3 6		102
		-10	9	2.9B	22
			3 4		104
			6	2.8B	23
	626.9				
CLAY-gray- stiff to hard (A-6)			2 3		105
		-15	6	2.5B	22
			3 4		115
			7	2.9B	17
			3 6		115
		-20	6	1.8B	17
CLAY-gray- stiff to hard (A-6)	613.9		silty 2 5		115
			6	1.5B	17
			2 6		115
		-25	12	5.1B	17
			18 24		
			22	NP	13
			23 30		
	609.9	-30	38	NP	16
End of Boring @ -30.0' CME Automatic Hammer		-35			
		-40			

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 8, 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 TN 2-1
Station Sta. 97+76
Offset 10.6 ft Left
Ground Surface Elev. 639.9 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 & SILT FILL	638.4		4		107
SILTY CLAY-brown & gray- hard (A-6)	636.4		7 9	5.0B	19
SILTY CLAY-gray- stiff to hard (A-6)			4 8		108
		-5	13	7.5B	17
			3 6		104
			9	4.1B	20
			4 5		103
		-10	9	3.0B	21
			2 4		100
			5	1.7B	23
			4 5		110
		-15	7	2.5B	18
			4 5		96
		wet	9	2.5B	26
		sandy	5 6		106
		-20	10	1.0B	22
SILTY CLAY-gray- very stiff to hard (A-6)	614.9		6 8 9	3.0B	95 26
			7 9		99
		-25	14	3.6B	26
End of Boring @ -25.0' CME Automatic Hammer		-30			
		-35			
		-40			

BOR-15

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	434
		CONTRACT NO. 60G37		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\cadlib\pw\kkhan\pwgreat_lakes\dms47844\D160G37-sht-bor-15.dgn