F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	194
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1238 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2278

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STRUCTURE FOUNDATION BORING LOG

Project: Walkup Road Phase II Roadway Improvements — OBA Job No.: 06600
Job No: 10-91-374-00 — Date: October 6, 2006
County: McHenry — Bored By: MB
Client: Teng & Associates, Inc. — Checked By: DDB
BORING No.: ST-1 — Surface Water Elev.: n/a
Station: 45+40 IL Rte 176 — Groundwater Elevation: Dry WD
Offset: 44' Left — Groundwater Elevation: Dry AB
Ground Surface Elevation: 917.5 (ft) — After Hours:

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY LOAM–dark brown–stiff (A–6) FILL		2		
		3		
		3	1.25P	16
914.8				
CLAY LOAM–brown–medium stiff (A–6)		4		
		4		
	–5	5	0.75P	23
911.6				
		3		
		2		
SAND & GRAVEL–brown–loose (A–1)		2	NP	8
		3		
		3		
907.0	–10	3	NP	12
		4		
		10		
COBBLES & GRAVEL–brown medium dense to very dense (A–1–a)		12	NP	8
		18		
		20		
901.5	–15	50	NP	7
Auger Refusal @ –16.0' Hollow Stem Augers Dietrich Automatic Hammer				
	–20			
	–25			
	–30			
	–35			
	–40			
	–45			
	–50			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample V–Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR–No Recovery

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STRUCTURE FOUNDATION BORING LOG

Project: Walkup Road Phase II Roadway Improvements — OBA Job No.: 06600
Job No: 10-91-374-00 — Date: October 6, 2006
County: McHenry — Bored By: MB
Client: Teng & Associates, Inc. — Checked By: DDB
BORING No.: ST-2 — Surface Water Elev.: n/a
Station: 46+15 IL Rte. 176 — Groundwater Elevation: Dry WD
Offset: 39' Left — Groundwater Elevation: Dry AB
Ground Surface Elevation: 918.7 (ft) — After Hours:

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SANDY LOAM–black–medium dense (A–4) Fill		6		
		6		
		8	2.5P	10
916.2				
CLAY LOAM–dark brown–stiff to (A–6)		6		
		6		
	–5	8	1.0P	19
913.2				
SAND–brown–loose (A–3)		2		
		3		
		3	NP	10
911.7				
		10		
		14		
SAND, GRAVEL & COBBLES–brown–dense to very dense (A–1–a)	–10	20	NP	5
		13		
		13		
		17	NP	5
		31		
		50/3"		
	–15		NP	3
		20		
		30		
		32	NP	5
		27		
		27		
	–20	39	NP	4
		50/4"		
			NP	3
End of Boring @ –25.0' Hollow Stem Augers Dietrich Automatic Hammer	893.7 –25	26	NP	3
	–30			
	–35			
	–40			
	–45			
	–50			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample V–Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR–No Recovery

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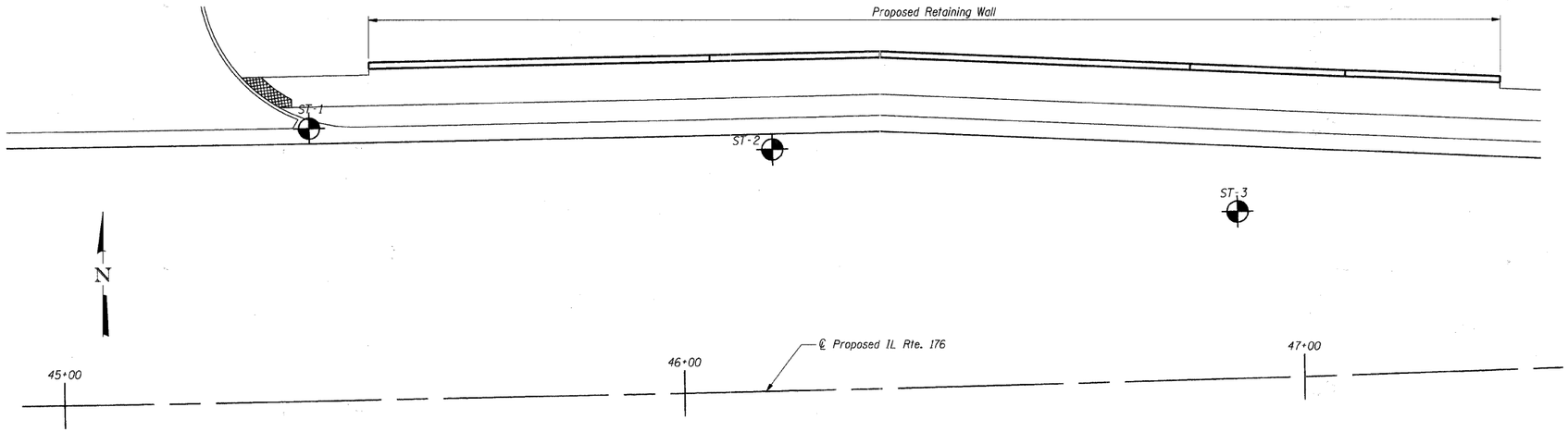
STRUCTURE FOUNDATION BORING LOG

Project: Walkup Road Phase II Roadway Improvements — OBA Job No.: 06600
Job No: 10-91-374-00 — Date: October 6, 2006
County: McHenry — Bored By: MB
Client: Teng & Associates, Inc. — Checked By: DDB
BORING No.: ST-3 — Surface Water Elev.: n/a
Station: 46+90 IL Rte. 176 — Groundwater Elevation: Dry WD
Offset: 27' Left — Groundwater Elevation: Dry AB
Ground Surface Elevation: 920.4 (ft) — After Hours:

	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" SANDY LOAM 919.4		4		
		5		
SAND & GRAVEL–brown–medium dense (A–1) Fill		7	NP	16
917.4				
		4		
		4		
CLAY LOAM–dark brown–stiff (A–6)	–5	4	1.5P	23
		2		
		3		
912.4		4	1.5P	21
		22		
		25		
	–10	27	NP	5
SAND, GRAVEL & COBBLES–brown–very dense (A–1–a)		50/8"		
			NP	4
		30		
		35		
	–15	39	NP	3
		22		
		25		
		50/7"	NP	5
		30		
		42		
	–20	40	NP	1
		40		
		35		
		36	NP	3
End of Boring @ –25.0' Hollow Stem Augers Dietrich Automatic Hammer 895.4 –25		30		
		50/4"		
			NP	5
	–30			
	–35			
	–40			
	–45			
	–50			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample V–Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR–No Recovery



SOIL BORING PLAN

SHT. SA-4

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-02-FP
STATION 45+50.00 TO 47+32.25
ILLINOIS ROUTE 176 RETAINING WALL

SOIL BORING LOGS

SCALE: N.T.S. — DRAWN BY: CPB
DATE: 04/15/11 — CHECKED BY: TCG

TENG
TENG & ASSOCIATES, INC.
ENGINEERS&ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/856-0200

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