

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15VB-1-R	COOK	243	205
STA. 4+655.229		TO STA. 4+777.600		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-12	
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+709		PROJECT: FAU 3578 (Southwest Highway) over B & O CT RR and Stony Creek	
LOCATION: Cook County, Illinois		OFFSET: 10.6m Rt		BORING RIG & METHOD: Mobile B-67 w/Hollow Stem Augers	
SURF ELEV: 180.75		ELEV.		DEPTH	
SOIL DESCRIPTION		SAMPLE FROM-TO		REC. mm	
		BLOWS/160mm		% STRAIN	
		WATER CONTENT %			
FILL: Intermixed Gr Sand A-1-a and Br Clay A-6		0.00-0.30		Auger 3	
178.84		0.30-0.78		254 11-8	
FILL: Dark Br to Br Clay A-6; Organic matter noted		1.07-1.52		127 4	
Bott./Fig. Pier 12 Elev. 178.36		1.83-2.29		78 2-2 98*	
178.81		2.59-3.05		408 1-1 192*	
Medium Stiff Br & Gr Silt A-6; Silt lenses noted		3.35-3.81		408 1-1 19 15 34	
175.81		4.11-4.57		358 1/457 10 15 51	
Br Fibrous Peat; Shells & Marl seams noted		4.88-5.33		381 2-2 267	
174.99		5.64-6.10		408 4-3 17	
Loose to Medium Dense Gr Sandy Loam A-4; Silt seams noted		6.40-6.88		279 11-9 14	
173.58		7.16-7.62		457 13-15 20	
Dense to Medium Dense Gr Silt A-4		7.92-8.38		457 8 21	
172.37		8.69-9.14		381 6 20-20 15	
Dense Gr Silt A-4		9.45-9.91		432 12 19	
171.00		10.21-10.67		381 14 6	
Hard drilling below 9.6m		10.97-11.06		51 100/78 14	
170.08					
Dense Gr Sand A-1-a; Cobbles noted					
169.45					
Extremely Dense Gr Sand A-1-a; Cobbles noted					
Refusal to drilling equipment at 11.3m					
REMARKS		* Denotes Calibrated Penetrometer Estimate			
WATER 5.9 m ELEV. 174.81 DURING DRILLING		CORE SIZE mm DATE: OCT 14 97			
WATER m ELEV. AT COMPLETION		CASING LENGTH m. DRILLER: Roessel			
WATER 9.6 m ELEV. 171.12 AFTER 24 HRS.		CASING DIAMETER mm INSPECTOR: Mauter			

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-13	
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+726		PROJECT: FAU 3578 (Southwest Highway) over B & O CT RR and Stony Creek	
LOCATION: Cook County, Illinois		OFFSET: 9.8m Lt		BORING RIG & METHOD: Mobile B-67 w/Hollow Stem Augers	
SURF ELEV: 181.66		ELEV.		DEPTH	
SOIL DESCRIPTION		SAMPLE FROM-TO		REC. mm	
		BLOWS/160mm		% STRAIN	
		WATER CONTENT %			
FILL: Black Sand A-1-b		0.00-0.30		Auger 4	
189.75		0.30-0.78		78 4-4 13	
FILL: Dark Br to Br Clay A-6; Organic matter noted		1.07-1.62		368 4-4 57 15 15	
178.74		1.83-2.29		408 1-1 19 15 18	
Bott./Fig. Pier 13 Elev. 178.56		2.59-3.05		457 1/457 10 15 25	
178.17		3.35-3.81		381 1/457 10 15 28	
Very Soft Br & Gr to Gr Silt A-6		4.11-4.67		457 1/457 19 15 30	
176.81		4.88-5.33		457 1-1 19 15 30	
Br Fibrous Peat and Marl; Shells noted		5.64-6.10		457 2-2 199	
175.14		6.40-6.88		457 5-8 22	
Medium Dense Gr Silt A-4		7.16-7.62		358 14-18 6	
174.85		7.92-8.38		381 17 22-20 7	
Dense to Very Dense Gr Sand A-1-a; Cobbles noted		8.69-9.14		358 38-38 6	
172.06		9.45-9.80		127 100/182 8	
Very hard drilling below 8.5m					
Boring terminated at 9.6m					
REMARKS		* Denotes Calibrated Penetrometer Estimate			
WATER 6.0 m ELEV. 175.69 DURING DRILLING		CORE SIZE mm DATE: OCT 15 97			
WATER m ELEV. AT COMPLETION		CASING LENGTH m. DRILLER: Roessel			
WATER 7.5 m ELEV. 174.19 AFTER 24 HRS.		CASING DIAMETER mm INSPECTOR: Mauter			

MIRZA ENGINEERING, INC. CHICAGO, ILLINOIS		BORING LOG		BORING NO: B-14	
JOB NO: 9737 CLIENT: CHRISTIAN-ROGE & ASSOCIATES, INC.		STATION: 4+751		PROJECT: FAU 3678 (Southwest Highway) over B & O CT RR and Stony Creek	
LOCATION: Cook County, Illinois		OFFSET: 10.8m Rt		BORING RIG & METHOD: Mobile B-67 w/Hollow Stem Augers	
SURF ELEV: 180.05		ELEV.		DEPTH	
SOIL DESCRIPTION		SAMPLE FROM-TO		REC. mm	
		BLOWS/160mm		% STRAIN	
		WATER CONTENT %			
FILL: Br & Gr Clay A-6; brick fragments noted		0.00-0.30		Auger 10	
178.87		0.30-0.78		457 13-13 431*	
FILL: Br & Gr Clay A-6; Organic matter noted		1.07-1.52		406 4-5 238*	
178.81		1.83-2.29		381 2-2 57 15 25	
Bott./Fig. Pier 14 Elev. 178.00		2.59-3.05		457 1-2 48 15 30	
176.81		3.35-3.81		457 2-3 10 15 111	
Very Soft Gr Organic Clay A-7-6; Peat seams noted		4.11-4.57		457 1 2-3 10 15 204	
175.69		4.88-5.33		457 2 3-6 10 15 111	
Very Soft Gr Marl; Peat seams & Shells noted		5.64-6.10		358 22-28 6	
174.58		6.40-6.88		279 18-18 7	
Very hard drilling below 5.5m		7.16-7.62		408 18-18 6	
172.43		7.92-8.38		432 58-72 5	
Dense Gr Sand A-1-a; Cobbles noted		8.69-9.14		432 58-72 5	
171.67					
Extremely Dense Gr Sand A-1-a; Cobbles noted					
Boring terminated at 8.4m					
REMARKS		* Denotes Calibrated Penetrometer Estimate			
WATER 5.5 m ELEV. 174.66 DURING DRILLING		CORE SIZE mm DATE: OCT 15 97			
WATER m ELEV. AT COMPLETION		CASING LENGTH m. DRILLER: Roessel			
WATER 4.3 m ELEV. 175.78 AFTER 24 HRS.		CASING DIAMETER mm INSPECTOR: Mauter			

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS
 SOUTHWEST HIGHWAY OVER
 B. & O.C.T. RAILROAD AND MELVINA DITCH
 F.A.U. ROUTE 3578 SEC. 15VB-1-R
 COOK COUNTY STATION 4+716.471
 STRUCTURE NO. 016-0463
 SCALE: DATE: 6/17/09 DRAWN BY: F. MUNIR
 CHECKED BY: B. SHAH
 CHRISTIAN - ROGE & ASSOC.
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

FOR INFORMATION ONLY