

**LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS**

A-1 to A-7 (and subgroups) Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification.

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

q<sub>u</sub>, kPa Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.

STRAIN, % Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).

WATER CONTENT, % Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.

Penetrometer Estimate An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device.

50 mm ST 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.

γ<sub>d</sub> Dry unit weight of soil specimen in kilograms per cubic meter.

REC. Length of sample recovered in millimeters.

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	594	1360
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 68200	

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS	
BORING LOG			
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-4	STATION: 104500
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 4.0m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 189.97	
SOIL DESCRIPTION	ELEV.	DEPTH	WATER CONTENT %
Stiff Br Loam A-4(7)	189.05	0.00-0.30	19
		0.30-0.76	21
		1.07-1.52	15
Very Stiff Br to Gr Clay Loam A-4		1.83-2.29	14
		2.59-3.05	13
		3.35-3.81	13
Loose Gr Sand A-1-b	185.64	4.11-4.57	14
		4.88-5.33	14
Very Stiff Gr to Br Loam A-4		5.64-6.10	14
		6.40-6.86	13
Dense Br Sand A-1-b	182.01	7.16-7.62	12
		7.92-8.38	12
		8.69-9.14	14
Very Stiff to Stiff Gr Loam A-4		9.45-9.91	14
		10.21-10.67	13
		10.97-11.43	11
Very Stiff to Stiff Gr Silty Clay Loam A-4	178.84	11.73-12.19	13
REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate			
WATER	4.1m ELEV. 185.85 DURING DRILLING	CORE SIZE	mm DATE: Mar 11, 00
WATER	m ELEV. AT COMPLETION	CASTING LENGTH	m DRILLER: Winslow
WATER	5.0m ELEV. 185.00 AFTER 1/2 HRS.	CASTING DIAMETER	mm INSPECTOR: Reed

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS	
BORING LOG			
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-4	STATION: 104500
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 4.0m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 189.97	
SOIL DESCRIPTION	ELEV.	DEPTH	WATER CONTENT %
Very Stiff to Stiff Gr Silty Clay Loam A-4	176.86	12.50-12.95	13
		13.26-13.72	11
		14.02-14.48	12
		14.78-15.24	14
Very Stiff to Stiff Gr Loam A-4		15.54-16.00	13
		16.31-16.76	13
		17.07-17.53	13
		17.83-18.29	13
		18.59-19.05	3
		19.35-19.81	13
		20.12-20.57	13
Very Stiff Gr Clay Loam A-4		20.88-21.34	19
		21.64-22.10	12
		22.40-22.86	12
Boring terminated at 22.9m			
REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate			
WATER	4.1m ELEV. 185.85 DURING DRILLING	CORE SIZE	mm DATE: Mar 11, 00
WATER	m ELEV. AT COMPLETION	CASTING LENGTH	m DRILLER: Winslow
WATER	5.0m ELEV. 185.00 AFTER 1/2 HRS.	CASTING DIAMETER	mm INSPECTOR: Reed

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS	
BORING LOG			
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-5	STATION: 104521
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 2.8m Lt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 188.59	
SOIL DESCRIPTION	ELEV.	DEPTH	WATER CONTENT %
FILL: Br Clay Loam A-6	187.49	0.00-0.30	13
		0.30-0.76	13
Black Silty Loam A-4; Organic matter noted	187.09	1.07-1.52	22
		1.83-2.29	13
Hard to Very Stiff Br Loam A-4		2.59-3.05	13
		3.35-3.81	17
Medium Dense Gr Sand A-1-b	184.17	4.11-4.57	15
Very Stiff Gr Clay Loam A-4	183.56	4.88-5.33	18
		5.64-6.10	7
Dense Br Sand A-1-a	182.13	6.40-6.86	11
		7.16-7.62	13
Dense Br Sand A-1-b	181.46	7.92-8.38	12
Hard Gr Loam A-4			
Boring terminated at 8.4m			
REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate			
WATER	3.8m ELEV. 184.78 DURING DRILLING	CORE SIZE	mm DATE: Mar 10, 00
WATER	m ELEV. AT COMPLETION	CASTING LENGTH	m DRILLER: Winslow
WATER	4.6m ELEV. 184.02 AFTER 1/4 HRS.	CASTING DIAMETER	mm INSPECTOR: Nelson

**STATE OF ILLINOIS**  
DEPARTMENT OF TRANSPORTATION

**BORING LOGS IX**

MSE WALL NO. 8 - RAMP A-3  
F.A.I. ROUTE 74 SECTION (72-7) R-3  
PEORIA COUNTY  
STA. 10+426.116 TO STA. 10+673.439 (RAMP A-3)  
STRUCTURE NUMBER 072-8556

PARSONS TRANSPORTATION GROUP  
CHICAGO, ILLINOIS

DRAWING NO. 18	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 18
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Time: 12:04:51 PM

Date: 11/22/2004

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