

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	589	1360
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 68200	

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_u, 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_d Dry unit weight of soil specimen in kilograms per cubic meter.

REC. Length of sample recovered in millimeters.

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA35-9	STATION: 10+567	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp A-3 SN 072-8556			
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 193.43						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
Stiff to Very Stiff Gr Loam A-4	179.56		13.26-13.72	457	5	7-9	220	15
			14.02-14.48	457	3	7-9	144	15
Stiff to Very Stiff Gr Clay Loam A-4	177.27	15	14.78-15.24	457	5	7-10	239	15
			15.54-16.00	457	4	8-11	230	15
Stiff to Very Stiff Gr Clay Loam A-4	174.99		16.31-16.76	457	5	6-8	134	15
			17.07-17.53	457	6	10-13	220	15
Stiff to Very Stiff Gr Loam A-4	173.46	20	17.83-18.29	457	7	10-13	239	15
			18.59-19.05	203	9	12-17	182	15
Stiff to Very Stiff Gr Loam A-4	170.42		19.35-19.81	457	5	10-13	201	15
			20.12-20.57	457	8	10-13	182	15
Stiff to Very Stiff Gr Loam A-4	168.89		20.88-21.34	457	7	11-14	239	15
			21.64-22.10	457	8	8-13	201	15
Hard to Very Stiff Gr Silty Clay Loam A-4; Cobbles noted	168.28	25	22.40-22.86	457	8	8-12	259	15
			23.16-23.62	457	9	15-18	508	15
Hard Gr Loam A-4			23.93-24.38	457	6	10-14	316	15
			24.69-25.15	457	12	14-20	412	15
Boring terminated at 25.2m								
REMARKS: CME Automatic Hammer Used.						*Denotes Calibrated Penetrometer Estimate		
WATER	11.0m ELEV.	182.45 DURING DRILLING	∅ CORE SIZE	mm	DATE:	Apr 10, 00		
WATER	m ELEV.	AT COMPLETION	∅ CASING LENGTH	m	DRILLER:	Dison		
WATER	10.1m ELEV.	183.37 AFTER 1/2 HRS.	∅ CASING DIAMETER	mm	INSPECTOR:	Reed		

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA35-10	STATION: 10+584	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp A-3 SN 072-8556			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 193.05						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
125mm Root Zone Material: Br Loam A-4	192.92		0.00-0.30	Auger				23
			0.30-0.76	330	3	4-4	278	12
Very Stiff to Stiff Br to Gr Clay Loam A-6	190.61		1.07-1.52	381	3	3-3	115	15
			1.83-2.29	432	4	4-5	153	15
Very Stiff Br to Br & Gr Silty Clay Loam A-4	188.32		2.59-3.05	330	3	4-7	220	15
			3.35-3.81	432	6	6-7	268	15
Medium Stiff to Stiff Br & Gr Loam A-4	186.80	5	4.11-4.57	457	4	6-8	278	15
			4.88-5.33	432	3	5-5	77	15
Hard Br & Gr Clay Loam A-6	185.28		5.64-6.10	457	2	3-7	163	13
Medium Dense Gr Sandy Loam A-2-4	183.51		6.40-6.86	457	7	10-11	412	15
			7.16-7.62	457	5	6-7		18
Hard Gr Loam A-4	181.74	10	7.92-8.38	457	7	8-18	450	15
			8.69-9.14	457	16	10-13	335	12
Dense to Medium Dense Br Sandy Loam A-2-4			9.45-9.91	457	19	21-21		8
			10.21-10.67	457	21	27-20		15
Very Stiff Br to Gr Loam A-4			10.97-11.43	457	9	11-13		14
			11.73-12.19	457	7	8-10	297	15
50mm Sand seam noted at 9.0m								
REMARKS:						*Denotes Calibrated Penetrometer Estimate		
WATER	10.8m ELEV.	182.23 DURING DRILLING	∅ CORE SIZE	mm	DATE:	Apr 6, 00		
WATER	m ELEV.	AT COMPLETION	∅ CASING LENGTH	m	DRILLER:	Fehl		
WATER	Caved at 4.3m ELEV.	188.75 AFTER 1/4 HRS.	∅ CASING DIAMETER	mm	INSPECTOR:	Shock		

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA35-10	STATION: 10+584	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp A-3 SN 072-8556			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 193.05						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
Very Stiff Br to Gr Loam A-4	175.52	15	12.50-12.95	457	6	8-11	306	15
			13.26-13.72	457	8	9-12	259	15
			14.02-14.48	457	7	7-9	306	15
			14.78-15.24	457	5	8-10	287	15
			15.54-16.00	457	5	7-12	192	15
			16.31-16.76	457	3	6-11	220	15
			17.07-17.53	457	5	9-14	278	15
Boring terminated at 17.5m								
REMARKS:						*Denotes Calibrated Penetrometer Estimate		
WATER	10.8m ELEV.	182.23 DURING DRILLING	∅ CORE SIZE	mm	DATE:	Apr 6, 00		
WATER	m ELEV.	AT COMPLETION	∅ CASING LENGTH	m	DRILLER:	Fehl		
WATER	Caved at 4.3m ELEV.	188.75 AFTER 1/4 HRS.	∅ CASING DIAMETER	mm	INSPECTOR:	Shock		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS IV

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. 13	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 13
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Time: 12:00:19 PM

Date: 11/22/2004

Filename: P:\643996\Structure\A3\072-8556\sheet\Tracings\ILD004-1A0728556.dgn