

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	622	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.
- Y_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: RWB6-4	STATION: 10+302					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp B-6 SN 072-8559	OFFSET: 2.0m Rt					
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 197.23						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
150mm Bituminous Concrete	197.00		0.00-0.30	Auger				
Hard Br Silty Clay Loam A-4	196.31		0.30-0.76	457	11-10	508	15	11
Medium Dense Br Sand A-1-b			1.07-1.52	457	14-13			9
	194.79		1.83-2.29	457	12-9			6
Hard Br Loam A-4	194.03		2.59-3.05	457	8-16	383	15	12
Very Dense Br Sand A-1-a	193.27		3.35-3.81	457	34-26			6
Loose Br Sand A-1-b	192.59		4.11-4.57	457	4-5			14
		5	4.88-5.33	457	9-12	354	15	14
Very Stiff to Hard Br Loam A-4			5.64-6.10	457	8-12	316	15	14
			6.40-6.86	457	9-13	373	15	15
	189.46		7.16-7.62	457	9-13	488	15	14
			7.92-8.38	457	10-13	354	15	13
Very Stiff Br Silty Clay Loam A-4			8.69-9.14	457	7-13	354	15	12
	186.86		9.45-9.91	457	9-10	373	15	13
Dense Br Sand A-1-a	186.41	10	10.21-10.67	457	12-23			4
Medium Dense to Dense Br Silt A-4			10.97-11.43	457	11-16			22
	184.88		11.73-12.19	457	14-18			24
REMARKS		#Denotes Calibrated Penetrometer Estimate						
WATER	11.6m ELEV. 185.65 DURING DRILLING	∅CORE SIZE	mm	DATE:	Apr 4, 00			
WATER	m ELEV. AT COMPLETION	∅CASING LENGTH	m	DRILLER:	Fehl			
WATER	Drym ELEV. AFTER 1/4 HRS.	∅CASING DIAMETER	mm	INSPECTOR:	Shook			

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB6-4	STATION: 10+302					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp B-6 SN 072-8559	OFFSET: 2.0m Rt					
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 197.23						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
Medium Dense Br Silt A-4	184.27		12.50-12.95	457	12-15			16
Boring terminated at 13.0m								
REMARKS		#Denotes Calibrated Penetrometer Estimate						
WATER	11.6m ELEV. 185.65 DURING DRILLING	∅CORE SIZE	mm	DATE:	Apr 4, 00			
WATER	m ELEV. AT COMPLETION	∅CASING LENGTH	m	DRILLER:	Fehl			
WATER	Drym ELEV. AFTER 1/4 HRS.	∅CASING DIAMETER	mm	INSPECTOR:	Shook			

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB6-5	STATION: 10+324					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp B-6 SN 072-8559	OFFSET: 2.0m Rt					
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 197.01						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
125mm Bituminous Concrete	196.97		0.00-0.30	Auger				
Very Stiff Br Loam A-4	196.09		0.30-0.76	305	5-7	335	15	13
Medium Dense Br Sand A-1-b			1.07-1.52	432	9-11			11
	194.57		1.83-2.29	457	6-13			9
Soft to Medium Stiff Br Clay A-6			2.59-3.05	457	2-2	38	15	20
	193.05		3.35-3.81	457	4-15	57	15	18
Very Stiff to Stiff Br Silty Loam A-7-6			4.11-4.57	457	7-11	354	15	25
	191.52	5	4.88-5.33	457	4-5	105	15	29
Very Soft Br Clay A-6			5.64-6.10	457	1-3	106		29
	190.45		6.40-6.86	457	4-9			6
Medium Dense Br Sand A-1-b			7.16-7.62	381	12-16			11
	189.24		7.92-8.38	457	8-11	278	15	14
Very Stiff to Hard Br Loam A-4			8.69-9.14	457	12-13	287	15	13
	186.95	10	9.45-9.91	457	8-12	383	15	13
Very Stiff Br Silty Clay Loam A-4			10.21-10.67	457	9-20	220	15	13
	186.19		10.97-11.43	406	12-14			14
Medium Dense to Dense Br Sandy Loam A-2-4			11.73-12.19	457	5-11			
REMARKS		* Water Introduced into borehole below 17.1m. #Denotes Calibrated Penetrometer Estimate						
WATER	11.6m ELEV. 185.43 DURING DRILLING	∅CORE SIZE	mm	DATE:	Apr 5, 00			
WATER	m ELEV. AT COMPLETION	∅CASING LENGTH	m	DRILLER:	Fehl			
WATER	*m ELEV. AFTER HRS.	∅CASING DIAMETER	mm	INSPECTOR:	Shook			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III

WALL NO. 10 - RAMP B-4
F.A.I. ROUTE 74 SECTION (72-7)R-3
PEORIA COUNTY
STA. 10+149.813 TO STA 10+281.377 (RAMP B-4)
STRUCTURE NUMBER 072-8559

PARSONS TRANSPORTATION GROUP
CHICAGO, ILLINOIS

DRAWING NO. 8	SCALE N.T.S.	DATE 6/25/04	SHEET NO. 8
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Date: 11/22/2004 Time: 01:50:25 PM Filename: P:\649996\str\struct\072-8559-Wall #10-sheet\Tracings\BL0003-1A0728559.dgn