

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	613	1360
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 68200

Time: 12:21:17 PM

Date: 11/22/2004

Filename: P:\643996\struc\trac\072-8558-Wall #9.sheet\Tracings\BL0001A072-8558.dgn

RSV ENGINEERING, INC.		BORING LOG		SCHAUMBURG, ILLINOIS				
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWB5-1	STATION: 10+693	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-5 SN 072-8558			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 194.83						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
90mm Root Zone Material: Br Clay Loam A-4	194.74		0.00-0.30	Auger 6				18
Stiff Br Clay Loam A-4			0.30-0.76	457	7-11	172*		18
Medium Dense Br Sand A-1-b	193.61		1.07-1.52	279	9-10			6
Very Stiff to Hard Br Loam A-4	193.15		1.83-2.29	457	14-13	297	15	13
	191.63		2.59-3.05	457	8-14	450	15	14
Very Stiff to Hard Br Clay Loam A-4	191.63		3.35-3.81	457	10-16	354	15	15
	190.10		4.11-4.57	457	9-13	402	15	12
Very Stiff to Hard Br Silty Clay Loam A-4	188.58	5	4.88-5.33	457	7-12	354	15	13
	188.58		5.64-6.10	457	9-15	469	15	12
Very Stiff to Hard Br Loam A-4	187.06		6.40-6.86	457	9-11	278	15	13
	187.06		7.16-7.62	457	9-13	383	15	13
Very Stiff Br Loam A-4	184.01	10	8.69-9.14	457	10-12	268	15	14
	184.01		9.45-9.91	457	10-14	326	15	12
Dense Br Sand A-1-b	182.64		10.21-10.67	457	9-14	316	15	13
	182.64		10.97-11.43	457	21-20			10
			11.73-12.19	457	12-18			11
Boring terminated at 12.2m								
REMARKS						#Denotes Calibrated Penetrometer Estimate		
WATER	11.0m ELEV.	183.85 DURING DRILLING	CORE SIZE	mm	DATE:	Apr 3, 00		
WATER	m ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER:	Fehl		
WATER	12.2m ELEV.	182.64 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: RWB5-2	STATION: 10+743	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-5 SN 072-8558			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 195.65						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
FILL: Br Clay Loam A-4	195.50		0.00-0.30	Auger 5				19
Medium Dense Br Silt A-4	194.73		0.30-0.76	381	10-10			16
Medium Dense to Dense Br Sand A-1-b	193.21		1.07-1.52	457	8-8			10
	193.21		1.83-2.29	381	15-15			4
Medium Dense Br Sand A-1-b	192.45		2.59-3.05	406	11-9			5
Very Stiff to Hard Br Loam A-4	190.92		3.35-3.81	457	11-15	335	15	14
	190.92		4.11-4.57	457	10-14	469	15	15
Very Stiff to Stiff Br Loam A-4	189.40	5	4.88-5.33	457	7-9	201	15	13
	189.40		5.64-6.10	457	8-12	182	15	13
Very Stiff Br Silty Clay Loam A-4	186.81		6.40-6.86	457	9-11	297	15	11
	186.81		7.16-7.62	457	12-15	306	15	12
Very Dense to Dense Br Sand A-1-b	185.74		7.92-8.38	457	4-9	220	15	14
	185.74		8.69-9.14	457	30-26			13
			9.45-9.91	432	15-19			23
Boring terminated at 9.9m								
REMARKS						#Denotes Calibrated Penetrometer Estimate		
WATER	Drym ELEV.	DURING DRILLING	CORE SIZE	mm	DATE:	Apr 3, 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: RWB5-3	STATION: 10+757	PROJECT: Interstate Route 74 Improvements - Peoria, Illinois	LOCATION: Retaining Wall Ramp B-5 SN 072-8558			
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 195.03						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
100mm Root Zone Material: Black Silty Loam A-4: Organic matter noted	194.93		0.00-0.30	Auger 4				20
Hard Br Clay Loam A-6	193.35		0.30-0.76	356	7-9	393	15	26
	193.35		1.07-1.52	457	5-7-12	431	15	20
Medium Stiff Br & Gr Clay A-6	190.30		1.83-2.29	457	3-4	57	15	31
	189.54	5	2.59-3.05	457	3-4	86	15	26
	189.54		3.35-3.81	457	5-7	86	15	24
Dense Br Sand A-1-a	188.32		4.11-4.57	457	3-3	77	15	25
	188.32		4.88-5.33	381	18-25			15
Very Dense Br Sand A-1-b	184.97	10	5.64-6.10	457	24-28			10
	184.97		6.40-6.86	457	6-12	354	15	14
Very Stiff Br Loam A-4	183.60		7.16-7.62	457	15-17	345	15	14
	183.60		7.92-8.38	457	12-15	326	15	13
			8.69-9.14	457	12-19	220	15	13
Very Dense Br Sand A-1-a			9.45-9.91	457	17-24	326	15	14
			10.21-10.67	356	38-31			11
			10.97-11.43	406	24-27			11
Boring terminated at 11.4m								
REMARKS						#Denotes Calibrated Penetrometer Estimate		
WATER	4.9m ELEV.	190.15 DURING DRILLING	CORE SIZE	mm	DATE:	Apr 3, 00		
WATER	m ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER:	Fehl		
WATER	4.4m ELEV.	190.67 AFTER 1/4 HRS.	CASING DIAMETER	mm	INSPECTOR:	Shook		

LEGEND

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
BORING LOGS I			
WALL NO. 9 - RAMP B-5 F.A.I ROUTE 74 SECTION (72-7)R-3 PEORIA COUNTY STATION 10+697.234 TO 10+800.000 (RAMP B-5) STRUCTURE NUMBER 072-8558			
PARSONS TRANSPORTATION GROUP CHICAGO, ILLINOIS			
DRAWING NO. 6	SCALE N.T.S.	DATE 6/25/04	SHEET NO. 6