

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

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.

γ_d 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	576	1360
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT	

CONTRACT NO. 68200

SOIL DESCRIPTION		ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q_u kPa	STRAIN %	WATER CONTENT %
Very Stiff Gr Clay Loam A-4				12.50-12.95	457	4	287	15	13
				13.26-13.72	457	4	287	15	13
				14.02-14.48	457	7-11	287	15	14
Boring terminated at 15.2m		170.62	15	14.78-15.24	457	7-10	287	15	14

REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate

WATER: 4.0m ELEV. 181.90 DURING DRILLING CORE SIZE mm DATE: Mar 10, 00
 WATER: m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Winslow
 WATER: 3.0m ELEV. 182.87 AFTER 24 HRS. CASING DIAMETER mm INSPECTOR: Nelson

SOIL DESCRIPTION		ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q_u kPa	STRAIN %	WATER CONTENT %
75mm Root Zone Material: Black Silty Loam A-4: Organic matter noted		192.96		0.00-0.30	Auger				17
				0.30-0.76	356	9-12	43#*		10
Hard Br Silty Clay Loam A-4				1.07-1.52	356	7-11	43#*		10
				1.83-2.29	381	7	440	15	10
Medium Dense Gr Silt A-4		190.52		2.59-3.05	381	7-10			13
		189.31		3.35-3.81	406	6			20
Very Stiff to Stiff Br to Gr Clay Loam A-6			5	4.11-4.57	457	7-10	335#*		13
				4.88-5.33	381	5	326	15	13
				5.64-6.10	381	3	14#*		20
		186.26		6.40-6.86	76	4	96#*		23
Very Stiff to Hard Gr Loam A-4				7.16-7.62	457	7	316	15	12
		184.34		7.92-8.38	457	7	432	15	13
				8.69-9.14	457	14			10
				9.45-9.91	457	15			9
Very Dense to Dense Gr to Br Sand A-1-b			10	10.21-10.67	432	12			17
				10.97-11.43	432	11			15
Boring terminated at 12.2m		181.08		11.73-12.19	457	16-25			12

REMARKS: *Denotes Calibrated Penetrometer Estimate

WATER: 10.2m ELEV. 183.06 DURING DRILLING CORE SIZE mm DATE: Apr 5, 00
 WATER: m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Fohl
 WATER: 10.7m ELEV. 182.60 AFTER 1/4 HRS. CASING DIAMETER mm INSPECTOR: Nelson

SOIL DESCRIPTION		ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q_u kPa	STRAIN %	WATER CONTENT %
Black Silty Loam A-4: Organic matter noted		194.85		0.00-0.30	Auger				
				0.30-0.76	356	6-9	144		20
Stiff to Very Stiff Br Silty Clay Loam A-4(8)				1.07-1.52	457	8-10	373	15	13
		193.08		1.83-2.29	457	5	431	15	13
Hard to Very Stiff Br Clay Loam A-6				2.59-3.05	457	4	632	15	18
				3.35-3.81	457	2	517	15	15
			5	4.11-4.57	457	3	220	15	16
		189.73		4.88-5.33	457	3	297	15	16
Hard to Very Stiff Br Loam A-4				5.64-6.10	356	3	412	15	13
				6.40-6.86	457	3	239	15	14
		187.29		7.16-7.62	406	3	192	15	20
				7.92-8.38	457	3	488	15	14
Hard Br to Gr Silty Clay Loam A-4				8.69-9.14	457	5	393	15	14
				9.45-9.91	457	3	297	15	12
			10	10.21-10.67	457	5	364	15	12
				10.97-11.43	457	3	335	15	12
Dense Br Sand A-1-b		183.45		11.73-12.19	406	20			8

REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate

WATER: Dry m ELEV. DURING DRILLING CORE SIZE mm DATE: Mar 1, 00
 WATER: m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Winslow
 WATER: Dry m ELEV. AFTER 1/4 HRS. CASING DIAMETER mm INSPECTOR: Nelson

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS XI

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. 20	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 20
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Time: 12:02:25 PM

Date: 11/22/2004

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