SECTION	COUNTY	TOTAL	SHEET NO.
	TAZEWELL	1366	1250
	TO STA.		
	SECTION *	* TAZEWELL	section county sheets * TAZEWELL 1366

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | (90-II)R-2;90(13, 14, 14-I)R-I | CONTRACT | NO. 68201

LEGEND - IDOT TEST BORING LOGS

BLOWS/150mm

Textural classification of soil in accordance with IDOT Triangular Chart.

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

 \mathcal{Q}_u . kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Molst, X
Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

RSV ENGINEERING, INC.

I W		epart) ertati	men- on	ŀ	S	OIL BORING LOC	ò		1	
ROUTE	FA]-74	DESCRI	PTION			High Mast Light Tower	LOGG	ED BY		AR
SECTION 72-6.	7.8.9-1.90-11.90) <u>-12,13,1</u> 4	LOCATI	ON _	· SEC.	. TWP RNG.				
COUNTY Peori	a & Tazeweli DF	ILLING ME	THOD			HSA HAMMER T	YPE _	Al	UTO	
Station BORING NO Station	HMSB-103 154+150 79.86m LT EB BI e Elev. 151.94	— P	0 ₩ \$ (/150	U C S Ou (kPa)	I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion * See EUB After 24 Hrs ** See EUB	m) B L O O F W H S (/150		M O I S T
no sample take		-	1			Gray & Brown CLAY LOAM TILL (continued)		1	79 B	28.9
Brown CLAY LOA	M w∕ gravel	151-49	3 5 8	251 8	12.5	Brown Medium SAND & GRAVEL	145.39	3 4 1		20.9
Brown Medium S	AND w/some	150.72	٠,				144.63			
gravel		<u>-1.</u> -	5 11 12		10.8	Brown & Gray SANDY CLAY LOAM Brown & Gray Coarse SAND & GRAVEL	144.25	6	99 B	16.6
		149,20	18 12		9.3		_	5 1		15.0
Gray & Brown C	LAY LOAM TILL		2 0 5 5	316 S	13.2	Gray SANDY CLAY LOAM Brown Medium SAND & GRAYEL	143.10 142.88		96 P	20.2
		_	2 3 4	197 B	13.9	Gray & Brown SANDY CLAY LOAM	142.34	3 1 4	96 P 99	17.5 26.4
			1 5 2 4	217 B	20.3	##20 @ comp. =none Hole coll. @ 6.16m ###20 @ 24 hrs =5.24m Hole coll. @ 5.88m End of Boring	-).5	<u>B</u>	
			H 1 3	83 B	23.0					

BORING RIG & METHOD: CME-75 w/Hollow Stem Auger	rs				SURF E	LEV: 1	48.75	
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE	REC.	BLOWS/	qu	STRAIN	VATE CONTE
0012 0200111101			FROM - TO	m	150mm	kPa	r	
FILL: Br & Gr Sand A-1-b			0.00-0.30		Auger 4			10
	148-05		0.30-0.76	457	6-7	1		14
Br & Gr SANDSTONE (weakly cemented)	147.07	_	1.07-1.52	457	26 22-21			7
Intermixed Br & Gr Sandstone,		_	1.83-2.29	356	6 3-4			11
Shale and Coal (Possible Partially Filled Mine)	₩	_	2.59-3.05	457	5 5-7			16
	145.06	_	3.35-3.81	381	4 4-13 35-100/			10
			4.11-4.36	229	75mm			10
Gr SHALE (very thinly foliated), becoming		5	4.88-5.03	152	100/ 150mm			9
			5.64-5.73	76	100/ 75mm			7
Clayey; Coal fragments noted			6.40-6.68	279	87-100 125mm			11
		_	7.16-7.41	229	34-100 75mm	1		10
Boring terminated at 8.5m	140-21		8.08-8.53	457	15 33-67			15
REMARKS						*Denotes	Callibra meter Es	
WATER 3.4m ELEV. 145.40 DURING DRILL WATER 70 FLEV AT COMPLETION	ING ▼	ORE SIZE		mm	DATE:		un 21.	
WATER IN ELEV. AT COMPLETION		ASING LE		m	DRILLE	R: I	Fehl	

AFTER 1/4 HRS.

■ CASING DIAMETER

BORING LOG

CLIENT: ILLINOIS DEPARTMENT OF TRANSPURTATION

PROJECT: Interstate Route 74 improvements - Peoria, Illinois

LOCATION: Retaining Wall Ramp J-3 SN 090-8513

·	BORING					UMBURG		.1N01
08 NO: 98600 CLIENT: ILLINOIS DEPARTMENT ROJECT: Interstate Route 74 Improvements - Pecri DCATION: Retaining Wail Romp J-3 SN 090-8513 DRING RIG & METHOD: CME-75 W/Hollow Stem Auger	a, Illino				BORING STATION OFFSET: SURF EL	: 11 5	WJ3-4 0+298 .Om L† 48.66	
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TG	REC.	BLOWS/ 159mm	¢ _U kPa	STRAIN	CONTE
00mm Root Zone Material: Black Silty oam A-4: Drganic matter noted edium Dense Br Sandy Loam A-2-4	148.57		0.00-0.30	330	Auger 4 9-13	N. U		14
r to Br SANDSTONE (weakly cemented)	197.79	-	1.07-1.52	457	33 78-82			10
,	146.07	-	1.83-2.29	356	56 15-12			10
oft Gr Clay A-7-6 intermixed with andstone and Shale fragments (possible artially filled void)	145.61	-	2.59-3.05 3.35-3.41	457 51	1 2-8 100/ 50mm	38	15	28 8
			4.11-4.27	152	100/ 150mm			1
		5	4.88-4.94	51	100/ 50mm			7
SHALE (moderately to slightly lithified pal pockets noted	;	-	5.64-5.88	229	77-100/ 75mm	871	10	1.
			6.40-6.71	305	51-100/ 150mm			12
			7.16-7.50	406	71-46 54/100			17
Boring terminated at 8.1m	140,58	_		l				
MARKS Straight gugered from 7.5m to 8.1m to che								

AFTER 1/4 HRS.

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

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

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (8-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
88S, from 137 (Rev. 8-99)

A-1 to A-7 (and subgroups) Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification. An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device. BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification. 50 mm ST conducted in accordance with AASHTO T 206 standard specification. Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification. q_a , kPaDry unit weight of soil specimen in kilograms per cubic meter. Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification). STRAIN. % REC. Length of sample recovered in millimeters.

WATER

Drym ELEV.

LIGHTING SHEET 40 OF 41

mm INSPECTOR: Reed

REVISIONS DATE ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHT TOWER FOUNDATION SOIL BORINGS DRAWN BY CDF DATE: 12/20/04 CHECKED BY W.17

▼CASING DIAMETER



mm INSPECTOR: Reed

SCHAUMBURG, ILLINOIS

6.3m Lt

BORING NO: RWJ3-3

STATION: 10+269

OFFSET:

alfred benesch & company CONSULTING ENGINEERS 205 NORTH MICHIGAN AVENUE. CHICAGO, ILLINOIS 60601

WATER

Drym ELEV.

WATER CONTENT, %