F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-7)R-3	PEORIA	1360	1246
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 68200

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam — *Textural classification of soil in accordance with IDOT Triangular Chart.*

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 in kilopascals determined in accordance with AASHTO T 208 standard specification.*

Moist. % — *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.*

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 9/29/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JAR,JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-130
Station 104567
Offset 16.09m Lt. B-1 BL
Ground Surface Elev. 191.99 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter none m
Upon Completion none m
After 24 Hrs. not taken m

Description	Elev. (m)	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken					
	191.54				
Brown & Gray CLAY LOAM			3		
			6	439	13.5
			7	B	
			3		
		-1.5	4	460	12.2
			6	B	
	190.01				
Brown Medium-Coarse SAND			4		
			16		5.7
			21		
			6		
		-3.0	16		4.8
			17		
			4		
			12		9.4
			10		
	187.73				
Brown SANDY CLAY LOAM			2		
		-4.5	2		10.3
	187.42				
Brown CLAY LOAM TILL			4	192	20.9
				P	
			2		
			5	230	15
			6	B	
		-6.0	2		
Brown CLAY LOAM TILL (continued)			4	292	15.6
			7	S	
			3		
			6	316	14.6
			8	S	
		-7.5	3		
			4	355	14.9
			8	S	
			4		
			5	376	14.7
			8	B	
	183.15				
Brown Fine-Coe. SAND		-9.0	2		
			8		4.2
			10		
			4		
			8		5.2
			10		
	181.94				
* 24 hr H20 not taken; hole filled upon completion					
End of Boring		-10.5			
		-12.0			

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

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 9/29/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JAR,JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-131
Station 104698.4
Offset 2.01m Lt. B-4 BL
Ground Surface Elev. 189.86 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 180.3 m ▼
Upon Completion none m
After 24 Hrs. not taken m

Description	Elev. (m)	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken					
	189.56				
Brown CLAY LOAM			4		
			7	431	11.4
			6	P	
	188.79				
Brown SILTY CLAY LOAM			2		
			5	355	12.6
		-1.5	6	S	
	188.03				
Brown-Gray CLAY LOAM			1		
			3	237	20.3
			3	S	
	187.27				
Brown-Gray SILTY CLAY LOAM			2		
			3	292	15.0
		-3.0	6	B	
	186.51				
Brown Med. Coarse SAND			2		7.3
	186.20		4		
Gray CLAY LOAM			3	257	24.3
				B	
	185.75				
Brown Coarse SAND & GRAVEL			5		
			6		8.0
		-4.5	6		
	184.98				
Brown SILTY CLAY LOAM			2		
			6	137	22.6
			6	B	
			11		
		-6.0	5		3.5
Brown SILTY CLAY LOAM (continued)			3		
			3		
			5	144	20.4
			6	P	
	182.70				
Gray SANDY CLAY LOAM			3		
			4	173	18.8
		-7.5	6	S	
	181.94				
Brown & Gray Coarse SAND & GRAVEL			9		
			11		5.3
			13		
			10		
			13		5.8
		-9.0	12		
			8		
			9		12.5
			9		
			4		
			8		14.3
		-10.5	10		
			5		
			10		17.9
			16		
			6		
		-12.0	10		19.5

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

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

Date 9/29/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JAR,JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. HMSB-131
Station 104698.4
Offset 2.01m Lt. B-4 BL
Ground Surface Elev. 189.86 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 180.3 m ▼
Upon Completion none m
After 24 Hrs. not taken m

Description	Elev. (m)	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
			10		
	177.67				
* hole collapsed upon completion @ 8.3m					
* 24 hr H20 not taken; hole filled upon completion					
End of Boring		-13.5			
		-15.0			
		-16.5			
		-18.0			

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

LIGHTING SHEET 62 OF 64

REVISIONS	
NAME	DATE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DRAWN BY CDF
DATE: 11/12/04 CHECKED BY WJZ

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