F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-6	LAKE	149	92
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Patrick Engineering, Inc.
STRUCTURE BORING LOG

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ROUTE FAP 337 DESCRIPTION Rte. 22 Box Culvert at Indian Creek Tributary
SECT. 20R-3 STRUCT. NO. DRILLED BY PDI-PJC 9171 A0-17
COUNTY Lake LOCATION Lincolnshire, IL S. 15 , TWP. 43N , RNG. 11E

Boring No. B-4-01
Station 104 + 959.93
Offset 23.34m Rt
Surface Elev. 199.66 m

Surface Water Elev.
Groundwater Elev.: when drilling 194.2; at Completion 194.5; after NA Hrs.

Description	Elev.	Depth	BLOWS	Qu kPa	W %
Black and dark brown, silty clay fill, trace organics, moist	199.66		A	--	22
Brown silty clay fill, stiff to very stiff, moist			3 4 5	--	13
		-1.5	2 5 5	192 P	18
Gray silty clay fill, soft, moist	196.66		3 3 3	--	14
Brown coarse to fine sand, loose, moist	196.96	-3.0	WOH WOH WOH	--	15
Gray clayey silt, medium dense, moist	196.27		WOH 1 4	NP	18
		-4.5	5 7 11	NP	16
Gray fine sand, medium dense to dense, saturated	193.92		8 18 12	NP	13 19
		-6.0	9 10 10	NP	23
		-7.5	11 20 26	NP	23
			6 8 5	NP	1

Description	Elev.	Depth	BLOWS	Qu kPa	W %
Gray clayey silt, loose, saturated	191.31				
Gray silty clay, medium stiff to stiff, moist	190.83		3 4 4	NP	17 0.5 21
		-9.0	2 3 4	92 B	22
Grades to hard		-10.5	3 4 5	101 B	12
		-12.0	11 14 17	623 B	15
End of Boring at 12.2m.	188.66				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

Patrick Engineering, Inc.
STRUCTURE BORING LOG

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ROUTE FAP 337 DESCRIPTION Rte. 22 Box Culvert at Indian Creek Tributary
SECT. 20R-3 STRUCT. NO. DRILLED BY PDI-PJC 9171 A0-17
COUNTY Lake LOCATION Lincolnshire, IL S. 15 , TWP. 43N , RNG. 11E

Boring No. B-5-01
Station 104 + 959.50
Offset 0.54m Lt
Surface Elev. 199.27 m

Surface Water Elev.
Groundwater Elev.: when drilling 194.5; at Completion 195.0; after NA Hrs.

Description	Elev.	Depth	BLOWS	Qu kPa	W %
0.3m Bituminous concrete					
Gray and brown silty clay fill, moist	199.67		P U S H	NP	15
Brown coarse to fine sand, fill, dense, moist	196.46		11 25 21	NP	4
		-1.5	9 8 1	NP	
No recovery	196.90				
Gray clayey silt, medium dense to dense, moist to saturated			8 4 5	NP	
No recovery		-3.0			
			5 5 3	NP	14
		-4.5	7 16 13	NP	12
			10 17 23	NP	13
			14 19 19	NP	15
Gray fine sand, medium dense, saturated	193.27	-6.0			
			4 9 16	NP	21
		-7.5	3 7 10	NP	19

Description	Elev.	Depth	BLOWS	Qu kPa	W %
			2 4 5	NP	15 25
Gray silty clay, medium stiff, moist	191.17				
		-9.0	1 2 3	61 B	25
		-10.5	1 5 7	61 B	15
Gray silty clay, very stiff to hard, moist	188.77				
		-12.0	9 13 33	358 B	18
		-13.5	21 24 39	1,285 B	11
End of Boring at 13.7m.	185.77				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

Patrick Engineering, Inc.
STRUCTURE BORING LOG

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ROUTE FAP 337 DESCRIPTION Rte. 22 Box Culvert at Indian Creek Tributary
SECT. 20R-3 STRUCT. NO. 049-0153 DRILLED BY PDI-PJC 9171 A0-17
COUNTY Lake LOCATION Lincolnshire, IL S. 15 , TWP. 43N , RNG. 11E

Boring No. B-7-01
Station 104 + 923.52
Offset 15.17m Lt
Surface Elev. 199.45 m

Surface Water Elev.
Groundwater Elev.: when drilling; at Completion; after Hrs.

Description	Elev.	Depth	BLOWS	Qu kPa	W %
12" Black, organic silty clay	199.15		A	--	24
Brown and gray silty clay, soft, moist			1 1 3		20
Gray fine sand, loose, moist	198.55		3 4 4	NP	16
		-1.5			
			3 2 2	NP	18
Brown and black coarse to fine sand, loose, saturated	197.05		5 2 3	NP	11
		-3.0			
			2 3 3	NP	9
			WOH WOH 1	NP	18
Gray, clayey silt, medium dense, moist	194.80	-4.5			
			4 7 7	NP	15
Gray medium to fine sand, medium dense, saturated	194.05		7 5 10	NP	20
		-6.0			
			7 9 10	NP	19
		-7.5	3 3 3	NP	19

Description	Elev.	Depth	BLOWS	Qu kPa	W %
Gray clayey silt with interbedded layers of silty clay, loose, saturated	191.80				
			3 4 3	NP	18
		-9.0	1 1 1	NP	20
Gray silty clay, stiff to very stiff, moist to wet	189.97				
		-10.5	2 3 5	81 B	28
		-12.0	6 10 10	265 B	1
Gray silty clay, hard, moist	187.45				
		-13.5	13 15 20	750 B	12
		-15.0	5 36 50	364 B	12.2
Gray fine sand, very	184.63				
	184.48	-15.2			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

Patrick Engineering, Inc.
STRUCTURE BORING LOG

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STRUCTURE NO. 049-0153
ROUTE FAP 337
SECTION 20R-3
COUNTY Lake

STRUCTURE NO. 049-0153
ROUTE FAP 337
SECTION 20R-3
COUNTY Lake

Boring No. B-7-01
Station 104 + 923.52
Offset 15.17m Lt
Elevation 184.45 m

Elevation 176.95 m

Description	Elev.	Depth	BLOWS	Qu kPa	W %
dense					13.4
End of Boring at 15.2m.					
		-16.0			
		-17.5			
		-19.0			
		-20.5			
		-22.0			
		-23.5			
		-24.0			
		-25.5			
		-27.0			
		-28.5			
		-30.0			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
ILLINOIS ROUTE 22 OVER
INDIAN CREEK TRIBUTARY

FAP 337 SECTION 20R-6
STRUCTURE NUMBER 049-0233
LAKE COUNTY STATION 104+951.34

SCALE: NONE DRAWN BY: M. BELTON
DATE: 1/28/2009 CHECKED BY: G. HATLESTAD

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

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