PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN
CHECKED
R.W. OF WAY CHECKED
CAD/FILE NAME

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN
CHECKED
R.W. NOTED
STRUCTURE NO.
QUANTITIES CHKD

DATE
BY

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 1 Station 57+63 Offset 14.7 ft RT Ground Surface Elev. 804.60 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter ____ Upon Completion N/E ft After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 4" Asphalt 803.70				
Approx. 6" Aggregate Base 803.20				
CLAY, brown and gray, stiff to hard	10			
	6	1.3	21	
	3	a		
	6			
	8	1.5	22	
	4	B		
	4			
	7	3.3	20	
End of Boring 794.60	8	S		

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, form 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 2 Station 55+75 Offset 10.6 ft LT Ground Surface Elev. 799.06 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter N/E ft Upon Completion N/E ft After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 6½" Asphalt 798.90				
Approx. 8" Aggregate Base 797.96				
CLAY, slow organics, dark brown, medium stiff to stiff				
		1.0	25	
		p		
	4			
794.89	2	2.1	35	
CLAY, brown, very stiff	5	S		
792.69				
CLAY, dark gray and gray, medium soft to stiff	2			
	3	0.9	28	
silty clay seams from 6' to 8'	4	B		
	4			
	3	1.0	28	
End of Boring 788.66	4	B		

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, form 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 5 Station 53+63 Offset 10.0 ft RT Ground Surface Elev. 799.90 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter N/E ft Upon Completion N/E ft After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 11½" Asphalt 799.00				
Approx. 5" Aggregate Base 798.20				
FILL: SAND, loose crushed stone aggregate brown 797.00	12			
	31		7	
	9			
	6			
CLAY LOAM, brown, very stiff	12	2.5	18	
	15	B		
	4			
CLAY, brown and gray, stiff to very stiff 787.00	7	1.7	23	
	8	B		
	9			
diatomite noted with gravel from 8.5' to 9.2'	10	1.0	23	
	7	P		
End of Boring 783.90	12			

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)

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Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 4 Station 78+65 Offset 5.4 ft LT Ground Surface Elev. 794.50 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 790.5 ft ▼ Upon Completion 788.0 ft ▽ After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 6½" Asphalt 794.00				
Approx. 5½" Aggregate Base 793.58	8			
FILL: CLAY LOAM, loose gravel gray and dark brown	6		6	
	6			
792.00	3			
CLAY LOAM, brown and gray, very stiff	4	3.1	16	
	7	S		
	13			
occasional sand seams	18		18	
	23			
End of Boring 784.00	10			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 6 Station 76+65 Offset 5.4 ft RT Ground Surface Elev. 795.50 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter N/E ft Upon Completion N/E ft After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 6½" Asphalt 795.00				
Approx. 5½" Aggregate Base 794.58	8			
FILL: CLAY LOAM, loose gravel gray and dark brown	6		6	
	6			
792.00	3			
CLAY LOAM, brown and gray, very stiff	4	3.5	16	
	7	S		
	13			
occasional sand seams	18		18	
	23			
End of Boring 784.00	10			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 7 Station 78+65 Offset 13.6 ft RT Ground Surface Elev. 795.00 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 792.0 ft ▼ Upon Completion 787.0 ft ▽ After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 6" Asphalt 794.50				
Approx. 10" Aggregate Base 793.70	7			
FILL: CLAY LOAM, with gravel brown 792.90	6		11	
	10			
CLAY, brown and gray, stiff to very stiff	8			
	6	0.4	18	
	8	B		
	6			
	7			
	8	2.2	18	
End of Boring 785.00	8	B		

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, form 137 (Rev. 8-99)

Illinois Department of Transportation

SOIL BORING LOG

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Date 6/28/12

ROUTE FAU 1100 DESCRIPTION Hassell Road from Pembroke Avenue to Fairway Court LOGGED BY PJT

SECTION 11-00087-00-FP LOCATION SEC. 5, TWP. 41N, RNG. 10E, 3rd PM. Latitude , Longitude

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. ____ Station ____

BORING NO. 8 Station 80+50 Offset 21.4 ft LT Ground Surface Elev. 795.50 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter N/E ft Upon Completion N/E ft After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	
Approx. 6½" Asphalt 795.00				
Approx. 6" Aggregate Base 794.50	12			
FILL: SANDY LOAM, brown gravel gray organics dark brown 792.00	8		6	
	5			
	5			
FILL: SANDY LOAM, brown gravel brown	15			
	20		9	
	18			
789.00	4			
SILTY CLAY, brown and gray, very stiff	6	2.5	19	
	4	B		
787.00	7			
CLAY, trace gravel gray, very stiff	13			
	18	3.4	13	
782.00	16	S		
End of Boring				

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, form 137 (Rev. 8-99)

FILE NAME = Boring Logs.dwg		DESIGNED –	REVISED –
		DRAWN –	REVISED –
		CHECKED –	REVISED –
		DATE –	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Hassell Road STP Project
Roadway Soil Boring Logs

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1100	11-00087-00-FP	Cook	164	122
		CONTRACT NO. 63770		
	ILLINOIS FED. AID PROJECT CMM 9003(757)			