F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10K-1,60-10HB	MADISON	420	282
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 76709

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 4/10/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #1 NE Ramp
Station 1352+55 (I-55/70)
Offset 27.00ft LT Ed. Pav. (I-55/70)
Ground Surface Elev. 561.0 ft

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

Groundwater Elev.:
First Encounter 540.0 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty LOAM		2, 3, 3	NC	14
557.0				
Gray Silty LOAM	-5	4, 4, 4	1.5 S/15	26
		2, 1, 2	0.6 S/20	32
	-10	0, 2, 1	0.6 S/20	31
549.0				
Brown Silty Clay LOAM		2, 2, 2	1.1 S/20	34
	-15	2, 3, 3	1.3 S/20	30
		2, 1, 23	0.8 S/20	30
	-20	0		
Brown Silty Clay LOAM (continued)		3, 3, 4	1.4 S/20	21
538.5				
Gray Loamy SAND See Gradation @ 25.5 ft		0, 3, 3	NC	23
	-25	0, 2, 1	NC	24
534.0				
Gray Silty Clay LOAM		5, 7, 11	2.3 S/20	17
	-30	6, 11, 15	4.1 S/15	13
	-35	6, 16, 33	2.6 S/10	17
	-40	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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/10/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #1 NE Ramp
Station 1352+55 (I-55/70)
Offset 27.00ft LT Ed. Pav. (I-55/70)
Ground Surface Elev. 561.0 ft

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

Groundwater Elev.:
First Encounter 540.0 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty Clay LOAM (continued)		8, 10, 14	2.2 S/20	22
	-50	6, 14, 19	3.1 S/15	16
	-55	7, 13, 18	3.1 S/15	16
	-60	4		
Gray Silty Clay LOAM (continued)		8, 11, 11	3.4 S/15	19
500.0				
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, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 4/15/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #2 NW Ramp
Station 1352+55 (I-55/70)
Offset 63.00ft RT Ed. Pav. (I-55/70)
Ground Surface Elev. 560.5 ft

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

Groundwater Elev.:
First Encounter 534.5 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty Clay LOAM		2, 3, 3	0.8 S/20	28
	-5	2, 3, 3	1.8 S/20	27
		0, 2, 3	1.2 S/20	33
551.0	-10	0, 2, 2	0.8 S/20	34
Brown Silty LOAM		0, 2, 3	1.2 S/10	58
	-15	0, 2, 2	0.9 S/20	31
543.5		0		
Brown Silty CLAY		3, 4	1.5 S/20	29
	-20	2		
Brown Silty CLAY (continued)		2, 3, 3	0.8 S/20	31
		2, 3, 3	1.5 S/20	30
	-25	0, 3, 3	1.1 S/20	26
		3, 6, 7	2.3 S/20	14
	-30	5, 7, 9	2.6 S/20	14
	-35	12, 24, 20	4.0 S/5	18
	-40	4		

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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/15/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #2 NW Ramp
Station 1352+55 (I-55/70)
Offset 63.00ft RT Ed. Pav. (I-55/70)
Ground Surface Elev. 560.5 ft

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

Groundwater Elev.:
First Encounter 534.5 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY (continued)		2, 3, 3	0.8 S/20	31
		2, 2, 3	1.5 S/20	30
	-45	0, 3, 3	1.1 S/20	26
		3, 6, 7	2.3 S/20	14
	-50	5, 7, 9	2.6 S/20	14
	-55	12, 24, 20	4.0 S/5	18
	-60	4		

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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/15/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #2 NW Ramp
Station 1352+55 (I-55/70)
Offset 63.00ft RT Ed. Pav. (I-55/70)
Ground Surface Elev. 560.5 ft

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

Groundwater Elev.:
First Encounter 534.5 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY (continued)		8, 11, 11	3.8 S/10	20
	-45	5, 9, 14	3.8 S/15	19
	-50	6, 12, 16	3.8 S/20	19
509.5				
End of Boring				
	-55			
	-60			

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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 4/23/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #3 NW Ramp
Station 1352+36 (I-55/70)
Offset 35.00ft RT Ed. Pav. (I-55/70)
Ground Surface Elev. 561.5 ft

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

Groundwater Elev.:
First Encounter 553.0 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty LOAM		3, 3, 5	2.2 S/20	26
	-5	2, 2, 2	0.6 S/20	33
		2, 3, 4	2.4 S/20	28
	-10	2, 2, 3	1.5 S/20	30
549.5				
Brown Silty Clay LOAM		2, 3, 3	1.0 B/20	32
	-15	3, 3, 5	1.4 S/10	46
		0, 3, 3	1.3 S/20	29
	-20	0		
Brown Silty Clay LOAM (continued)		2, 3, 3	1.3 S/20	27
		3, 3, 4	1.1 B/20	28
	-25	3, 5, 6	2.0 S/20	24
		3, 3, 4	1.0 B/20	22
	-30	4, 4, 6	2.0 S/20	15
	-35	7, 14, 28	4.4 S/10	15
	-40	4		

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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 2 of 2 — Date 4/23/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #3 NW Ramp
Station 1352+36 (I-55/70)
Offset 35.00ft RT Ed. Pav. (I-55/70)
Ground Surface Elev. 561.5 ft

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

Groundwater Elev.:
First Encounter 553.0 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty Clay LOAM (continued)		8, 10, 10	3.4 S/20	21
	-45	5, 8, 11	3.1 S/20	21
510.5				
End of Boring				
	-50			

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 — SOIL BORING LOG

Division of Highways, Illinois Department of Transportation

Page 1 of 2 — Date 6/9/03

ROUTE FAP 586 DESCRIPTION IL 162 and I-55/70 Interchange Ramp Retaining Walls in Troy LOGGED BY Mark Schreader

SECTION 60R-2, 37R-1 LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ____ Station ____

BORING NO. SB #4 SE Ramp
Station 1353+45 (I-55/70)
Offset 68.00ft LT Ed. Pav. (I-55/70)
Ground Surface Elev. 560.5 ft

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

Groundwater Elev.:
First Encounter 549.5 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY		3, 4, 4	1.9 S/5	25
	-5	2, 3, 5	2.2 S/20	26
		2, 2, 2	0.9 S/20	27
	-10	2, 3, 3	0.9 S/20	29
		2, 3, 4	2.0 S/20	25
	-15	0, 3, 3	1.2 S/20	26
		3, 3, 4	1.3 S/20	25
541.0	-20	3		
Brown Sandy LOAM				
Brown Sandy LOAM (continued)		4, 5	2.2 S/20	24
538.5				
Brown Loamy SAND		2, 3	NC	23
	-25	0, 2, 2	NC	26
533.5				
Brown Silty CLAY		10, 13	2.6 S/20	14
	-30	8, 13	4.8 S/5	14
	-35	3, 5, 4	2.3 S/20	22
	-40	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)

SHT. S-64 OF S-68

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 162 OVER I-55/70 IN TROY
F.A.I ROUTE 70 SECTION 60-10K-1, 60-10HB
MADISON COUNTY STATION 499+48.35
STRUCTURE NO. 060-0338

BORING LOGS

DATE: 03/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN