F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10K-1,60-10HB	MADISON	420	285
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 4/24/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

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

COUNTY Madison DRILLING METHOD Drill Rig HAMMER TYPE 140#

STRUCT. NO. ____ Station ____

BORING NO. 11 NE Corner Cone Station 19+09 Offset 94.00ft RT Ground Surface Elev. 565.10 ft

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY (fill)			
	2		
562.1	5	2.4	25
Gray Silty Clay LOAM	3	S/10	
		1.5	28
-5	3	S/15	
	2	1.2	
	3	S/15	28
	2		
556.6	4	2.8	28
	5	S/15	
Dark Brown Robine SILT			
Burn Results: 8.0% Organics			45
-15	2		
Burn Results: 6.5% Organics	4	1.5	
	5	S/10	37
553.6			
Gray Silty CLAY with some Organics	0		
	0	0.7	
551.1	0	S/10	33
Dark Brown Robine SILT			29
-18	0		
Burn Results: 7.4% Organics	2	1.1	
549.1	3	S/10	49
Gray Silty CLAY			
	0		
	2	1.0	
-20	3	S/10	36

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY *(continued)*			
543.6	0	0.8	
	3	S/10	24
Gray Clay LOAM			
	3		
	4	1.2	
541.1	5	S/5	26
Gray Clay LOAM			
-25	0		
	0	0.4	
	0	S/10	28
	8		
	14	4.5	
536.6	25	S/15	12
Brown Loamy SAND with some Gravel			
-30	9		
See Gradation #11, Depth: 30.5'	10	NC	
	14		
533.1			
Brown & Gray Clay LOAM			
-35	10		
	15	4.3	
	25	S/15	11
-40			

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 4/24/01

ROUTE FAP 586 DESCRIPTION IL 162 over FAI 55/70 @ Troy LOGGED BY Mark Denton

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

COUNTY Madison DRILLING METHOD Drill Rig HAMMER TYPE 140#

STRUCT. NO. ____ Station ____

BORING NO. 11 NE Corner Cone Station 19+06 Offset 94.00ft RT Ground Surface Elev. 565.10 ft

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

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown & Gray Clay LOAM *(continued)*			
	3	3.1	
	8	S/15	23
	10		
-45	5		
	8	3.8	
	12	S/15	19
-50			
	9		
	13	3.9	
	17	S/10	16
-55			
	8		
	13	4.2	
	17	S/15	17
-60			
Fine to Coarse Limestone Gravel			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		500.3	3.3
(Very Dry)			S/15 16
Brown & Gray Clay LOAM *(continued)*			
-65			
500.1	10	2.0	
Gray SILT	17	S/10	
	22	5.7	23
		S/10	19
-70	7		
Some wood found 494.6	10	2.0	34
Gray Silty CLAY 494.1	15	S/20	
End of Boring @ 71 ft		2.3	25
		S/15	
-75			
-80			

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, Shively Geotechnical, Inc.

Page 1 of 2

Date 1/26/05

ROUTE 586 DESCRIPTION West Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3rd PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W001 Station ____

BORING NO. SB-15 Station 1352+01 Offset 84.00ft Right Ground Surface Elev. 560.57 ft

Surface Water Elev. NA ft Stream Bed Elev. NA ft

Groundwater Elev.: First Encounter Dry ft Upon Completion 515.9 ft ▽ After 23 Days 560.3 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-Brown Silty Clay LOAM			
	1		
	2	1.0	26.6
	2	S/20	
	1		
	2	1.0	28.1
-5	3	B/20	
Field shear vane test at 7.5 Feet			
			31.7
551.07			
Gray SILT			
-10			
549.07			
Dark Gray Brown Silty Clay LOAM			
Field shear vane test at 12.5 Feet			
			29.6
-15			
-Very Dark Gray, with Organics below 15.5 feet	1		
	1	0.7	37.2
	3	B/20	
542.57			
Dark Gray-Brown Silty CLAY	1		
	2	1.5	24.2
-20	4	S/20	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray-Brown Silty CLAY *(continued)*			
540.07			
Gray CLAY	2		
	2	0.8	23.4
	4	S/15	
537.57			
Gray SILT			
	0		
	1		
-25	2	0.4	27.6
	3	S/15	
535.07			
Gray-Brown Clay LOAM			
	1		
	2		16.3
	3		
532.57			
Gray Brown Silty LOAM	2		
	5	1.5	13.0
	9	S/10	
528.82			
Gray-Brown CLAY			
	2		
	4	1.8	20.3
-35	6	B/15	
-40	5	2.4	19.0
	8	S/20	

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, Shively Geotechnical, Inc.

Page 2 of 2

Date 1/26/05

ROUTE 586 DESCRIPTION West Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3rd PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W001 Station ____

BORING NO. SB-15 Station 1352+01 Offset 84.00ft Right Ground Surface Elev. 560.57 ft

Surface Water Elev. NA ft Stream Bed Elev. NA ft

Groundwater Elev.: First Encounter Dry ft Upon Completion 515.9 ft ▽ After 23 Days 560.3 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-Brown CLAY *(continued)*			
	3		
▽	5	2.8	18.1
-45	8	S/20	
513.82			
Gray-Brown Clay LOAM			
	5		
	11	6.6	15.7
510.57	17	S/15	
End of Boring			
-70			
-75			
-80			

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, Shively Geotechnical, Inc.

Page 1 of 2

Date 1/28/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3rd PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002 Station ____

BORING NO. SB-19 Station 1351+76 Offset 84.00ft Left Ground Surface Elev. 562.89 ft

Surface Water Elev. NA ft Stream Bed Elev. NA ft

Groundwater Elev.: First Encounter 549.9 ft ▽ Upon Completion 529.9 ft ▽ After 18 Days 561.9 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-Brown Silty Clay LOAM			
▽	2		
	4	2.5	20.5
559.89	4	S/10	
Gray-Brown SILT			
	1		
	2	0.7	28.2
-5	3	B/20	
			27.7
-10			
Field shear vane test at 10.0 Feet			
▽			32.5
548.39			
Dark Gray Silty Clay LOAM			
-15			
Field shear vane test at 15.0 Feet	1		
	2	0.5	28.0
	2	S/20	
544.89			
Dark Gray Silty CLAY			
	1		
	1	0.2	31.1
-20	2	B/10	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray Silty CLAY *(continued)*	542.39		
Gray Clay LOAM			
	1		
	2	0.4	26.2
	3	S/15	
	1		
	3	0.4	16.8
-25	6	S/10	
	2		
	5	1.2	14.1
	6	S/15	
534.89			
Brown Silty CLAY			
	2		
	6	4.2	15.2
-30	9	S/20	
-Gray below 32.0 Feet			
▽			
	5		
	10	5.5	17.0
-35	11	S/15	
526.14			
Gray-Brown CLAY			
	3		
	6	1.8	21.7
-40	7	S/15	

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, Shively Geotechnical, Inc.

Page 2 of 2

Date 1/28/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION SW 1/4, SEC. 5, TWP. 3N, RNG. 7W, 3rd PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002 Station ____

BORING NO. SB-19 Station 1351+76 Offset 84.00ft Left Ground Surface Elev. 562.89 ft

Surface Water Elev. NA ft Stream Bed Elev. NA ft

Groundwater Elev.: First Encounter 549.9 ft ▽ Upon Completion 529.9 ft ▽ After 18 Days 561.9 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-Brown CLAY *(continued)*			
	4		
-45	7	2.9	21.8
	10	S/15	
-Trace Gravel below 47.0 Feet			
	4		
	10	4.3	16.9
512.89	16	S/15	
End of Boring			
-60			
-70			
-80			

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, Shively Geotechnical, Inc.

Page 1 of 2

Date 1/28/05

ROUTE 586 DESCRIPTION East Retaining Wall LOGGED BY MH/PMK

SECTION 60-10-4HB LOCATION NW 1/4, SEC. 8, TWP. 3N, RNG. 7W, 3rd PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140-lb Hydraulic

STRUCT. NO. 060-W002 Station ____

BORING NO. SB-23 Station 1354+33 Offset 82.00ft Left Ground Surface Elev. 563.08 ft

Surface Water Elev. NA ft Stream Bed Elev. NA ft

Groundwater Elev.: First Encounter 557.1 ft ▽ Upon Completion 524.1 ft ▽ After 21 Days 562.6 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-Brown SILT			
▽	5		
	6	3.2	19.1
	6	S/15	
	1		
	2	1.0	25.8
-5	3	B/20	
			29.0
-10			
Field shear vane test at 7.5 Feet			
			26.3
552.58			
Gray-Brown Silty Clay LOAM			
Field shear vane test at 12.5 Feet			
-15			
	1		
	2	0.1	28.5
	3	B/20	
545.08			
Dark Gray-Brown Silty CLAY	2		
	2	1.0	28.2
-20	3	S/10	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray-Brown Silty CLAY *(continued)*	542.58		
Gray-Brown Silty LOAM			
	1		
	1		24.6
	1		
540.08			
Brown Clay LOAM			
	2		
	5	1.4	15.8
-35	8	S/15	
-Gray-Brown below 25.5 Feet			
	3		
	8	1.4	14.4
	4	S/20	
535.08			
Brown Silty Clay LOAM No recovery in SPT sampler, obtained grab sample	9		
	14		30.2
-30	17		
531.33			
Dark Gray-Brown SILT			
	10		
	14	4.0	17.1
-35	12	S/15	
526.33			
Gray-Brown CLAY			
▽	4		
	5	2.1	25.7
-40	7	S/15	

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-67 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

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