ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHT. NO.
T.R. 553	03-10117 -00-BR	JEFFERSON	19	19
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

CONTRACT NO. 95423

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

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Date 5/11/04

ROUTE TR 553 DESCRIPTION Structure over IC/CN Railroad LOGGED BY E. Sandschafer

SECTION 03-10117-00-BR LOCATION Moores Prairie Twp., E 1/2, SEC. 34, TWP. 4 S, RNG. 4 E, 3 PM

COUNTY Jefferson DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-9922
Station
BORING NO. 1 (W Abut)
Station 18+57
Offset 0.00ft
Ground Surface Elev. 500.58 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
500.18 Oil & chip (1/2") surface over cinders.			
Stiff, damp, brown mottled gray, CLAY.	3		
	4	1.7	18
	5	PP	
498.08 Stiff to medium, damp, brown mottled gray, SILTY CLAY.	3		
	3	1.2	21
	4	PP	
	2		
	4	1.5	24
	4	PP	
	2		
	4	0.8	22
	4	B	
Gray mottled red.	2		
	4	1.2	25
	5	S	
486.08 Very stiff, damp, gray, SILTY LOAM TILL w/ few wood fragments.	2		
	4	2.1	17
	6	B	
483.58 Very stiff, damp, red mottled gray, CLAY TILL.	2		
	3	2.2	19
	5	B	
	9		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
480.48/ 480.08 Very dense, damp, gray w/ red layering, SANDSTONE.	50/5"		12
Borehole continued with rock coring.	50/1"		

Latitude - Longitude - Map Datum

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
Ill. Dept. of Trans. D-7

ROCK CORE LOG

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Date 5/11/04

ROUTE TR 553 DESCRIPTION Structure over IC/CN Railroad LOGGED BY E. Sandschafer

SECTION 03-10117-00-BR LOCATION Moores Prairie Twp., E 1/2, SEC. 34, TWP. 4 S, RNG. 4 E, 3 PM

COUNTY Jefferson CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 041-9922
Station
BORING NO. 1 (W Abut)
Station 18+57
Offset 0.00ft
Ground Surface Elev. 500.58 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.00 in
Top of Rock Elev. 480.08 ft
Begin Core Elev. 480.08 ft

DEPTH (ft)	CORE (#)	REC. RQD. RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Soft, brown w/ thin red & gray layering, SANDSTONE. 480.08		92	39		
-25					
		100	24		
472.08 Medium, gray w/ thin black layering, SANDSTONE.					
-30					
469.08 Hard, gray, SANDSTONE w/ high amount of quartz.		100	37		
466.68 Gray, moderately weathered, CLAY SHALE.					
-35					
465.08 Extent of exploration.					
Benchmark: Nail w/ ribbon, 18+00 (local station originally 3+00) = 498.06'					
-40					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

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Date 5/11/04

ROUTE TR 553 DESCRIPTION Structure over IC/CN Railroad LOGGED BY E. Sandschafer

SECTION 03-10117-00-BR LOCATION Moores Prairie Twp., E 1/2, SEC. 34, TWP. 4 S, RNG. 4 E, 3 PM

COUNTY Jefferson DRILLING METHOD Hollow Stem Auger & Split Spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-9922
Station
BORING NO. 2 (E Abut)
Station 21+63
Offset 0.00ft
Ground Surface Elev. 499.00 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
498.80 Oil & chip (1/2") surface over cinders.			
Stiff, damp, brown mottled gray, CLAY.	1		
	2	1.1	20
Piece of oil & chip stuck in sampler shoe, sample broken.	3	PP	
	1		
	2	1.5	18
Sample broken. More Silt at lower elevations.	3	PP	
492.00 Stiff, damp, gray mottled brown, CLAY LOAM w/ few roots.	2		
	4	1.5	18
	5	B	
489.50 Stiff to medium, damp, gray, SILTY CLAY.	3		
	6	1.7	19
	6	PP	
	2		
	3	1.0	26
	3	B	
	1		
	2	1.1	20
	3	B	
482.00 Medium to soft, very damp, brown & gray, SANDY LOAM.	2		
	2	0.7	23
	2	B	
	0		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium to soft, very damp, brown & gray, SANDY LOAM. 478.10	1	0.4	19
(continued)	27	B	
Very dense, very moist, brown w/ thin gray/black layering, SANDSTONE. 476.40	18		
Extent of exploration.	50/1"		20
	50/0"		
Benchmark: Nail w/ ribbon, 18+00 (local station originally 3+00) = 498.06'			

Latitude - Longitude - Map Datum

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)

BORING 1

BORING 2

HLR
Rice, Berry and Associates
A Division of Hampton, Lenzini and Renwick, Inc.
Civil & Structural Engineers
3085 Stevenson Drive
Suite 201
Springfield, Illinois 62703
217-546-3400
P.O. Box 1036
DuQuoin, Illinois 62832
618-790-4637

Account Number
12-49-0002-1
Date: 01/04/06

DESIGNED: S.M.S. | CHECKED: S.W.M. | DRAWN: D.T.M.

BORINGS

SECTION 03-10117-00-BR

MOORES PRAIRIE ROAD DISTRICT

JEFFERSON COUNTY

STR. NO. 041-9929 STATION 20+00