

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 653	04-00256-00-BR	SHELBY	40	40
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract No. 95555

SHEET NO. 14  
14 SHEETS

**Illinois Department of Transportation**  
Division of Highways  
District 7 - Materials

### ROCK BORING LOG

Page 2 of 2  
Date 11/20/07

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandoshafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N. R. 10 E. 3 PM

COUNTY Shelby CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 087-3012 CORING BARREL TYPE & SIZE NW, corr dbt 1 1/2" self liner

Station 20+06.00 Core Diameter 2.06 in  
Top of Rock Elev. 532.85 ft  
Bottom Core Elev. 528.86 ft

BORING NO. 5 New W Abut Station 22+00.00\*  
Offset 40.00 ft  
Ground Surface Elev. 549.85 ft

DEPTH (ft)	REMARKS	R	C	Q	U	W	S	STRENGTH (psi)
0	Soft, gray, SANDY CLAY SHALE.	CI	84	46	0.6			
528.86	Gray, Estimated LIMESTONE. Rock Core Sample B5C1 of 23.1' to 23.5' depth = 194.5 lb Qu.							
528.86	Soft, gray, SANDY CLAY SHALE.							
549.85	Rock Core Sample B5C2 of 25.5' to 25.9' depth = 18.8 lb Qu.	C2	100	53	0.6			
520.26	Gray, Estimated LIMESTONE.							
520.26	Soft, gray, SANDY CLAY SHALE.							
518.86	Extent of exploration.							

Remarks: Chiseled square on SE wingwall of existing structure = 554.80' elevation. Provided by Shelby County Engineer.

\* Station and offset based on new alignment.

Color pictures of the cores Available on request  
Cores will be stored for examination until 11/20/08  
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  
District 7 - Materials

### SOIL BORING LOG

Page 1 of 2  
Date 11/20/07

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandoshafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N. R. 10 E. 3 PM

COUNTY Shelby DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto HQ#

STRUCT. NO. 087-3012

Station 20+06.00

BORING NO. 6 New W Abut Station 22+00.00\*  
Offset 22.50 ft  
Ground Surface Elev. 547.32 ft

DEPTH (ft)	REMARKS	D	L	C	S	I	W	U	W	S	STRENGTH (psi)
0	Very soft, damp, brown, SANDY CLAY.										25
524.82	Very loose, wet, gray, fine grained, SAND. 5% passing #200 sieve. (continued)										
524.82	Very dense, moist, gray, SANDY CLAY SHALE.										
549.82	Stiff, damp, brown, mix of SANDY CLAY and SANDY LOAM. Tuffed sandy clay pieces w/ PP, unable to test Sandy Loam.										
549.82	Borehole clogged with rock coring.										
537.82	Soft, wet, brown, SANDY LOAM w/ some fine gravel.										

Remarks: Chiseled square on SE wingwall of existing structure = 554.80' elevation. Provided by Shelby County Engineer.

\* Station and offset based on new alignment.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bridge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1208) BBS, Form 137 (Rev. 8-99)

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### ROCK BORING LOG

Page 2 of 2  
Date 11/20/07

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandoshafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N. R. 10 E. 3 PM

COUNTY Shelby CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 087-3012 CORING BARREL TYPE & SIZE NW, corr dbt 1 1/2" self liner

Station 20+06.00 Core Diameter 2.06 in  
Top of Rock Elev. 524.82 ft  
Bottom Core Elev. 521.82 ft

BORING NO. 6 New W Abut Station 22+00.00\*  
Offset 22.50 ft  
Ground Surface Elev. 547.32 ft

DEPTH (ft)	REMARKS	R	C	Q	U	W	S	STRENGTH (psi)
521.82	Gray, SANDY CLAY SHALE. Rock core sample B6C1 from 26.0' to 26.5' depth = 24.7 lb Qu.	CI	92	39	0.9			
518.82	Rock core sample B6C2 from 32.0' to 32.5' depth = 12.3 lb Qu.							
518.82	Extent of exploration.							

Remarks: Chiseled square on SE wingwall of existing structure = 554.80' elevation. Provided by Shelby County Engineer.

\* Station and offset based on new alignment.

Color pictures of the cores Available on request  
Cores will be stored for examination until 11/20/08  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, Form 138 (Rev. 8-99)

Note: Stations and offsets of soil borings are based on the existing alignment.

**BORING LOGS**  
F.A.S. RTE. 653 - SEC. 04-00256-00-BR  
SHELBY COUNTY  
STATION 21+06.00  
STRUCTURE NO. 087-3563