FHWA REGION	STATE	FEDERAL AID ROUTE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
3	VA.	—			U000-108-110, B607	92

Robertson Bridge over Dan River

08BH-045 — BH-026 Abutment B

STATION: 210+68 OFFSET: -4
LATITUDE: 36.579950 LONGITUDE: 79.432140
SURFACE ELEVATION: 436.1 ft COORD. DATUM: NAD 83

Date drilled: 08/14/08.
Drilling methods: 3¼" hollow stem auger, Standard Penetration Tests, and NQ wire line coring.
Standard Penetration Test method: automatic hammer.
Drill: CME 45B Truck.
Driller: G. W. Wise, Jr.
Logger: G. W. Wise, Jr.

GROUND WATER: Standing water was stabilized at 22.0 feet depth (elevation 414.1) after 24 hours.

Depth (ft)	Elevation (ft)	Standard Penetration Test / Hammer Blows	Soil Recovery	Sample Legend / Sample Depth	Core Recovery	Rock Quality Designation	Strata / Joints	Strata Legend	Field Description of Strata	Liquid Limit	Plasticity Index	Moisture Content (%)
0	436.1								0.0 / 436.1 Topsoil.			
									0.5 / 435.6 FILL: "Augered broken rocks."			
2	435											
4		3 4 26	70%	3.5 – 5					Tan sandy SILT, firm, dry.			
6	430								"Composite boring: the drill was moved four times to miss concrete of the existing abutment."			
8		3 2 4	100%	8.7 – 10.2					Tan silty SAND, loose, moist.			
10	425											
12		4 3 2	100%	13.7 – 15.2					Dark tan silty SAND, firm, moist. over a cobble.			
									15.2 / 420.9 ALLUVIUM:			
16	420											
18		3 3 3	100%	18.7 – 20.2					Gray silty SAND, loose, wet. SM	16	NP	
	415								414.1			
22									22.0 / 414.1			
24		1 2 2	100%	23.7 – 25.2					Brown sandy SILT, contains mica, soft, moist. ML	30	4	
26	410											

08BH-045 Continued — BH-026 Abutment B

Pile tip elev. 402.00

Depth (ft)	Elevation (ft)	Standard Penetration Test / Hammer Blows	Soil Recovery	Sample Legend / Sample Depth	Core Recovery	Rock Quality Designation	Strata / Joints	Strata Legend	Field Description of Strata	Liquid Limit	Plasticity Index	Moisture Content (%)
27	409.1								27.0 / 409.1 Dark gray silty SAND, contains mica, very loose, moist. SM	24	NP	
28		1 1 1	100%	28.7 – 30.2								
30	405											
									31.6 / 404.5 DECOMPOSED AND WEATHERED ROCK			
32				32.6					32.6 / 403.5 "Auger Refusal"			
34				34.9	100%	52	40 70 75 25		ROCK: Moderately weathered, hard, fractured, pink and light gray, feldspar quartz GNEISS. GNS			
36	400						25 75 55					
					76%	29			Same.			
38							40 35 40		38.6 / 397.5 Unweathered, hard, fracture, dark gray, hornblende GNEISS. GNS			
40				39.8			30					
42	395						55 30		40.1 / 396.0 Slightly weathered to moderately weathered, very hard to soft, fractured, white and tan, feldspar PARAGNEISS. GNS			
					63%	25						
44				44.9			30					
46	390						90 70					
48					100%	46	40 20 80		Same.			
50				49.9			20 60 40					
					0%				49.9 / 386.2			
52	385			50.9					50.9 / 385.2 Bottom of the boring.			

REMARKS:
"Lost the core barrel in the boring."
Cores must be examined at critical locations because dip measurements are incomplete.

08BH-046 — BH-027 Abutment B

STATION: 210+69 OFFSET: -41
LATITUDE: LONGITUDE:
SURFACE ELEVATION: 438.5 ft COORD. DATUM: NAD 83

Date drilled:
Drilling methods:
Standard Penetration Test method:
Drill:
Driller:
Logger:
GROUND WATER

Depth (ft)	Elevation (ft)	Field Description of Strata	Liquid Limit	Plasticity Index	Moisture Content (%)
0	438.5	0.0 / 438.5			
		Boring Omitted			

THE SUBSURFACE INFORMATION SHOWN ON THE BORING LOGS IN THESE PLANS WAS OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH SOLELY FOR USE BY THE DEPARTMENT IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE DEPARTMENT HAS NO REASON TO SUSPECT THAT SUCH INFORMATION IS NOT REASONABLY ACCURATE AS AN APPROXIMATE INDICATION OF THE SUBSURFACE CONDITIONS AT THE SITES WHERE THE BORINGS WERE TAKEN. THE DEPARTMENT DOES NOT IN ANY WAY WARRANT OR GUARANTEE THAT SUCH DATA CAN BE PROJECTED AS INDICATIVE OF CONDITIONS BEYOND THE LIMITS OF THE BORINGS SHOWN; AND ANY SUCH PROJECTIONS BY BIDDERS ARE PURELY INTERPRETIVE AND ALTOGETHER SPECULATIVE. FURTHER, THE DEPARTMENT DOES NOT IN ANY WAY GUARANTEE, EITHER EXPRESSLY OR BY IMPLICATION, THE SUFFICIENCY OF THE INFORMATION FOR BID PURPOSES.

THE BORING LOGS ARE MADE AVAILABLE TO BIDDERS IN ORDER THAT THEY MAY HAVE ACCESS TO SUBSURFACE DATA IDENTICAL TO THOSE WHICH ARE POSSESSED BY THE DEPARTMENT, AND ARE NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INTERPRETATION AND JUDGMENT BY THE BIDDERS.

Note: See Material and Sample Symbols List.

BC 08-53-05
UPC 17740

George W Wise
2009.09.21 15:44:41 -04'00'
VDOT MATERIALS DIVISION
LYNCHBURG, VA
DISTRICT GEOLOGIST

b28678092

No.	Description	Date

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

ENGINEERING GEOLOGY
10 of 10

Designed: VDOT
Drawn: DLW
Checked: VDOT

Date	Plan No.	Sheet No.
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