NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.T540402	**ID.** R-2417BB	**COUNTY** LEE	**GEOLOGIST** E.C. CAMPBELL
SITE DESCRIPTION STRUCTURE NO. 1 ON -Y1- (SR 1524, O'QUINN RD.) OVER -L- (SANFORD BYPASS, US 421/NC 87)			**GROUND WATER**
BORING NO. BI-A	**BORING LOCATION** 20+09	**OFFSET** 13' LT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEVATION 432.6'	**NORTHING** 626726	**EASTING** 1963780		**24 HR.** 32.1'
TOTAL DEPTH 56.2'	**DRILL MACHINE** CME-45C	**DRILL METHOD** MUD ROTARY	**HAMMER TYPE** AUTOMATIC	
START DATE 9/16/03	**COMPLETION DATE** 9/16/03	**SURFACE WATER DEPTH** N/A	**DEPTH TO ROCK** 56.2'	

ELEV.	DEPTH (FT.)	BLOW COUNT 0.5'	0.5'	0.5'	PEN. (FT.)	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NUMBER	▼/MOI.	LOG	SOIL AND ROCK DESCRIPTION
432.6										
430.0	3.0	1	0	4	1.0	4		M		COASTAL PLAIN, YELLOW-BROWN, SILTY CLAY
425.0	8.0	4	9	12	1.0	21		M		
420.0	13.0	2	4	6	1.0	10		M		
415.0	18.0	2	3	6	1.0	9		M		RESIDUAL, ORANGE-BROWN, PINK-WHITE, TAN, AND LIGHT GRAY, SAPROLITIC, SANDY SILT
410.0	23.0	2	2	5	1.0	7	SS-24	40%		
405.0	28.0	2	3	6	1.0	9		M		
400.0	33.0	2	4	8	1.0	12		▼ M		
395.0	38.0	6	11	15	1.0	26		M		
390.0	43.0	6	13	16	1.0	29		M		
385.0	48.0	7	12	18	1.0	30		M		
380.0	53.0	100			0.2	100+				WEATHERED ROCK (BIOTITE GNEISS)
375.0						BORING TERMINATED AT ELEVATION 376.4 FEET ON CRYSTALLINE ROCK (BIOTITE GNEISS)				
370.0										
365.0										
360.0										
355.0										

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SHEET 9

PROJECT NO. 8.T540402	**ID.** R-2417BB	**COUNTY** LEE	**GEOLOGIST** E.C. CAMPBELL
SITE DESCRIPTION STRUCTURE NO. 1 ON -Y1- (SR 1524, O'QUINN RD.) OVER -L- (SANFORD BYPASS, US 421/NC 87)			**GROUND WATER**
BORING NO. BI-B	**BORING LOCATION** 19+96	**OFFSET** 11' RT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEVATION 431.7'	**NORTHING** 626744	**EASTING** 1963759		**24 HR.** 26.0'
TOTAL DEPTH 58.3'	**DRILL MACHINE** CME-45C	**DRILL METHOD** MUD ROTARY	**HAMMER TYPE** AUTOMATIC	
START DATE 9/15/03	**COMPLETION DATE** 9/15/03	**SURFACE WATER DEPTH** N/A	**DEPTH TO ROCK** N/A	

ELEV.	DEPTH (FT.)	BLOW COUNT 0.5'	0.5'	0.5'	PEN. (FT.)	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NUMBER	▼/MOI.	LOG	SOIL AND ROCK DESCRIPTION
431.7										
430.0	2.9	5	11	16	1.0	27	SS-20	27%		COASTAL PLAIN, RED-BROWN AND YELLOW-BROWN, SILTY CLAY
425.0	7.9	5	6	7	1.0	13		M		
420.0	12.9	2	4	5	1.0	9	SS-21	M		
415.0	17.9	3	5	6	1.0	11		M		RESIDUAL, PINK-WHITE, ORANGE-BROWN, AND LIGHT GRAY, SAPROLITIC, SANDY SILT
410.0	22.9	3	4	5	1.0	9		M		
405.0	27.9	2	2	7	1.0	9	SS-22	▼ M		
400.0	32.9	5	6	9	1.0	15		M		
395.0	37.9	5	10	16	1.0	26		M		
390.0	42.9	10	17	20	1.0	37	SS-23	20%		
385.0	47.9	18	38	62	0.4	100+				WEATHERED ROCK (BIOTITE GNEISS)
380.0	52.9	70	30		0.1	100+				
375.0	57.9	100			0.4	100+				
370.0						BORING TERMINATED AT ELEVATION 373.4 FEET IN WEATHERED ROCK (BIOTITE GNEISS)				
365.0										
360.0										
355.0										