

**PARTIAL BORING LOG
BB 434**

**PARTIAL BORING LOG (CONT'D.)
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GZA GEOENVIRONMENTAL OF NEW YORK 3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK ENGINEERS AND SCIENTISTS		PROJECT U.S. Route 7 Bannington Bypass Bannington, Vermont FILE NO.: 13417		SHEET 1 of 5 ROADWAY Rt. 7 Bypass STATION 9+272 OFFSET 27.6 MR					
CONTRACTOR Capital Environmental Drilling Services DRILLER Steve Clavette GZA REPRESENTATIVE MJS		BORING TYPE BB - East Rd. (Park St. Ext) Bridge N Abutment GROUND SURFACE ELEVATION 243.2 START DATE 02/17/95		DATUM NVDG END DATE 02/17/95					
WATER LEVEL DATA									
TYPE OF DRILL RIG Mobile Drill B-53		DATE 02/17/95		TIME 0720					
CASING SIZE AND TYPE 4 inch I.D. Flush Joint Casing		WATER 11.1'		CASING 40'					
OVERBURDEN SAMPLING METHOD 2 inch O.D. x 24 inch Long Split Spoon		REMARKS stabilized 11 hrs.							
ROCK DRILLING METHOD									
DEPTH (M)	DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION	CASING DEPTH BLOWS FT.	STRATUM DESCRIPTION	NOTES	
		BLOWS / 6"	NO.	DEPTH (FT)					N-VALUE / RQD(%)
0.3	1	100/3"	S-1	1-1.25	100+	65	Very dense, gray, fine to coarse GRAVEL, little fine to coarse Sand, damp. FILL.	ASPHALT PAVEMENT 0.7 ft.	1.
0.6	2							GRANULAR FILL 2.5 ft.	2.
0.9	3								
1.2	4								
1.5	5	17	S-2	5-7	18	50	Medium dense, brown, fine to coarse SAND, little fine to coarse Gravel, little Silt & Clay, moist.	WEATHERED GLACIAL TILL	
1.8	6	10							
2.1	7	8							
2.4	8	6						8.5 ft.	
2.7	9								
3.0	10	14	S-3	10-12	52	70	Very dense, brown, fine to coarse SAND and fine Gravel, little Silt & Clay, moist.	GLACIAL TILL	
3.4	11	26							
3.7	12	29							
4.0	13								
4.3	14	50	S-4	14-16	89	60	Hard, yellow-brown, SILT & CLAY and fine to coarse Sand, trace fine Gravel, moist.		
LEGEND S - Split Spoon Soil Sample U - Undisturbed Soil Sample C - Rock Core Sample						NOTES: 1. Pavement 0 to .7 ft. (measured). 2. Fill .7 to 2.5 ft. (measured). Drillers augered to 10 ft., then pulled augers and used flush joint casing.			
GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. NOTES: 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.						GZA BORING No. 9+272			

BOTTOM OF ABUT. 2 FOOTING
EL. 237.50 m

GZA GEOENVIRONMENTAL OF NEW YORK 3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK ENGINEERS AND SCIENTISTS		PROJECT U.S. Route 7 Bannington Bypass Bannington, Vermont FILE NO.: 13417		SHEET 2 of 5 ROADWAY Rt. 7 Bypass STATION 9+272 OFFSET 27.6 MR					
DEPTH (M)	DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION	CASING DEPTH BLOWS FT.	STRATUM DESCRIPTION	NOTES	
		BLOWS / 6"	NO.	DEPTH (FT)					N-VALUE / RQD(%)
4.6	15	39							
		50							
4.9	16	46							
5.2	17								
5.5	18								
5.8	19	54	S-5	19-20.4	100+	90	Hard, yellowish-brown, SILT & CLAY and fine to coarse Sand, trace fine Gravel, moist.	GLACIAL TILL	
6.1	20	75							
6.4	21	100/5"							
6.7	22								
7.0	23								
7.3	24	53	S-6	24-26	71	85	Very dense, orange-brown, fine to coarse GRAVEL, some fine to coarse Sand, little Clay & Silt, moist.		
7.6	25	37							
7.9	26	34							
8.2	27	25							
8.5	28								
8.8	29	29	S-7	29-31	71	0	No recovery.		
9.1	30	30							
9.4	31	41							
9.7	32	136							
10.0	33								
LEGEND S - Split Spoon Soil Sample U - Undisturbed Soil Sample C - Rock Core Sample						NOTES: 3. Driller noted "cobbley" drilling from 27 to 33 ft.			
GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. NOTES: 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.						GZA BORING No. 9+272			

GZA GEOENVIRONMENTAL OF NEW YORK 3699 WEST HENRIETTA RD., ROCHESTER, NEW YORK ENGINEERS AND SCIENTISTS		PROJECT U.S. Route 7 Bannington Bypass Bannington, Vermont FILE NO.: 13417		SHEET 3 of 5 ROADWAY Rt. 7 Bypass STATION 9+272 OFFSET 27.6 MR					
DEPTH (M)	DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION	CASING DEPTH BLOWS FT.	STRATUM DESCRIPTION	NOTES	
		BLOWS / 6"	NO.	DEPTH (FT)					N-VALUE / RQD(%)
10.3	34	10	S-8	34-35.3	100+	50	Very dense, orange-brown, fine to coarse SAND, some Silt & Clay, trace fine Gravel.	GLACIAL TILL	
10.6	35	59							
10.9	36	100/4"							
11.2	37								
11.5	38								
11.8	39	14	S-9	39-40.75	100+	40	Very dense, orange-brown, fine to coarse SAND and Silt & Clay, moist.		
12.1	40	37							
12.4	41	103							
12.7	42	100/3"							
13.0	43								
13.3	44	78	S-10	44-44.9	100+	75	Very dense, orange-brown, fine to coarse SAND, some Silt & Clay, trace fine Gravel, moist.		
13.6	45	120/5"							
13.9	46								
14.2	47								
14.5	48								
14.8	49	146	S-11	49-49.8	100+	50	Very dense, orange-brown, fine to coarse SAND, some Silt & Clay, trace fine Gravel, moist.		
15.1	50	200/4"							
15.4	51								
15.7	52								
LEGEND S - Split Spoon Soil Sample U - Undisturbed Soil Sample C - Rock Core Sample						NOTES:			
GENERAL 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. NOTES: 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.						GZA BORING No. 9+272			

NOTE:
ENGLISH AND METRIC UNITS THAT WERE USED ON THE ORIGINAL BORING LOGS HAVE BEEN RETAINED.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	Bill
Highway No.	TH 5	Log Sta.	
		Surv. Sta.	
EAST ROAD OVER VT ROUTE 279			
BORING LOGS (2 OF 9)			
Designed By	S. BURBANK	Drawn By	A. THIBAUT
Checked By	Date	Bridge Design Supervisor	
M. CHENETTE	11/04	G. BOGUE	Date 03/07
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-1(K53)
Dgn.:	...Design\ER\ER-Bore2.dgn	Plot Date:	5/25/2011
Bridge Sheet No.	BR606	Sheet	253 of 577

