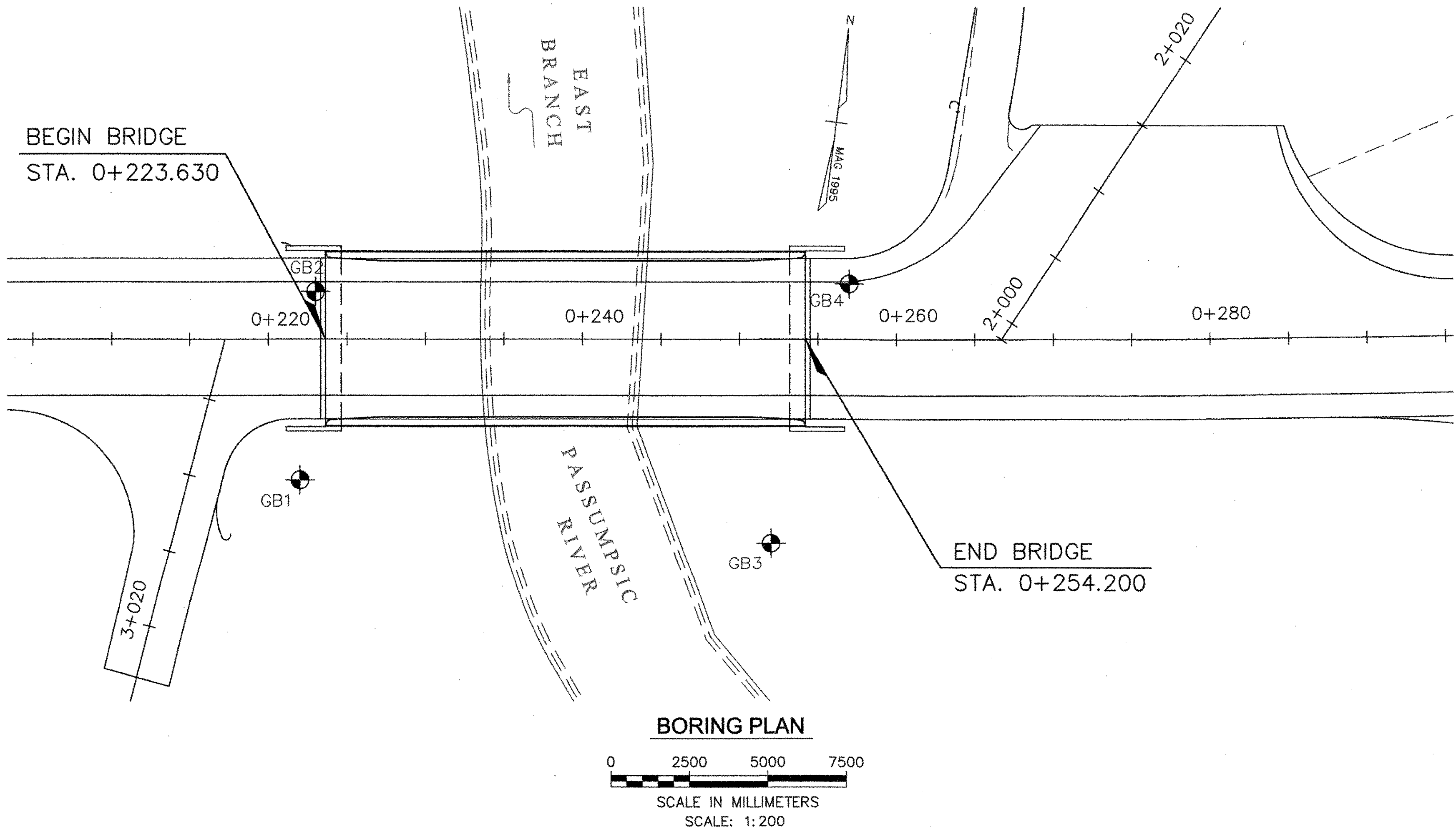


BORING LOG									
Project Name									
GEODESIGN INCORPORATED P.O. Box 669 Windsor, VT 05099 Tel: (802) 674-2033					1233 Shelburne Road, Suite E-1 South Burlington, VT 05403 Tel: (802) 682-5140				
Boring Company: M+W Soils Engineering Foreman: Mike Hitchcock GeoDesign Rep.: Andrew Elms Date Started: July 11, 2002 Date Finished: July 12, 2002 N. Coordinate: _____ E. Coordinate: _____ Ground Surface Elevation (meters): 218.08 Station: 4+222 Offset: 9.00 m Right									
Project Name: Lyndon BHF 0269 (10) Boring No.: GB-1 Page No.: 1 of 3 File No.: 837-05 Checked By: RSA									
Casing: H.S.A. Sampler: SS Type: H.S.A. SS I.D./O.D.: 11 cm / 8 cm Date and Time: _____ Depth (m): _____ Elevation (m): _____ Notes: _____ Hammer Wt.: NA 63.5 kg 7/11/02 9:50 AM 8.10 211.99 wet soils Hammer Fall: NA 78 cm 7/12/02 10:00 AM 5.09 212.99 Rmkk 5.1m Rig Type: Acker Truck Mounted Other: _____									
Sample Information		Sample Description		Strata Description					
Depth (m)	Coring Blow/0.3m	Type	Blows / 0.15 m Interval	Symbol	Elevation & Depth (meters)				
			0- 0.15 0.30 0.45 0.60						
1	81	SS	61 38 1.62 23 12 11 9		212.90	Granular Fill			
2	82	SS	61 01 3.05 2 2 2 2		212.90	(S1): Medium dense, brown, fine to coarse SAND, trace Silt, trace fine Gravel, moist.			
3	82	SS	61 01 3.05 2 2 2 2		212.90	(S2): Loose, brown, fine to medium SAND, trace Silt, moist.			
4	83	SS	61 8 4.67 50 13 4 3		212.90	(S3): Medium dense, grayish brown, fine to coarse SAND, little fine Gravel, trace Silt, moist, wetter than above.			
5	84	SS	33 33 8.10 17 37 500.028		209.85	5.18 Silty Gravelly SAND			
6	84	SS	33 33 8.10 17 37 500.028		209.85	(S4): Very dense, brown, fine to coarse SAND, little Silt, trace fine to coarse Gravel, wet.			
7	85	SS	61 33 7.02 19 10 14 9		209.85	(S5): Medium dense, brown, fine to coarse SAND, little Silt, little fine to coarse Gravel, wet.			
8					209.85	8.23 Gravelly SAND			
9									

BORING LOG									
Project Name									
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Boring Company: M+W Soils Engineering Foreman: Mike Hitchcock GeoDesign Rep.: Andrew Elms Date Started: July 11, 2002 Date Finished: July 12, 2002 N. Coordinate: _____ E. Coordinate: _____ Ground Surface Elevation (meters): 218.08 Station: 4+222 Offset: 9.00 m Right									
Project Name: Lyndon BHF 0269 (10) Boring No.: GB-1 Page No.: 2 of 3 File No.: 837-05 Checked By: RSA									
Casing: H.S.A. Sampler: SS Type: H.S.A. SS I.D./O.D.: 11 cm / 8 cm Date and Time: _____ Depth (m): _____ Elevation (m): _____ Notes: _____ Hammer Wt.: NA 63.5 kg 7/11/02 9:50 AM 8.10 211.99 wet soils Hammer Fall: NA 78 cm 7/12/02 10:00 AM 5.09 212.99 Rmkk 5.1m Rig Type: Acker Truck Mounted Other: _____									
Sample Information		Sample Description		Strata Description					
Depth (m)	Coring Blow/0.3m	Type	Blows / 0.15 m Interval	Symbol	Elevation & Depth (meters)				
			0- 0.15 0.30 0.45 0.60						
9	86	SS	61 46 8.14 9 13 13 12		211.99	(S6): Medium dense, reddish brown, fine to coarse SAND, some fine Gravel, trace Silt, some oxidation, wet.			
10									
11	87	SS	61 15 10.97 9 13 41 14		211.99	(S7): Very dense, brown, fine to coarse SAND, trace Silt, trace fine Gravel, wet.			
12									
13	88	SS	61 20 12.19 13 18 18 19		211.99	(S8): Dense, brown fine to coarse SAND, trace Silt, trace fine Gravel, wet.			
14	89	SS	61 33 13.72 7 11 9 9		211.99	(S9): Similar to S8. Probable disturbed sample. See rmk (13.7 m).			
15									
16	90	SS	61 25 15.24 25 18 200.102		211.99	(S10): Very dense, brown fine to coarse SAND, trace Silt, trace fine Gravel, wet.			
17	91	SS	61 33 18.70 7 9 11 17		211.99	(S11): Similar to S10, except medium dense. Possibly disturbed sample. See rmk (18.2 m).			
18					200.71	17.37			

BORING LOG									
Project Name									
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Boring Company: M+W Soils Engineering Foreman: Mike Hitchcock GeoDesign Rep.: Andrew Elms Date Started: July 11, 2002 Date Finished: July 12, 2002 N. Coordinate: _____ E. Coordinate: _____ Ground Surface Elevation (meters): 218.08 Station: 4+222 Offset: 9.00 m Right									
Project Name: Lyndon BHF 0269 (10) Boring No.: GB-1 Page No.: 3 of 3 File No.: 837-05 Checked By: RSA									
Casing: H.S.A. Sampler: SS Type: H.S.A. SS I.D./O.D.: 11 cm / 8 cm Date and Time: _____ Depth (m): _____ Elevation (m): _____ Notes: _____ Hammer Wt.: NA 63.5 kg 7/11/02 9:50 AM 8.10 211.99 wet soils Hammer Fall: NA 78 cm 7/12/02 10:00 AM 5.09 212.99 Rmkk 5.1m Rig Type: Acker Truck Mounted Other: _____									
Sample Information		Sample Description		Strata Description					
Depth (m)	Coring Blow/0.3m	Type	Blows / 0.15 m Interval	Symbol	Elevation & Depth (meters)				
			0- 0.15 0.30 0.45 0.60						
18					18.29	Steel Drive Cone - No sampling (no strata could be identified). Recorded number of blows/ft to advance steel drive cone continuously to 23 meters.			
19									
20						Steel Drive Cone - blows/ft			
21						18.3 m: 25 blows			
22						18.6 m: 12 blows			
23						18.9 m: 12 blows			
24						19.2 m: 18 blows			
25						19.5 m: 30 blows			
26						19.8 m: 32 blows			
27						20.1 m: 32 blows			
28						20.4 m: 26 blows			
29						20.7 m: 22 blows			
30						21.0 m: 22 blows			
31						21.3 m: 41 blows			
32						21.6 m: 38 blows			
33						22.0 m: 36 blows			
34						22.3 m: 53 blows			
35						22.6 m: 46 blows			
36									
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ESTIMATED PILE TIP ELEVATION AT ABUTMENT 1 = 195.68



BORING NOTES:

- SOIL AND ROCK CLASSIFICATIONS, PROPERTIES, AND DESCRIPTIONS ARE BASED ON ENGINEERING INTERPRETATION FROM AVAILABLE SUBSURFACE INFORMATION AND MAY NOT NECESSARILY REFLECT ACTUAL VARIATIONS IN SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED BETWEEN INDIVIDUAL BORING OR SAMPLE LOCATIONS.
- OBSERVED WATER LEVELS AND/OR CONDITIONS INDICATED ARE AS RECORDED AT THE TIME OF EXPLORATION AND MAY VARY ACCORDING TO THE PREVAILING RAINFALL, METHODS OF EXPLORATION, AND OTHER FACTORS.
- ENGINEERING JUDGEMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED HEREIN. ANALYSIS AND INTERPRETATION OF SUBSURFACE DATA WAS PERFORMED AND INTERPRETED BY GEODESIGN, INC. FOR DESIGN AND ESTIMATING PURPOSES. PRESENTATION OF THE INFORMATION IN THE CONTRACT IS INTENDED TO PROVIDE THE CONTRACTOR ACCESS TO THE SAME DATA. THE SUBSURFACE INFORMATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATION, INDEPENDENT ANALYSIS, OR JUDGEMENT BY THE CONTRACTOR.
- PICTORIAL STRUCTURE DETAILS SHOWN ON THE BORING PLAN LAYOUT OR SOIL PROFILES ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT ACCURATELY PORTRAY FINAL CONTRACT DETAILS.
- TERMINOLOGY USED ON BORING LOGS TO DESCRIBE THE HARDNESS, DEGREE OF WEATHERING, AND SPACING OF FRACTURES, JOINTS AND OTHER DISCONTINUITIES IN THE BEDROCK IS DEFINED IN THE AASHTO MANUAL ON SUBSURFACE INVESTIGATIONS, 1988.

BORING CHART

BORING HOLE #	STATION	OFFSET (M)
GB-1	0+222	9.00 RT.
GB-2	0+223	3.00 LT.
GB-3	0+252	13.00 RT.
GB-4	0+257	3.50 LT.

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
Highway No.	VT 114	Log Sta.	
		Surv. Sta.	
VT 114 OVER PASSUMPSIC RIVER			
BORING LOGS & INFORMATION (1 OF 4)			
Designed By	GEODESIGN, INC.	Drawn By	B.J. MASSE
Checked By	M.A. COLGAN	Date	3/06
		Bridge Design Supervisor	M.A. COLGAN
		Date	3/06
PROJECT	LYNDON	PROJECT NO.	BRF 0269(10)
I.G.C. Info.	Bridge Sheet No. 50544BOR	Sheet	20 of 72