

DEFINITIONS (AASHTO)

VARVED - Alternate layers of silt and clay.	GRAVEL - Rounded particles of rock > 3" and < 0.075" (#10 sieve).
BOULDER - A rock fragment with an average dimension > 12 inches.	GRAVEL - FINE GRAINED SOIL , exhibits plasticity when moist and considerable strength when air-dried.
COBBLE - Rock fragments with an average dimension between 3 and 12 inches.	CLAY - Fine grained soil, exhibits no strength when air-dried.
MUCK - Soft organic soil (containing > 10% organic material).	SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
HARDPAN - Extremely dense soil, cemented layer, not softened when wet.	FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.	MOISTURE CONTENT of rock divided by dry weight of soil.
DIP - Inclination of bed with a horizontal plane.	GRAVEL - ROUNDED PARTICLES OF ROCK > 3" and < 0.075" (#10 sieve).

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

CONSISTENCY (COHESIVE SOILS)	DESCRIPTIVE TERM	DENSITY
bk	Black	<5
bl	Blue	5-10
brn	Brown	10-24
br	Brown	25-50
dk	Dark	50-50
g	Gray	>50
gn	Light Green	
lt	Light	
mic	Multicolored	
or	Orange	

ROCK	DESCRIPTION	R.Q.D.
<25	VERY POOR	<25
25 - 50	POOR	25 - 50
50 - 100	MED. STIFF	50 - 100
100 - 200	STIFF	100 - 200
200 - 400	VERY STIFF	200 - 400
>400	HARD	>400

UNDRAINED SHEAR STRENGTH	CONSISTENCY
>.90	EXCELLENT
.76 TO .90	GOOD
.51 TO .75	FAIR
.25 TO .50	POOR
<.25	VERY POOR

SOIL CLASSIFICATION

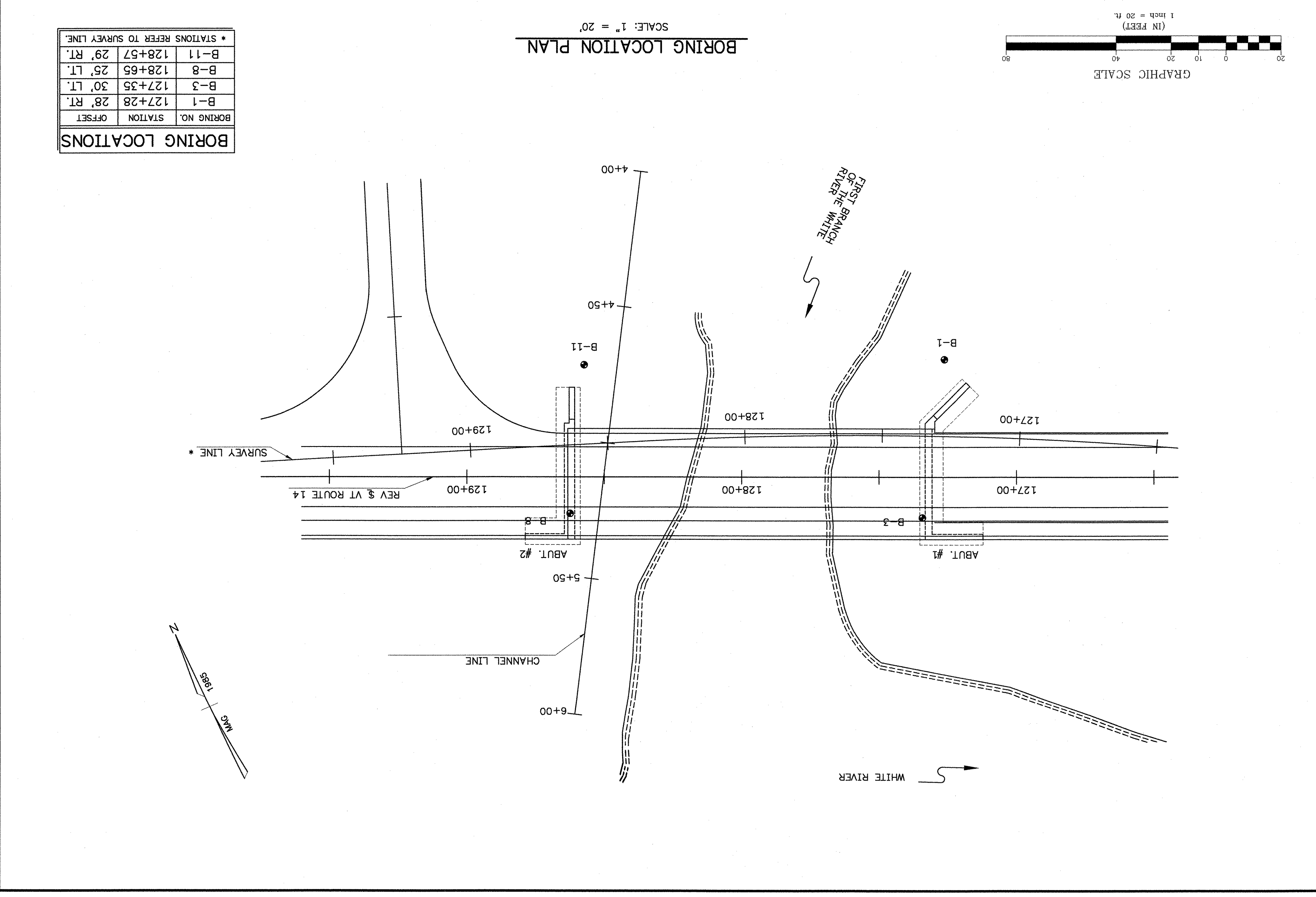
AASHTO	UNIFIED SOIL SYSTEM
A1	GRAVEL AND SAND
A2	SILTY OR CLAYEY GRAVEL AND SAND
A3	FINE SAND
A4	SILTY SOIL - LOW COMPRESSIBILITY
A5	SILTY SOIL - HIGHLY COMPRESSIBLE
A6	CLAYEY SOIL - LOW COMPRESSIBILITY
A7	CLAYEY SOIL - HIGHLY COMPRESSIBLE

COMMONLY USED SYMBOLS

SYMBOL	DESCRIPTION
▲	WATER ELEVATION
●	STANDARD PENETRATION BORING
○	ROD SOUNDING
○	SAMPLE
○	STANDARD PENETRATION TEST
○	BLOW COUNT PER FOOT FOR: 2" O.D. SAMPLER
○	1 3/8" I.D. SAMPLER
○	HAMMER WEIGHT OF 140 LBS. HAMMER FALL OF 30"
○	FIELD VANE SHEAR TEST
○	UNDISTURBED SOIL SAMPLE
○	BLAST
○	DIAMOND CORE
○	MUD DRILL
○	WASH HEAD
○	HOLLOW STEM AUGER
○	CORE SIZE 1 1/8"
○	CORE SIZE 1 5/8"
○	CORE SIZE 2 1/8"
○	DOUBLE TUBE CORE BARREL USED
○	LIQUID LIMIT
○	PLASTIC LIMIT
○	PLASTICITY INDEX
○	NON PLASTIC
○	MOISTURE CONTENT (DRY WGT. BASIS)
○	DAMP
○	MOIST TO WET
○	MOIST
○	WET
○	SATURATED
○	SOIL
○	BOULDER
○	GRAVEL
○	SAND
○	SILT
○	CLAY
○	HARDPAN
○	LEGE
○	NO LEDGE TO DEPTH
○	CANNOT PENETRATE FURTHER
○	TL08
○	NO RECOVERY
○	PERCENT RECOVERY
○	REC. RECOVERY
○	ROCK QUALITY DESIGNATION
○	CBR
○	LESS THAN
○	GREATER THAN

GENERAL NOTES

- The subsurface explorations shown herein were made between 1/29/93 and 2/22/93 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in saturated (loose) that it flows into drill casing during extraction of wash rod.
- 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 judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.



BORING LOCATIONS

BORING NO.	STATION	OFFSET
B-1	127+28	28' RT.
B-3	127+35	30' LT.
B-8	128+65	25' LT.
B-11	128+57	29' RT.

* STATIONS REFER TO SURVEY LINE.

STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of	ROYALTON
Bridge No.	21
Log Sta.	
Highway No.	VT. Route 14
Sur. Sta.	
VT. Route 14 over the First Branch of the White River	
BORING INFORMATION SHEET	
Designed By	AS
Drawn By	GFB
Checked By	AS
Bridge Design Supervisor	LMM
Date	11/00
CLW/LMM	11/00
PROJECT NO.	BRS 0147(S) S
PROJECT	ROYALTON
I.G.C. Info.	
Bridge Sheet No.	Sheet 38 Of 76

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5. Technology used on the Boring Logs to Describe the Hardness, Degree of Spacing of Fractures, Joints and other discontinuities in the Bedrock is defined in the AASHTO Manual of Subsurface Investigating, 1988.