CONTENTS

.2514B

 SHEET
 DESCRIPTION

 I
 TITLE SHEET

 2
 LEGEND

 3
 SITE PLAN

 4
 PROFILE

 5-6
 BORE LOGS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 34442.1.3 (R-2514B) F.A. PROJ. NHF-17(7)
COUNTY JONES

PROJECT DESCRIPTION US 17 FROM SOUTH OF BELGRADE AT SR 1330/SR 1439 TO NORTH OF MAYSVILLE

SITE DESCRIPTION BRIDGE ON -Y3- (SR 1116) OVER -L- (US 17 BYPASS) AT -Y3- STA. 18+17.03

STATE STATE PROJECT REFERENCE NO. SHEET TOTAL NO. R-2514B 1 6

CAUTION NOTICE

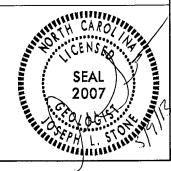
THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARROUS FIELD BORING LOOS, ROCK CORES, AND SOL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, CEOTECHNIZAL REDRIFERING LUNIT AT 1991 970-6850, NETTHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSUBFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSUBFACE CONDITIONS BETWEEN BORNES OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU UN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INVESTED THE IN SITU UN-PLACE) TEST DATA CAN BE THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MOISTURE CONDITIONS MOISTURE CONDITIONS AND WARD CONDITIONS TO CLIMATIC CONDITIONS MOISTURE CONDITIONS AND WARD CONDITIONS OF CONDITIONS MOISTURE MOISTURE MOIST

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSUBFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FIRML DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PLANS DESIGN. THE CONSTRUCTION PLANS AND DOLLMENTS FOR FIRML DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR QUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE COPPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS INCESSARY TO SATISTY MANSLE AS TO CONDITIONS TO BE ENCOUNTERED ON THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL CONDITIONS OF BE ENCOUNTERED ON THIS PROJECT. THE FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

	C.M. WRIKE
_	R.E. SMITH
_	H.L. FROATS
_	
_	
_	
_	-
_	
INVESTIGATED BY	J.L. STONE
CHECKED BY	D.N. ARGENBRIGHT
SUBMITTED BY	D.N. ARGENBRIGHT
DATE	MAY 2013

PERSONNEL



DRAWN BY: C.P. TURNER

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT
OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS,
SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS
FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE
CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

				SOIL AND RO	CK LEGEND, TERM	IS, SYMBOLS,	AND ABBREV	TATIONS		
-	SOIL DESCRIPTION		GRADATION CONTROL AND ACCOUNT OF THE PROPERTY AND ACCOUNT		ROCK DESCRIPTION				TERMS AND DEFINITIONS	
SUIL IS CONSIDERED TO BE THE UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS UNIFORM		UNIFORM - INDICATES THAT S	ELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. NIFORM - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO		HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT IF TESTED, WOULD YIELD SPT REFUSAL. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL.				ALLUYIUM (ALLUY.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.	
100 BLOWS PER FOOT ACCORDING TO ST.	TANDARO PENETRATION TEST (AASHTO T2	96, ASTM D-1586). SOIL	POORLY GRADED GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.			SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS. IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE				AQUIFER - A WATER BEARING FORMATION OR STRATA.
CLASSIFICATION IS BASED ON THE AASH CONSISTENCY, COLOR, TEXTURE, MOISTURE	E, AASHTO CLASSIFICATION, AND OTHER P	ERTINENT FACTORS SUCH	ANGULARITY OF GRAINS				OF WEATHERED ROCK. ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:			ARGILLACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS.
AS MINERALOGICAL COMPOSITION, ANGULA			THE ANGULARITY OR ROUNDNE SUBANGULAR, SUBROUNDED, OR	SS OF SOIL GRAINS IS DESIGNATED BY THE ROUNDED.	TERMS: ANGULAR,	WEATHERED	M11/1911//A			OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.
			n n	ROCK (WR)	BLOWS PER FO	BLOWS PER FOOT IF TESTED.		ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MINERAL NAMES SIGH AS DIGARTZ FELDERAR MICE TALL CLAY MATERIALS			CRYSTALLINE	FINE TO COARS	ARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT D SPT REFUSAL IF TESTED, ROCK TYPE INCLUDES GRANITE.		AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.		
CLASS. (≤ 35% PASSING *2		ORGANIC MATERIALS	WHENEVER THEY ARE CONSIDER			NUCK ICKI	GNEISS, GABBRO, SCHIST, ETC.			CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
011001	A-2 A-4 A-5 A-6 A-7		COMPRESSIBILITY			NON-CRYSTALLINE ROCK (NCR)	SEDIMENTARY ROCK THAT WOULD TELLO SPI REFUSAL IF TESTED, RUCK TYPE			COLLUVIUM - ROCK FRAGMENTS MIXED WITH SDIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM
0000000000	2-5 A-2-6 A-2-7		SLIGHTLY COMPRESS MODERATELY COMPRE		LESS THAN 31 EQUAL TO 31-50	COASTAL PLAIN		LITE, SLATE, SANDSTONE, ETC. N SEDIMENTS CEMENTED INTO ROCK,	RUT MAY NOT YIFI D	OF SLOPE,
SYMBOL 0000000000		S (((((()))))	HIGHLY COMPRESSIBLE LIOUID LIMIT GREATER THAN 50			SEDIMENTARY ROCK SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.				CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
7. PASSING STATE SILT- MUCK, GRANULAR SILT- MUCK,			PERCENTAGE OF MATERIAL ORGANIC MATERIAL GRANULAR SILT - CLAY			WEATHERING				DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT
* 40 30 MX 58 MX 51 MN		SOILS CLAY PEAT	ORGANIC MATERIAL SOILS SOILS OIHER MATERIAL TRACE OF ORGANIC MATTER 2 - 3% 3 - 5% TRACE 1 - 10% LITTLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE 10 - 20%			FRESH ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING, ROCK RINGS UNDER			ROCKS OR CUTS MASSIVE ROCK. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE	
	MX 35 MX 35 MX 36 MN 36 MN 36 MN 36 MN 36 M	W Total				HAMMER IF CRYSTALLINE.				HORIZONTAL,
PLASTIC INDEX 6 MX NP 18 MX 10	MN 48 MX 41 MN 48 MX 41 MN 48 MX 41 M MX 11 MN 11 MN 18 MX 18 MX 11 MN 11 M	, JOILS WITH	MODERATELY ORGANIC 5 - 10% 12 - 20% SOME 20 - 35%			VERY SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN,			DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF	
GROUP INDEX 8 8 8	4 MX 8 MX 12 MX 16 MX No M	HIGHLY	HIGHLY ORGANIC		SHLY 35% AND ABOVE	(V SLI.) CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.				THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
USUAL TYPES STONE FRAGS.		AMDUNTS OF SOILS	✓ WATER LE	GROUND WATER WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING			SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO (SLI) 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR			<u>FAULT</u> - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
OF MAJOR GRAYEL, AND CAND GRAVE	OR CLAYEY SILTY CLAYEY L AND SAND SOILS SOILS	MATTER	l	ATER LEVEL AFTER 24 HOURS	DRILLING			D. CRYSTALLINE ROCKS RING UNDER		FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
MATERIALS SAND SHIPD STATES		 	-					DISCOLORATION AND WEATHERING		FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM
AS A EXCELLENT TO GO!	OOD FAIR TO POOR	FAIR TO POOR UNSUITABLE	PERCHED	WATER, SATURATED ZONE, OR WATER BEARI	ING STRATA	(MOD.) GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED				PARENT MATERIAL.
	≤ LL - 30 ; P1 OF A-7-6 SUBG	ROUP IS > 11 - 30	SPRING OF	R SEEP		i	RESH ROCK.			FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
	SISTENCY OR DENSENESS			MISCELLANEOUS SYMBOLS	6			ED OR STAINED. IN GRANITDID ROCKS HOW KAOLINIZATION, ROCK SHOWS SE		FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN
PRIMARY SOIL TYPE COMPACTN		RANGE DF UNCONFINED COMPRESSIVE STRENGTH	ROADWAY EMBANKI	MENT (RE) OPTION SPT DPT DHT TEST BORIN	TEST BORING		N BE EXCAVATED WITH A GEOL TED, WOULD YIELD SPT REFUSA	OGIST'S PICK. ROCK GIVES 'CLUNK'	SOUND WHEN STRUCK.	THE FIELD.
CONSIST	TENCY (N-VALUE)	(TONS/FT ²)	WITH SOIL DESCR	PTION VST PHT	W/ CORE			<u>™</u> ED OR STAINED.ROCK FABRIC CLEAR	AND EVIDENT BUT REDUCED	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
GENERALLY VERY LO			SOIL SYMBOL	auger Boring	SPT N-VALUE	(SEV.) IN STRE	ENGTH TO STRONG SOIL. IN GR	RANITOID ROCKS ALL FELDSPARS AR		LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.
MATERIAL MEDIUM	DENSE 10 TO 30	N/A	ARTIFICIAL FILL (AF) OTHER - CORE BORING (RED SPT REFUSAL THAN ROADWAY EMBANKMENT		EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. 1F TESTED, YIELDS SPT N VALUES > 100 BPF				LENS - A BODY OF SDIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.	
(NON-COHESIVE) DENSE VERY DE							OR STAINED. ROCK FABRIC ELEME	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS, MOTTLING IN		
VERY SO		<0,25	INFERRED SOIL BO	DUNDARY OF MONITORING WEL	LL			TO SOIL STATUS, WITH DNLY FRAGME E OF ROCK WEATHERED TO A DEGRE		SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN
GENERALLY SOFT	2 TO 4	0.25 TO 0.50	INFERRED ROCK L	INE PIEZOMETER				BRIC REMAIN. <u>IF TESTED, YIELDS</u> S		INTERVENING IMPERVIOUS STRATUM.
SILT-CLAY MEDIUM MATERIAL STIFF		0.5 TO 1.0 1 TO 2	TTTT ALLUVIAL SOIL BO	- INSTALLATION	an	COMPLETE ROCK REDUCED TO SOIL, ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND				RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
(COHESIVE) VERY ST	TIFF 15 TO 30 >30	2 10 4	INSTALLATION		Jr.	SCATTERED CONCENTRATIONS, DUARTZ MAY BE PRESENT AS DIKES OR STRINGERS, SAPROLITE IS ALSO AN EXAMPLE,				<u>ROCK QUALITY DESIGNATION (ROD)</u> - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND
750		25/025 DIP & DIP DIRECTION OF ROCK STRUCTURES CONE PENETROMETER TEST			ROCK HARDNESS			EXPRESSED AS A PERCENTAGE.		
TEXTURE UN ORMIN SIZE				VERY HARD CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK, BREAKING OF HAND SPECIMENS REQUIRES				SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE		
U.S. STD. SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD OPENING (MM) 4,76 2,00 0,42 0,25 0,075 0,053			SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK,				PARENT ROCK. <u>SILL</u> - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND			
	COAPCE EIN	ıE		ABBREVIATIONS			: Scratched by Knife or Pi (ach Hand Specimen,	CK ONLY WITH DIFFICULTY, HARD HA	MMER BLOWS REQUIRED	RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL
	RAVEL SAND SAN	SILT CLAY	AR - AUGER REFUSAL BT - BORING TERMINATED	MED MEDIUM MICA MICACEDUS	VST - VANE SHEAR TEST WEA WEATHERED			CK, GOUGES OR GROOVES TO 0.25 10	ICHES DEEP CAN BE	TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
CL CLAY MOD MODERATE			MOD MODERATELY	7 - UNIT WEIGHT	HARD EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.				SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.	
SIZE IN. 12 3	2.0	0.00	CPT - CONE PENETRATION CSE COARSE	TEST NP - NON PLASTIC ORG ORGANIC	$\gamma_{ m d}$ - DRY UNIT WEIGHT			NCHES DEEP BY FIRM PRESSURE OF	KNIFE OR PICK POINT,	STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF
SOIL MOISTURE - CORRELATION OF TERMS DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST SAMPLE ABBREVIATIONS			SAMPLE ABBREVIATIONS S - BULK	HARD CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.				A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EDUAL TO OR LESS		
SOIL MOISTURE FCALE FIELD MOISTURE CHIDE FOR FIELD MOISTURE DESCRIPTION A - MOID PATIO			DPT - DYNAMIC PENETRATIO • - VOID RATIO	ON TEST SAP SAPROLITIC SD SAND, SANDY	SDFT CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK, CAN BE EXCAVATED IN FRAGMENTS				THAN 0.1 FOOT PER 60 BLOWS.	
TATTERBERG LIMITS!	DESCRIPTION		F - FINE	SL SILT, SILTY	ST - SHELBY TUBE	FROM	CHIPS TO SEVERAL INCHES IN	SIZE BY MODERATE BLOWS OF A P.		STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
- SATURATED - USUALLY LIQUID; VERY WET, USUALLY (SAT.) FROM BELOW THE GROUND WATER TABLE			FOSS FOSSILIFEROUS SLI SLIGHTLY RS - ROCK FRAC FRACTURED, FRACTURES TOR - TRICONE REFUSAL RT - RECOMPACTED TRIAXIAL FRAGS FRAGMENTS W - MOISTURE CONTENT CBR - CALIFORNIA BEARING HI HIGHLY V - VERY RATIO		PIECES CAN BE BROKEN BY FINGER PRESSURE. VERY CAN BE CARVED WITH KNIFE, CAN BE EXCAVATED READILY WITH POINT OF PICK, PIECES 1 INCH			NE PICK PIECES 1 INCH	STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY	
LL_ LIQUID LIMIT		SOFT OR MOR			SOFT OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY			TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.		
PLASTIC RANGE <		D; REQUIRES DRYING TO		PMENT USED ON SUBJECT P		FINGER	RE SPACING	BEDDI	VIC.	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
(PI) PL PLASTIC LIMIT _	ATTAIN U	PTIMUM MOISTURE			1	TERM	SPACING SPACING	TERM	THICKNESS	DENDU MARY DI 47
	- MDIST - (M) SOLID: A	IT OR NEAR OPTIMUM MOISTURE	DRILL UNITS:	ADVANCING TOOLS:	HAMMER TYPE:	VERY WIDE	MORE THAN 10 FEET	VERY THICKLY BEDDED	> 4 FEET	BENCH MARK: BL-43
OM OPTIMUM MOISTURE SL SHRINKAGE LIMIT	- MDIS1 - (M) 20LIDEH	II ON NEMN OFTIMOM MOISTONE	MOBILE B	CLAY BITS	X AUTOMATIC MANUAL	WIDE MODERATELY CLOS	3 TO 10 FEET E 1 TO 3 FEET	THICKLY BEDDED THINLY BEDDED	1.5 - 4 FEET 0.16 - 1.5 FEET	ELEVATION: 35.4 FT.
	REQUIRES	ADDITIONAL WATER TO		6 CONTINUOUS FLIGHT AUGER	CORE SIZE:	CLOSE	9.16 TO 1 FEET	VERY THINLY BEDDED	0.03 - 0.16 FEET 0.008 - 0.03 FEET	NOTES:
		PTIMUM MOISTURE	BK-5I	8' HOLLOW AUGERS	-в	VERY CLOSE	LESS THAN 0.16 FEET	THICKLY LAMINATED THINLY LAMINATED	< 0.008 FEET	UNDIVIDED C.P. = UNDIVIDED COASTAL PLAIN
	PLASTICITY		- CME~45C	HARD FACED FINGER BITS				DURATION		
	PLASTICITY INDEX (PI)	DRY STRENGTH		TUNGCARBIDE INSERTS		FOR SEDIMENTARY ROCE	KS, INDURATION IS THE HARDER	NING OF THE MATERIAL BY CEMENTI	NG, HEAT, PRESSURE, ETC.	
NONPLASTIC	Ø-5	VERY LOW SLIGHT	X CME-550	X CASING W/ ADVANCER	H	FRIABLE		WITH FINGER FREES NUMEROUS GR		
LOW PLASTICITY MED. PLASTICITY	6-15 16-25	MEDIUM	PORTABLE HOIST	X TRICONE 2 15/6 STEEL TEETH	HAND TOOLS:					
HIGH PLASTICITY	26 DR MDRE	H1GH	I I LOVINDEE UNISI	· · · · · ·	POST HOLE DIGGER	MODERATELY		CAN BE SEPARATED FROM SAMPLE EASILY WHEN HIT WITH HAMMER.	WILL SIEEF LKORF!	
	COLOR			TRICONE TUNGCARB.	HAND AUGER SOUNDING ROB	INDURATED	GRAINS	ARE DIFFICULT TO SEPARATE WITH	STEEL PROBE;	
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).				CORE BIT	VANE SHEAR TEST		DIFFICU	DIFFICULT TO BREAK WITH HAMMER.		
MODIFIERS SUCH AS LIGHT, DARK	C, STREAKED, ETC. ARE USED TO DESC	CRIBE APPEARANCE.				EXTREMELY		HAMMER BLOWS REQUIRED TO BREAK BREAKS ACROSS GRAINS.	SAMPLE;	
L			<u>I </u>					· · · · · · · · · · · · · · · · · · ·		

PROJECT REFERENCE NO.

R-25I4B

SHEET NO.

2 OF 6

