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CONTRACT: ID: R-2514D

NOTE: SEE SHEET 2A FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

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-Y3A-	13+72 TO 15+10	6,29	48
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-L-	432+00 TO 433+00	76
-L-	438+00 TO 440+00	77-78
-L-	444+00 TO 445+50	79
-L-	446+50 TO 450+00	80-81
-L-	472+50 TO 475+00	82-83
-L-	503+00 TO 506+50	84-85
-L-	530+50 TO 532+00	86-87
-L-	561+50 TO 563+00	88-89
-L-	605+50	90
-Y3-	19+50 to 23+50	91-92
-Y3-	31+00 to 35+00	93-94
-Y3A-	14+23 TO 14+60	95
-Y3B-	10+25 TO 16+25	96-99
-Y3LPD-	15+00 TO 15+50	100
-Y3RPA-	16+50 TO 19+00	101-102
-Y3RPA-	26+00 TO 30+00	103-104
-Y3RPD-	16+50 TO 19+50	105-106
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APPENDIX 1	SHEET
CPT LOGS	1-104

DRAWN BY: *C.P. TURNER*

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. *34442.1.1 (R-2514D)* F.A. PROJ. _____

COUNTY *JONES /CRAVEN*

PROJECT DESCRIPTION *US 17 FROM SOUTH OF NC 58 TO THE NEW BERN BYPASS*

INVENTORY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2514D	1	122

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34442.1.1		P.E.
		R/W & UTIL.

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 VARIOUS FIELD BORING LOGS, ROCK CORES, AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

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PERSONNEL

J.R. SWARTLEY

CATLIN PERSONNEL

S&ME PERSONNEL

INVESTIGATED BY *T.C. BOTTOMS*

CHECKED BY *D.N. ARGENBRIGHT*

SUBMITTED BY *D.N. ARGENBRIGHT*

DATE *JULY 2013*

NORTH CAROLINA LICENSED SEAL 22402 GEOLOGIST TYLER C. BOTTOMS

7/10/13

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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.

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	2 OF 122

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

SOIL IS CONSIDERED TO BE THE UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER, AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO STANDARD PENETRATION TEST (AASHTO T206, ASTM D-1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. EXAMPLE:

VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
% PASSING # 10 # 40 # 200	50 MX 30 MX 15 MX		50 MX 25 MX	51 MN 10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN	GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
LIQUID LIMIT	6 MX		NP	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
PLASTIC INDEX				10 MX	10 MX	11 MN	11 MN	10 MX	10 MX	11 MN	11 MN			
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	No MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS		FAIR TO POOR	POOR	UNSUITABLE
GEN. RATING AS A SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR						

PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE	<4	N/A
	LOOSE	4 TO 10	
	MEDIUM DENSE	10 TO 30	
	DENSE	30 TO 50	
	VERY DENSE	>50	
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT	<2	<0.25
	SOFT	2 TO 4	0.25 TO 0.50
	MEDIUM STIFF	4 TO 8	0.5 TO 1.0
	STIFF	8 TO 15	1 TO 2
	VERY STIFF	15 TO 30	2 TO 4
	HARD	>30	>4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.00	0.42	0.25	0.075	0.053

BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE. SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE	MM	305	75	2.0	0.25	0.05	0.005
	IN.	12	3				

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION
	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
LL — LIQUID LIMIT		
PLASTIC RANGE (PI)	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT		
OM — OPTIMUM MOISTURE	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
SL — SHRINKAGE LIMIT		
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NONPLASTIC	0-5	VERY LOW
LOW PLASTICITY	6-15	SLIGHT
MED. PLASTICITY	16-25	MEDIUM
HIGH PLASTICITY	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY), MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORM - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO POORLY GRADED)
GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LIQUID LIMIT LESS THAN 31
MODERATELY COMPRESSIBLE	LIQUID LIMIT EQUAL TO 31-50
HIGHLY COMPRESSIBLE	LIQUID LIMIT GREATER THAN 50

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS	OTHER MATERIAL	
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%	TRACE	1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE	10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME	20 - 35%
HIGHLY ORGANIC	>10%	>20%	HIGHLY	35% AND ABOVE

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
- STATIC WATER LEVEL AFTER 24 HOURS
- PW — PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA
- SPRING OR SEEP

MISCELLANEOUS SYMBOLS

- ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION
- SOIL SYMBOL
- ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT
- INFERRED SOIL BOUNDARY
- INFERRED ROCK LINE
- ALLUVIAL SOIL BOUNDARY
- 25/025 — DIP & DIP DIRECTION OF ROCK STRUCTURES
- SPT / DPT / DMT / VST / PMT — TEST BORING
- AUGER BORING
- CORE BORING
- MW — MONITORING WELL
- PIEZOMETER INSTALLATION
- SLOPE INDICATOR INSTALLATION
- CONE PENETROMETER TEST
- SOUNDING ROD
- TEST BORING W/ CORE
- SPT N-VALUE
- REF — SPT REFUSAL

ABBREVIATIONS

AR - AUGER REFUSAL
BT - BORING TERMINATED
CL. - CLAY
CPT - CONE PENETRATION TEST
CSE. - COARSE
DMT - DILATOMETER TEST
DPT - DYNAMIC PENETRATION TEST
e - VOID RATIO
F - FINE
FOSS. - FOSSILIFEROUS
FRAC. - FRACTURED, FRACTURES
FRAGS. - FRAGMENTS
HI. - HIGHLY
MED. - MEDIUM
MICA. - MICACEOUS
MOD. - MODERATELY
NP - NON PLASTIC
ORG. - ORGANIC
PMT - PRESSUREMETER TEST
SAP. - SAPROLITIC
SD. - SAND, SANDY
SL. - SILT, SILTY
SLI. - SLIGHTLY
TCR - TRICONE REFUSAL
w - MOISTURE CONTENT
V - VERY
VST - VANE SHEAR TEST
WEA. - WEATHERED
γ - UNIT WEIGHT
γ_d - DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS

S - BULK
SS - SPLIT SPOON
ST - SHELBY TUBE
RS - ROCK
RT - RECOMPACTED TRIAXIAL
CBR - CALIFORNIA BEARING RATIO

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- [ ] MOBILE B-___
- [ ] BK-51
- [ ] CME-45C
- [X] CME-550
- [ ] PORTABLE HOIST
- [ ] _____
- [ ] _____

ADVANCING TOOLS:
- [ ] CLAY BITS
- [ ] 6" CONTINUOUS FLIGHT AUGER
- [ ] 8" HOLLOW AUGERS
- [ ] HARD FACED FINGER BITS
- [ ] TUNG.-CARBIDE INSERTS
- [X] CASING [ ] W/ ADVANCER
- [X] TRICONE 2 15/16 " STEEL TEETH
- [ ] TRICONE _____ " TUNG.-CARB.
- [ ] CORE BIT
- [ ] _____

HAMMER TYPE:
- [X] AUTOMATIC [ ] MANUAL

CORE SIZE:
- [ ] -B_____
- [ ] -N_____
- [ ] -H_____

HAND TOOLS:
- [ ] POST HOLE DIGGER
- [ ] HAND AUGER
- [ ] SOUNDING ROD
- [ ] VANE SHEAR TEST
- [ ] _____

ROCK DESCRIPTION

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. 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 OF WEATHERED ROCK.
ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:

WEATHERED ROCK (WR)	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN 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 WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES 'CLUNK' SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, YIELDS SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT THE MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE SUCH THAT ONLY MINOR VESTIGES OF THE ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, YIELDS SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FEET
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	> 4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF THE MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.

AQUIFER - A WATER BEARING FORMATION OR STRATA.

ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.

ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.

ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.

CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.

COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.

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.

DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.

DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.

DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.

FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.

FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.

FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.

FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.

FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.

JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.

LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.

LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.

MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN 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 INTERVENING IMPERVIOUS STRATUM.

RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.

ROCK QUALITY DESIGNATION (RQD) - 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 EXPRESSED AS A PERCENTAGE.

SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.

SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.

SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.

STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS IN OR BPF) OF 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 EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.

STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.

STRATA ROCK QUALITY DESIGNATION (SRQD) - A MEASURE OF ROCK QUALITY DESCRIBED 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.

TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.

BENCH MARK:

ELEVATION: FT.

NOTES:
VST = VANE SHEER TEST

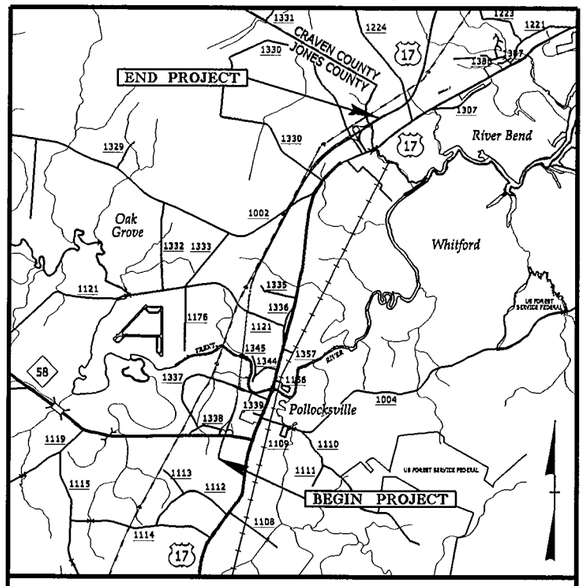
APPROXIMATE LIMIT OF ORGANIC SOILS

REVISED 09/23/09

09/08/99

TIP PROJECT: R-2514D

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

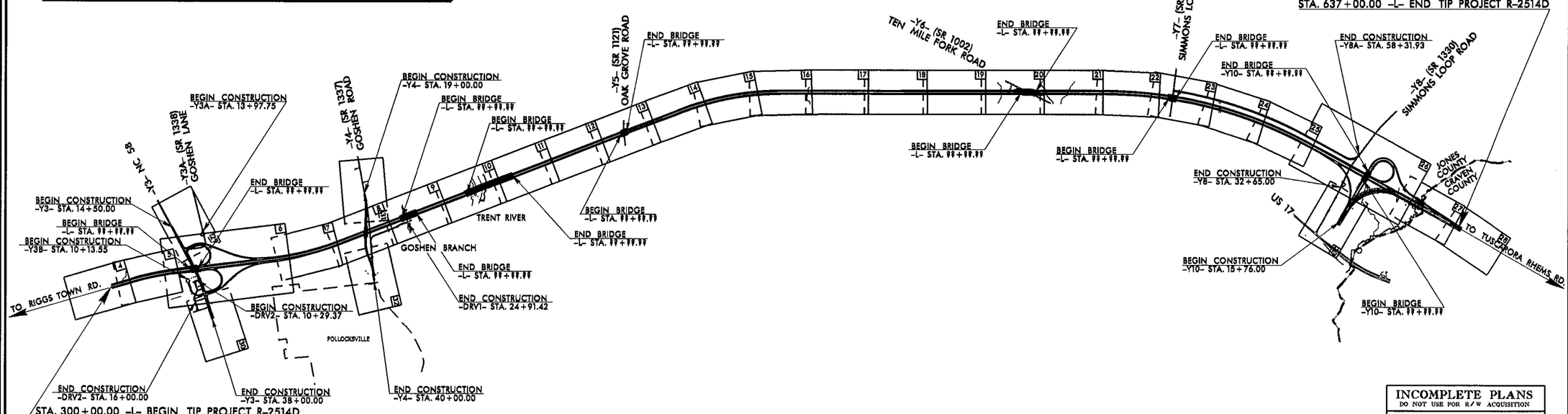
JONES & CRAVEN COUNTY

LOCATION: US 17 FROM SOUTH OF NC 58 TO THE NEW BERN BYPASS

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2514D	2A	122
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
34442.1.1		PE	

NAD 83/
NSRS 2007



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO LIMITS ESTABLISHED BY METHOD .

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:

GRAPHIC SCALES

PLANS: 50 25 0 50 100
PROFILE (HORIZONTAL): 50 25 0 50 100
PROFILE (VERTICAL): 10 5 0 10 20

DESIGN DATA

ADT 2015 = 10,600
ADT 2035 = 15,700
DHV = 7 %
D = 65 %
T = 7 % *
V = 70 MPH
* TTST=4 % DUAL =3 %
FUNC CLASS = FREEWAY
STATEWIDE TIER

PROJECT LENGTH

LENGTH OF ROADWAY, TIP PROJECT R-2514D = 0.00 mi.
LENGTH OF STRUCTURES, TIP PROJECT R-2514D = 0.00 mi.
TOTAL LENGTH OF TIP PROJECT R-2514D = 6.383 mi.

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 15, 2013

LETTING DATE: MARCH 17, 2015

JAMES A. SPEER, P.E.
PROJECT ENGINEER

DANIEL W. GARDNER, JR., P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P.E.
STATE HIGHWAY DESIGN ENGINEER

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XT GEOS2514D

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 27, 2012

STATE PROJECT:	34442.1.1 (R-2514D)
F.A. PROJECT:	N/A
COUNTY:	Jones/ Craven
DESCRIPTION:	US 17 from South of NC 58 to the New Bern Bypass
SUBJECT:	Geotechnical Inventory

Project Description

This project begins approximately 2000 feet west of NC 58 and extends generally northeast about 6.3 miles to just east of the Trent River. This project terminates at the existing US 17 Bypass (R-2301A). This geotechnical investigation was confined to the areas of proposed construction.

Fieldwork was conducted from November 2011 through June 2012. Standard Penetration Test borings were advanced with a CME 550 drill machine with an automatic hammer. Cone Penetration Test borings were completed with a 10 ton digital subtraction cone mounted on an ATV. Hand auger borings were also completed. Representative soil samples were collected for visual classification in the field and for laboratory analysis by the Materials and Tests Unit.

The following alignments were investigated. Subsurface profiles and selected cross sections of these alignments are included in this report.

Line	Station(±)
-L-	300+00 to 637+00
-Y3-	14+50 to 38+00
-Y3A-	13+72 to 15+10
-Y3B-	10+00 to 16+75
-Y3RPA-	10+00 to 30+99
-Y3LPA-	10+00 to 22+44
-Y3RPD-	10+00 to 27+56
-Y3LPD-	10+00 to 20+92
-Y4-	19+00 to 40+00
-Y5-	11+13 to 12+93
-Y6-	13+90 to 18+28
-Y8-	31+21 to 32+65
-Y8A-	10+00 to 58+31
-Y10-	15+75 to 30+00
-Y10RPA-	10+00 to 38+02
-Y10LPA-	10+00 to 24+13
-Y10RPC-	10+00 to 25+41
-DRV1-	10+00 to 13+47
-DRV2-	10+00 to 16+00

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
1589 MAIL SERVICE CENTER
RALEIGH NC 27699-1589

TELEPHONE: 919-250-4088
FAX: 919-250-4237

WEBSITE: WWW.NCDOT.ORG/DOH

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC

Areas of Special Geotechnical Interest

1) The following sections contain cohesive soils which have the potential to cause embankment/subgrade stability and/or long term settlement problems.

Line	Station(±)
-L-	300+00 to 341+00
-L-	364+26 to 369+88
-L-	399+21 to 637+00
-Y3-	14+50 to 38+00
-Y3A-	13+72 to 15+10
-Y3B-	10+00 to 16+75
-Y3RPA-	10+00 to 30+99
-Y3LPA-	10+00 to 22+44
-Y3RPD-	10+00 to 27+56
-Y3LPD-	10+00 to 20+92
-Y4-	31+78 to 40+00
-Y5-	11+13 to 12+93
-Y6-	13+90 to 18+28
-Y8-	31+21 to 32+65
-Y8A-	10+00 to 58+31
-Y10-	15+75 to 30+00
-Y10RPA-	10+00 to 38+02
-Y10LPA-	10+00 to 24+13
-Y10RPC-	10+00 to 25+41
-DRV1-	10+00 to 13+47
-DRV2-	10+00 to 16+00

2) The following sections contain organic soils which have the potential to cause embankment/subgrade stability and/or long term settlement problems.

Line	Station(±)
-L-	329+28 to 331+73
-L-	428+52 to 430+27
-L-	432+25 to 432+75
-L-	438+28 to 439+62
-L-	444+25 to 445+25
-L-	472+72 to 474+75
-L-	503+25 to 506+27
-L-	530+75 to 531+80
-L-	561+75 to 563+13
-Y3RPA-	16+55 to 18+63
-Y3RPD-	16+52 to 19+55
-Y8A-	10+82 to 13+75
-Y10-	28+25 to 30+00
-Y10RPA-	29+25 to 30+50
-Y10RPA-	36+38 to 37+60
-Y10LPA-	16+75 to 17+80
-Y10LPA-	22+70 to 23+60

3) The entire project was found to exhibit seasonal high ground water.

4) The following water wells were encountered within the proposed right of way limits.

Line	Station(±)	Offset
-Y10LPA-	20+72	3' LT
-Y10RPC-	15+33	3' RT

Physiography and Geology

This project corridor is located within the Coastal Plain Physiographic Province. Topography along the project is nearly flat to gently sloping. Natural ground elevations range from 15± to 54± feet above sea level.

Surficial soils in this area are generally classified as undivided coastal plain sediments and are underlain by the Belgrade and River Bend formations.

Sheet 3A

Ground Water

Ground water data was collected during times of below normal to normal precipitation. Ground water elevations measured during the months of November and December of 2011 were abnormally low due to the region suffering from drought conditions. Selected borings were re-drilled to collect additional ground water data. Ground water elevations ranged from 0± to 35± feet above sea level.

Soils

Soils within this project area have been divided into four categories; roadway embankment, undivided coastal plain, alluvial, and formational.

Soils identified as roadway embankment are comprised of 1± to 19± feet of loose to dense sand (A-2-4, A-3), 1± to 3± feet of medium stiff sandy silt (A-4) and 1± to 2± feet of very stiff sandy clay (A-6). These soils were encountered along the existing US 17 Bypass and associated intersecting roads along the project.

Soils classified as undivided coastal plain are comprised of 1± to 22± feet of very loose to dense sand, clayey sand, sand with trace to little organic material, and muck (A-2-5, A-2-6, A-2-4, A-3, A-1-b), 1± to 7± feet of very soft to very stiff sandy and clayey silt (A-4) and 1± to 19± feet of very soft to very stiff sandy and silty clay (A-6, A-7-6). Organic samples collected within the granular soils contained 2% to 20% organic matter. Moisture samples collected within the cohesive soils ranged from 15% to 110%.

Soils classified as alluvial are comprised of 1± to 11± feet of very soft to very stiff clay with little to moderate organic material and muck. Organic samples collected within this unit contained 3% to 20% organic matter with shear strengths ranging from 167 psf to 2547 psf.

Soils identified as formational belong to the Belgrade and River Bend formations. The Belgrade Formation consists of loose to dense sand and soft silt with shell fragments. The River Bend Formation consists of loose to very dense sand and limestone.

Undisturbed Samples

Undisturbed thin wall Shelby tube samples were collected at the following locations and submitted for testing.

Sample No.	Station	Depth	Test
ST-1	-L- 300+00 CL	10.0'-12.0'	Consolidation
ST-2	-L- 325+00 CL	10.0'-12.0'	Consolidation/ Triaxial
ST-3	-Y3LPA- 15+00 CL	5.0'-7.0'	Consolidation/ Triaxial
ST-4	-L- 525+00 40' RT	5.0'-7.0'	Consolidation/ Triaxial
ST-5	-L- 525+00 40' RT	10.0'-12.0'	Consolidation/ Triaxial
ST-6	-Y3LPD- 12+50 CL	6.0'-8.0'	Consolidation/ Triaxial
ST-7	-L- 440+00 CL	5.0'-7.0'	Consolidation/ Triaxial
ST-8	-L- 440+00 CL	15.0'-17.0'	Consolidation/ Triaxial
ST-9	-L- 429+40 CL	5.0'-7.0'	Consolidation/ Triaxial
ST-10	-Y10- 30+00 CL	5.0'-6.2'	Consolidation/ Triaxial
ST-11	-Y10- 24+00 20' LT	5.0'-7.0'	Consolidation/ Triaxial
ST-12	-Y10RPA- 37+00 CL	5.0'-7.0'	Consolidation/ Triaxial
ST-13	-Y10RPA- 37+00 CL	15.0'-17.0'	Consolidation/ Triaxial
ST-14	-L- 550+00 CL	5.0'-6.0'	Consolidation
ST-15	-L- 565+00 CL	5.0'-6.0'	Consolidation/ Triaxial
ST-16	-Y3RPD- 18+00 50' LT	0.0'-2.0'	Consolidation/ Triaxial

Respectfully Submitted,

Tyler C. Bottoms, L.G.
Project Engineering Geologist

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

REVISIONS

8/17/99

295

300

10' SOIL

10' PS
24'
.025
4' PS
46' MED.
4' PS
24'
.025
10' PS

N 11° 39' 27.2" E

END PROJECT R-2514C
BEGIN PROJECT R-2514D
-L- STA. 300+00.00

MATCHLINE -L- STA. 303+00.00 SEE SHEET 5

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

MATCHLINE -L- STA. 303+00.00 SEE SHEET 4

MATCHLINE -L- STA. 315+00.00 SEE SHEET 6

-L- TS Sta. 303+88.75

-L- SC Sta. 305+38.75

305

310

315

360' TAPER

1350' FULL LANE

+56.61

+85.05

CAT-1

8:1

GRAU 350

10' PS

12' PS

4' PS

24'

36'

46' MED.

N 39° 27' 27.2" E

-L-	
PIs Sta 304+88.75	PI Sta 310+63.74
θs = 0° 33' 43.5"	Δ = 7° 51' 24.5" (RT)
Ls = 150.00'	D = 0° 44' 58.0"
LT = 100.00'	L = 1,048.34'
ST = 50.00'	T = 524.99'
	R = 7,645.00'
	SE = .03
	RO = 150'

REVISIONS

8/17/99

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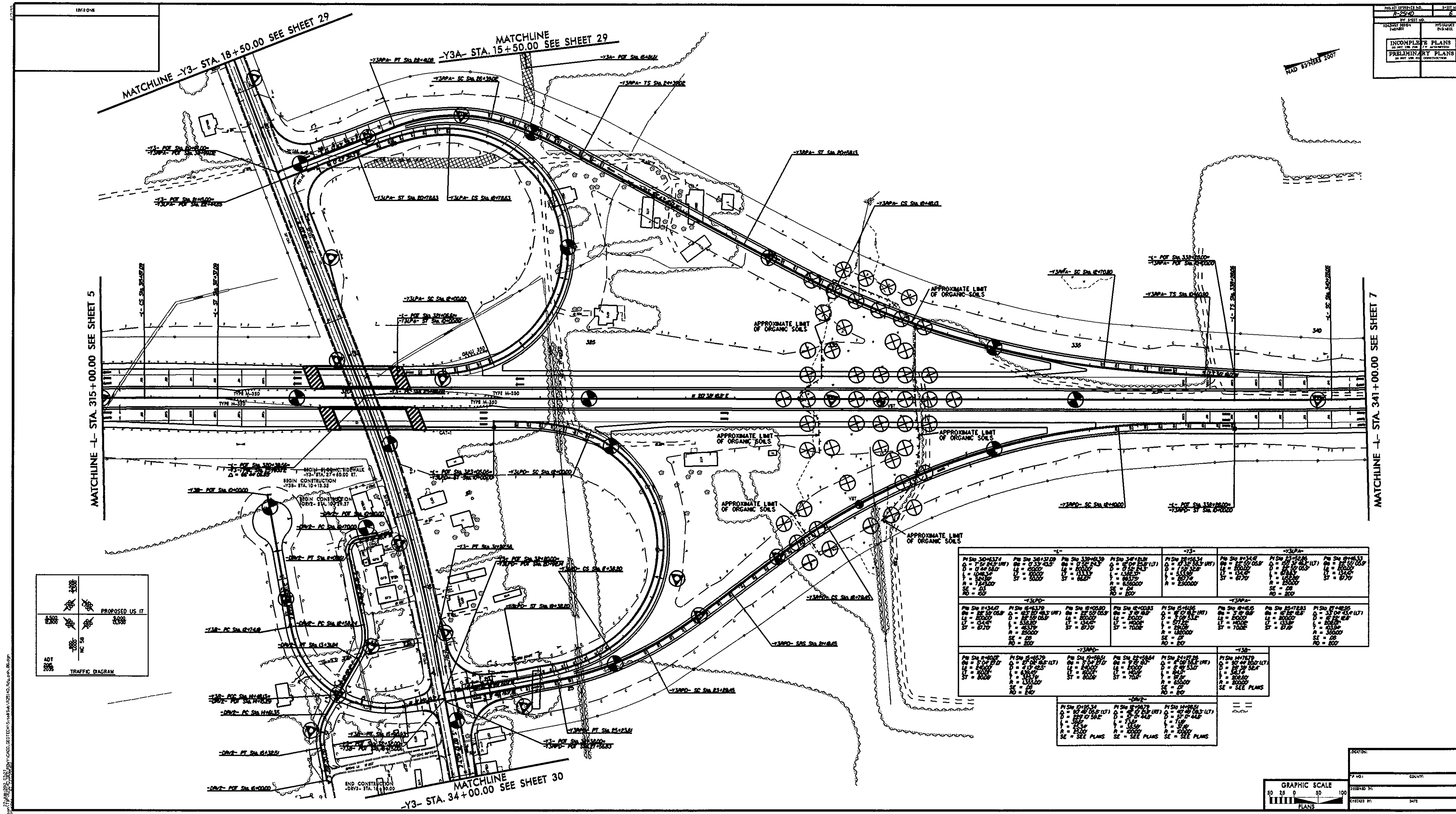

-L-			
PI Sta 310+63.74 Δ = 7°51' 24.5" (RT) D = 0°44' 58.0" L = 1,048.34' T = 524.99' R = 7,643.00' SE = .03 RO = 150'	PIs Sta 318+37.08 θs = 0°33' 43.5" Ls = 150.00' LT = 100.00' ST = 50.00'	PIs Sta 339+61.39 θs = 0°52' 24.3" Ls = 200.00' LT = 133.33' ST = 66.67'	PI Sta 341+21.81 Δ = 12°04' 25.8" (LT) D = 0°52' 24.3" L = 1,382.37' T = 693.75' R = 6,560.00' SE = .04 RO = 200'

-Y3-
PI Sta 28+56.34 Δ = 10°32' 58.3" (RT) D = 1°58' 32.8" L = 533.98' T = 267.74' R = 2,900.00'

-Y3LPA-		
PIs Sta 11+34.47 θs = 22°55' 05.9" Ls = 200.00' LT = 134.41' ST = 67.70'	PI Sta 23+52.86 Δ = 165°31' 46.2" (LT) D = 22°55' 05.9" L = 678.83' T = 1,152.86' R = 250.00' SE = .08 RO = 200'	PIs Sta 19+48.33 θs = 22°55' 05.9" Ls = 200.00' LT = 134.41' ST = 67.70'

-Y3LPD-		
PIs Sta 11+34.47 θs = 22°55' 05.9" Ls = 200.00' LT = 134.41' ST = 67.70'	PI Sta 15+63.79 Δ = 123°20' 48.3" (RT) D = 22°55' 05.9" L = 538.20' T = 463.79' R = 250.00' SE = .08 RO = 200'	PIs Sta 16+05.80 θs = 22°55' 05.9" Ls = 200.00' LT = 134.41' ST = 67.70'

-Y3RPA-				
PIs Sta 12+00.93 θs = 3°10' 10.9" Ls = 210.00' LT = 140.02' ST = 70.02'	PI Sta 15+61.96 Δ = 18°10' 15.2" (RT) D = 3°08' 53.2" L = 577.22' T = 291.08' R = 1,820.00' SE = .07 RO = 210'	PIs Sta 18+16.15 θs = 3°10' 10.9" Ls = 210.00' LT = 140.02' ST = 70.02'	PIs Sta 25+72.93 θs = 16°22' 12.8" Ls = 200.00' LT = 133.91' ST = 67.19'	PI Sta 27+48.95 Δ = 33°04' 43.4" (LT) D = 16°22' 12.8" L = 202.01' T = 103.94' R = 350.00' SE = .06 RO = 200'

-Y3RPD-				
PIs Sta 11+60.07 θs = 5°04' 27.0" Ls = 240.00' LT = 160.01' ST = 80.06'	PI Sta 15+65.79 Δ = 27°08' 19.8" (LT) D = 4°13' 42.5" L = 639.45' T = 325.78' R = 1,355.00' SE = .06 RO = 240'	PIs Sta 19+59.51 θs = 5°04' 27.0" Ls = 240.00' LT = 160.01' ST = 80.06'	PIs Sta 22+59.84 θs = 9°27' 19.1" Ls = 210.00' LT = 140.19' ST = 70.11'	PI Sta 24+97.28 Δ = 11°06' 58.2" (RT) D = 8°48' 53.0" L = 126.11' T = 97.81' R = 650.00' SE = .07 RO = 210'

-Y3B-
PI Sta 14+76.79 Δ = 90°44' 20.0" (LT) D = 28°38' 52.4" L = 316.74' T = 202.60' R = 200.00' SE = SEE PLANS

-DRV2-		
PI Sta 10+95.34 Δ = 90°48' 05.8" (LT) D = 229°10' 59.2" L = 39.62' T = 25.34' R = 25.00' SE = SEE PLANS	PI Sta 12+06.79 Δ = 42°10' 23.9" (RT) D = 57°17' 44.8" L = 73.61' T = 38.56' R = 100.00' SE = SEE PLANS	PI Sta 14+06.51 Δ = 40°48' 09.3" (LT) D = 57°17' 44.8" L = 71.21' T = 37.18' R = 100.00' SE = SEE PLANS

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS — DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS — DO NOT USE FOR CONSTRUCTION

LOCATION:
TIP NO.: COUNTY:
DESIGNED BY:
CHECKED BY: DATE:

27-JUN-2012 07:27 R2514D_Rdy_psh_06.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

-L-
PI Sta 347+21.81
Δ = 12° 04' 25.6" (LT)
D = 0° 52' 24.3"
L = 1,382.37'
T = 693.75'
R = 6,560.00'
SE = .04
RO = 200'

MATCHLINE -L- STA. 341+00.00 SEE SHEET 6

MATCHLINE -L- STA. 354+00.00 SEE SHEET 8

345

350

10' PS

24'

04

4' PS

46' MED.

36'

580' FULL LANE

300' TAPER

SEE SHEET 36 FOR -L- PROFILE

REVISIONS

8/17/99

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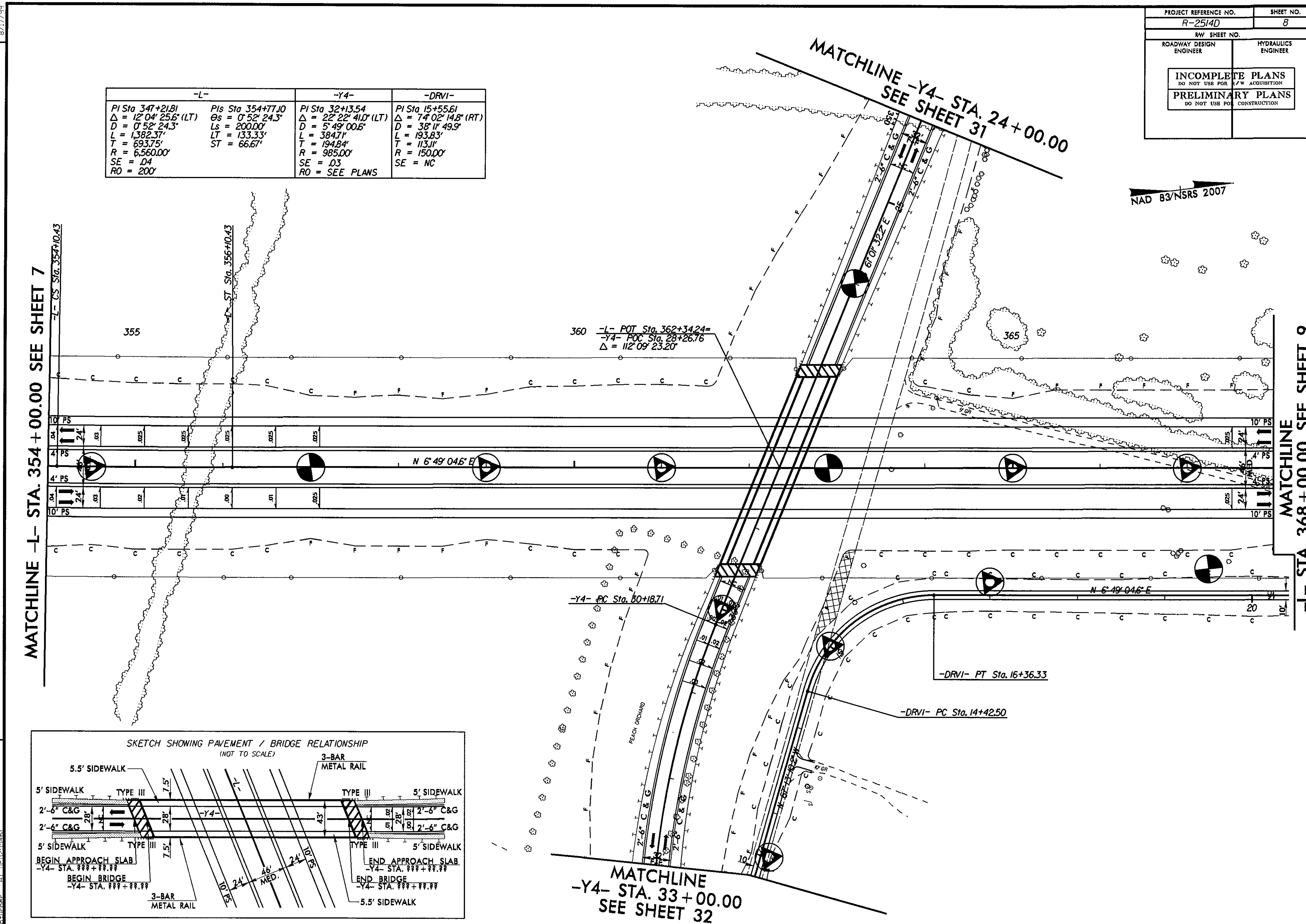
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-L-		-Y4-	-DRV1-
PI Sta 347+21.81	PIs Sta 354+77.10	PI Sta 32+13.54	PI Sta 15+55.61
Δ = 12° 04' 25.6" (LT)	θs = 0° 52' 24.3"	Δ = 22° 22' 41.0" (LT)	Δ = 74° 02' 14.8" (RT)
D = 0° 52' 24.3"	Ls = 200.00'	D = 5° 49' 00.6"	D = 38° 11' 49.9"
L = 1,382.37'	LT = 133.33'	L = 384.71'	L = 193.83'
T = 693.75'	ST = 66.67'	T = 194.84'	T = 113.11'
R = 6,560.00'		R = 985.00'	R = 150.00'
SE = .04		SE = .03	SE = NC
RO = 200'		RO = SEE PLANS	



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

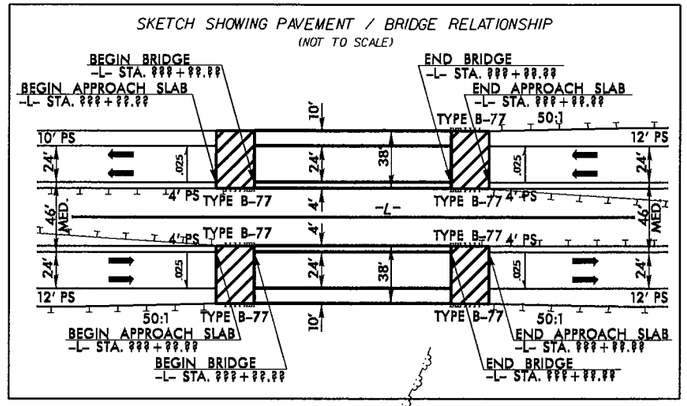
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

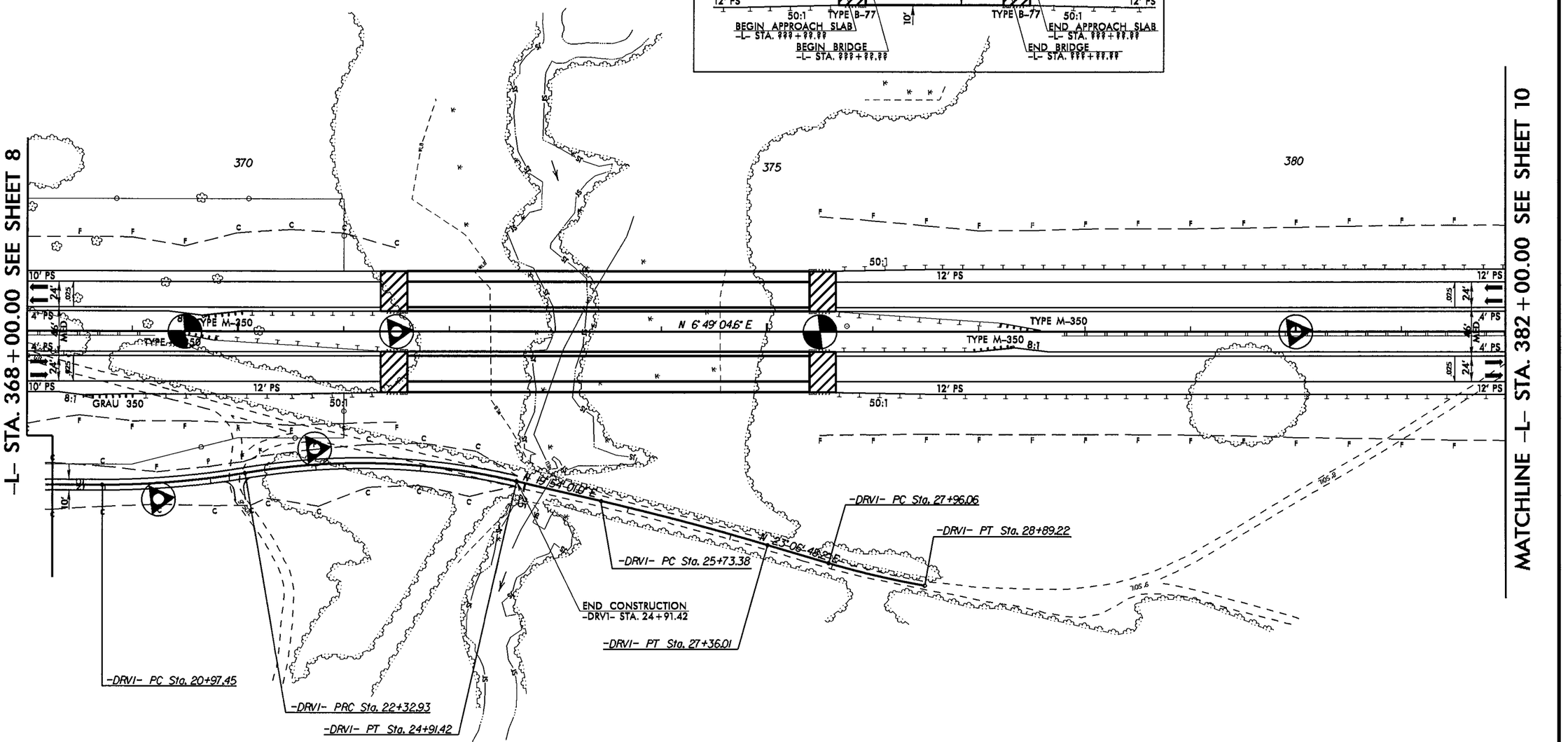
NAD 83/NSRS 2007

REVISIONS

8/17/99

SKETCH SHOWING PAVEMENT / BRIDGE RELATIONSHIP
(NOT TO SCALE)





-DRV1-			
PI Sta 21+65.35	PI Sta 23+63.90	PI Sta 26+54.72	PI Sta 28+42.69
Δ = 9° 42' 10.6" (LT)	Δ = 22° 47' 07.0" (RT)	Δ = 3° 12' 47.2" (RT)	Δ = 6° 16' 46.6" (LT)
D = 7° 09' 43.5"	D = 8° 48' 53.0"	D = 1° 58' 32.6"	D = 6° 44' 26.4"
L = 135.48'	L = 258.49'	L = 162.63'	L = 93.16'
T = 67.90'	T = 130.98'	T = 81.34'	T = 46.63'
R = 800.00'	R = 650.00'	R = 2,900.00'	R = 850.00'
SE = NC	SE = NC		

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

SKETCH SHOWING PAVEMENT / BRIDGE RELATIONSHIP
(NOT TO SCALE)

MATCHLINE -L- STA. 382+00.00 SEE SHEET 9

MATCHLINE -L- STA. 396+00.00 SEE SHEET 11

REVISIONS

8/17/99

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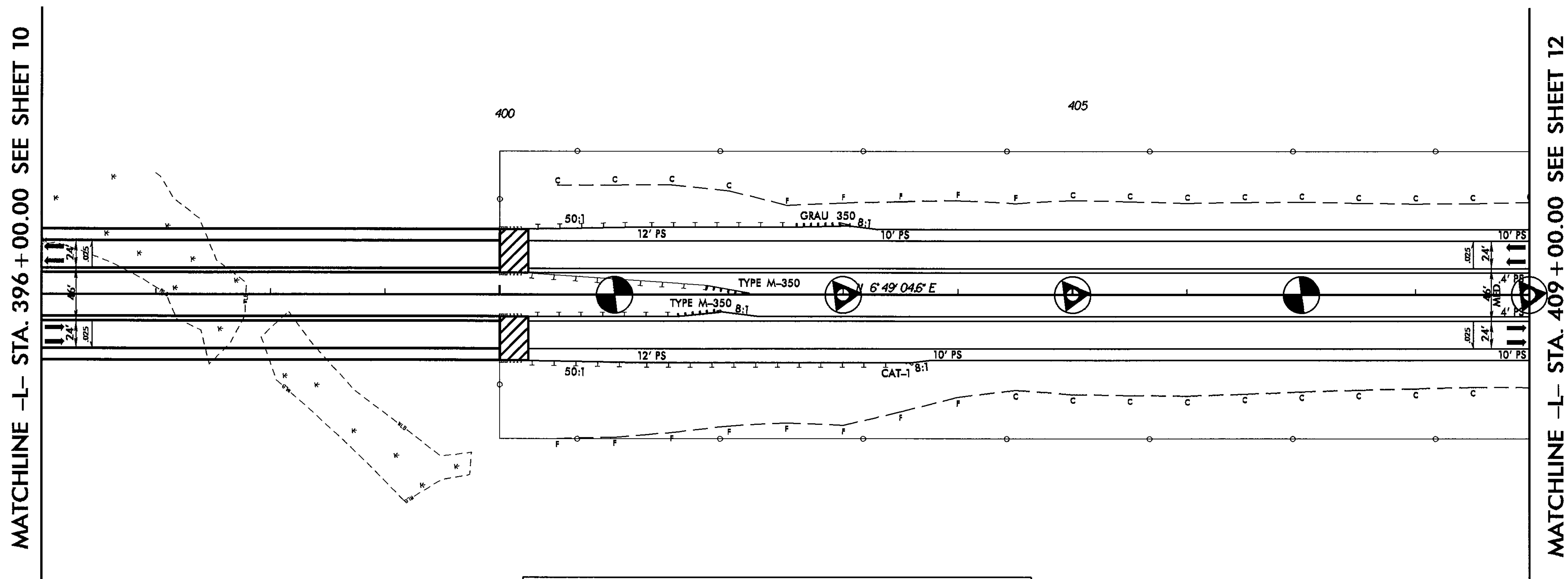
engineer

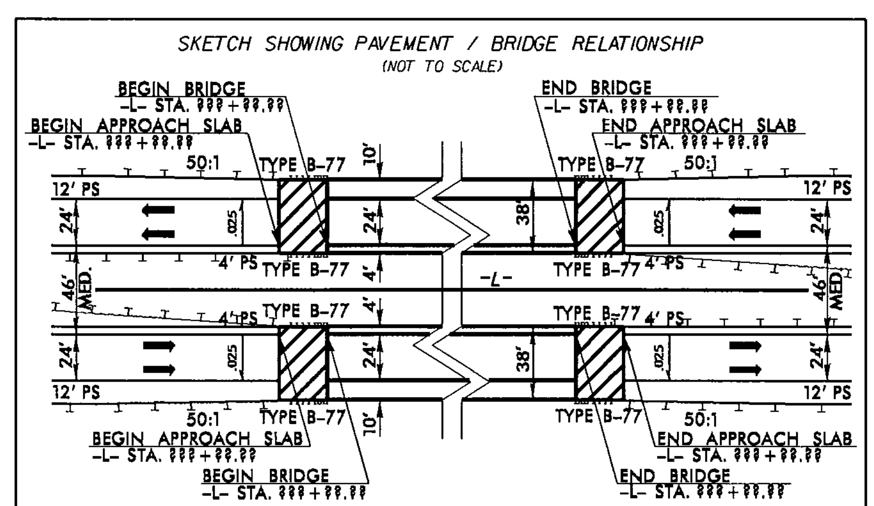
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007





REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

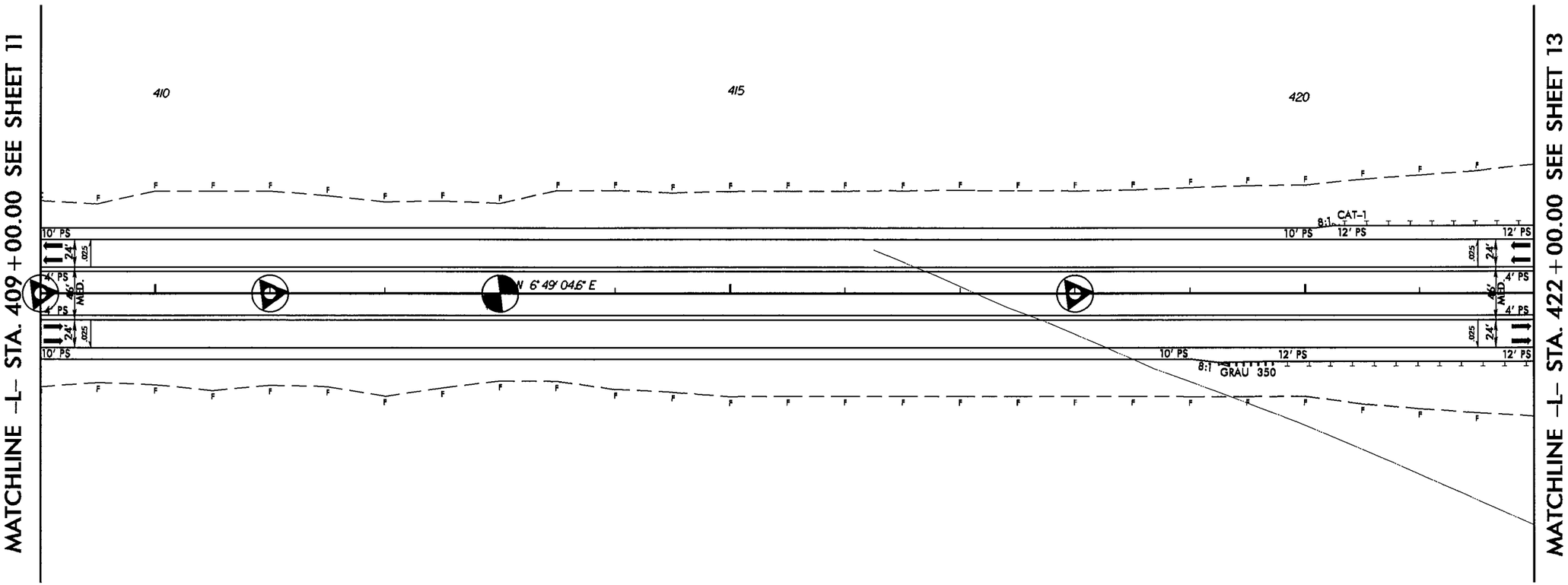
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

REVISIONS

8/17/99



SEE SHEET 38 FOR –L– PROFILE

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8/17/99

REVISIONS

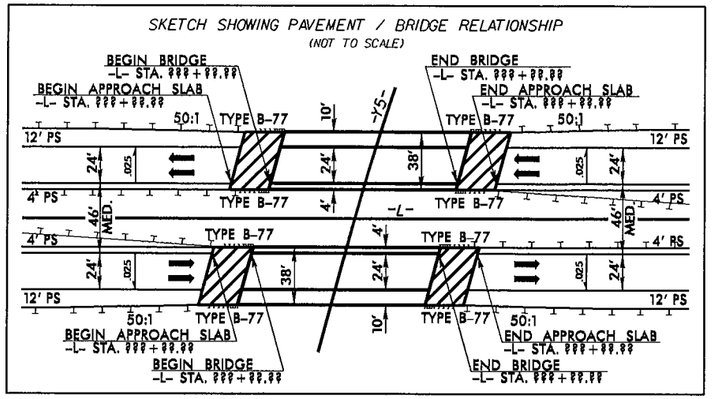
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

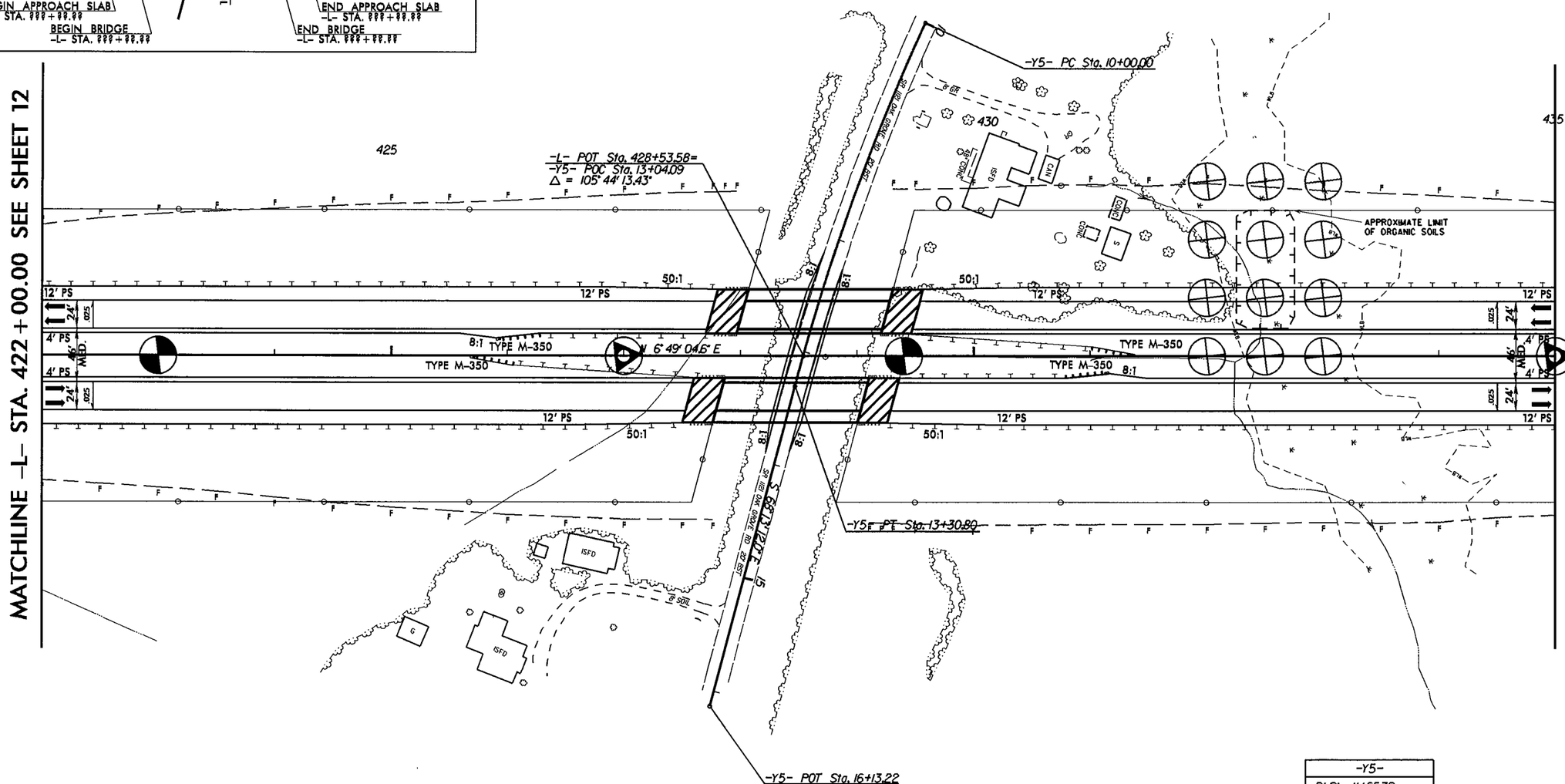
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

SKETCH SHOWING PAVEMENT / BRIDGE RELATIONSHIP
(NOT TO SCALE)





-Y5-
PI Sta 11+65.79
Δ = 9° 35' 48.1" (LT)
D = 2° 54' 03.8"
L = 330.80'
T = 165.79'
R = 1,975.00'

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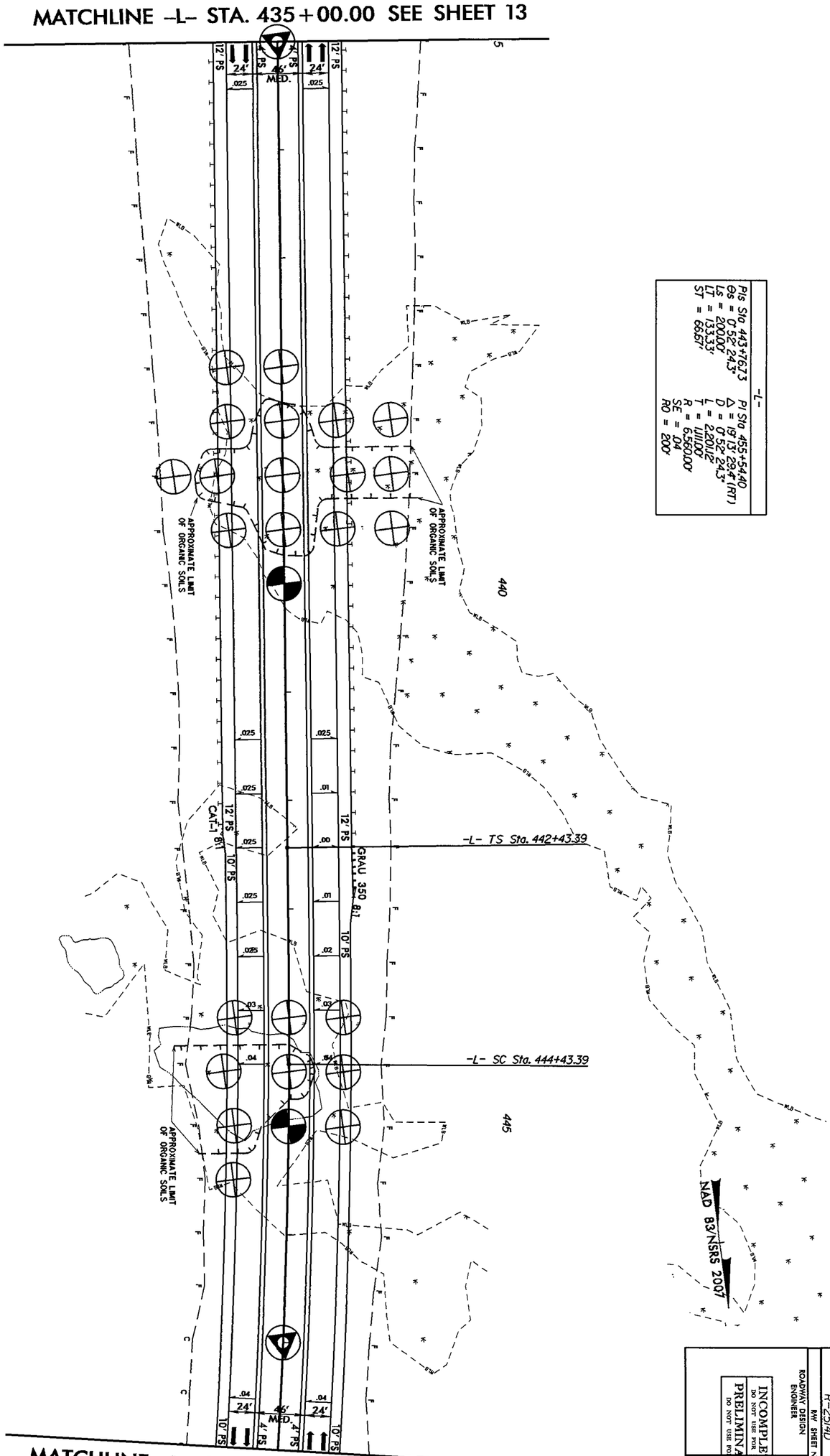
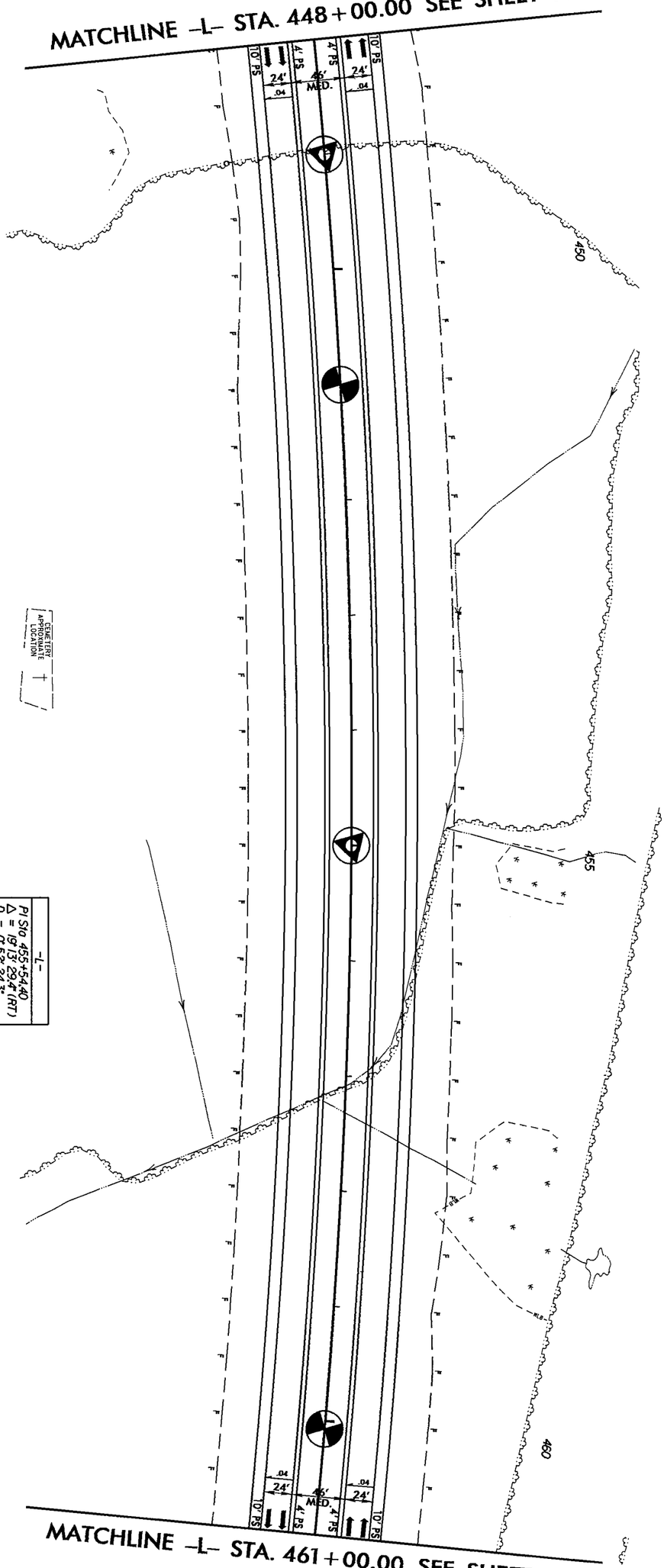
MATCHLINE –L– STA. 435+00.00 SEE SHEET 13



MATCHLINE –L– STA. 448+00.00 SEE SHEET 15

PROJECT REFERENCE NO. R-2514D
SHEET NO. 14
RW SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

MATCHLINE –L– STA. 448+00.00 SEE SHEET 14



–L–
PI Sta 455+54.40
Δ = 9° 13' 29.4" (RT)
D = 0° 52' 24.3"
L = 220.12'
T = 110.00'
R = 6560.00'
SE = .04
RD = 200'

NAD 83/NSRS 2007

MATCHLINE –L– STA. 461+00.00 SEE SHEET 16

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER

RW SHEET NO.

HYDRAULICS ENGINEER

PROJECT REFERENCE NO.
R-2514D

SHEET NO.
15

REVISIONS

MATCHLINE –L– STA. 461+00.00 SEE SHEET 15

–L–	
PI Sta 455+54.40	PIs Sta 467+11.18
Δ = 19°15'29.4" (RT)	θs = 07°52'24.3"
D = 07°52'24.3"	Ls = 200.00'
L = 220.12'	LT = 133.33'
T = 111.00'	ST = 66.67'
R = 6,560.00'	
SE = .04	
RO = 20%	

10' PS 4' PS 46' MED. 4' PS 10' PS
24' 24'
.04 .04

465

-L- CS Sta. 466+44.51

.04 .04
.03 .03
.025 .02
.025 .01
.025 .00
-L- ST Sta. 468+44.51
.025 .01
.025 .025

470

APPROXIMATE LIMIT OF ORGANIC SOILS

N 27°48'26"E

APPROXIMATE LIMIT OF ORGANIC SOILS

.025 .025
24' 24'
10' PS 4' PS 46' MED. 4' PS 10' PS

MATCHLINE –L– STA. 474+00.00 SEE SHEET 17

NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	
PROJECT REFERENCE NO.	R-2514D
SHEET NO.	16
RW SHEET NO.	

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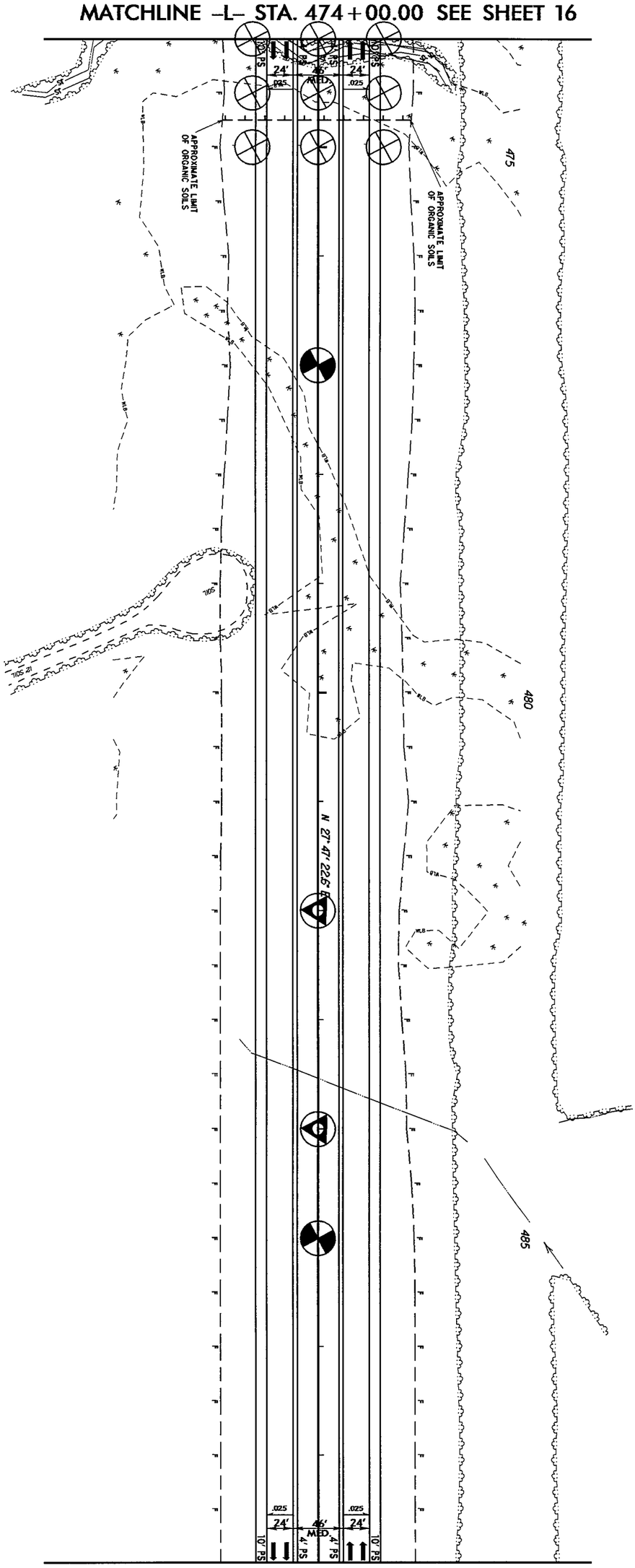
REVISIONS

MATCHLINE –L– STA. 474+00.00 SEE SHEET 16



MATCHLINE –L– STA. 488+00.00 SEE SHEET 18

NAD 83/NSRS 2007

PROJECT REFERENCE NO.	R-2514D
SHEET NO.	17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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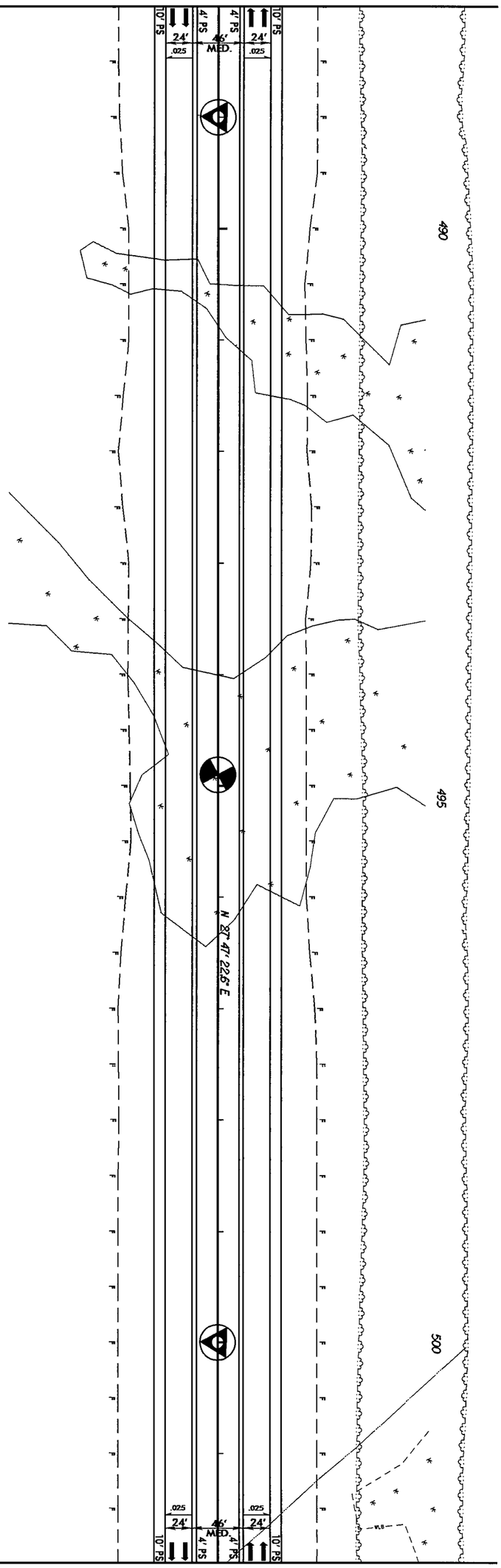
REVISIONS

MATCHLINE –L– STA. 488+00.00 SEE SHEET 17



MATCHLINE –L– STA. 502+00.00 SEE SHEET 19

NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER

BW SHEET NO.

HYDRAULICS ENGINEER

PROJECT REFERENCE NO.
R-2514D

SHEET NO.
18

REVISIONS

25-JUN-2012 16:19
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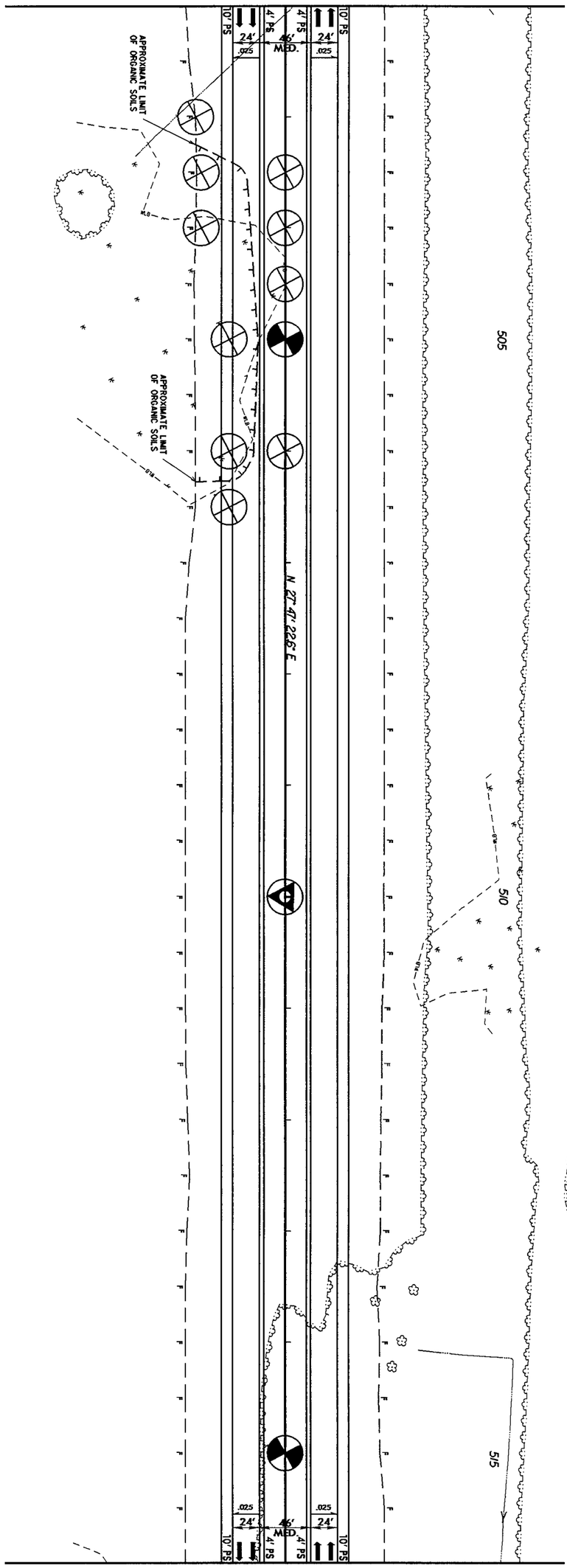
MATCHLINE –L– STA. 502+00.00 SEE SHEET 18



MATCHLINE –L– STA. 516+00.00 SEE SHEET 20

NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER
RW
HYDRAULICS ENGINEER

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	19

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

REVISIONS

8/17/99

MATCHLINE –L– STA. 516+00.00 SEE SHEET 19

MATCHLINE –L– STA. 530+00.00 SEE SHEET 21

-Y6- POT Sta. 10+00.00

-L- POT Sta. 526+71.12=
-Y6- POT Sta. 16+08.01
Δ = 26° 10' 59.7"

N 53° 58' 22.3" E

N 27° 41' 22.6" E

SR 1002 - 7TH MILE FORK RD BST

TYPE M-350

TYPE VI-350

GRAU 350

8:1

50:1

12' PS

10' PS

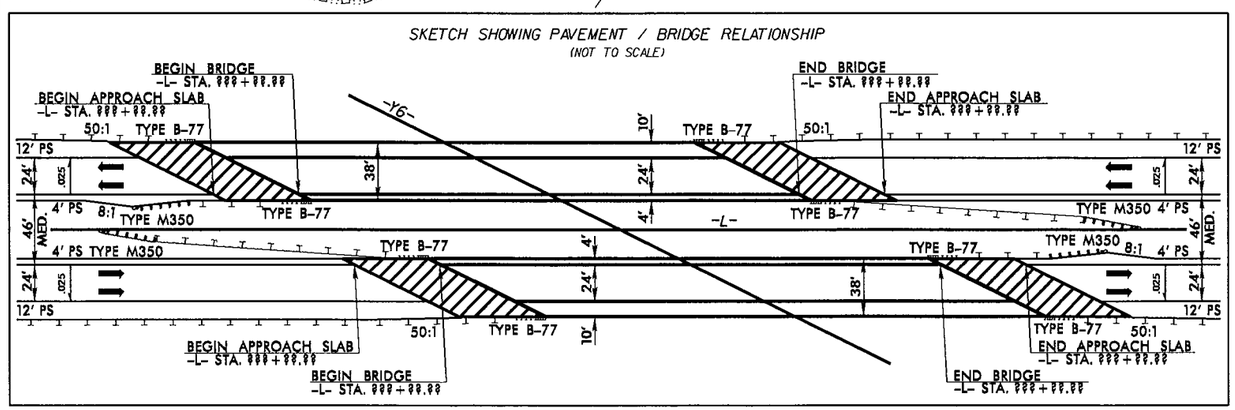
4' PS

24'

.025

46' MED.

SKETCH SHOWING PAVEMENT / BRIDGE RELATIONSHIP
(NOT TO SCALE)



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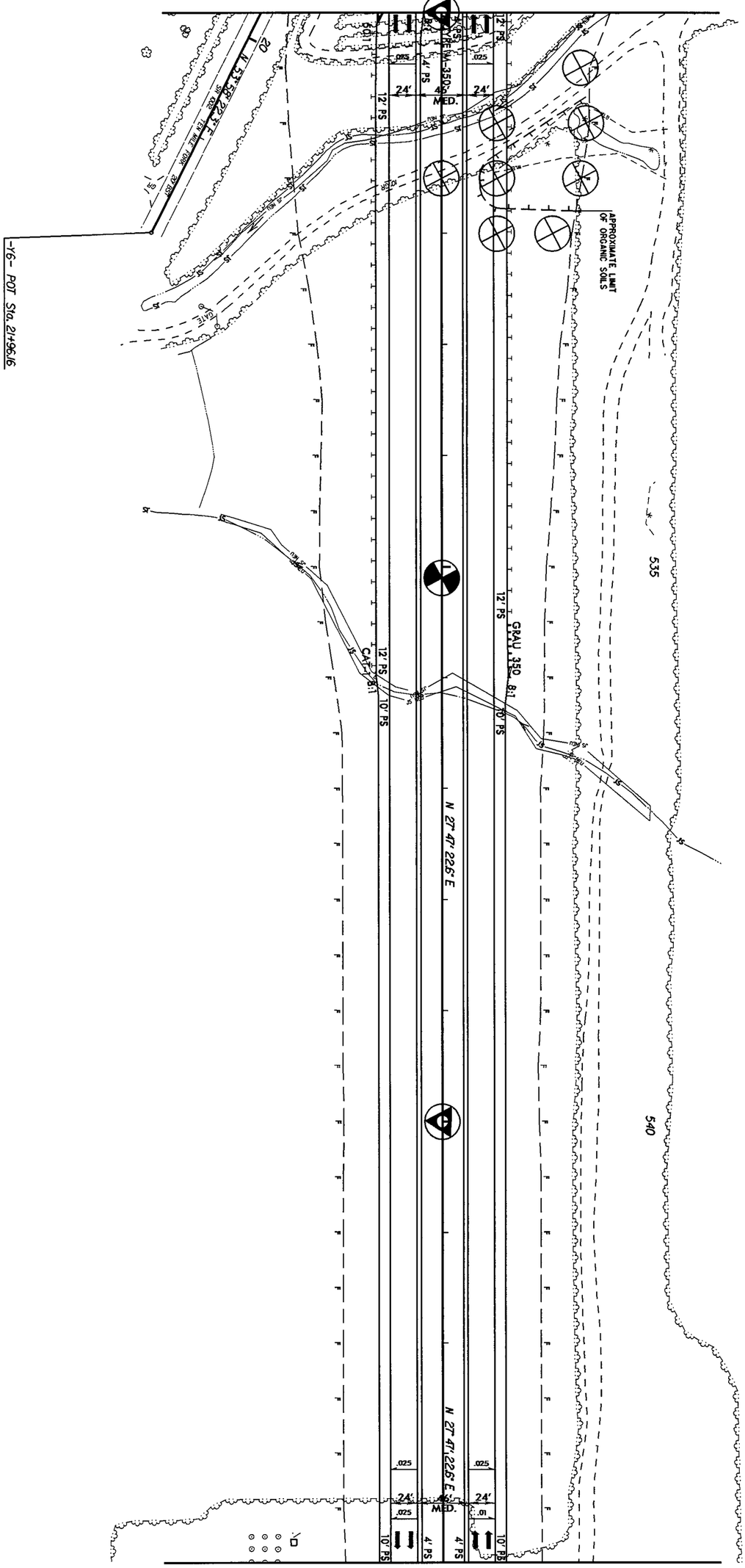
8/17/99

MATCHLINE –L– STA. 530+00.00 SEE SHEET 20



MATCHLINE –L– STA. 544+00.00 SEE SHEET 22

NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO.	R-2514D
SHEET NO.	21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	

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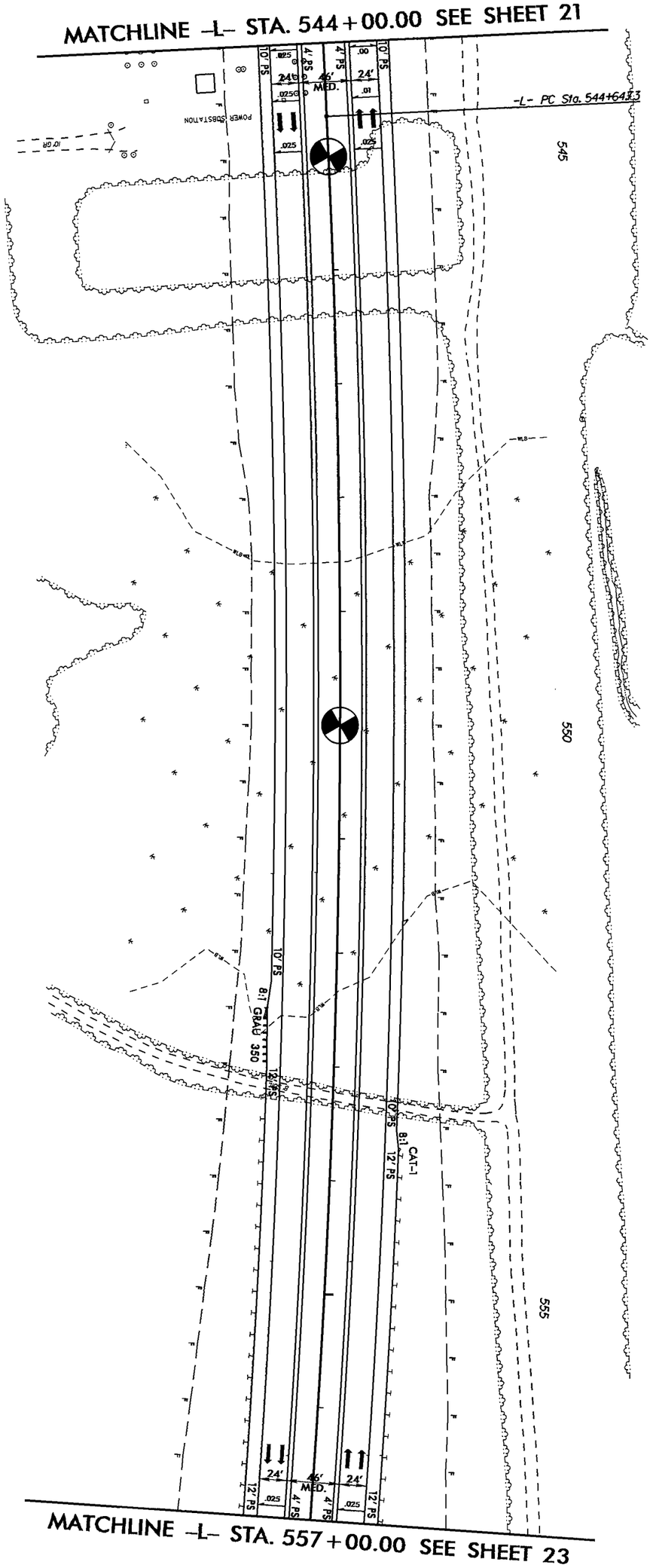
8/17/99

REVISIONS

MATCHLINE –L– STA. 544+00.00 SEE SHEET 21



–L–
PI Sta 571+42.36
Δ = 28°45'22.4" (RT)
D = 6°33'17"
L = 518.363'
T = 264.63'
R = 1032.89'
SE = .025
RC = 90°

MATCHLINE –L– STA. 557+00.00 SEE SHEET 23

NAD 83/NSRS 2007

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	22

ROADWAY DESIGN ENGINEER	RW SHEET NO.
HYDRAULICS ENGINEER	

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

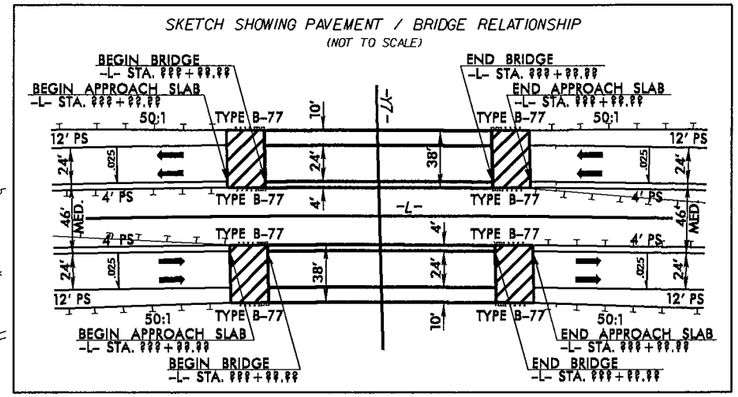
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

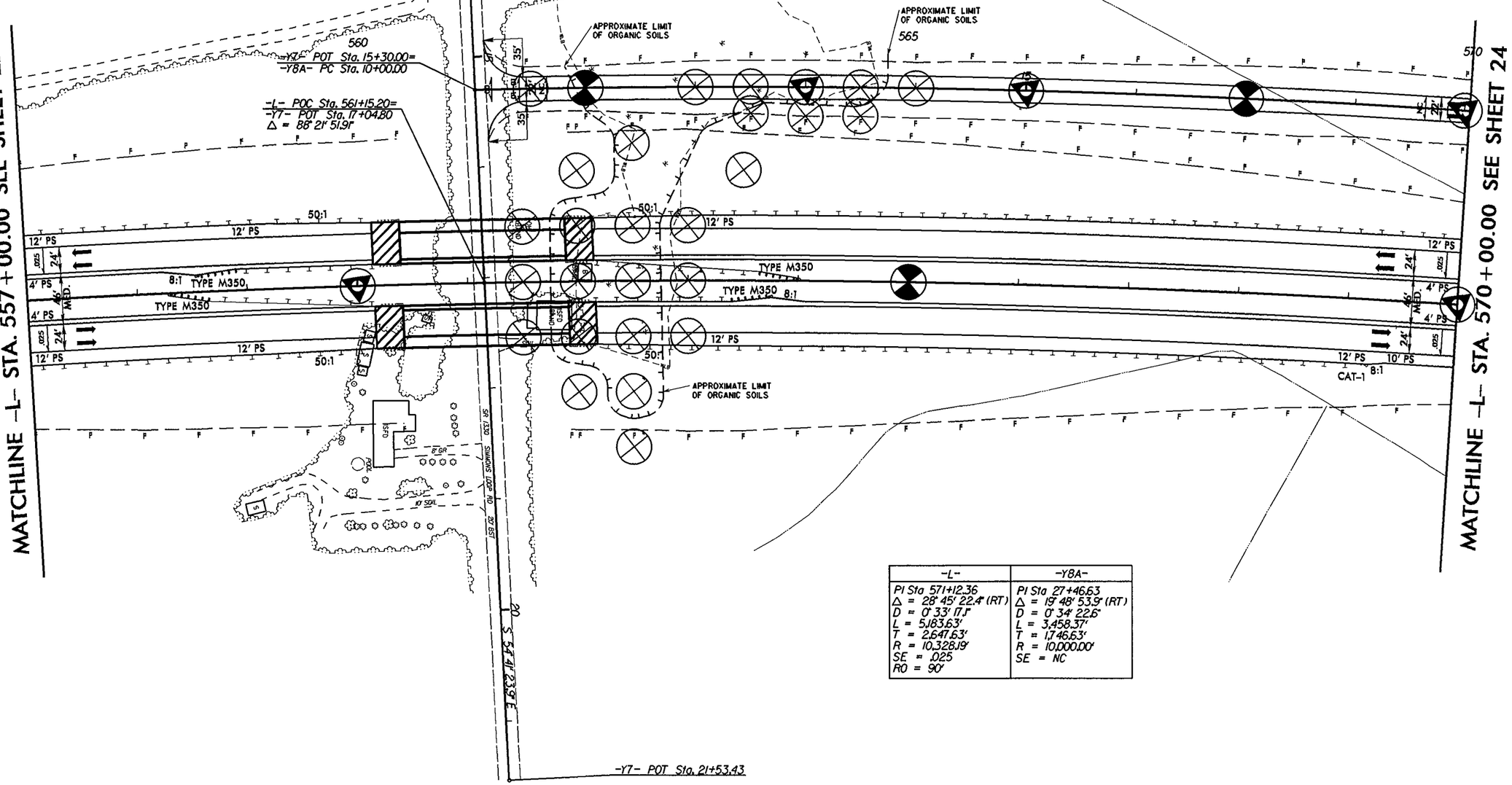
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS 8/17/99

SKETCH SHOWING PAVEMENT / BRIDGE RELATIONSHIP
(NOT TO SCALE)



NAD 83/NSRS 2007



-L-	-Y8A-
PI Sta 571+12.36	PI Sta 27+46.63
Δ = 28° 45' 22.4" (RT)	Δ = 19° 48' 53.9" (RT)
D = 0° 33' 17.1"	D = 0° 34' 22.6"
L = 5,183.63'	L = 3,458.37'
T = 2,647.63'	T = 1,746.63'
R = 10,328.19'	R = 10,000.00'
SE = .025	SE = NC
RO = 90°	

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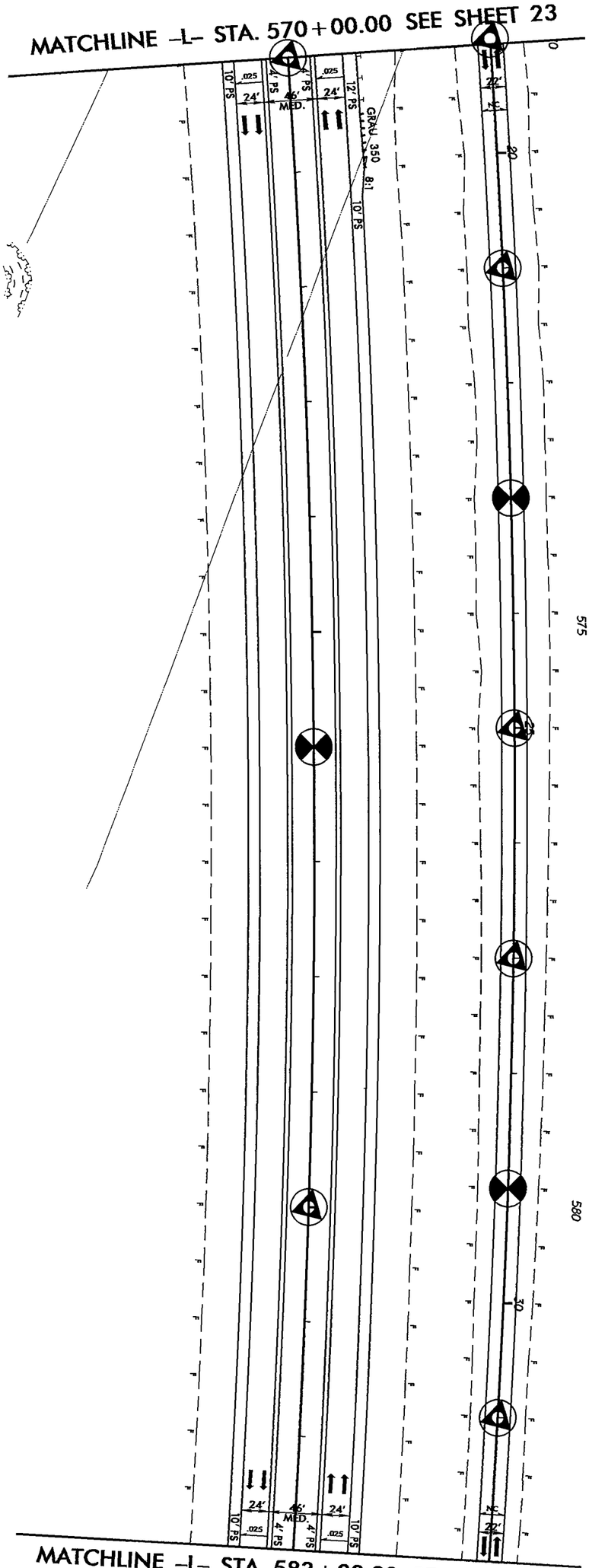
MATCHLINE –L– STA. 570+00.00 SEE SHEET 23



MATCHLINE –L– STA. 583+00.00 SEE SHEET 25

–L–	–Y8A–
PI Sta 571+12.36	PI Sta 27+46.63
Δ = 28° 45' 22.4" (RT)	Δ = 19° 48' 33.9" (RT)
D = 0° 33' 17"	D = 0° 34' 22.6"
L = 5,185.63'	L = 3,456.37'
T = 2,647.63'	T = 1,746.63'
R = 10,328.19'	R = 10,000.00'
SE = 0.025	SE = NC
RD = 90°	

NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PROJECT REFERENCE NO.	R-2514D
R/W SHEET NO.	
SHEET NO.	24

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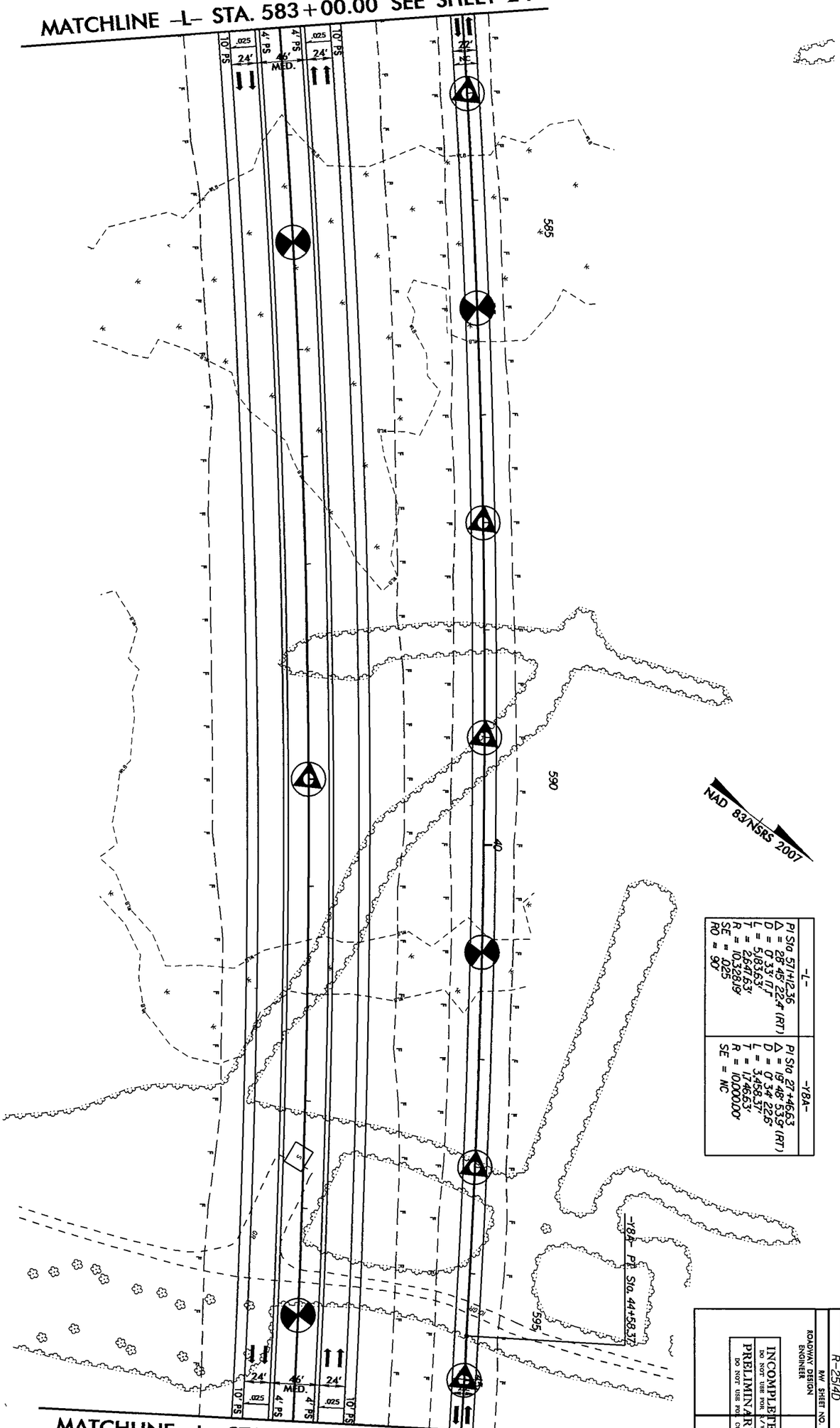
MATCHLINE –L– STA. 583+00.00 SEE SHEET 24



MATCHLINE –L– STA. 596+00.00 SEE SHEET 26

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

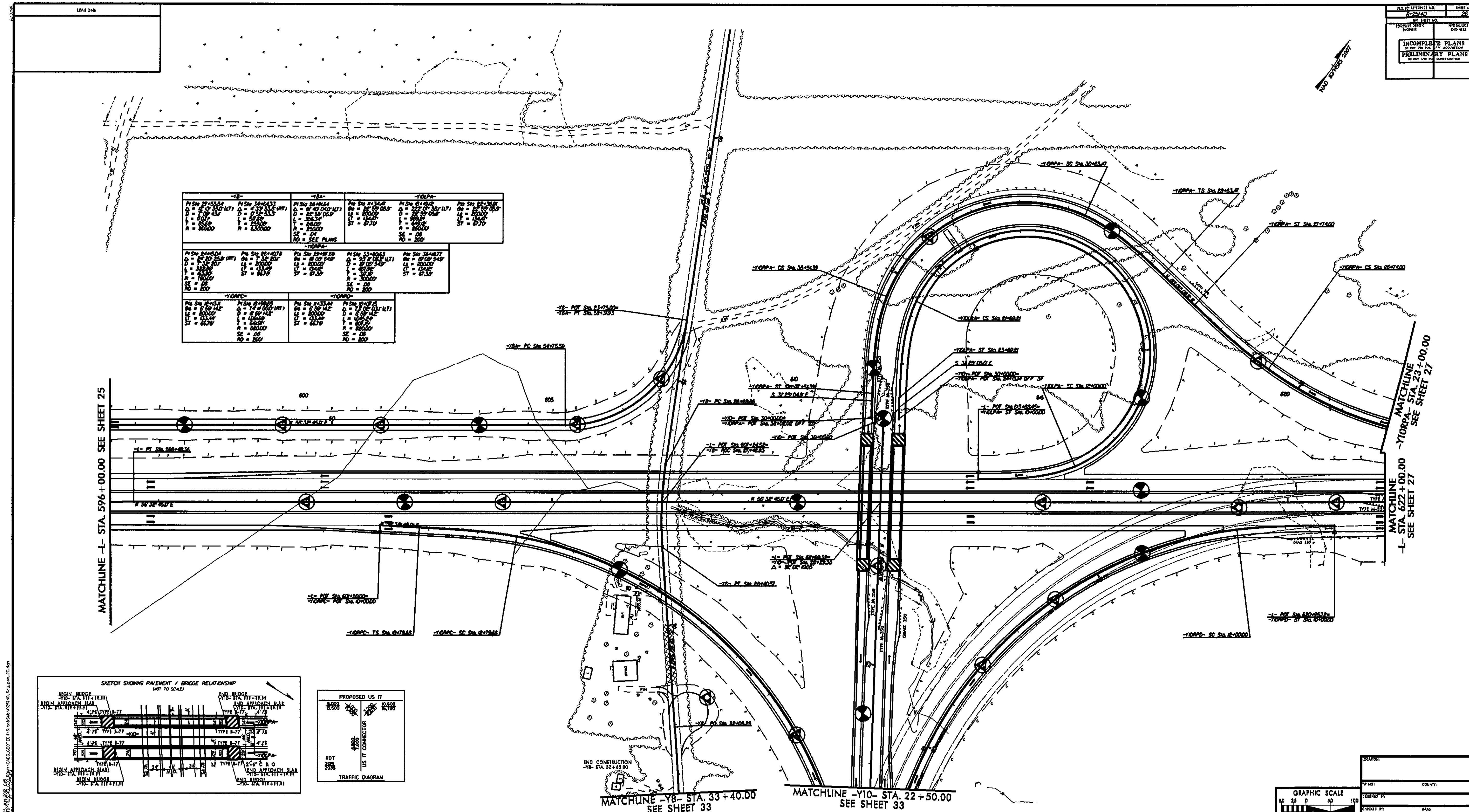
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PROJECT REFERENCE NO. R-2514D

RW SHEET NO.

SHEET NO. 25



-Y8-		-Y8A-	-Y10LPA-		
PI Sta 27+55.54 Δ = 12° 13' 35.0" (LT) D = 7° 09' 43.5" L = 170.71' T = 85.68' R = 800.00'	PI Sta 34+64.33 Δ = 4° 33' 53.6" (RT) D = 0° 54' 53.3" L = 501.89' T = 249.08' R = 6,300.00'	PI Sta 56+96.64 Δ = 81° 40' 04.0" (LT) D = 22° 55' 05.9" L = 356.34' T = 216.08' R = 250.00' SE = .04 RO = SEE PLANS	PIs Sta 11+34.47 θs = 22° 55' 05.9" Ls = 200.00' LT = 134.47' ST = 67.70'	PI Sta 15+49.12 Δ = 222° 07' 38.1" (LT) D = 22° 55' 05.9" L = 969.21' T = 649.12' R = 250.00' SE = .08 RO = 200'	PIs Sta 22+36.91 θs = 22° 55' 05.9" Ls = 200.00' LT = 134.47' ST = 67.70'

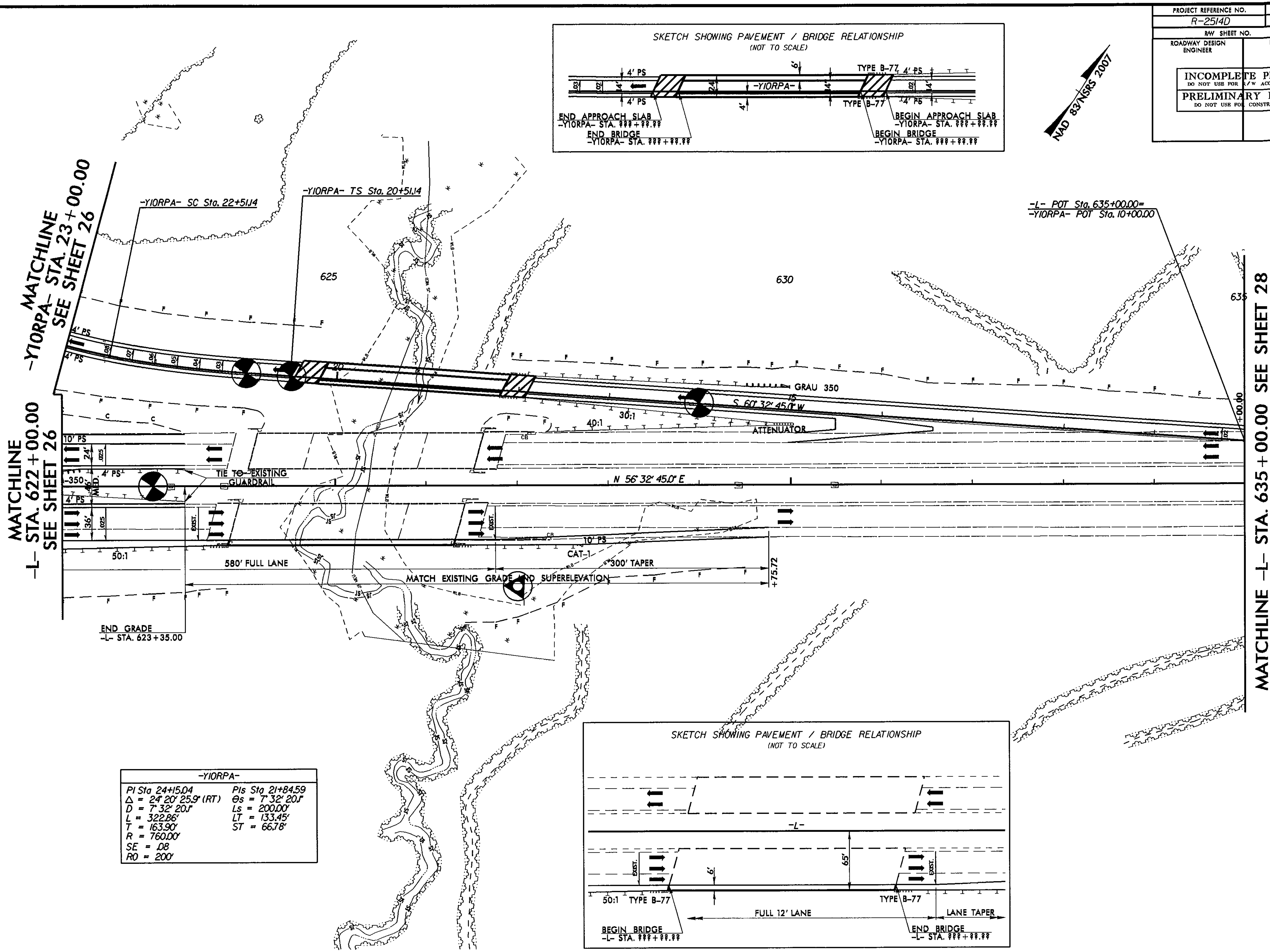
-Y10RPA-				
PI Sta 24+15.04 Δ = 24° 20' 25.9" (RT) D = 7° 32' 20.5" L = 322.86' T = 163.80' R = 760.00' SE = .08 RO = 200'	PIs Sta 26+40.78 θs = 7° 32' 20.5" Ls = 200.00' LT = 133.49' ST = 66.78'	PIs Sta 29+97.59 θs = 19° 05' 54.9" Ls = 200.00' LT = 134.12' ST = 67.38'	PI Sta 33+80.63 Δ = 93° 11' 06.2" (LT) D = 19° 05' 54.9" L = 487.92' T = 317.16' R = 300.00' SE = .08 RO = 200'	PIs Sta 36+18.77 θs = 19° 05' 54.9" Ls = 200.00' LT = 134.12' ST = 67.38'

-Y10RPC-		-Y10RPD-	
PIs Sta 10+13.11 θs = 6° 59' 14.2" Ls = 200.00' LT = 133.44' ST = 66.76'	PI Sta 18+99.65 Δ = 74° 11' 00.0" (RT) D = 6° 59' 14.2" L = 1,061.69' T = 649.91' R = 880.00' SE = .08 RO = 200'	PIs Sta 11+33.44 θs = 6° 59' 14.2" Ls = 200.00' LT = 133.44' ST = 66.76'	PI Sta 18+07.15 Δ = 73° 02' 03.1" (LT) D = 6° 59' 14.2" L = 1,045.24' T = 601.35' R = 820.00' SE = .08 RO = 200'

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y10RPA-	
PI Sta 24+15.04	PIs Sta 21+84.59
Δ = 24° 20' 25.9" (RT)	θs = 7° 32' 20.1"
D = 7° 32' 20.1"	Ls = 200.00'
L = 322.86'	LT = 133.45'
T = 163.90'	ST = 66.78'
R = 760.00'	
SE = .08	
RO = 200'	

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

-L- POT Sta. 635+00.00=
-Y10RPA- POT Sta. 10+00.00

-L- TS Sta. 635+62.27

-L- SC Sta. 638+24.74

-L- CS Sta. 639+83.96

-L- ST Sta. 642+46.43

195' TAPER
MATCH EXISTING GRADE AND SUPERELEVATION

640

645

N 63° 54' 36.6" E

MATCHLINE -L- STA. 635+00.00 SEE SHEET 27

N 56° 32' 45.0" E

END PROJECT R-2514D
-L- STA. 637+00.00

-L-		
PIs Sta 637+37.26	PI Sta 639+04.37	PIs Sta 640+71.46
θs = 2° 17' 30.6"	Δ = 2° 46' 50.4" (RT)	θs = 2° 17' 30.6"
Ls = 262.47'	D = 1° 44' 47.0"	Ls = 262.47'
LT = 174.99'	L = 159.22'	LT = 174.99'
ST = 87.50'	T = 79.63'	ST = 87.50'
	R = 3,280.83'	

REVISIONS

8/17/99

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Features at (HEADS46)]

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

REVISIONS

8/17/99

-Y3A- POT Sta. 10+00.00

S 75° 58' 09.5" E

SR 1338 BELL LOOP RD

BEGIN CONSTRUCTION
-Y3A- STA. 13+72.19

R=55'

R=40'

+60.00

MATCHLINE -Y3A- STA. 15+50.00
SEE SHEET 6

-Y3- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-Y3- STA. 14+50.00

400' LANE TRANSITION LT. & RT.

+50.00

CONC HW

2' BST

MC 58 24' BST

2' BST

N 89° 16' 21.5" E

30' C&G

MATCHLINE -Y3- STA. 18+50.00
SEE SHEET 6

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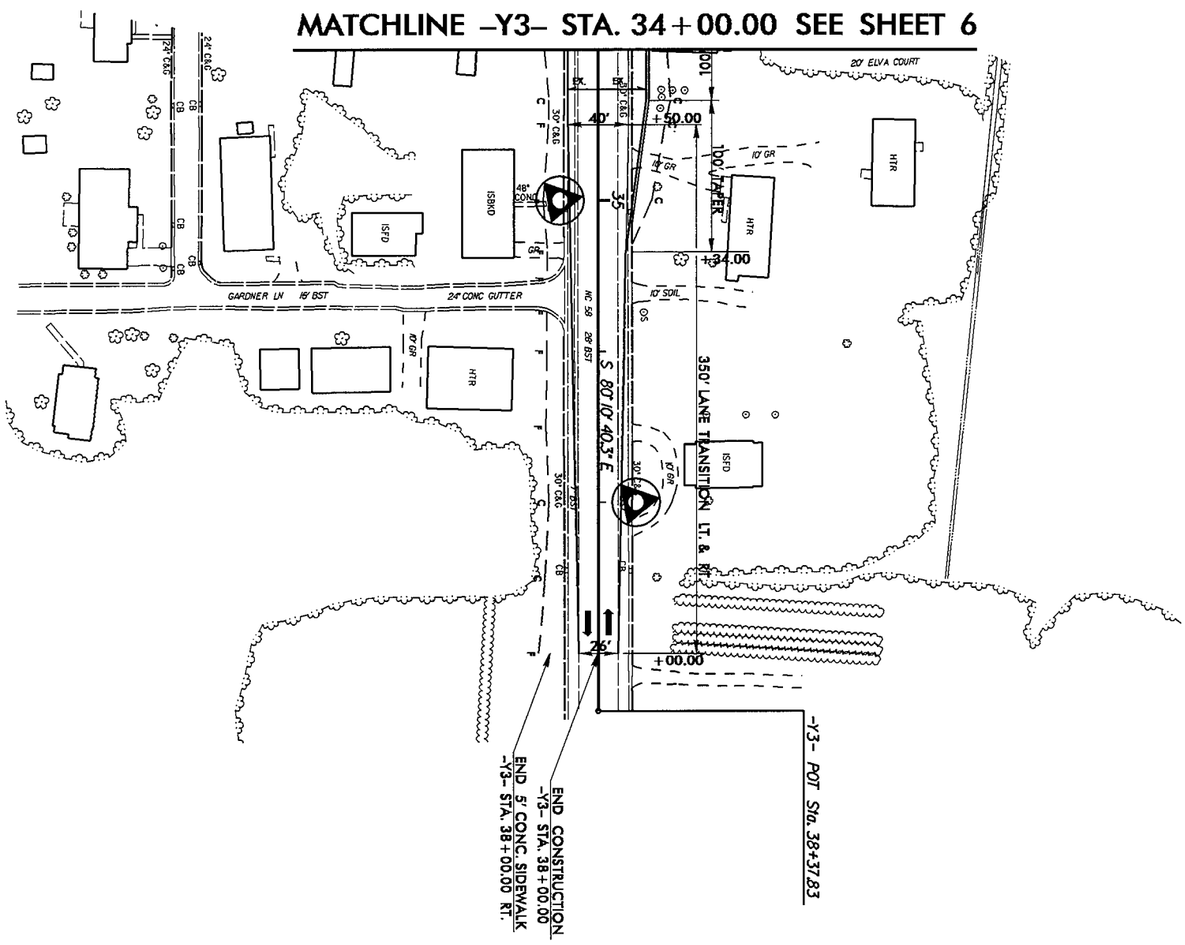
8/17/99

REVISIONS



NAD 83/NSRS 2007

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

ROADWAY DESIGN ENGINEER

R/W SHEET NO.

HYDRAULICS ENGINEER

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	30

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

8/17/99

REVISIONS

-Y4-
PI Sta 21+23.22
Δ = 11° 53' 26.8" (RT)
D = 5° 49' 00.6"
L = 204.42'
T = 102.58'
R = 985.00'
SE = .03
RO = 72'

NAD 83/NSRS 2007

-Y4- PT Sta. 22+25.06

-Y4- PC Sta. 20+20.64

BEGIN 2'-6" C & G AND SIDEWALK
-Y4- STA. 20+15.00 LT. & RT.

BEGIN CONSTRUCTION
-Y4- STA. 19+00.00

115' TRANSITION
LT. & RT.

MATCHLINE -Y4- STA. 24+00.00
SEE SHEET 8

S 72° 54' 59.0" E

RD 18' BST

HTR

ISBKD

36' CONC

CAR PORT

ISFD

CAN

GRAU

GRAU 350

S 16° 01' 32.2" E

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

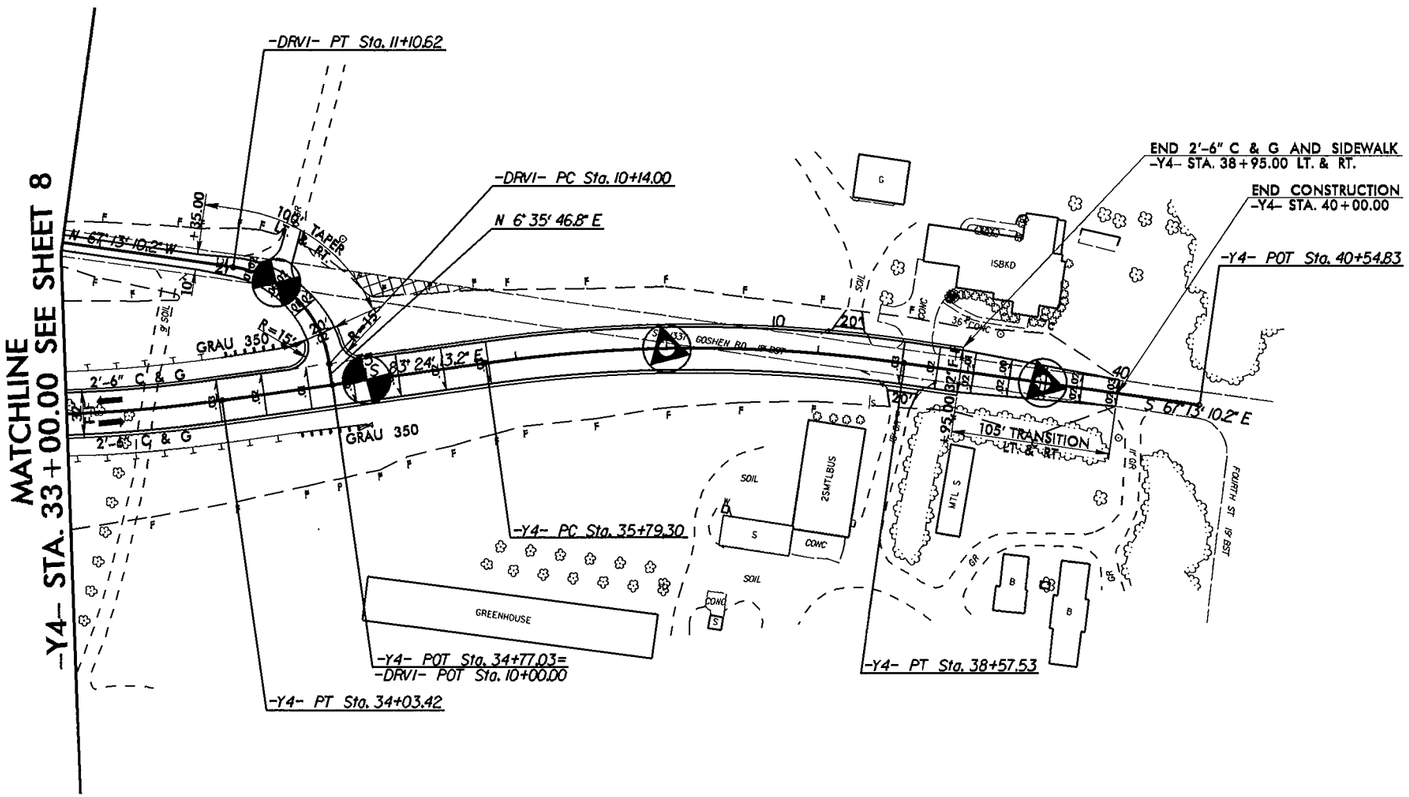
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

8/17/99

REVISIONS



-Y4-		-DRVI-
PI Sta 32+13.54	PI Sta 37+19.35	PI Sta 10+70.33
Δ = 22° 22' 41.0" (LT)	Δ = 16° 11' 03.0" (RT)	Δ = 73° 48' 57.0" (LT)
D = 5° 49' 00.6"	D = 5° 49' 00.6"	D = 76° 23' 39.7"
L = 384.71'	L = 278.23'	L = 96.62'
T = 194.84'	T = 140.05'	T = 56.33'
R = 985.00'	R = 985.00'	R = 75.00'
SE = .03	SE = .03	SE = NC
RO = SEE PLANS	RO = SEE PLANS	

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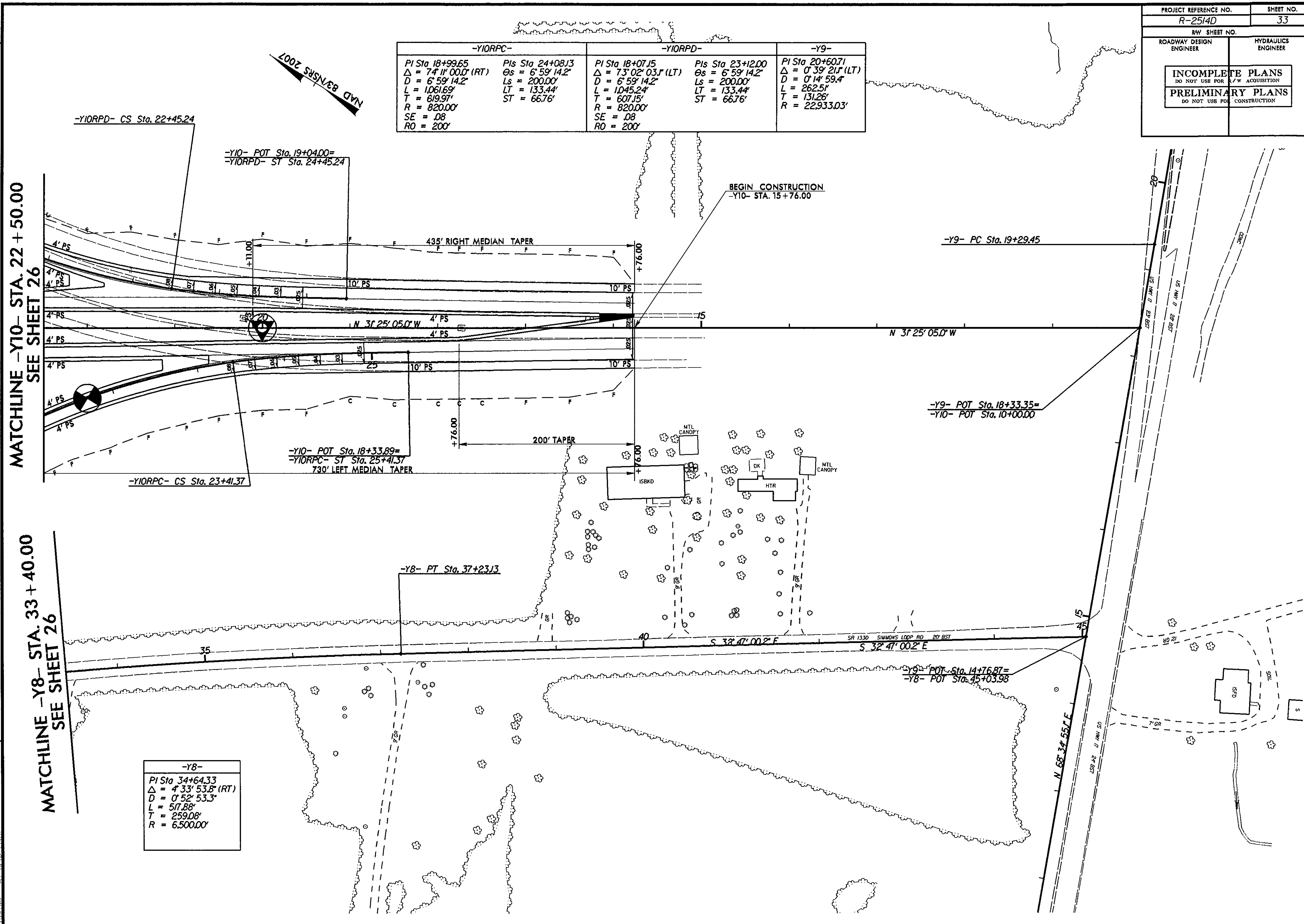
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	33
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPC-		-Y10RPD-		-Y9-
PI Sta 18+99.65	PIs Sta 24+08.13	PI Sta 18+07.15	PIs Sta 23+12.00	PI Sta 20+60.71
Δ = 74° 11' 00.0" (RT)	θs = 6° 59' 14.2"	Δ = 73° 02' 03.1" (LT)	θs = 6° 59' 14.2"	Δ = 0° 39' 21.1" (LT)
D = 6° 59' 14.2"	Ls = 200.00'	D = 6° 59' 14.2"	Ls = 200.00'	D = 0° 14' 59.4"
L = 1,061.69'	LT = 133.44'	L = 1,045.24'	LT = 133.44'	L = 262.51'
T = 619.97'	ST = 66.76'	T = 607.15'	ST = 66.76'	T = 131.26'
R = 820.00'		R = 820.00'		R = 22,933.03'
SE = .08		SE = .08		
RO = 200'		RO = 200'		

-Y8-
PI Sta 34+64.33
Δ = 4° 33' 53.8" (RT)
D = 0° 52' 53.3"
L = 517.88'
T = 259.08'
R = 6,500.00'



REVISIONS
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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	34

ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-13	CL	300+00	0.0-1.5	A-4(2)	25	3	0.6	3.6	73.7	22.1	100	100	97	-	-
SS-14	CL	300+00	3.5-5.0	A-6(21)	40	22	0.2	12.2	49.4	38.2	100	100	92	-	-
SS-15	CL	300+00	8.5-10.0	A-6(12)	35	17	2.0	21.9	42.0	34.1	100	99	80	-	-
SS-16	CL	300+00	13.5-15.0	A-7-6(24)	50	26	0.6	15.3	25.9	58.2	100	100	85	-	-
SS-17	CL	300+00	18.5-20.0	A-4(0)	25	7	7.8	47.8	20.3	24.1	100	98	46	-	-
SS-18	CL	310+00	0.0-1.5	A-4(0)	24	NP	0.6	3.0	78.3	18.1	100	100	97	-	-
SS-19	CL	310+00	3.5-5.0	A-7-6(20)	41	20	0.2	11.7	51.9	36.2	100	100	93	-	-
SS-20	CL	310+00	8.5-10.0	A-4(5)	27	9	0.2	28.2	43.5	28.2	100	100	79	-	-
SS-21	CL	310+00	13.5-15.0	A-4(0)	18	NP	8.5	57.5	23.9	10.1	100	98	37	-	-

SS-13
SS-14
SS-15
SS-16
SS-17

SS-18
SS-19
SS-20
SS-21

ST-1

VERY SOFT TO MEDIUM STIFF TAN SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

60 50 40 30 20 10 0 -10 -20

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-1	CL	319+00	0.0-1.5	A-4(2)	25	3	0.8	3.2	76.1	20.1	100	100	97	-	-
SS-5	CL	319+00	3.5-5.0	A-6(11)	37	11	0.2	12.2	53.4	34.1	100	100	91	-	-
SS-6	CL	319+00	8.5-10.0	A-4(0)	25	5	0.6	50.4	26.9	22.1	100	100	54	-	-
SS-7	CL	319+00	13.5-15.0	A-3(0)	21	NP	17.6	73.5	5.0	4.0	100	99	10	-	-
SS-8	CL	319+00	18.5-20.0	A-3(0)	19	NP	68.5	25.7	3.8	2.0	100	85	6	-	-
SS-9	CL	319+00	23.5-25.0	A-3(0)	14	NP	88.0	9.8	2.2	0.0	100	58	2	-	-
SS-10	CL	319+00	28.5-30.0	A-3(0)	22	NP	63.7	32.1	2.2	2.0	93	78	4	-	-
SS-11	CL	319+00	33.5-35.0	A-3(0)	15	NP	65.6	31.1	1.4	2.0	75	65	3	-	-
SS-12	CL	319+00	38.5-40.0	A-3(0)	22	NP	69.7	27.5	0.8	2.0	93	77	3	-	-

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-25	CL	325+00	0.0-1.5	A-4(2)	27	2	1.4	7.8	70.6	20.1	100	99	93	-	-
SS-26	CL	325+00	3.5-5.0	A-7-6(28)	48	27	0.2	8.5	49.7	42.3	100	100	94	-	-
SS-27	CL	325+00	8.5-10.0	A-6(10)	38	20	1.0	37.6	25.2	36.2	98	98	64	-	-
SS-28	CL	325+00	13.5-15.0	A-6(3)	29	13	6.0	43.7	22.1	28.2	99	98	51	-	-
SS-29	CL	325+00	18.5-20.0	A-2-4(0)	18	NP	56.1	33.4	4.4	6.0	100	88	11	-	-
SS-30	CL	325+00	23.5-25.0	A-3(0)	19	NP	51.5	45.5	3.0	0.0	100	96	31	-	-
SS-31	CL	325+00	28.5-30.0	A-3(0)	20	NP	48.3	47.5	4.2	0.0	90	85	41	-	-
SS-32	CL	325+00	33.5-35.0	A-3(0)	249	NP	58.6	37.8	3.6	0.0	95	88	41	-	-
SS-33	CL	325+00	38.5-40.0	A-3(0)	20	NP	43.9	46.7	3.4	6.0	94	83	10	-	-
SS-34	CL	325+00	43.5-45.0	A-4(0)	20	NP	22.5	39.2	28.2	10.1	99	89	40	-	-

SS-4 SS-9
SS-5 SS-10
SS-6 SS-11
SS-7 SS-12
SS-8

SS-25 SS-30
SS-26 SS-31
SS-27 SS-32
SS-28 SS-33
SS-29 SS-34

40' LT

ST-2

VERY SOFT TO MEDIUM STIFF TAN SANDY AND CLAYEY SILT, AND SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

LOOSE TO DENSE GRAY SAND WITH SHELL FRAGMENTS, SATURATED (BELGRADE FORMATION)

SOFT GRAY SANDY SILT WITH SHELL FRAGMENTS, WET (BELGRADE FORMATION)

60 50 40 30 20 10 0 -10 -20

314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00

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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	35
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

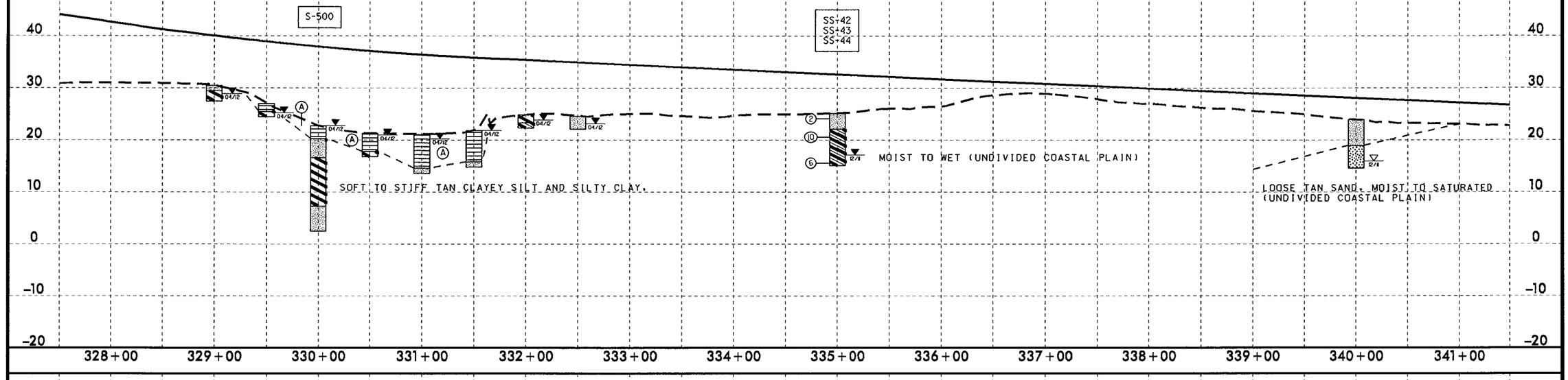
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
S-500	CL	330+00	0.0- 2.5	-	-	-	-	-	-	-	-	-	-	-	5.5
SS-42	CL	335+00	0.0- 1.5	A-4(2)	24	3	0.6	7.2	70.0	22.1	100	100	93	-	-
SS-43	CL	335+00	3.5- 5.0	A-6(13)	32	14	0.4	5.0	60.4	34.2	100	100	95	-	-
SS-44	CL	335+00	8.5- 10.0	A-6(15)	35	17	1.0	15.9	46.9	36.2	100	99	90	-	-

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, MOIST TO WET (ALLUVIAL)

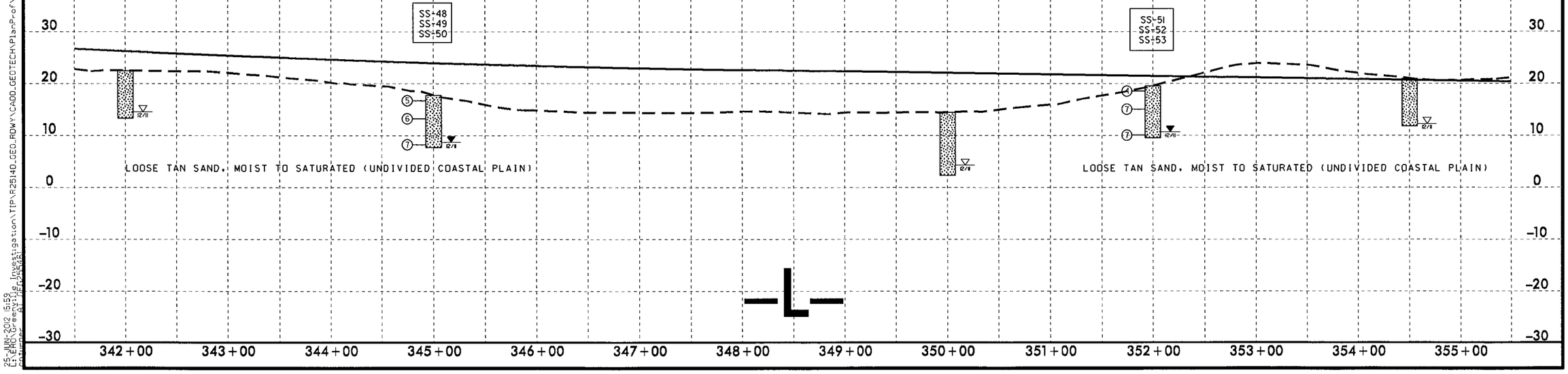
VANE SHEAR TESTS

STATION	OFFSET	DEPTH	SR (psi)
331+00	5' RT	0.5	1147
331+00	5' RT	1.0	925
331+00	5' RT	1.5	1295
331+00	5' RT	2.0	925
331+00	5' RT	2.5	1166
331+00	5' RT	3.0	1332
331+00	5' RT	3.5	925
331+00	5' RT	4.0	1462
331+00	5' RT	4.5	1906
331+00	5' RT	5.0	2202
331+00	5' RT	5.5	1998
331+00	5' RT	6.0	2405



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-48	CL	345+00	0.0- 1.5	A-2-4(0)	20	NP	14.8	68.1	15.1	2.0	100	96	19	-	-
SS-49	CL	345+00	3.5- 5.0	A-2-4(0)	19	NP	11.2	73.9	8.9	6.0	100	98	16	-	-
SS-50	CL	345+00	8.5- 10.0	A-2-4(0)	19	NP	42.2	45.2	10.5	2.0	97	84	13	-	-
SS-51	CL	352+00	0.0- 1.5	A-2-4(0)	22	NP	5.8	77.5	14.7	2.0	100	99	20	-	-
SS-52	CL	352+00	3.5- 5.0	A-2-4(0)	20	NP	7.0	76.9	6.1	10.0	100	99	17	-	-
SS-53	CL	352+00	8.5- 10.0	A-2-4(0)	24	NP	5.6	70.3	6.1	18.0	100	100	25	-	-



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	36
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

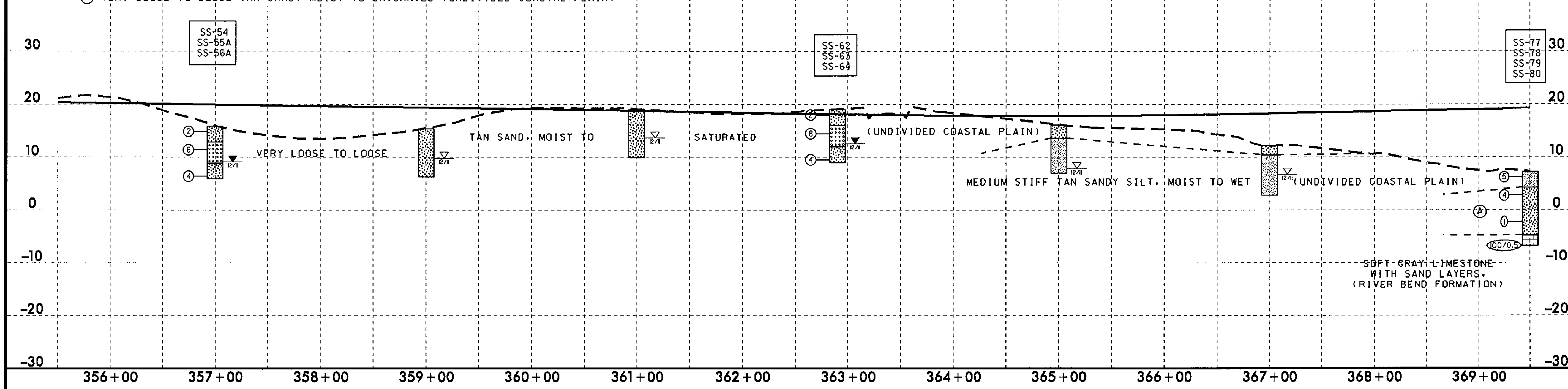
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

5/28/99

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-54	CL	357+00	0.0-1.5	A-2-4(0)	18	NP	27.8	58.9	5.3	8.0	100	90	15	-	-
SS-55A	CL	357+00	3.5-5.0	A-3(0)	17	NP	36.6	54.9	2.5	6.0	99	91	9	-	-
SS-56A	CL	357+00	8.5-10.0	A-2-4(0)	24	NP	17.4	71.3	5.3	6.0	100	97	13	-	-
SS-62	CL	362+90	0.0-1.5	A-2-4(0)	19	NP	5.0	71.5	11.5	12.0	100	99	26	-	-
SS-63	CL	362+90	3.5-5.0	A-3(0)	21	NP	5.2	90.3	2.5	2.0	100	100	5	-	-
SS-64	CL	362+90	8.5-10.0	A-2-4(0)	29	NP	0.6	74.5	16.9	8.0	100	100	35	-	-
SS-77	CL	369+50	0.0-1.5	A-4(0)	29	NP	5.0	55.3	19.5	20.1	100	98	44	-	-
SS-78	CL	369+50	3.5-5.0	A-2-4(0)	27	NP	2.8	77.3	9.9	10.1	98	97	23	-	-
SS-79	CL	369+50	8.5-10.0	A-2-4(0)	23	NP	22.9	62.0	3.0	12.1	98	94	15	-	-
SS-80	CL	369+50	13.5-15.0	A-1-b(0)	18	NP	28.8	13.9	53.3	4.0	41	32	24	-	-

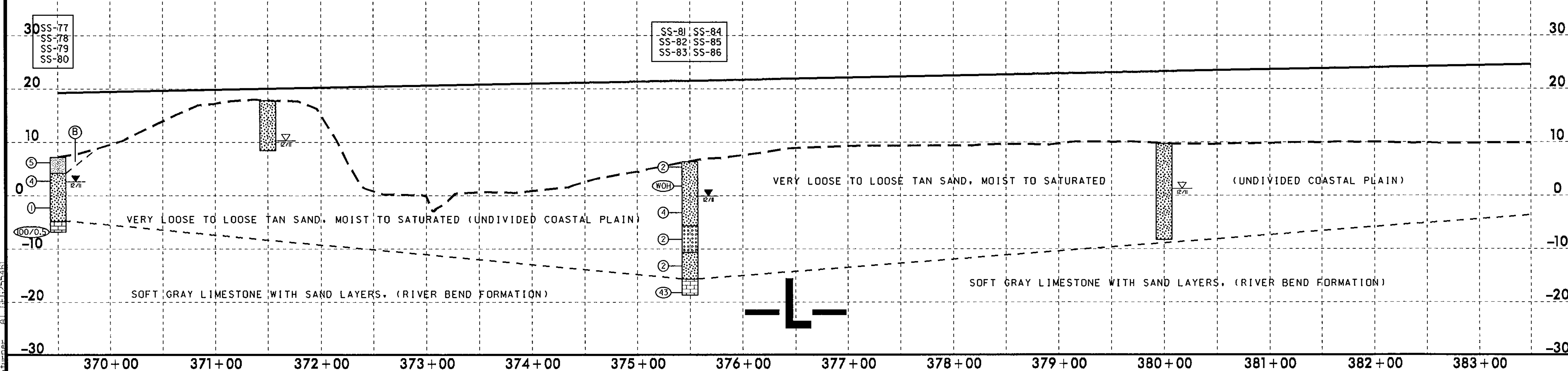
(A) VERY LOOSE TO LOOSE TAN SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-81	CL	375+50	0.0-1.5	A-2-4(0)	23	NP	10.9	60.2	18.9	10.1	100	96	31	-	-
SS-82	CL	375+50	3.5-5.0	A-2-4(0)	21	NP	18.3	59.0	16.7	6.0	100	91	26	-	-
SS-83	CL	375+50	8.5-10.0	A-2-4(0)	26	NP	4.6	83.3	6.0	6.0	100	99	14	-	-
SS-84	CL	375+50	13.5-15.0	A-3(0)	25	NP	25.6	66.2	4.2	4.0	100	93	9	-	-
SS-85	CL	375+50	18.5-20.0	A-2-4(0)	22	NP	15.5	74.4	6.0	4.0	100	97	11	-	-
SS-86	CL	375+50	23.5-25.0	A-1-b(0)	18	NP	32.8	34.4	22.7	10.1	64	48	22	-	-

(B) MEDIUM STIFF TAN SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)



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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	37
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-87	CL	385+00	0.0- 1.5	A-2-4(0)	23	NP	3.0	76.5	12.5	8.0	100	99	23	-	-
SS-88	CL	385+00	3.5- 5.0	A-2-4(0)	24	NP	1.2	86.5	8.2	4.0	100	100	14	-	-
SS-89	CL	385+00	8.5- 10.0	A-3(0)	22	NP	48.9	47.9	1.2	2.0	99	87	3	-	-
SS-90	CL	385+00	13.5- 15.0	A-1-b(0)	17	NP	57.5	30.3	6.2	6.1	62	42	8	-	-
SS-91	CL	385+00	18.5- 20.0	A-1-b(0)	19	NP	43.6	29.5	16.9	10.1	56	37	16	-	-
SS-92	CL	385+00	23.5- 25.0	A-1-b(0)	19	NP	44.8	39.8	11.4	4.0	65	50	11	-	-

SS-87 SS-90
SS-88 SS-91
SS-89 SS-92

VERY LOOSE TO MEDIUM DENSE TAN SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

SOFT GRAY LIMESTONE WITH SAND LAYERS. (RIVER BEND FORMATION)

60 50 40 30 20 10 0 -10 -20

384+00 385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-166	CL	401+00	0.0- 1.5	A-4(0)	23	7	6.3	22.4	59.2	12.1	100	99	73	-	-
SS-167	CL	401+00	3.5- 5.0	A-6(14)	35	18	3.4	16.6	47.6	32.4	100	99	82	18.1	-
SS-168	CL	401+00	8.5- 10.0	A-2-4(0)	22	NP	8.1	80.1	1.7	10.1	100	99	12	-	-
SS-163	CL	407+00	0.0- 1.5	A-4(0)	19	2	3.8	25.5	54.5	16.2	100	99	74	-	-
SS-164	CL	407+00	3.5- 5.0	A-4(7)	29	9	1.0	15.0	55.7	28.3	100	100	88	24.2	-
SS-165	CL	407+00	8.5- 10.0	A-6(20)	40	19	1.4	1.4	58.7	38.4	100	99	98	-	-

SS-166
SS-167
SS-168

SS-163
SS-164
SS-165

MEDIUM DENSE TAN SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TO

MEDIUM DENSE TO VERY DENSE GRAY SAND WITH LIMESTONE FRAGMENTS, SATURATED (RIVER BEND FORMATION)

VERY STIFF TAN SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

60 50 40 30 20 10 0 -10 -20

398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00

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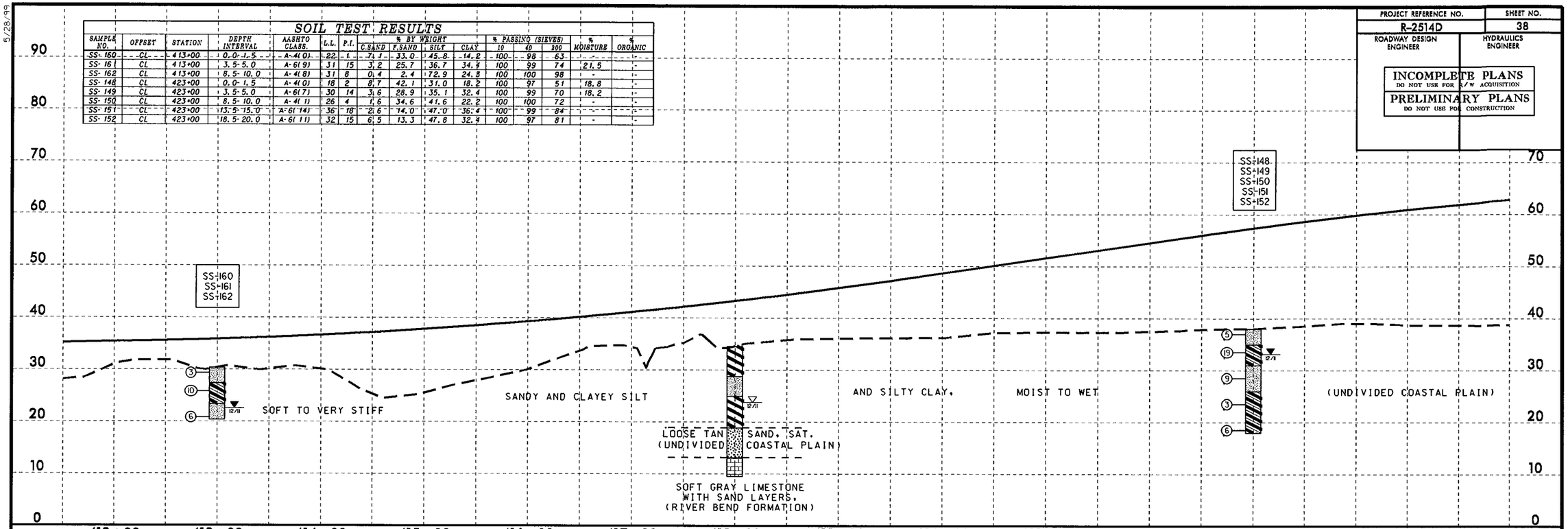
5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	38
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

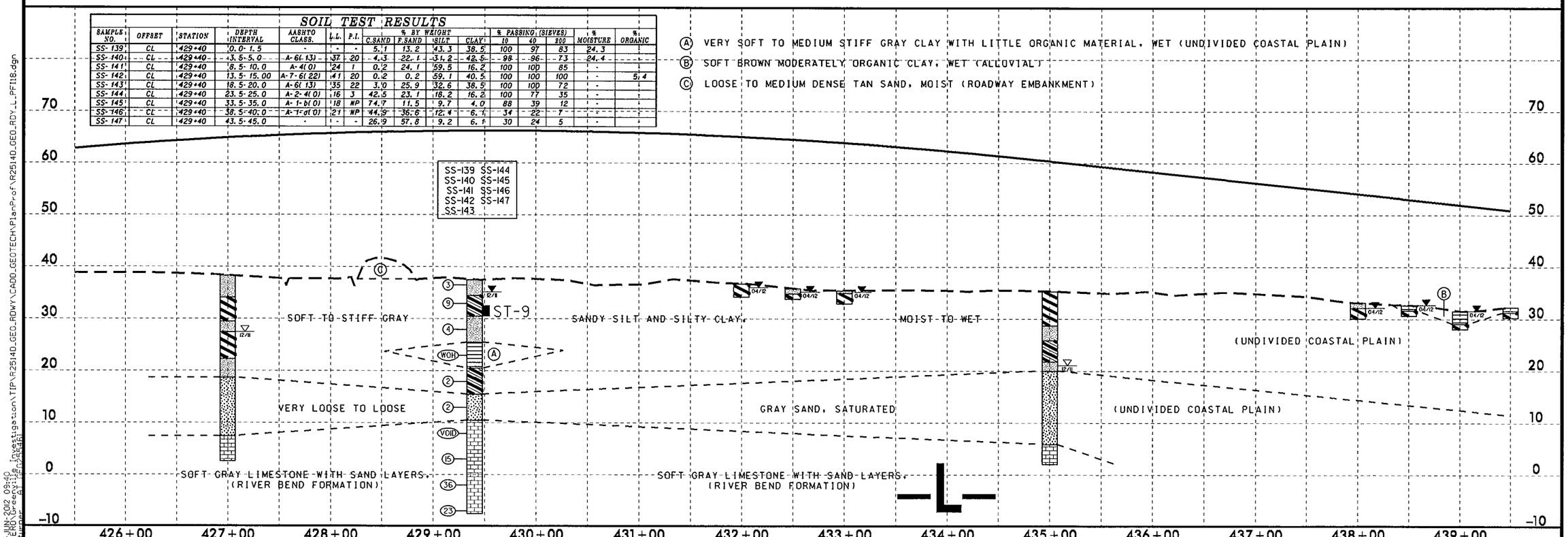
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-160	CL	413+00	0.0-1.5	A-4(0)	22	1	7.1	33.0	45.8	14.2	100	98	63	-	-
SS-161	CL	413+00	3.5-5.0	A-6(9)	31	15	3.2	25.7	36.7	34.4	100	99	74	21.5	-
SS-162	CL	413+00	8.5-10.0	A-4(8)	31	8	0.4	2.4	72.9	24.5	100	100	98	-	-
SS-148	CL	423+00	0.0-1.5	A-4(0)	18	2	8.7	42.1	31.0	18.2	100	97	51	18.8	-
SS-149	CL	423+00	3.5-5.0	A-6(7)	30	14	3.6	28.9	35.1	32.4	100	99	70	18.2	-
SS-150	CL	423+00	8.5-10.0	A-4(1)	26	4	1.6	34.6	41.6	22.2	100	100	72	-	-
SS-151	CL	423+00	13.5-15.0	A-6(14)	36	18	2.6	14.0	47.0	36.4	100	99	84	-	-
SS-152	CL	423+00	18.5-20.0	A-6(11)	32	15	6.5	13.3	47.8	32.4	100	97	81	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-139	CL	429+40	0.0-1.5	-	-	-	5.1	13.2	43.3	38.5	100	97	83	24.3	-
SS-140	CL	429+40	3.5-5.0	A-6(13)	37	20	4.3	22.1	31.2	42.5	98	96	73	24.4	-
SS-141	CL	429+40	8.5-10.0	A-4(0)	24	1	0.2	24.1	59.5	16.2	100	100	85	-	-
SS-142	CL	429+40	13.5-15.00	A-7-6(22)	41	20	0.2	0.2	59.1	40.5	100	100	100	-	5.4
SS-143	CL	429+40	18.5-20.0	A-6(13)	35	22	3.0	25.9	32.6	38.5	100	100	72	-	-
SS-144	CL	429+40	23.5-25.0	A-2-4(0)	16	3	42.5	23.1	18.2	16.2	100	77	35	-	-
SS-145	CL	429+40	33.5-35.0	A-1-b(0)	18	NP	74.7	11.5	9.7	4.0	88	39	12	-	-
SS-146	CL	429+40	38.5-40.0	A-1-a(0)	21	NP	44.9	36.6	12.4	6.1	34	22	7	-	-
SS-147	CL	429+40	43.5-45.0	-	-	-	26.9	57.8	9.2	6.1	30	24	5	-	-



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	39

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

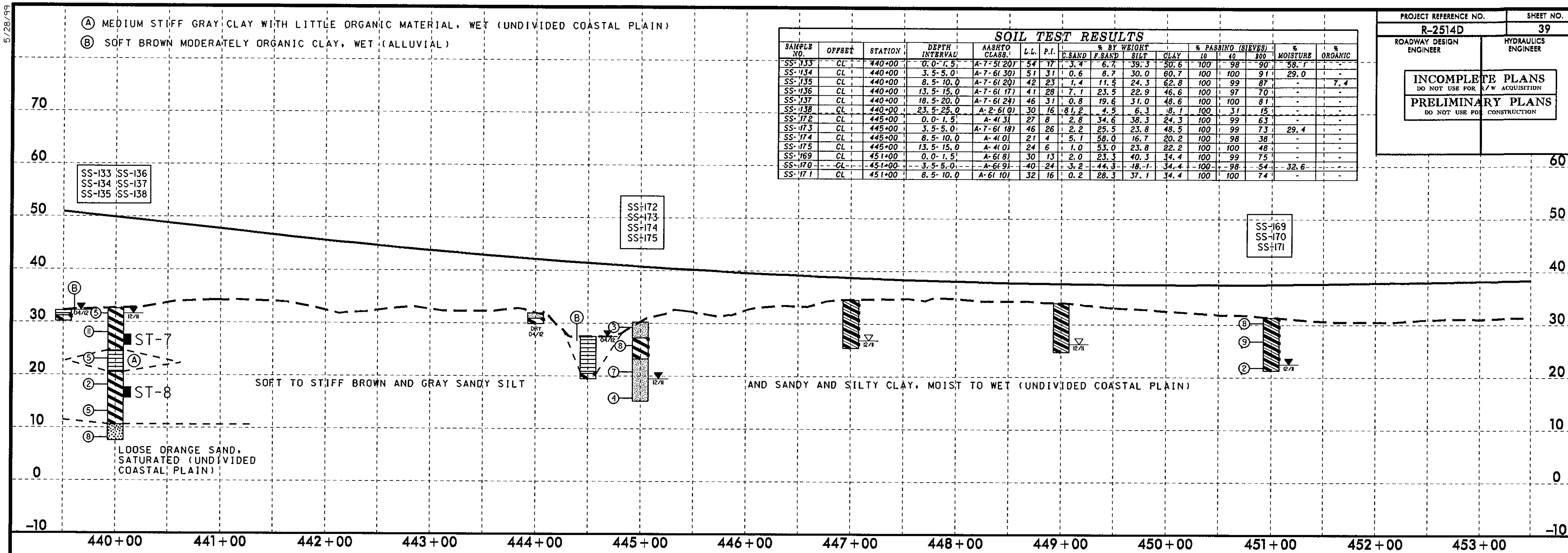
5/28/99

Ⓐ MEDIUM STIFF GRAY CLAY WITH LITTLE ORGANIC MATERIAL, WET (UNDIVIDED COASTAL PLAIN)

Ⓑ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

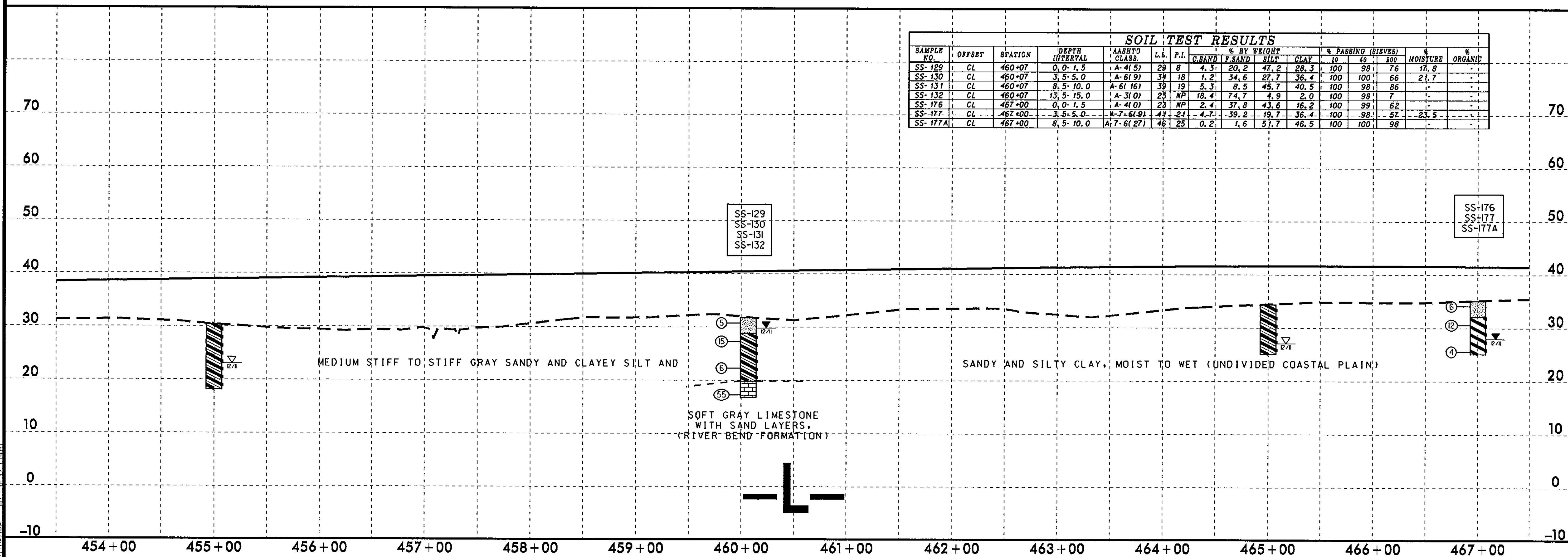
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-133	CL	440+00	0.0-1.5	A-7-5(20)	54	17	3.4	6.7	39.3	50.6	100	98	90	58.1	-
SS-134	CL	440+00	3.5-5.0	A-7-6(30)	51	31	0.6	8.7	30.0	60.7	100	100	91	29.0	-
SS-135	CL	440+00	8.5-10.0	A-7-6(20)	42	23	1.4	11.5	24.3	62.8	100	99	87	-	7.4
SS-136	CL	440+00	13.5-15.0	A-7-6(17)	41	28	7.1	23.5	22.9	46.6	100	97	70	-	-
SS-137	CL	440+00	18.5-20.0	A-7-6(24)	46	31	0.8	19.6	31.0	48.6	100	100	81	-	-
SS-138	CL	440+00	23.5-25.0	A-2-6(0)	30	16	81.2	4.5	6.3	8.1	100	31	15	-	-
SS-172	CL	445+00	0.0-1.5	A-4(3)	27	8	2.8	34.6	38.3	24.3	100	99	63	-	-
SS-173	CL	445+00	3.5-5.0	A-7-6(18)	46	26	2.2	25.5	23.8	48.5	100	99	73	29.4	-
SS-174	CL	445+00	8.5-10.0	A-4(0)	21	4	5.1	58.0	16.7	20.2	100	98	38	-	-
SS-175	CL	445+00	13.5-15.0	A-4(0)	24	6	1.0	53.0	23.8	22.2	100	100	48	-	-
SS-169	CL	451+00	0.0-1.5	A-6(8)	30	13	2.0	23.3	40.3	34.4	100	99	75	-	-
SS-170	CL	451+00	3.5-5.0	A-6(9)	40	24	3.2	44.3	18.1	34.4	100	98	54	32.6	-
SS-171	CL	451+00	8.5-10.0	A-6(10)	32	16	0.2	28.3	37.1	34.4	100	100	74	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-129	CL	460+07	0.0-1.5	A-4(5)	29	8	4.3	20.2	47.2	28.3	100	98	76	17.8	-
SS-130	CL	460+07	3.5-5.0	A-6(9)	34	18	1.2	34.6	27.7	36.4	100	100	66	21.7	-
SS-131	CL	460+07	8.5-10.0	A-6(16)	39	19	5.3	8.5	45.7	40.5	100	98	86	-	-
SS-132	CL	460+07	13.5-15.0	A-3(0)	23	NP	18.4	74.7	4.9	2.0	100	98	7	-	-
SS-176	CL	467+00	0.0-1.5	A-4(0)	23	NP	2.4	37.8	43.6	16.2	100	99	62	-	-
SS-177	CL	467+00	3.5-5.0	A-7-6(9)	41	21	4.7	39.2	19.7	36.4	100	98	57	23.5	-
SS-177A	CL	467+00	8.5-10.0	A-7-6(27)	46	25	0.2	1.6	51.7	46.5	100	100	98	-	-



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5/28/99

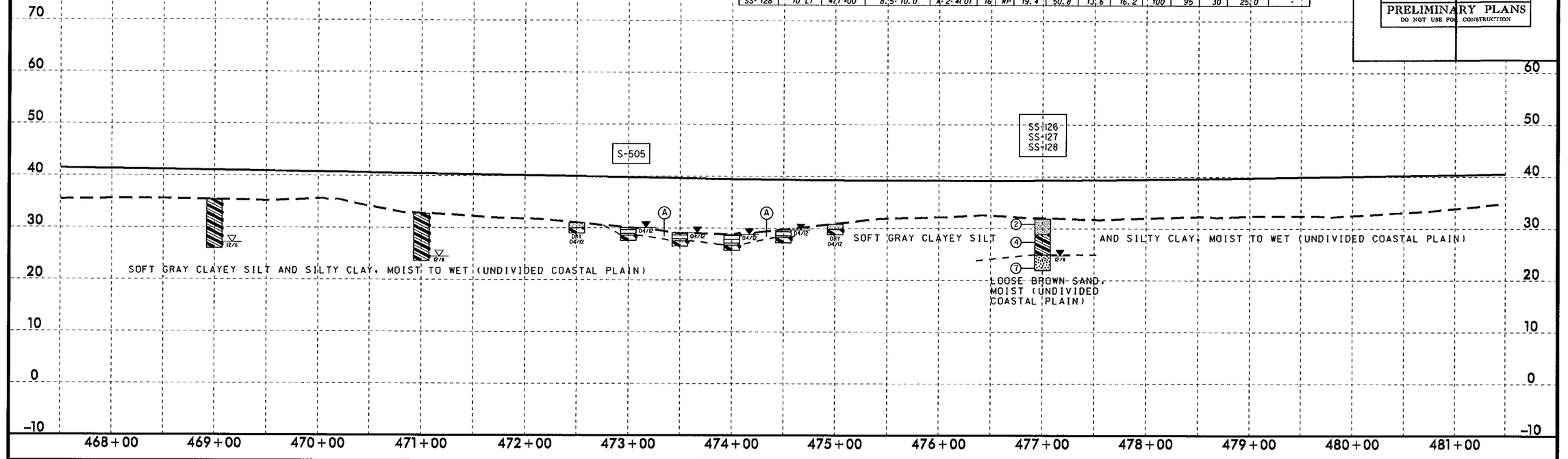
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	40
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

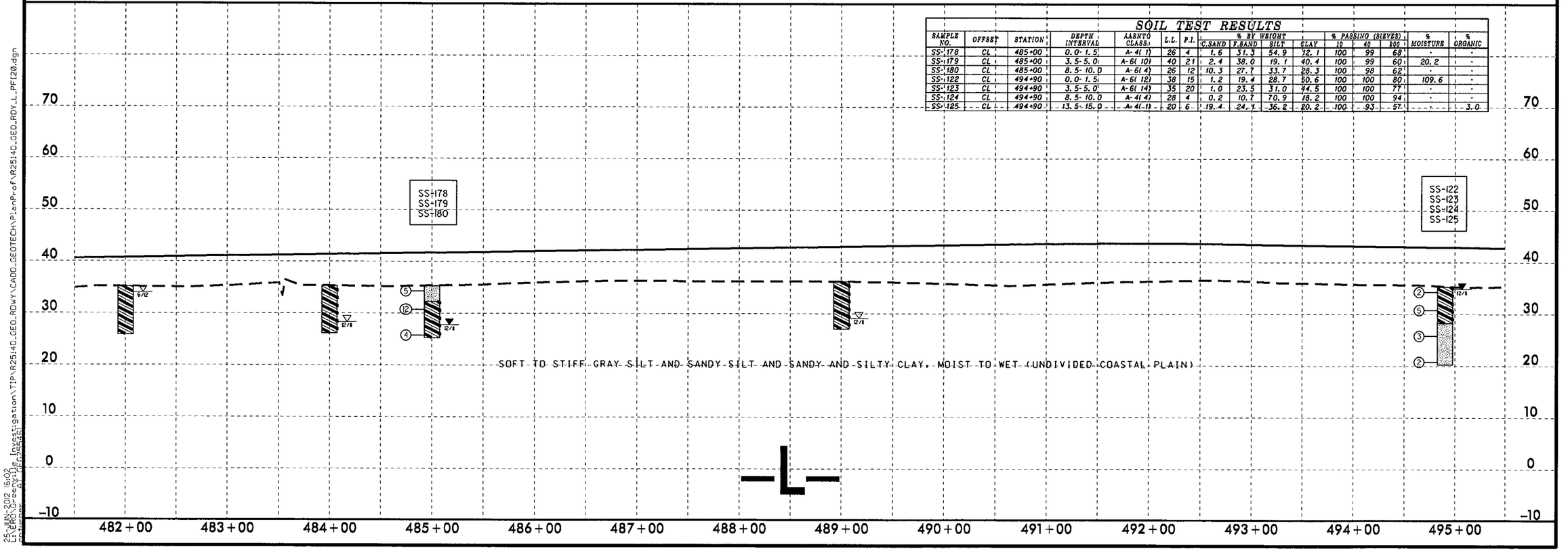
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
S-505	CL	473+00	0.0- 1.5	-	-	-	-	-	-	-	-	-	-		12.8
SS-126	10 LT	477+00	0.0- 1.5	A-4(3)	26	7	2.0	26.1	43.5	28.3	100	99	74	44.8	-
SS-127	10 LT	477+00	3.5- 5.0	A-6(10)	33	15	2.8	22.5	36.2	38.5	100	99	76	41.9	-
SS-128	10 LT	477+00	8.5- 10.0	A-2-4(0)	16	NP	19.4	50.8	13.6	16.2	100	95	30	25.0	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-178	CL	485+00	0.0- 1.5	A-4(1)	26	4	1.6	31.3	54.9	12.1	100	99	68	-	-
SS-179	CL	485+00	3.5- 5.0	A-6(10)	40	21	2.4	38.0	19.1	40.4	100	99	60	20.2	-
SS-180	CL	485+00	8.5- 10.0	A-6(4)	26	12	10.3	27.7	33.7	28.3	100	98	62	-	-
SS-122	CL	494+90	0.0- 1.5	A-6(12)	38	15	1.2	19.4	28.7	50.6	100	100	80	109.6	-
SS-123	CL	494+90	3.5- 5.0	A-6(14)	35	20	1.0	23.5	31.0	44.5	100	100	77	-	-
SS-124	CL	494+90	8.5- 10.0	A-4(4)	28	4	0.2	10.7	70.9	18.2	100	100	94	-	-
SS-125	CL	494+90	13.5- 15.0	A-4(1)	20	6	19.4	24.4	36.2	20.2	100	93	57	-	3.0



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5/26/99

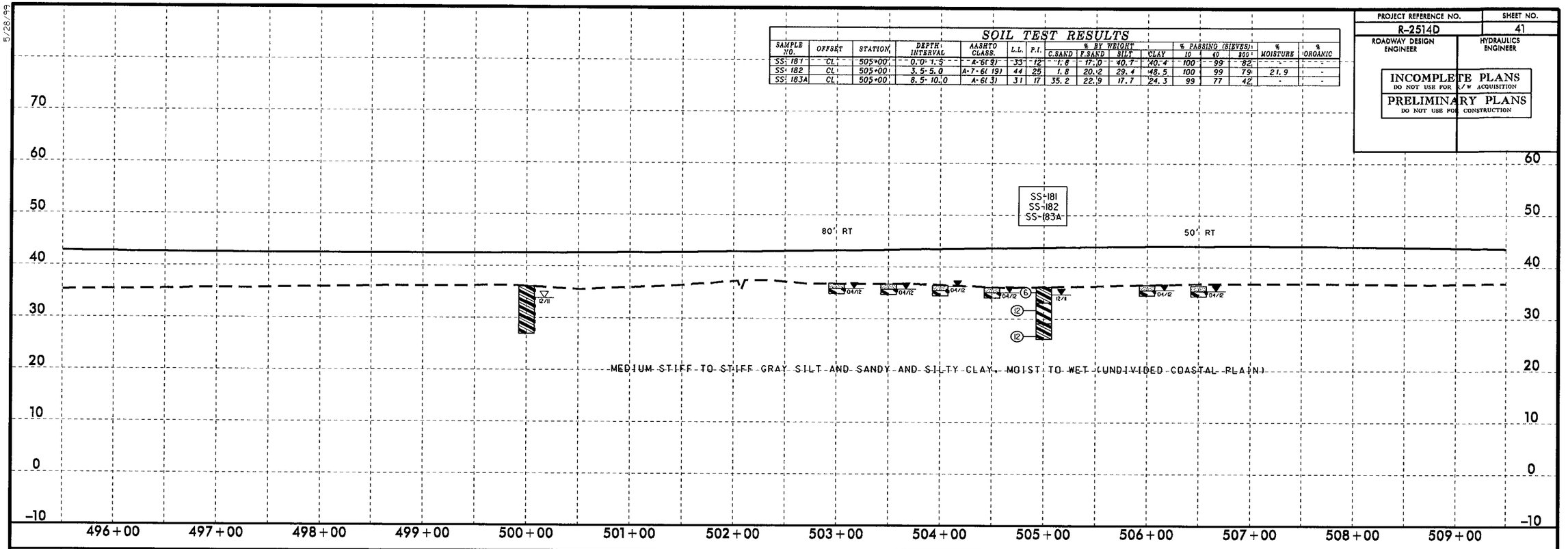
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	41
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

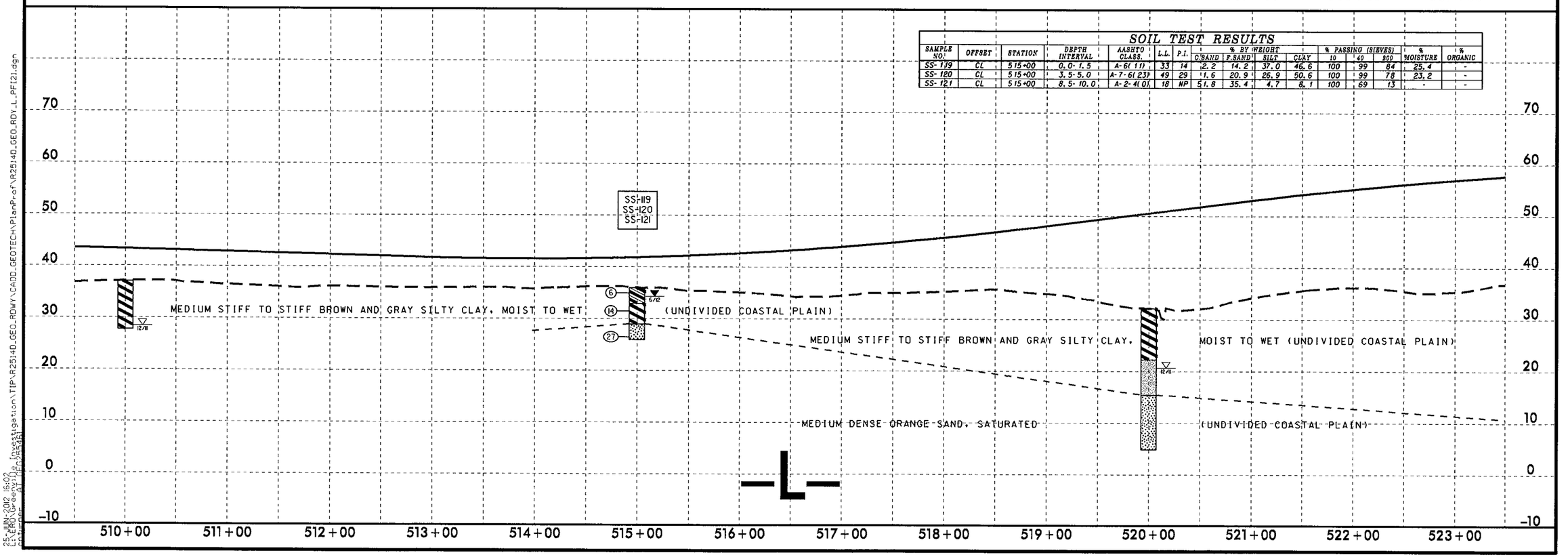
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-181	CL	505+00	0.0-1.5	A-6(8)	33	12	1.8	17.0	40.7	40.4	100	99	82	-	-
SS-182	CL	505+00	3.5-5.0	A-7-6(19)	44	25	1.8	20.2	29.4	48.5	100	99	79	21.9	-
SS-183A	CL	505+00	8.5-10.0	A-6(3)	31	11	35.2	22.9	17.7	24.3	99	77	42	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-119	CL	515+00	0.0-1.5	A-6(11)	33	14	2.2	14.2	37.0	46.6	100	99	84	25.4	-
SS-120	CL	515+00	3.5-5.0	A-7-6(23)	49	29	1.6	20.9	26.9	50.6	100	99	78	23.2	-
SS-121	CL	515+00	8.5-10.0	A-2-4(0)	18	NP	51.8	35.4	4.7	8.1	100	69	13	-	-



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	42
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

5/28/99

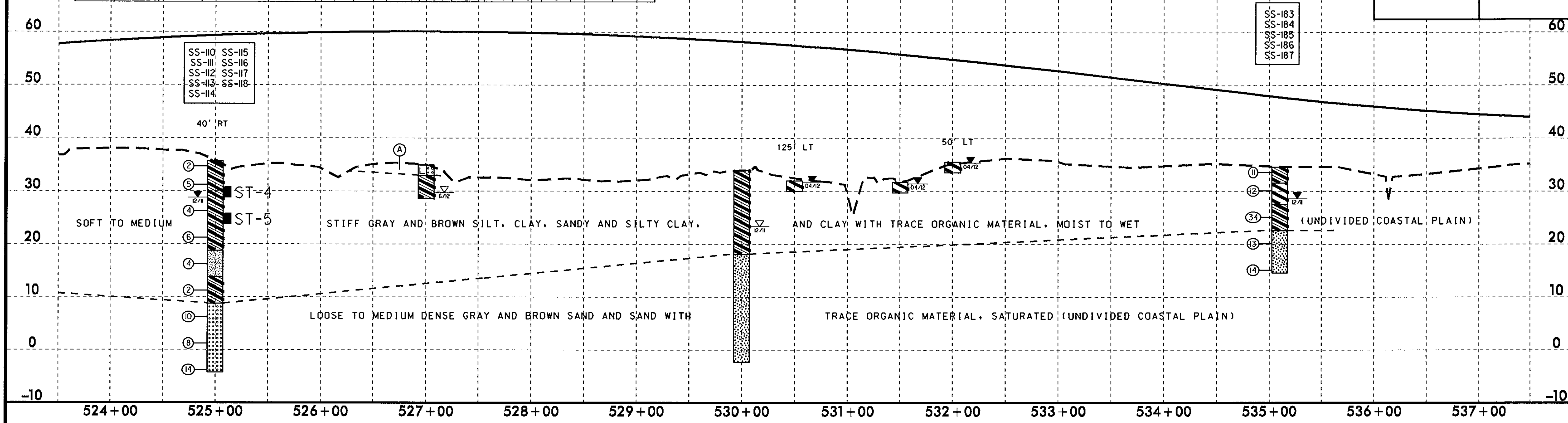
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-110	40 RT	525+00	0.0-1.5	A-6(14)	34	16	1.0	9.3	41.3	48.4	100	100	90	25.6	-
SS-111	40 RT	525+00	3.5-5.0	A-6(10)	35	17	0.8	29.5	29.4	40.4	100	100	70	25.1	-
SS-112	40 RT	525+00	8.5-10.0	A-6(12)	32	12	1.2	1.8	64.6	32.4	100	99	97	-	-
SS-113	40 RT	525+00	13.5-15.0	A-6(14)	33	14	0.2	1.0	66.4	32.4	100	100	99	-	-
SS-114	40 RT	525+00	18.5-20.0	A-4(3)	26	5	8.7	4.0	69.0	18.2	100	96	87	-	-
SS-115	40 RT	525+00	23.5-25.0	-	-	-	-	-	-	-	-	-	-	-	3.5
SS-116	40 RT	525+00	28.5-30.0	A-3(0)	23	NP	50.6	42.5	2.8	4.0	100	81	7	-	-
SS-117	40 RT	525+00	33.5-35.0	-	-	-	-	-	-	-	-	-	-	-	2.9
SS-118	40 RT	525+00	38.5-40.0	A-3(0)	20	NP	62.1	33.2	2.6	2.1	100	81	5	-	-

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-183	CL	535+10	0.0-1.5	A-6(13)	38	15	0.8	12.7	44.0	42.5	100	100	87	-	-
SS-184	CL	535+10	3.5-5.0	A-7-6(16)	45	24	3.8	26.5	29.2	40.4	100	99	70	-	-
SS-185	CL	535+10	8.5-10.0	A-6(7)	28	14	11.5	22.2	29.8	36.4	100	96	67	-	-
SS-186	CL	535+10	13.5-15.0	A-2-4(0)	22	4	12.0	61.2	8.6	18.2	80	76	22	-	-
SS-187	CL	535+10	18.5-20.0	A-2-4(0)	20	NP	48.3	19.4	23.2	9.1	88	59	29	-	-

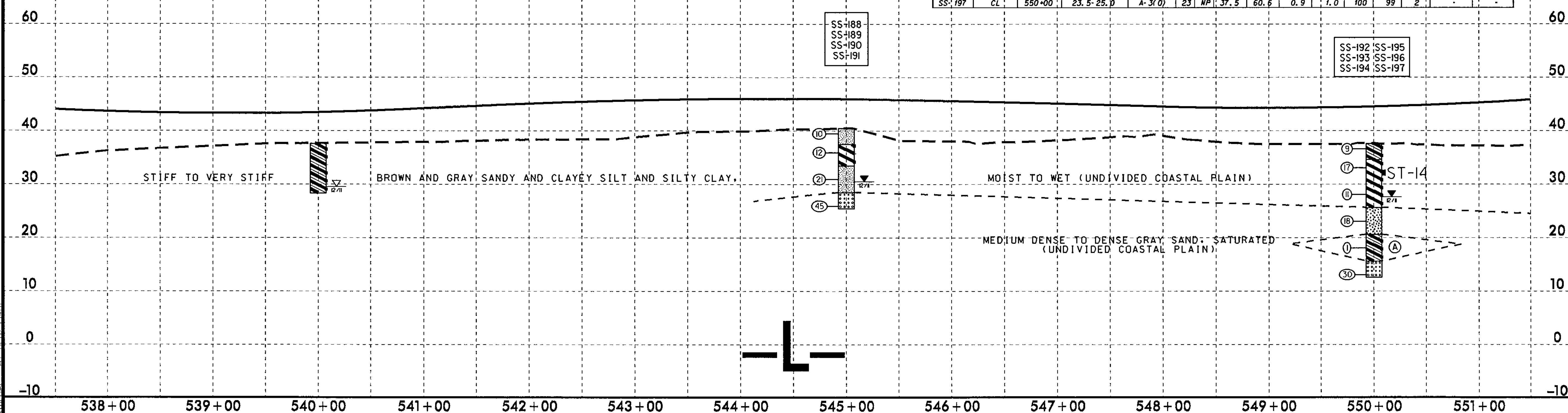
(A) LOOSE TO MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)



(A) VERY SOFT GRAY SANDY SILT, WET (UNDIVIDED COASTAL PLAIN)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-188	CL	545+00	0.0-1.5	A-4(10)	37	10	1.4	10.5	47.5	40.5	100	99	88	24.3	-
SS-189	CL	545+00	3.5-5.0	A-7-6(32)	56	31	0.2	9.7	27.3	62.8	100	100	91	-	-
SS-190	CL	545+00	8.5-10.0	A-4(2)	21	7	7.9	28.2	39.6	24.3	100	97	64	-	-
SS-191	CL	545+00	13.5-15.0	A-3(0)	16	NP	27.4	67.5	3.1	2.0	100	93	5	-	-
SS-192	CL	550+00	0.0-1.5	A-6(12)	34	14	1.0	9.3	43.1	46.6	100	100	90	-	-
SS-193	CL	550+00	3.5-5.0	A-7-6(25)	48	30	1.2	17.0	35.2	46.6	100	100	83	17.2	-
SS-194	CL	550+00	8.5-10.0	A-7-6(23)	43	21	0.4	0.6	68.6	30.4	100	100	99	-	-
SS-195	CL	550+00	13.5-15.0	A-2-4(0)	22	5	55.5	28.1	2.2	14.2	99	68	16	-	-
SS-196	CL	550+00	18.5-20.0	A-6(4)	33	15	14.4	37.7	13.5	34.4	97	91	47	-	-
SS-197	CL	550+00	23.5-25.0	A-3(0)	23	NP	37.5	60.6	0.9	1.0	100	99	2	-	-



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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	43
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, MOIST TO WET (ALLUVIAL)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
S-502	CL	562+50	0.0- 1.0	-	-	-	-	-	-	-	-	-	-	-	10.9
SS-201	CL	565+00	0.0- 1.5	A-7-5(23)	56	20	4.3	4.9	38.2	52.7	98	96	89	-	-
SS-202	CL	565+00	3.5- 5.0	A-7-6(31)	54	28	0.4	1.0	31.7	66.9	98	97	96	34.7	-
SS-203	CL	565+00	8.5- 10.0	A-7-6(11)	42	21	15.8	22.3	21.4	40.5	99	91	62	-	-
SS-204	CL	565+00	13.5- 15.0	A-2-4(0)	19	NP	33.6	41.8	11.3	13.2	100	87	25	-	2.5
SS-205	CL	565+00	18.5- 20.0	A-3(0)	21	NP	72.7	24.3	0.9	2.0	97	59	3	-	-
SS-206	CL	565+00	23.5- 25.0	A-3(0)	19	NP	84.2	11.1	0.6	4.1	100	69	5	-	-
SS-207	CL	565+00	28.5- 30.0	A-3(0)	17	NP	53.8	37.9	1.2	7.1	92	76	8	-	-
SS-208	CL	565+00	33.5- 35.0	A-3(0)	23	NP	41.4	55.2	1.3	2.0	100	98	3	-	-

SS-201 SS-205
SS-202 SS-206
SS-203 SS-207
SS-204 SS-208

S-502 100' LT

SOFT TO MEDIUM STIFF GRAY SANDY AND SILTY CLAY.

MOIST TO WET (UNDIVIDED COASTAL PLAIN)

ST-15

VERY LOOSE TO MEDIUM DENSE GRAY AND BROWN SAND AND SAND WITH TRACE ORGANIC MATERIAL.

SATURATED (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-215	CL	576+00	0.0- 1.5	A-6(12)	36	14	1.4	10.7	47.7	40.2	100	100	88	-	-
SS-216	CL	576+00	3.5- 5.0	A-6(14)	36	19	1.4	18.1	38.3	42.2	100	100	82	20.6	-
SS-217	CL	576+00	8.5- 10.0	A-7-6(29)	46	27	0.2	0.4	51.2	48.2	100	100	100	-	-
SS-218	CL	576+00	13.5- 15.0	A-6(12)	30	13	1.0	1.6	55.2	42.2	100	100	97	-	-

SS-215
SS-216
SS-217
SS-218

MEDIUM STIFF TO STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TO STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

566+00 567+00 568+00 569+00 570+00 571+00 572+00 573+00 574+00 575+00 576+00 577+00 578+00 579+00

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	44

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

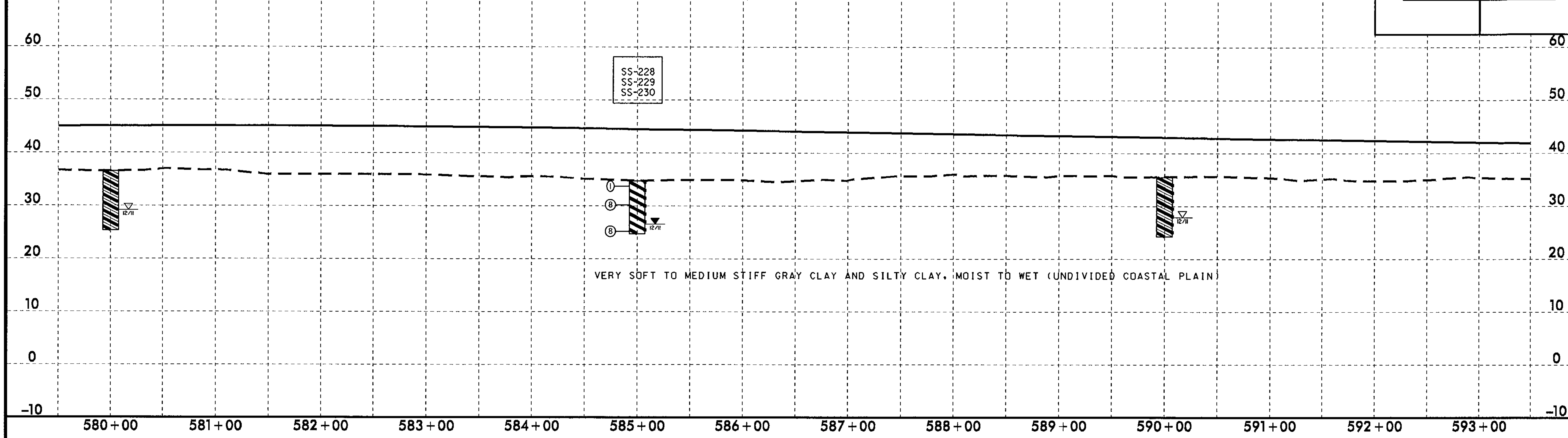
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

5/28/99

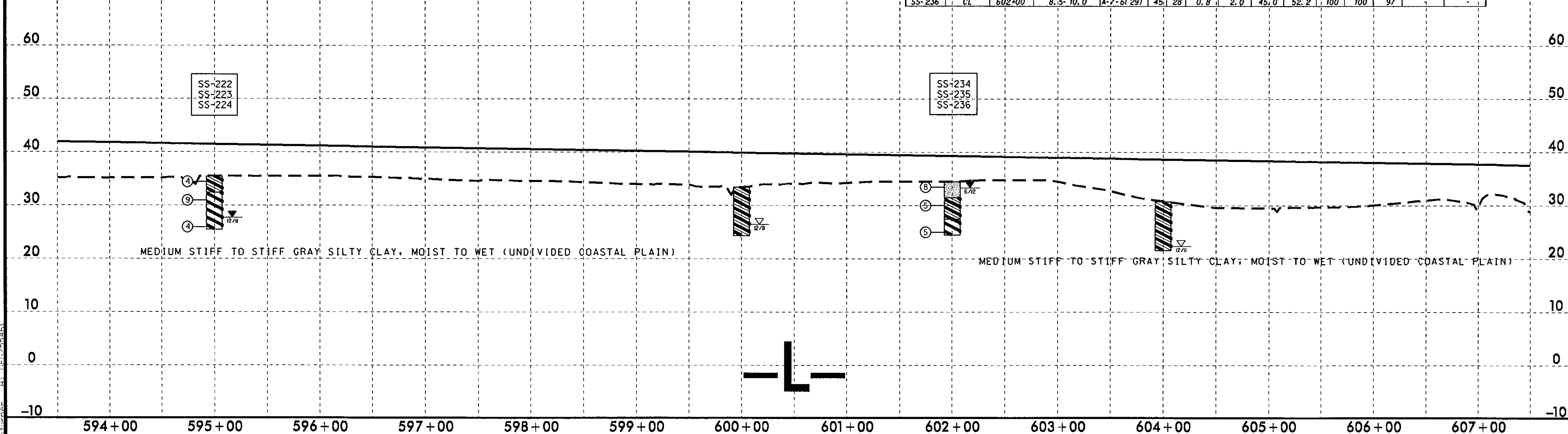
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-228	CL	585+00	0.0-1.5	A-7-6(22)	42	21	0.8	3.2	49.8	46.2	100	100	96	-	-
SS-229	CL	585+00	3.5-5.0	A-7-6(27)	48	25	0.8	3.2	33.7	62.2	100	100	96	33.7	-
SS-230	CL	585+00	8.5-10.0	A-7-6(30)	51	34	1.8	14.3	19.7	64.3	100	99	85	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-222	CL	595+00	0.0-1.5	A-6(16)	38	17	1.8	7.0	42.9	48.2	100	99	91	-	-
SS-223	CL	595+00	3.5-5.0	A-7-6(25)	54	36	2.8	19.9	27.0	50.3	94	94	73	27.4	-
SS-224	CL	595+00	8.5-10.0	A-7-6(40)	56	36	0.4	0.4	30.9	68.3	100	100	99	-	-
SS-234	CL	602+00	0.0-1.5	A-4(5)	30	5	2.6	7.6	57.6	32.1	100	99	90	-	-
SS-235	CL	602+00	3.5-5.0	A-6(6)	33	12	4.4	26.5	34.9	34.1	96	94	67	-	-
SS-236	CL	602+00	8.5-10.0	A-7-6(29)	45	28	0.8	2.0	45.0	52.2	100	100	97	-	-



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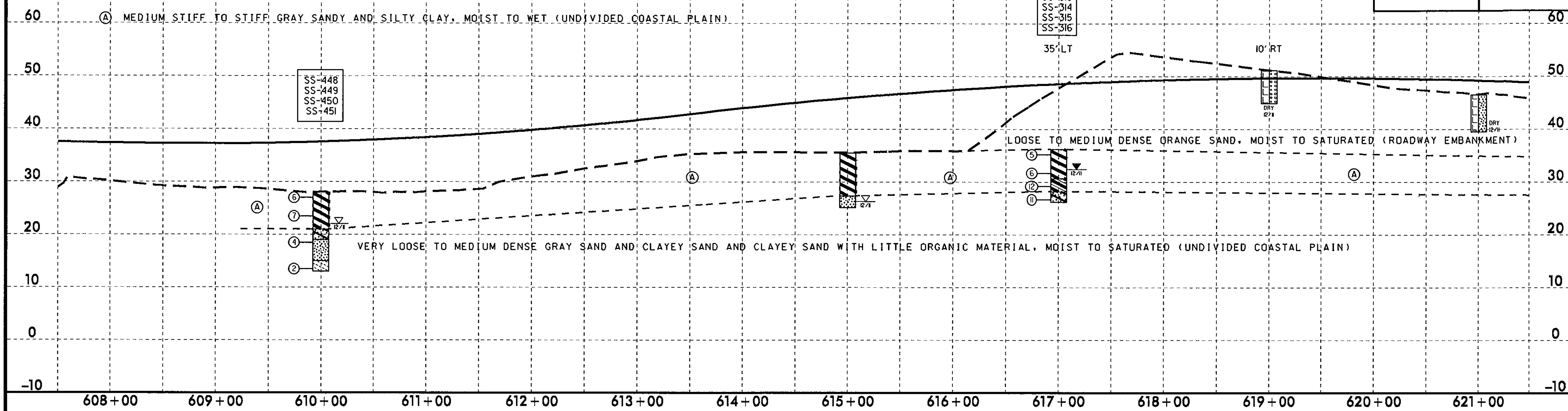
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	45
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) 40	% PASSING (SIEVES) 200	% MOISTURE	% ORGANIC
SS-448	CL	610+00	0.0-1.5	A-7-6(32)	57	28	1.8	2.4	31.4	64.4	100	99	96	-	-
SS-449	CL	610+00	3.5-5.0	A-7-6(36)	57	32	0.8	2.0	32.8	64.4	100	100	98	-	-
SS-450	CL	610+00	8.5-10.0	A-2-6(1)	29	15	51.5	18.9	9.5	20.1	100	80	30	-	-
SS-451	CL	610+00	13.5-15.0	A-2-6(1)	29	13	31.1	35.5	5.2	28.2	100	93	34	-	-
SS-313	35 LT	617+00	0.0-1.5	A-7-6(32)	53	34	3.6	11.6	28.7	56.1	100	98	89	24.7	-
SS-314	35 LT	617+00	3.5-5.0	A-7-6(19)	42	24	6.6	14.0	31.3	48.1	100	98	82	-	-
SS-315	35 LT	617+00	6.0-7.5	A-6(12)	38	21	10.8	22.0	21.0	46.1	100	96	69	-	-
SS-316	35 LT	617+00	8.5-10.0	A-2-6(0)	27	11	23.8	44.1	8.0	24.0	100	91	34	-	-



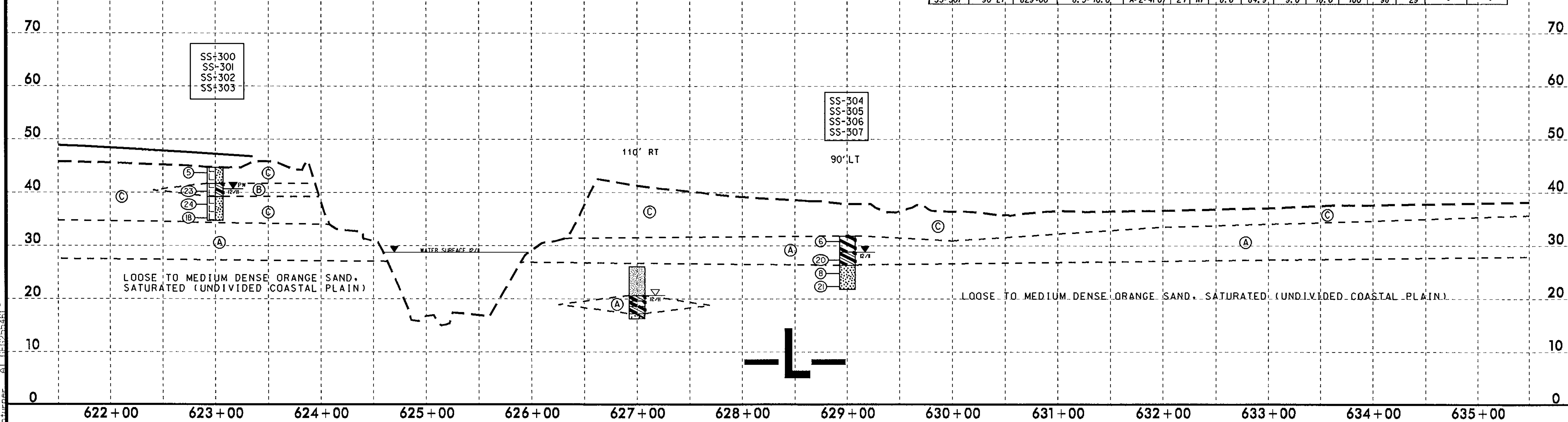
Ⓐ SOFT TO VERY STIFF GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

Ⓑ VERY STIFF ORANGE SANDY CLAY, MOIST TO WET (ROADWAY EMBANKMENT)

Ⓒ LOOSE TO MEDIUM DENSE ORANGE SAND, MOIST TO SATURATED (ROADWAY EMBANKMENT)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) 40	% PASSING (SIEVES) 200	% MOISTURE	% ORGANIC
SS-300	CL	623+00	0.0-1.5	A-2-4(0)	17	NP	56.7	30.1	7.2	6.0	91	67	14	15.4	-
SS-301	CL	623+00	3.5-5.0	A-6(4)	31	14	25.7	25.7	16.6	32.1	100	88	51	10.9	-
SS-302	CL	623+00	6.0-7.5	A-2-4(0)	17	1	28.9	41.9	13.2	16.0	99	90	31	-	-
SS-303	CL	623+00	8.5-10.0	A-2-4(0)	21	NP	46.5	40.5	5.0	8.0	99	84	15	-	-
SS-304	90 LT	629+00	0.0-1.5	A-7-6(31)	54	35	1.4	15.6	24.8	58.1	100	100	85	26.0	-
SS-305	90 LT	629+00	3.5-5.0	A-6(0)	25	11	18.0	48.7	9.2	24.0	100	97	36	20.0	-
SS-306	90 LT	629+00	6.0-7.5	A-2-4(0)	20	1	18.6	56.7	8.6	16.0	100	94	27	-	-
SS-307	90 LT	629+00	8.5-10.0	A-2-4(0)	21	NP	8.0	64.9	9.0	18.0	100	98	29	-	-



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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	46
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-308	80 LT	636+00	0.0- 1.5	A-7-6(30)	51	28	1.2	6.8	27.9	64.1	100	100	96	19.0	-
SS-309	80 LT	636+00	3.5- 5.0	A-6(19)	40	21	21.4	11.0	38.5	48.1	100	99	89	29.0	-
SS-310	80 LT	636+00	6.0- 7.5	A-7-6(14)	42	26	4.6	32.1	17.2	46.1	100	98	65	-	-
SS-311	80 LT	636+00	8.5- 10.0	A-2-4(0)	17	NP	67.3	19.2	5.4	8.0	100	69	15	-	-
SS-312	80 LT	636+00	13.5- 15.0	A-2-4(0)	21	3	51.7	31.3	9.0	8.0	95	72	20	-	-

Ⓐ MEDIUM STIFF GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

Ⓒ LOOSE TO MEDIUM DENSE ORANGE SAND, MOIST TO SATURATED (ROADWAY EMBANKMENT)

SS-308
SS-309
SS-310
SS-311
SS-312

80' LT

⑤ ⑦ ③ ⑥ ⑧

12"/ft

LOOSE ORANGE SAND, SATURATED (UNDIVIDED COASTAL PLAIN)

636+00 637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00

650+00 651+00

90 80 70 60 50 40 30 20 10 0

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	47

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

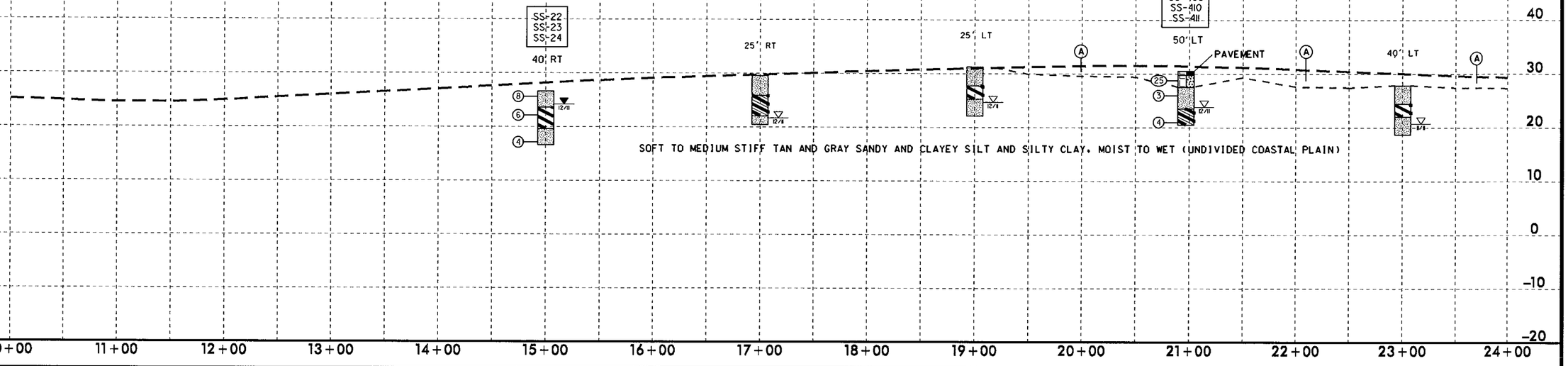
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-22	40 LT	15+00	0.0-1.5	A-4(1)	22	3	0.8	4.8	78.3	16.1	100	100	96	-	-
SS-23	40 LT	15+00	3.5-5.0	A-7-6(32)	52	30	0.2	6.2	49.3	44.3	100	100	96	-	-
SS-24	40 LT	15+00	8.5-10.0	A-4(0)	25	6	0.8	55.7	23.3	20.1	100	100	50	-	-
SS-409	50 LT	20+97	0.7-2.2	A-2-4(0)	17	NP	40.1	31.6	18.3	10.1	89	69	26	-	-
SS-410	50 LT	20+97	3.5-5.0	A-4(4)	23	7	1.4	7.6	58.8	32.2	100	99	94	-	-
SS-411	50 LT	20+97	8.5-10.0	A-6(14)	37	18	0.2	24.1	37.5	38.2	100	100	81	-	-

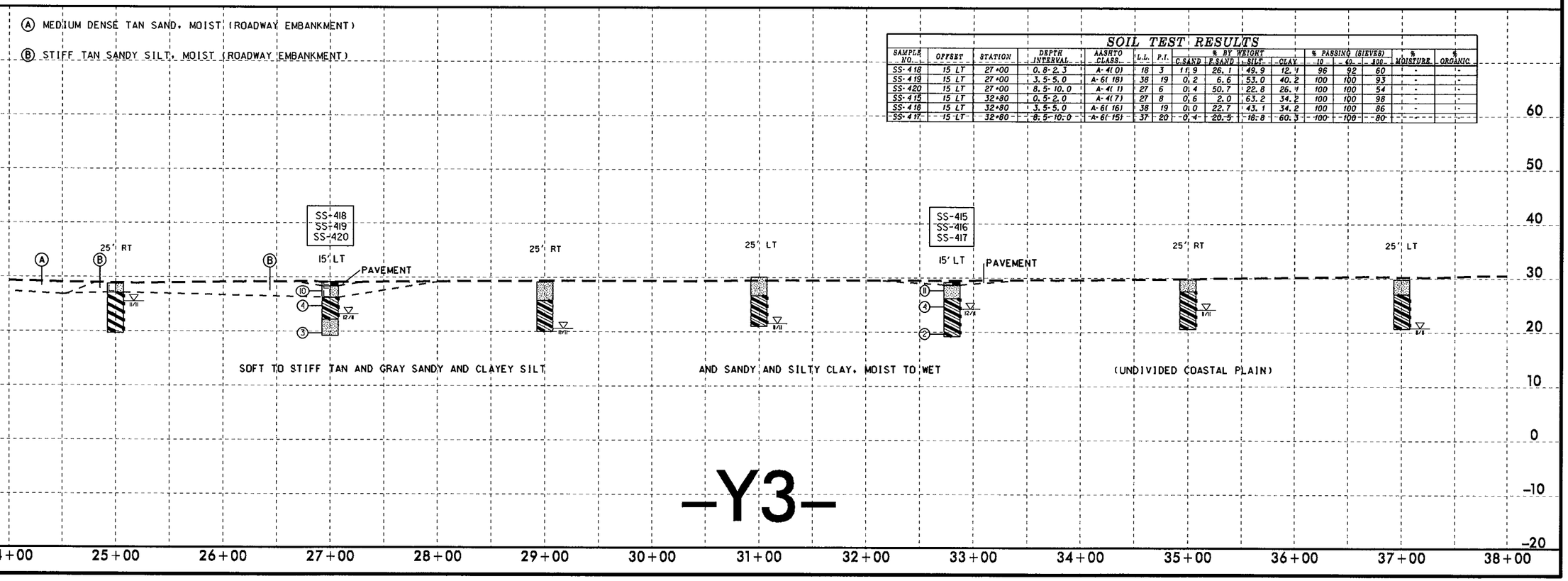


Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

Ⓑ STIFF TAN SANDY SILT, MOIST (ROADWAY EMBANKMENT)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-418	15 LT	27+00	0.8-2.3	A-4(0)	18	3	11.9	26.1	49.9	12.1	96	92	60	-	-
SS-419	15 LT	27+00	3.5-5.0	A-6(18)	38	19	0.2	6.6	53.0	40.2	100	100	93	-	-
SS-420	15 LT	27+00	8.5-10.0	A-4(1)	27	6	0.4	50.7	22.8	26.1	100	100	54	-	-
SS-415	15 LT	32+80	0.5-2.0	A-4(7)	27	8	0.6	2.0	63.2	34.2	100	100	98	-	-
SS-416	15 LT	32+80	3.5-5.0	A-6(16)	38	19	0.0	22.7	43.1	34.2	100	100	86	-	-
SS-417	15 LT	32+80	8.5-10.0	A-6(15)	37	20	0.4	20.5	16.8	60.3	100	100	80	-	-



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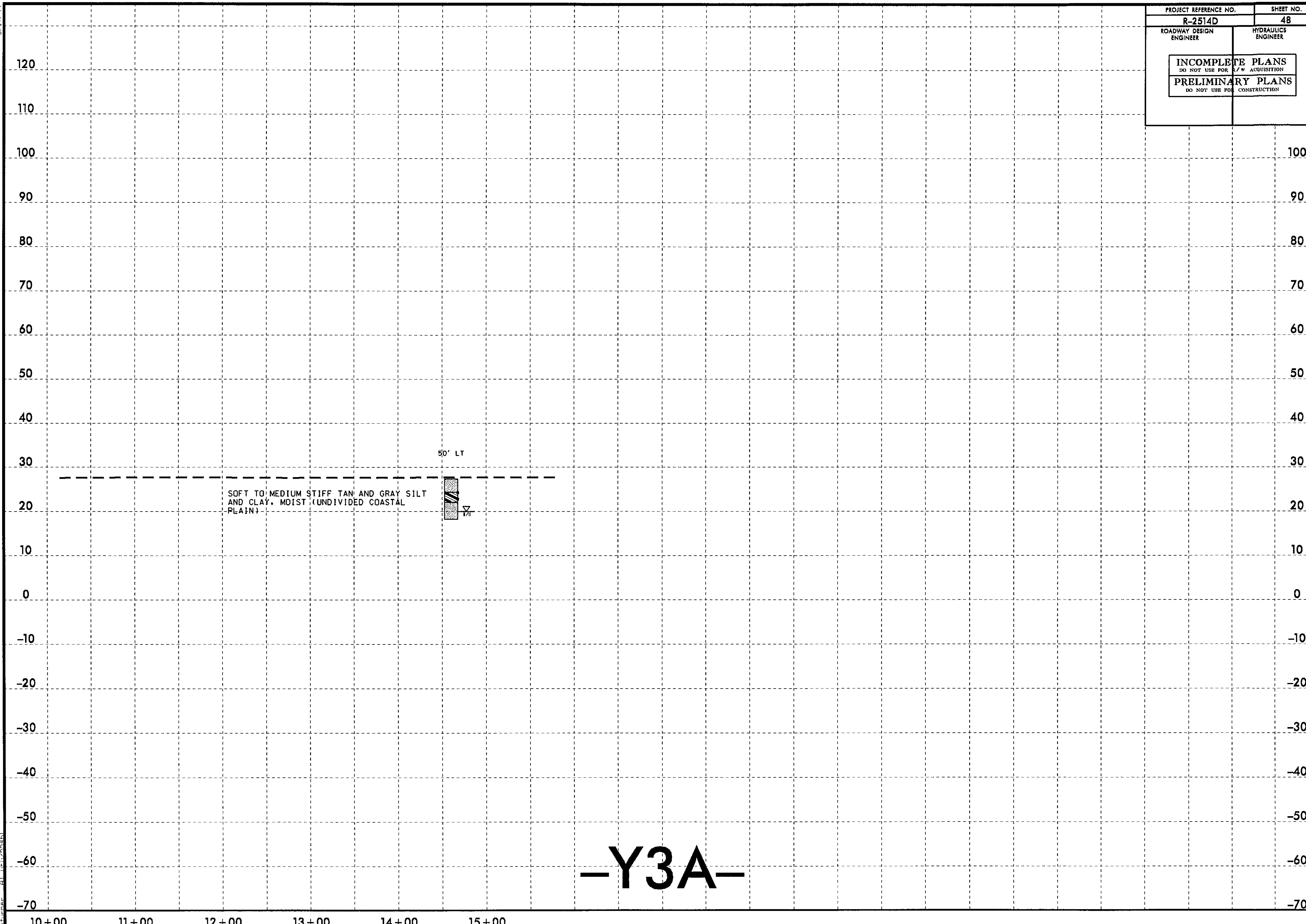
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	48

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	49
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

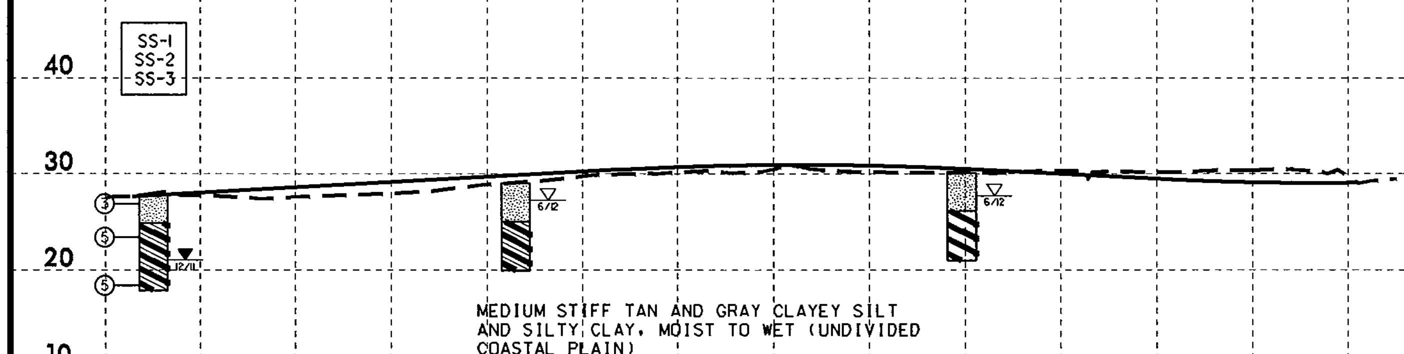
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

5/14/99

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-1	CL	10+25	0.0-1.5	A-4(6)	28	7	0.4	6.4	67.1	26.1	100	100	94	-	-
SS-2	CL	10+25	3.5-5.0	A-6(12)	36	15	0.2	21.1	46.6	32.1	100	100	83	-	-
SS-3	CL	10+25	8.5-10.0	A-6(16)	38	18	0.2	15.5	44.2	40.2	100	100	87	-	-



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Stations: 10+00, 11+00, 12+00, 13+00, 14+00, 15+00, 16+00

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	50
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

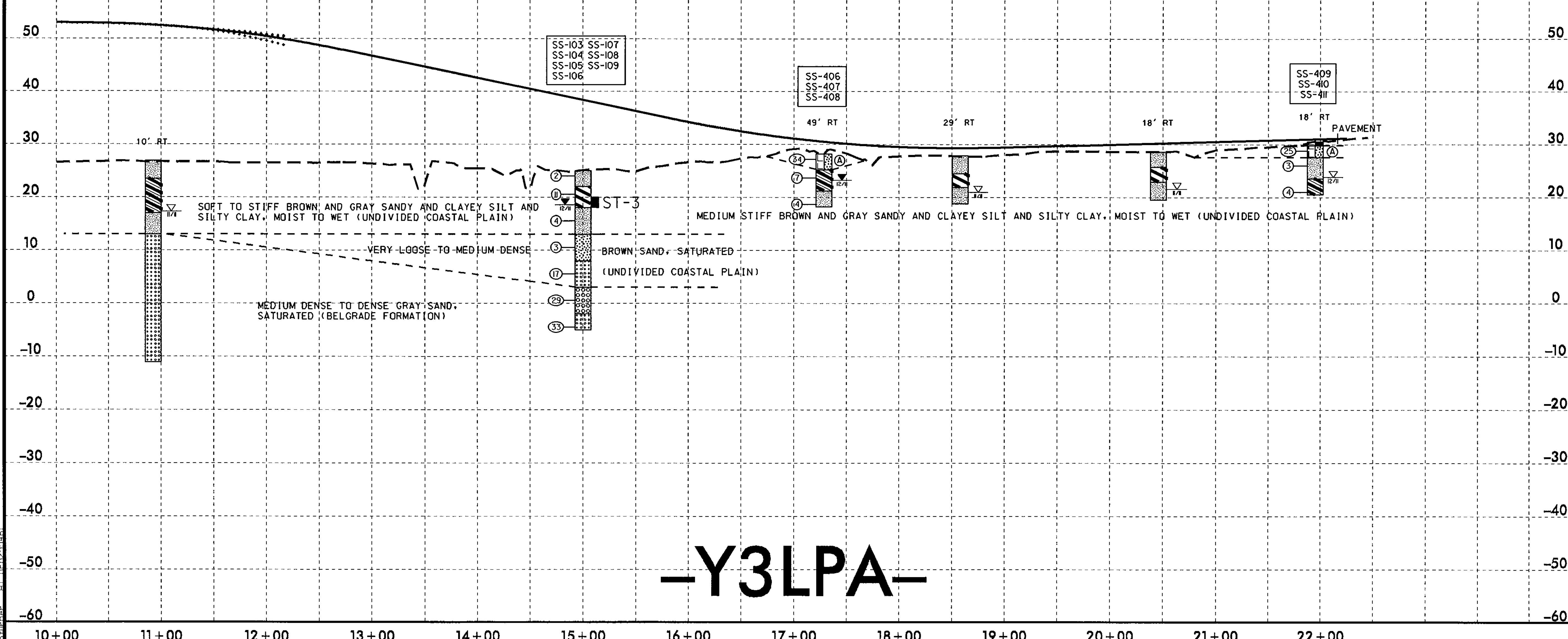
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

Ⓐ MEDIUM DENSE TO DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-103	CL	15+00	0.0-1.5	A-4(3)	24	5	0.8	6.1	66.9	26.2	100	100	94	-	-
SS-104	CL	15+00	3.5-5.0	A-7-6(21)	41	23	0.2	14.9	48.5	36.3	100	100	90	22.8	-
SS-105	CL	15+00	8.5-10.0	A-4(0)	22	3	5.2	54.7	21.9	18.2	100	99	43	-	-
SS-106	CL	15+00	13.5-15.0	A-2-4(0)	19	NP	11.9	61.2	14.8	12.1	100	99	28	-	-
SS-107	CL	15+00	18.5-20.0	A-3(0)	20	NP	40.2	57.1	0.7	2.0	100	93	3	-	-
SS-108	CL	15+00	23.5-25.0	A-1-b(0)	19	NP	88.4	9.7	1.9	0.0	96	47	2	-	-
SS-109	CL	15+00	28.5-30.0	A-3(0)	20	NP	61.5	35.3	2.2	1.0	99	90	3	-	-
SS-406	49 RT	17+28	0.0-1.5	A-2-4(0)	20	NP	33.2	35.4	17.4	14.1	76	58	25	-	-
SS-407	49 RT	17+28	3.5-5.0	A-6(17)	36	17	0.2	5.0	54.6	40.2	100	100	96	-	-
SS-408	49 RT	17+28	8.5-10.0	A-4(0)	24	4	1.0	47.0	27.8	24.1	100	100	57	-	-
SS-409	18 RT	21+95	0.7-2.2	A-2-4(0)	17	NP	40.1	31.6	18.3	10.1	89	69	26	-	-
SS-410	18 RT	21+95	3.5-5.0	A-4(4)	23	7	1.4	7.6	58.8	32.2	100	99	94	-	-
SS-411	18 RT	21+95	8.5-10.0	A-6(14)	37	18	0.2	24.1	37.5	38.2	100	100	81	-	-



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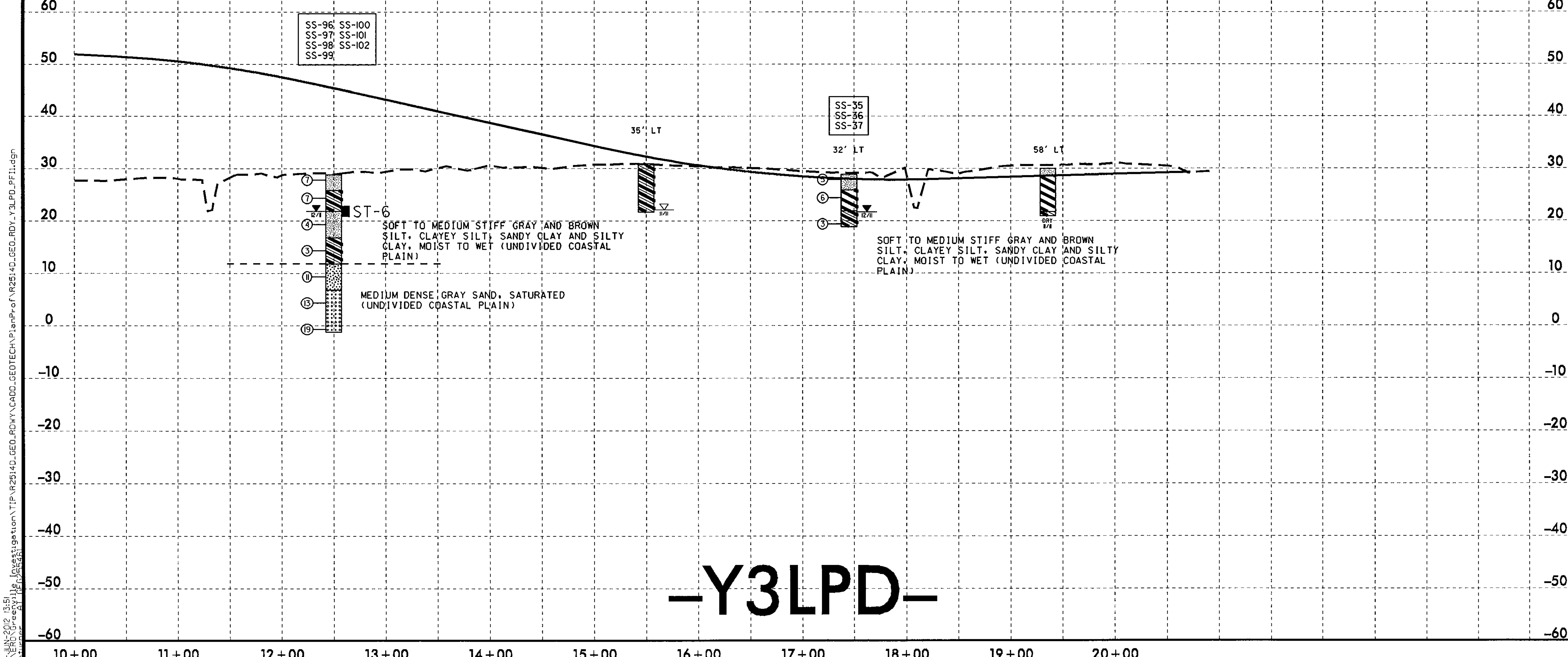
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) 40	% PASSING (SIEVES) 200	% MOISTURE	% ORGANIC
SS-96	CL	12+50	0.0-1.5	A-4(3)	28	3	0.8	4.6	80.4	14.1	100	100	95	-	-
SS-97	CL	12+50	3.5-5.0	A-6(15)	35	15	0.2	6.5	61.0	32.3	100	100	95	-	-
SS-98	CL	12+50	8.5-10.0	A-4(5)	30	10	1.2	34.3	38.2	26.2	100	99	68	-	-
SS-99	CL	12+50	13.5-15.0	A-6(3)	26	12	4.2	45.4	24.1	26.2	100	99	52	-	-
SS-100	CL	12+50	18.5-20.0	A-2-4(0)	21	NP	24.4	47.4	14.0	14.1	99	93	29	-	5.3
SS-101	CL	12+50	23.5-25.0	A-3(0)	18	NP	74.4	22.9	0.7	2.0	100	77	3	-	-
SS-102	CL	12+50	28.5-30.0	A-3(0)	18	NP	67.4	30.9	0.7	1.0	99	88	2	-	-
SS-35	32 LT	17+45	0.0-1.5	A-4(6)	30	6	2.2	2.4	71.2	24.1	100	99	96	-	-
SS-36	32 LT	17+45	3.5-5.0	A-7-6(24)	44	22	0.4	1.6	53.7	44.3	100	100	98	-	-
SS-37	32 LT	17+45	8.5-10.0	A-6(9)	36	17	1.4	33.2	25.2	40.2	95	94	65	-	-



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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	52
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, MOIST TO WET (ALLUVIAL)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-45	CL	15+00	0.0-1.5	A-4(7)	26	9	0.8	9.3	61.8	28.2	100	100	92	-	-
SS-46	CL	15+00	3.5-5.0	A-6(11)	32	13	0.2	17.1	54.5	28.2	100	100	88	-	-
SS-47	CL	15+00	8.5-10.0	A-7-6(22)	41	23	1.2	9.5	43.1	46.3	100	99	92	-	-

SS-45
SS-46
SS-47

MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

60 50 40 30 20 10 0 -10 -20

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-406	CL	25+50	0.0-1.5	A-2-4(0)	20	NP	33.2	35.4	17.4	14.1	76	58	25	-	-
SS-407	CL	25+50	3.5-5.0	A-6(17)	36	17	0.2	5.0	54.6	40.2	100	100	96	-	-
SS-408	CL	25+50	8.5-10.0	A-4(0)	24	4	11.0	47.0	27.8	24.1	100	100	57	-	-
SS-409	CL	30+49	0.7-2.2	A-2-4(0)	17	NP	40.1	31.6	18.3	10.1	89	69	26	-	-
SS-410	CL	30+49	3.5-5.0	A-4(4)	23	7	11.4	7.6	58.8	32.2	100	99	94	-	-
SS-411	CL	30+49	8.5-10.0	A-6(14)	37	18	0.2	24.1	37.5	38.2	100	100	81	-	-

Ⓑ MEDIUM DENSE TO DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SS-406
SS-407
SS-408

SS-409
SS-410
SS-411

PAVEMENT

MEDIUM STIFF TO STIFF BROWN, GRAY AND ORANGE SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

60 50 40 30 20 10 0 -10 -20

24+00 25+00 26+00 27+00 28+00 29+00 30+00

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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	53
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

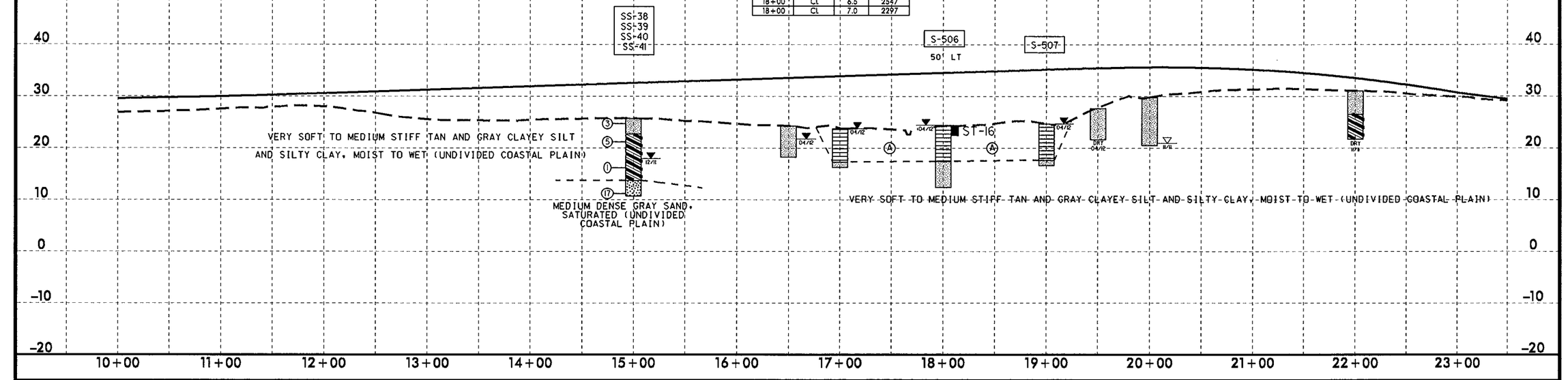
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-38	CL	15+00	0.0-1.5	A-4(4)	25	5	0.6	5.6	71.6	22.1	100	100	95	-	-
SS-39	CL	15+00	3.5-5.0	A-6(16)	38	19	0.0	24.7	41.0	34.2	100	100	85	-	-
SS-40	CL	15+00	8.5-10.0	A-6(15)	40	20	8.0	12.5	31.4	48.3	97	97	78	-	-
SS-41	CL	15+00	18.5-20.0	A-2-4(0)	22	NP	0.6	73.8	15.5	10.1	100	100	30	-	-

(A) VERY SOFT TO VERY STIFF BROWN CLAY WITH LITTLE ORGANIC MATERIAL, MOIST TO WET (ALLUVIAL)

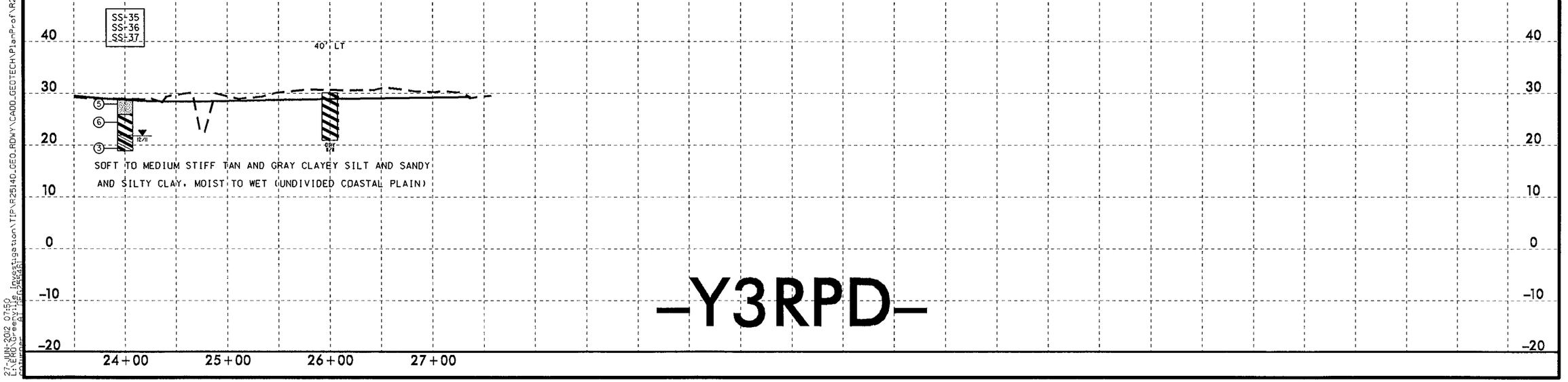
VANE SHEAR TESTS

STATION	OFFSET	DEPTH	SR (psf)
18+60	CL	0.5	167
18+00	CL	1.0	251
18+00	CL	1.5	376
18+00	CL	2.0	501
18+00	CL	2.5	626
18+00	CL	3.0	1190
18+00	CL	3.5	459
18+00	CL	4.0	835
18+00	CL	4.5	1107
18+00	CL	5.0	981
18+00	CL	5.5	1441
18+00	CL	6.0	1253
18+00	CL	6.5	2547
18+00	CL	7.0	2297



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-35	CL	24+00	0.0-1.5	A-4(6)	30	6	2.2	2.4	71.2	24.1	100	99	96	-	-
SS-36	CL	24+00	3.5-5.0	A-7-6(24)	44	22	0.4	1.6	53.7	44.3	100	100	98	-	-
SS-37	CL	24+00	8.5-10.0	A-6(9)	36	17	1.4	33.2	25.2	40.2	95	94	65	-	-



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	54
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

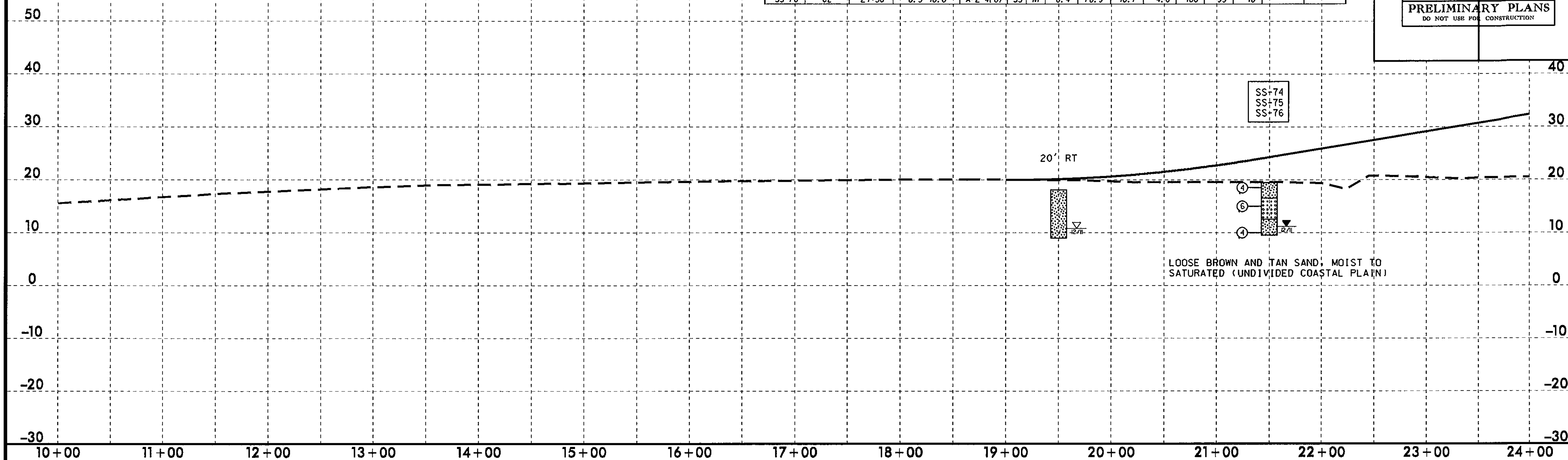
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

5/28/99

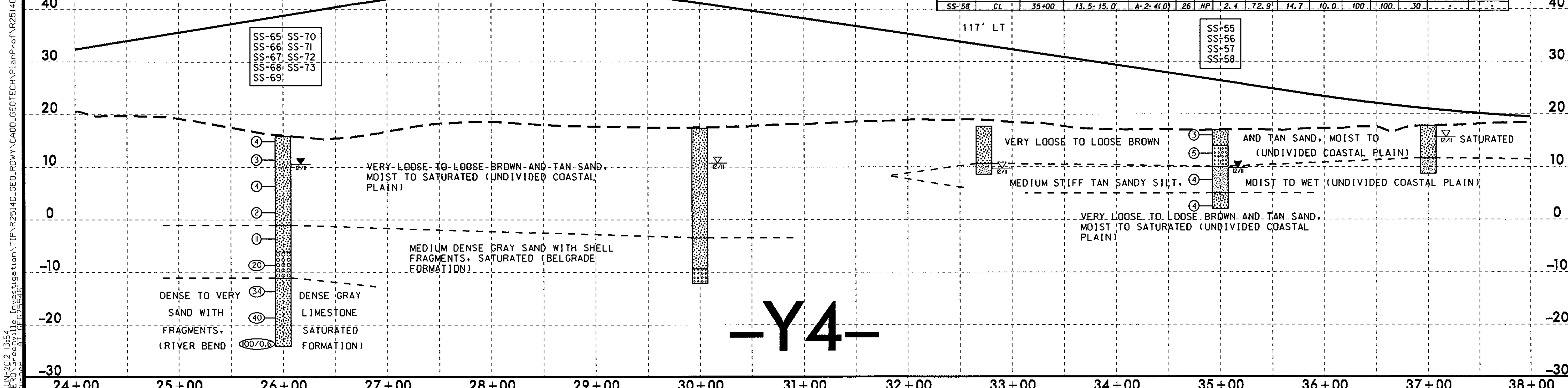
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-74	CL	21+50	0.0-1.5	A-2-4(0)	20	NP	6.8	62.8	14.3	16.1	100	98	32	-	-
SS-75	CL	21+50	3.5-5.0	A-3(0)	22	NP	32.4	62.2	3.4	2.0	100	94	6	-	-
SS-76	CL	21+50	8.5-10.0	A-2-4(0)	33	NP	6.4	78.9	10.7	4.0	100	99	18	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-65	CL	26+00	0.0-1.5	A-2-4(0)	19	NP	10.0	68.7	11.3	10.0	100	98	24	-	-
SS-66	CL	26+00	3.5-5.0	A-2-4(0)	28	NP	4.0	73.8	12.1	10.1	100	99	28	-	-
SS-67	CL	26+00	8.5-10.0	A-2-4(0)	28	NP	1.8	77.1	11.1	10.1	100	100	28	-	-
SS-68	CL	26+00	13.5-15.0	A-2-4(0)	29	NP	19.3	71.2	5.4	4.0	100	97	11	-	-
SS-69	CL	26+00	18.5-20.0	A-2-4(0)	19	NP	27.6	11.3	55.1	6.0	43	35	28	-	-
SS-70	CL	26+00	23.5-25.0	A-1-b(0)	19	NP	38.2	40.6	13.1	8.0	57	40	12	-	-
SS-71	CL	26+00	28.5-30.0	A-2-4(0)	29	NP	6.8	81.3	5.8	6.0	90	87	11	-	-
SS-72	CL	26+00	33.5-35.0	A-2-4(0)	26	NP	4.8	84.5	4.6	6.0	100	99	12	-	-
SS-73	CL	26+00	38.5-40.0	A-2-4(0)	24	NP	14.9	27.4	55.7	2.0	46	41	27	-	-
SS-55	CL	35+00	0.0-1.5	A-2-4(0)	19	NP	9.2	69.3	13.5	8.0	100	97	23	-	-
SS-56	CL	35+00	3.5-5.0	A-3(0)	20	NP	24.4	70.5	3.1	2.0	100	93	6	-	-
SS-57	CL	35+00	8.5-10.0	A-4(0)	29	NP	0.8	70.9	16.3	12.0	100	100	36	-	-
SS-58	CL	35+00	13.5-15.0	A-2-4(0)	26	NP	2.4	72.9	14.7	10.0	100	100	30	-	-



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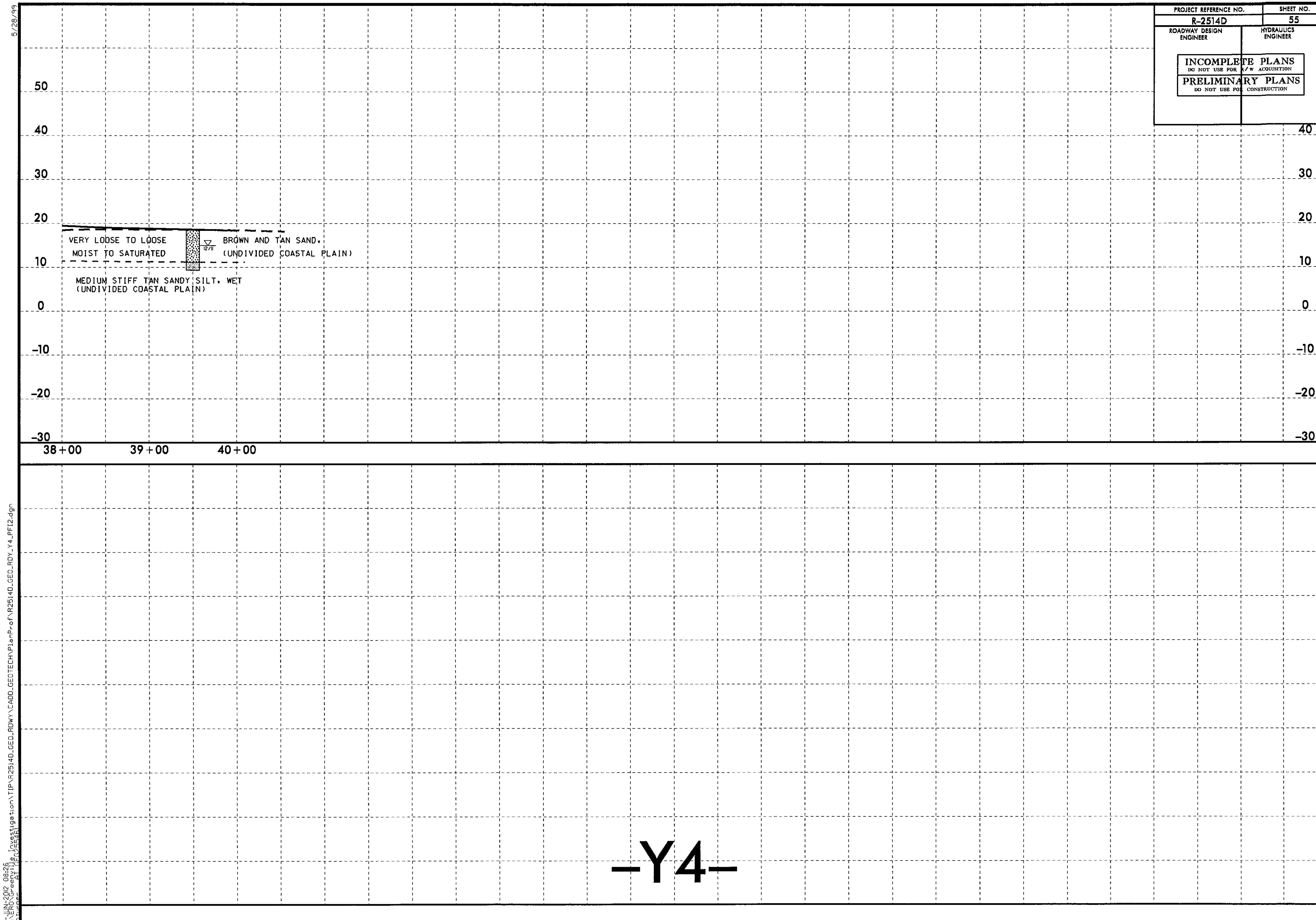
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	55
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	56
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60

LOOSE TO MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT TO STIFF GRAY SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

-Y5-

10+00 11+00 12+00 13+00 14+00 15+00 16+00

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	57
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60

Ⓐ LOOSE TO MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

13' LT

6/6

SOFT TO MEDIUM STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

-Y6-

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	58
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-198	CL	11+00	0.0-1.5	A-7-6(18)	44	20	1.6	13.8	36.0	48.6	100	100	85	25.2	-
SS-199	CL	11+00	3.5-5.0	A-7-6(18)	50	26	1.2	28.2	17.9	52.7	100	100	71	-	-
SS-200	CL	11+00	8.5-10.0	A-7-6(21)	42	22	1.4	9.3	52.8	36.5	100	100	90	-	-
SS-209	CL	17+00	0.0-1.5	A-6(17)	40	17	1.0	8.1	46.3	44.6	100	100	91	-	-
SS-210	CL	17+00	3.5-5.0		-	-	1.6	13.6	38.2	46.6	100	99	86	26.1	-
SS-211	CL	17+00	8.5-10.0	A-6(14)	40	23	7.7	23.1	26.6	42.6	100	98	70	-	-
SS-212	CL	23+00	0.0-1.5	A-7-6(20)	44	24	1.4	15.8	38.2	44.6	100	100	84	19.3	-
SS-213	CL	23+00	3.5-5.0		-	-	1.4	14.8	37.2	46.6	100	100	85	-	-
SS-214	CL	23+00	8.5-10.0	A-7-6(30)	50	28	1.2	1.6	56.6	40.5	100	99	97	-	-

SS-198
SS-199
SS-200

SS-209
SS-210
SS-211

SS-212
SS-213
SS-214

SOFT TO STIFF TAN AND GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

SOFT TO STIFF TAN AND GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

SOFT TO STIFF TAN AND GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-219	CL	29+00	0.0-1.5	A-4(6)	29	8	2.4	14.3	49.1	34.2	100	99	84	-	-
SS-220	CL	29+00	3.5-5.0	A-6(15)	37	17	1.8	12.1	37.9	48.2	100	100	87	24.2	-
SS-221	CL	29+00	8.5-10.0	A-6(15)	35	14	0.4	0.4	65.0	34.2	100	100	99	-	-
SS-225	CL	35+00	0.0-1.5	A-6(12)	37	13	1.6	12.9	41.3	44.2	100	100	86	-	-
SS-226	CL	35+00	3.5-5.0	A-7-6(28)	51	31	1.6	12.7	27.4	58.3	100	100	86	26.9	-
SS-227	CL	35+00	8.5-10.0	A-6(18)	36	19	1.4	5.8	56.6	36.1	100	99	94	-	-

SS-219
SS-220
SS-221

SS-225
SS-226
SS-227

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00

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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	59

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-231	CL	41+00	0.0- 1.5	A-7-6(18)	42	19	2.6	7.8	45.4	44.2	100	99	90	-	-
SS-232	CL	41+00	3.5- 5.0	A-7-6(23)	46	28	3.0	15.1	29.7	52.2	100	99	82	34.5	-
SS-233	CL	41+00	8.5- 10.0	A-7-6(24)	42	22	0.4	0.4	57.0	42.2	100	100	99	-	-
SS-240	CL	47+00	0.0- 1.5	A-4(8)	32	9	2.0	7.0	52.8	38.2	100	99	91	-	-
SS-241	CL	47+00	3.5- 5.0	A-6(14)	35	17	3.4	12.2	38.2	46.2	100	99	85	25.5	-
SS-242	CL	47+00	8.5- 10.0	A-7-6(30)	51	32	4.8	6.0	45.0	44.2	100	98	89	-	-

SS-231
SS-232
SS-233

SS-240
SS-241
SS-242

MEDIUM STIFF TO STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TO STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM STIFF TO STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-237	CL	53+00	0.0- 1.5	A-4(2)	26	3	2.4	9.4	54.0	34.1	100	99	89	-	-
SS-238	CL	53+00	3.5- 5.0	A-7-6(18)	44	25	0.6	24.3	22.9	52.2	100	100	76	30.9	-
SS-239	CL	53+00	8.5- 10.0	A-6(4)	29	15	7.8	40.8	17.3	34.1	100	99	52	-	-

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SS-237
SS-238
SS-239

MEDIUM STIFF TO STIFF TAN AND GRAY CLAYEY SILT AND SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

70 60 50 40 30 20 10 0 -10

52+00 53+00 54+00 55+00 56+00 57+00 58+00

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	60
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-424	80 LT	22+00	0.0- 1.5	A-6(12)	36	20	7.4	21.1	33.3	38.2	100	98	72	-	-
SS-425	80 LT	22+00	3.5- 5.0	A-6(4)	32	14	7.8	33.4	36.7	22.1	100	98	60	-	-
SS-426	80 LT	22+00	8.5- 10.0	A-7-6(34)	58	32	4.0	3.8	33.9	56.3	100	99	93	-	-
SS-427	80 LT	22+00	13.5- 15.0	A-7-6(22)	45	27	5.8	14.1	25.8	54.3	100	98	81	-	-

SS-424
SS-425
SS-426
SS-427

80' LT

MEDIUM DENSE TAN SAND, MOIST TO SATURATED (ROADWAY EMBANKMENT)

MEDIUM DENSE TAN SAND, MOIST TO SATURATED (ROADWAY EMBANKMENT)

MEDIUM STIFF TO STIFF BROWN AND ORANGE SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

12/8

5 7 9 6

12/8

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	61
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-428	20 LT	24+00	0.0-1.5	A-6(11)	31	12	2.4	5.2	56.2	36.2	100	99	93	20.1	-
SS-429	20 LT	24+00	3.5-5.0	A-7-6(25)	50	29	3.6	12.7	29.4	54.3	100	99	84	31.7	-
SS-430	20 LT	24+00	8.5-10.0	A-4(0)	24	8	10.1	53.3	12.6	24.1	100	99	37	-	-
SS-431	20 LT	24+00	13.5-15.0	A-2-6(0)	25	12	46.4	23.5	9.9	20.1	95	74	29	-	-
SS-432	20 LT	24+00	18.5-20.0	A-3(0)	23	NP	37.6	56.3	1.1	5.0	100	98	6	-	-
SS-433	20 LT	24+00	23.5-25.0	A-2-4(0)	17	NP	34.6	34.0	23.4	8.0	76	64	24	-	-
SS-434	20 LT	24+00	28.5-30.0	A-2-4(0)	19	NP	8.0	66.9	17.0	8.0	88	85	22	-	-
SS-435	20 LT	24+00	33.5-35.0	A-2-4(0)	21	NP	1.3	82.4	12.3	4.0	100	100	17	-	-
SS-436	20 LT	24+00	38.5-40.0	A-2-4(0)	23	NP	0.6	83.2	11.2	5.0	100	100	17	-	-
SS-437	20 LT	24+00	43.5-45.0	A-2-4(0)	24	NP	0.7	82.6	11.7	5.0	100	100	18	-	-
SS-256	CL	30+00	0.0-1.5	A-4(5)	29	5	1.8	7.4	60.7	30.1	100	99	93	-	-
SS-257	CL	30+00	3.5-5.0	A-6(19)	40	22	3.6	12.2	34.1	50.1	100	99	86	-	-
SS-258	CL	30+00	8.5-10.0	A-6(10)	35	21	14.0	24.2	21.6	40.1	100	94	64	-	-
SS-259	CL	30+00	13.5-15.0	A-4(0)	21	10	36.5	28.5	11.0	24.0	100	84	37	-	2.2
SS-260	CL	30+00	18.5-20.0	A-2-4(0)	25	NP	52.5	29.5	6.0	12.0	97	74	19	-	3.3
SS-261	CL	30+00	23.5-25.0	A-3(0)	24	NP	33.3	62.7	4.0	0.0	100	97	6	-	-
SS-262	CL	30+00	28.5-30.0	A-3(0)	28	NP	3.4	89.2	5.4	2.0	100	99	10	-	-
SS-263	CL	30+00	33.5-35.0	A-3(0)	27	NP	3.2	90.4	4.4	2.0	100	99	9	-	-
SS-264	CL	30+00	38.5-40.0	A-3(0)	26	NP	3.4	90.6	6.0	0.0	100	99	8	-	-
SS-265	CL	30+00	43.5-45.0	A-3(0)	27	NP	1.4	93.4	5.2	0.0	100	100	7	-	-
SS-266	CL	30+00	48.5-50.0	A-3(0)	26	NP	4.4	89.8	5.8	0.0	100	98	8	-	-

Ⓐ VERY LOOSE GRAY SAND WITH LITTLE ORGANIC MATERIAL, SATURATED (UNDIVIDED COASTAL PLAIN)

SS-428 SS-433
SS-429 SS-434
SS-430 SS-435
SS-431 SS-436
SS-432 SS-437

SS-256 SS-262
SS-257 SS-263
SS-258 SS-264
SS-259 SS-265
SS-260 SS-266
SS-261

20' LT

ST-11

MEDIUM STIFF TO STIFF ORANGE, GRAY AND AND SILTY CLAY, MOIST TO WET (UNDIVIDED

VERY LOOSE TO LOOSE GRAY SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

SOFT GRAY LIMESTONE WITH SAND LAYERS, (RIVER BEND FORMATION)

BROWN SANDY AND CLAYEY SILT AND SANDY COASTAL PLAIN)

LOOSE TO VERY DENSE GRAY SAND, SATURATED (RIVER BEND FORMATION)

ST-10

-Y10-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40

24+00 25+00 26+00 27+00 28+00 29+00 30+00

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	62
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-246	CL	14+00	0.0- 1.5	A-4(2)	24	4	11.8	8.0	52.0	38.2	100	99	91	-	-
SS-247	CL	14+00	3.5- 5.0	A-7-6(32)	52	31	0.8	4.0	30.9	64.3	100	100	95	28.4	-
SS-248	CL	14+00	8.5- 10.0	A-6(3)	27	12	18.3	31.1	16.5	34.1	100	95	51	-	-
SS-249	CL	14+00	13.5- 15.0	A-1-b(0)	17	NP	95.3	3.5	1.2	0.0	100	25	1	-	-
SS-250	53' RT	17+34	0.0- 1.5	A-4(3)	24	6	3.0	12.4	52.4	32.1	100	99	85	27.5	-
SS-251	53' RT	17+34	3.5- 5.0	A-6(15)	39	22	5.8	18.1	31.9	44.2	100	99	76	-	-
SS-252	53' RT	17+34	8.5- 10.0	A-2-4(0)	18	NP	38.5	39.1	10.4	12.0	100	87	24	-	-
SS-253	53' RT	17+34	13.5- 15.0	A-2-4(0)	23	NP	42.1	40.3	9.6	8.0	100	87	20	-	4.6
SS-254	53' RT	17+34	18.5- 20.0	A-2-5(0)	41	NP	36.5	38.1	13.4	12.0	100	93	28	-	-
SS-255	53' RT	17+34	23.5- 25.0	A-3(0)	24	NP	24.4	72.7	2.8	0.0	100	99	5	-	-

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-438	CL	37+00	0.0- 1.5	A-6(14)	35	15	1.4	6.4	45.9	46.2	100	100	92	25.2	-
SS-439	CL	37+00	3.5- 5.0	A-7-6(19)	42	20	1.6	7.4	44.7	46.2	100	99	91	-	-
SS-440	CL	37+00	8.5- 10.0	A-6(18)	40	21	2.8	10.9	40.1	46.2	100	99	87	-	-
SS-441	CL	37+00	13.5- 15.0	A-2-5(0)	41	NP	31.2	34.4	20.4	14.1	100	88	35	-	19.7
SS-442	CL	37+00	18.5- 20.0	A-2-4(0)	16	NP	43.4	39.4	8.1	9.0	100	84	18	-	-
SS-443	CL	37+00	23.5- 25.0	A-2-6(0)	28	12	39.8	34.1	2.0	24.1	100	97	26	-	-
SS-444	CL	37+00	28.5- 30.0	A-3(0)	21	NP	39.2	57.5	2.2	1.0	100	95	3	-	-
SS-445	CL	37+00	33.5- 35.0	A-3(0)	26	NP	0.6	90.9	6.4	2.0	100	100	9	-	-
SS-446	CL	37+00	38.5- 40.0	A-3(0)	26	NP	3.3	90.6	5.0	1.0	100	100	6	-	-
SS-447	CL	37+00	43.5- 45.0	A-3(0)	27	NP	4.7	88.4	5.8	1.0	100	99	7	-	-

Ⓐ VERY LOOSE BROWN MUCK, SATURATED (UNDIVIDED COASTAL PLAIN)

Ⓑ MEDIUM DENSE GRAY SAND WITH LITTLE ORGANIC MATERIAL, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

SS-246
SS-247
SS-248
SS-249

SS-250 SS-253
SS-251 SS-254
SS-252 SS-255

SS-438 SS-443
SS-439 SS-444
SS-440 SS-445
SS-441 SS-446
SS-442 SS-447

53' RT

60' RT

56' RT

MEDIUM STIFF TO STIFF BROWN, TAN AND GRAY CLAYEY SILT AND SANDY AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

LOOSE TO MEDIUM DENSE GRAY SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

LOOSE TO MEDIUM DENSE GRAY SAND, SATURATED (RIVER BEND FORMATION)

MEDIUM STIFF TO STIFF BROWN, TAN AND GRAY CLAYEY SILT AND SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

VERY LOOSE TO DENSE GRAY SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

LOOSE TO MEDIUM DENSE GRAY SAND, SATURATED (RIVER BEND FORMATION)

ST-12

ST-13

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

0 10 20 30 40 50 60 70 80 90

MEDIUM STIFF TO STIFF BROWN, TAN AND GRAY CLAYEY SILT AND SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

VERY LOOSE GRAY SAND, SATURATED (UNDIVIDED COASTAL PLAIN)

LOOSE TO MEDIUM DENSE GRAY SAND, SATURATED (RIVER BEND FORMATION)

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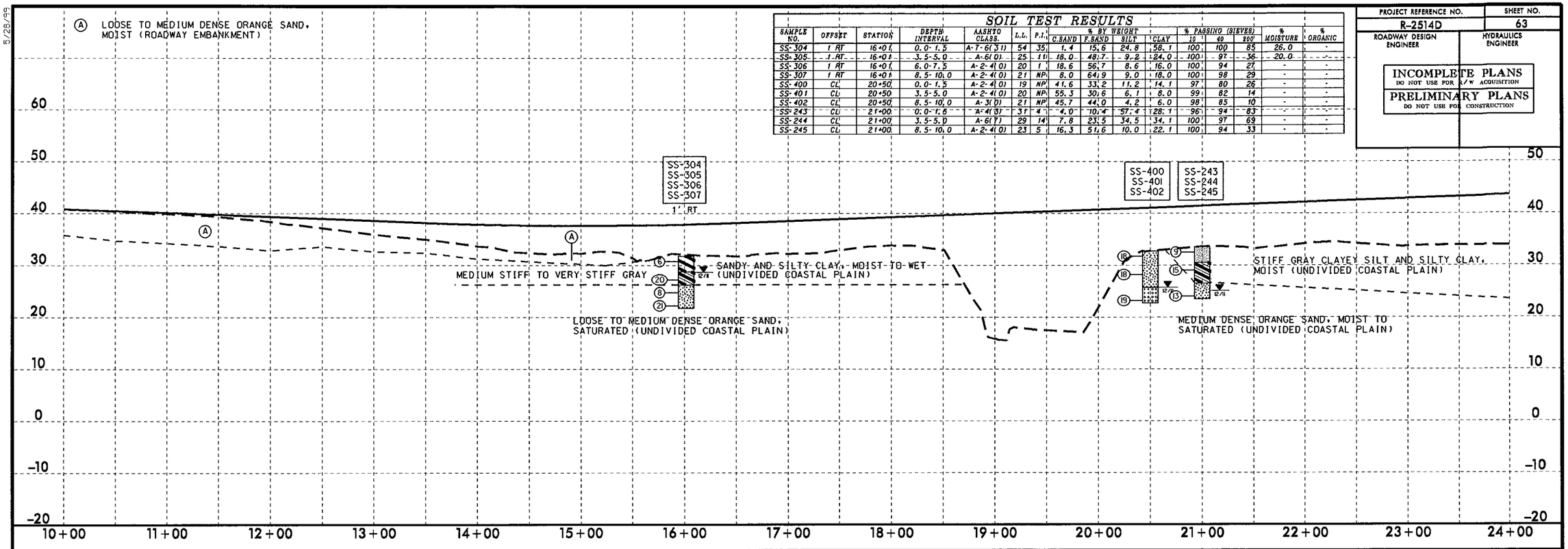
5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	63
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

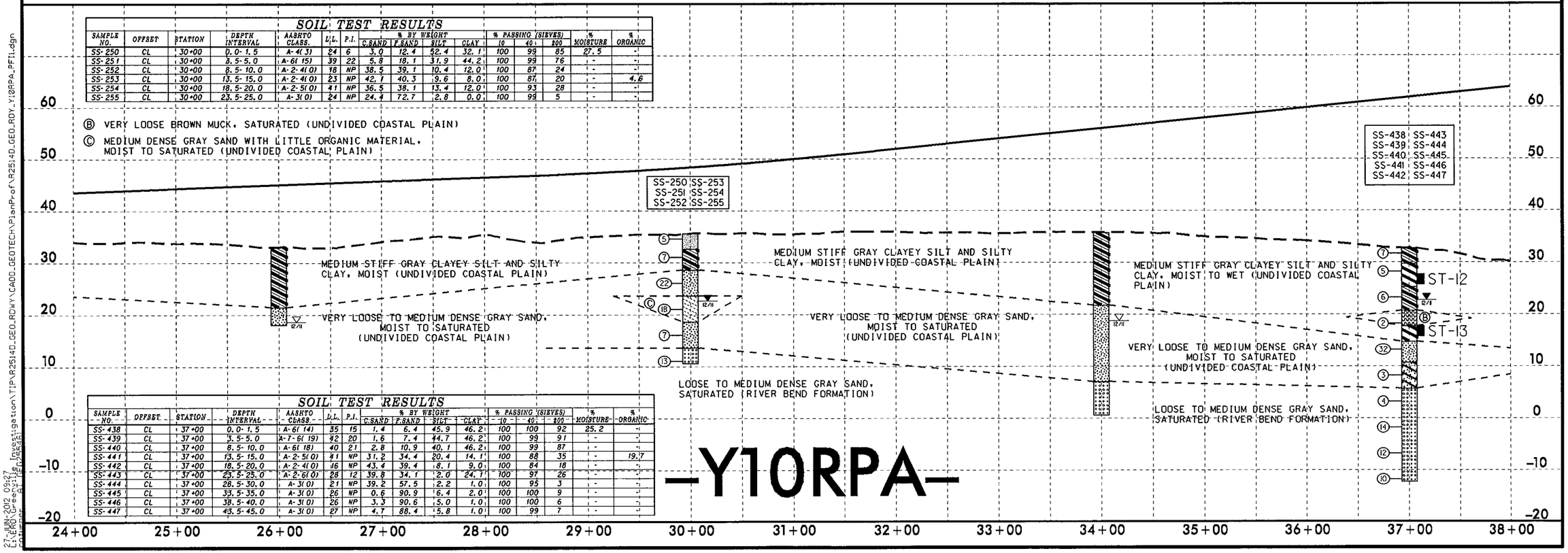
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-304	1 RT	16+01	0.0- 1.5	A-7-6(31)	54	35	1.4	15.6	24.8	58.1	100	100	85	26.0	-
SS-305	1 RT	16+01	3.5- 5.0	A-6(0)	25	11	18.0	48.7	9.2	24.0	100	97	36	20.0	-
SS-306	1 RT	16+01	6.0- 7.5	A-2-4(0)	20	1	18.6	56.7	8.6	16.0	100	94	27	-	-
SS-307	1 RT	16+01	8.5- 10.0	A-2-4(0)	21	NP	8.0	64.9	9.0	18.0	100	98	29	-	-
SS-400	CL	20+50	0.0- 1.5	A-2-4(0)	19	NP	41.6	33.2	11.2	14.1	97	80	26	-	-
SS-401	CL	20+50	3.5- 5.0	A-2-4(0)	20	NP	55.3	30.6	6.1	8.0	99	82	14	-	-
SS-402	CL	20+50	8.5- 10.0	A-3(0)	21	NP	45.7	44.0	4.2	6.0	98	85	10	-	-
SS-243	CL	21+00	0.0- 1.5	A-4(3)	31	4	4.0	10.4	57.4	28.1	96	94	83	-	-
SS-244	CL	21+00	3.5- 5.0	A-6(7)	29	14	7.8	23.5	34.5	34.1	100	97	69	-	-
SS-245	CL	21+00	8.5- 10.0	A-2-4(0)	23	5	16.3	51.6	10.0	22.1	100	94	33	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-250	CL	30+00	0.0- 1.5	A-4(3)	24	6	3.0	12.4	52.4	32.1	100	99	85	27.5	-
SS-251	CL	30+00	3.5- 5.0	A-6(15)	39	22	5.8	18.1	31.9	44.2	100	99	76	-	-
SS-252	CL	30+00	8.5- 10.0	A-2-4(0)	18	NP	38.5	39.1	10.4	12.0	100	87	24	-	-
SS-253	CL	30+00	13.5- 15.0	A-2-4(0)	23	NP	42.1	40.3	9.6	8.0	100	87	20	-	4.6
SS-254	CL	30+00	18.5- 20.0	A-2-5(0)	41	NP	36.5	38.1	13.4	12.0	100	93	28	-	-
SS-255	CL	30+00	23.5- 25.0	A-3(0)	24	NP	24.4	72.7	2.8	0.0	100	99	5	-	-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-438	CL	37+00	0.0- 1.5	A-6(14)	35	15	1.4	6.4	45.9	46.2	100	100	92	25.2	-
SS-439	CL	37+00	3.5- 5.0	A-7-6(19)	42	20	1.6	7.4	44.7	46.2	100	99	91	-	-
SS-440	CL	37+00	8.5- 10.0	A-6(18)	40	21	2.8	10.9	40.1	46.2	100	99	87	-	-
SS-441	CL	37+00	13.5- 15.0	A-2-5(0)	41	NP	31.2	34.4	20.4	14.1	100	88	35	-	19.7
SS-442	CL	37+00	18.5- 20.0	A-2-4(0)	36	NP	43.4	39.4	8.1	9.0	100	84	18	-	-
SS-443	CL	37+00	23.5- 25.0	A-2-6(0)	28	12	39.8	34.1	2.0	24.1	100	97	26	-	-
SS-444	CL	37+00	28.5- 30.0	A-3(0)	21	NP	39.2	57.5	2.2	1.0	100	95	3	-	-
SS-445	CL	37+00	33.5- 35.0	A-3(0)	26	NP	0.6	90.9	6.4	2.0	100	100	9	-	-
SS-446	CL	37+00	38.5- 40.0	A-3(0)	26	NP	3.3	90.6	5.0	1.0	100	100	6	-	-
SS-447	CL	37+00	43.5- 45.0	A-3(0)	27	NP	4.7	88.4	5.8	1.0	100	99	7	-	-

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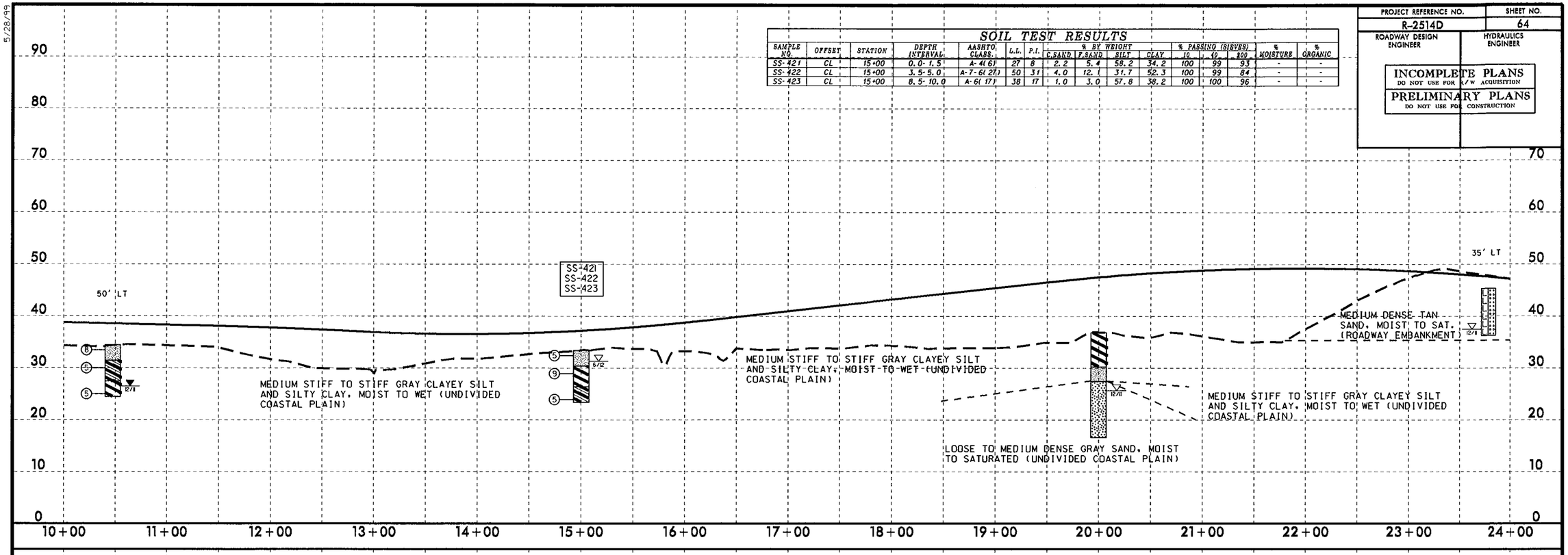
PROJECT REFERENCE NO.	SHEET NO.
R-2514D	64
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

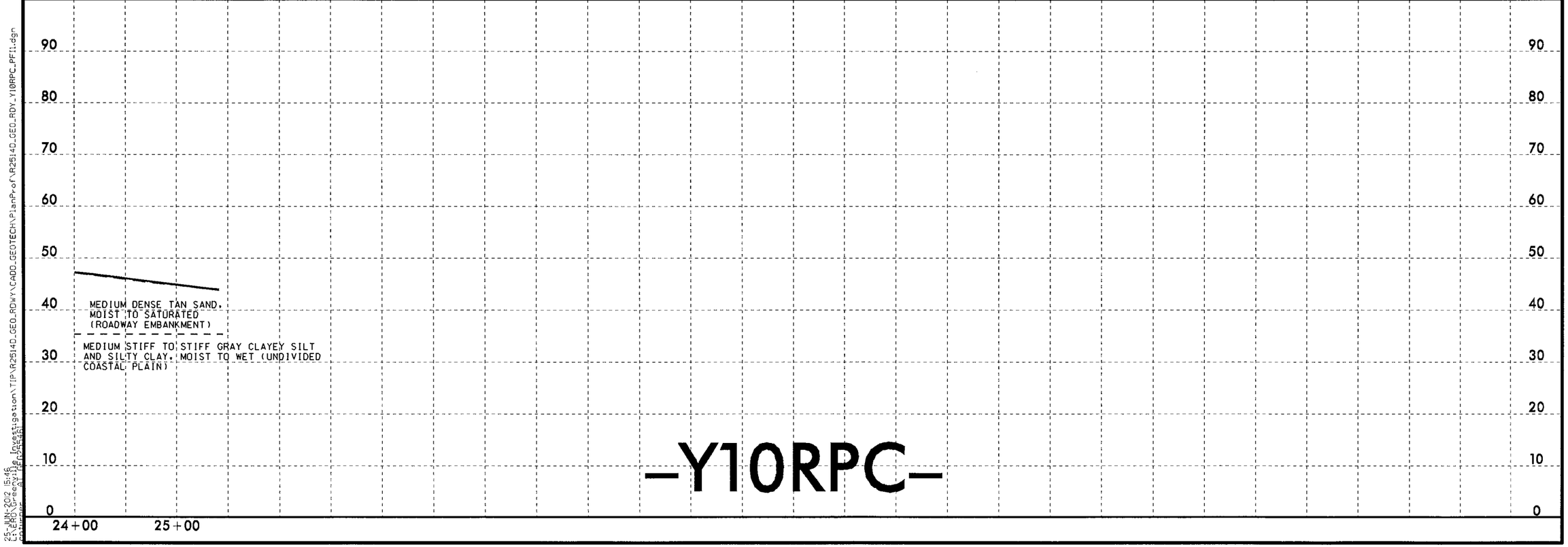
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-421	CL	15+00	0.0-1.5	A-4(6)	27	8	2.2	5.4	58.2	34.2	100	99	93	-	-
SS-422	CL	15+00	3.5-5.0	A-7-6(27)	50	31	4.0	12.1	31.7	52.3	100	99	84	-	-
SS-423	CL	15+00	8.5-10.0	A-6(17)	38	17	1.0	3.0	57.8	38.2	100	100	96	-	-





-Y10RPC-

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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	65

ROADWAY DESIGN ENGINEER

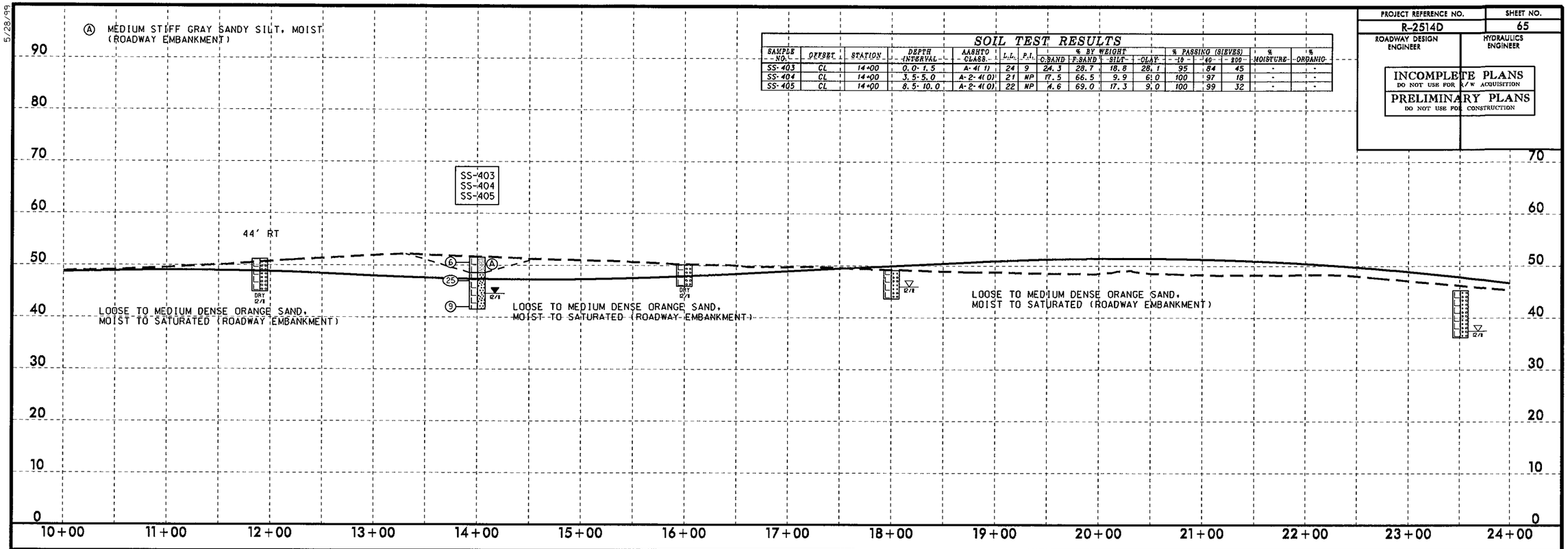
HYDRAULICS ENGINEER

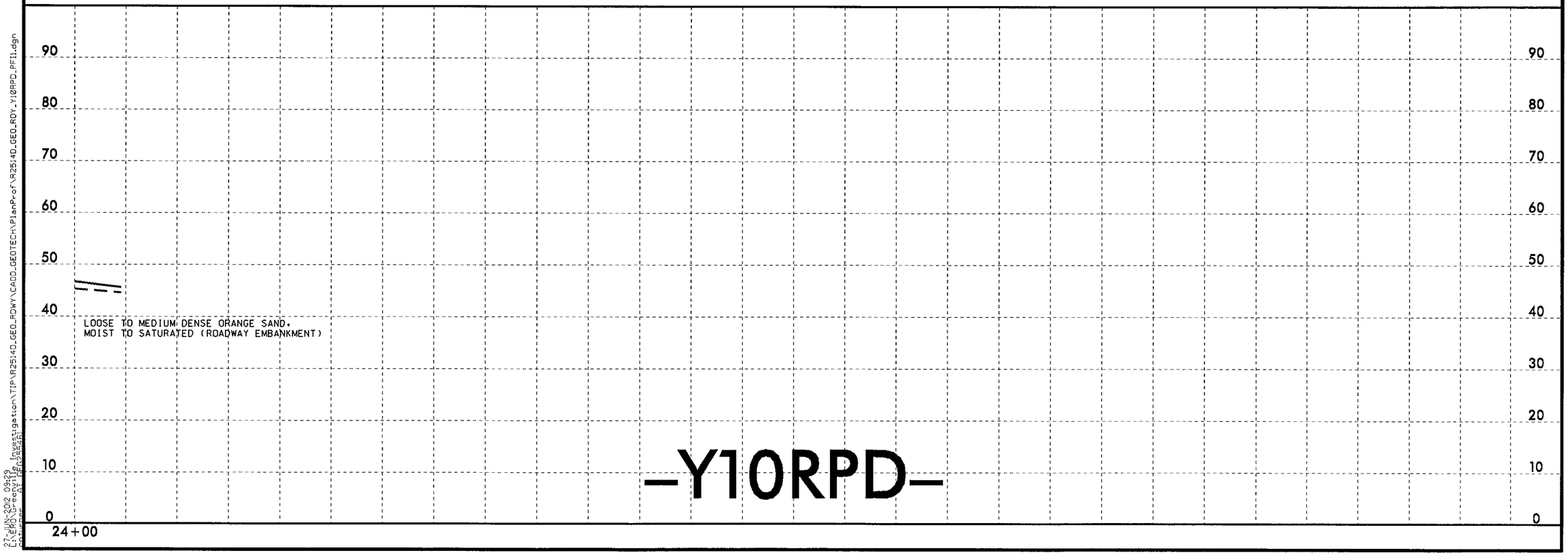
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-403	CL	14+00	0.0- 1.5	A-4(1)	24	9	24.3	28.7	18.8	28.1	95	84	45	-	-
SS-404	CL	14+00	3.5- 5.0	A-2-4(0)	21	NP	17.5	66.5	9.9	6.0	100	97	18	-	-
SS-405	CL	14+00	8.5- 10.0	A-2-4(0)	22	NP	4.6	69.0	17.3	9.0	100	99	32	-	-





-Y10RPD-

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PROJECT REFERENCE NO.	SHEET NO.
R-2514D	66

ROADWAY DESIGN ENGINEER

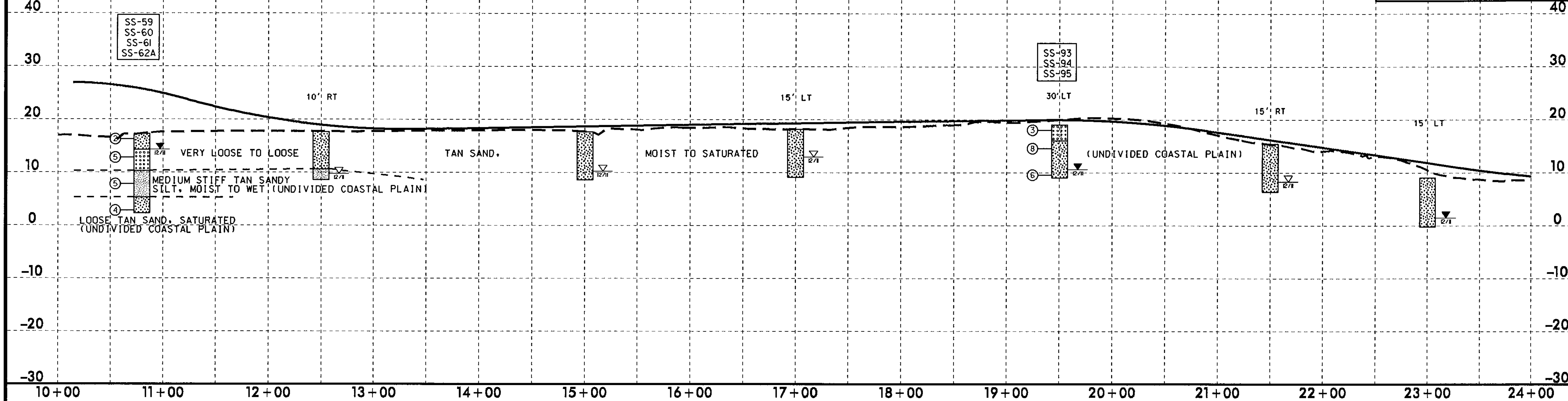
HYDRAULICS ENGINEER

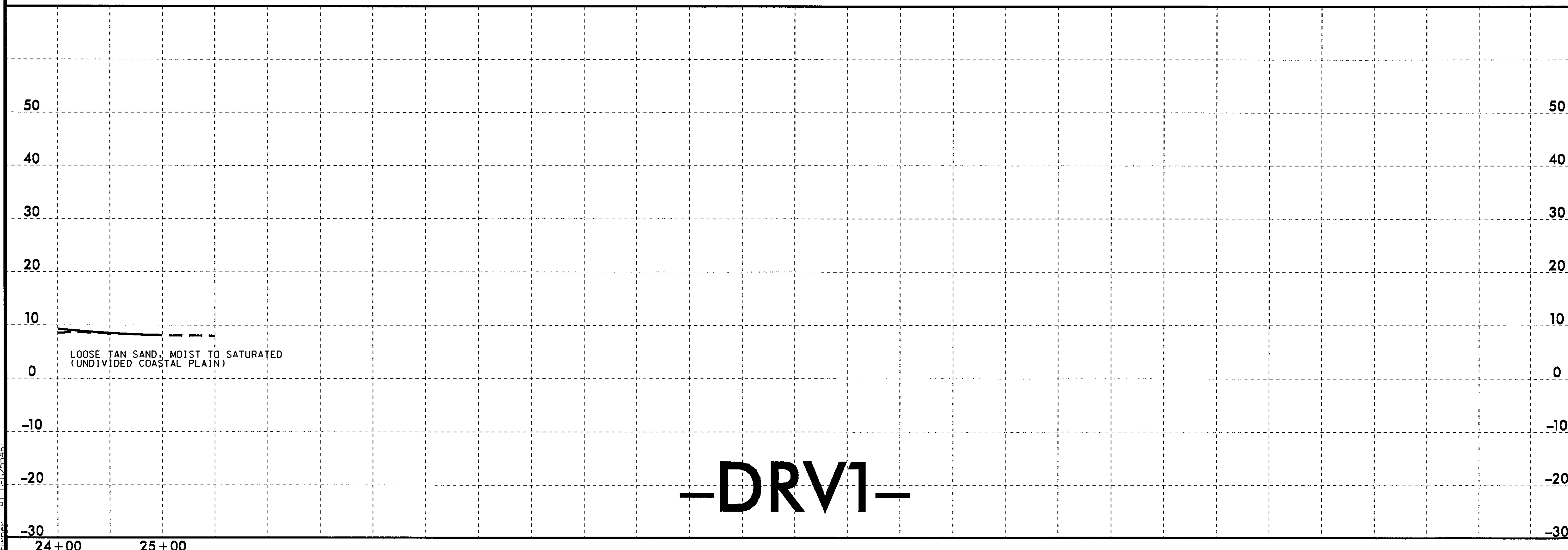
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-59	CL	10+80	0.0-1.5	A-2-4(0)	21	NP	9.6	68.5	13.9	8.0	100	97	24	-	-
SS-60	CL	10+80	3.5-5.0	A-3(0)	21	NP	31.8	63.5	2.7	2.0	100	87	5	-	-
SS-61	CL	10+80	8.5-10.0	A-4(0)	25	NP	0.8	71.5	17.7	10.0	100	100	36	-	-
SS-62A	CL	10+80	13.5-15.0	A-2-4(0)	26	NP	1.6	75.9	14.5	8.0	100	100	29	-	-
SS-93	30 LT	19+50	0.0-1.5	A-3(0)	23	NP	18.7	72.5	4.8	4.0	97	91	9	-	-
SS-94	30 LT	19+50	3.5-5.0	A-2-4(0)	20	NP	18.3	67.5	8.2	6.1	84	80	13	-	-
SS-95	30 LT	19+50	8.5-10.0	A-2-4(0)	28	NP	0.8	76.7	16.4	6.1	100	100	27	-	-





-DRV1-

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514D	67

ROADWAY DESIGN ENGINEER

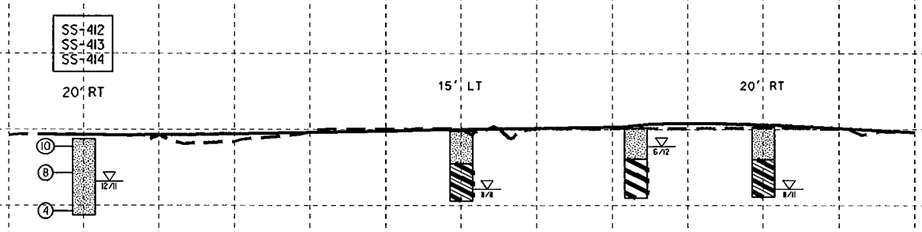
HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-412	20' RT	10+50	0.0-1.5	A-4(0)	22	2	6.6	12.7	60.6	20.1	95	91	77	-	-
SS-413	20' RT	10+50	3.5-5.0	A-4(4)	26	5	0.4	7.6	61.8	30.2	100	100	94	-	-
SS-414	20' RT	10+50	8.5-10.0	A-4(1)	25	6	0.4	45.6	25.8	28.1	100	100	56	-	-



MEDIUM STIFF TO STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND CLAY. MOIST TO WET (UNDIVIDED COASTAL PLAIN)

-DRV2-

130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60

10+00 11+00 12+00 13+00 14+00 15+00 16+00

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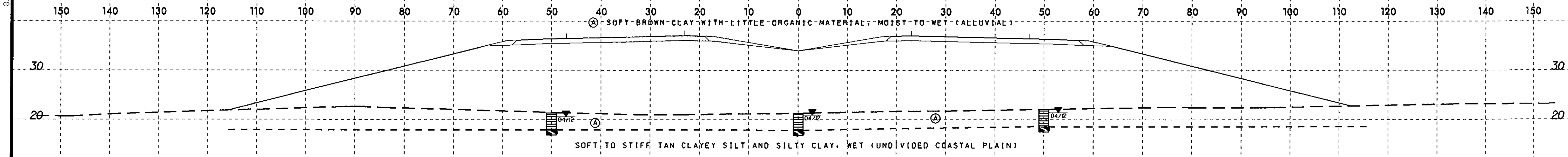
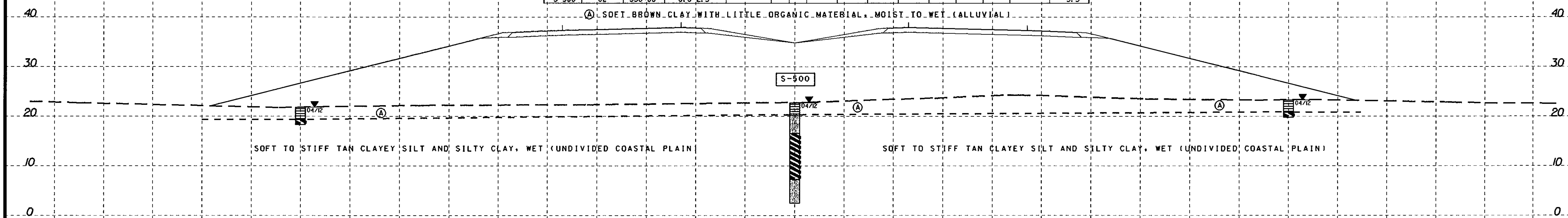
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	68



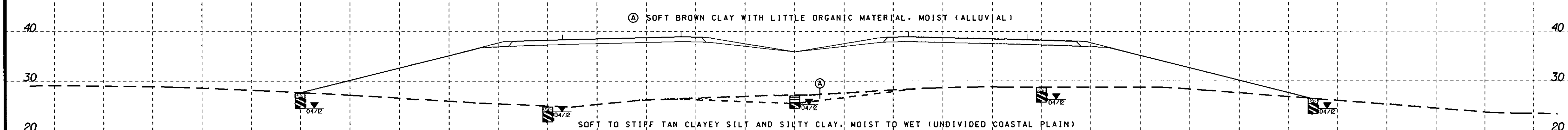
330+50.00

SOIL TEST RESULTS

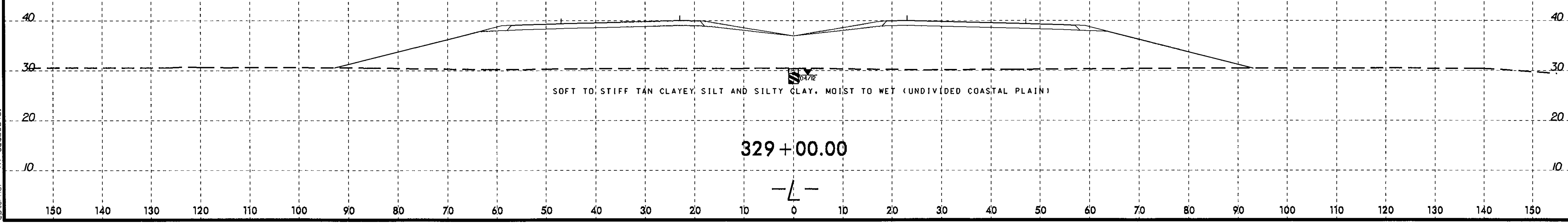
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
S-500	CL	330+00	0.0-2.5	-	-	-	-	-	-	-	-	-	-	-	5.5



330+00.00



329+50.00



329+00.00

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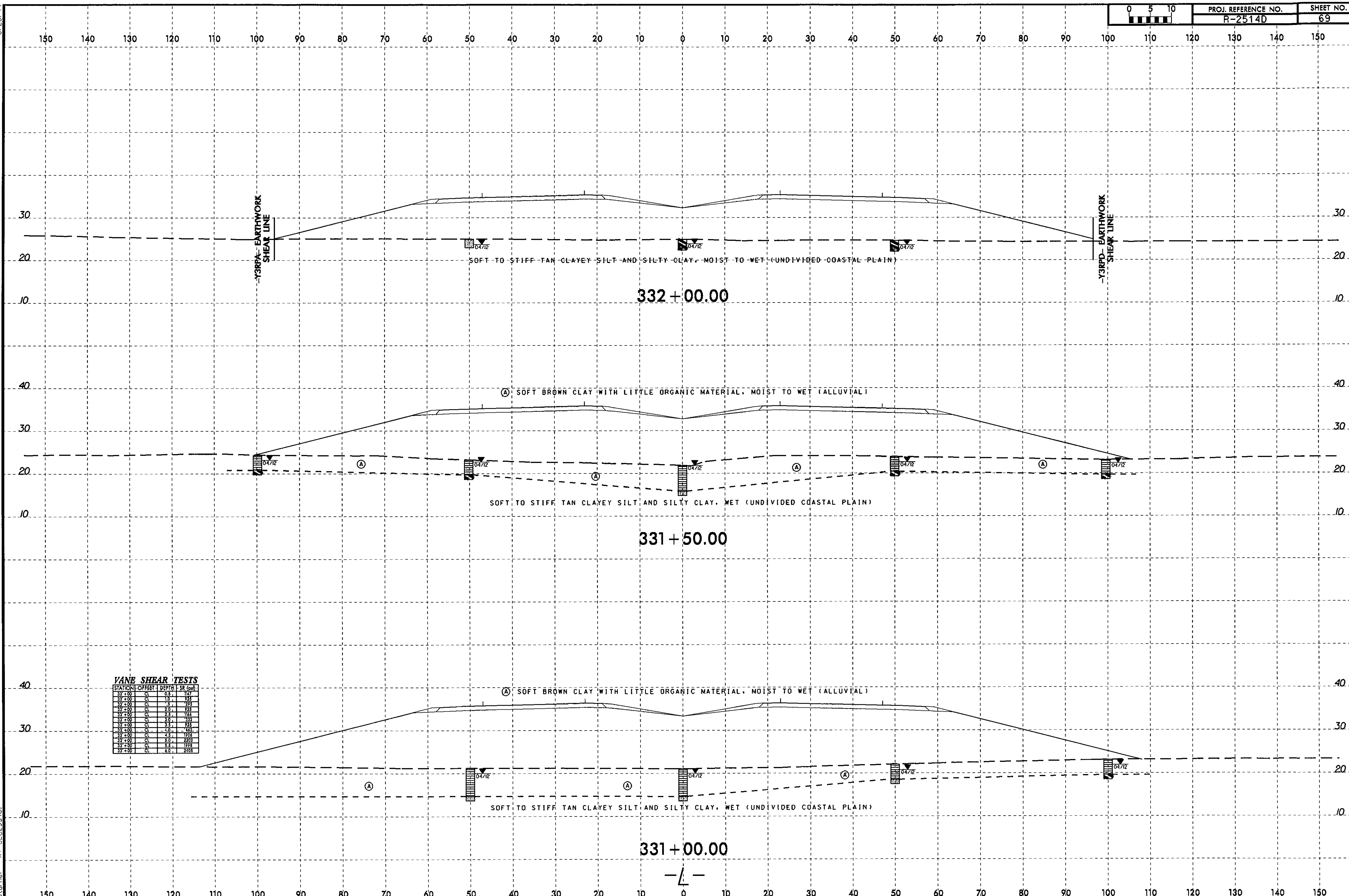
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	69



VANE SHEAR TESTS

STATION	OFFSET	DEPTH	SR (psf)
33'+00	CL	0.5	1147
33'+00	CL	1.0	925
33'+00	CL	1.5	1295
33'+00	CL	2.0	925
33'+00	CL	2.5	1166
33'+00	CL	3.0	1332
33'+00	CL	3.5	925
33'+00	CL	4.0	1462
33'+00	CL	4.5	1906
33'+00	CL	5.0	2202
33'+00	CL	5.5	1998
33'+00	CL	6.0	2405

8/23/99

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0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	70

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20

- Y3RPA -
STA 10+78.13
EL=29.52

- Y3RPD -
STA 10+78.00
EL=29.83

SOFT TO STIFF TAN CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

337+50.00

- Y3RPA -
STA 11+28.22
EL=29.88

- Y3RPD -
STA 11+28.01
EL=30.09

SOFT TO STIFF TAN CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

337+00.00

- Y3RPA -
STA 11+78.34
EL=30.25

- Y3RPD -
STA 11+78.04
EL=30.42

SOFT TO STIFF TAN CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

336+50.00

- Y3RPA -
STA 12+28.52
EL=30.61

- Y3RPD -
STA 12+28.15
EL=30.74

SOFT TO STIFF TAN CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

336+00.00

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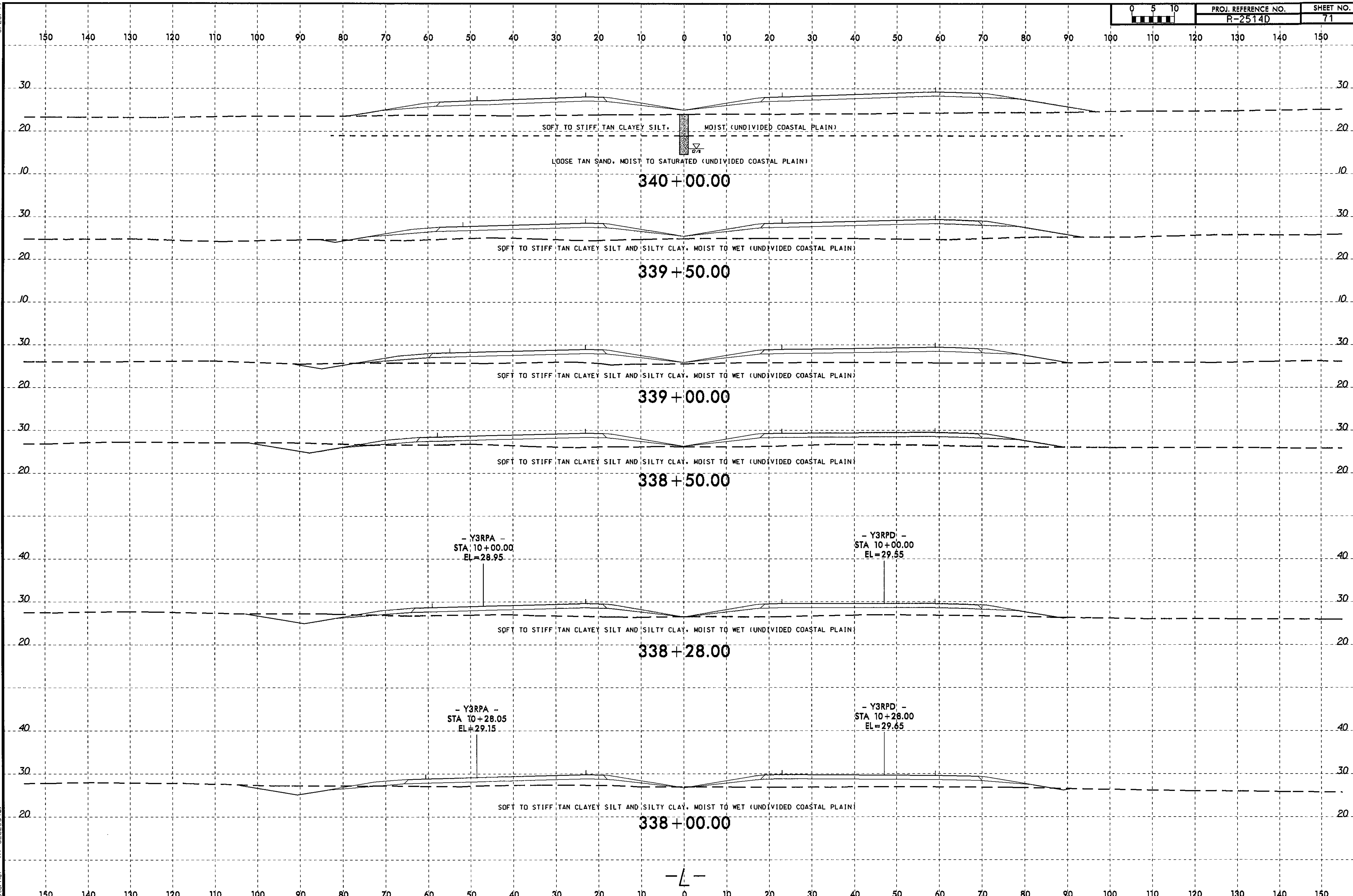
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	71



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MEDIUM STIFF TO VERY STIFF TAN SANDY SILT AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

402+50.00

MEDIUM STIFF TO VERY STIFF TAN SANDY SILT AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

402+00.00

MEDIUM STIFF TO VERY STIFF TAN SANDY SILT AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

401+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-166	CL	401+00	0.0-1.5	A-4(0)	23	1	6.3	22.4	59.2	12.1	100	99	73	-	-
SS-167	CL	401+00	3.5-5.0	A-6(14)	35	18	3.4	16.6	47.6	32.4	100	99	82	18.1	-
SS-168	CL	401+00	8.5-10.0	A-2-4(0)	22	NP	8.1	80.1	1.7	10.1	100	99	12	-	-

SS-166
SS-167
SS-168

6
16
19

MEDIUM STIFF TO VERY STIFF TAN SANDY SILT AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

401+00.00

MEDIUM STIFF TO VERY STIFF TAN SANDY SILT AND SILTY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)

400+50.00

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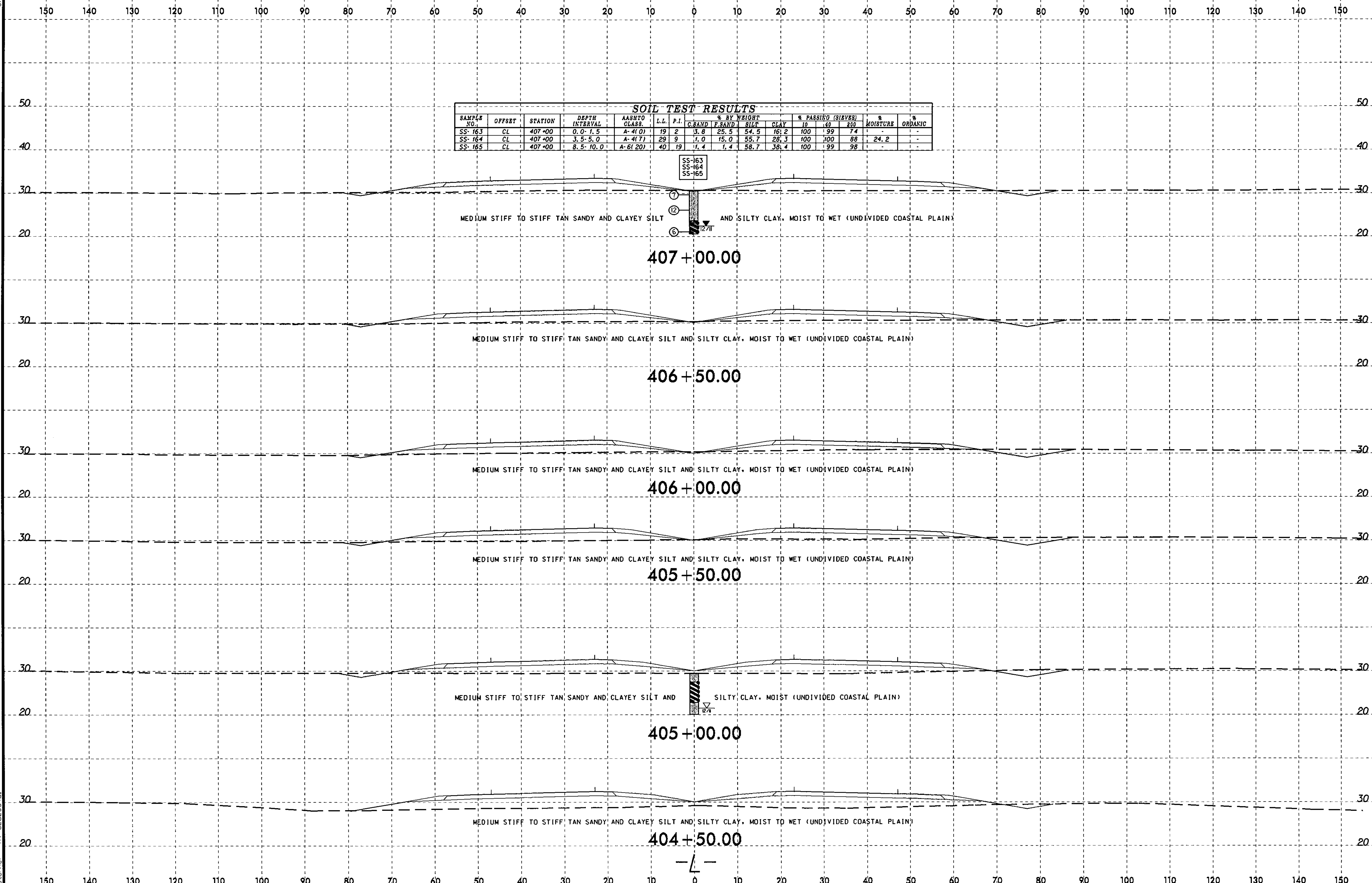
AT GEOPAK

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) 40	% PASSING (SIEVES) 200	% MOISTURE	% ORGANIC
SS-163	CL	407+00	0.0-1.5	A-4(0)	19	2	3.8	25.5	54.5	16.2	100	99	74	-	-
SS-164	CL	407+00	3.5-5.0	A-4(7)	29	9	1.0	15.0	55.7	28.3	100	100	88	24.2	-
SS-165	CL	407+00	8.5-10.0	A-6(20)	40	19	1.4	1.4	58.7	38.4	100	99	98	-	-



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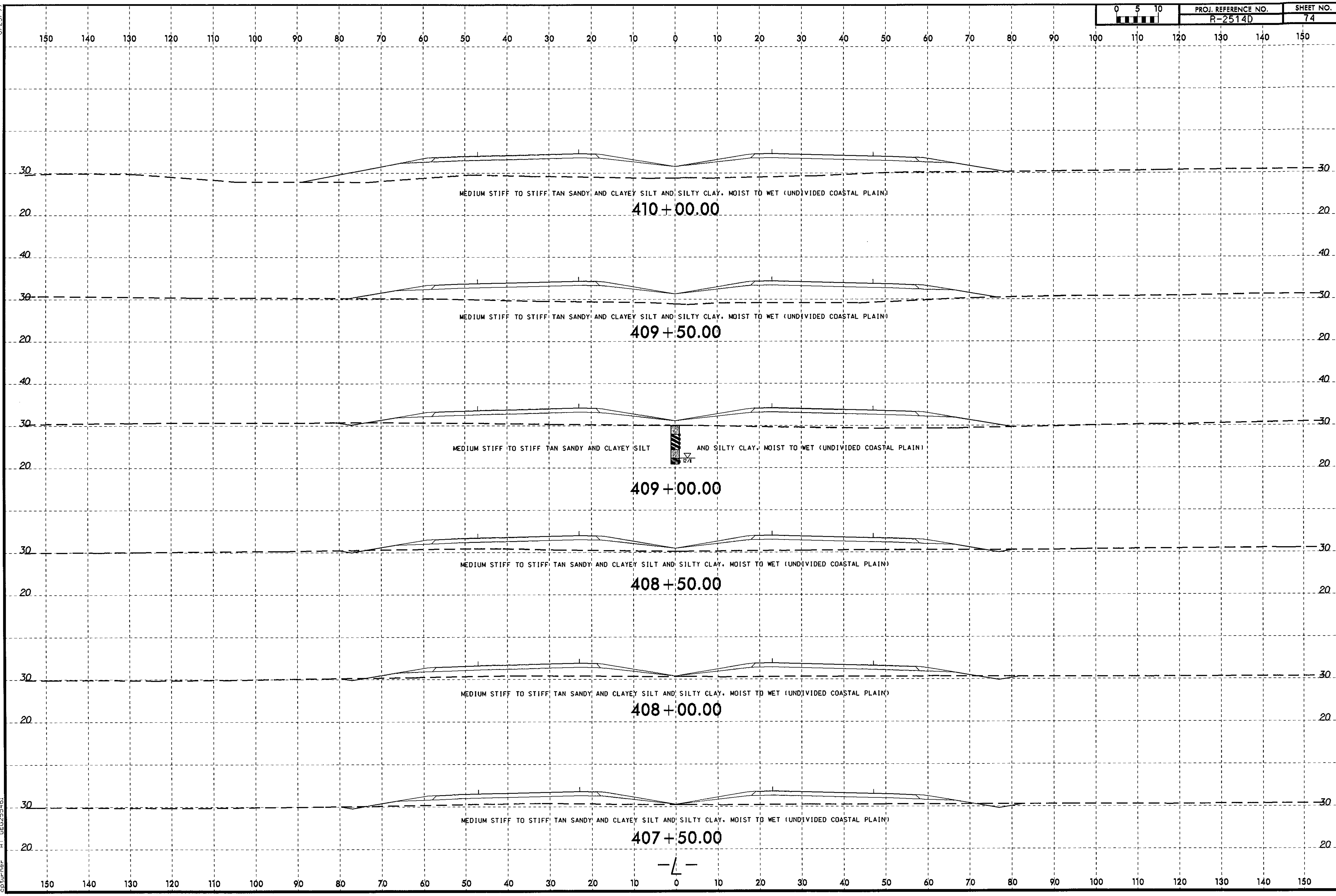

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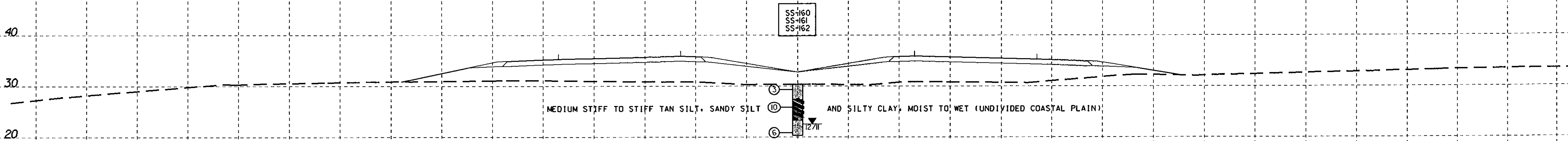
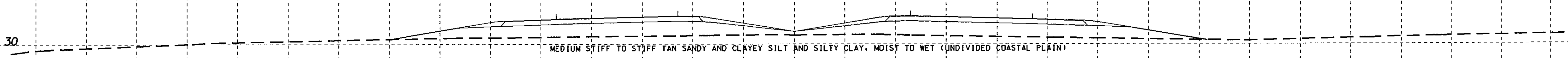
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	75

SOIL TEST RESULTS

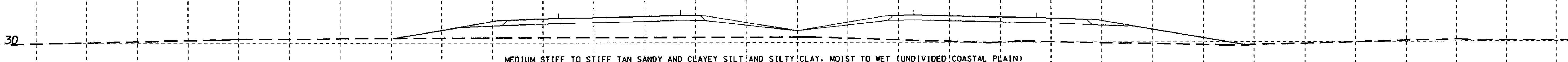
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) 40	% PASSING (SIEVES) 200	% MOISTURE	% ORGANIC
SS-160	CL	413+00	0.0-1.5	A-4(0)	22	1	7.1	33.0	45.8	14.2	100	98	63	-	-
SS-161	CL	413+00	3.5-5.0	A-6(9)	31	15	3.2	25.7	36.7	34.4	100	99	74	21.5	-
SS-162	CL	413+00	8.5-10.0	A-4(8)	31	8	0.4	2.4	72.9	24.3	100	100	98	-	-



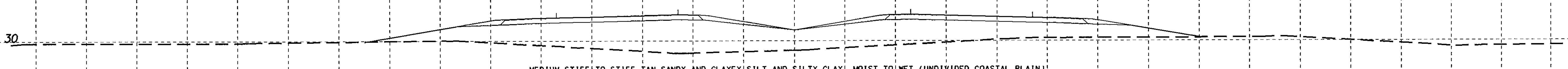
413+00.00



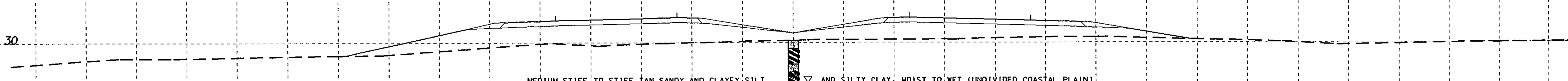
412+50.00



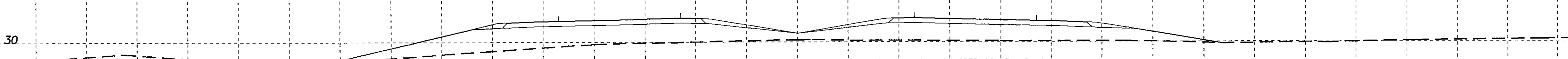
412+00.00



411+50.00



411+00.00



410+50.00

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	R-2514D	76

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

60 50 40 30 20

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

433+00.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
S-501	100 LT	432+50	0.0-1.5	-	-	-	-	-	-	-	-	-	-	-	13.2

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

60 50 40 30 20

S-501

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

432+50.00

60 50 40 30 20

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

432+00.00

—L—

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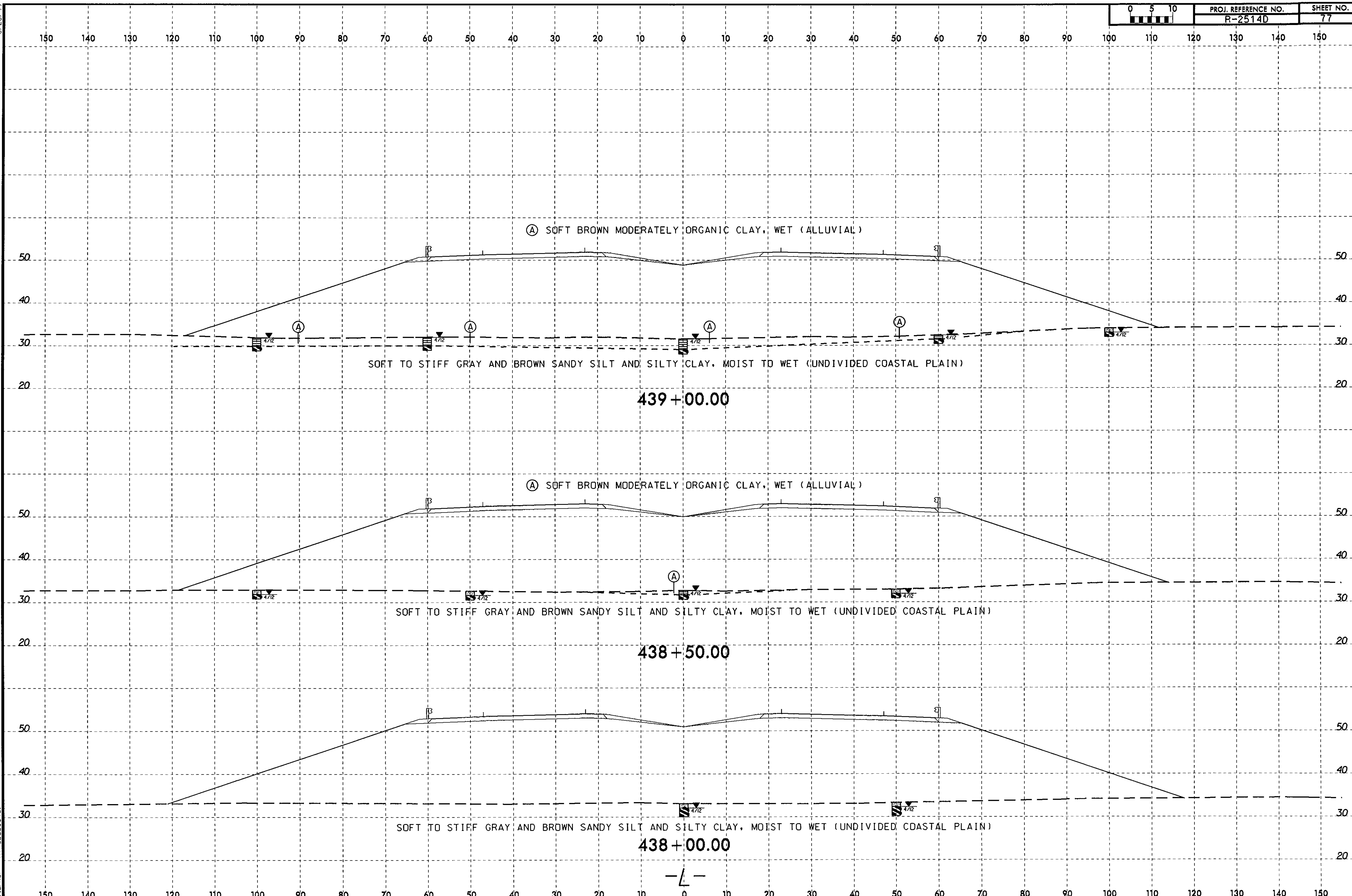
Capturer: JSGOLDSMITH

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	77



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SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-133	CL	440+00	0.0-1.5	A-7-5(20)	54	17	3.4	6.7	39.3	50.6	100	98	90	58.1	-
SS-134	CL	440+00	3.5-5.0	A-7-6(30)	51	31	0.6	8.7	30.0	60.7	100	100	91	29.0	-
SS-135	CL	440+00	8.5-10.0	A-7-6(20)	42	23	1.4	11.5	24.3	62.8	100	99	87	-	7.4
SS-136	CL	440+00	13.5-15.0	A-7-6(17)	41	28	7.1	23.5	22.9	46.6	100	97	70	-	-
SS-137	CL	440+00	18.5-20.0	A-7-6(24)	46	31	0.8	19.6	31.0	48.6	100	100	81	-	-
SS-138	CL	440+00	23.5-25.0	A-2-6(0)	30	16	81.2	4.5	6.3	8.1	100	31	15	-	-

Ⓑ MEDIUM STIFF GRAY CLAY WITH LITTLE ORGANIC MATERIAL, WET (UNDIVIDED COASTAL PLAIN)

SS-133 SS-136
SS-134 SS-137
SS-135 SS-138

SOFT TO STIFF GRAY AND BROWN

ST-7

SANDY AND SILTY CLAY,

MOIST TO WET

ST-8

(UNDIVIDED COASTAL PLAIN)

LOOSE ORANGE SAND, SATURATED (UNDIVIDED COASTAL PLAIN)

440+00.00

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

439+50.00

8/23/99
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MEDIUM STIFF GRAY AND BROWN SANDY SILT AND SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

445+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-172	-GL-	445+00	0.0-1.5	A-4(3)	27	8	2.8	34.6	38.3	24.3	100	99	63	-	-
SS-173	CL	445+00	3.5-5.0	A-7-6(18)	46	26	2.2	25.5	23.8	48.5	100	99	73	29.4	-
SS-174	CL	445+00	8.5-10.0	A-4(0)	21	4	5.1	58.0	16.7	20.2	100	98	38	-	-
SS-175	CL	445+00	13.5-15.0	A-4(0)	24	6	1.0	53.0	23.8	22.2	100	100	48	-	-

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

SS-I 72
SS-I 73
SS-I 74
SS-I 75

DRY 04/12

04/12

12/18

MEDIUM STIFF GRAY AND BROWN SANDY SILT AND SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

445+00.00

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

04/12

04/12

04/12

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

444+43.39

04/12

DRY 04/12

04/12

SOFT TO STIFF GRAY AND BROWN SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

444+00.00

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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	80

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

448+50.00

40
30

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

448+00.00

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

447+50.00

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

$\nabla_{2/4}$

447+00.00

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

446+50.00

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AT GEOPAK

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	81

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

450+00.00

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

449+50.00

40
30
20

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

449+00.00

—L—

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20

Ⓐ 04/12 Ⓐ 04/12 Ⓐ 04/12

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, WET (UNDIVIDED COASTAL PLAIN)

473+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
S-505	CL	473+00	0.0'- 1.5'	-	-	-	-	-	-	-	-	-	-	-	12.8

Ⓐ SOFT BROWN MODERATELY ORGANIC CLAY, WET (ALLUVIAL)

S-505 Ⓐ Ⓐ

04/12 04/12 04/12

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

473+00.00

DRY 04/12 DRY 04/12 DRY 04/12

SOFT TO STIFF BROWN AND GRAY SILT, SANDY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

472+50.00

—L—

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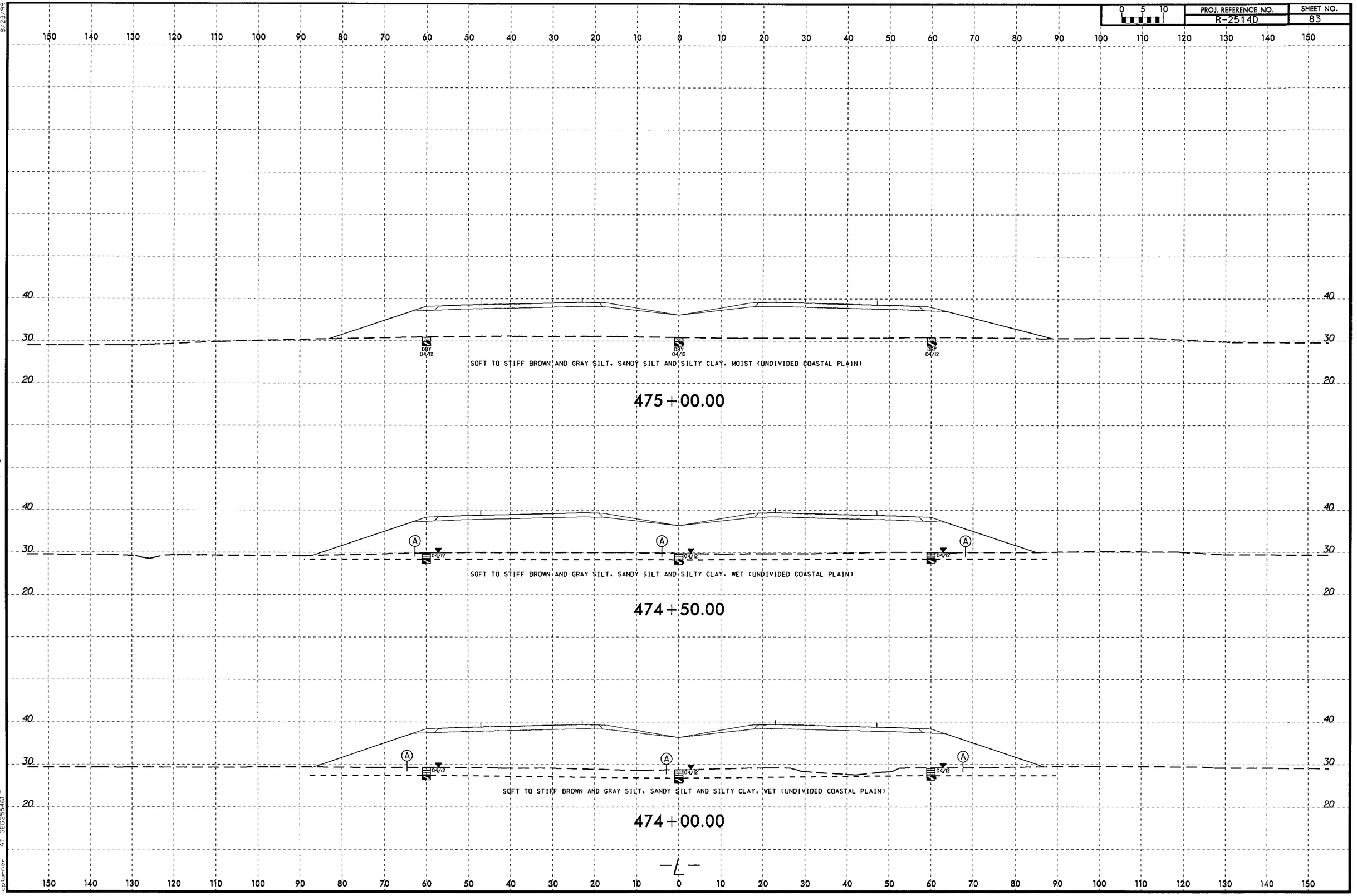

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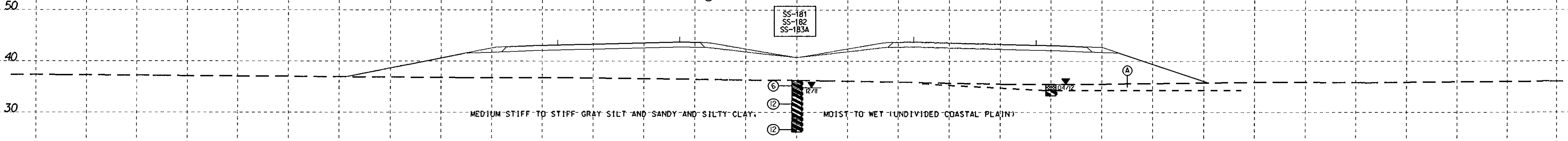
0 5 10

SOIL TEST RESULTS

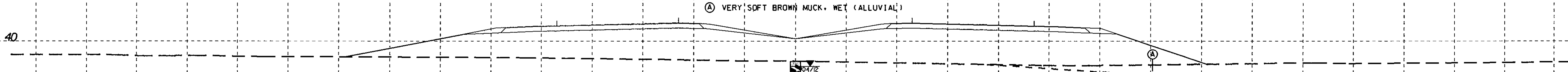
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-181	CL	505+00	0.0-1.5	A-6(9)	33	12	1.8	17.0	40.7	40.4	100	99	82	-	-
SS-182	CL	505+00	3.5-5.0	A-7-6(19)	44	25	1.8	20.2	29.4	48.5	100	99	79	21.9	-
SS-183A	CL	505+00	8.5-10.0	A-6(3)	31	17	35.2	22.9	17.7	24.3	99	77	42	-	-

Ⓐ VERY SOFT BROWN MUCK, WET (ALLUVIAL)



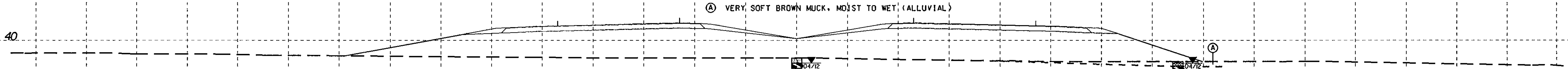
505+00.00

Ⓐ VERY SOFT BROWN MUCK, WET (ALLUVIAL)



504+50.00

Ⓐ VERY SOFT BROWN MUCK, MOIST TO WET (ALLUVIAL)

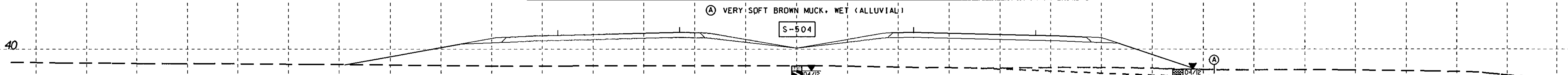


504+00.00

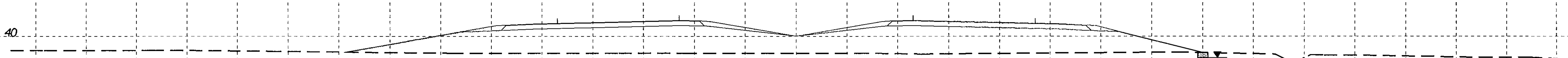
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-504	75 RT	503+50	0.0-1.2	-	-	-	-	-	-	-	-	-	-	-	21.3

Ⓐ VERY SOFT BROWN MUCK, WET (ALLUVIAL)



503+50.00



503+00.00

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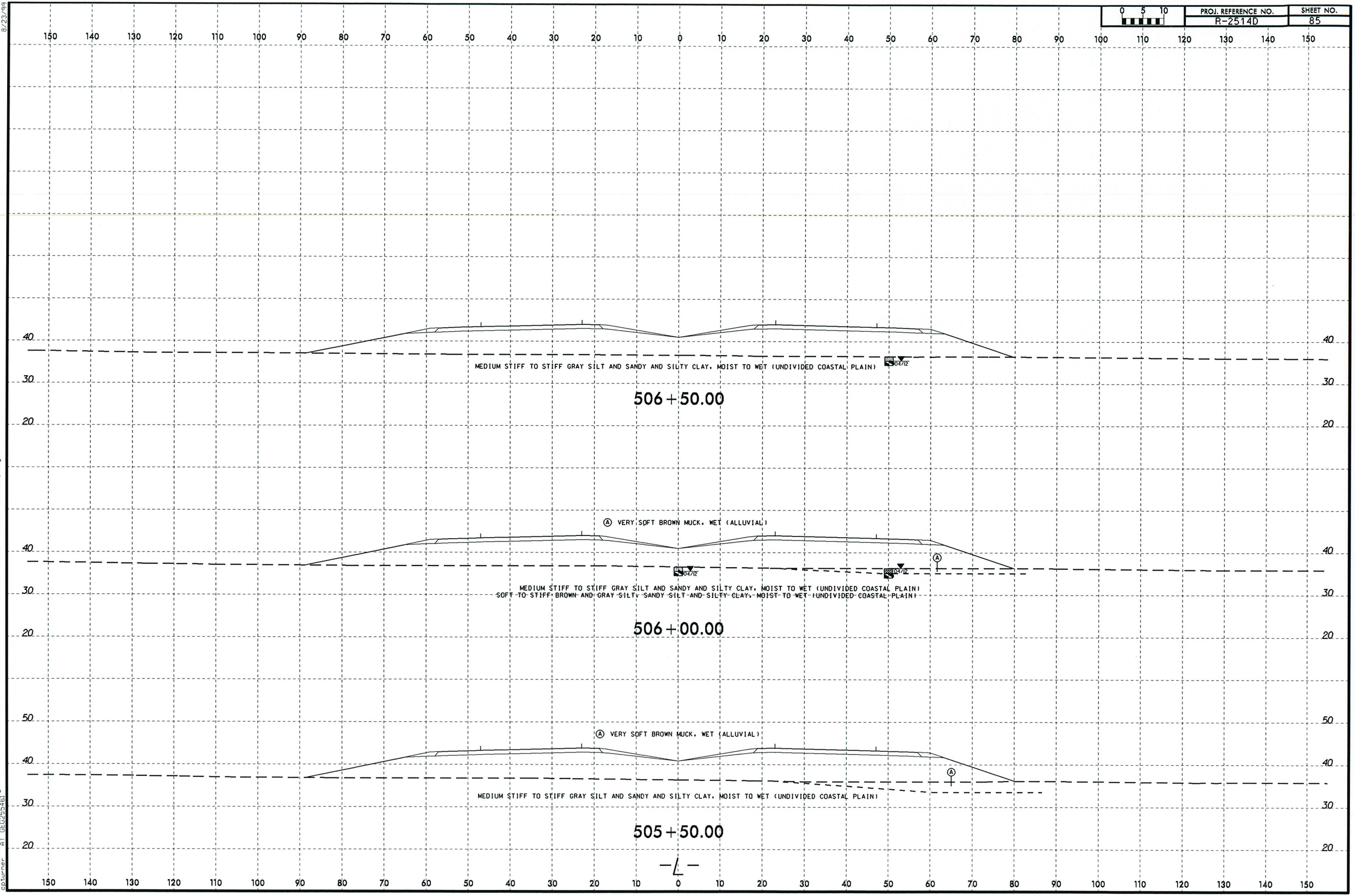

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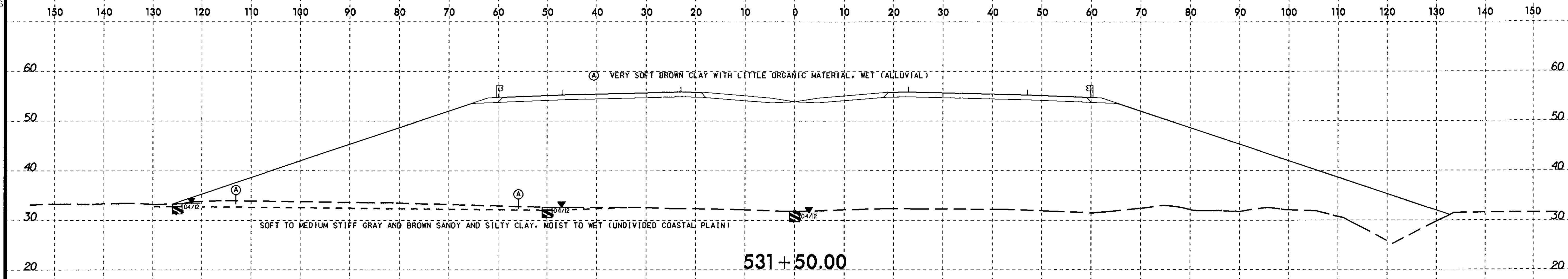
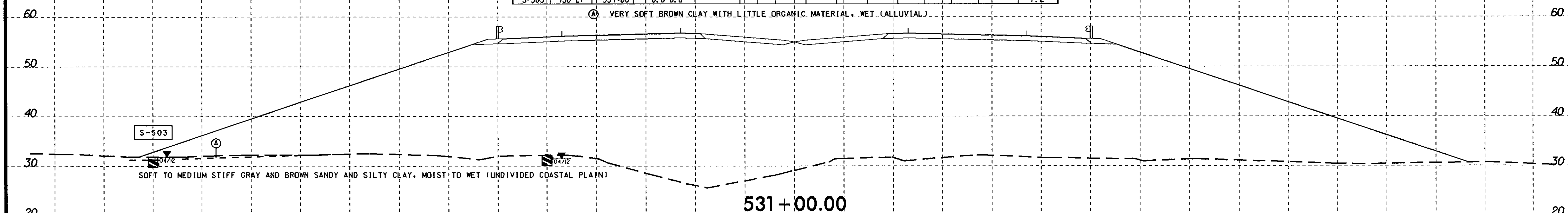
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	86

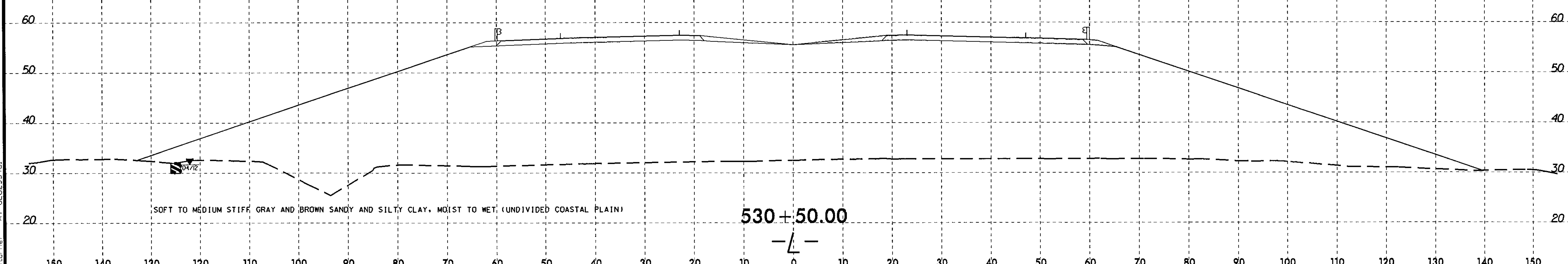


531+50.00

SOIL TEST RESULTS																
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-503	130 LT	531+00	0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	7.2



531+00.00



530+50.00

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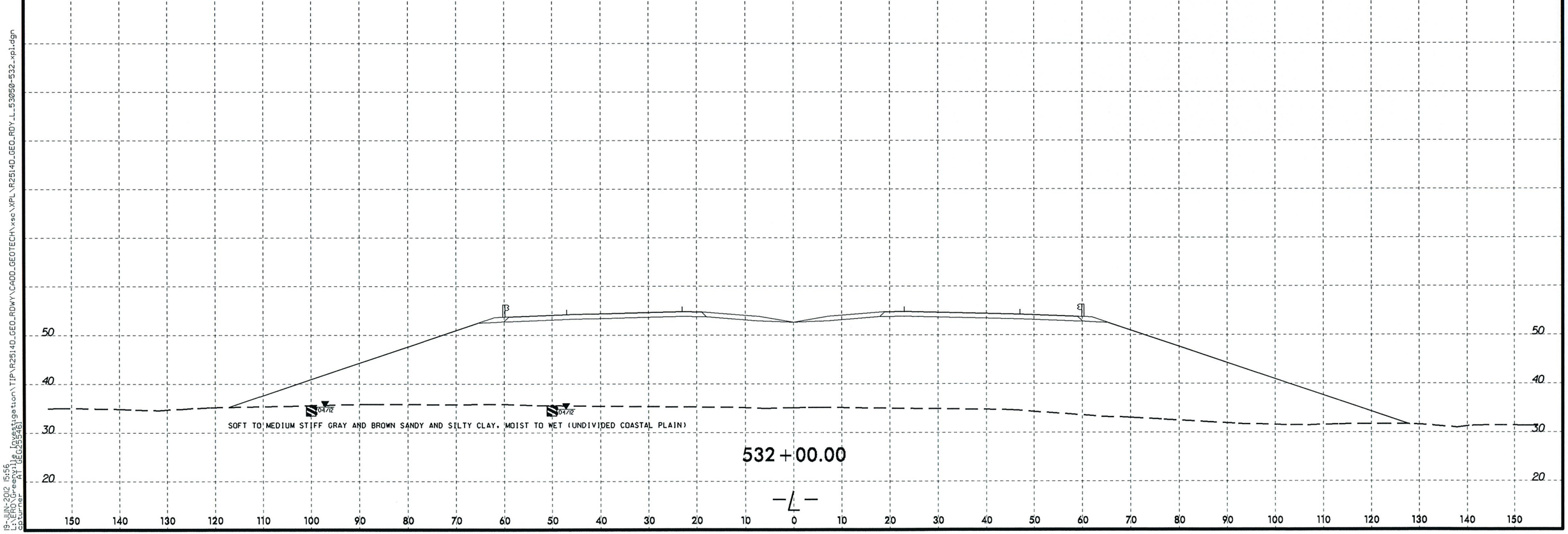
ccturner AT GEO25546

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	87

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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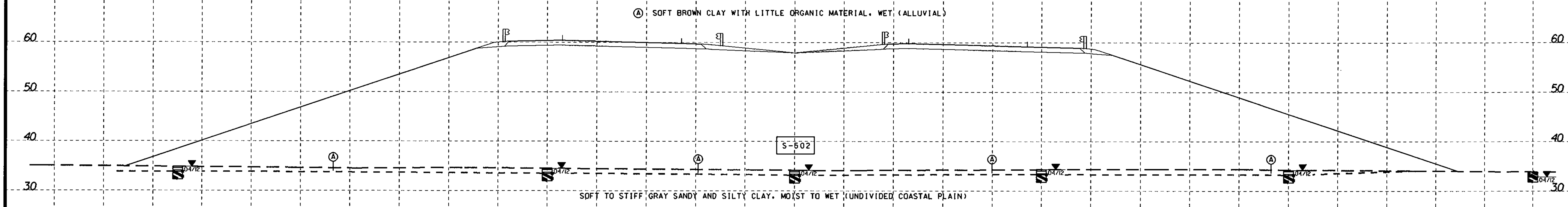
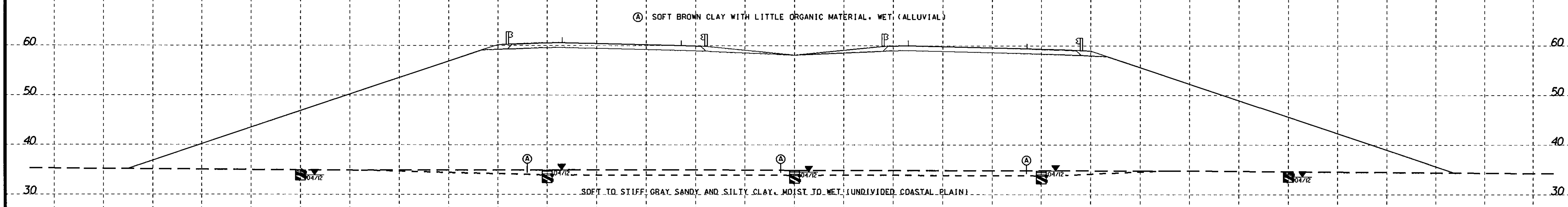
SOIL TEST RESULTS

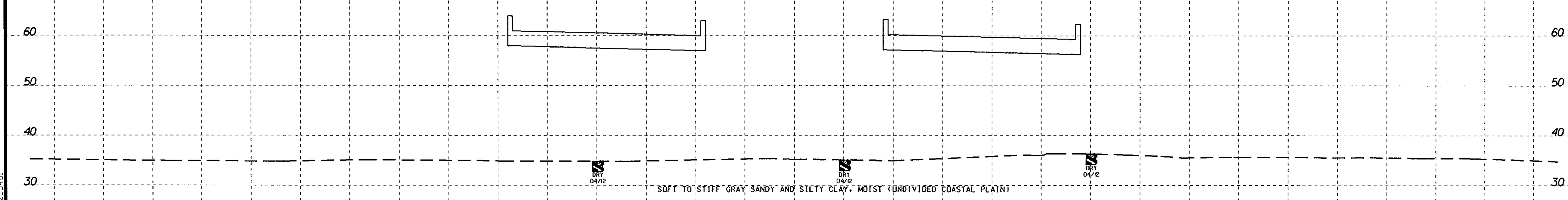
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-502	CL	562+50	0.0-1.0	-	-	-	-	-	-	-	-	-	-	-	10.9



562+50.00



562+00.00



561+50.00
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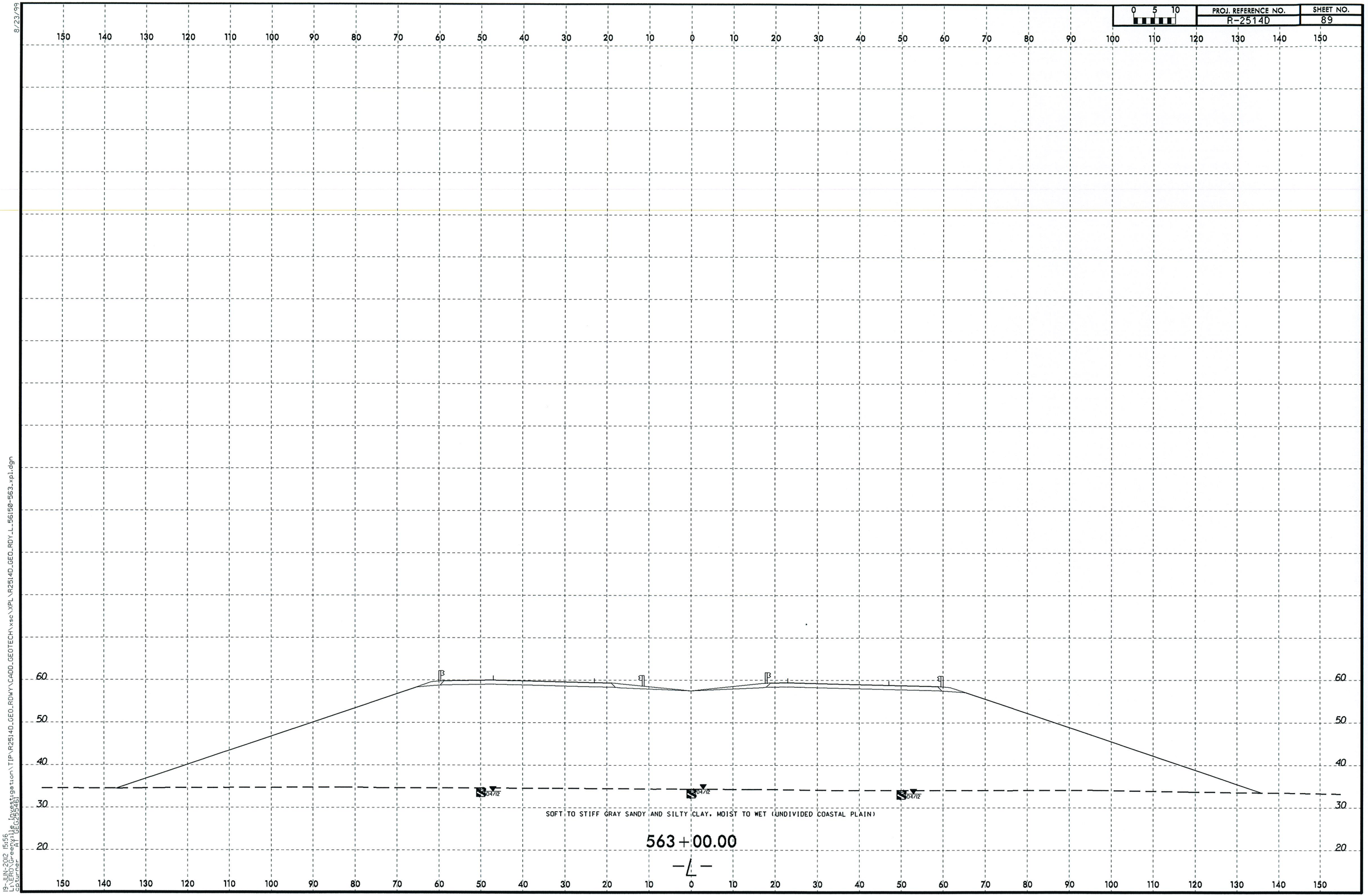
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	89



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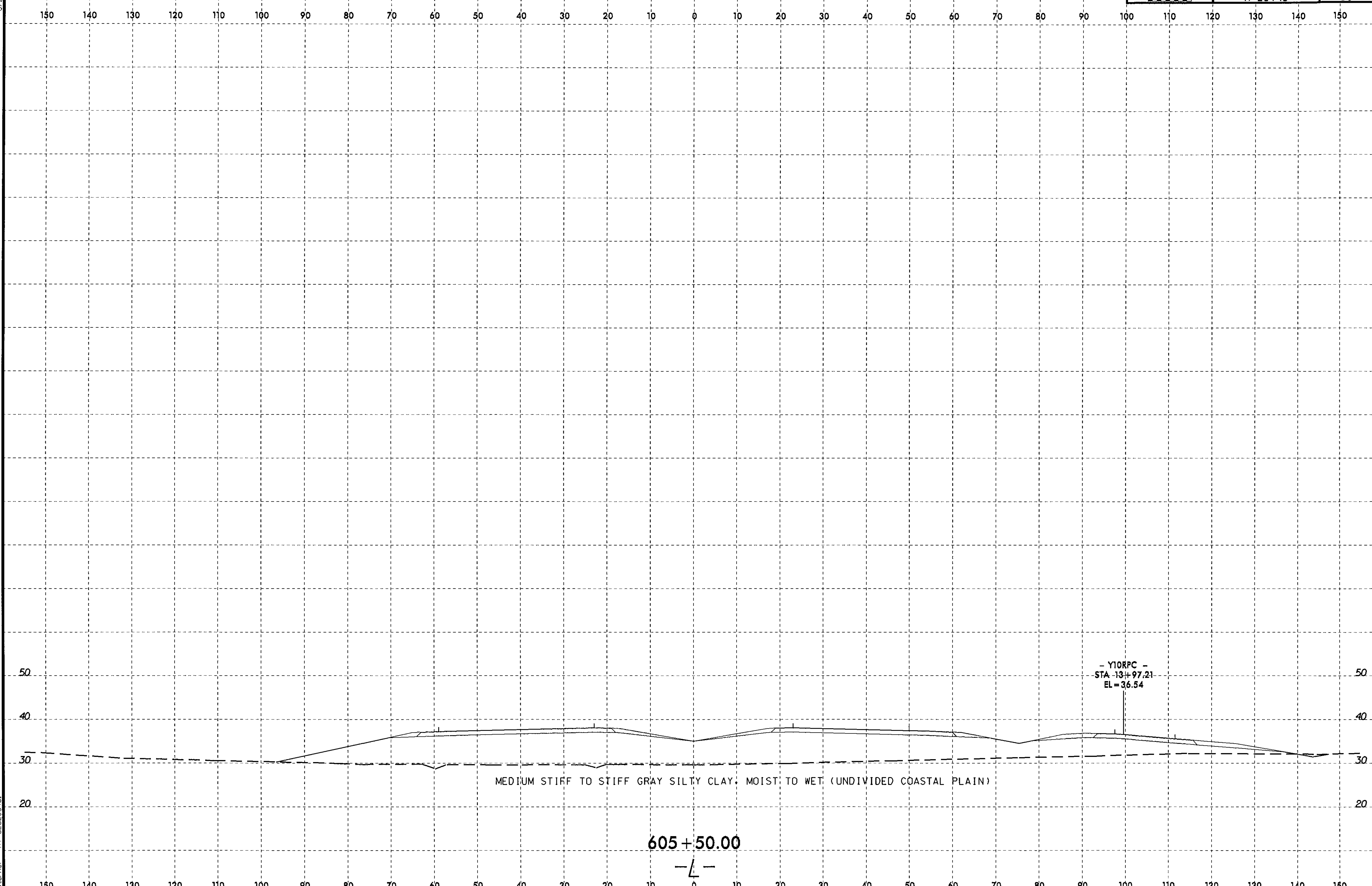
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	90



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PROJ. REFERENCE NO.	SHEET NO.
R-2514D	91

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-409	50 LT	20+97	0.7-2.2	A-2-4(0)	17	NP	40.1	31.6	18.3	10.1	89	69	26	-	-
SS-410	50 LT	20+97	3.5-5.0	A-4(4)	23	7	1.4	7.6	58.8	32.2	100	99	94	-	-
SS-411	50 LT	20+97	8.5-10.0	A-6(14)	37	18	0.2	24.1	37.5	38.2	100	100	81	-	-

SS-409
SS-410
SS-411
20+97

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

-Y3RPA- INTERSECTION SHEAR LINE

PAVEMENT

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

21+00.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

-Y3RPA- INTERSECTION SHEAR LINE

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

20+50.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

19+94.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

19+50.00

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	92

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

30 20 10

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

23+50.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

23+00

30 20 10

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

23+02.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

30 20 10

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

22+50.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

30 20 10

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

22+02.00

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

Y3RPA INTERSECTION SHEAR LINE

40 30 20

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

21+50.00

-Y3-

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	93

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-415	15 LT	32+80	0.5-2.0	A-4(7)	27	8	0.6	2.0	63.2	34.2	100	100	98	-	-
SS-416	15 LT	32+80	3.5-5.0	A-6(16)	38	19	0.0	22.7	43.1	34.2	100	100	86	-	-
SS-417	15 LT	32+80	8.5-10.0	A-6(15)	37	20	0.4	20.5	18.8	60.3	100	100	80	-	-

SS-415
SS-416
SS-417
32+80

-Y3RPD- INTERSECTION SHEAR LINE

PAVEMENT

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

33+00.00

-Y3RPD- INTERSECTION SHEAR LINE

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

32+50.00

-Y3RPD- INTERSECTION SHEAR LINE

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

32+00.00

-Y3RPD- INTERSECTION SHEAR LINE

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

31+50.00

SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

31+00.00

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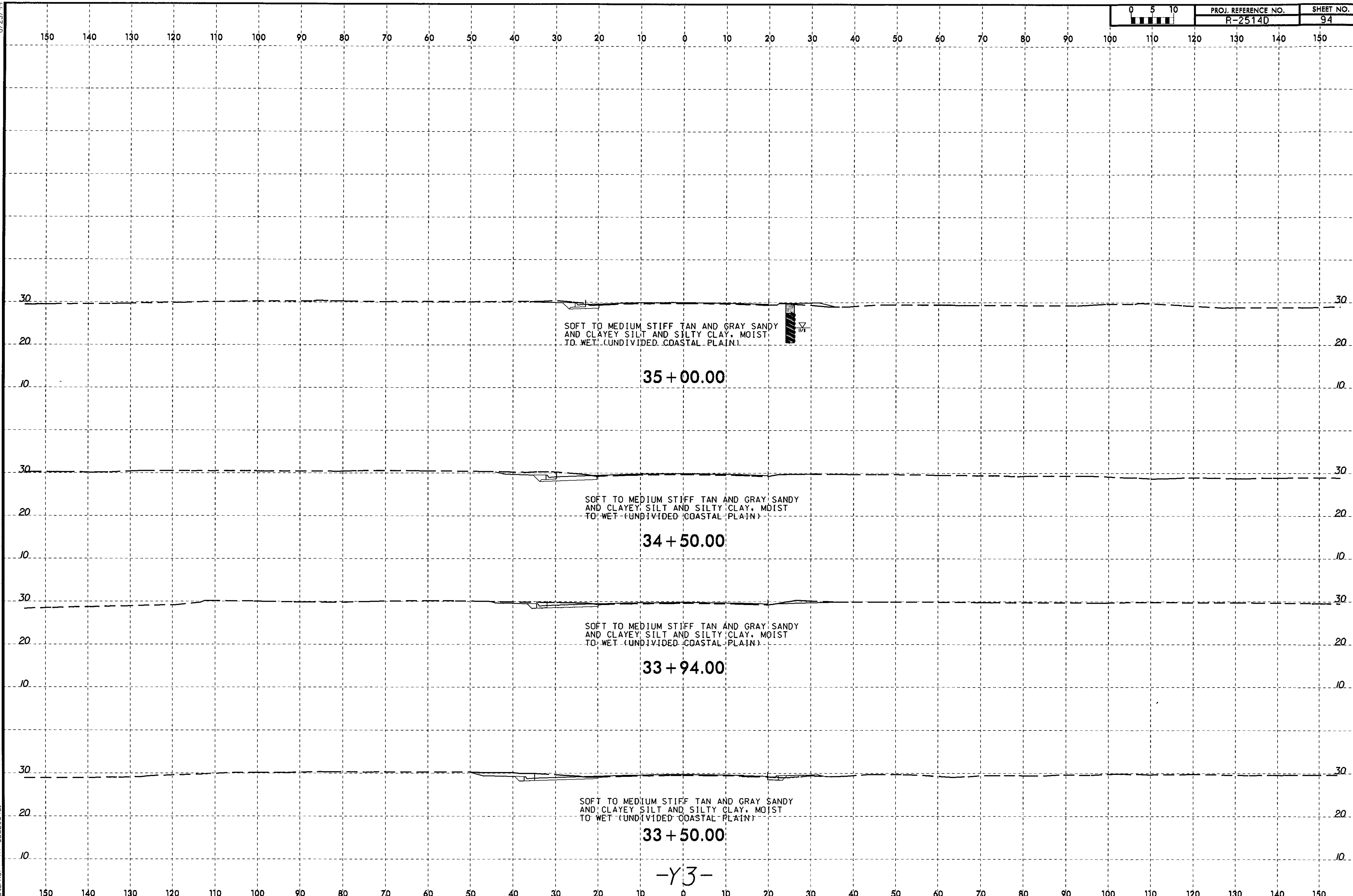

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R-2514D
SHEET NO.
94
0 5 10
SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
35+00.00
SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
34+50.00
SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
33+94.00
SOFT TO MEDIUM STIFF TAN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
33+50.00
-Y3-
8/23/99

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	95

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30 20 10 0

4:1 27.62 4:1 3:1 24.16

SOFT TO MEDIUM STIFF TAN AND GRAY SILT AND CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

14+60.00

4:1 27.64 4:1 3:1 24.45

SOFT TO MEDIUM STIFF TAN AND GRAY SILT AND CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

14+23.05

-Y3A-

19-JUN-2012 16:11
User:cpturner
I:\GEOPAK Projects\Asheville Investigation\TIP\R2514D_GEO_RDWY\CADD_GEOTECH\xsec\XPL\R2514D_GEO_RDY_Y3A_1423-1460_xpl.dgn
cpturner A1DEG255461

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30 20 10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

11+75.00

30 20 10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

11+16.00

30 20 10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

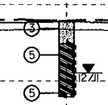
10+75.00

50 40 30 20 10

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
SS-1	CL	10+25	0.0-1.5	A-4(6)	28	7	0.4	6.4	67.1	26.1	100	100	94	-	-
SS-2	CL	10+25	3.5-5.0	A-6(12)	36	15	0.2	21.1	46.6	32.1	100	100	83	-	-
SS-3	CL	10+25	8.5-10.0	A-6(16)	38	18	0.2	15.5	44.2	40.2	100	100	87	-	-

SS-1
SS-2
SS-3



MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

10+25.00

-Y3B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

8/23/99

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8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	97

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30
20
10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

14+25.00

30
20
10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

13+75.00

30
20
10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

13+25.00

30
20
10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

12+74.19

30
20
10
0

6/12

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

12+25.00

-Y3B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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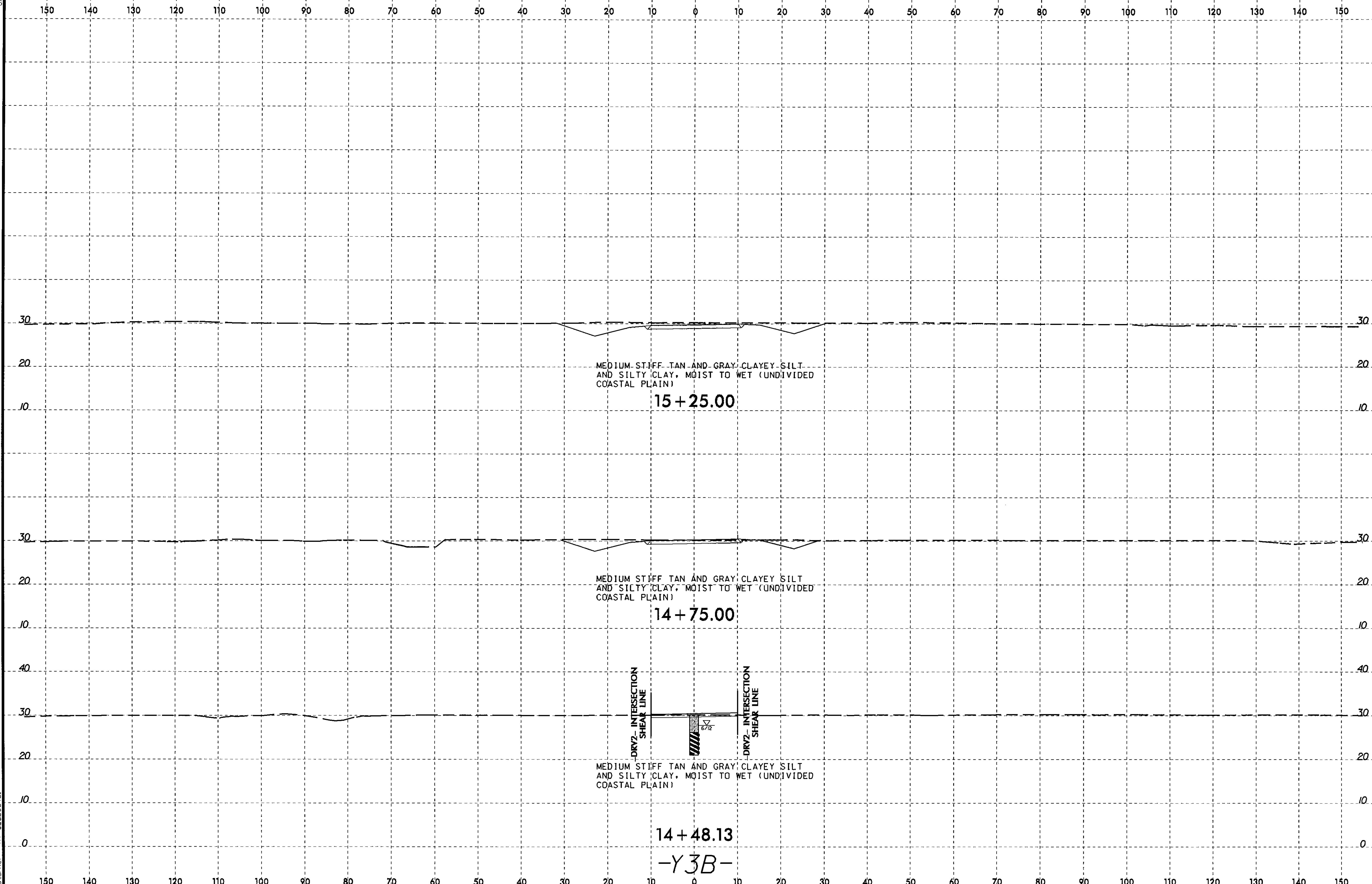
cpturner AT DEG2554B1

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	98



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cpturner AT GEG255461

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	99

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30

20

10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

16+25.00

30

20

10

MEDIUM STIFF TAN AND GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

15+75.00

-Y3B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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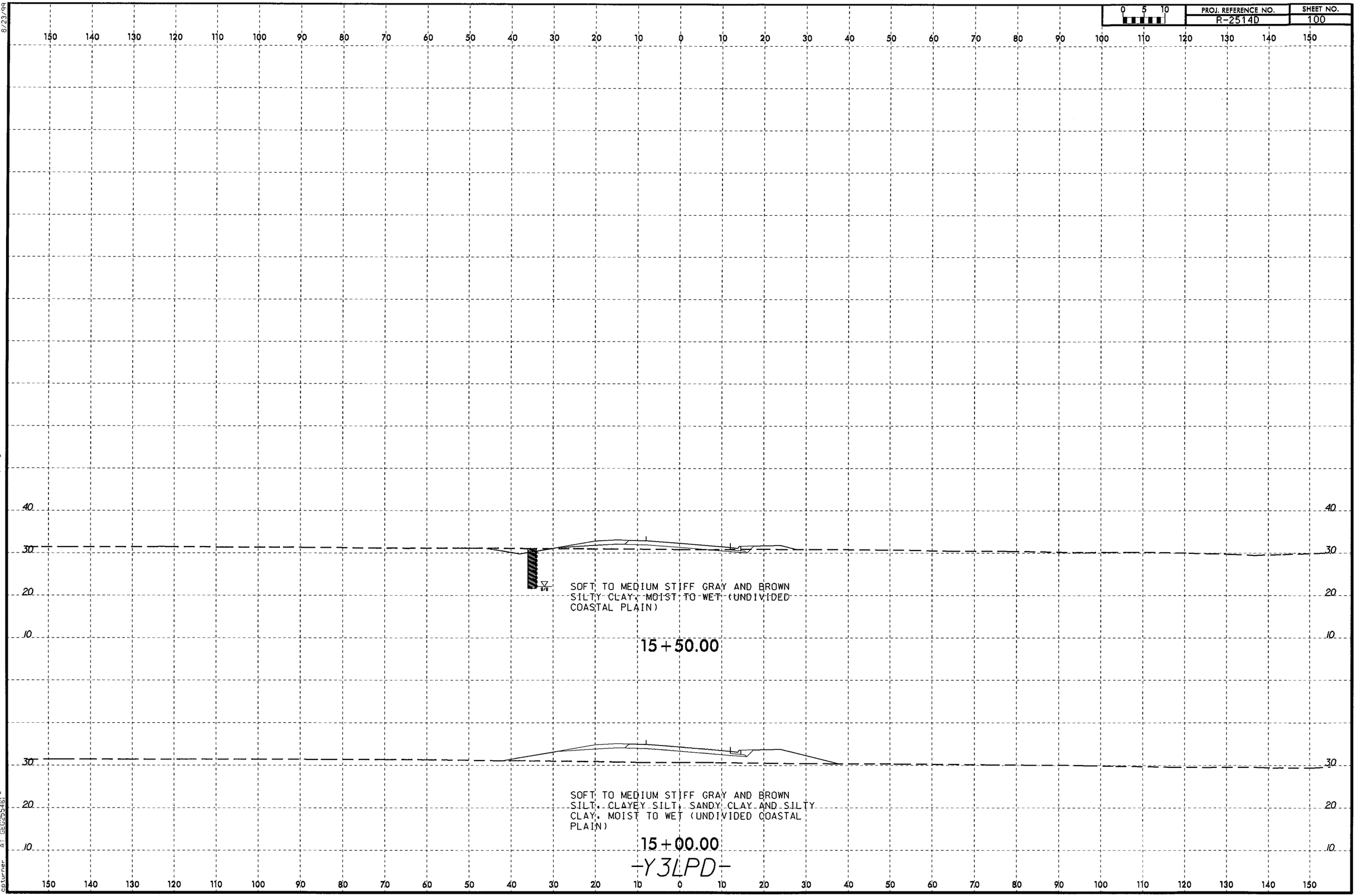
8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	100



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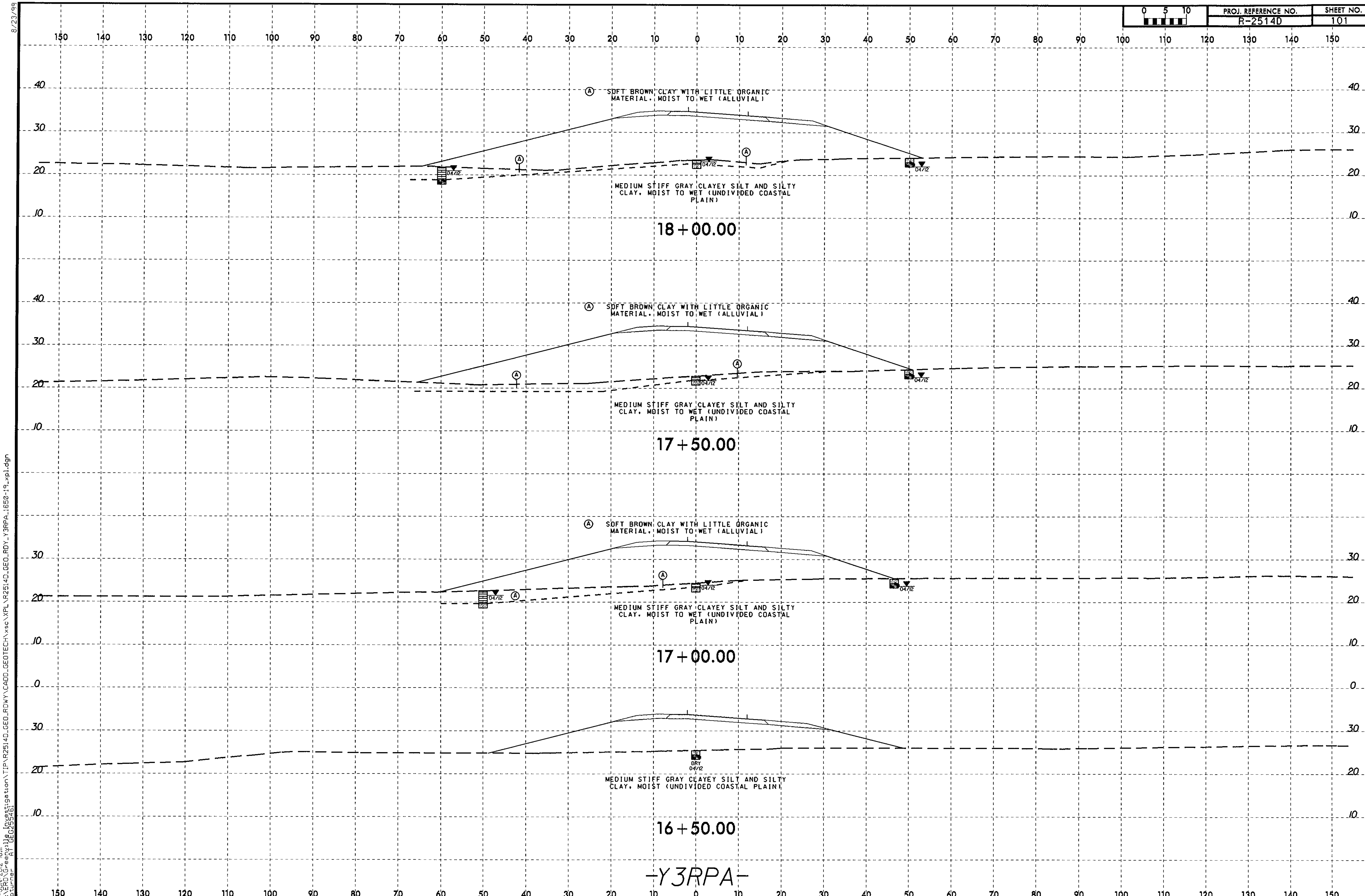
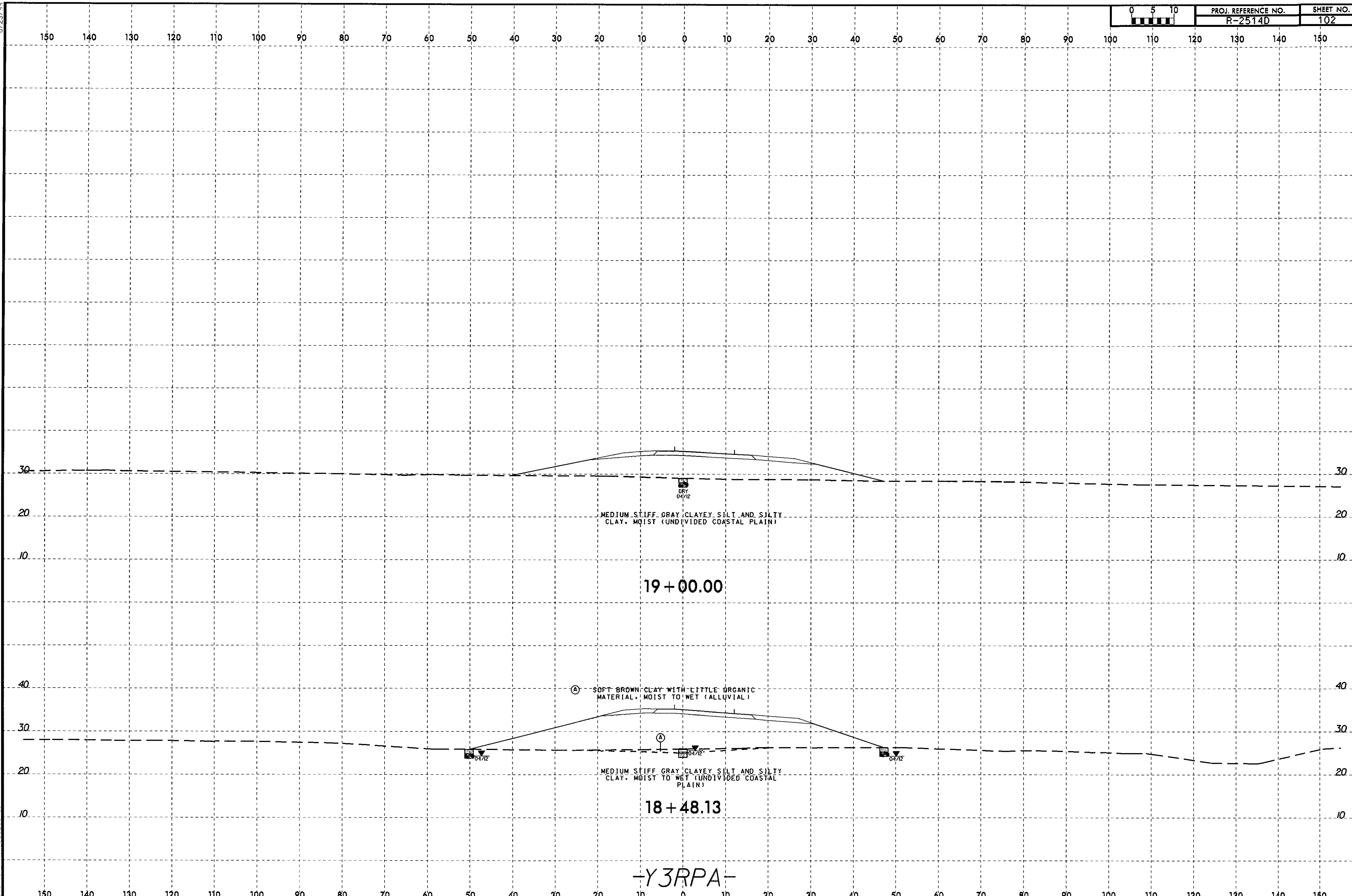
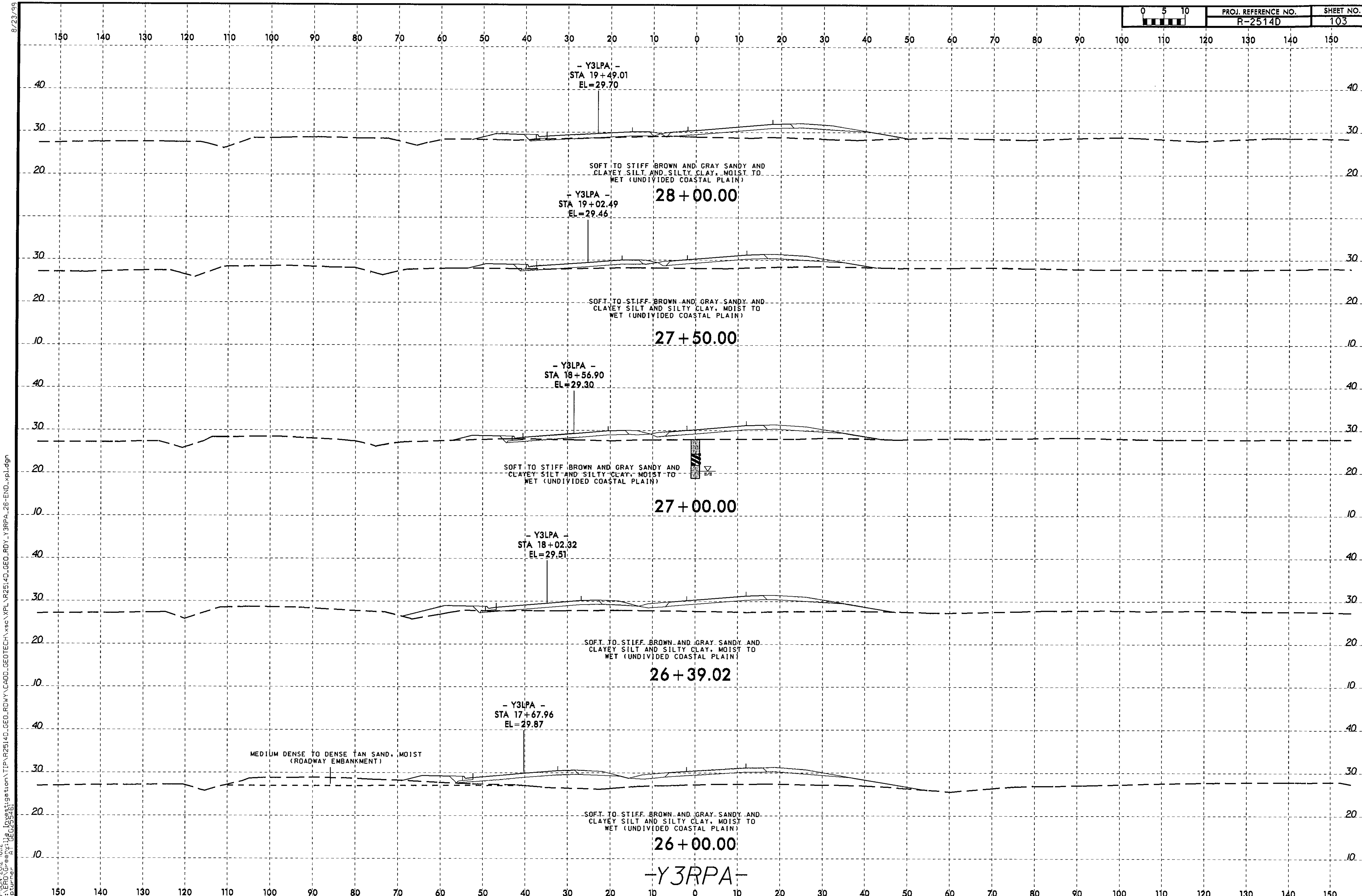


PROJ. REFERENCE NO.
R-2514D
SHEET NO.
101
0 5 10
SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL. MOIST TO WET (ALLUVIAL)
MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY. MOIST TO WET (UNDIVIDED COASTAL PLAIN)
18+00.00
SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL. MOIST TO WET (ALLUVIAL)
MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY. MOIST TO WET (UNDIVIDED COASTAL PLAIN)
17+50.00
SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL. MOIST TO WET (ALLUVIAL)
MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY. MOIST TO WET (UNDIVIDED COASTAL PLAIN)
17+00.00
DRY 04/12
MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY. MOIST (UNDIVIDED COASTAL PLAIN)
16+50.00
-Y3RPA-
8/23/99

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	102



PROJ. REFERENCE NO.	SHEET NO.
R-2514D	103



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8/23/99

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20
10

- Y3LPA -
STA 21+45.83
EL=30.74

Ⓐ MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

30+49
PAVEMENT

Ⓐ 25 3 1 12"/1'

SOFT TO STIFF BROWN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

30+00.00

- Y3LPA -
STA 20+85.85
EL=30.43

SOFT TO STIFF BROWN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

29+40.02

- Y3LPA -
STA 20+45.96
EL=30.21

SOFT TO STIFF BROWN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

29+00.00

- Y3LPA -
STA 19+87.94
EL=29.91

SOFT TO STIFF BROWN AND GRAY SANDY AND CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

28+41.08

-Y3RPA-

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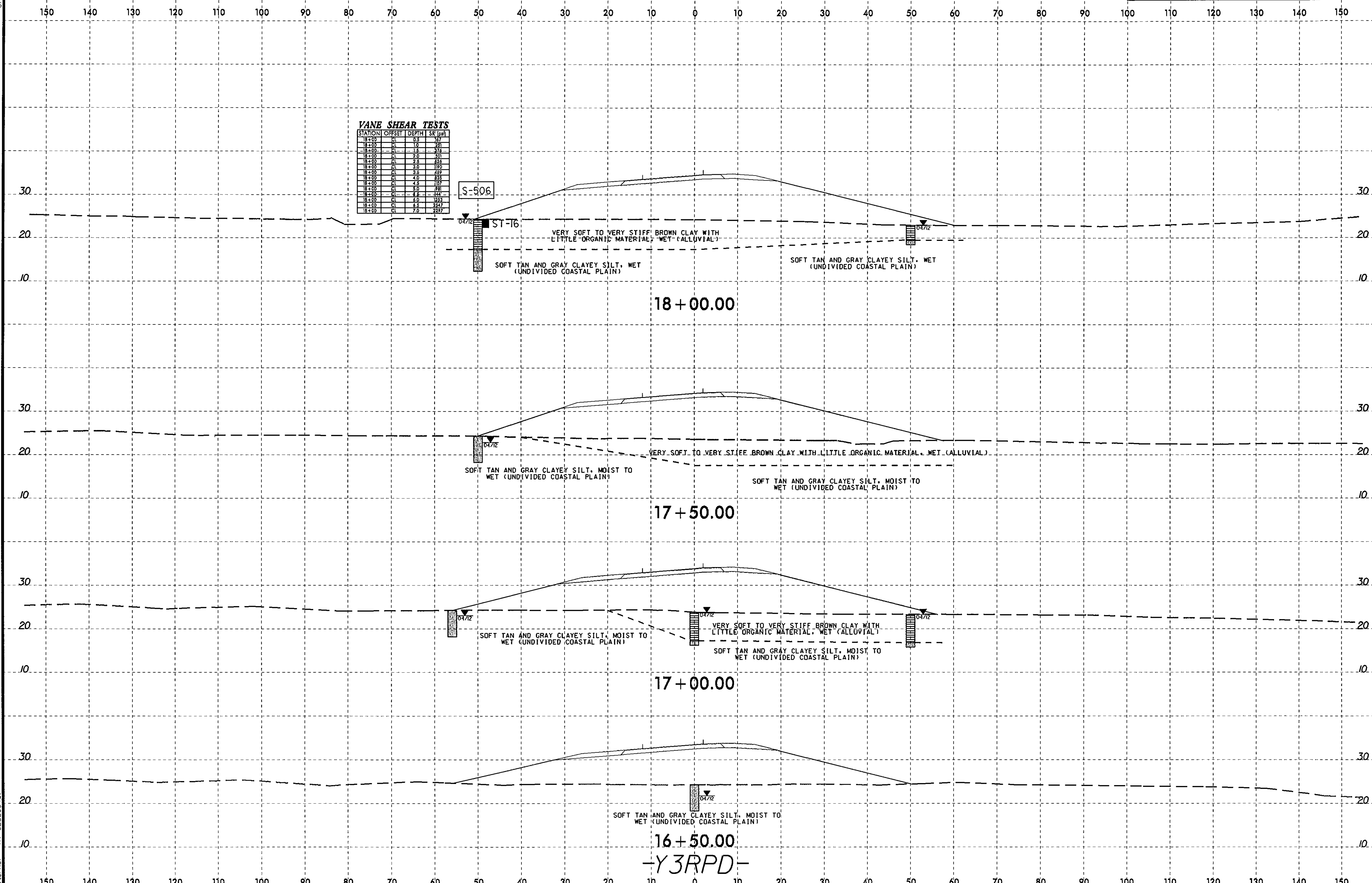
arturnar AT GEO25461

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	105

VANE SHEAR TESTS

STATION	OFFSET	DEPTH	SR (psf)
18+00	CL	0.5	167
18+00	CL	1.0	251
18+00	CL	1.5	376
18+00	CL	2.0	501
18+00	CL	2.5	626
18+00	CL	3.0	1190
18+00	CL	3.5	659
18+00	CL	4.0	835
18+00	CL	4.5	1107
18+00	CL	5.0	981
18+00	CL	5.5	1441
18+00	CL	6.0	1253
18+00	CL	6.5	2547
18+00	CL	7.0	2297



8/23/99

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cpturner AT GEG255461

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

30
20
10

SOFT TAN AND GRAY CLAYEY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
SOFT TAN AND GRAY CLAYEY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
04/12
DRY 04/12
DRY 04/12

19+50.00

S-507

VERY SOFT TO VERY STIFF BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)
SOFT TAN AND GRAY CLAYEY SILT, WET (UNDIVIDED COASTAL PLAIN)
04/12
04/12
04/12

19+00.00

VERY SOFT TO VERY STIFF BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)
SOFT TAN AND GRAY CLAYEY SILT, WET (UNDIVIDED COASTAL PLAIN)

18+50.00

-Y3RPD-

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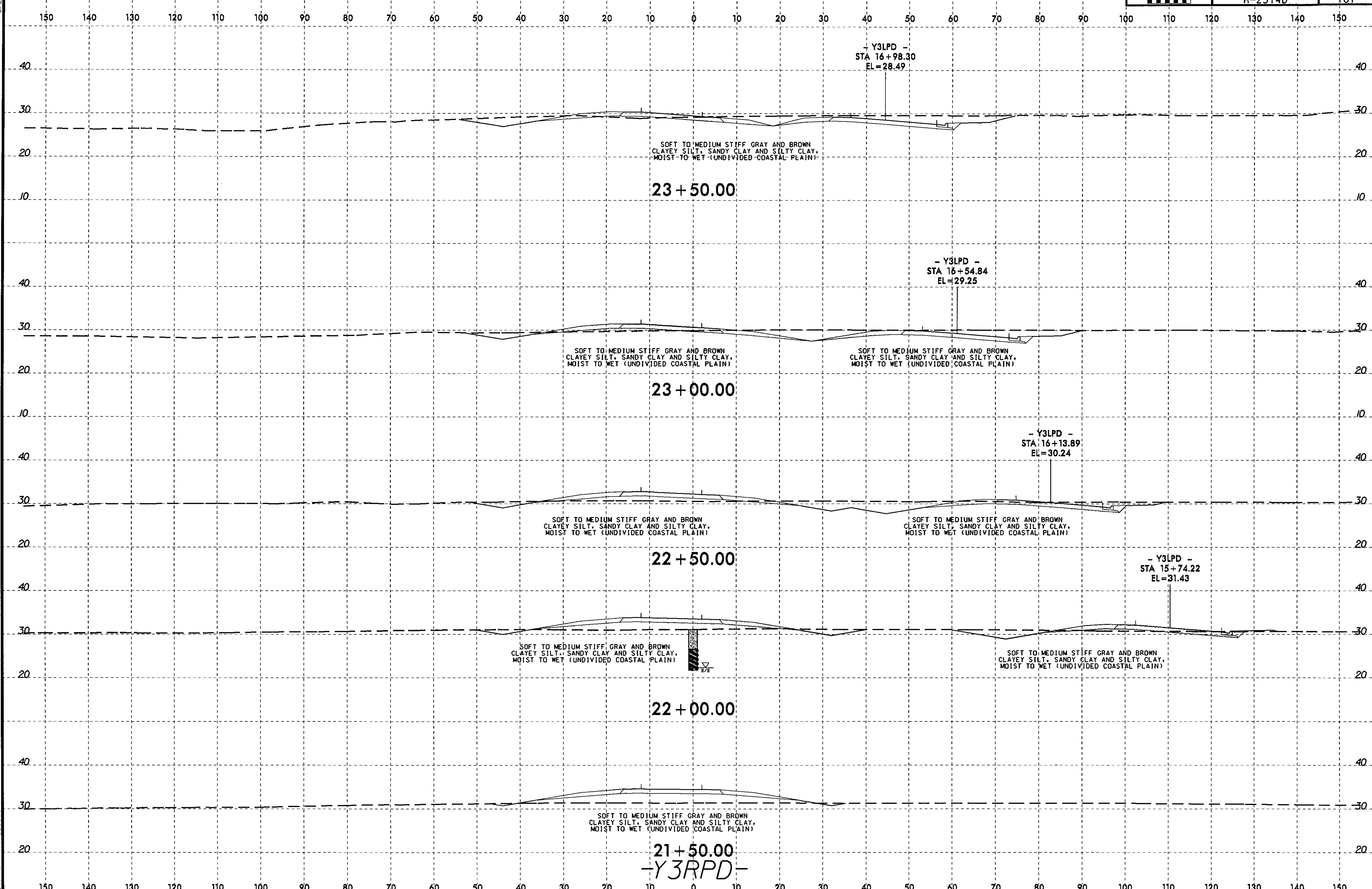
Columbus Aydlett Engineering

8/23/99

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	107



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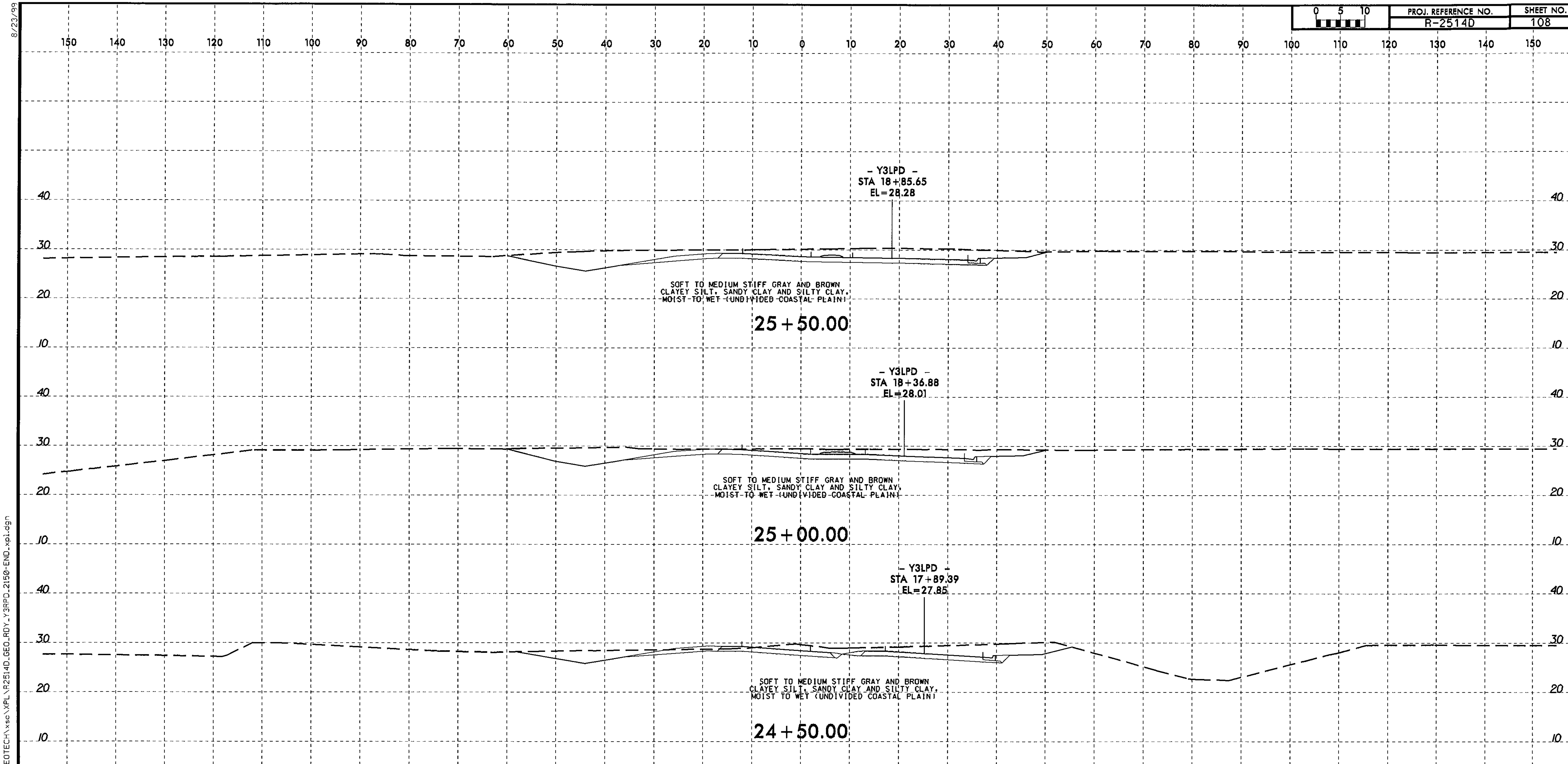
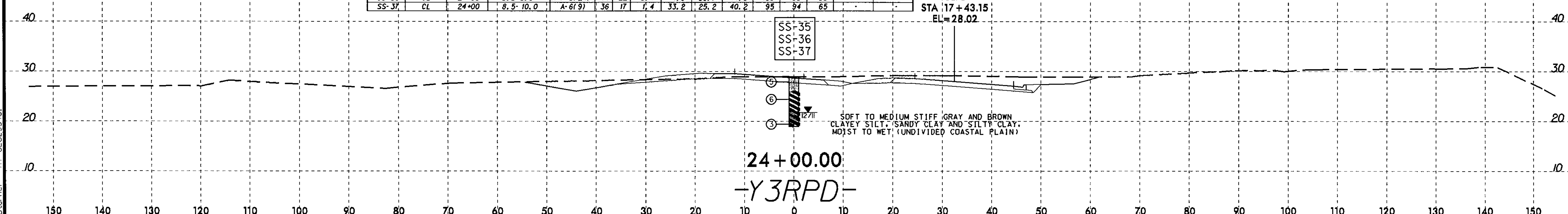


SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-35	CL	24+00	0.0-1.5	A-4(6)	30	6	2.2	2.4	71.2	24.1	100	99	96	-	-
SS-36	CL	24+00	3.5-5.0	A-7-6(24)	44	22	0.4	1.6	53.7	44.3	100	100	98	-	-
SS-37	CL	24+00	8.5-10.0	A-6(9)	36	17	1.4	33.2	25.2	40.2	95	94	65	-	-



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cpturner AT GEG255461

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	109

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30
20
10

- Y3LPD -
STA 19+93.15
EL=28.87

SOFT TO MEDIUM STIFF GRAY AND BROWN CLAYEY SILT, SANDY CLAY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

26+57.83

- Y3LPD -
STA 19+35.32
EL=28.55

DRY
II/II

SOFT TO MEDIUM STIFF GRAY AND BROWN CLAYEY SILT, SANDY CLAY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

26+00.00

-Y3RPD-

40
30
20
10

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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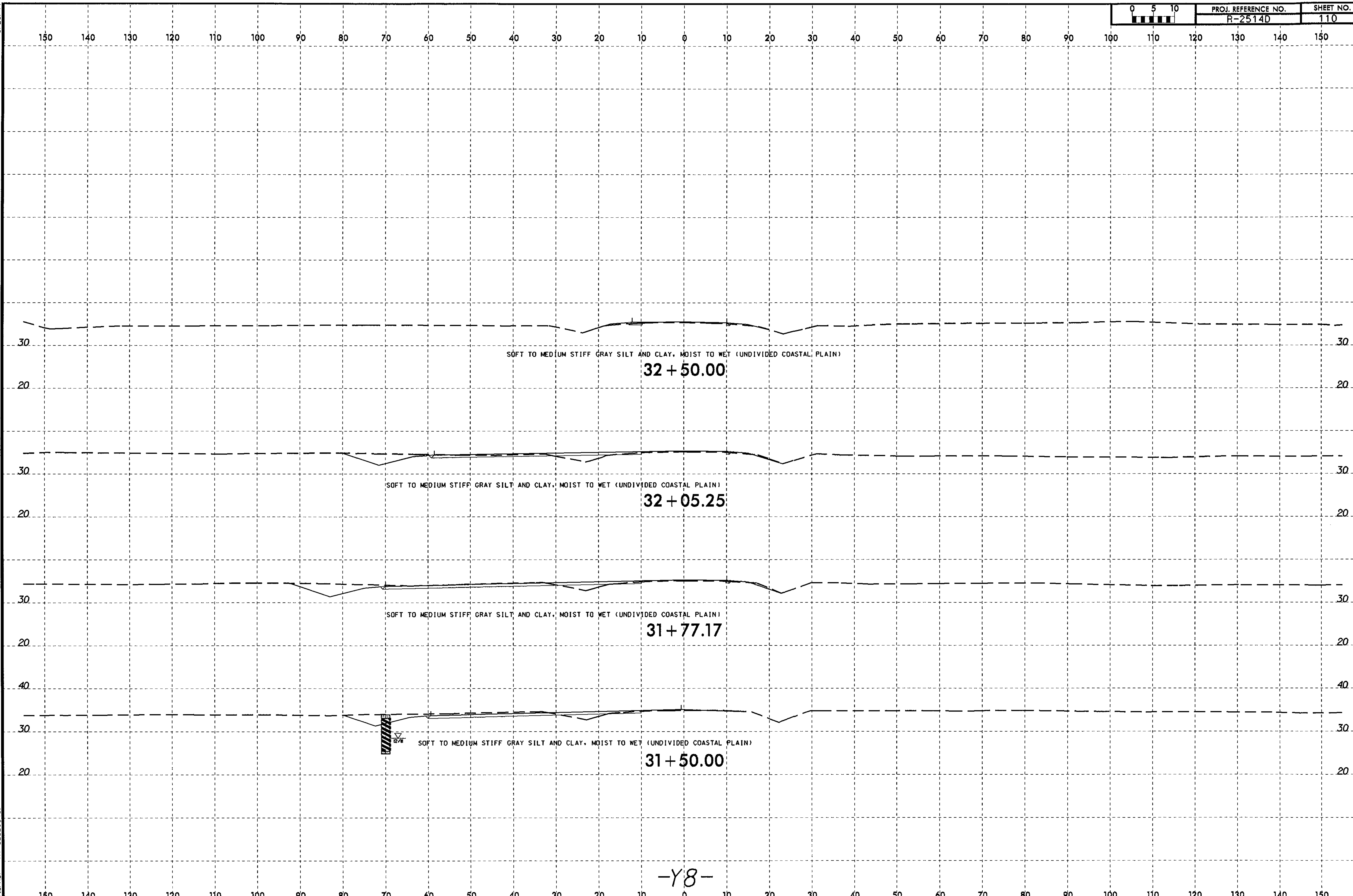
cstorner
AT (GEO25546)

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	110



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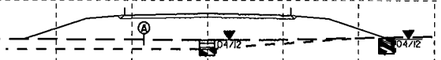
cpturner AT GEG255461

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	111

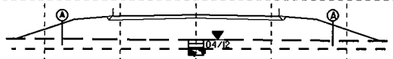
Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)



MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

12+50.00

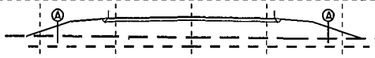
Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)



MEDIUM STIFF TO STIFF GRAY CLAY, WET (UNDIVIDED COASTAL PLAIN)

12+00.00

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)



MEDIUM STIFF TO STIFF GRAY CLAY, WET (UNDIVIDED COASTAL PLAIN)

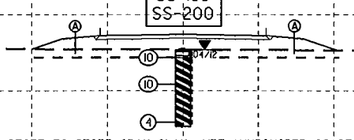
11+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-198	CL	11+00	0.0-1.5	A-7-6(18)	44	20	1.6	13.8	36.0	48.6	100	100	85	25.2	-
SS-199	CL	11+00	3.5-5.0	A-7-6(18)	50	26	1.2	28.2	17.9	52.7	100	100	79	-	-
SS-200	CL	11+00	8.5-10.0	A-7-6(21)	42	22	1.4	9.3	52.8	36.5	100	100	90	-	-

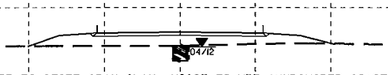
Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)

SS-198
SS-199
SS-200



MEDIUM STIFF TO STIFF GRAY CLAY, WET (UNDIVIDED COASTAL PLAIN)

11+00.00



MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

10+46.24

-Y8A-

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consumer AT UE0255461

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	112

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30

MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

15+50.00

40
30
20

MEDIUM STIFF TO STIFF GRAY CLAY, 6/12 MOIST TO WET (UNDIVIDED COASTAL PLAIN)

15+00.00

40
30

MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

14+50.00

40
30
20

MEDIUM STIFF TO STIFF GRAY CLAY, 04/12 MOIST TO WET (UNDIVIDED COASTAL PLAIN)

14+00.00

40
30
20

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)

Ⓐ 04/12 04/12

MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

13+50.00

40
30
20

Ⓐ SOFT BROWN CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)

Ⓐ 04/12 04/12

MEDIUM STIFF TO STIFF GRAY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

13+00.00

-Y8A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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capturer
AT GEO2554G

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

30+50.00

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

30+00.00

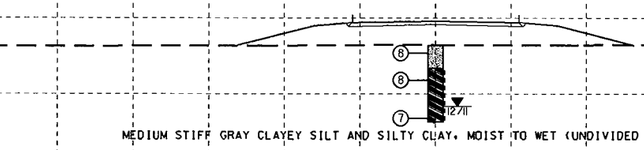
MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

29+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	% BY WEIGHT F.SAND	% BY WEIGHT SILT	% BY WEIGHT CLAY	% PASSING (SIEVES) 10	% PASSING (SIEVES) #40	% PASSING (SIEVES) #200	% MOISTURE	% ORGANIC
SS-219	CL	29+00	0.0- 1.5	A-4(6)	29	8	2.4	14.3	49.1	34.2	100	99	84	-	-
SS-220	CL	29+00	3.5- 5.0	A-6(15)	37	17	1.8	12.1	37.9	48.2	100	100	87	24.2	-
SS-221	CL	29+00	8.5- 10.0	A-6(15)	35	14	0.4	0.4	65.0	34.2	100	100	99	-	-

SS-219
SS-220
SS-221



MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

29+00.00

MEDIUM STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

28+50.00

-Y8A-

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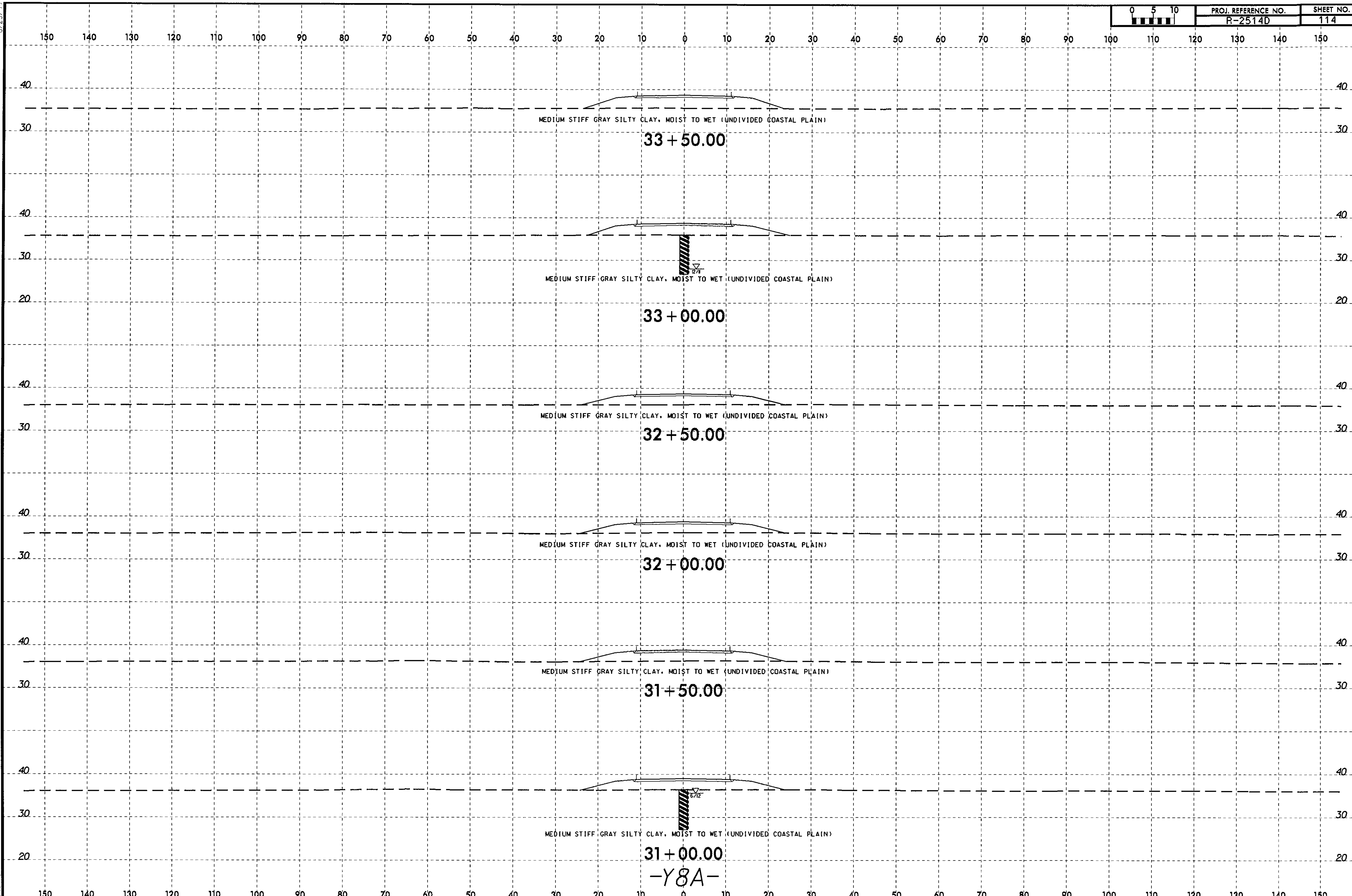
19-JUN-2012 16:17
L:\ERO\Greenville Investigation\TIP\R2514D.GEO_RDWY\CADD.GEOTECH\xsc\XPL\R2514D_GEO_RDY_Y8A_2850-3350.xpl.dgn
ATY GEO2555461

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	114



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cpturner AT GEG255461

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	115

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40
30

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

37+50.00

40
30

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

37+00.00

40
30

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

36+50.00

40
30

MEDIUM STIFF GRAY SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

36+00.00

-Y8A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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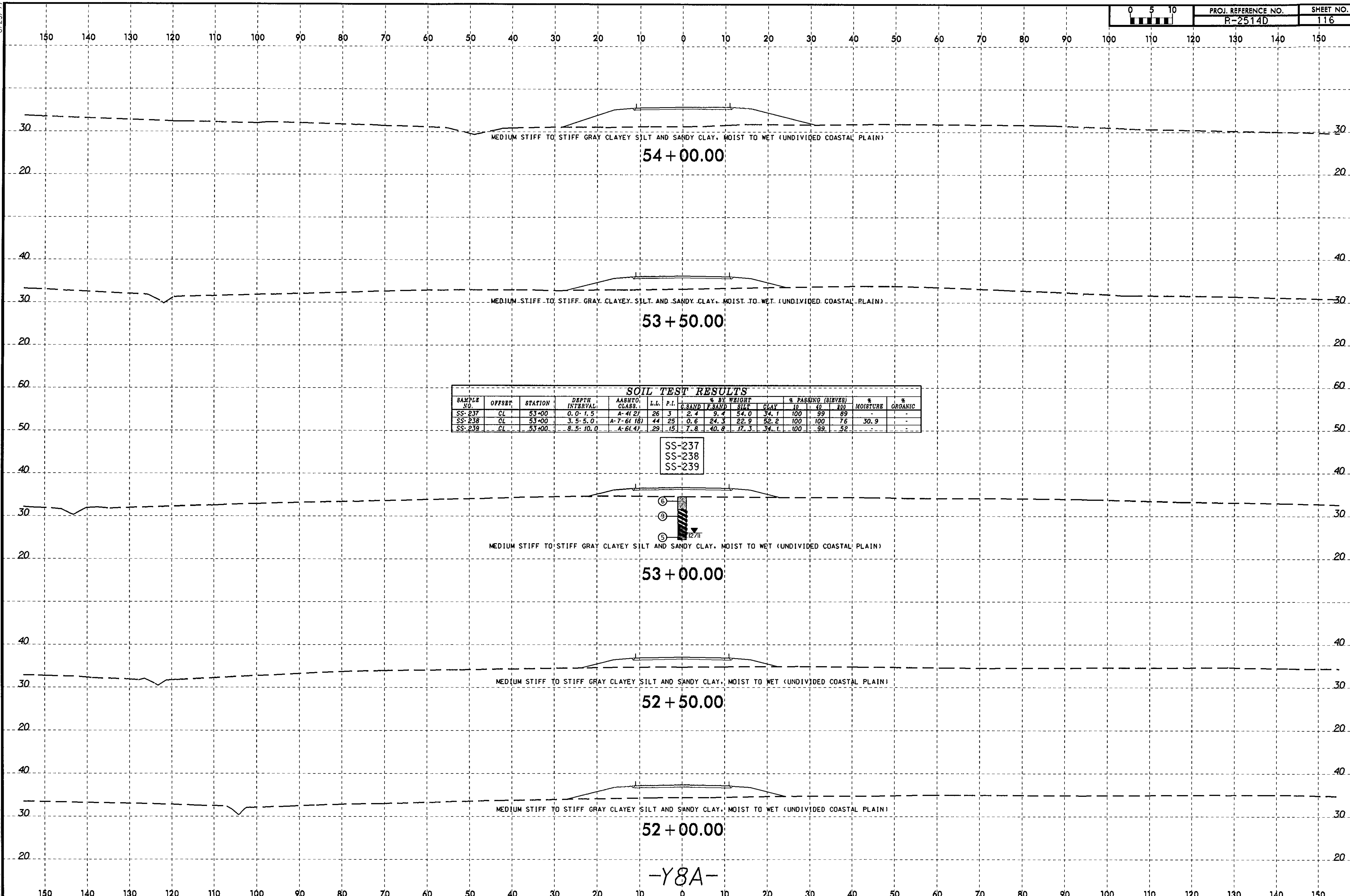
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	116

8/23/99



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-237	CL	53+00	0.0-1.5	A-4(2)	26	3	2.4	9.4	54.0	34.1	100	99	89	-	-
SS-238	CL	53+00	3.5-5.0	A-7-6(18)	44	25	0.6	24.3	22.9	52.2	100	100	76	30.9	-
SS-239	CL	53+00	8.5-10.0	A-6(4)	29	15	7.8	40.8	17.3	34.1	100	99	52	-	-

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cpturner AT GEG25546]

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40 30 20

MEDIUM STIFF TO STIFF GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

56+00.00

40 30 20

MEDIUM STIFF TO STIFF GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

55+50.00

40 30 20

MEDIUM STIFF TO STIFF GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

55+00.00

40 30 20

MEDIUM STIFF TO STIFF GRAY CLAYEY SILT AND SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

54+75.59

40 30 20

MEDIUM STIFF TO STIFF GRAY CLAYEY SILT AND SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

54+50.00

-Y8A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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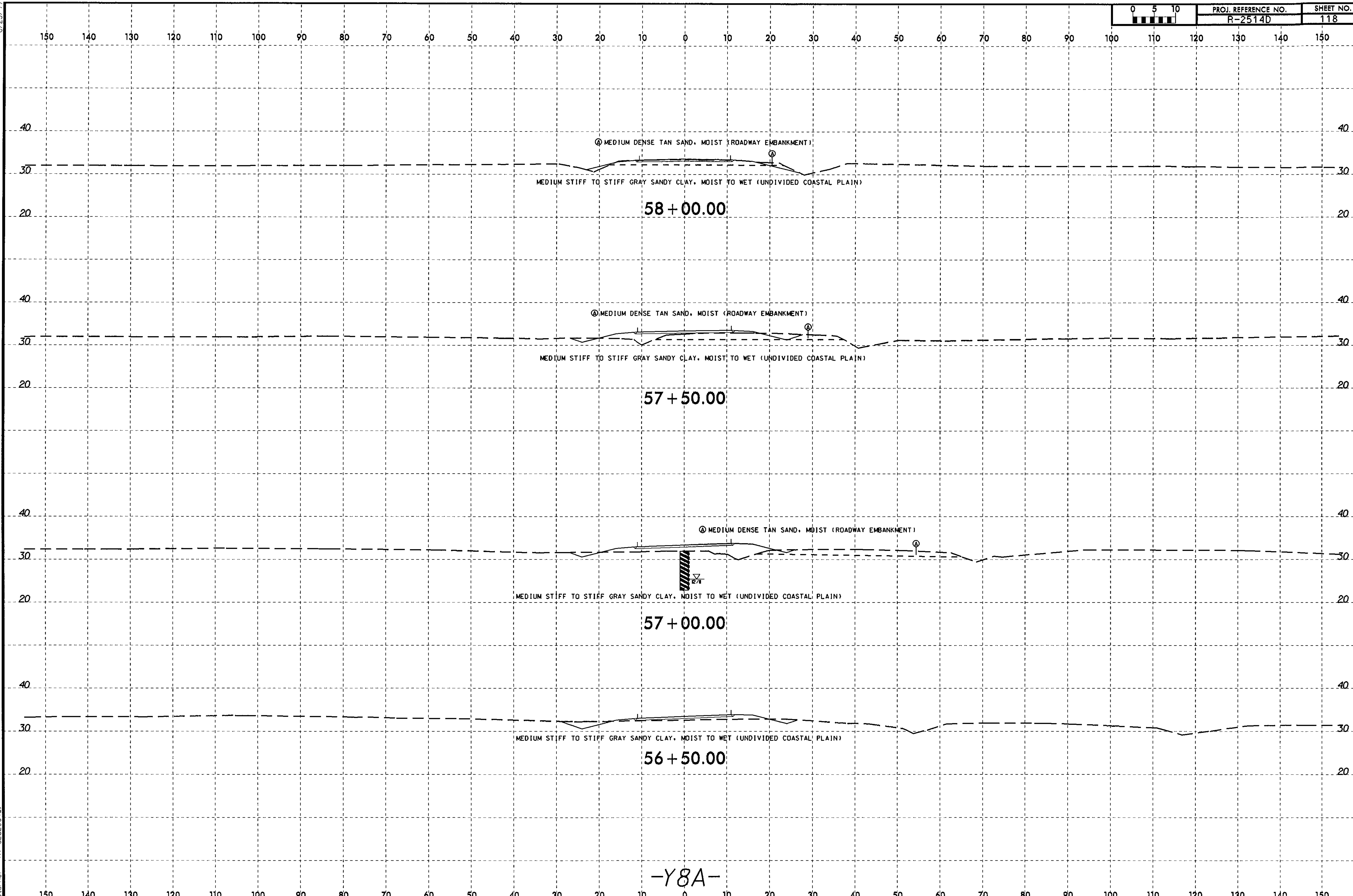
cpturner AT GEO29461

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	118



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cpturner AT GEO25461

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

40 30 20

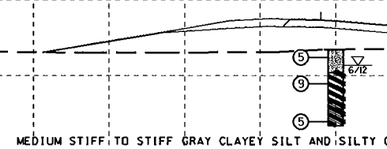
MEDIUM STIFF TO STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

15+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	200	% MOISTURE	% ORGANIC
SS-421	CL	15+00	0.0-1.5	A-4(6)	27	8	2.2	5.4	58.2	34.2	100	99	93	-	-
SS-422	CL	15+00	3.5-5.0	A-7-6(27)	50	31	4.0	12.1	31.7	52.3	100	99	84	-	-
SS-423	CL	15+00	8.5-10.0	A-6(17)	38	17	1.0	3.0	57.8	38.2	100	100	96	-	-

SS-421
SS-422
SS-423



MEDIUM STIFF TO STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

15+00.00

EARTHWORK SHEAR LINE

MEDIUM STIFF TO STIFF GRAY CLAYEY SILT AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

14+50.00

-YIORPC-

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cburner

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-2514D	120

MEDIUM STIFF TO STIFF TAN AND GRAY
SANDY AND CLAYEY SILT AND CLAY, MOIST
TO WET (UNDIVIDED COASTAL PLAIN)

12+00.00

MEDIUM STIFF TO STIFF TAN AND GRAY
SANDY AND CLAYEY SILT AND CLAY, MOIST
TO WET (UNDIVIDED COASTAL PLAIN)

11+50.00

MEDIUM STIFF TO STIFF TAN AND GRAY
SANDY AND CLAYEY SILT AND CLAY, MOIST
TO WET (UNDIVIDED COASTAL PLAIN)

11+09.61

MEDIUM STIFF TO STIFF TAN AND GRAY
SANDY AND CLAYEY SILT AND CLAY, MOIST
TO WET (UNDIVIDED COASTAL PLAIN)

10+70.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 10	40	100	% MOISTURE	% ORGANIC
SS-412	20 RT	10+50	0.0- 1.5	A-4(0)	22	2	6.6	12.7	60.6	20.1	95	91	77	-	-
SS-413	20 RT	10+50	3.5- 5.0	A-4(4)	26	5	0.4	7.6	61.8	30.2	100	100	94	-	-
SS-414	20 RT	10+50	8.5- 10.0	A-4(1)	25	6	0.4	45.6	25.8	28.1	100	100	56	-	-

SS-412
SS-413
SS-414

MEDIUM STIFF TO STIFF TAN AND GRAY
SANDY AND CLAYEY SILT, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

10+50.00

-DRV2-

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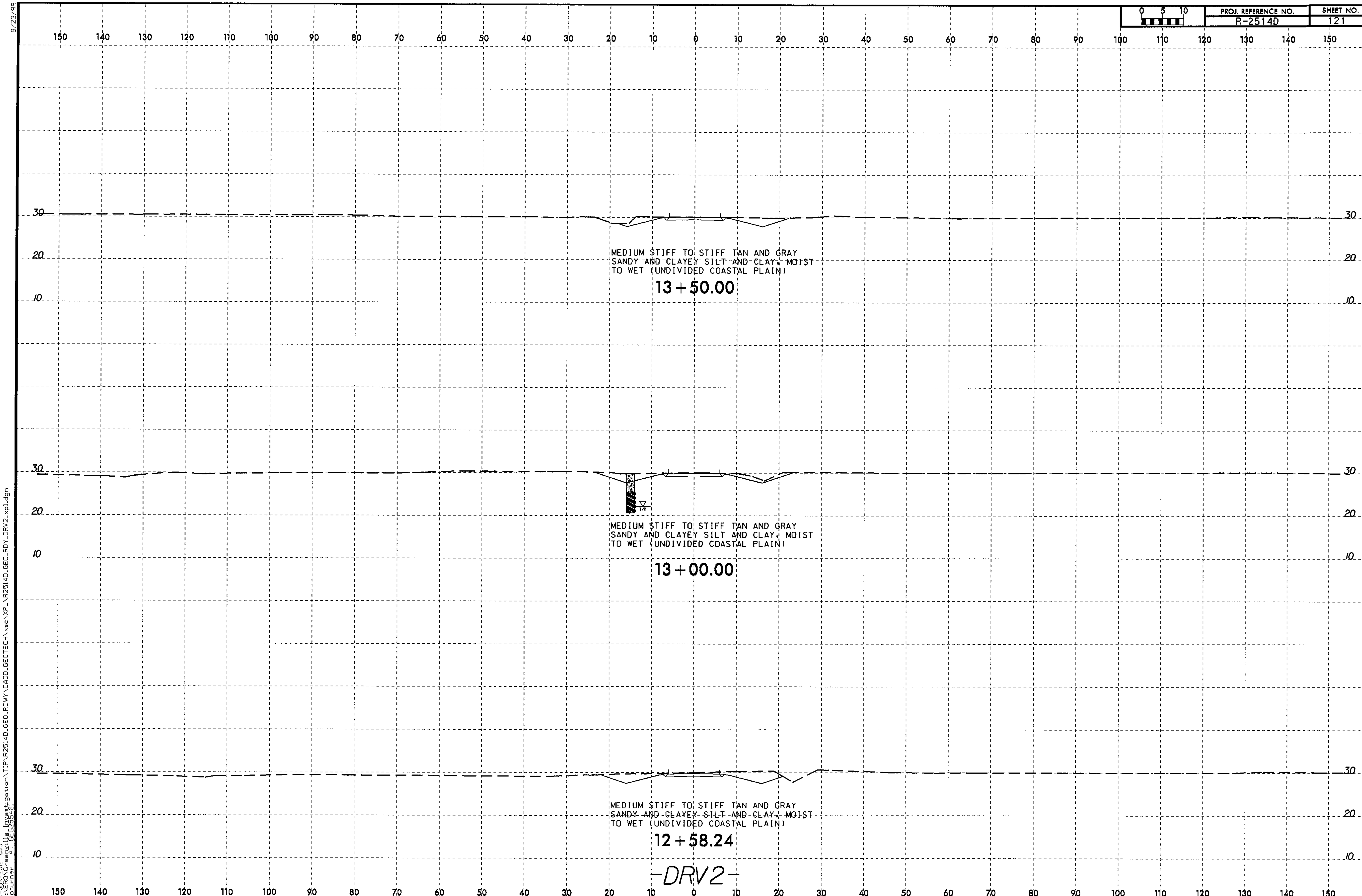
cpburner

PROJ. REFERENCE NO.	SHEET NO.
R-2514D	121



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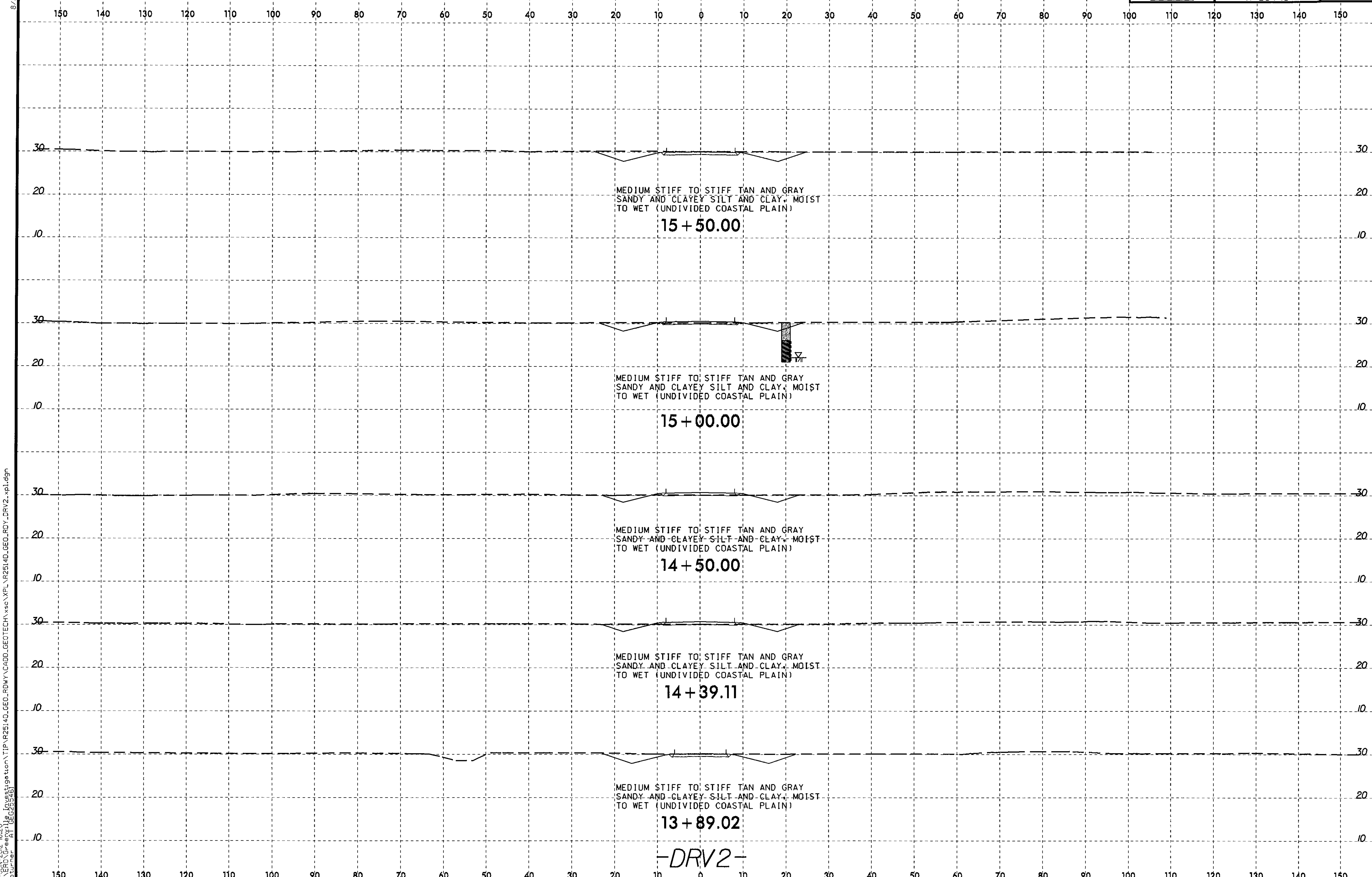
PROJ. REFERENCE NO.	SHEET NO.
R-2514D	122



8/23/99

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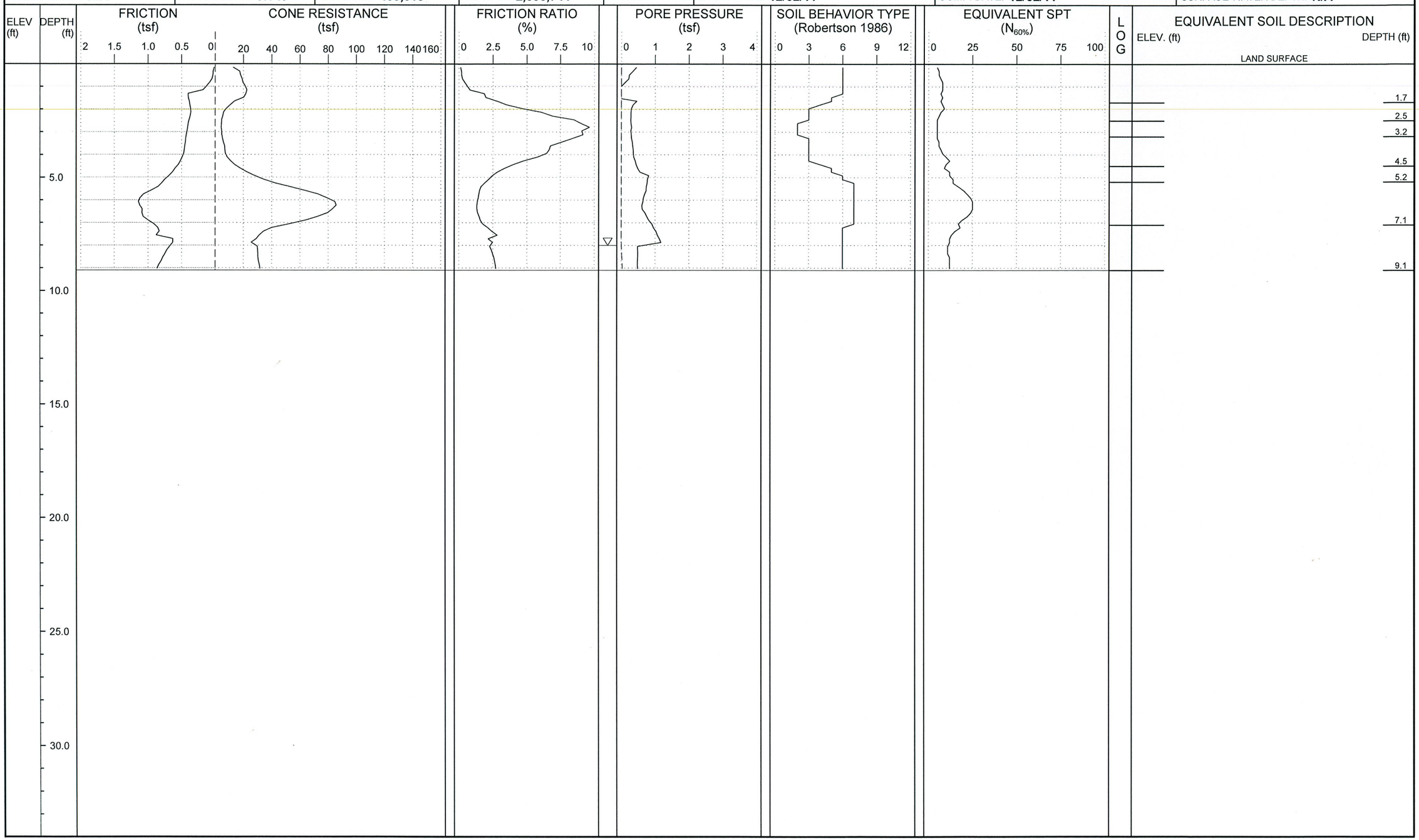
cpturner AT GEG255461

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	1
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **DRV1-1250**	STATION: **12+50**	OFFSET: **0ft CL**	ALIGNMENT: **-DRV1-**	0 HR. **8.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,318**	EASTING: **2,530,744**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

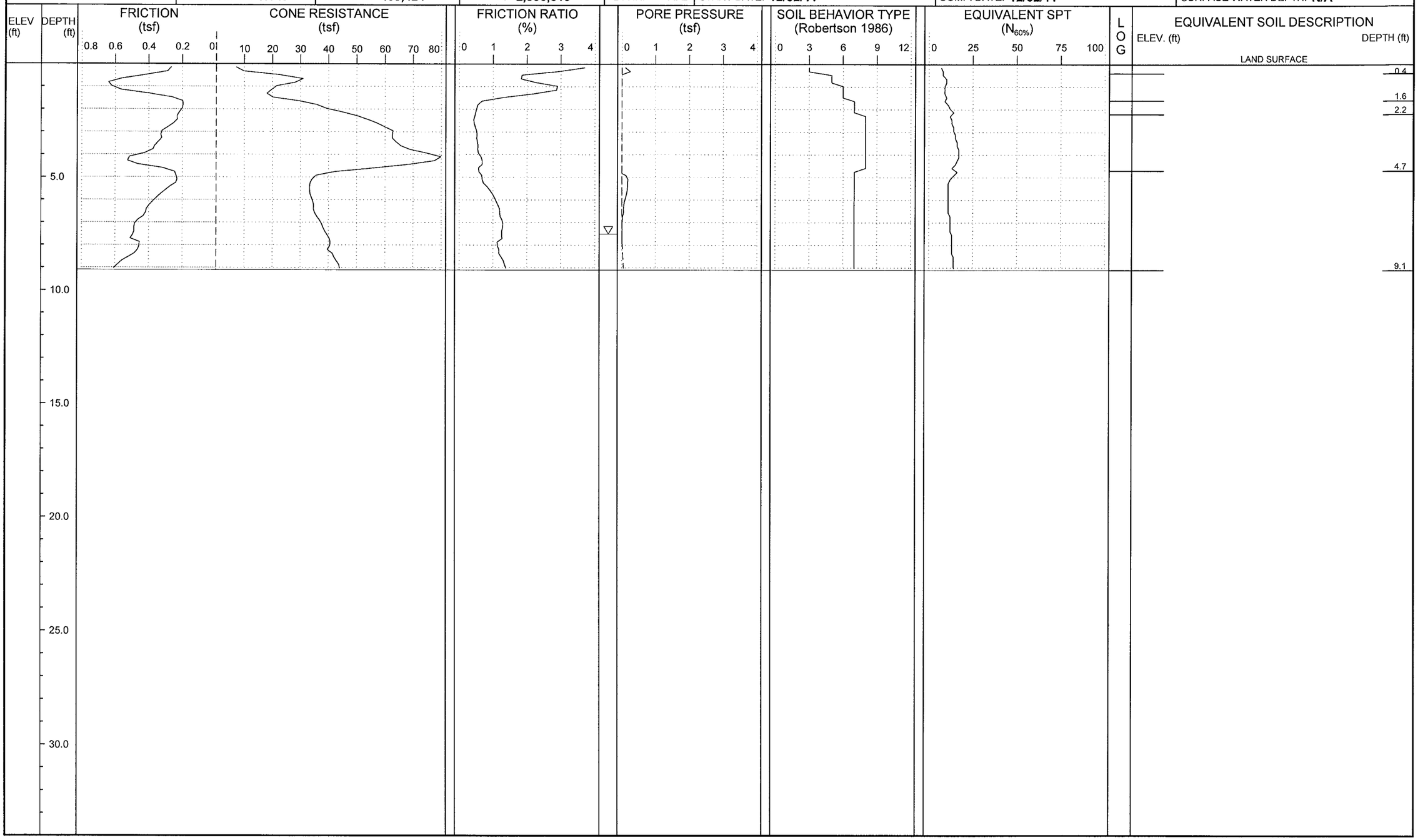


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	2
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **DRV1-1500**	STATION: **15+00**	OFFSET: **0ft CL**	ALIGNMENT: **-DRV1-**	0 HR. **7.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,424**	EASTING: **2,530,519**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

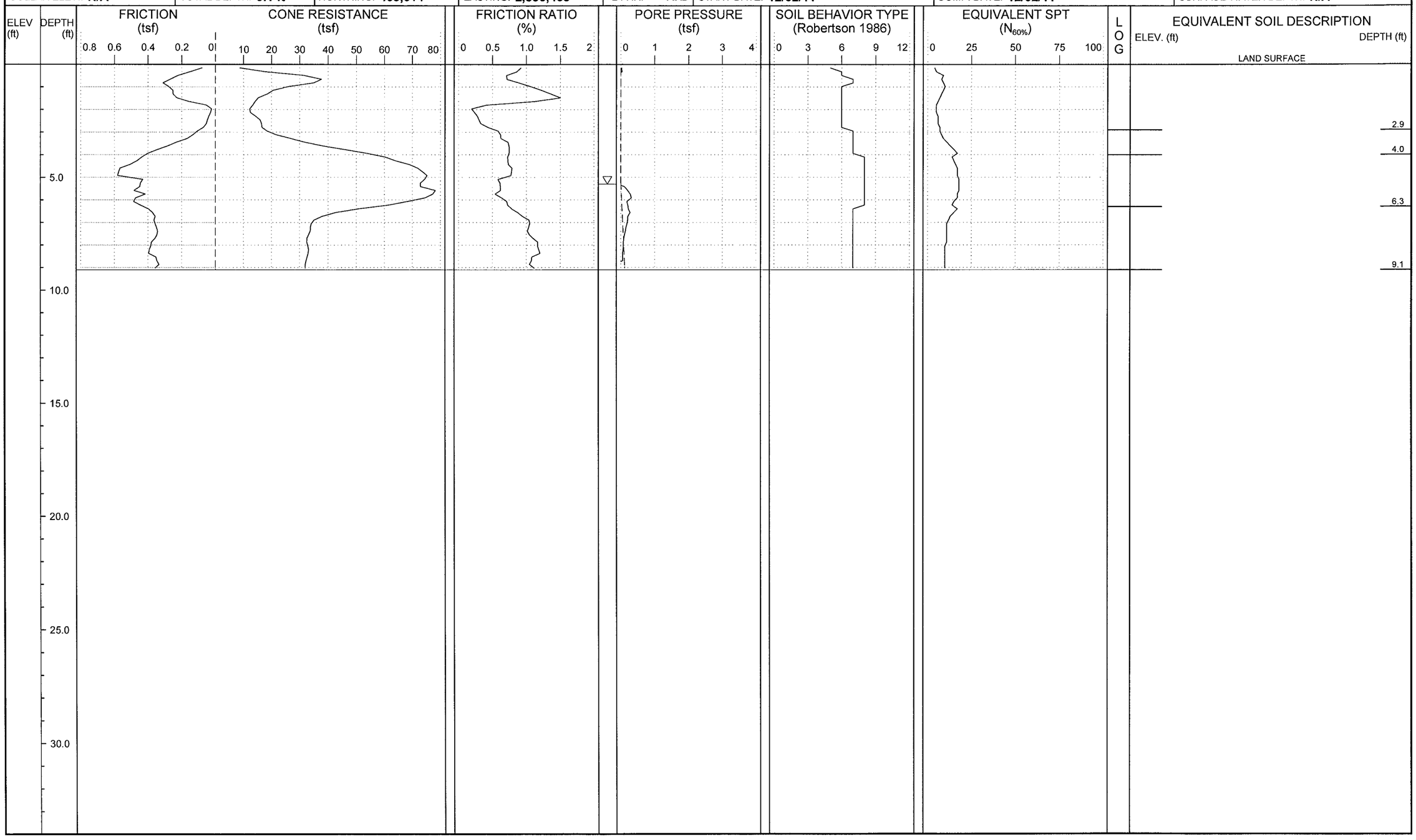


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	3
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **DRV1-1700**	STATION: **17+00**	OFFSET: **15ft LT**	ALIGNMENT: **-DRV1-**	0 HR. **5.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,614**	EASTING: **2,530,468**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

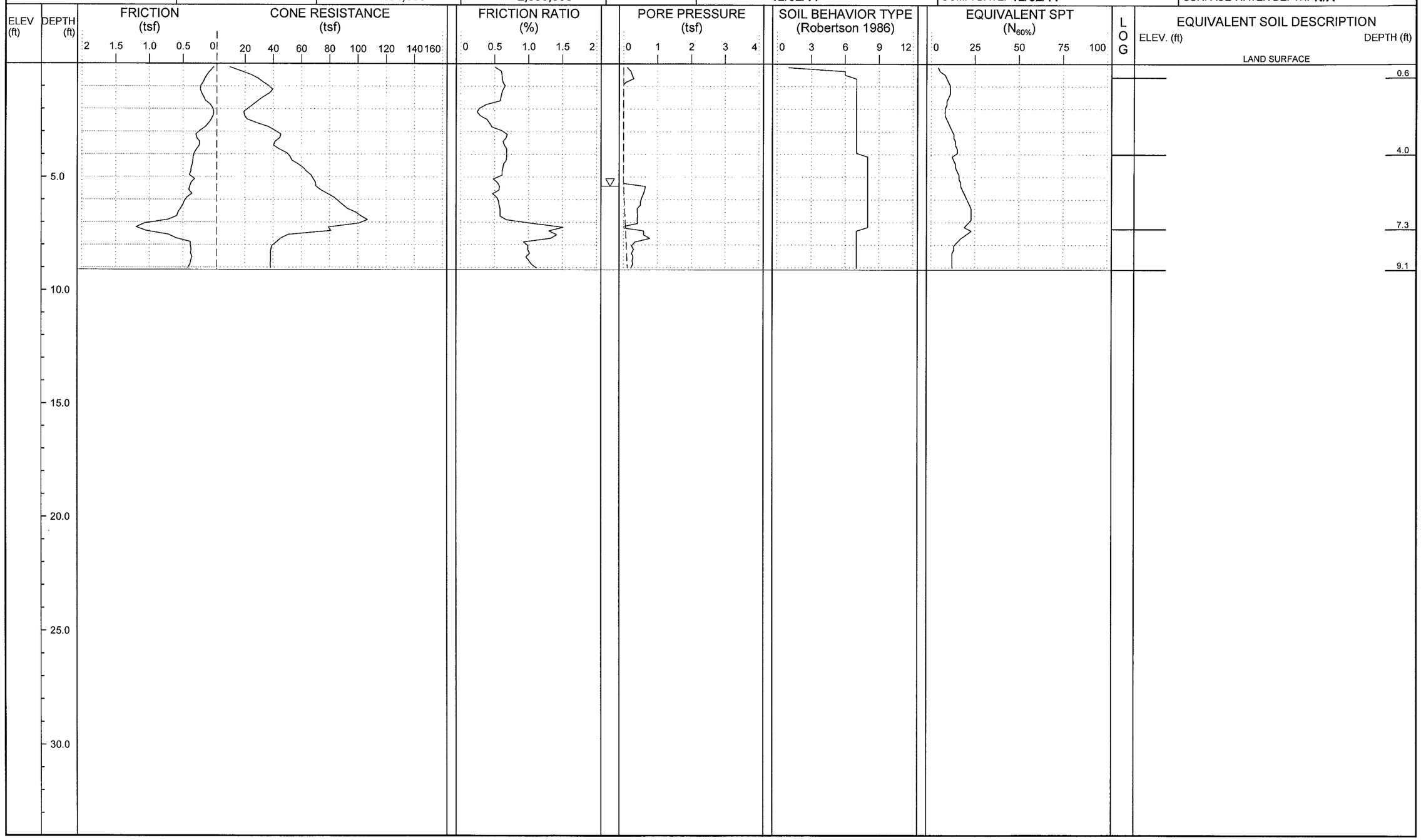


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	4
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **DRV1-2150**	STATION: **21+50**	OFFSET: **15ft RT**	ALIGNMENT: **-DRV1-**	0 HR. **5.4**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **464,058**	EASTING: **2,530,550**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

0.6

4.0

7.3

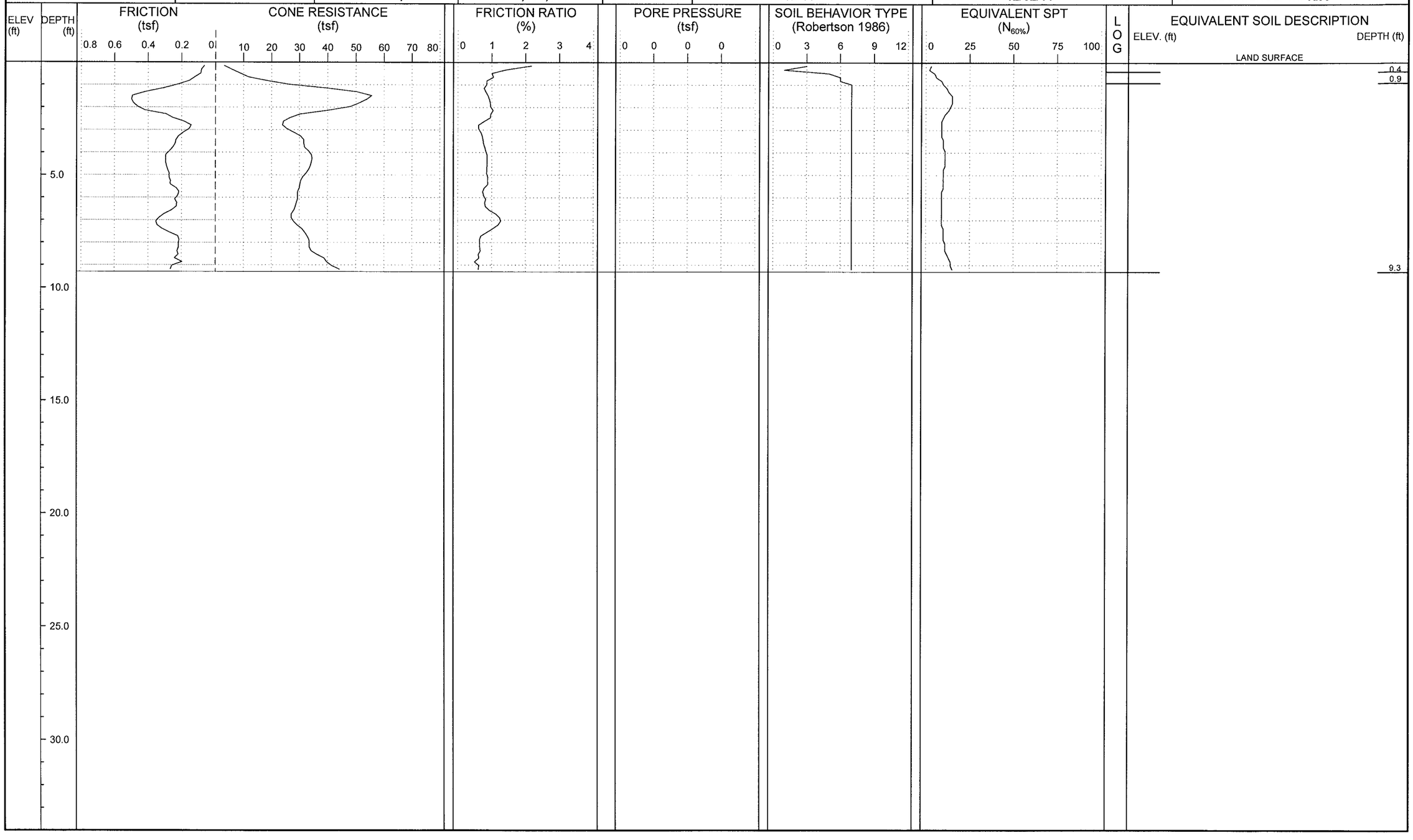
9.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	5
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **DRV1-2300**	STATION: **23+00**	OFFSET: **15ft LT**	ALIGNMENT: **-DRV1-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **464,208**	EASTING: **2,530,550**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

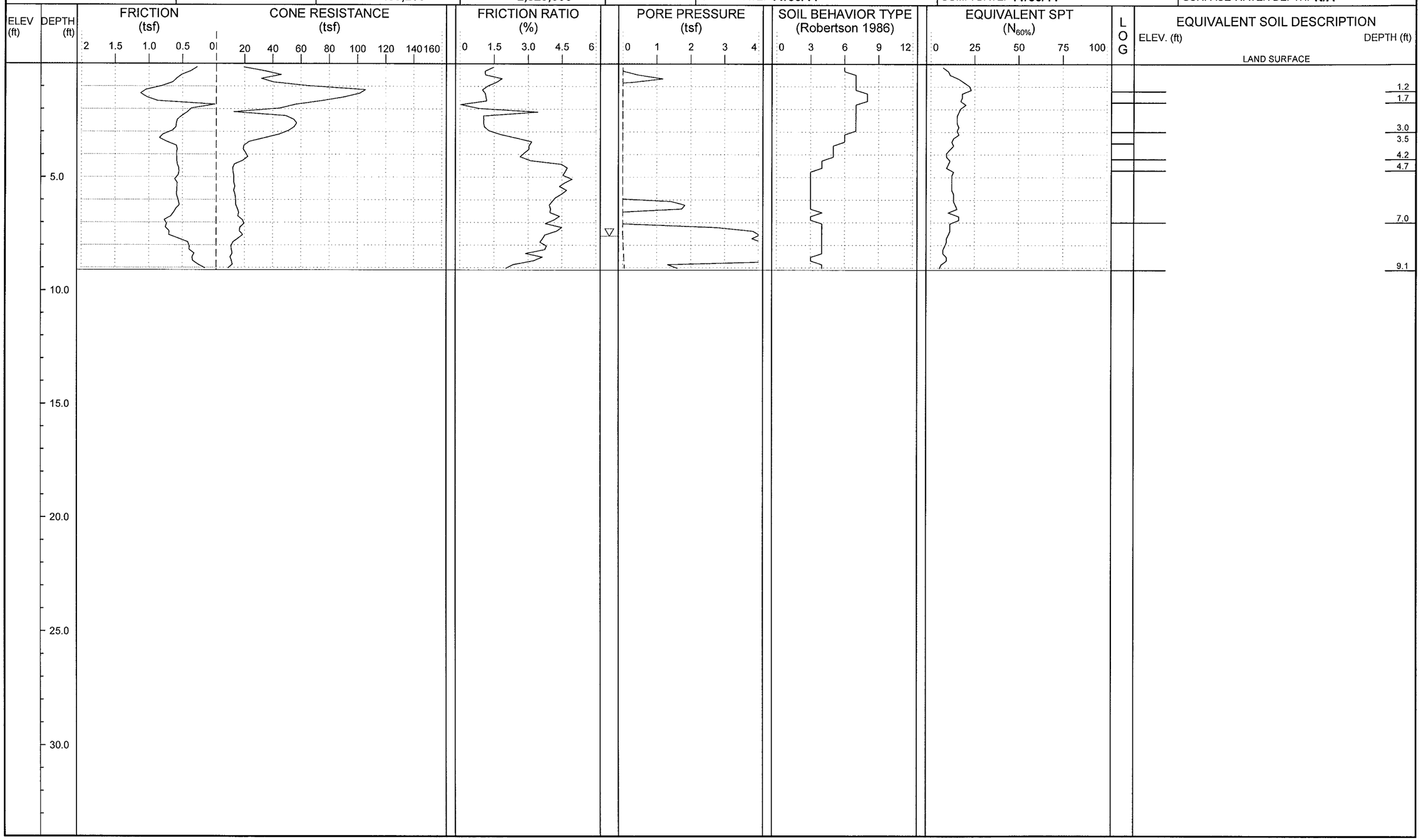


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	6
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **DRV2-1300**	STATION: **13+00**	OFFSET: **15ft LT**	ALIGNMENT: **-DRV2-**	0 HR. **7.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,205**	EASTING: **2,529,666**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

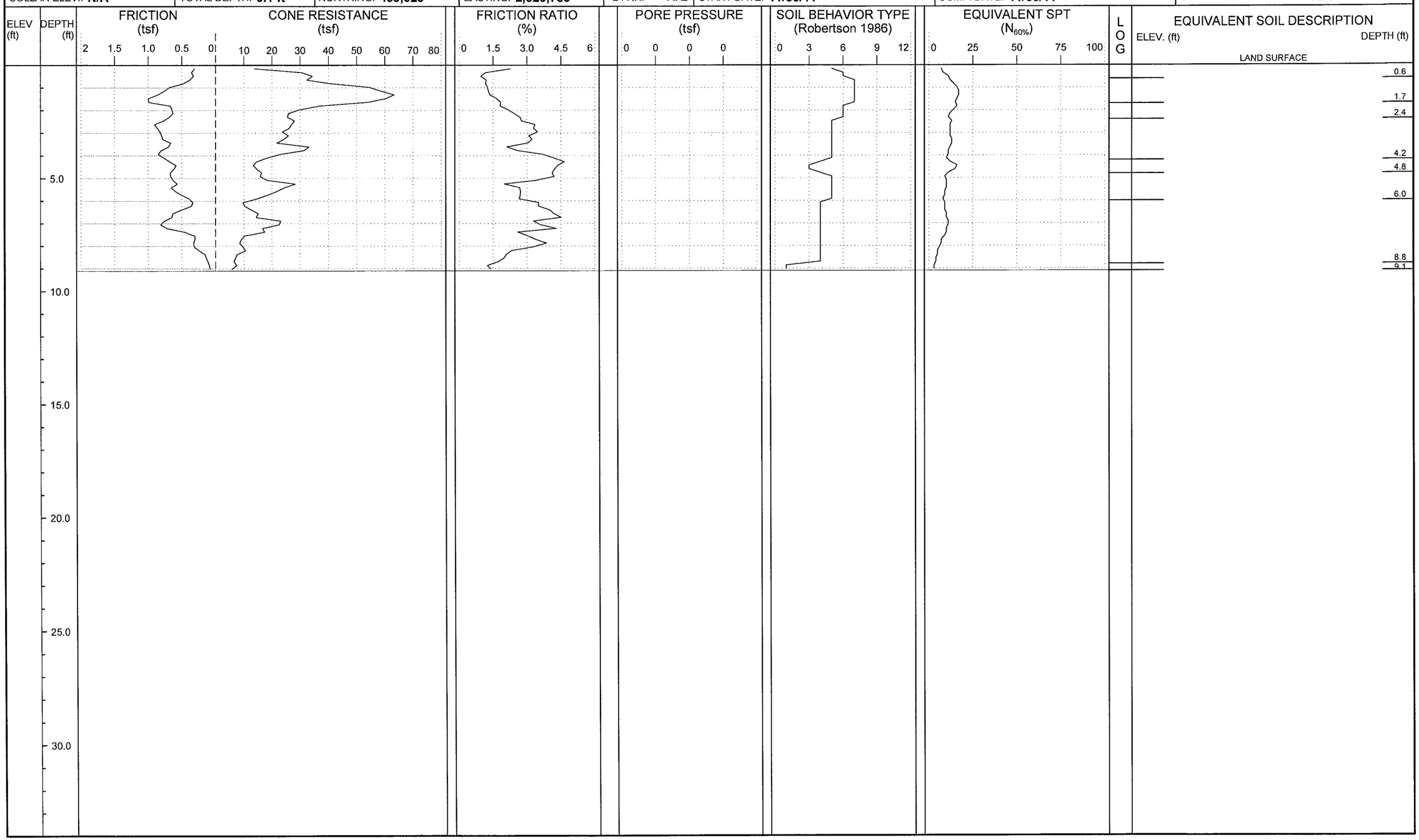


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	7
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **DRV2-1500**	STATION: **13+00**	OFFSET: **20ft RT**	ALIGNMENT: **-DRV2-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,029**	EASTING: **2,529,783**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

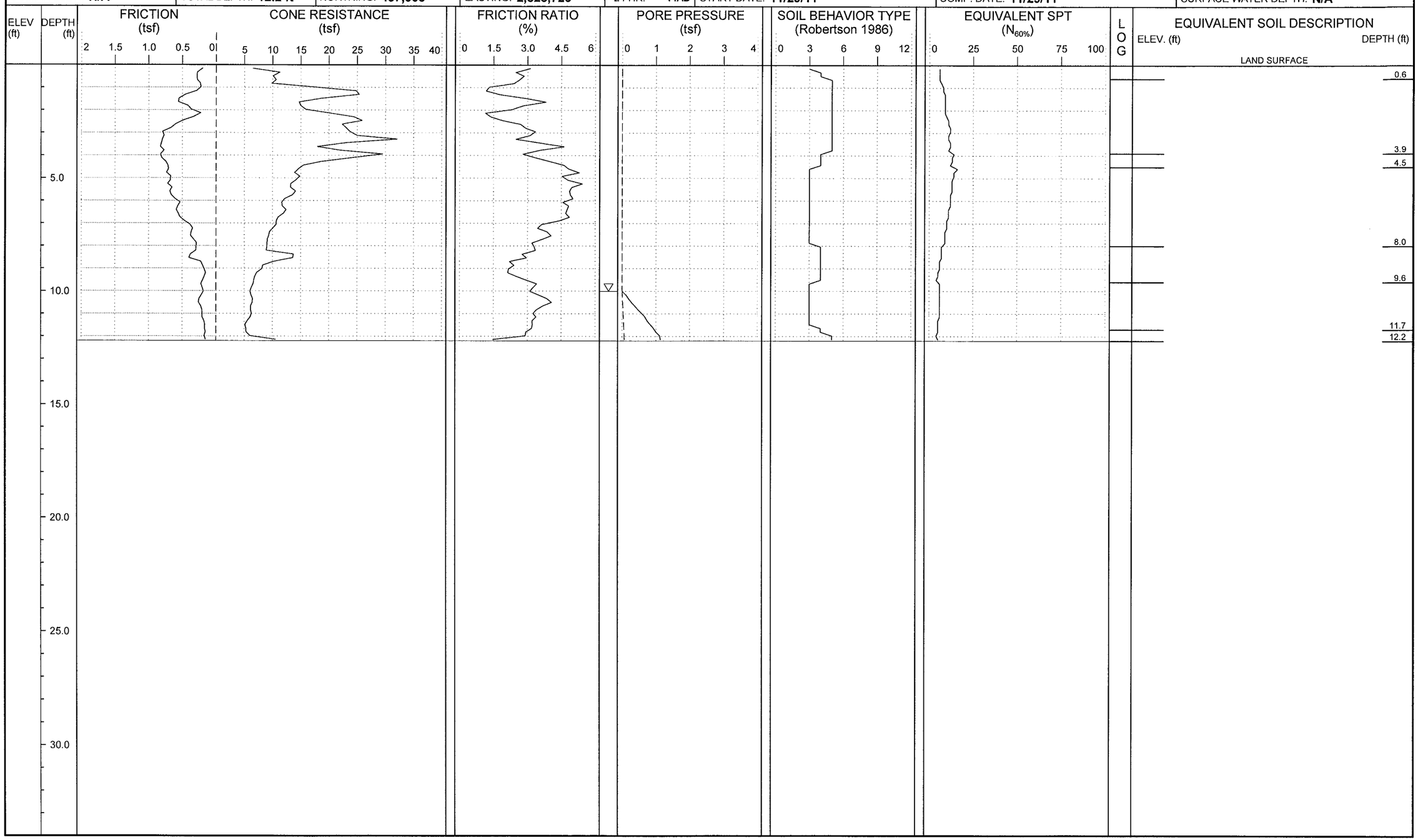


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	8
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-30500**	STATION: **305+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **12.2 ft**	NORTHING: **457,903**	EASTING: **2,528,726**	24 HR. **FIAD**	START DATE: **11/29/11**	COMP. DATE: **11/29/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

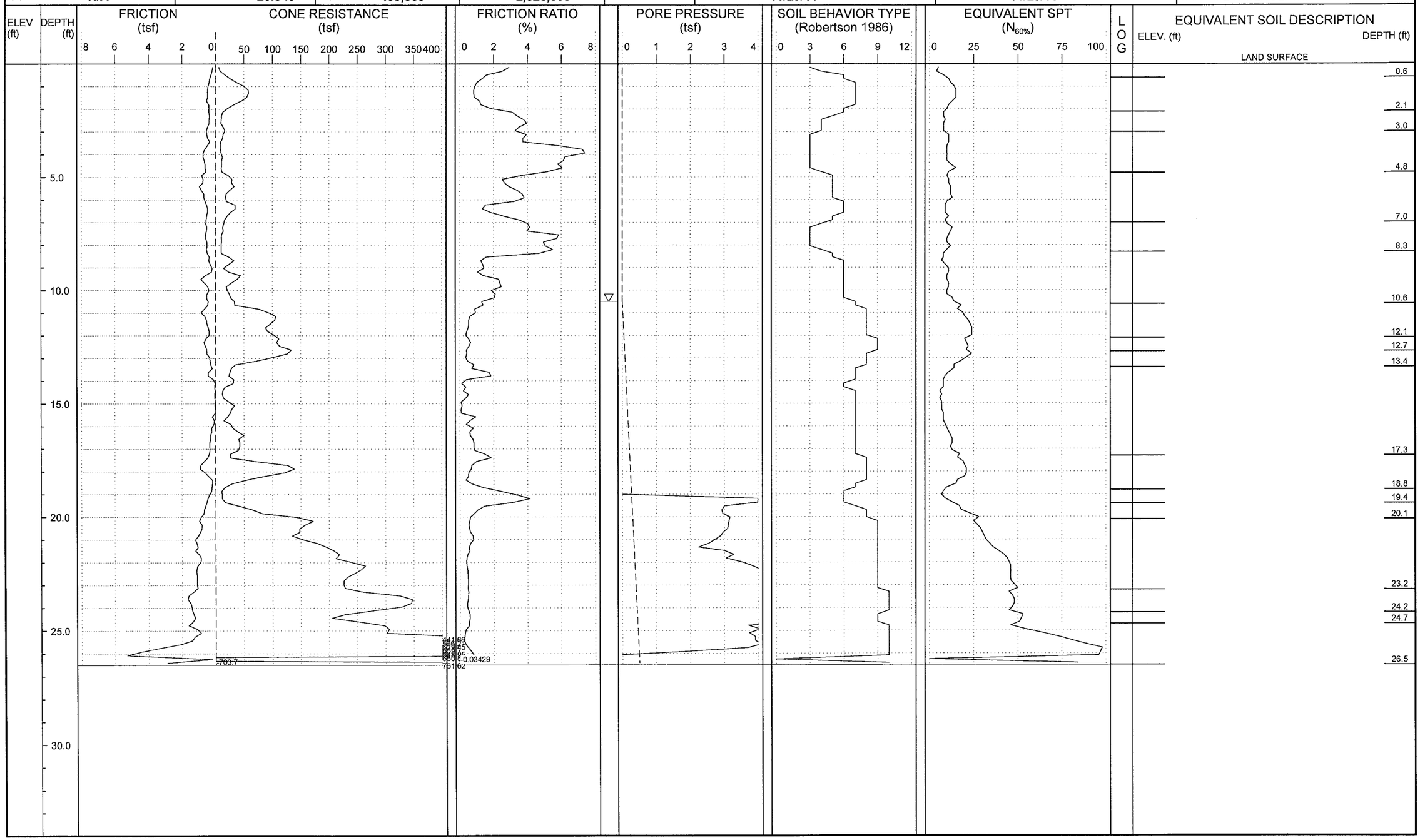
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.6
	3.9
	4.5
	8.0
	9.6
	11.7
	12.2

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	9
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-31500**	STATION: **315+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **26.5 ft**	NORTHING: **458,865**	EASTING: **2,528,996**	24 HR. **FIAD**	START DATE: **11/29/11**	COMP. DATE: **11/29/11**	SURFACE WATER DEPTH: **N/A**

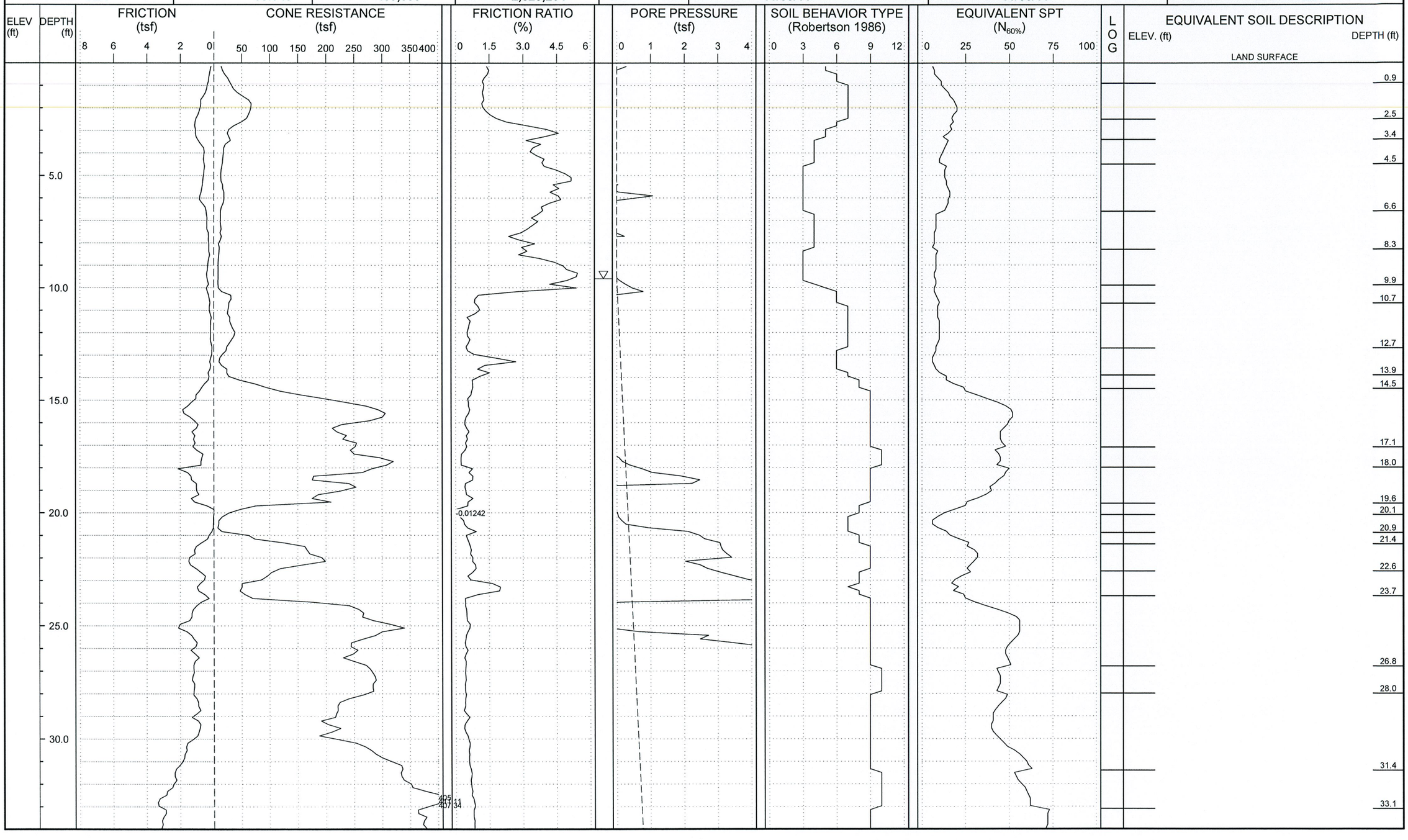


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	10
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-32200**	STATION: **322+00**	OFFSET: **40ft LT**	ALIGNMENT: **-L-**	0 HR. **9.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **38.0 ft**	NORTHING: **459,535**	EASTING: **2,529,204**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

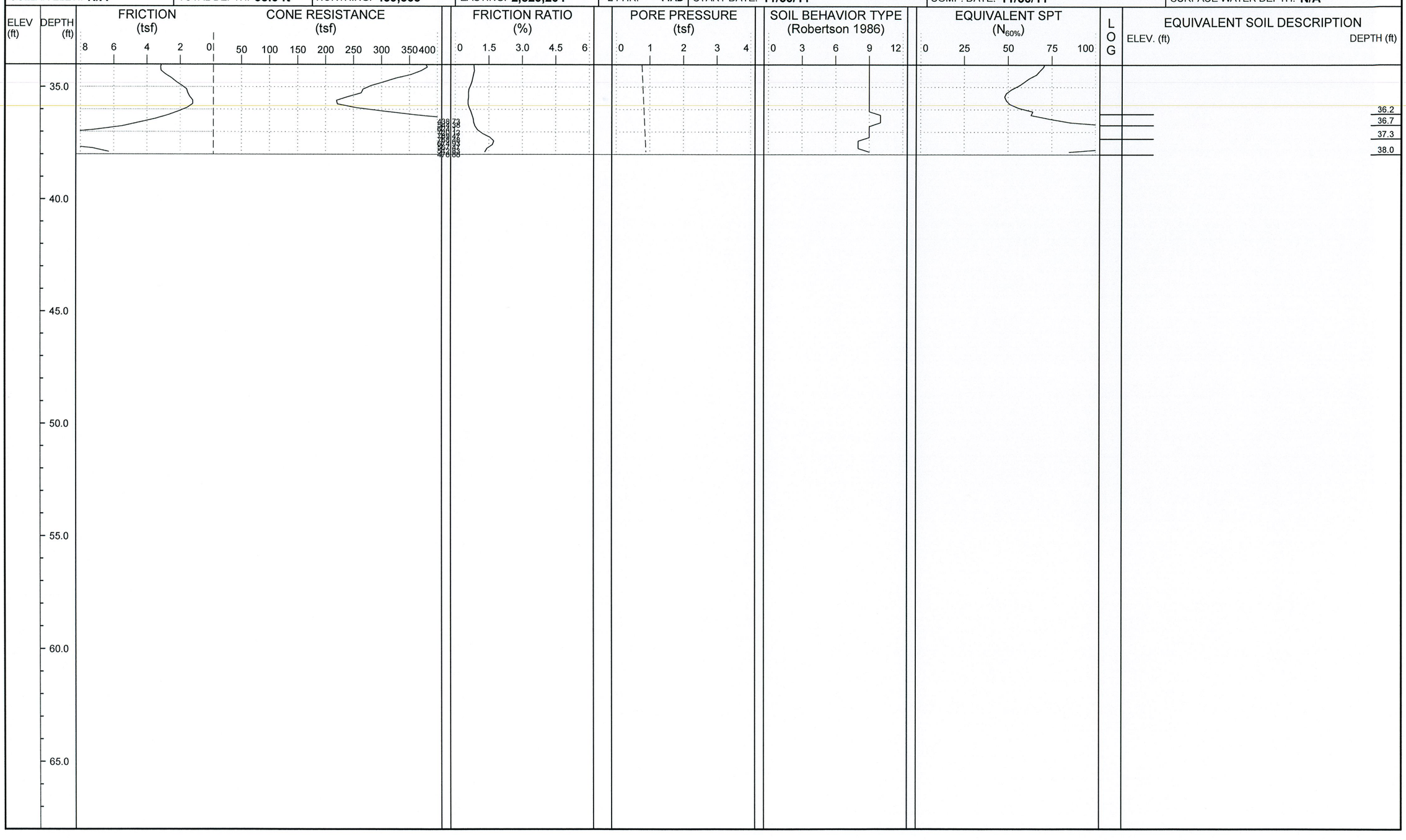
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.9
	2.5
	3.4
	4.5
	6.6
	8.3
	9.9
	10.7
	12.7
	13.9
	14.5
	17.1
	18.0
	19.6
	20.1
	20.9
	21.4
	22.6
	23.7
	26.8
	28.0
	31.4
	33.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	11
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-32200**	STATION: **322+00**	OFFSET: **40ft LT**	ALIGNMENT: **-L-**	0 HR. **9.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **38.0 ft**	NORTHING: **459,535**	EASTING: **2,529,204**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

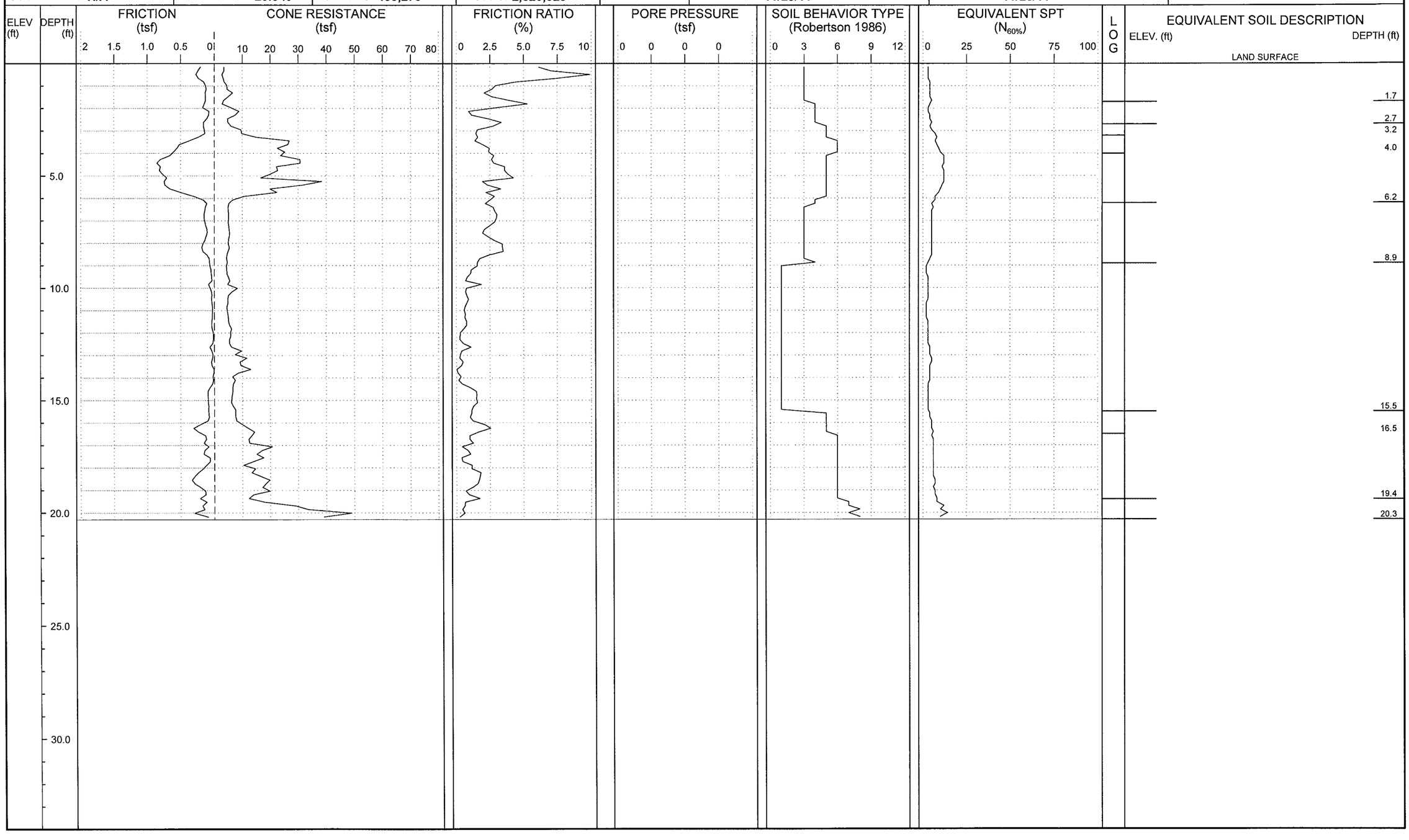


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	12
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-33000**	STATION: **330+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **20.3 ft**	NORTHING: **460,270**	EASTING: **2,529,523**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

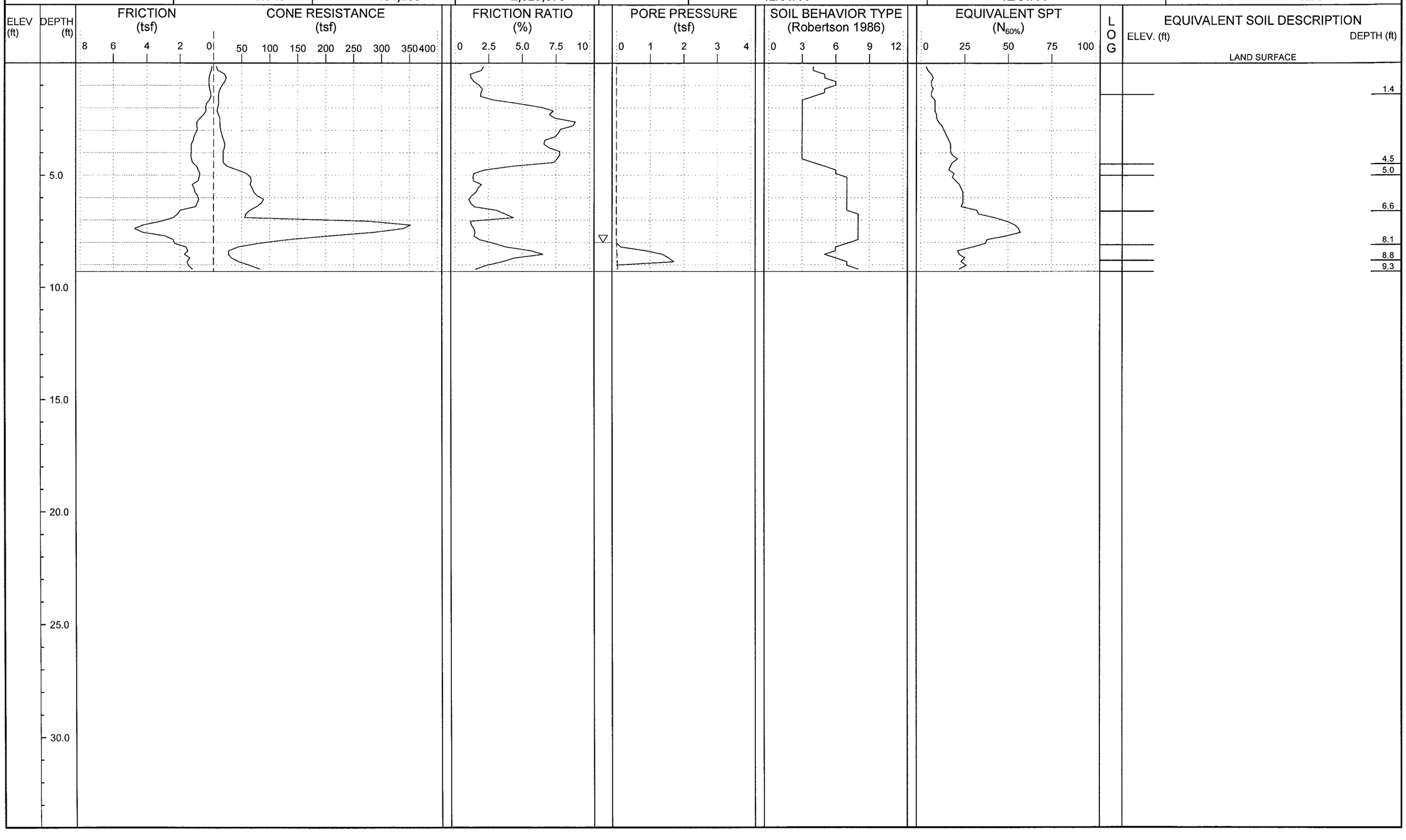


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	13
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-34000**	STATION: **340+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **461,206**	EASTING: **2,529,875**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

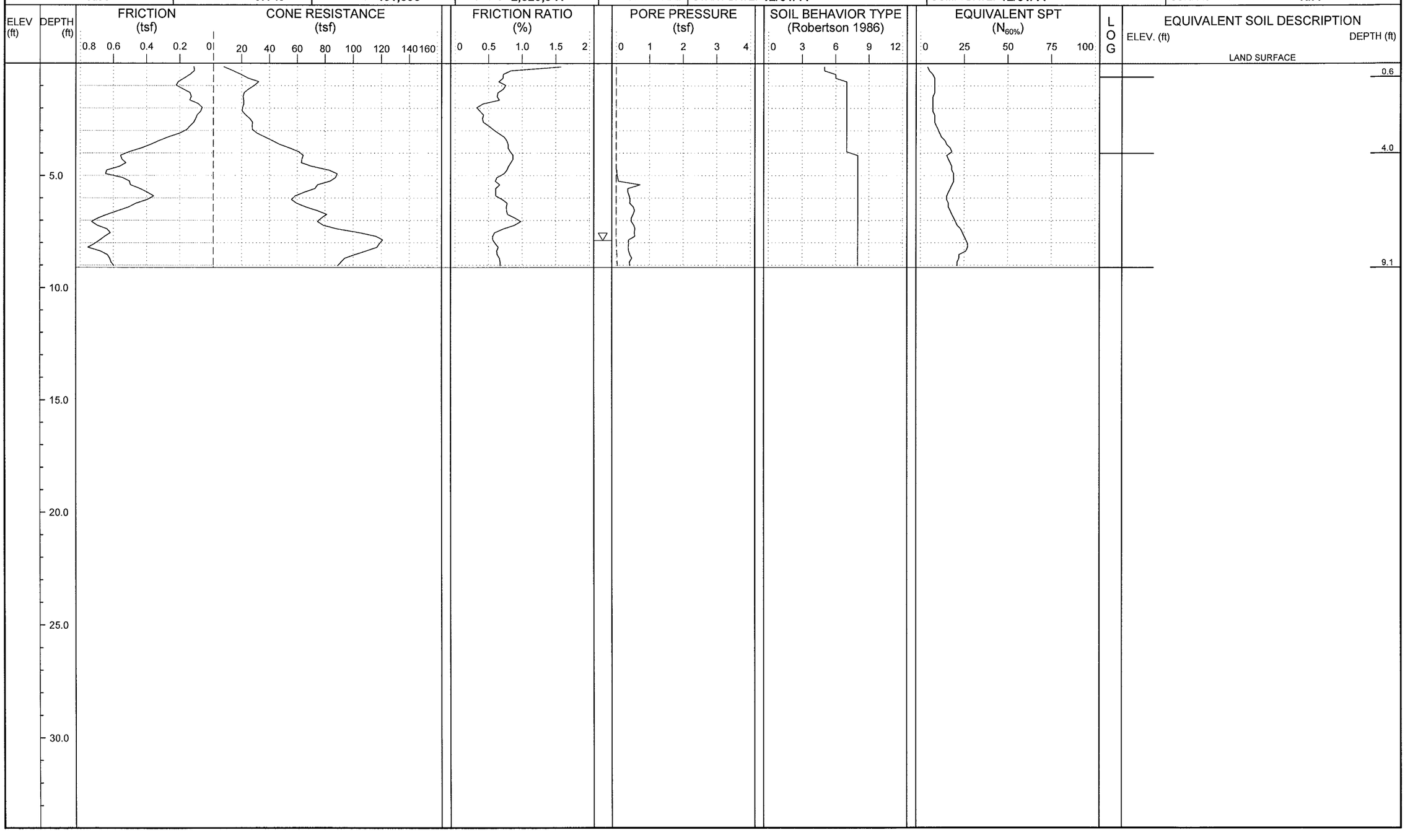


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	14
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-34200**	STATION: **342+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **461,395**	EASTING: **2,529,941**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

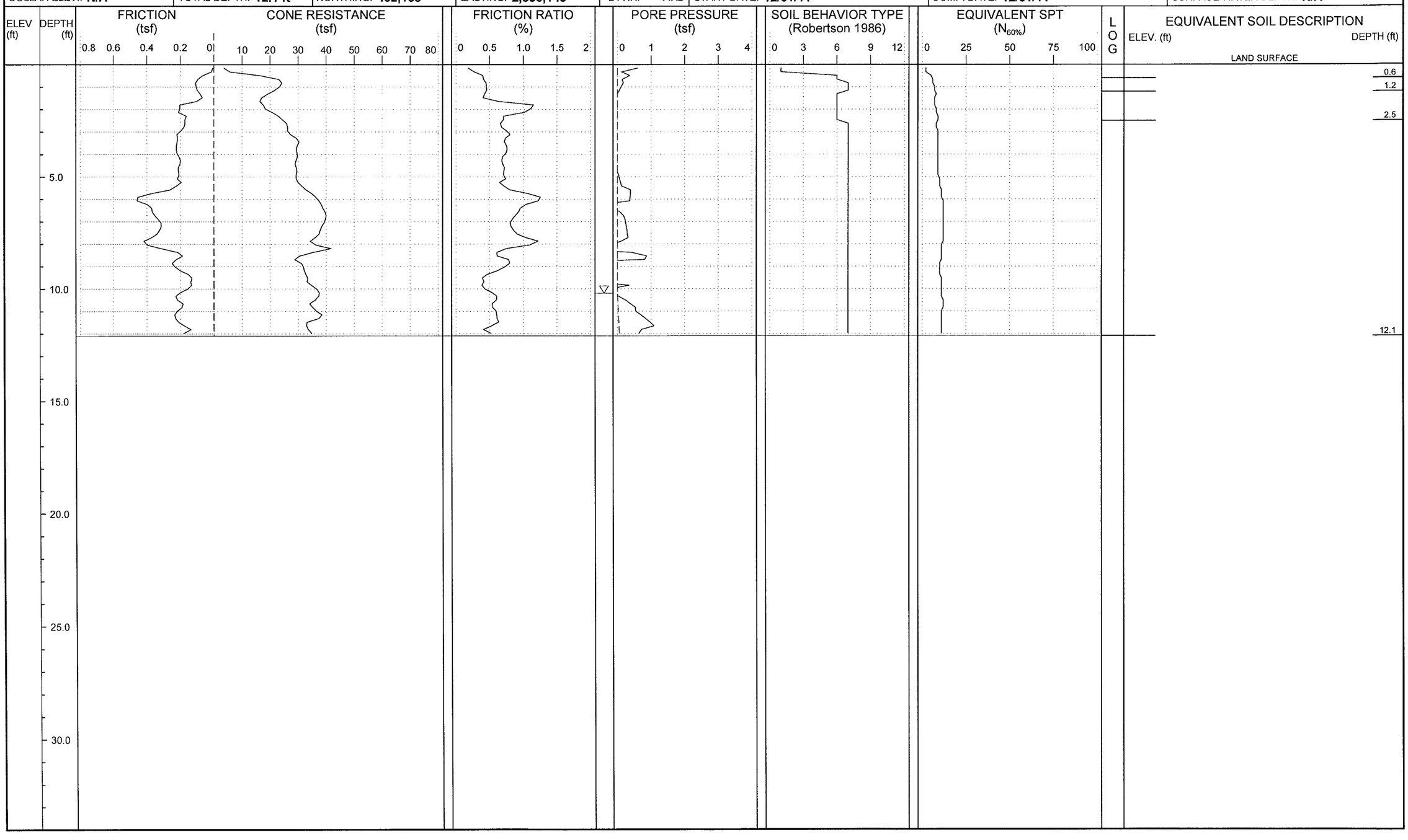


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	15
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-35000**	STATION: **350+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **12.1 ft**	NORTHING: **462,168**	EASTING: **2,530,145**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

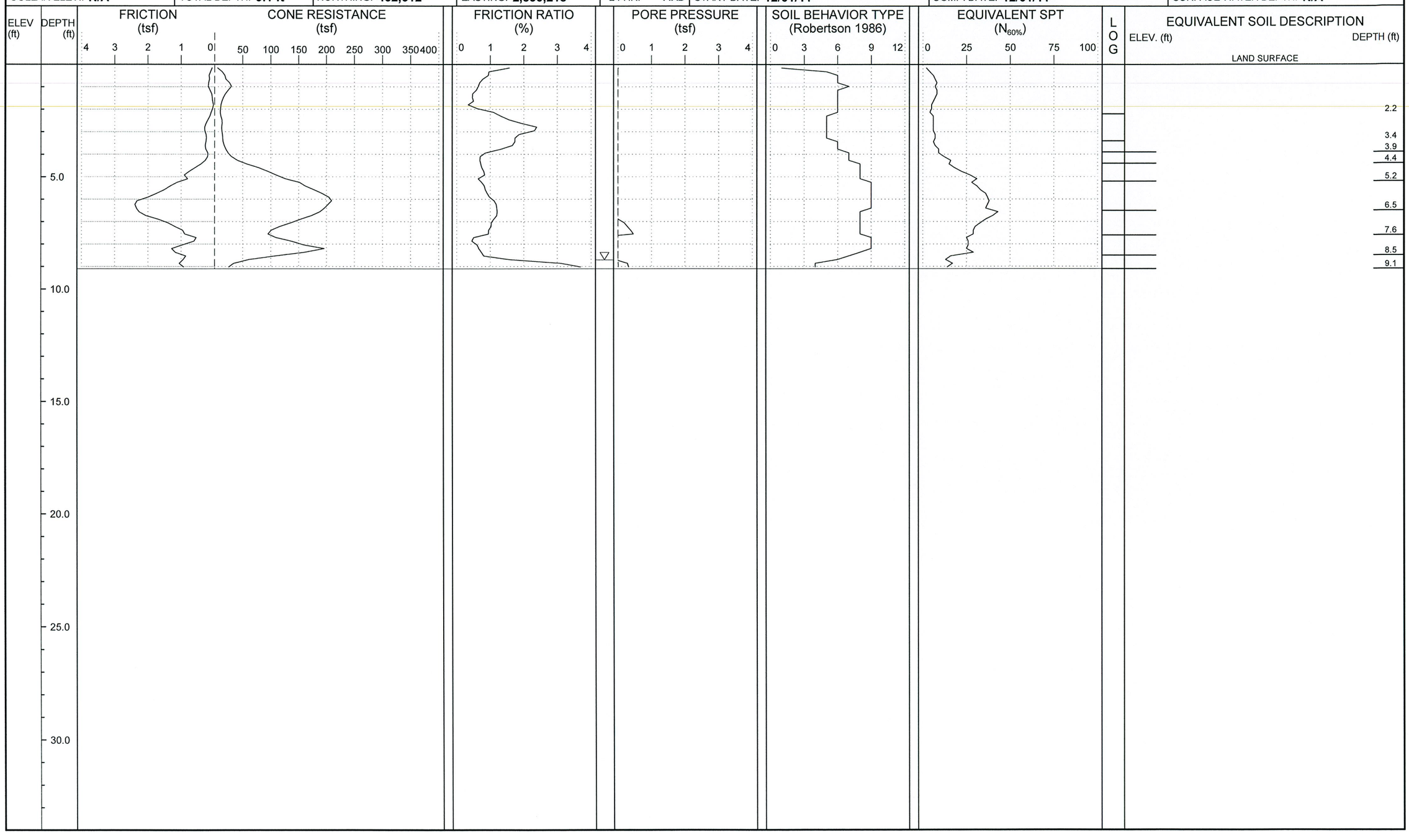


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	16
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-35450**	STATION: **354+50**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.7**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **462,612**	EASTING: **2,530,218**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

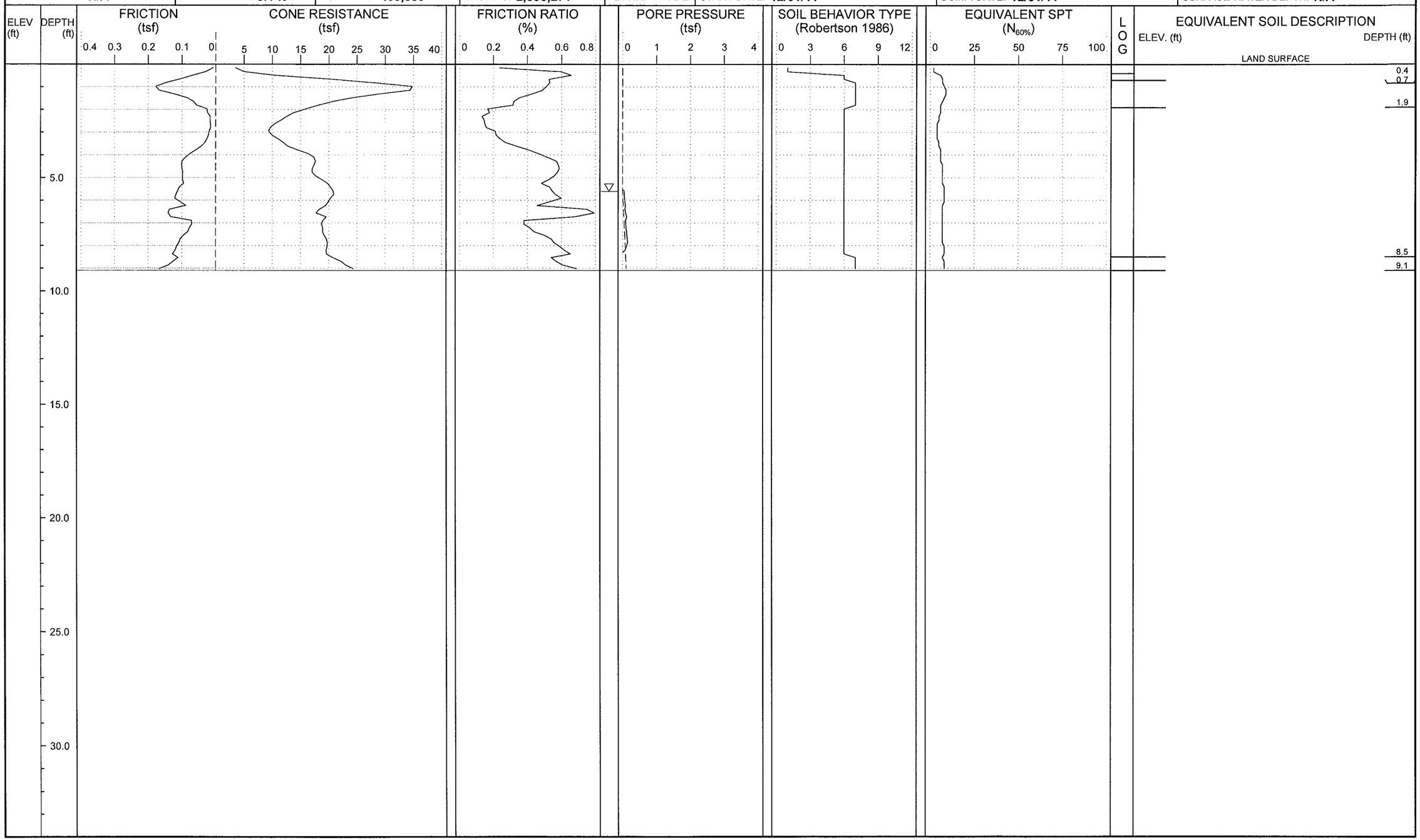


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	17
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-35900**	STATION: **359+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **5.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,059**	EASTING: **2,530,271**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

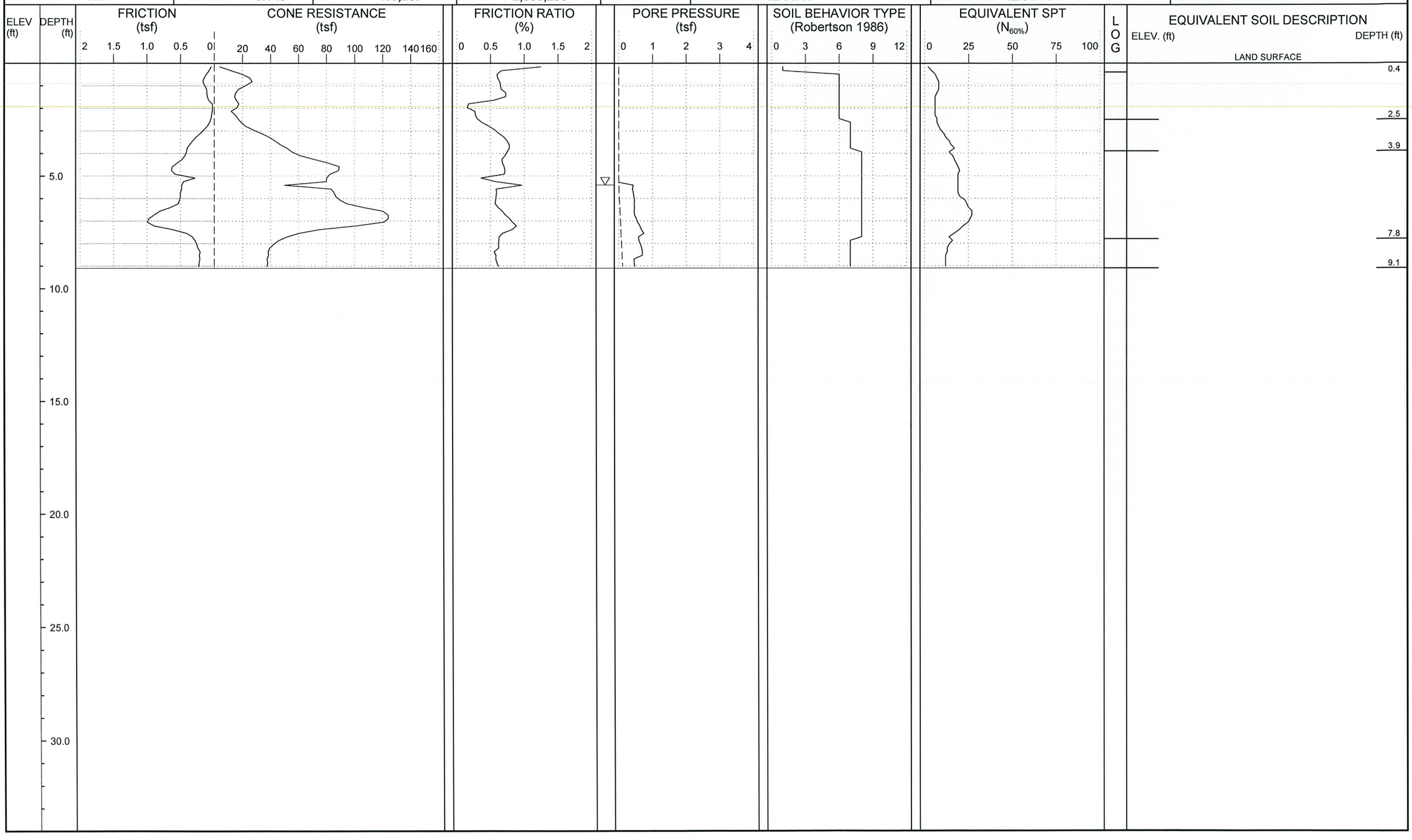


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	18
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-36100**	STATION: **361+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **5.4**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,257**	EASTING: **2,530,295**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

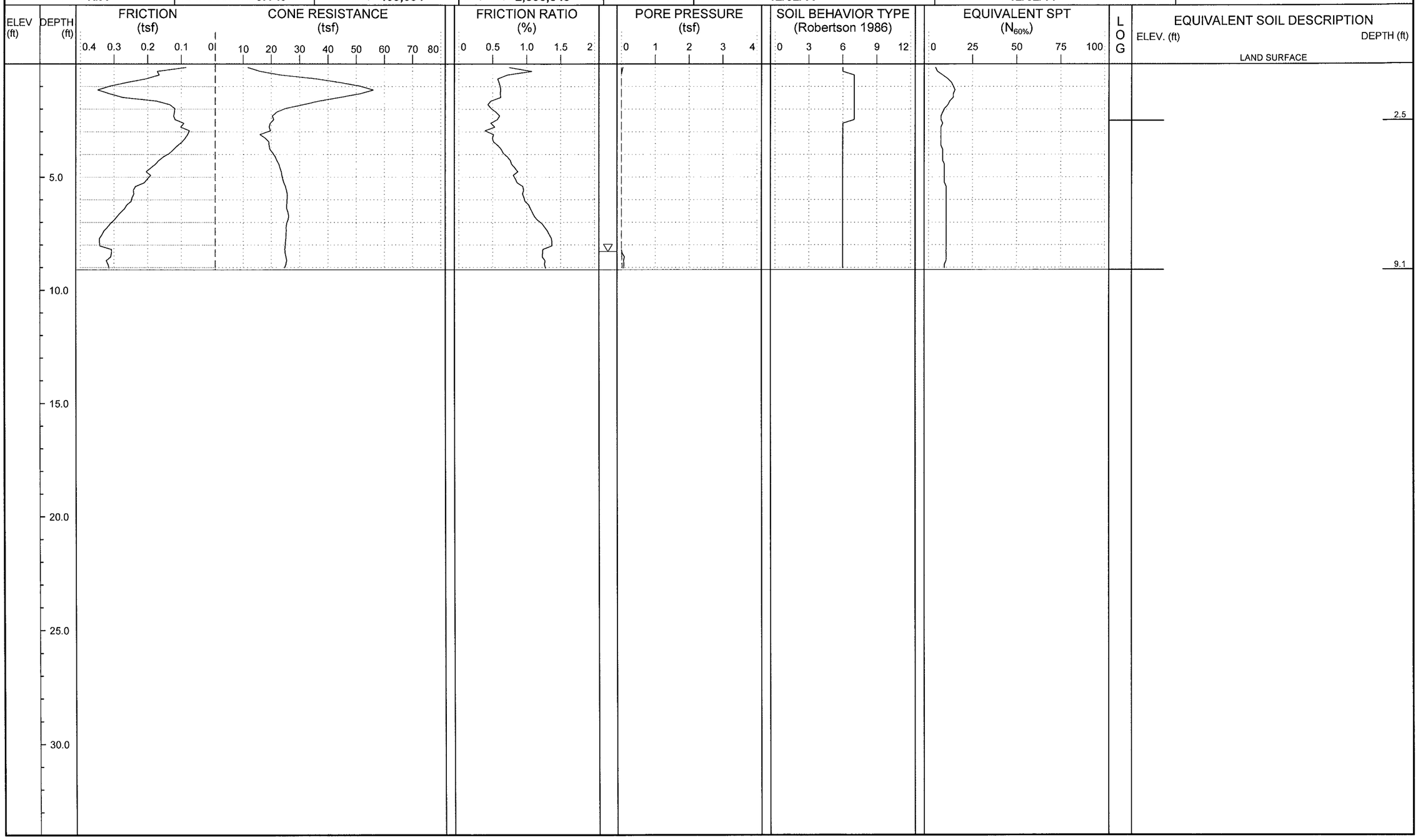


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	19
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-36500**	STATION: **365+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,654**	EASTING: **2,530,343**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

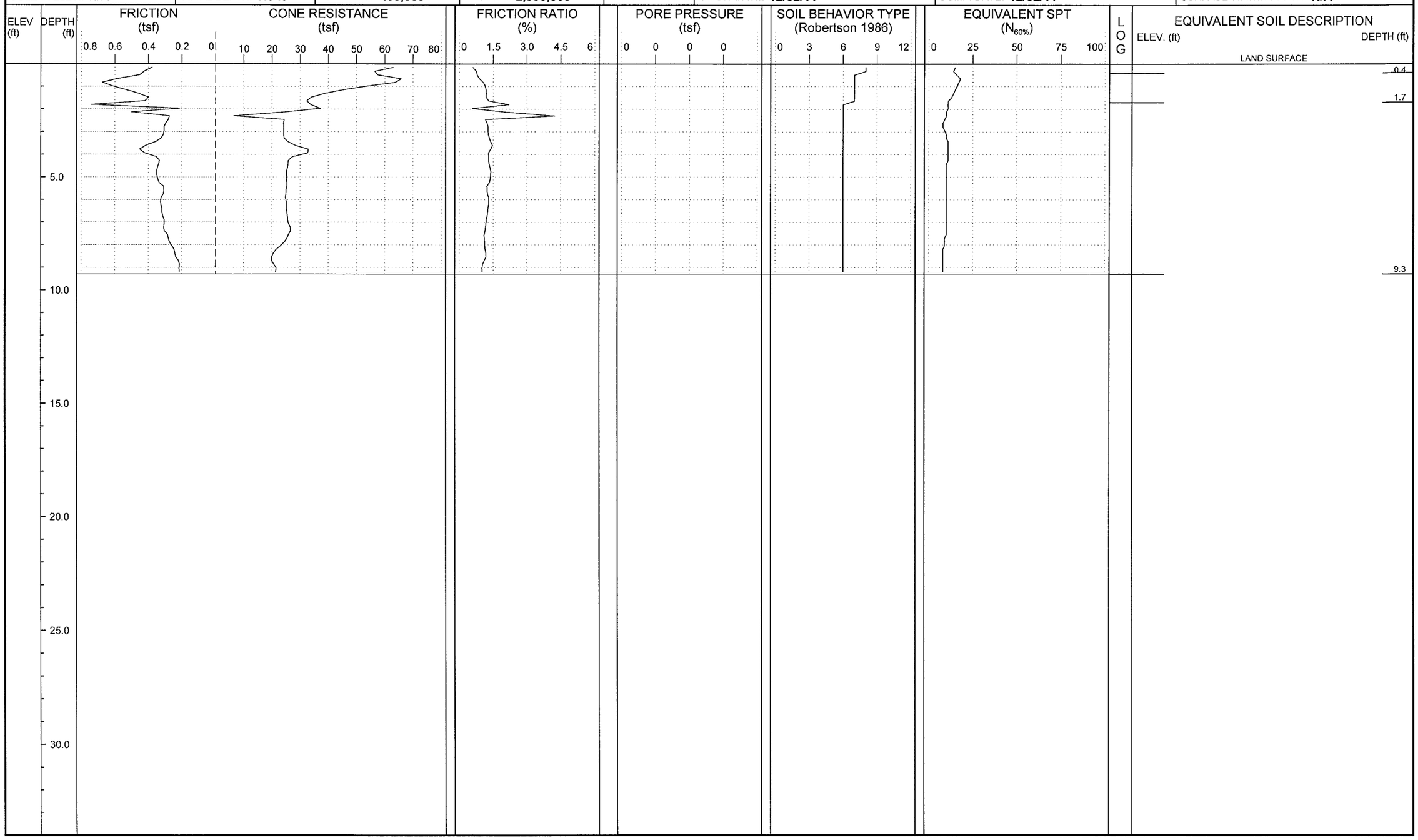


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	20
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-36700**	STATION: **367+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **463,853**	EASTING: **2,530,366**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

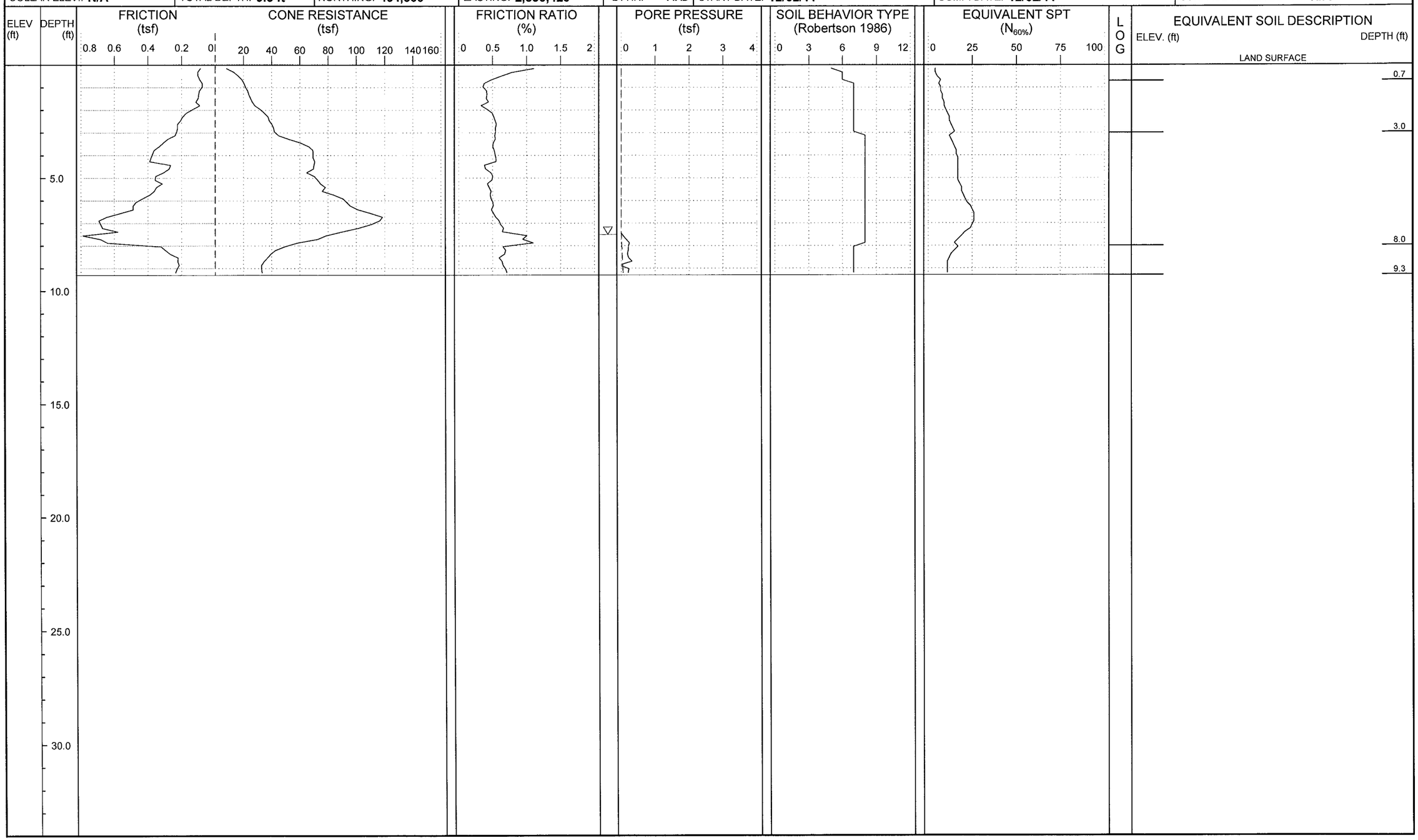


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	21
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-37150**	STATION: **371+50**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **464,300**	EASTING: **2,530,420**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

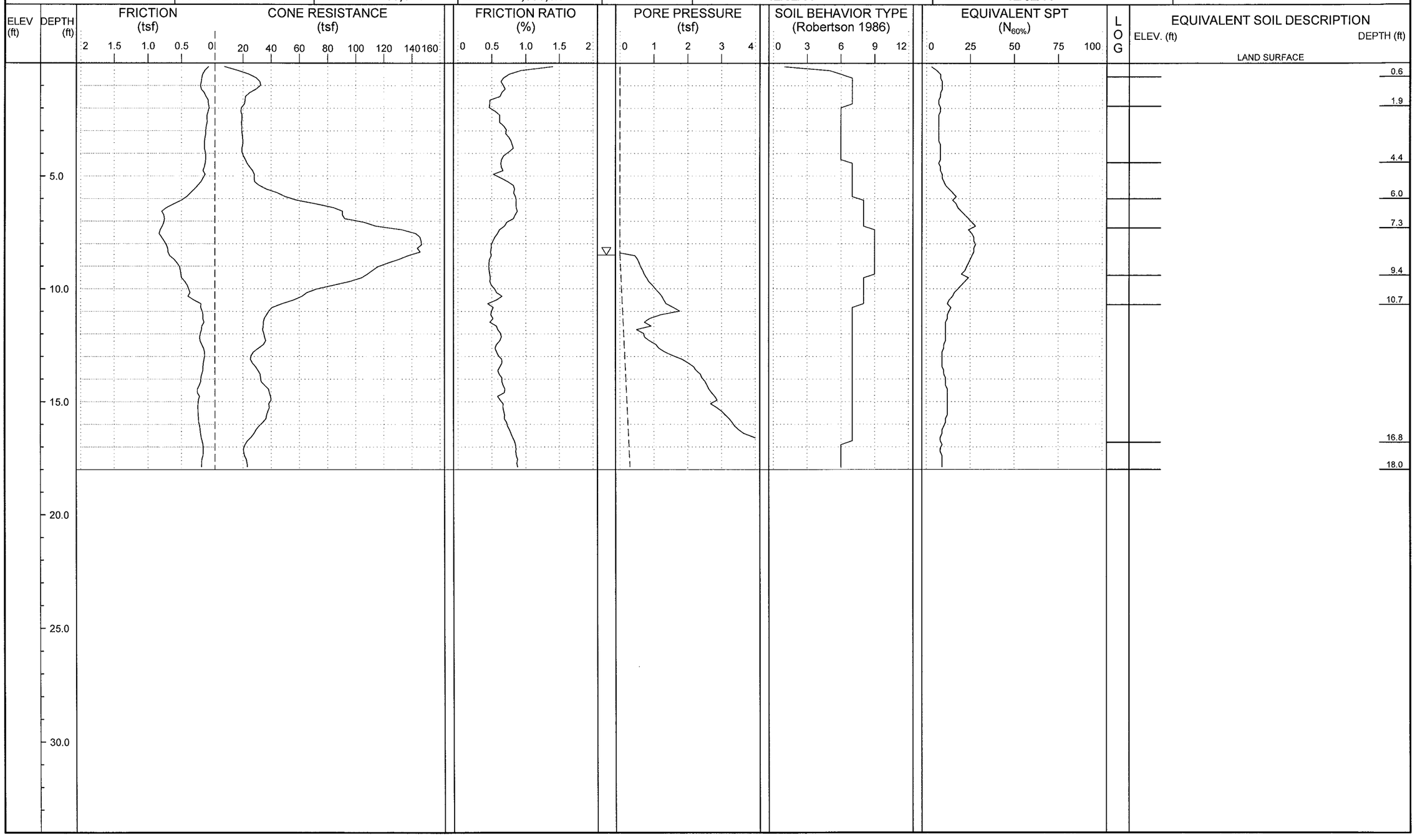


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	22
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-38000**	STATION: **380+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **18.0 ft**	NORTHING: **465,144**	EASTING: **2,530,521**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

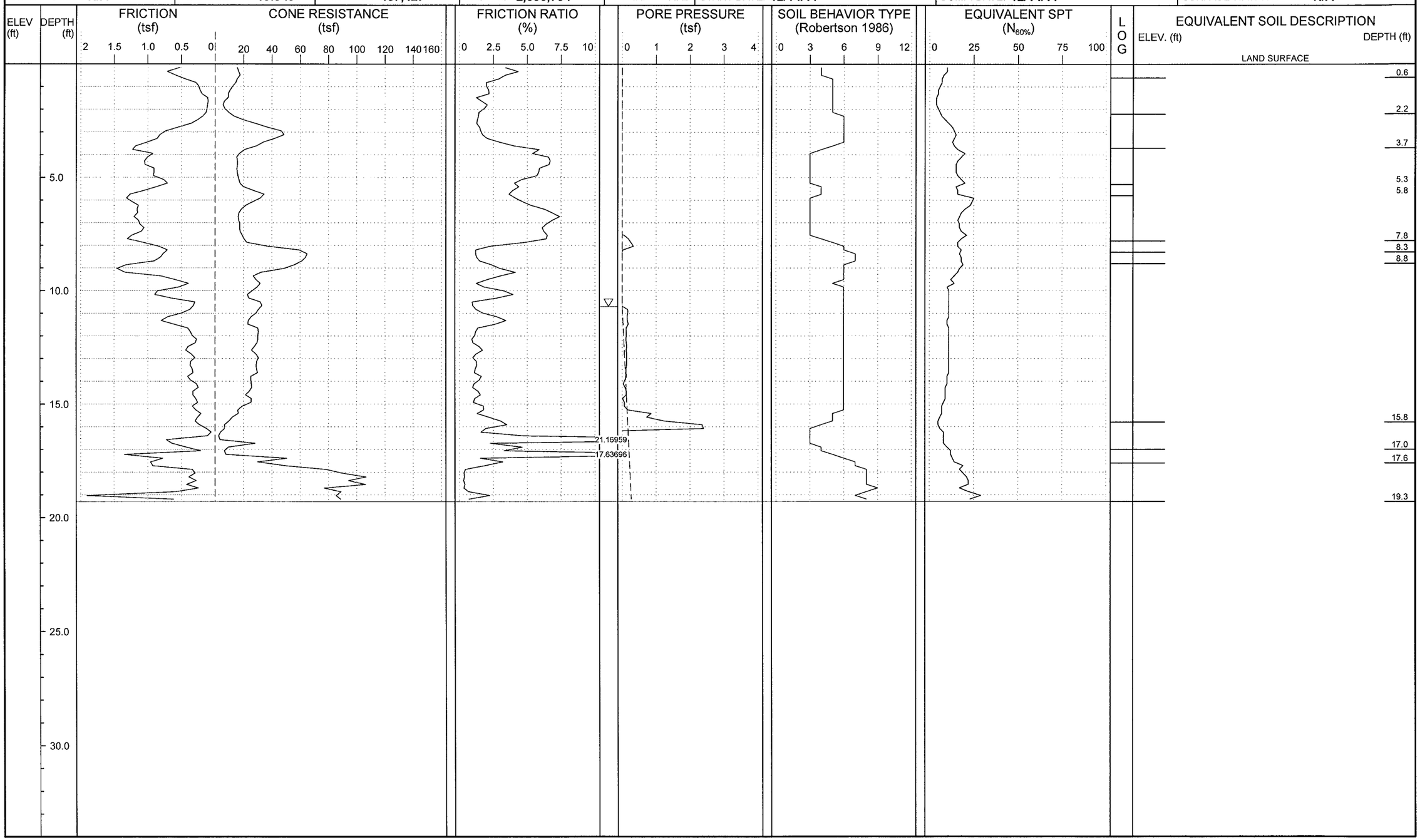


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	23
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-40300**	STATION: **403+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.7**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **19.3 ft**	NORTHING: **467,427**	EASTING: **2,530,794**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

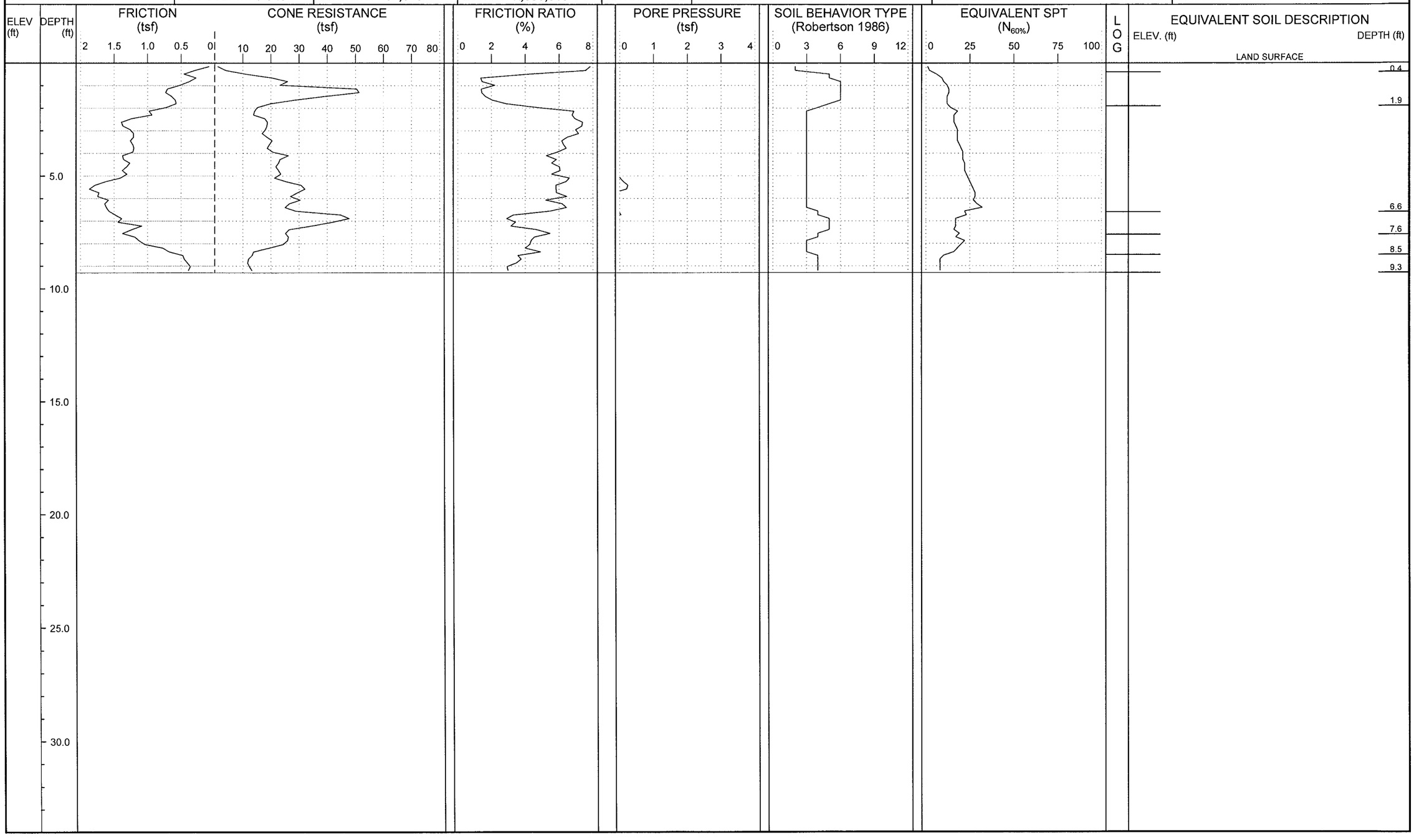
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.6
	2.2
	3.7
	5.3
	5.8
	7.8
	8.3
	8.8
	15.8
	17.0
	17.6
	19.3

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	24
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-40500**	STATION: **405+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **467,626**	EASTING: **2,530,818**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

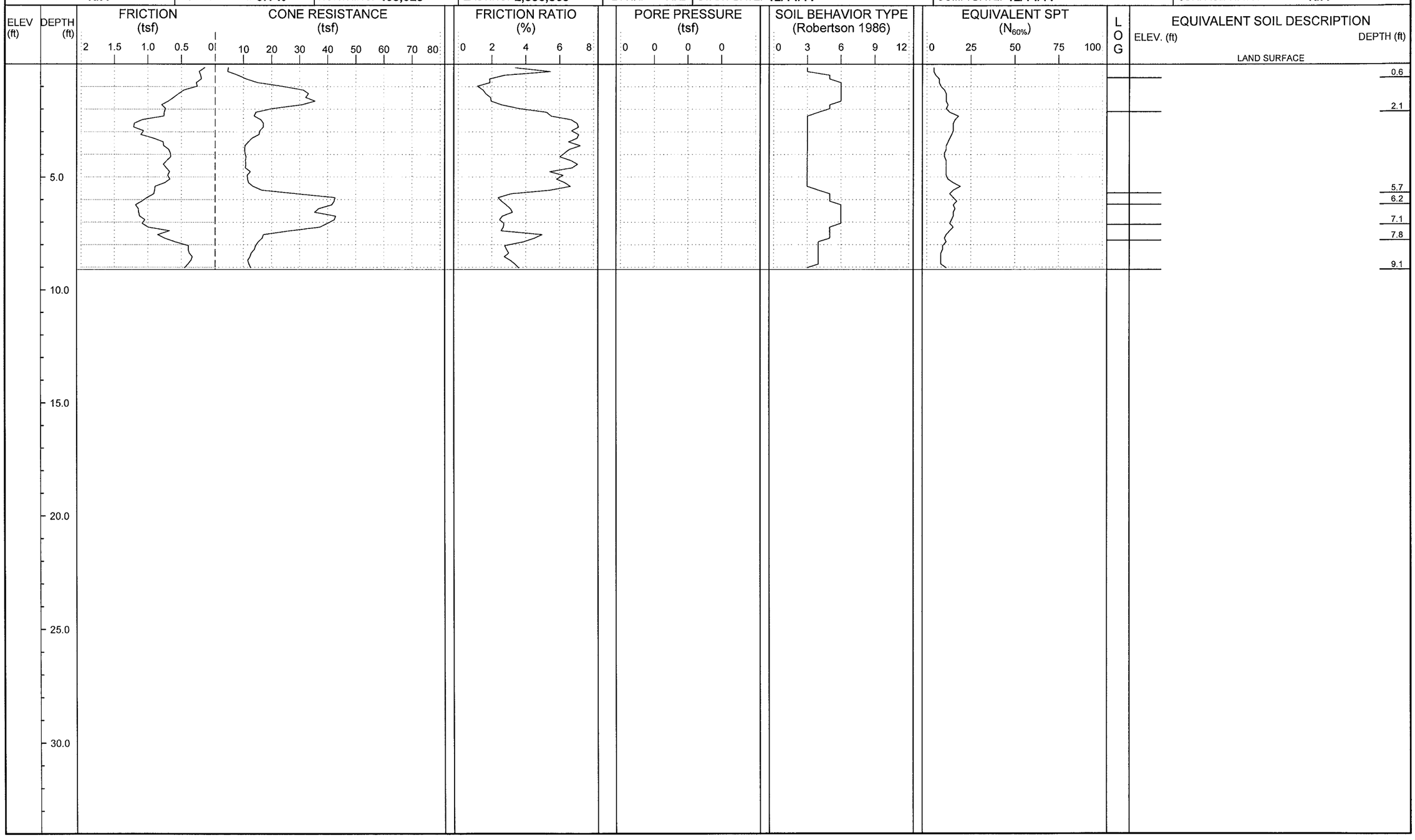


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	25
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-40900**	STATION: **409+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **468,023**	EASTING: **2,530,865**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

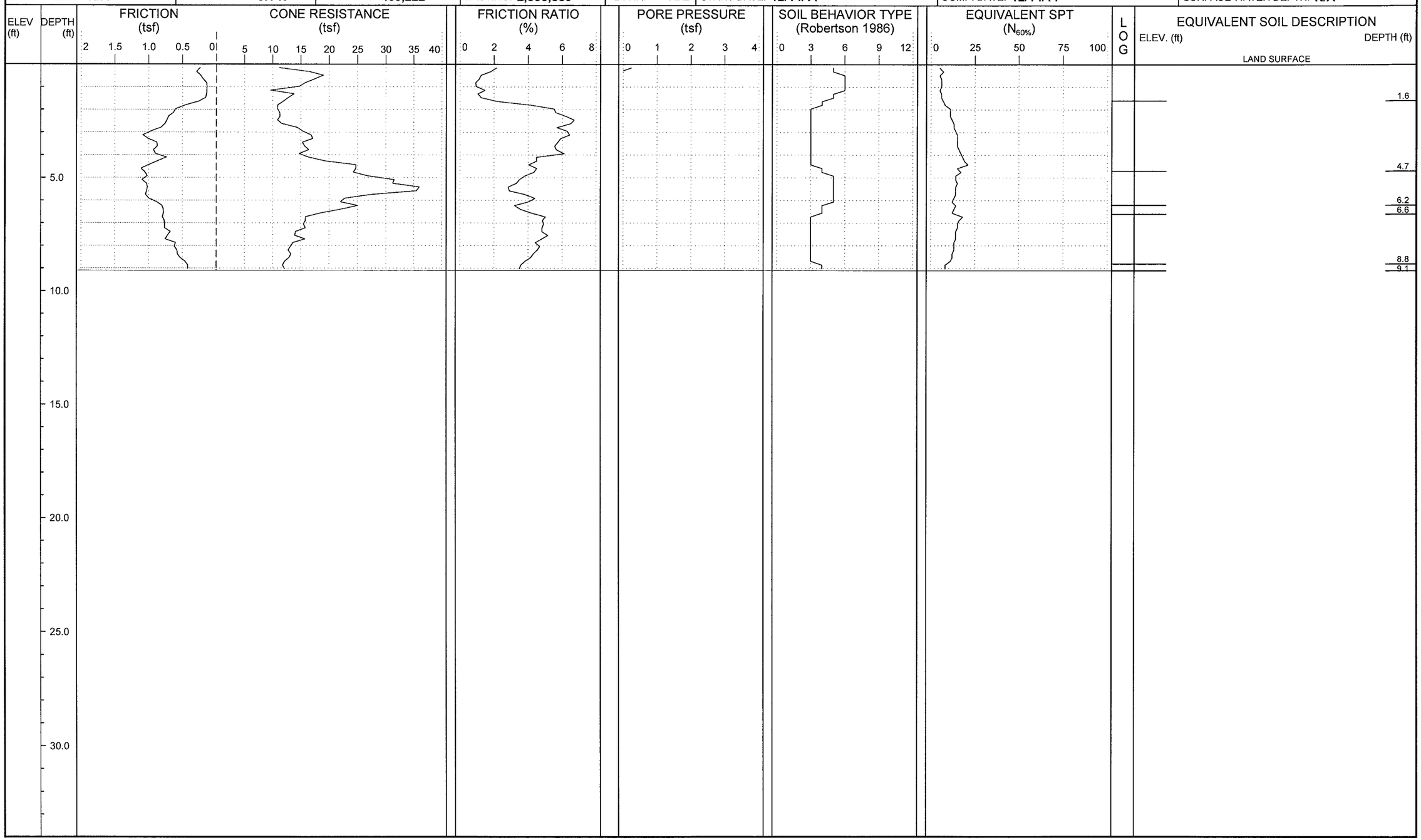


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	26
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-41100**	STATION: **411+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **468,222**	EASTING: **2,530,889**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

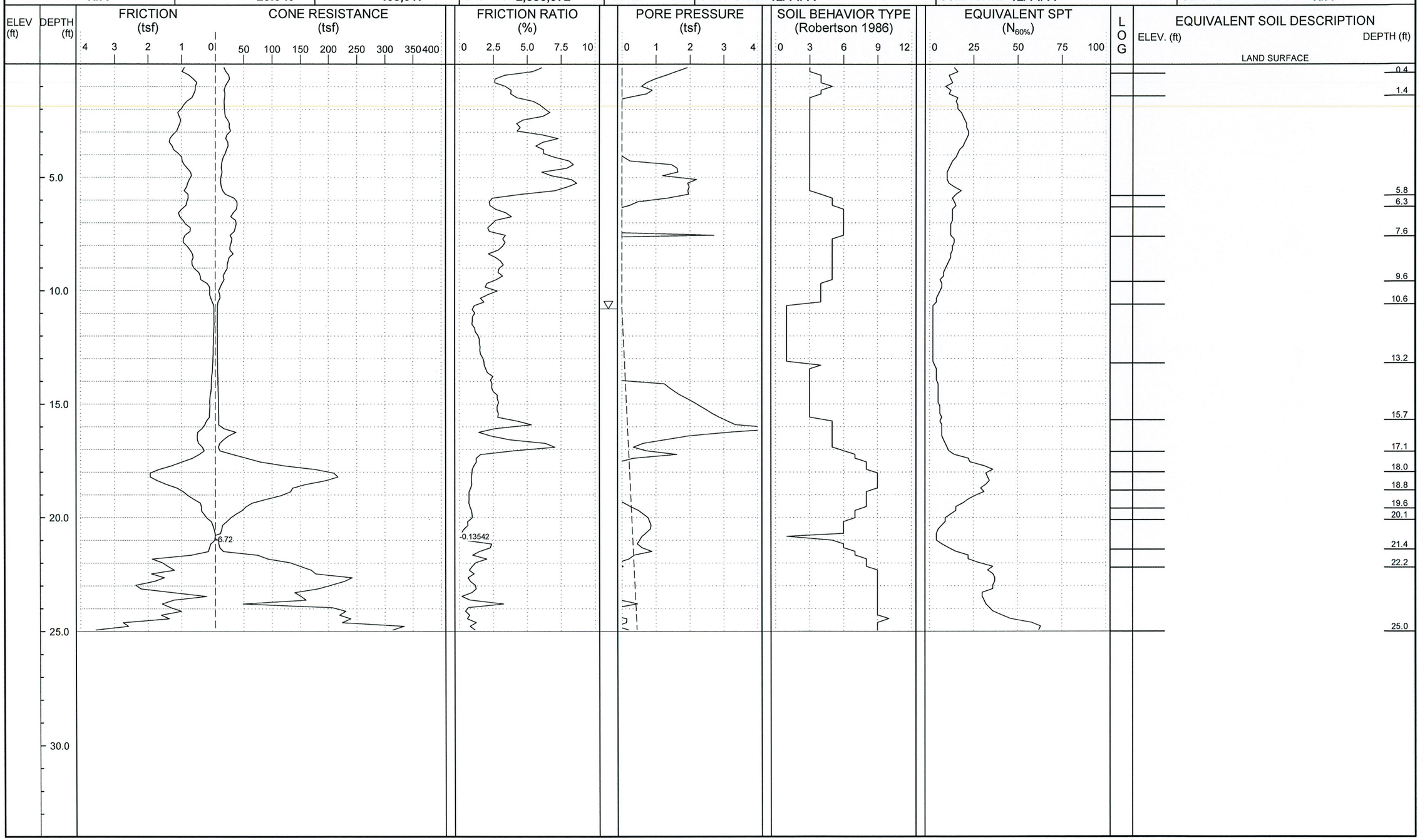


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	27
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-41800**	STATION: **418+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.8**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **25.0 ft**	NORTHING: **468,917**	EASTING: **2,530,972**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

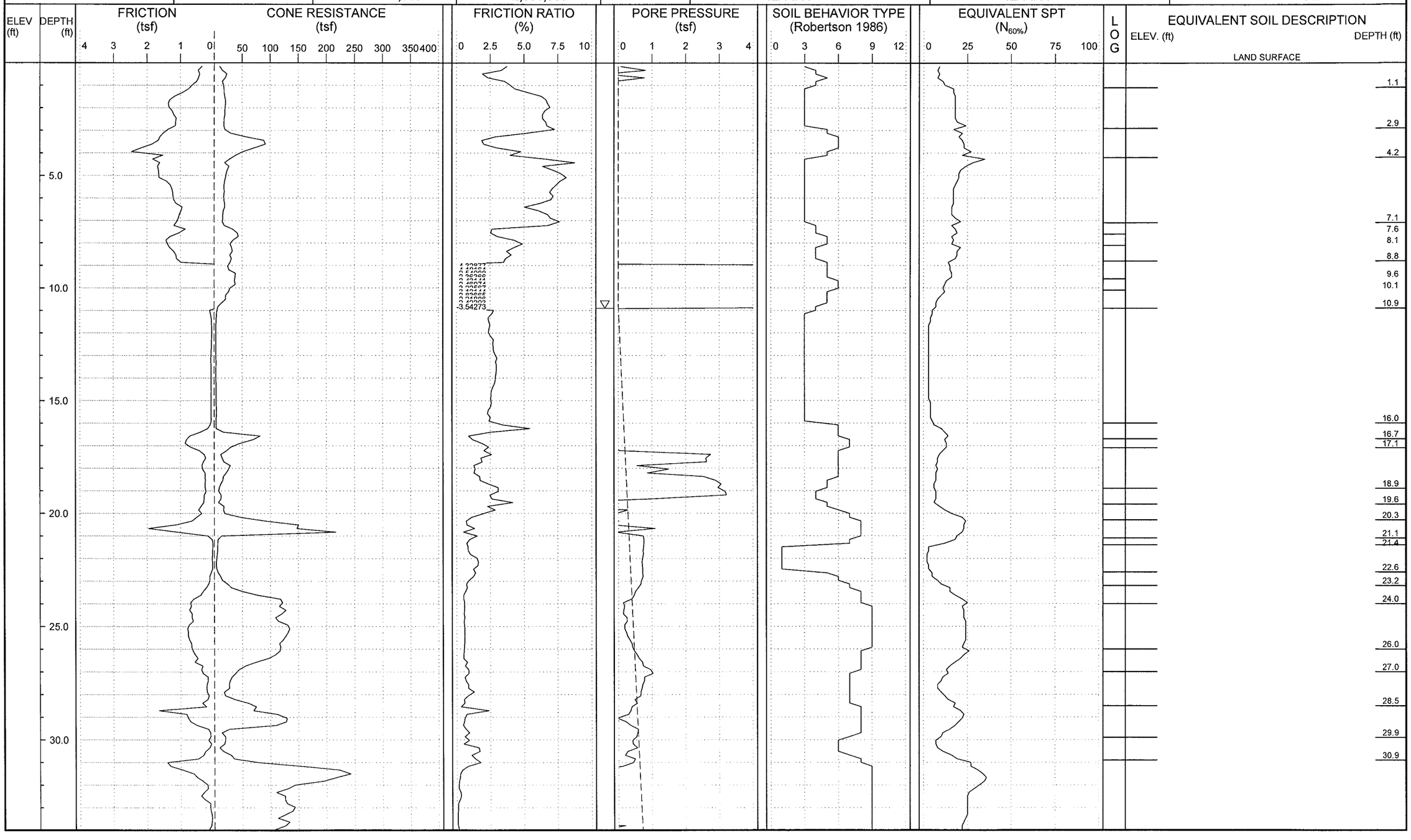


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	28
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-42750**	STATION: **427+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **35.7 ft**	NORTHING: **469,860**	EASTING: **2,531,085**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

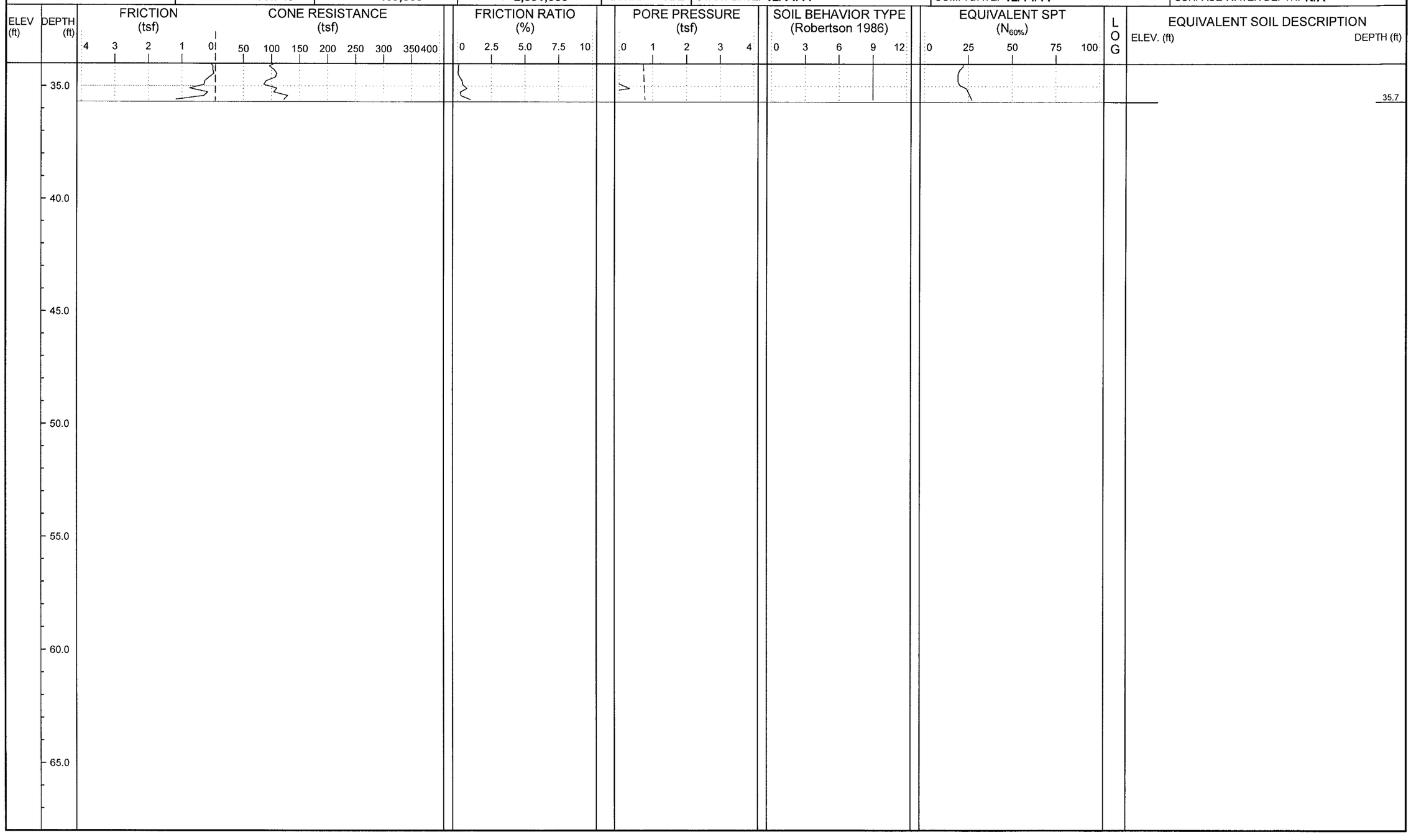


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	29
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-42750**	STATION: **427+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **35.7 ft**	NORTHING: **469,860**	EASTING: **2,531,085**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

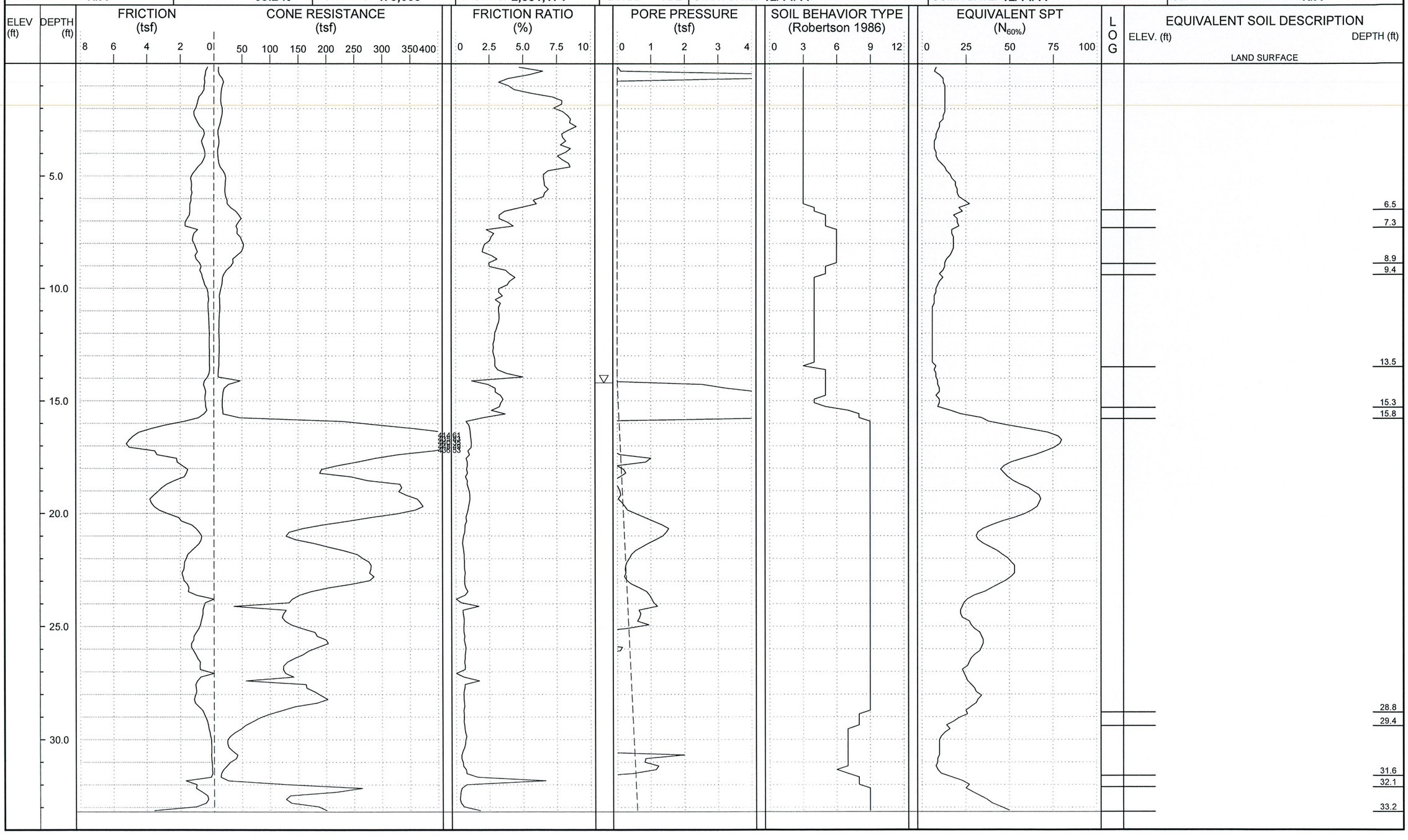


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	30
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-43500**	STATION: **435+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **14.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **33.2 ft**	NORTHING: **470,605**	EASTING: **2,531,174**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

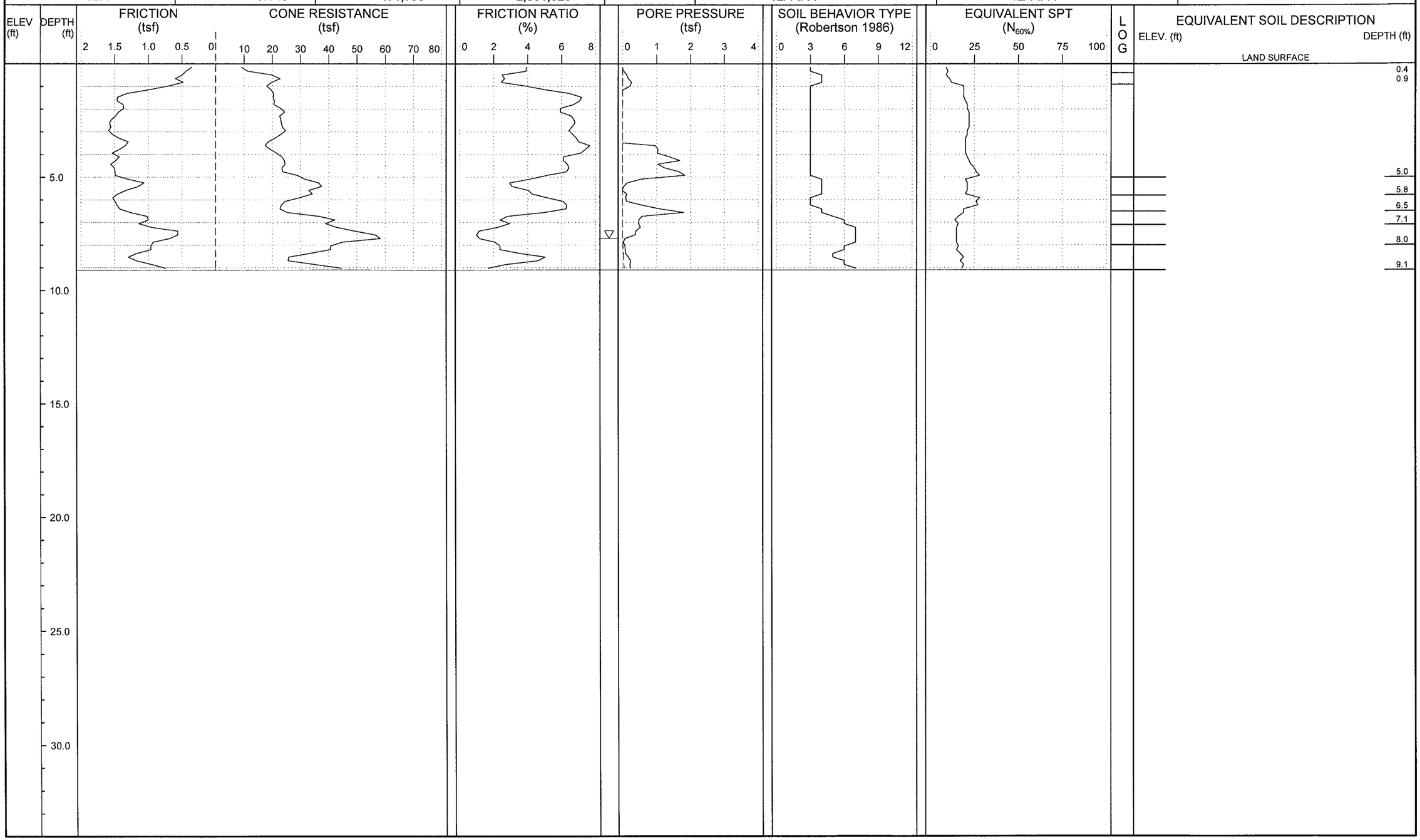


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	31
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-44700**	STATION: **447+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.7**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **471,795**	EASTING: **2,531,326**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

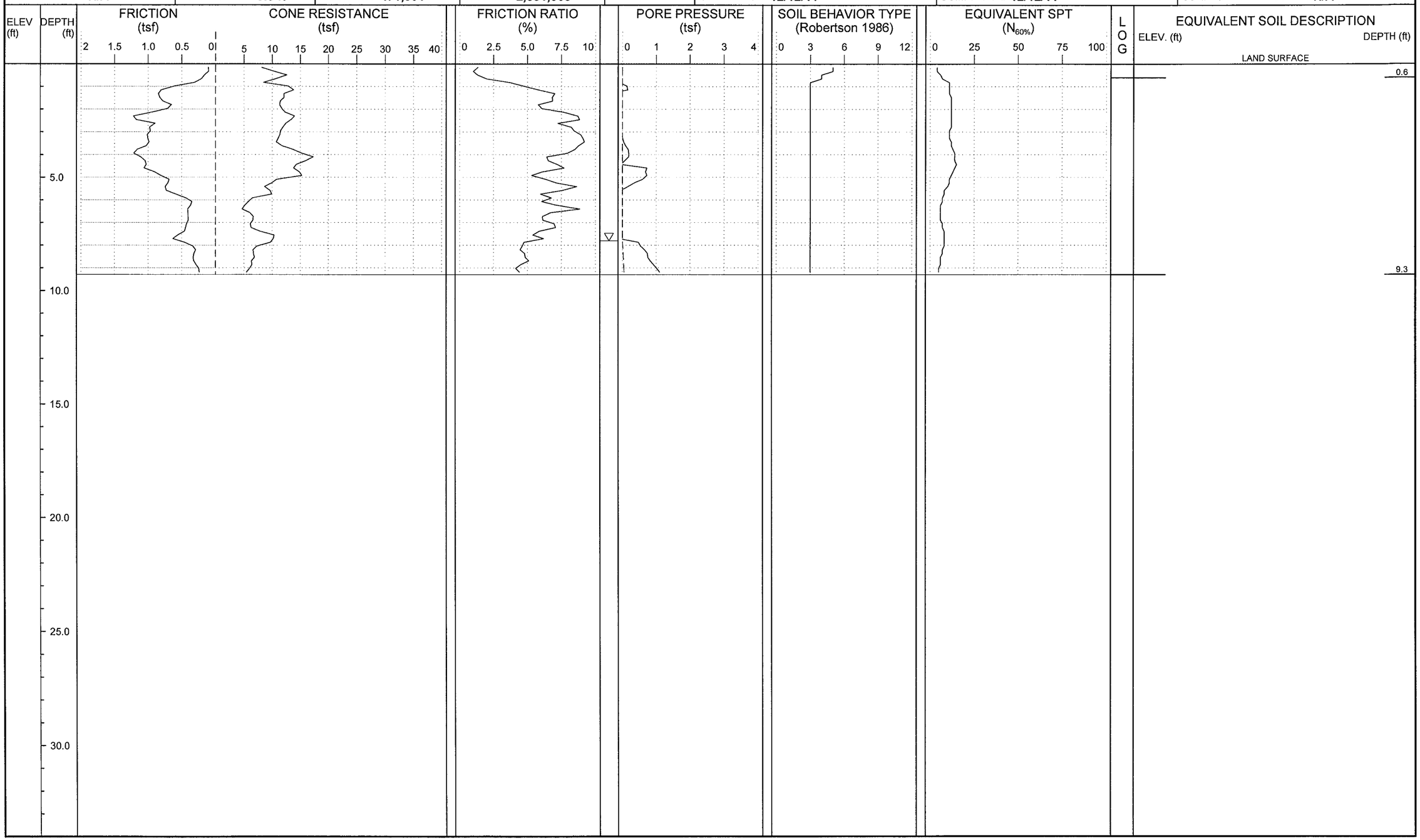


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	32
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-44900**	STATION: **449+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.8**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **471,991**	EASTING: **2,531,363**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

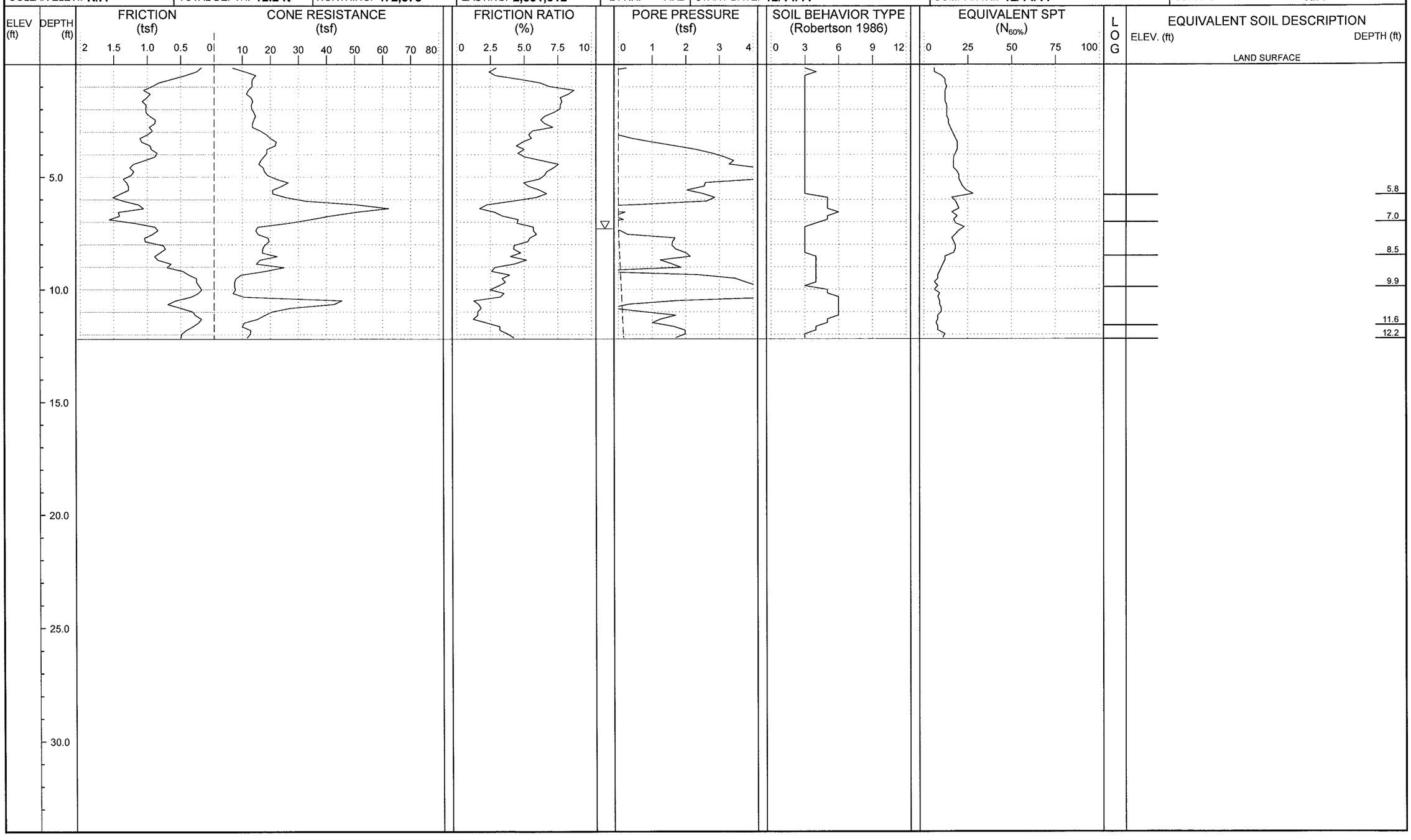


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	33
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-45500**	STATION: **455+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **12.2 ft**	NORTHING: **472,573**	EASTING: **2,531,512**	24 HR. **FIAD**	START DATE: **12/14/11**	COMP. DATE: **12/14/11**	SURFACE WATER DEPTH: **N/A**

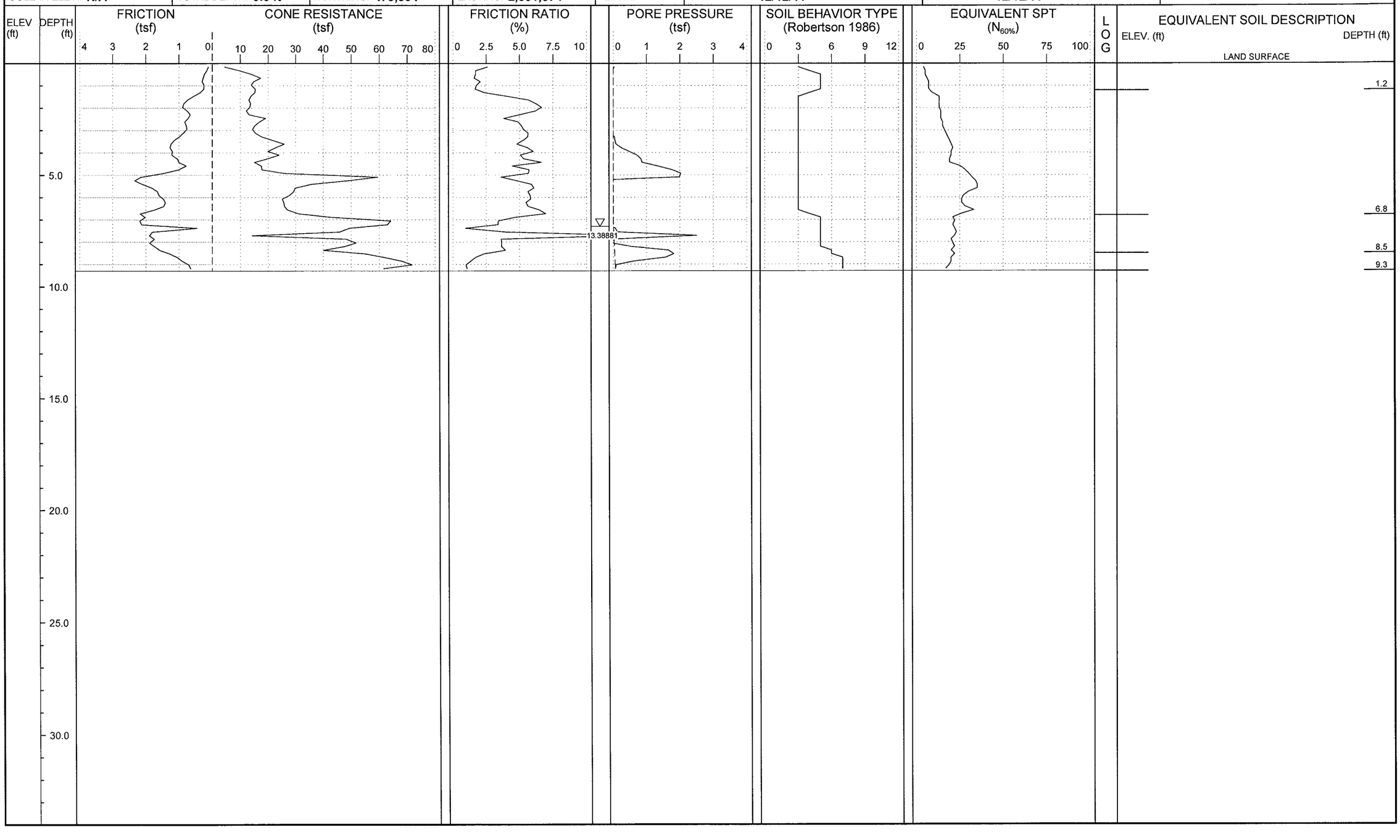


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	34
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-46500**	STATION: **465+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **473,504**	EASTING: **2,531,874**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

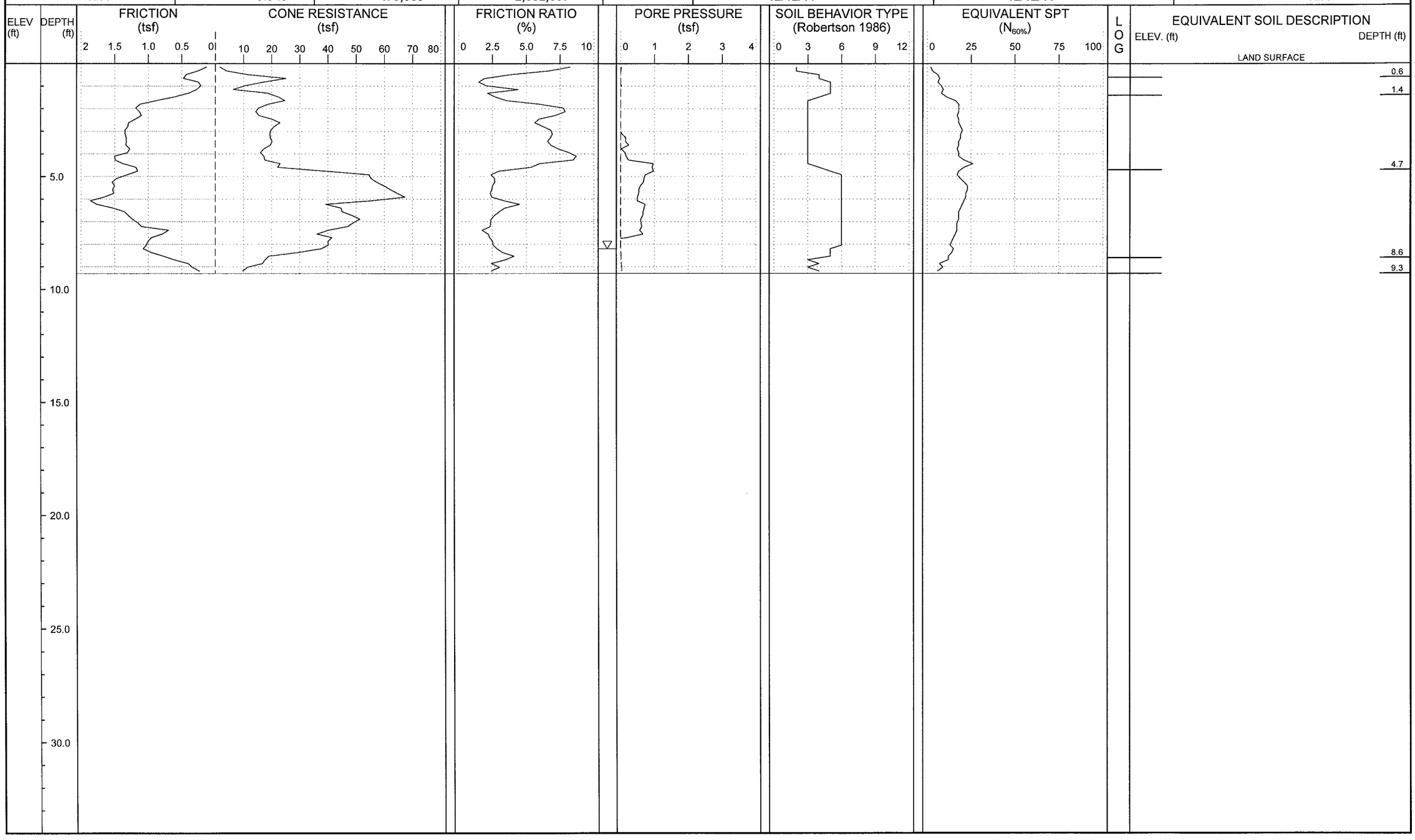


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	35
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-46900**	STATION: **449+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **473,860**	EASTING: **2,532,057**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

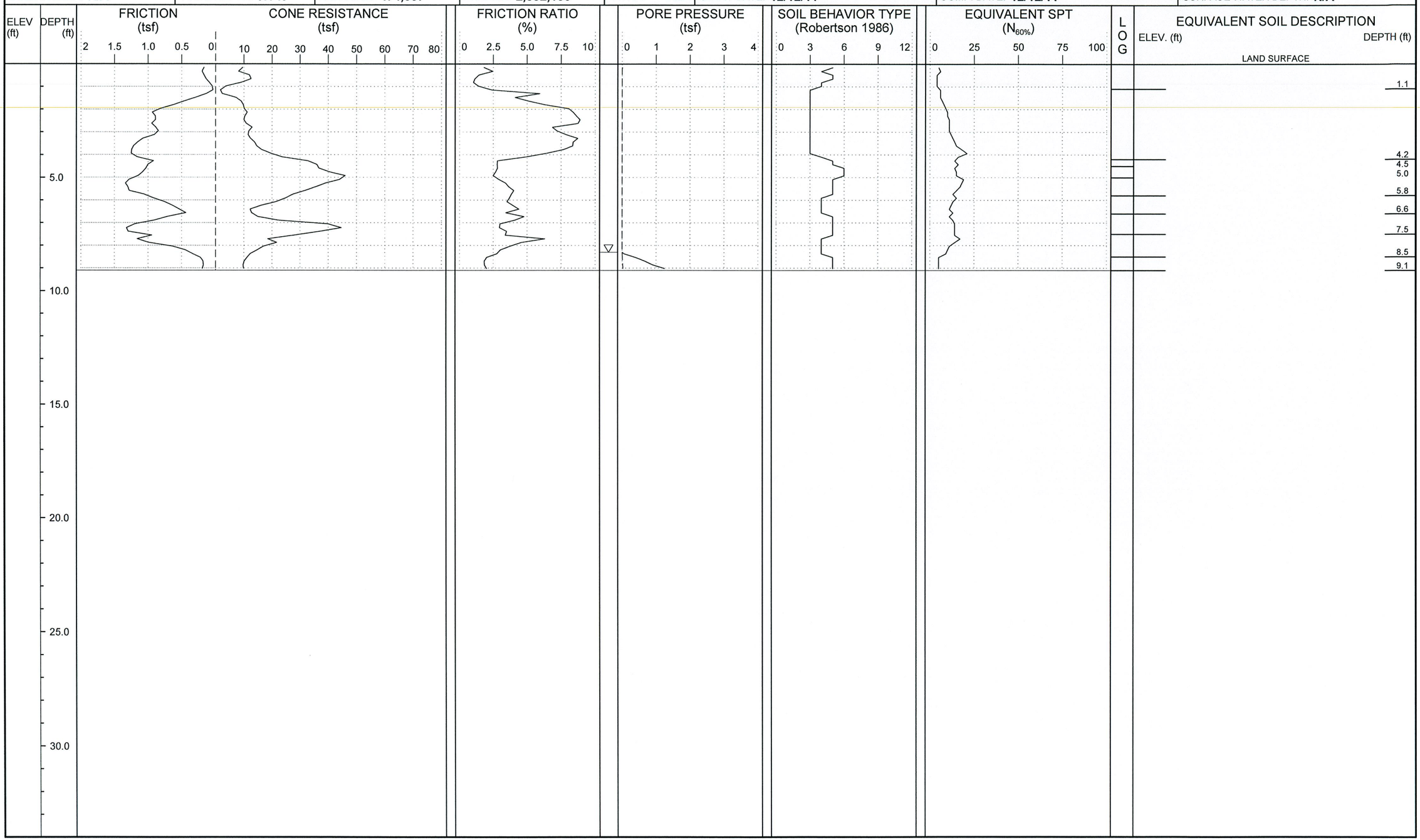


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	36
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-47100**	STATION: **471+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **474,037**	EASTING: **2,532,150**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

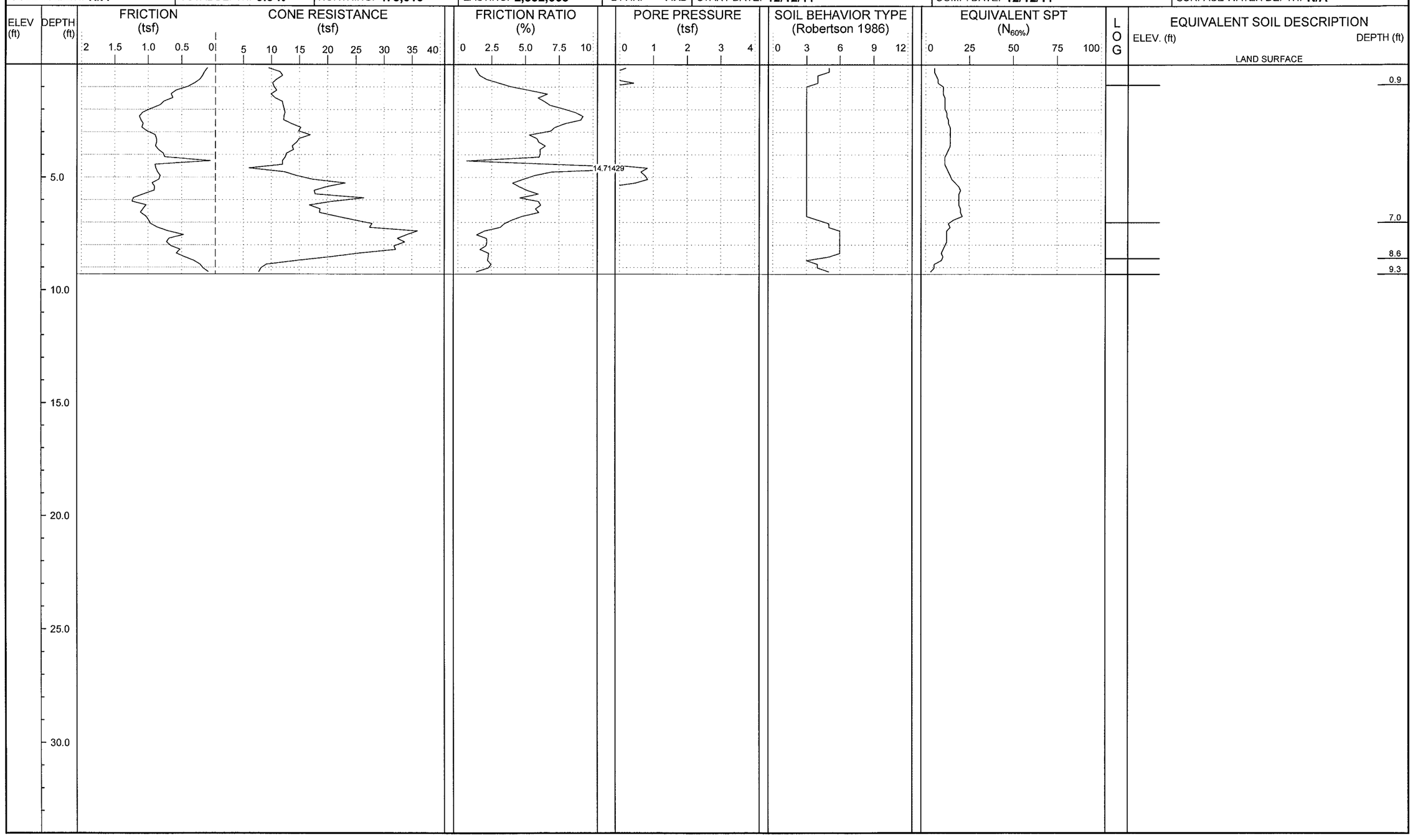


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	37
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-48200**	STATION: **482+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **475,010**	EASTING: **2,532,663**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

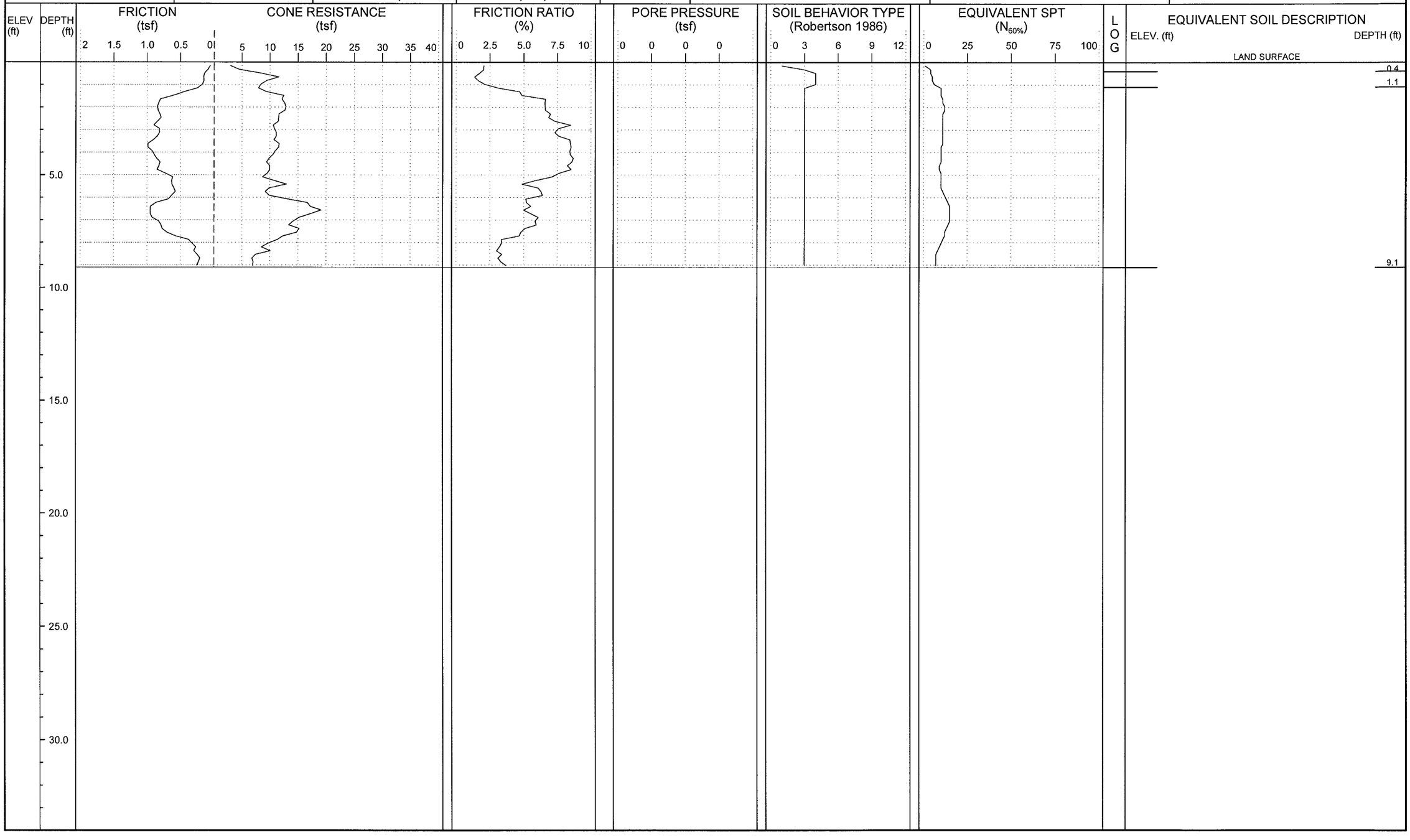


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	38
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-48400**	STATION: **484+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **475,187**	EASTING: **2,532,756**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**



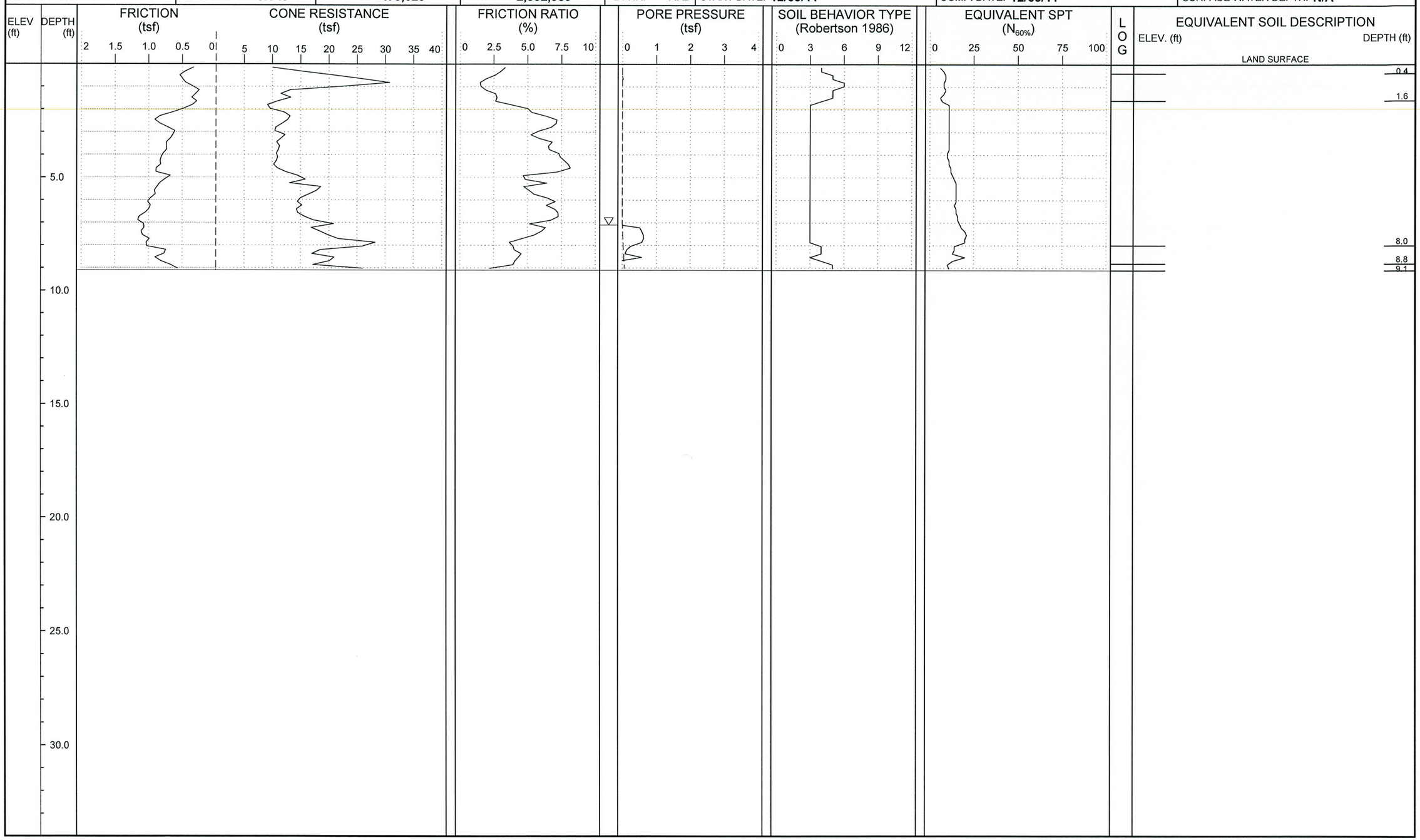
LOG	EQUIVALENT SOIL DESCRIPTION	ELEV. (ft)	DEPTH (ft)
	LAND SURFACE		0.4
			1.1
			9.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	39
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-48900**	STATION: **489+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.1**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **475,629**	EASTING: **2,532,989**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**

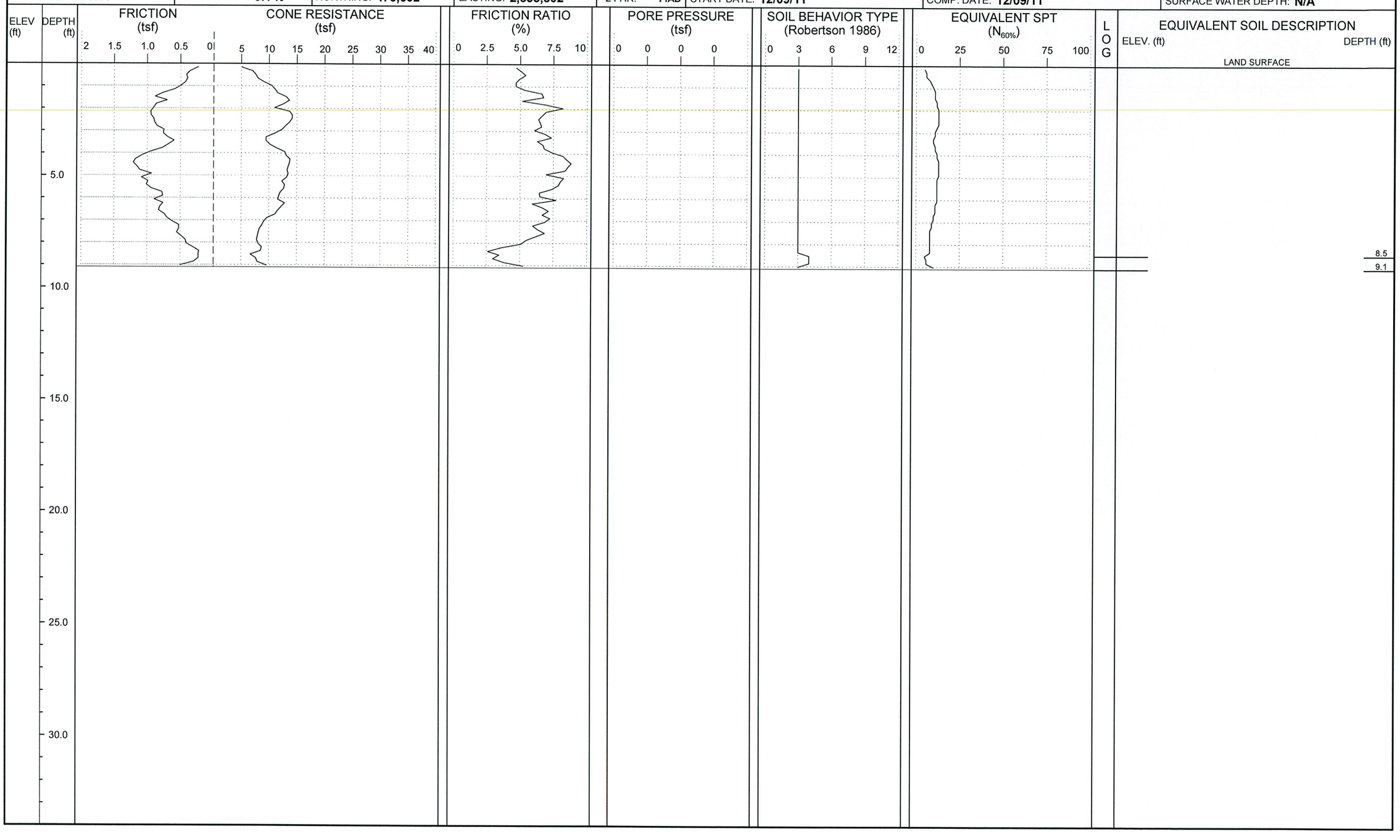


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	40
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-50000**	STATION: **500+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **476,602**	EASTING: **2,533,502**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**

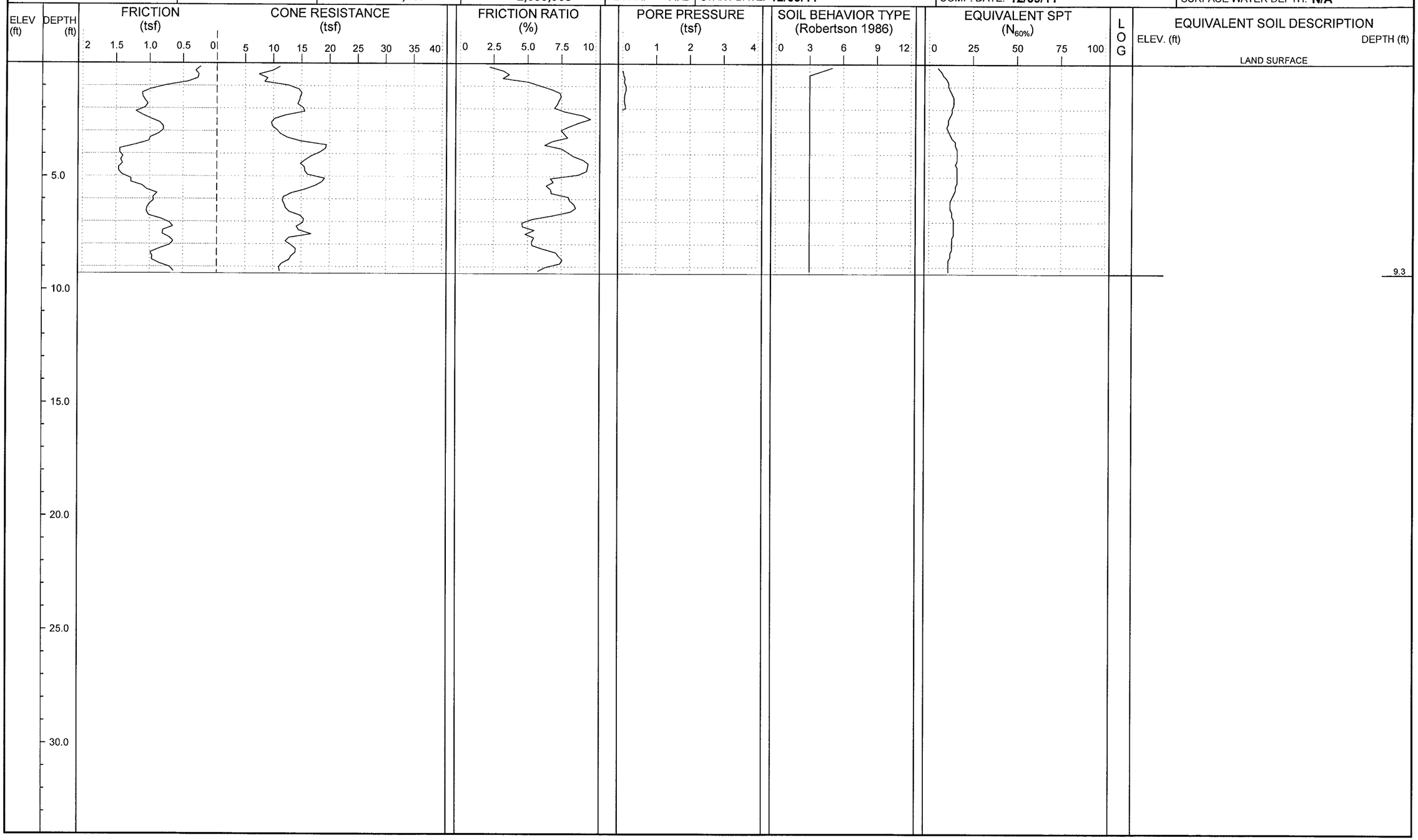


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	41
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-51000**	STATION: **510+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **477,487**	EASTING: **2,533,968**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**

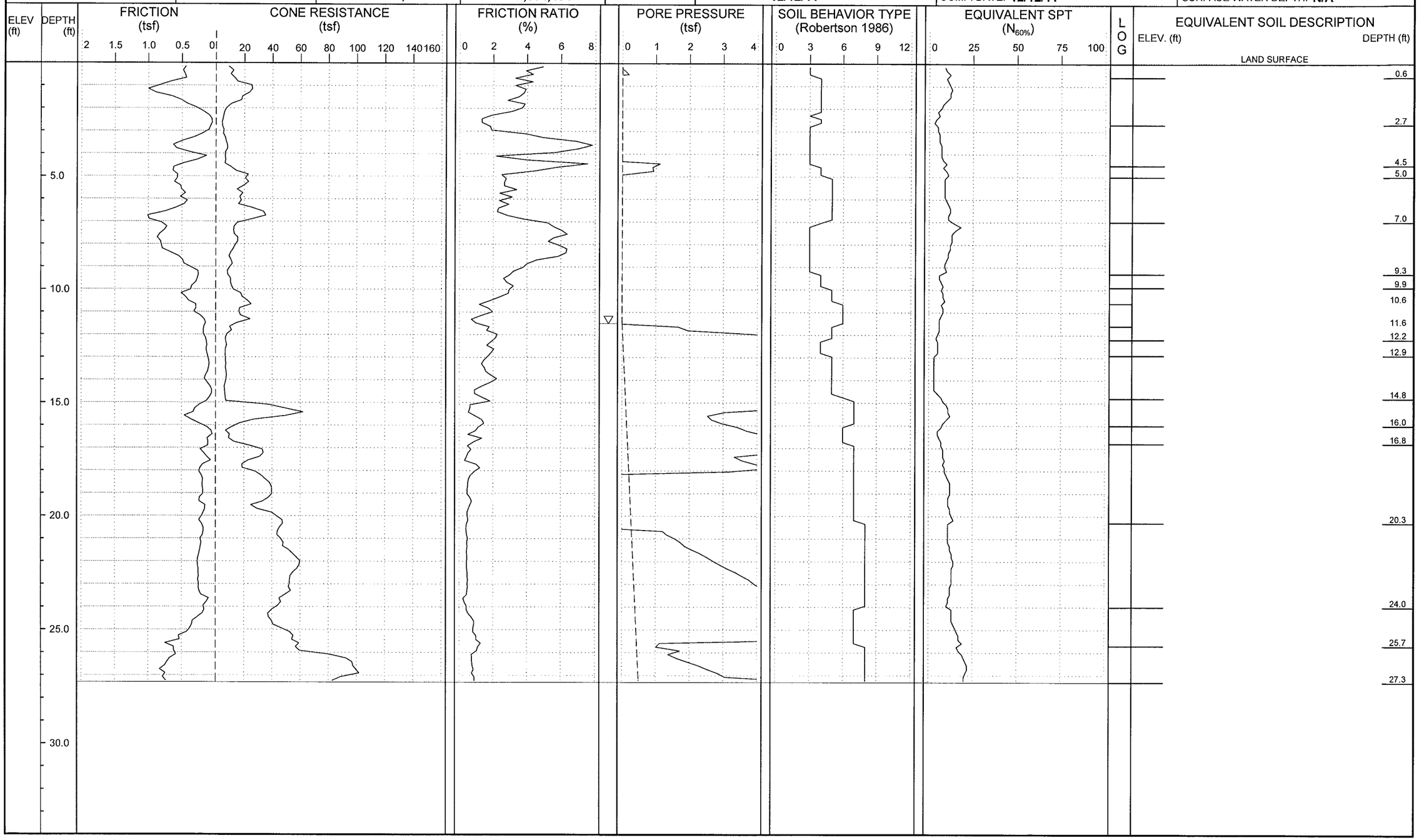


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	42
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-52000**	STATION: **520+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **11.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **27.3 ft**	NORTHING: **478,371**	EASTING: **2,534,434**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

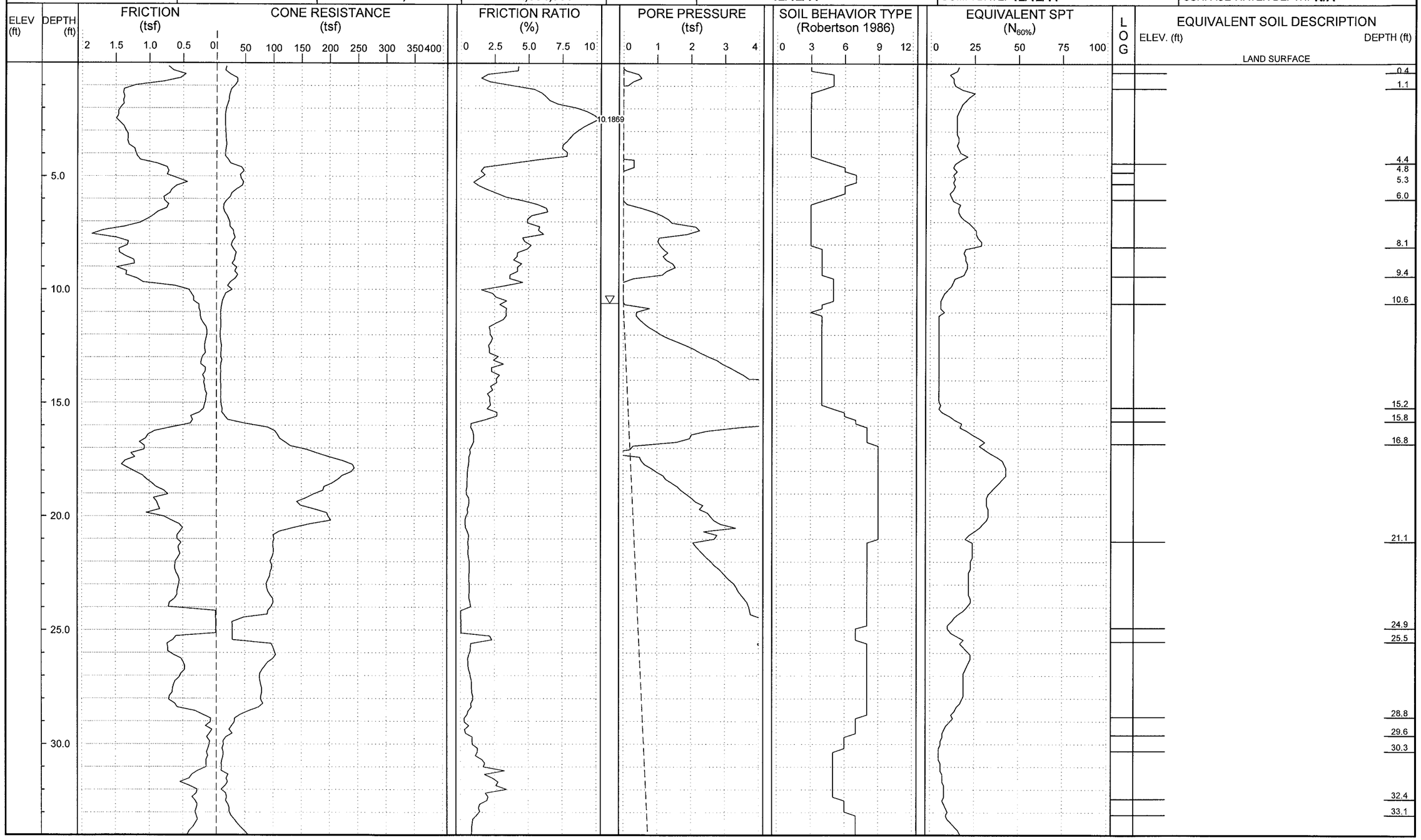
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.6
	2.7
	4.5
	5.0
	7.0
	9.3
	9.9
	10.6
	11.6
	12.2
	12.9
	14.8
	16.0
	16.8
	20.3
	24.0
	25.7
	27.3

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	43
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-53000**	STATION: **530+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **36.2 ft**	NORTHING: **479,256**	EASTING: **2,534,901**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

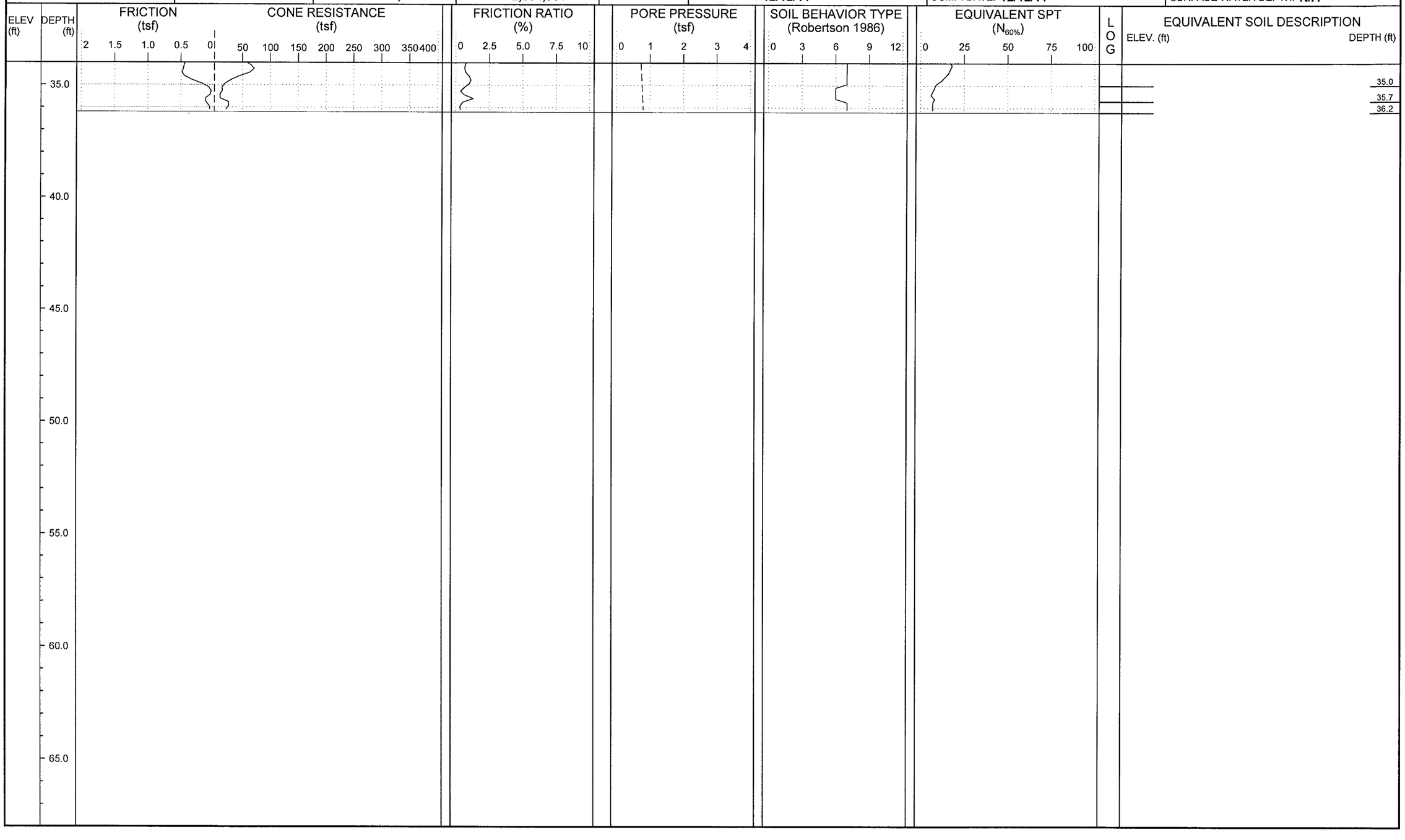


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	44
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-53000**	STATION: **530+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **10.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **36.2 ft**	NORTHING: **479,256**	EASTING: **2,534,901**	24 HR. **FIAD**	START DATE: **12/12/11**	COMP. DATE: **12/12/11**	SURFACE WATER DEPTH: **N/A**

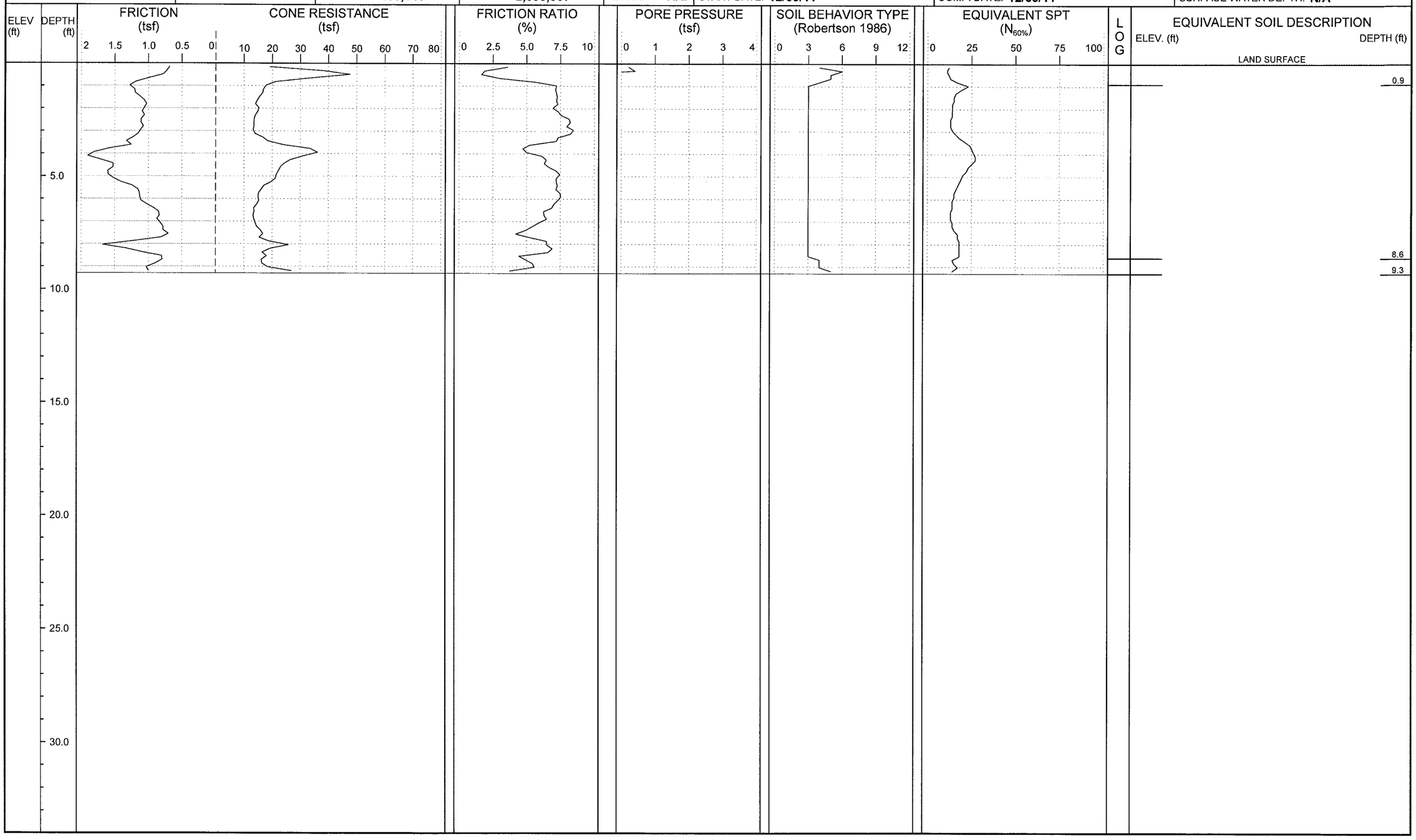


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	45
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-54000**	STATION: **540+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **480,141**	EASTING: **2,535,367**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**

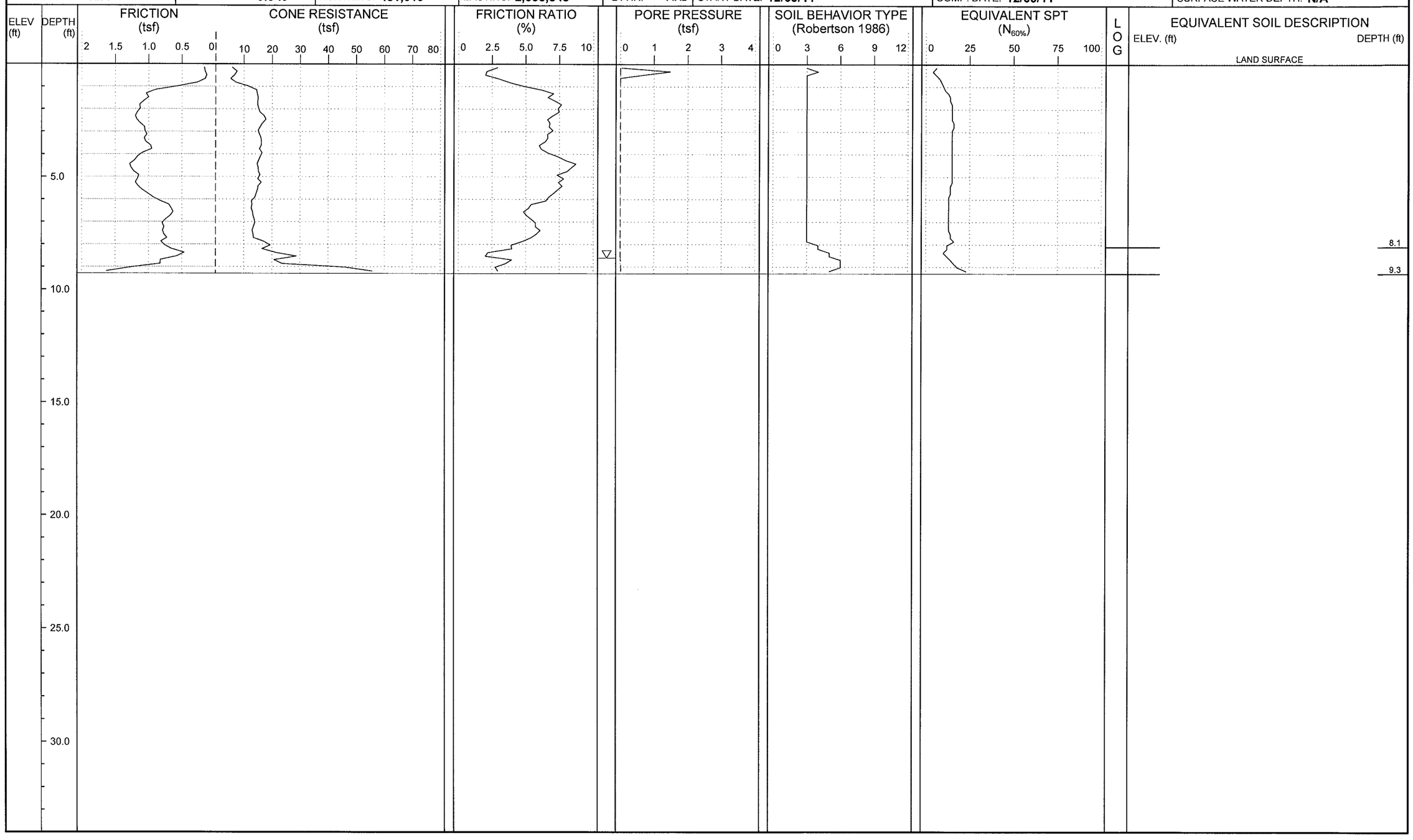


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	46
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-55000**	STATION: **550+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **481,019**	EASTING: **2,535,845**	24 HR. **FIAD**	START DATE: **12/09/11**	COMP. DATE: **12/09/11**	SURFACE WATER DEPTH: **N/A**

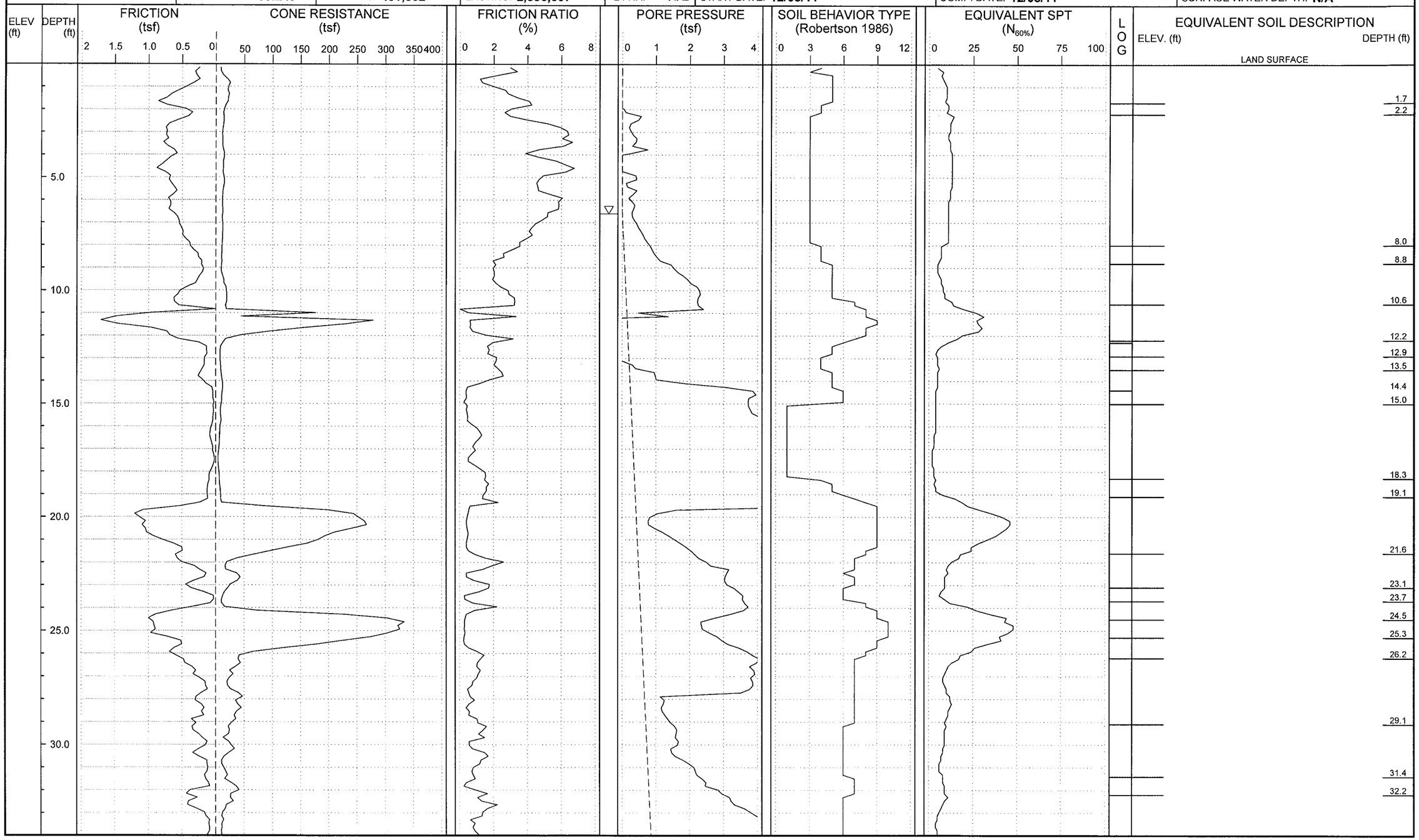


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	47
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-56000**	STATION: **560+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **6.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **36.2 ft**	NORTHING: **481,852**	EASTING: **2,536,397**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**



L O G

EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

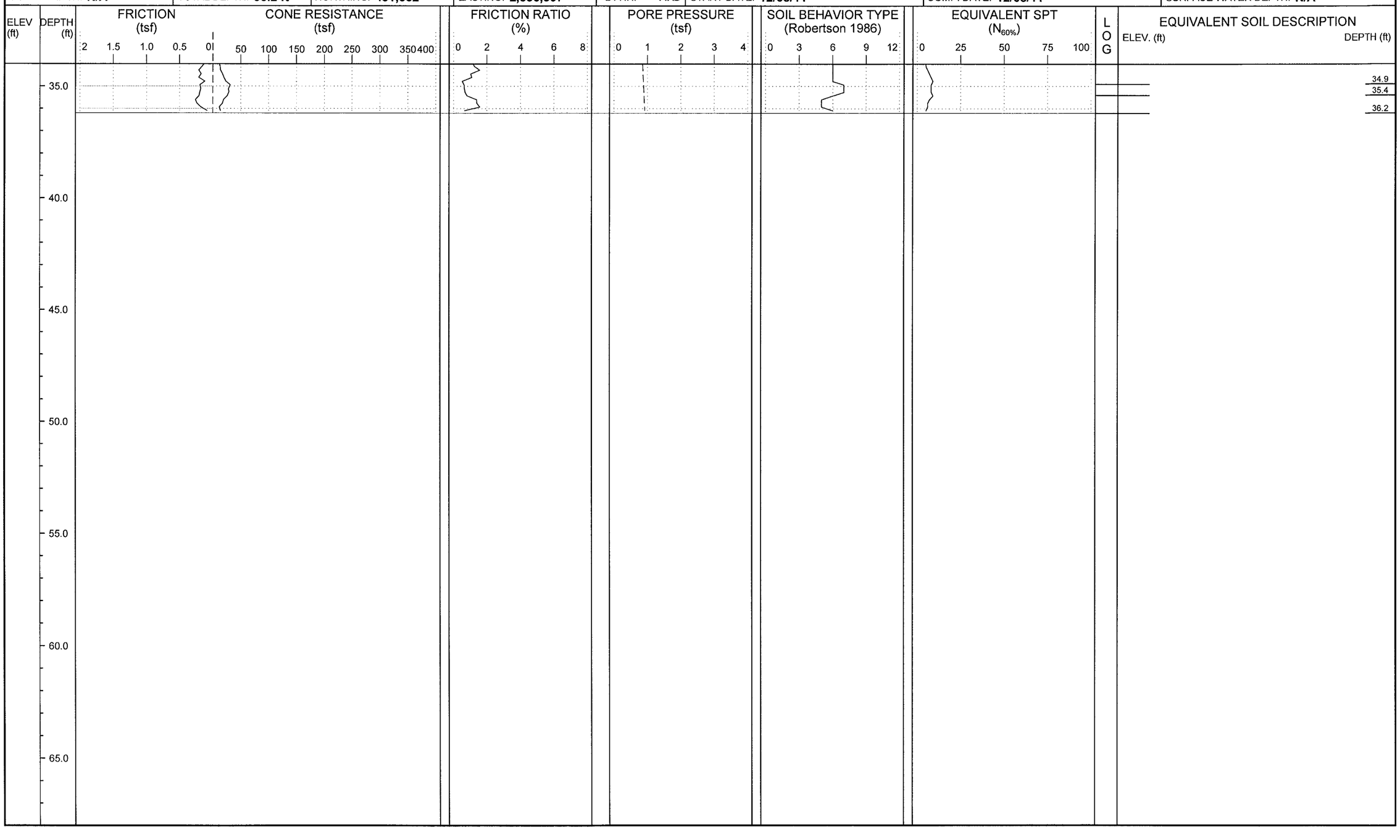
1.7
2.2
8.0
8.8
10.6
12.2
12.9
13.5
14.4
15.0
18.3
19.1
21.6
23.1
23.7
24.5
25.3
26.2
29.1
31.4
32.2

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	48
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-56000**	STATION: **560+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **6.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **36.2 ft**	NORTHING: **481,852**	EASTING: **2,536,397**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

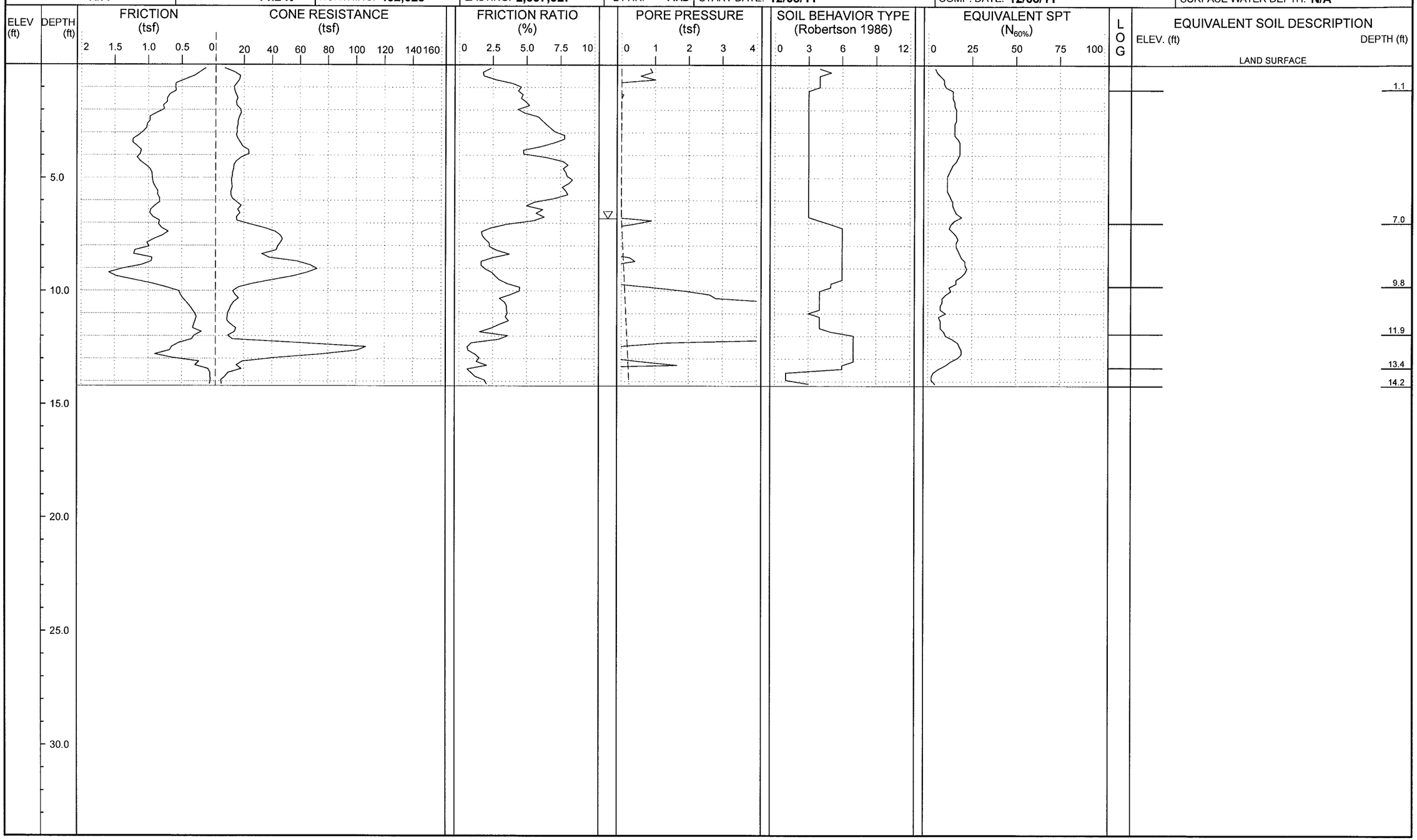
34.9
35.4
36.2

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	49
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-57000**	STATION: **570+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **6.8**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **14.2 ft**	NORTHING: **482,628**	EASTING: **2,537,027**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

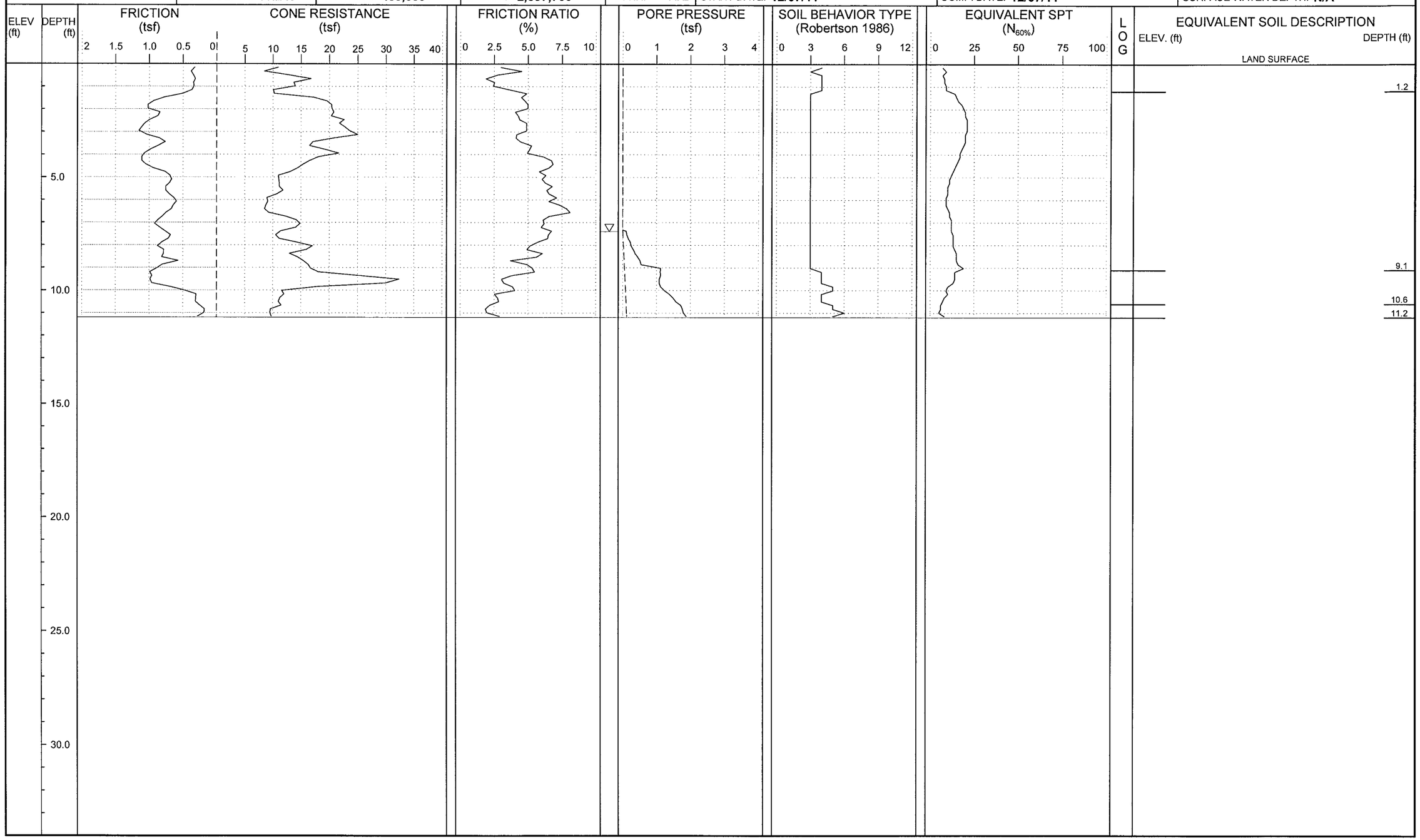


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	50
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-58000**	STATION: **580+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.4**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **11.2 ft**	NORTHING: **483,339**	EASTING: **2,537,730**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

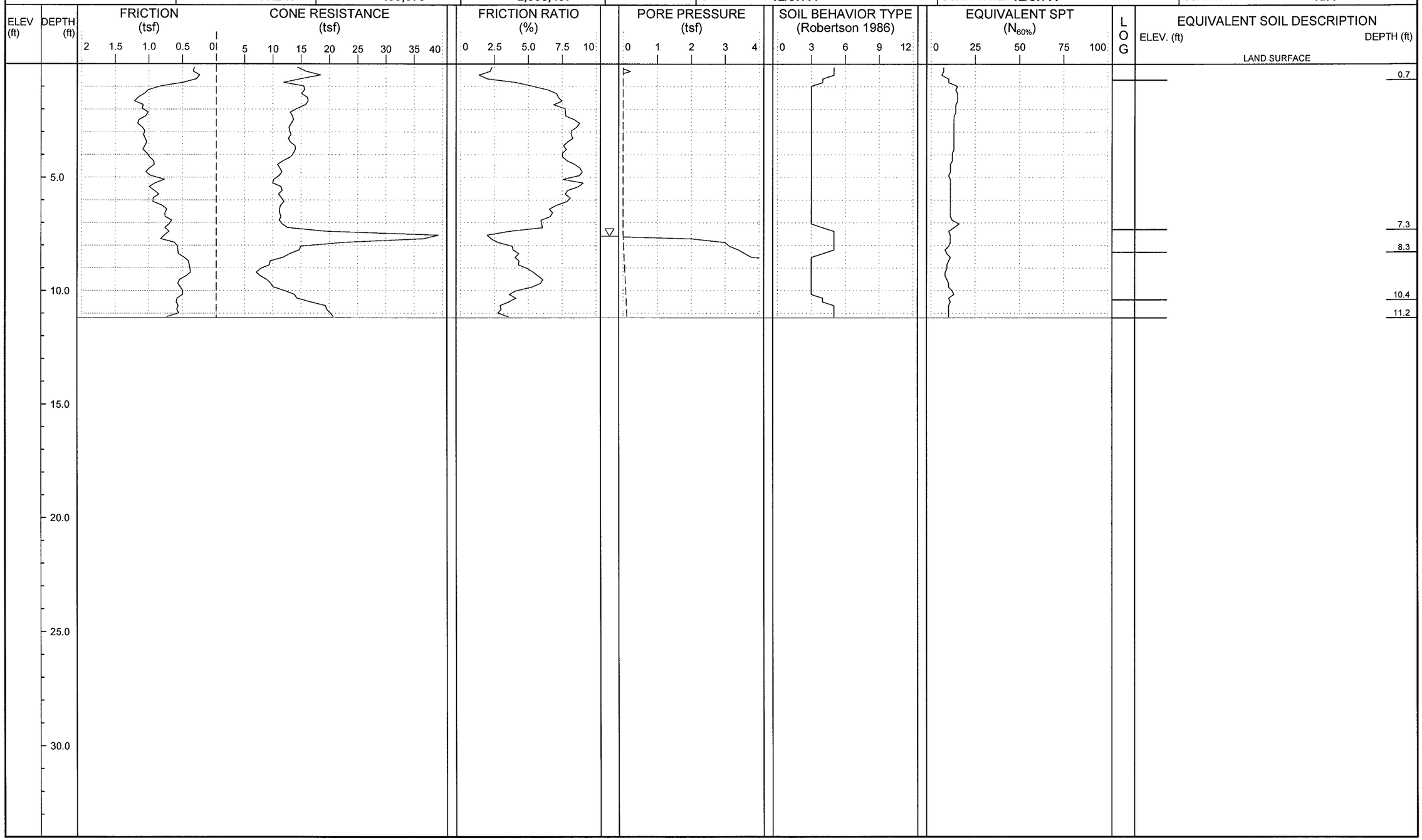


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	51
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-59000**	STATION: **590+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **11.2 ft**	NORTHING: **483,979**	EASTING: **2,538,497**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

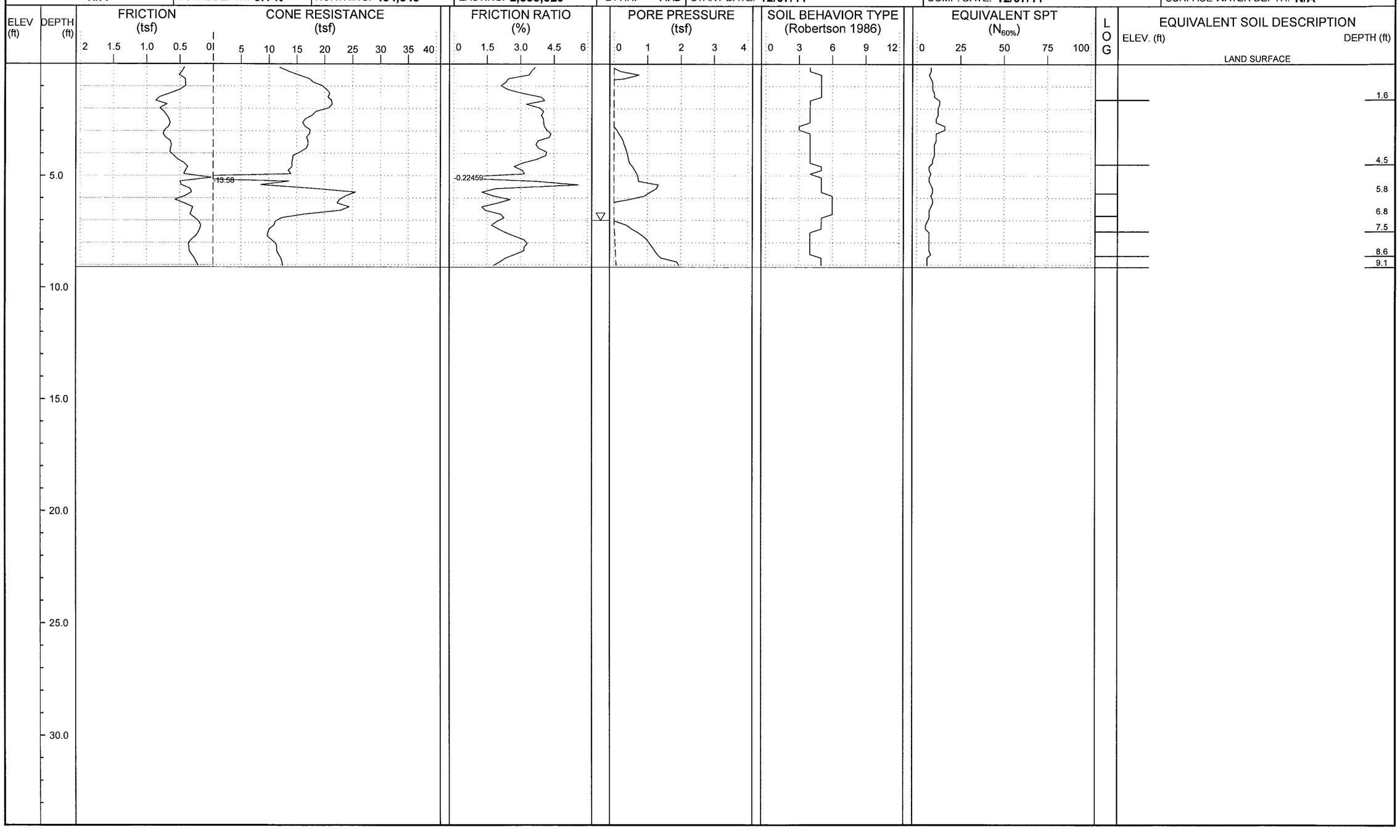


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	52
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **L-60000**	STATION: **600+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **7.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,548**	EASTING: **2,539,320**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

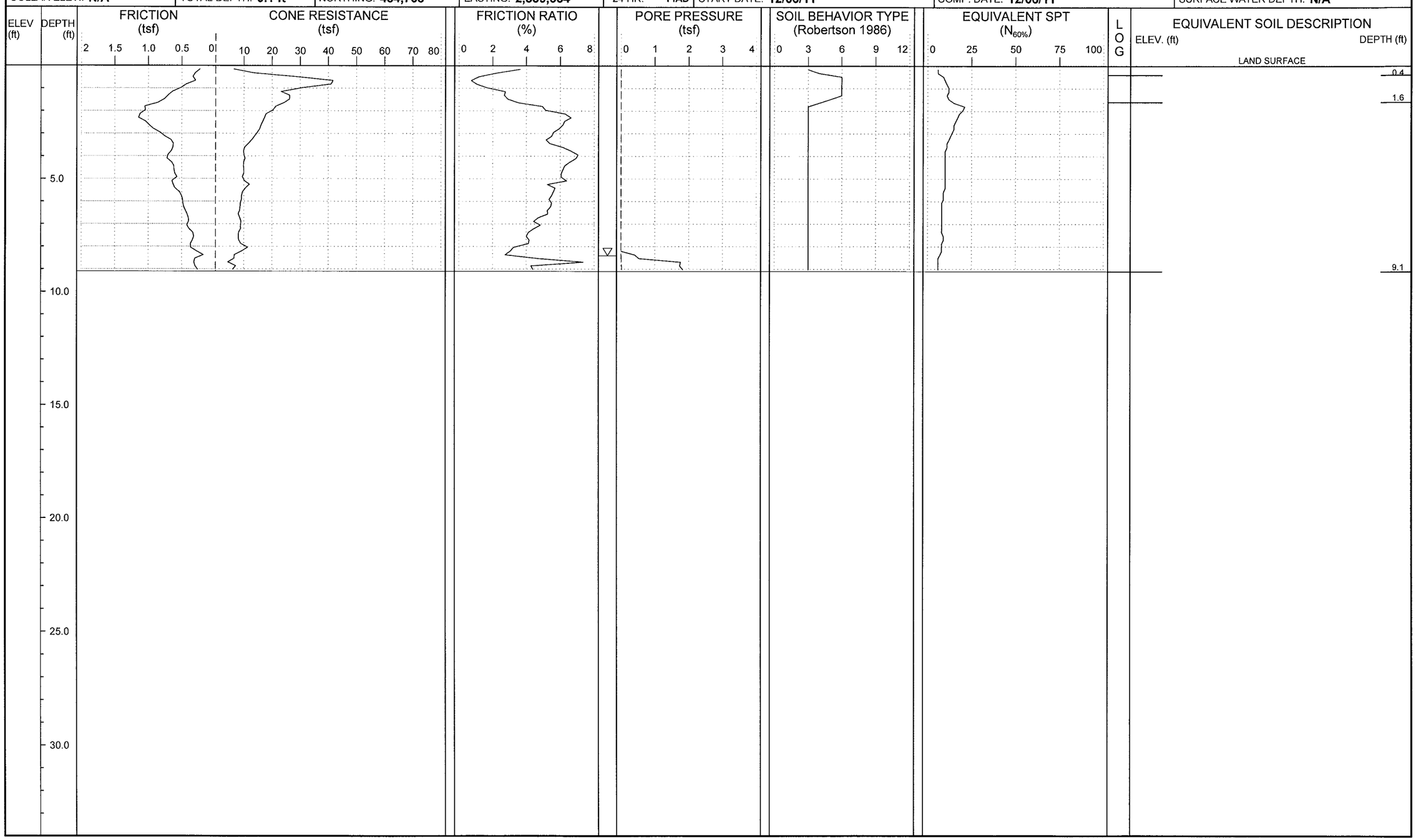


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	53
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-60400**	STATION: **640+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **8.4**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,768**	EASTING: **2,539,654**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**

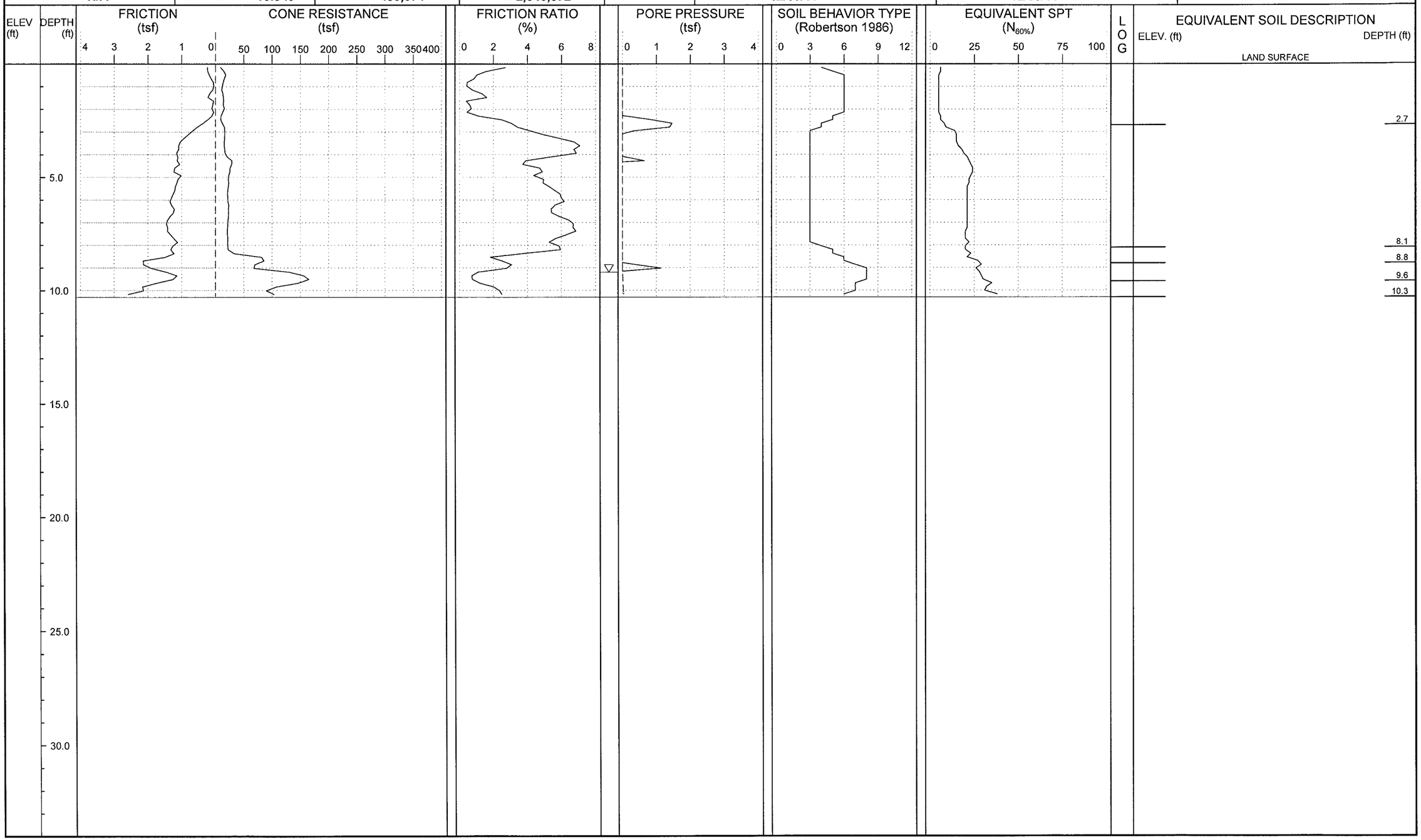


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	54
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-61500**	STATION: **615+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **9.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **10.3 ft**	NORTHING: **485,374**	EASTING: **2,540,572**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**

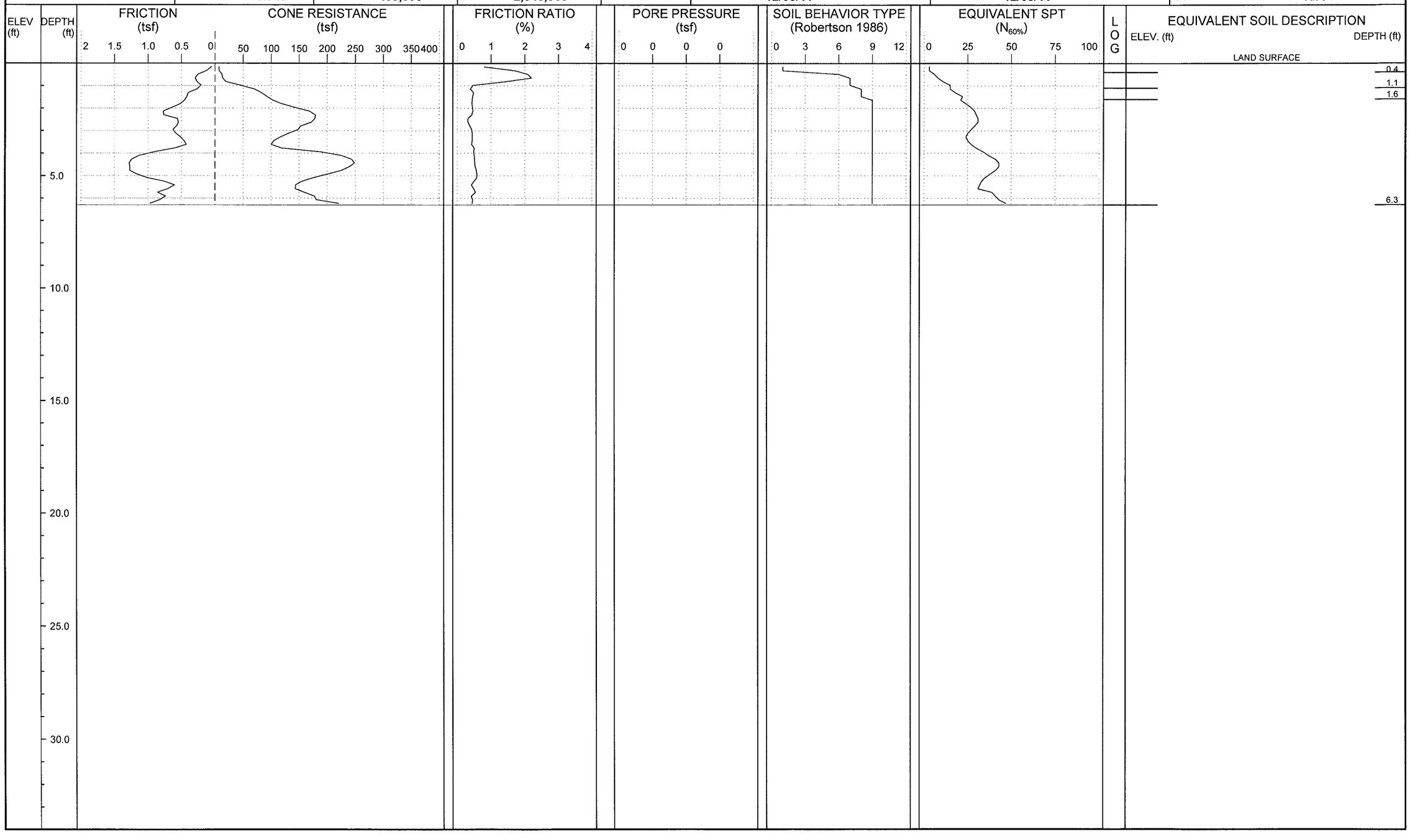


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	55
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-61900**	STATION: **619+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **6.3 ft**	NORTHING: **485,595**	EASTING: **2,540,905**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**



L O G

EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

0.4

1.1

1.6

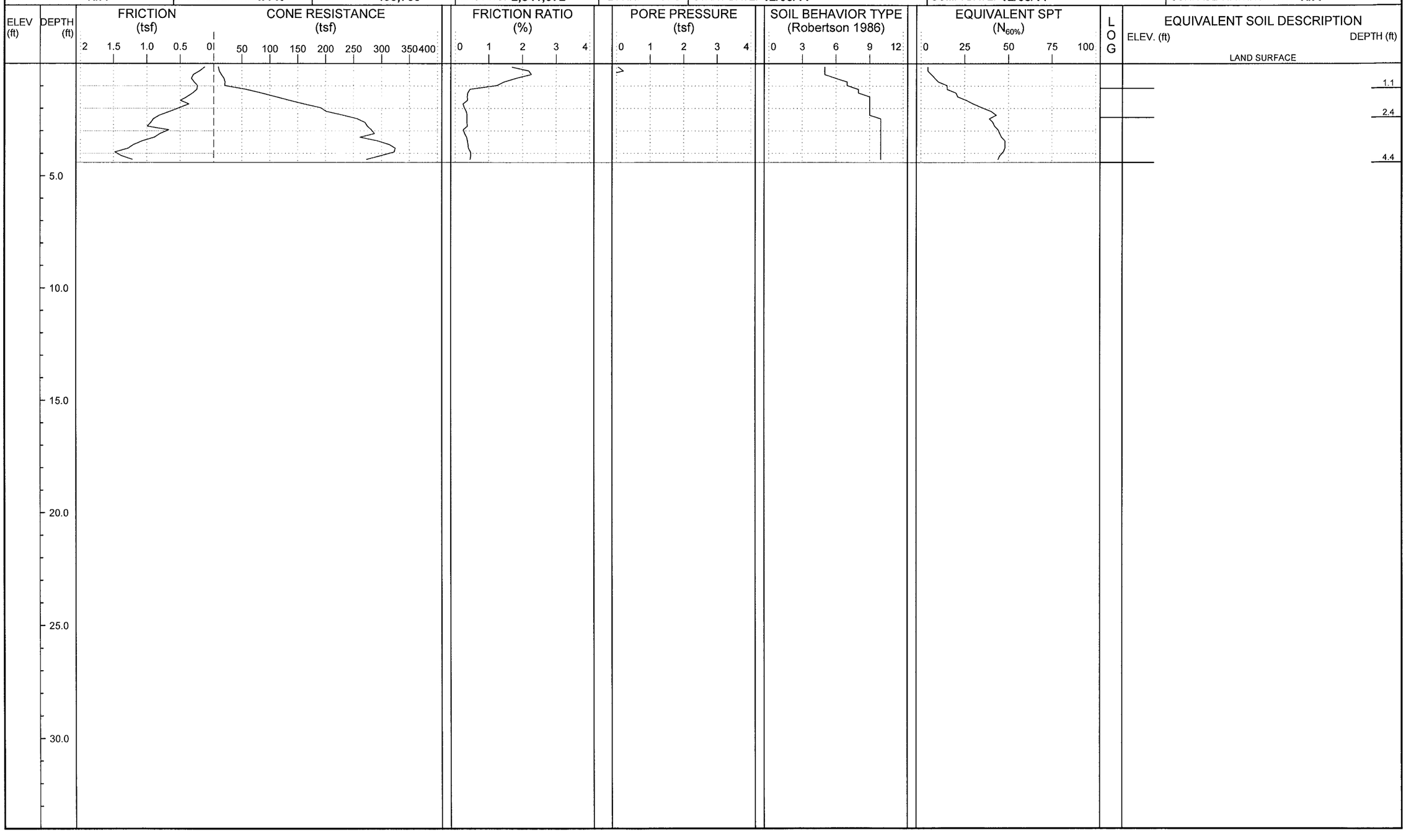
6.3

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	56
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-62100**	STATION: **621+00**	OFFSET: **0ft CL**	ALIGNMENT: **-L-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **4.4 ft**	NORTHING: **485,705**	EASTING: **2,541,072**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

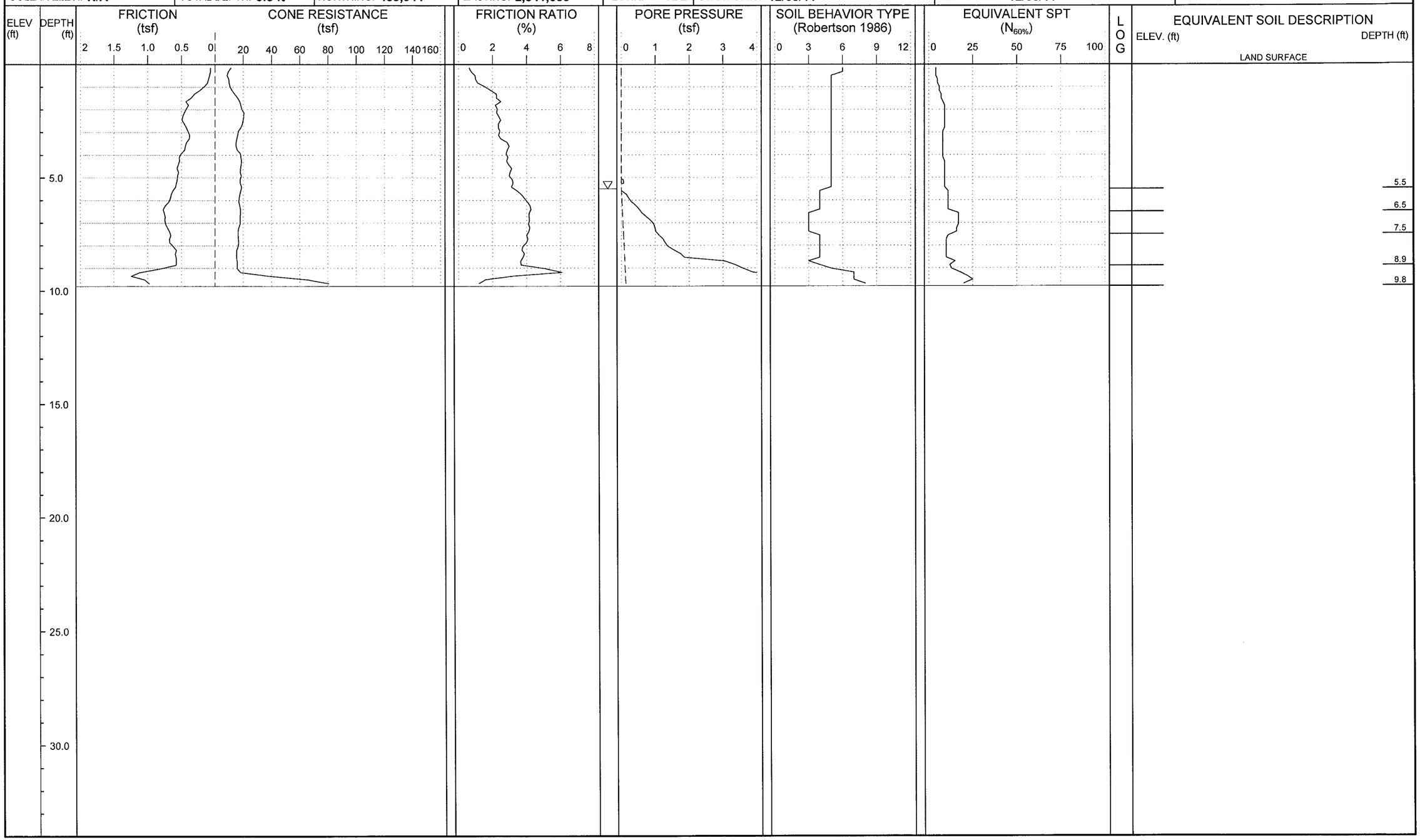


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	57
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **L-62700**	STATION: **627+00**	OFFSET: **110ft RT**	ALIGNMENT: **-L-**	0 HR. **5.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.8 ft**	NORTHING: **485,944**	EASTING: **2,541,633**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

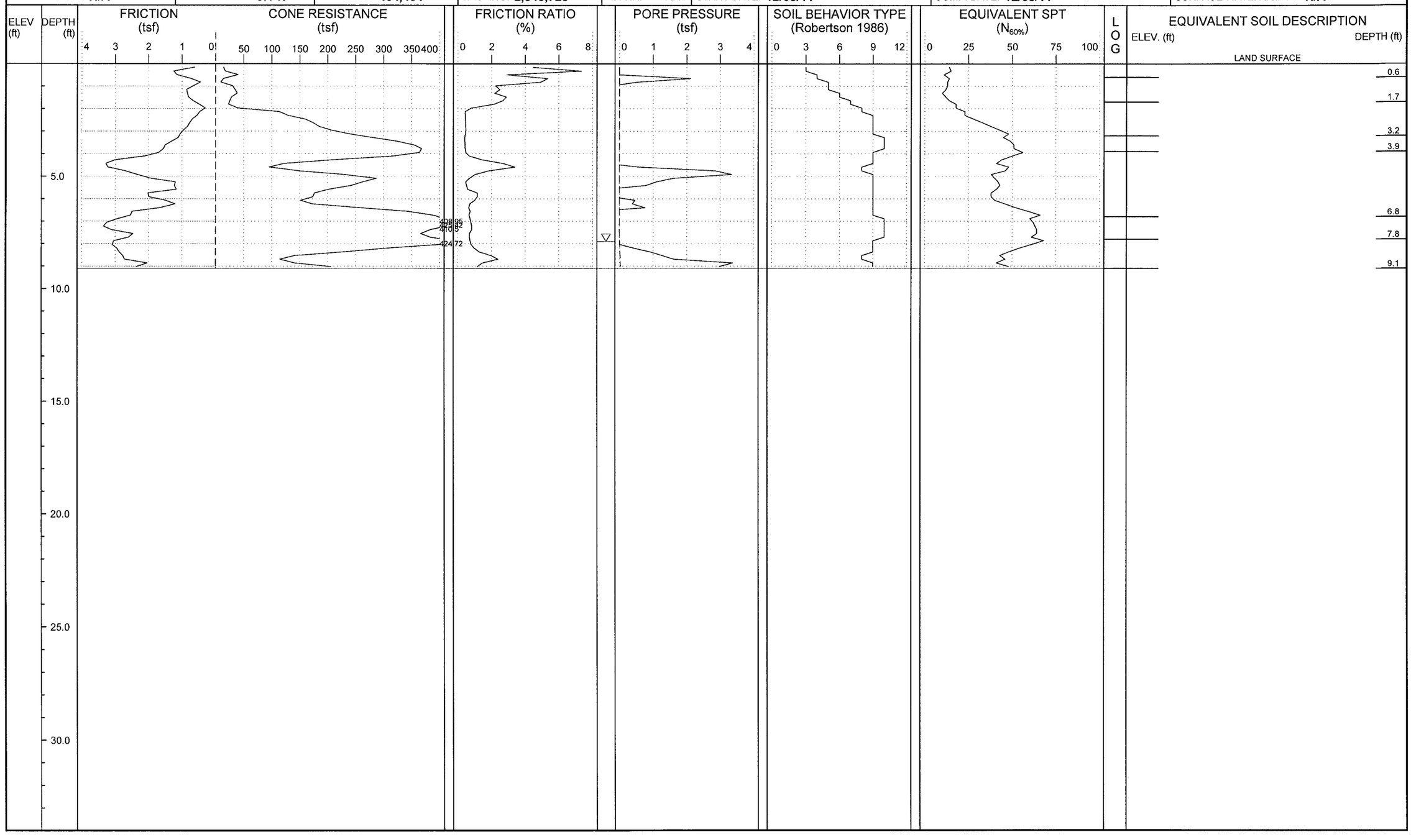


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	58
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10-2000**	STATION: **20+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10-**	0 HR. **7.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,484**	EASTING: **2,540,728**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

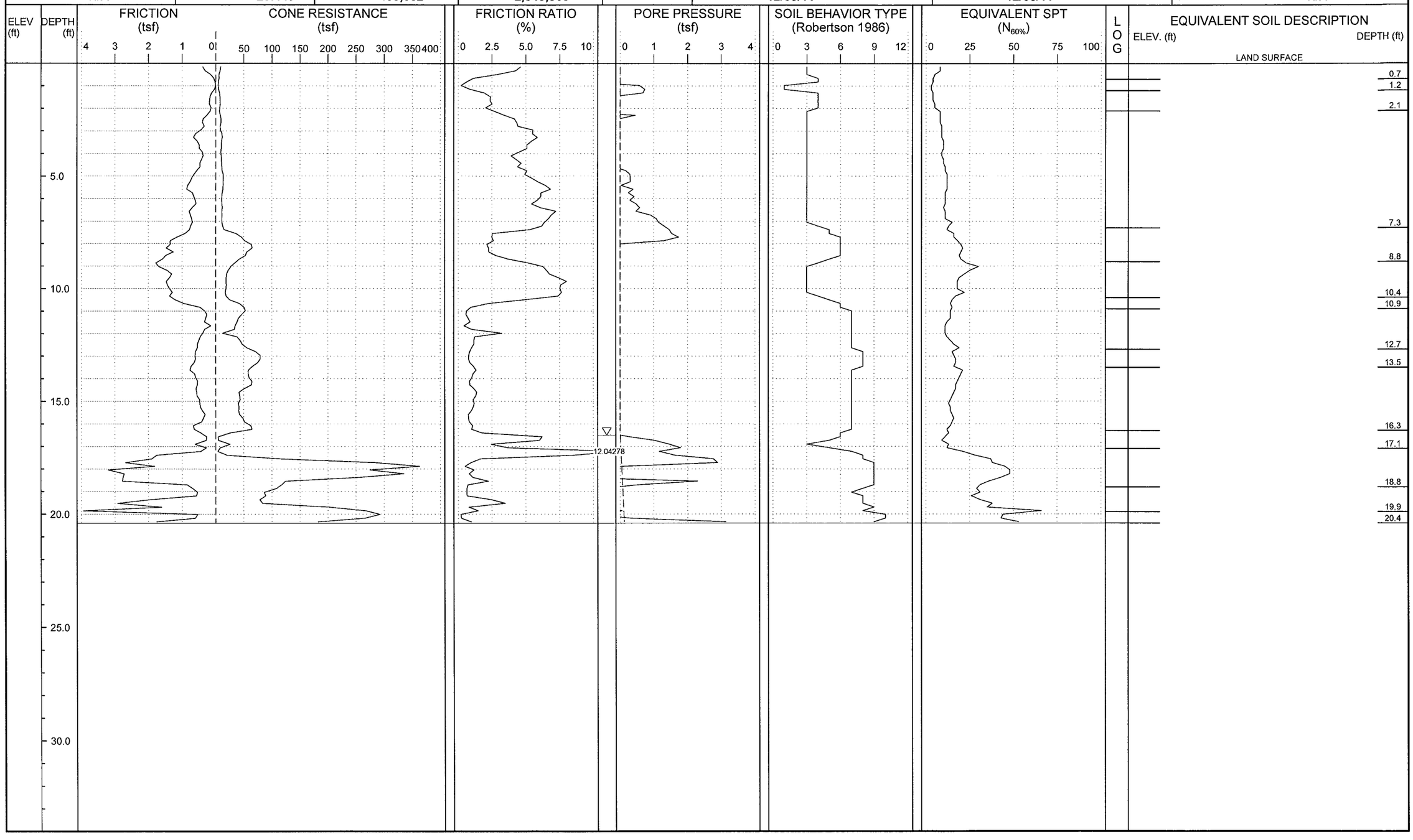


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	59
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10-2700**	STATION: **27+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10-**	0 HR. **16.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **20.4 ft**	NORTHING: **485,082**	EASTING: **2,540,363**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

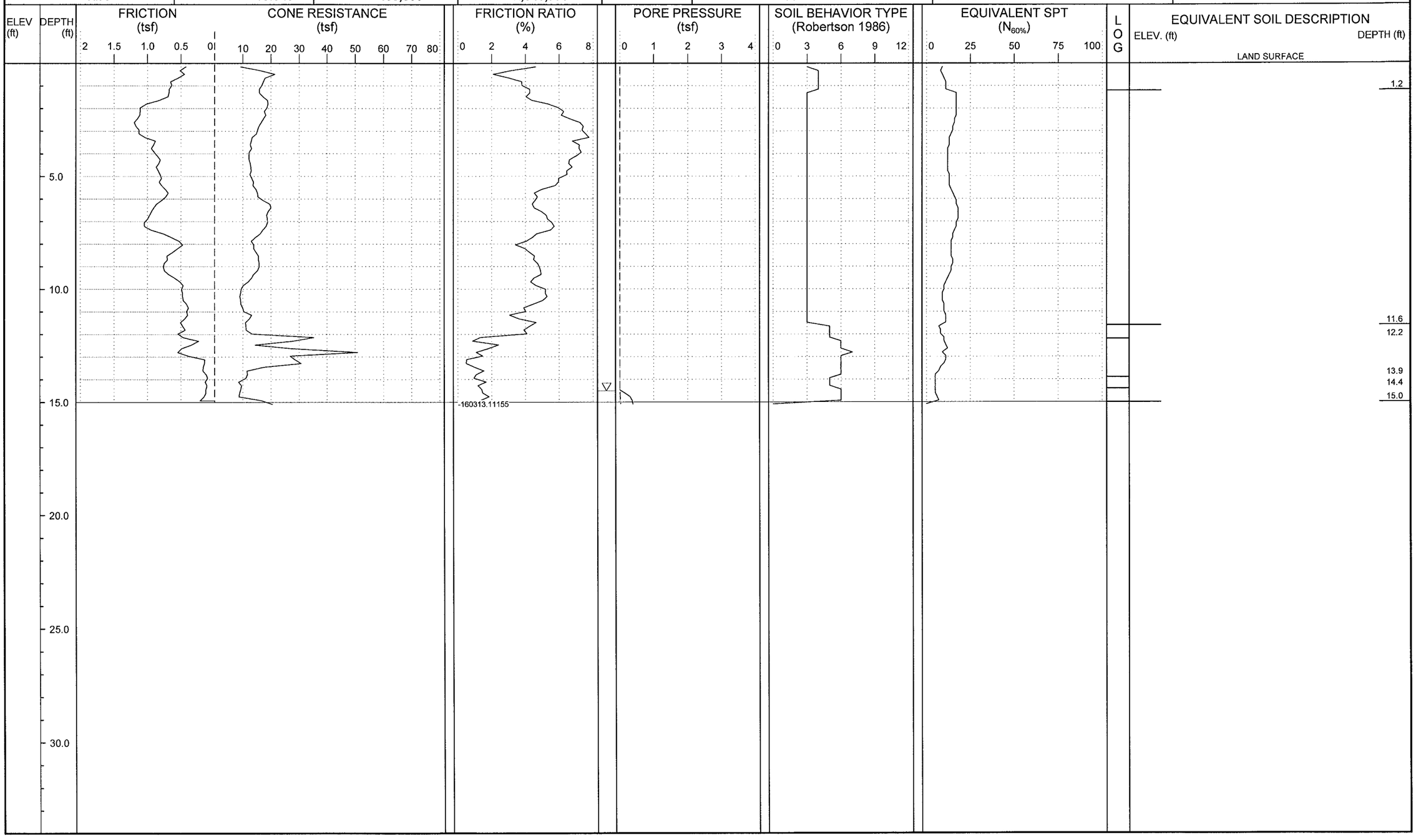


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	60
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPA-2600**	STATION: **26+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPA-**	0 HR. **14.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **15.0 ft**	NORTHING: **485,856**	EASTING: **2,540,779**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**

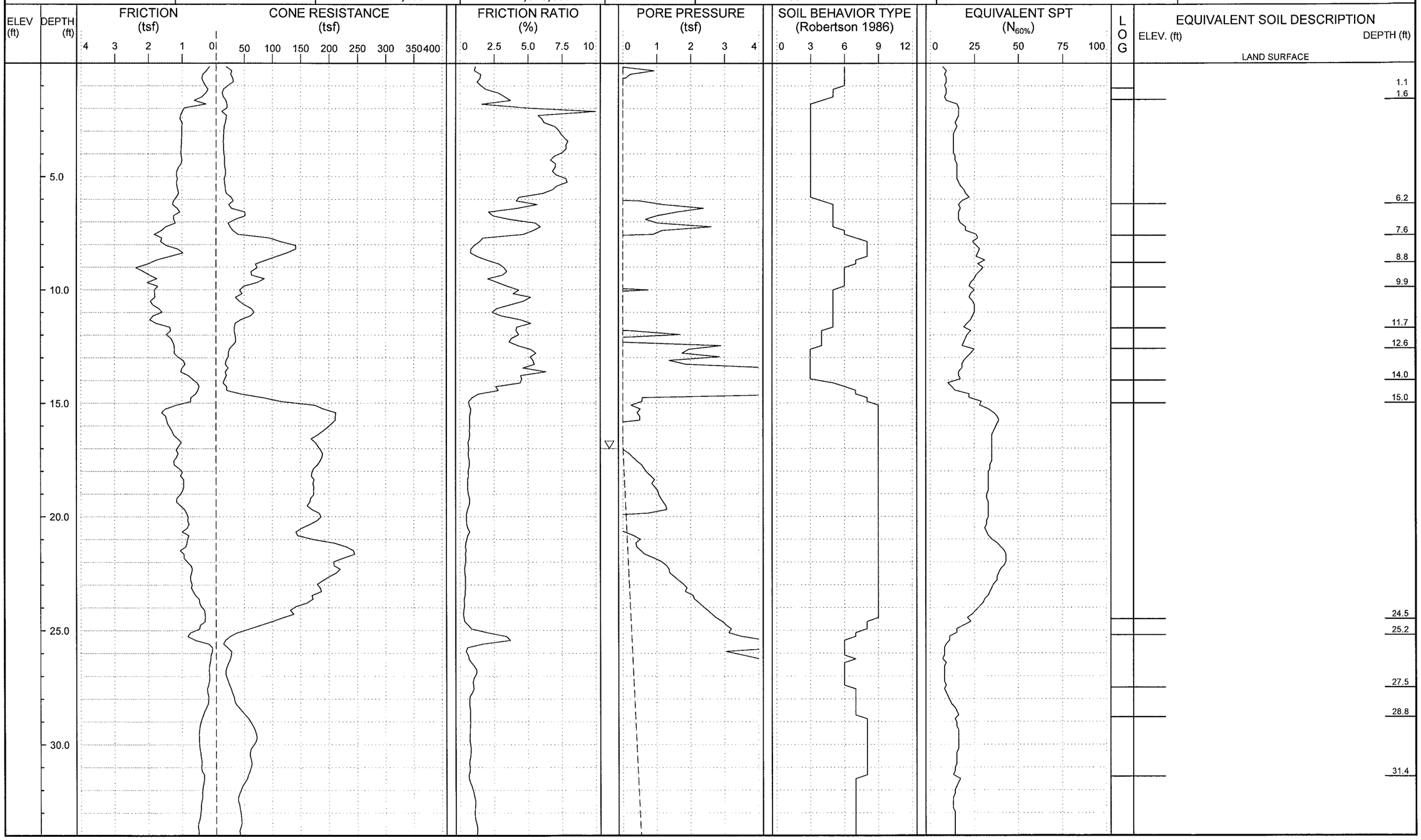


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	61
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPA-3400**	STATION: **34+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPA-**	0 HR. **17.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **35.2 ft**	NORTHING: **485,698**	EASTING: **2,540,080**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**

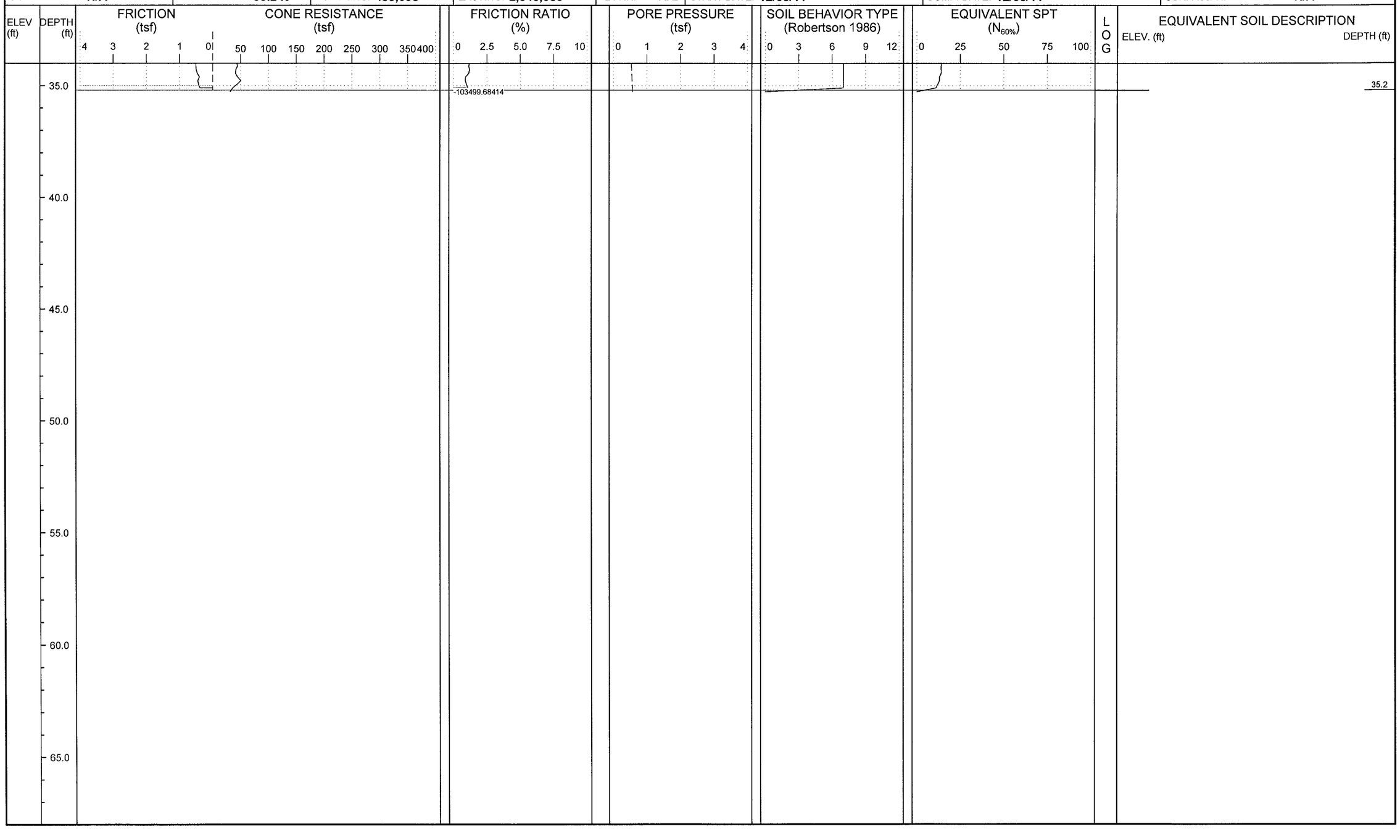


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	62
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPA-3400**	STATION: **34+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPA-**	0 HR. **17.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **35.2 ft**	NORTHING: **485,698**	EASTING: **2,540,080**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**

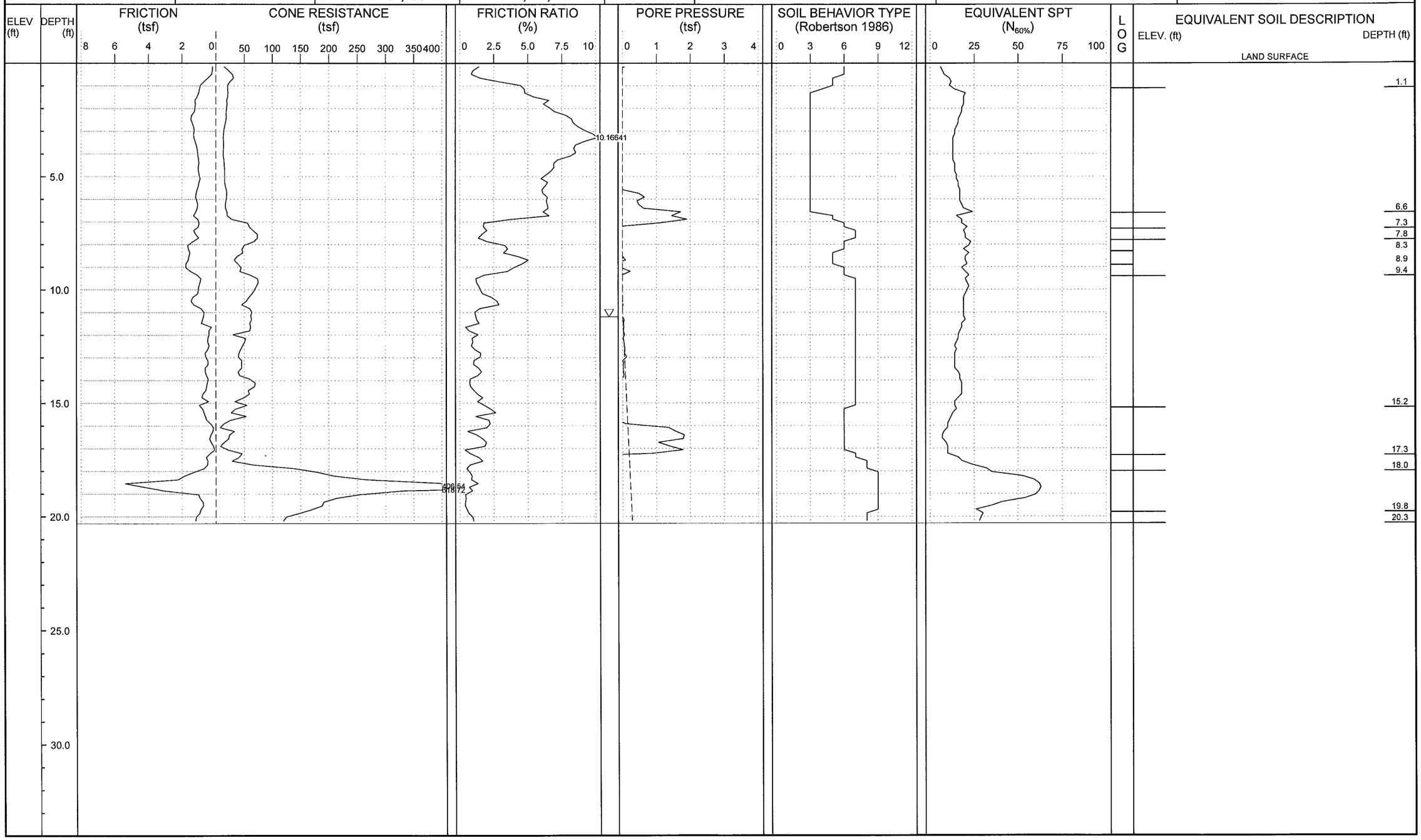


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	63
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPC-2000**	STATION: **20+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPC-**	0 HR. **11.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **20.3 ft**	NORTHING: **484,705**	EASTING: **2,540,413**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

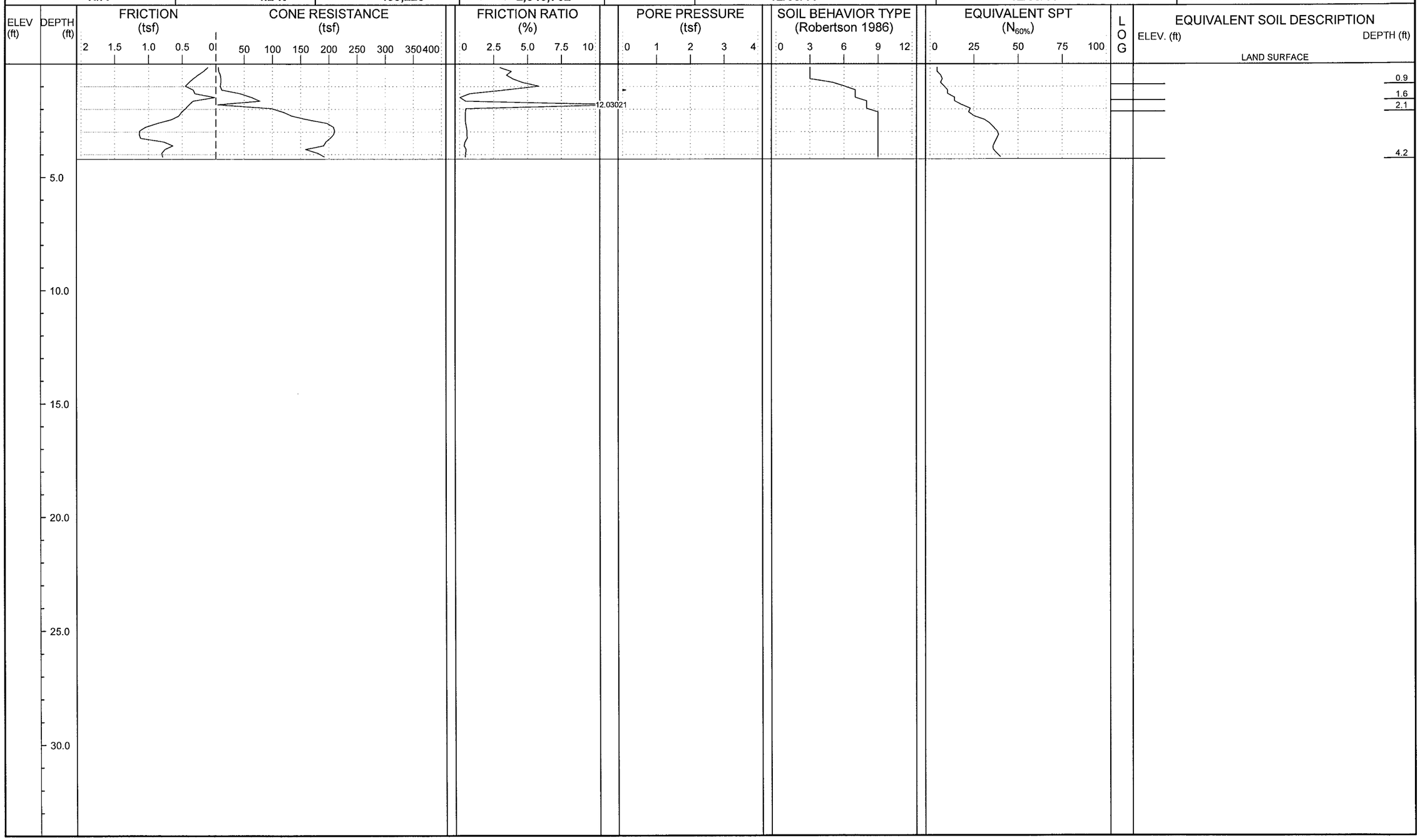


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	64
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPD-1600**	STATION: **16+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPD-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **4.2 ft**	NORTHING: **485,225**	EASTING: **2,540,702**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

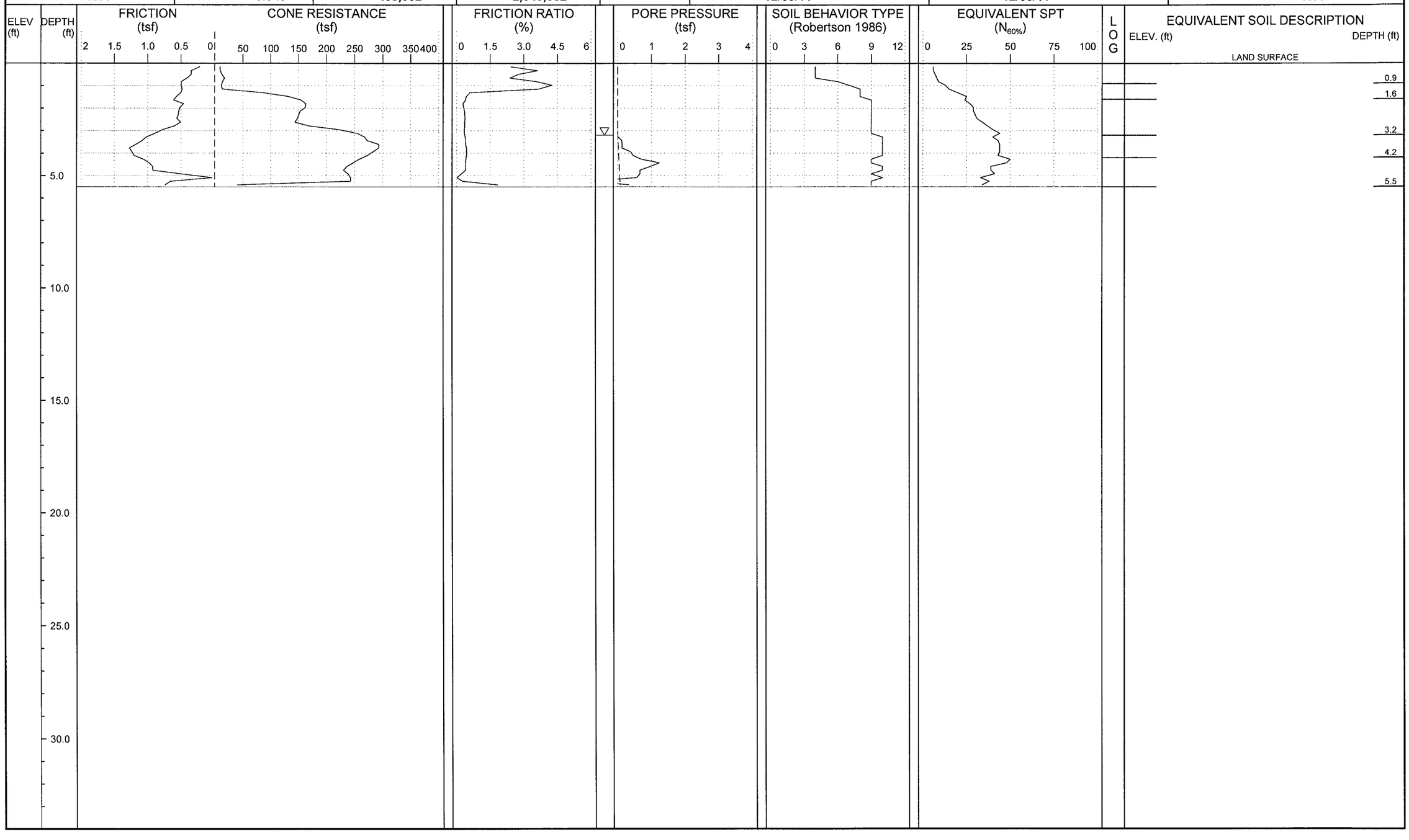


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	65
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y10RPD-1800**	STATION: **18+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y10RPD-**	0 HR. **3.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **5.5 ft**	NORTHING: **485,032**	EASTING: **2,540,652**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

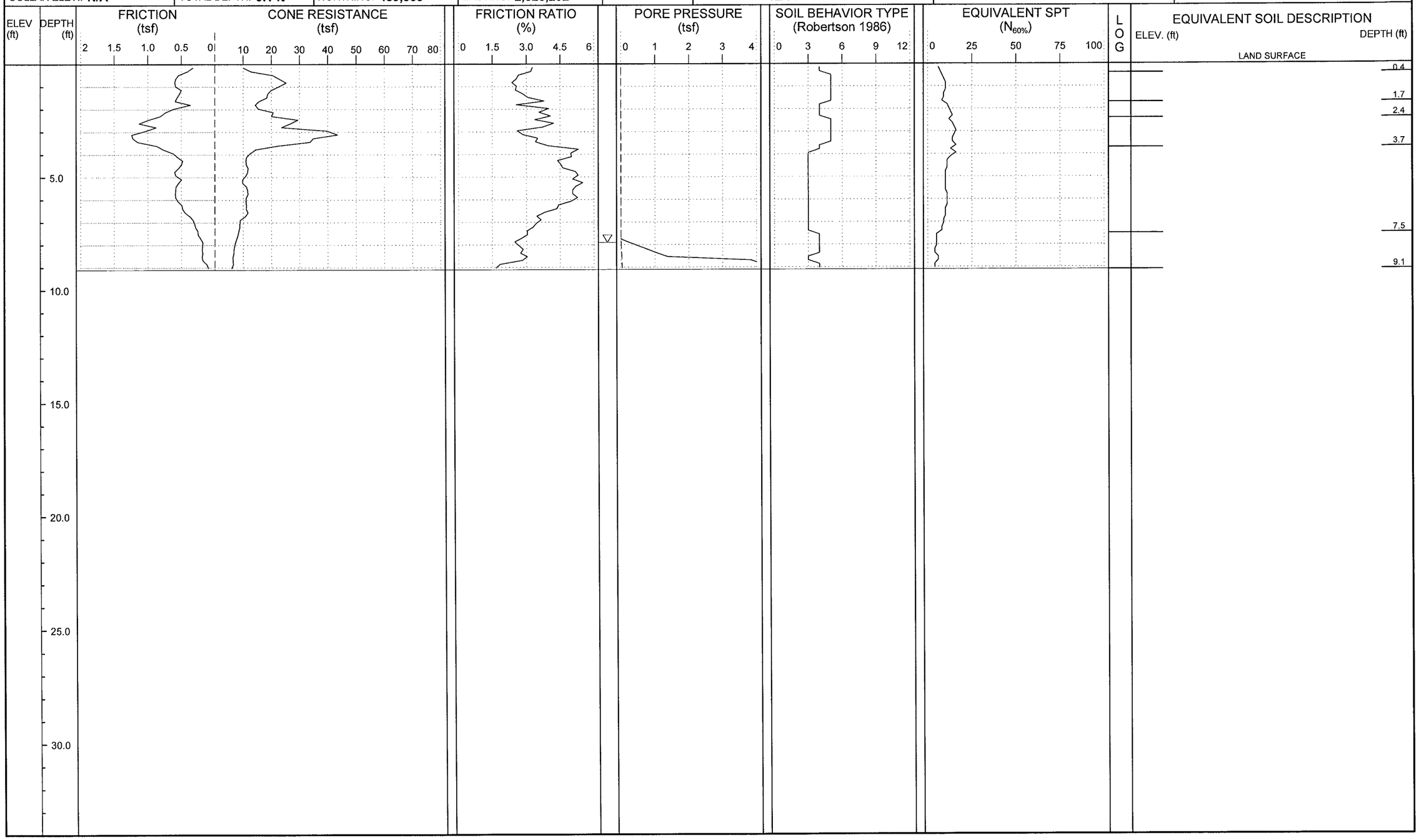


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	66
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-1700**	STATION: **17+00**	OFFSET: **25ft RT**	ALIGNMENT: **-Y3-**	0 HR. **7.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,335**	EASTING: **2,528,292**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

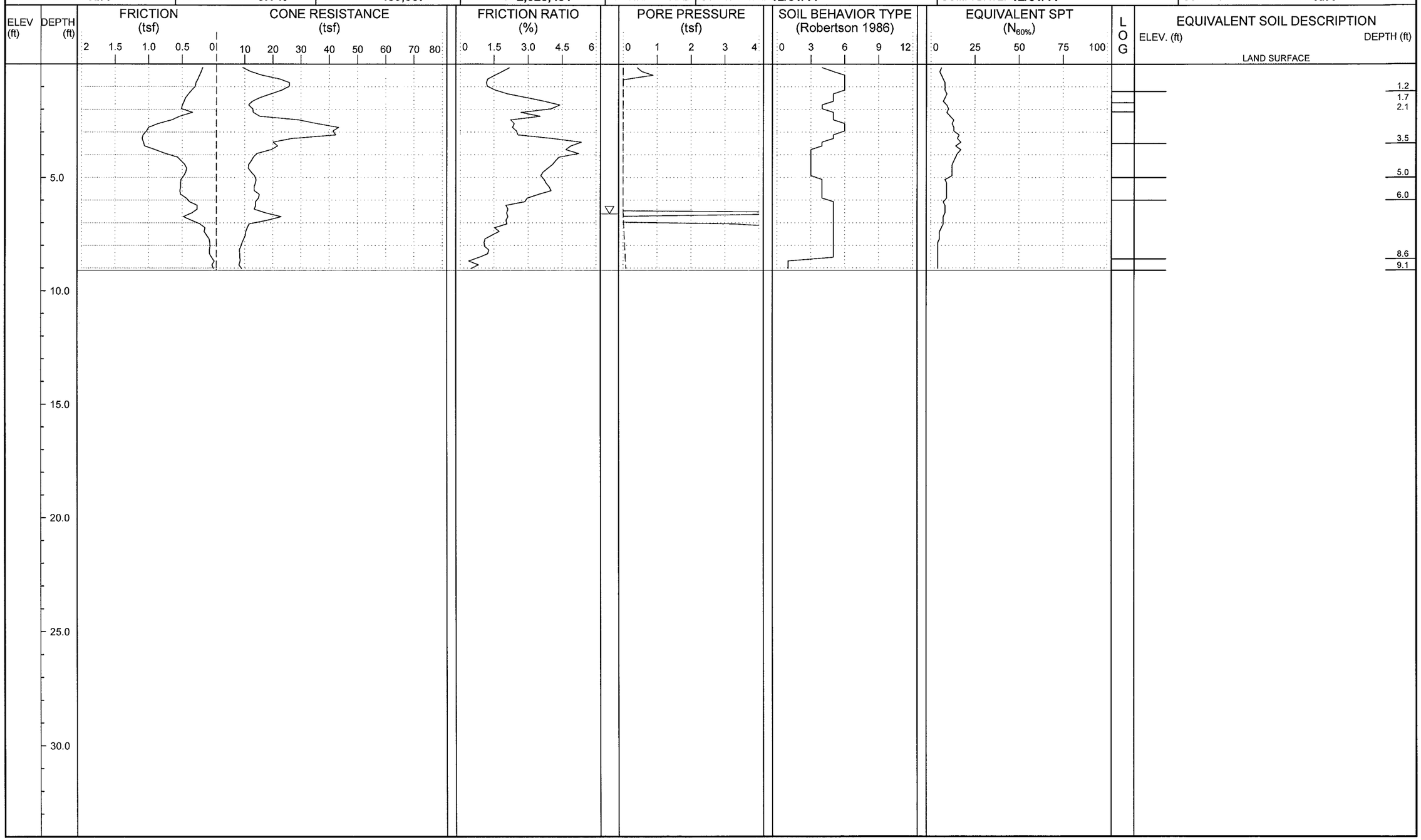


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	67
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-1900**	STATION: **19+00**	OFFSET: **25ft LT**	ALIGNMENT: **-Y3-**	0 HR. **6.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,387**	EASTING: **2,528,491**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

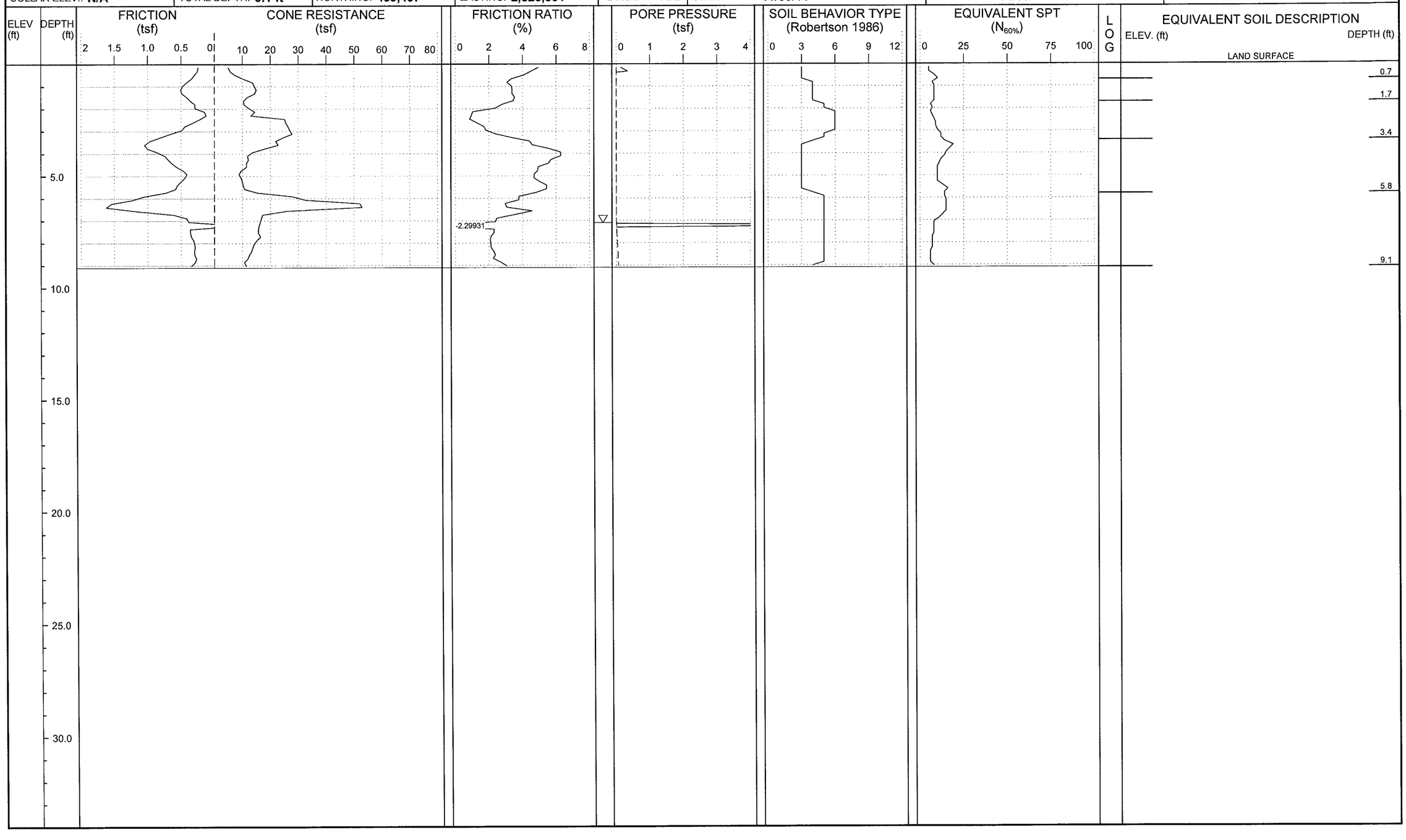


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	68
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**		
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**	
BORING NO.: **Y3-2300**	STATION: **23+00**	OFFSET: **40ft LT**	ALIGNMENT: **-Y3-**	0 HR. **7.1**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,407**	EASTING: **2,528,891**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

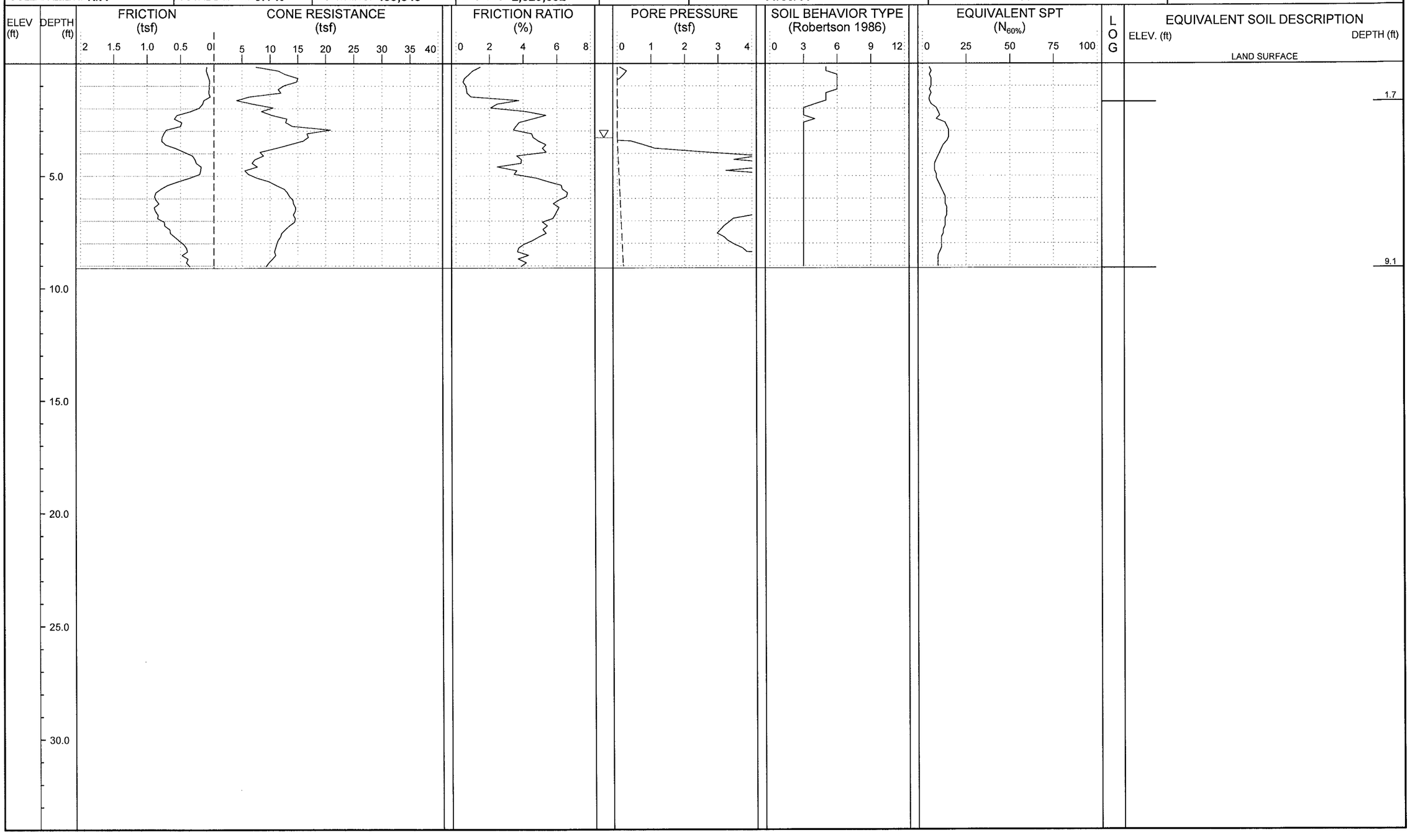


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	69
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-2500**	STATION: **25+00**	OFFSET: **25ft RT**	ALIGNMENT: **-Y3-**	0 HR. **3.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,345**	EASTING: **2,529,092**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

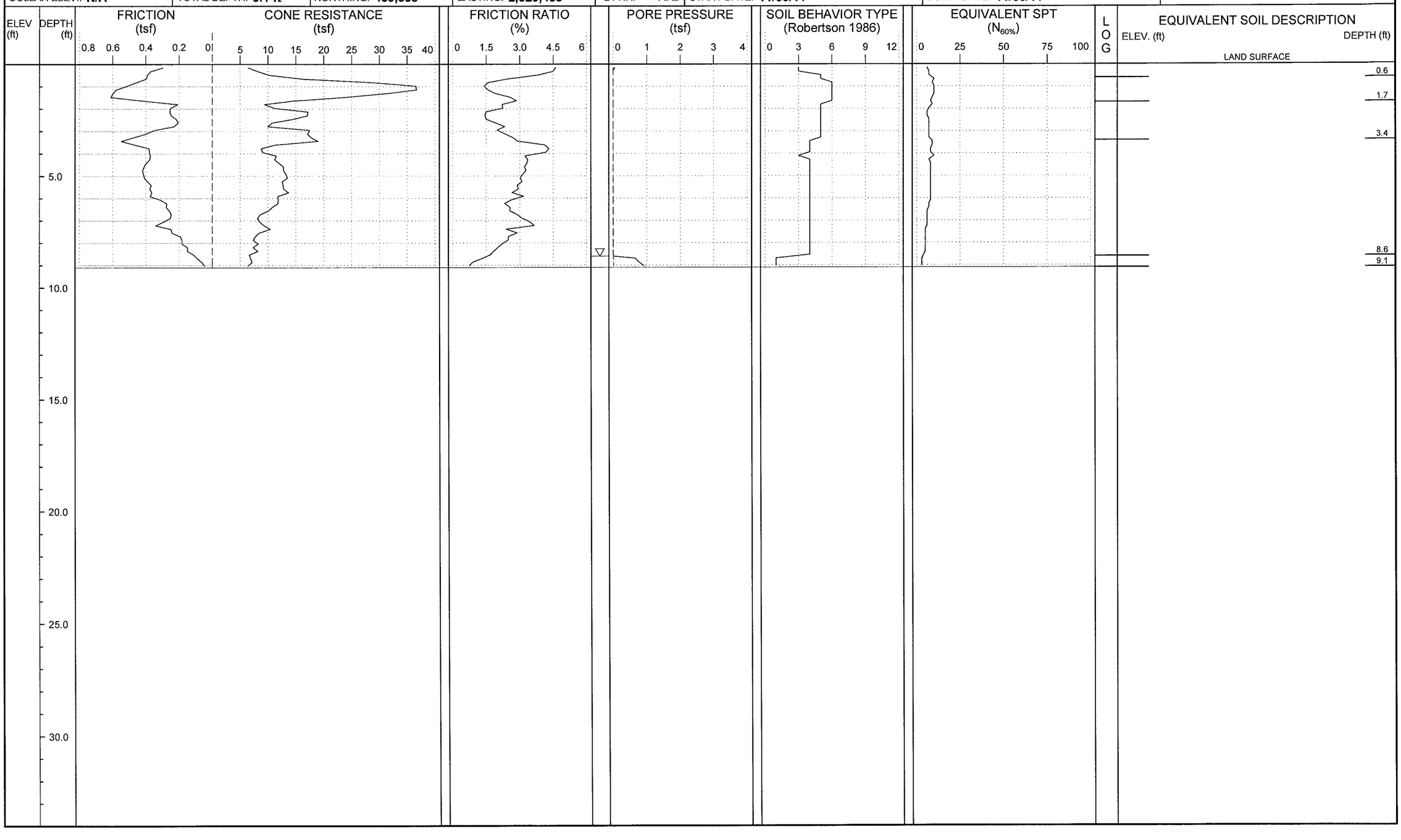


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	70
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-2900**	STATION: **29+00**	OFFSET: **25ft RT**	ALIGNMENT: **-Y3-**	0 HR. **8.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,333**	EASTING: **2,529,488**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**



L O G

EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

0.6

1.7

3.4

8.6

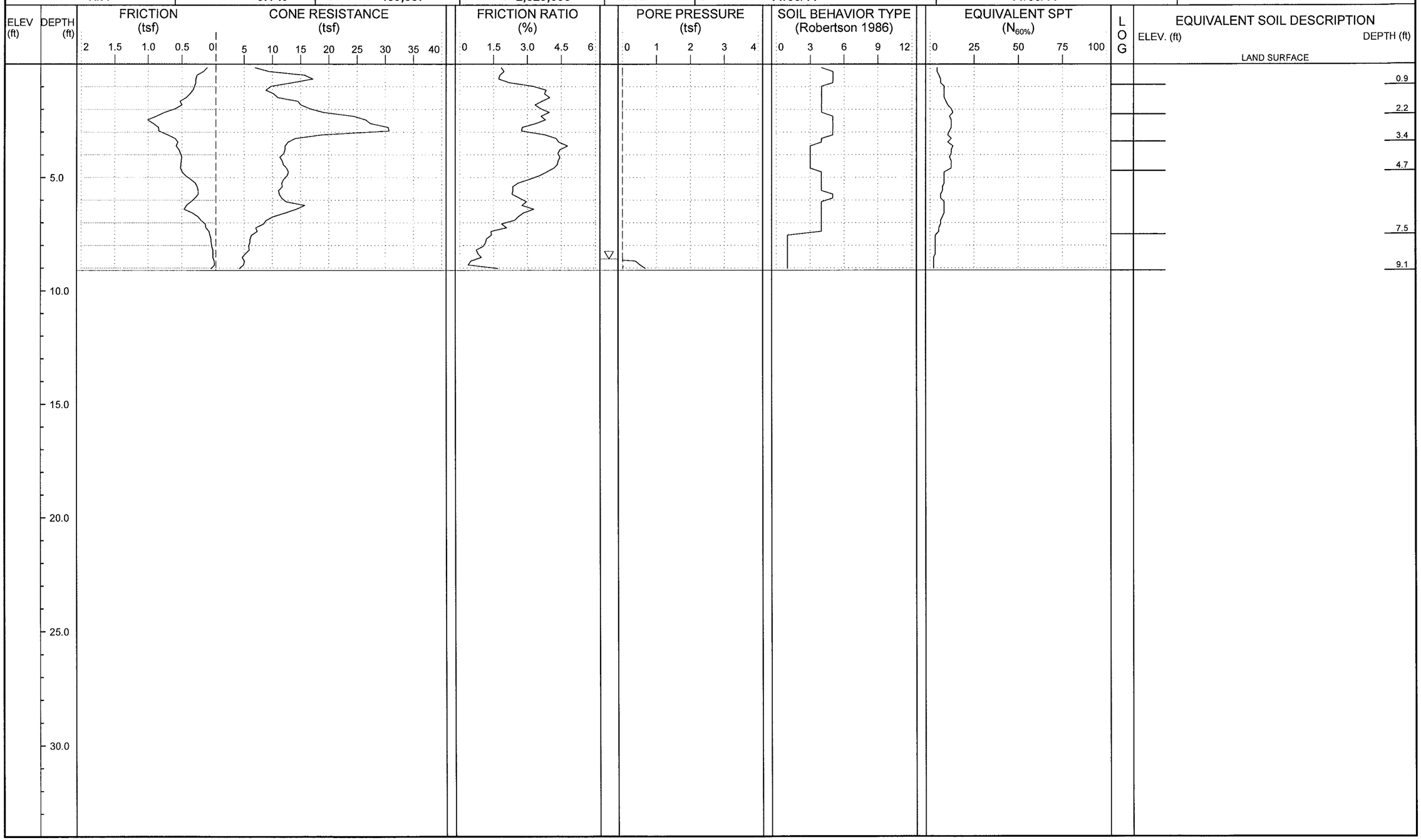
9.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	71
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-3100**	STATION: **31+00**	OFFSET: **25ft LT**	ALIGNMENT: **-Y3-**	0 HR. **8.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,357**	EASTING: **2,529,693**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

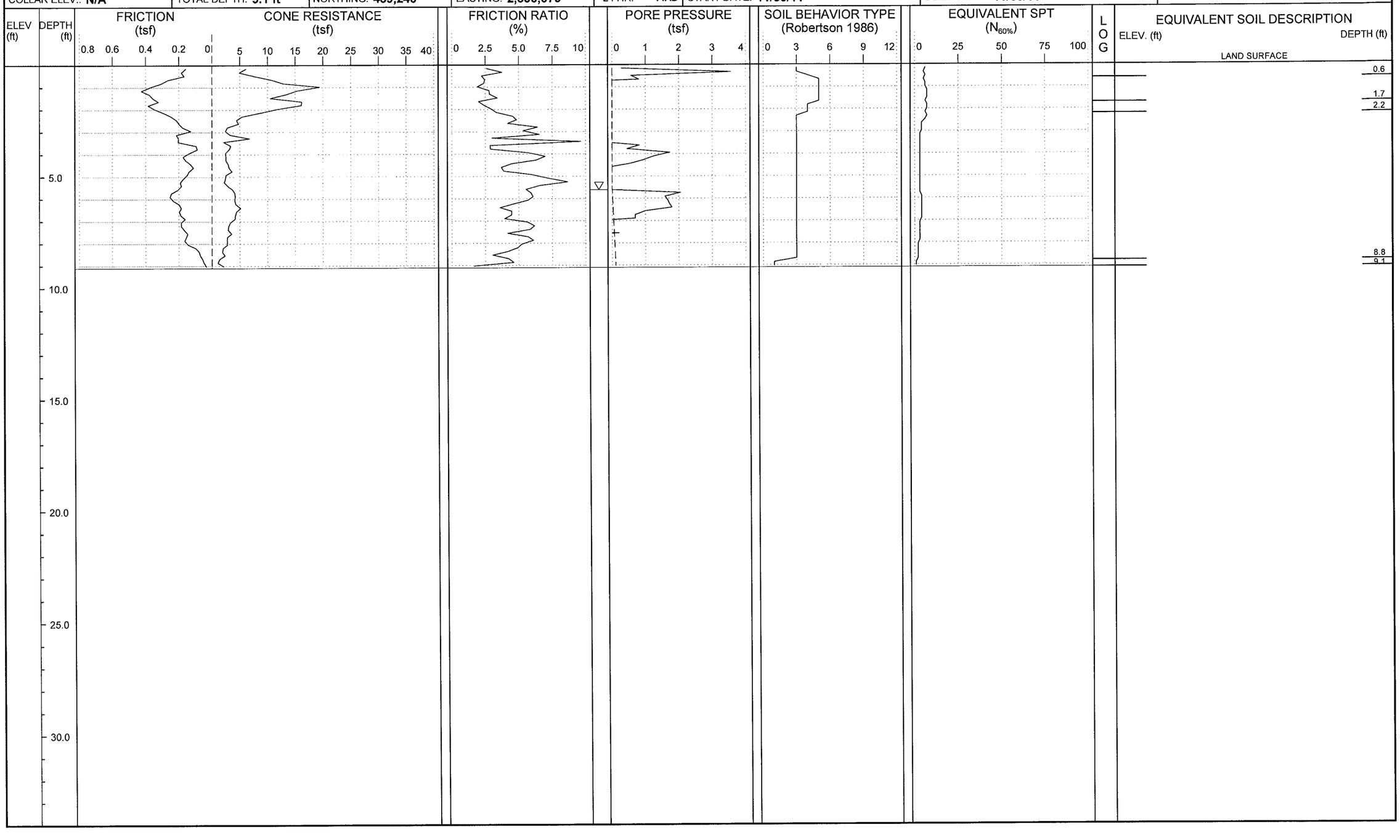


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	72
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-3500**	STATION: **35+00**	OFFSET: **25ft RT**	ALIGNMENT: **-Y3-**	0 HR. **5.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,240**	EASTING: **2,530,079**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

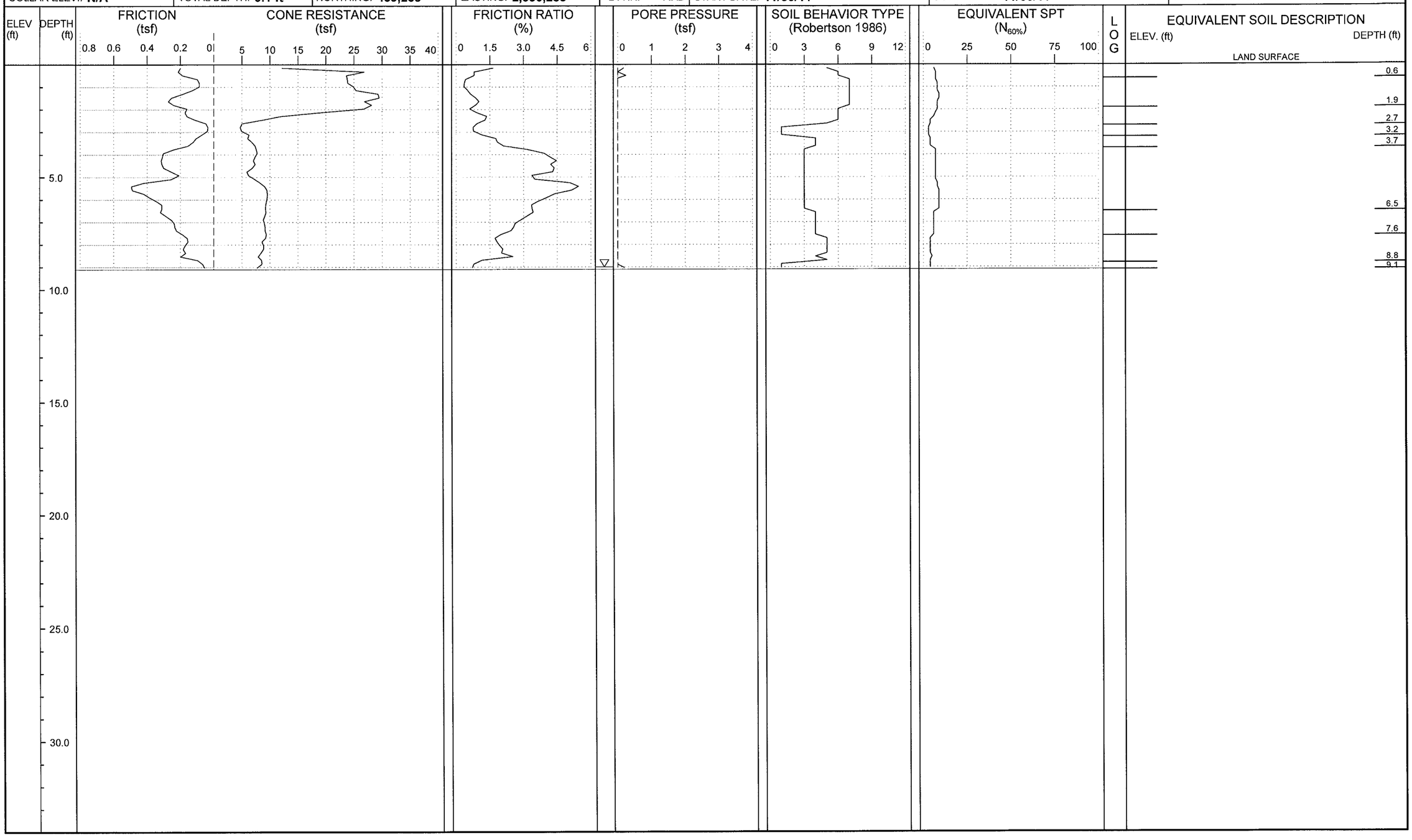


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	73
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3-3700**	STATION: **37+00**	OFFSET: **25ft LT**	ALIGNMENT: **-Y3-**	0 HR. **9.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,255**	EASTING: **2,530,285**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

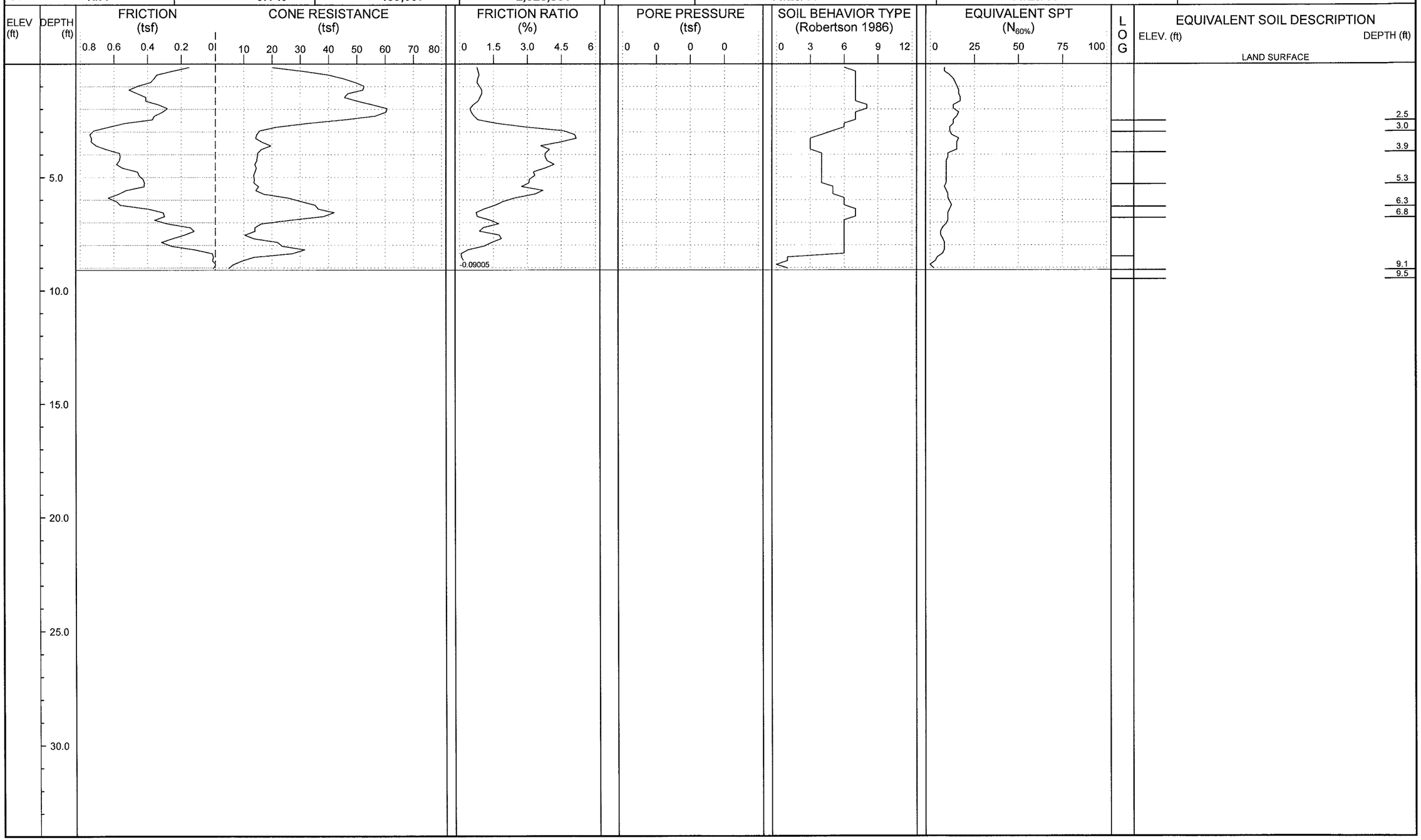


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	74
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3A-1460**	STATION: **14+60**	OFFSET: **50ft LT**	ALIGNMENT: **-Y3A-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,997**	EASTING: **2,528,561**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

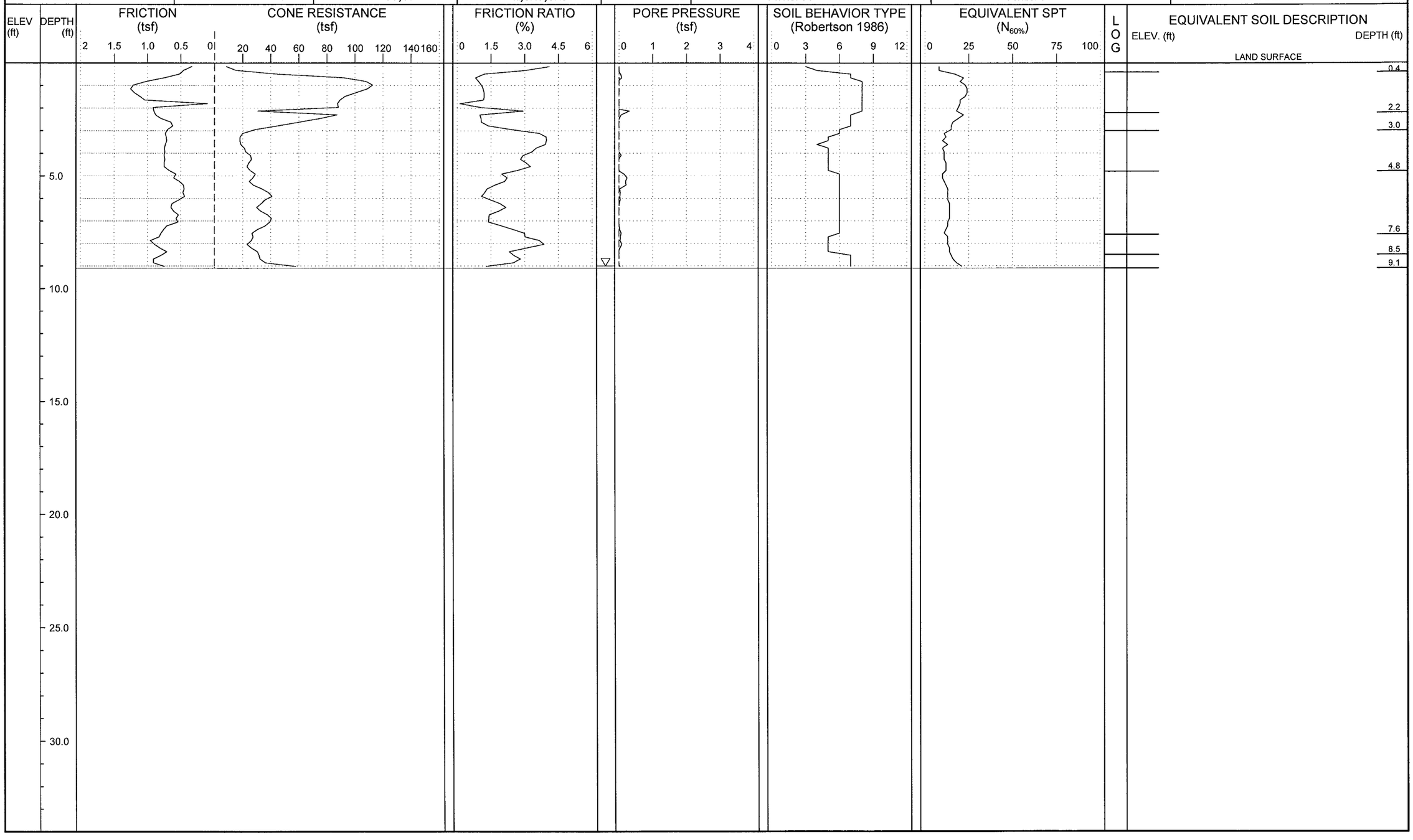


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	75
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3B-1225**	STATION: **12+15**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3B-**	0 HR. **9.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,074**	EASTING: **2,529,523**	24 HR. **FIAD**	START DATE: **11/29/11**	COMP. DATE: **11/29/11**	SURFACE WATER DEPTH: **N/A**

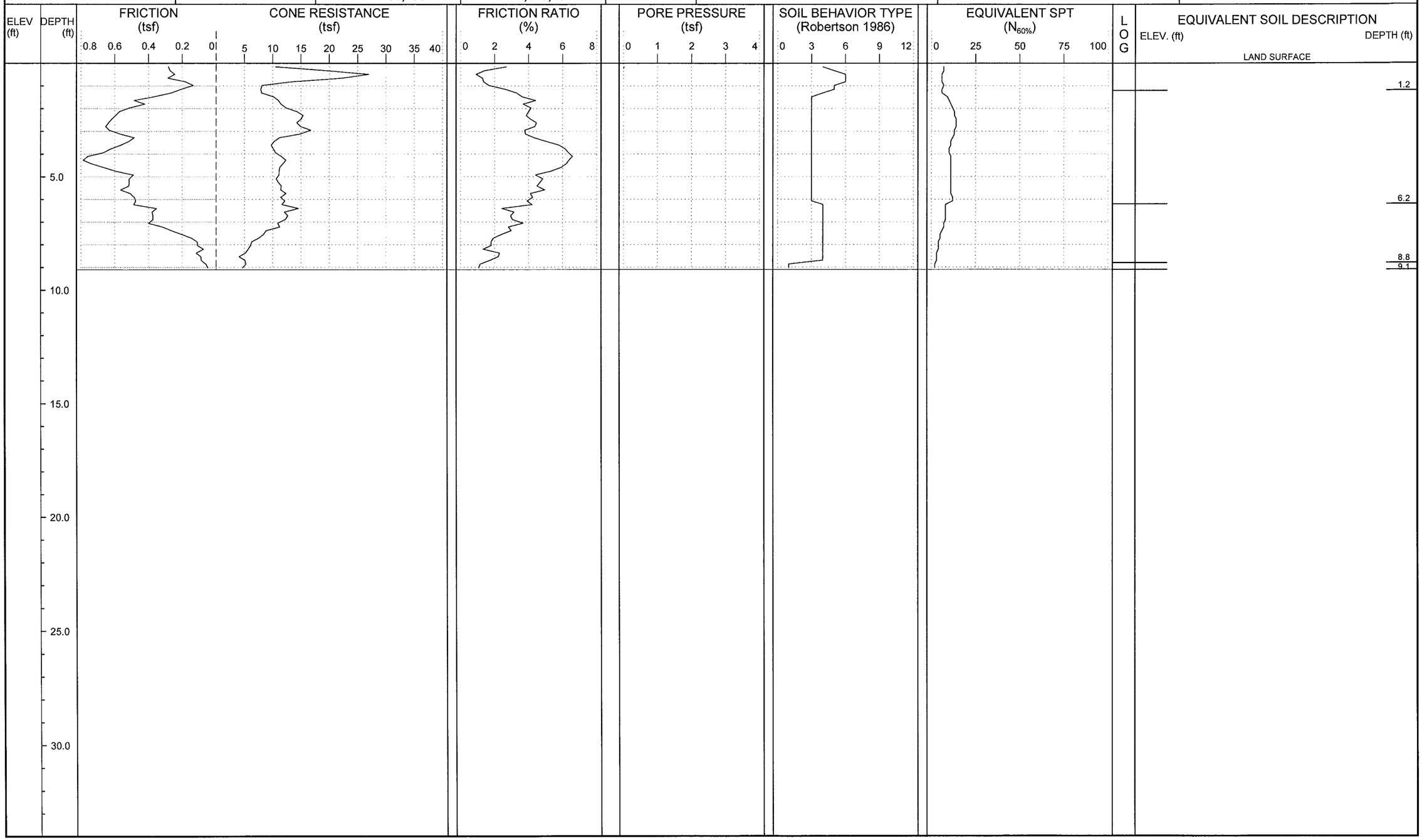


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	76
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3B-1448**	STATION: **14+48**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3B-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,106**	EASTING: **2,529,734**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

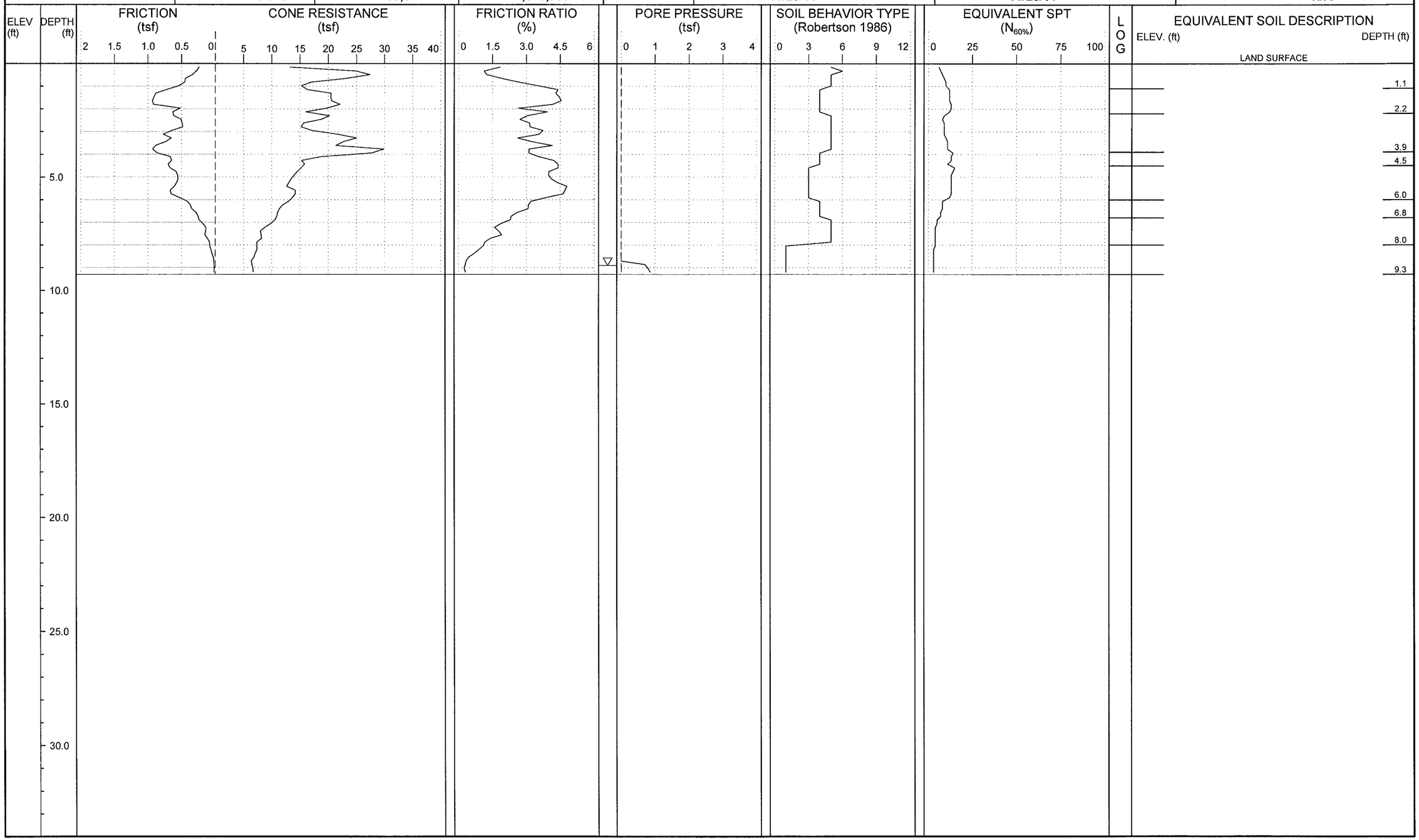


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	77
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3LPD-1550**	STATION: **15+50**	OFFSET: **35ft LT**	ALIGNMENT: **-Y3LPD-**	0 HR. **8.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **459,842**	EASTING: **2,529,757**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

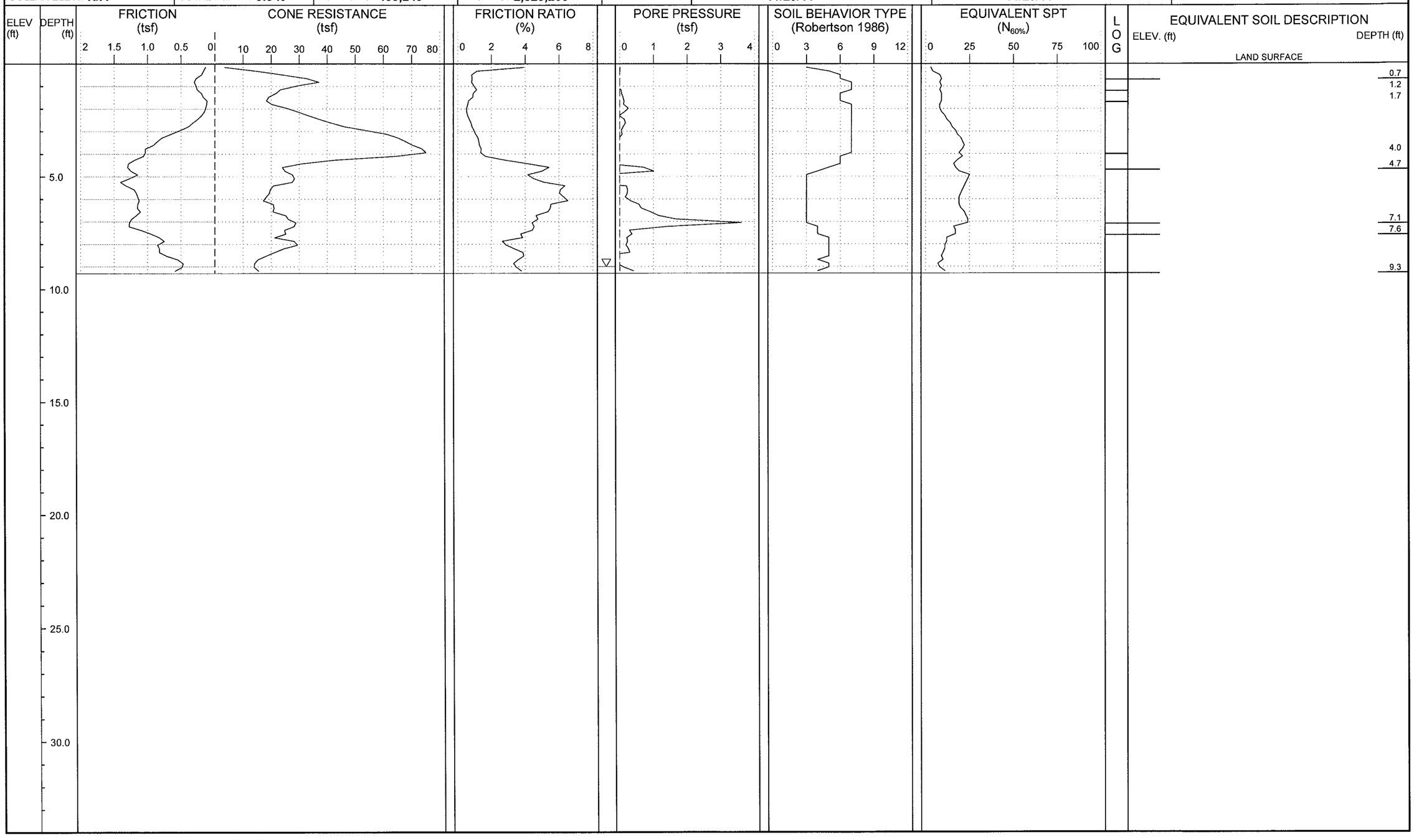


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	78
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3RPA-2000**	STATION: **20+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3RPA-**	0 HR. **9.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **460,249**	EASTING: **2,529,206**	24 HR. **FIAD**	START DATE: **11/29/11**	COMP. DATE: **11/29/11**	SURFACE WATER DEPTH: **N/A**



EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

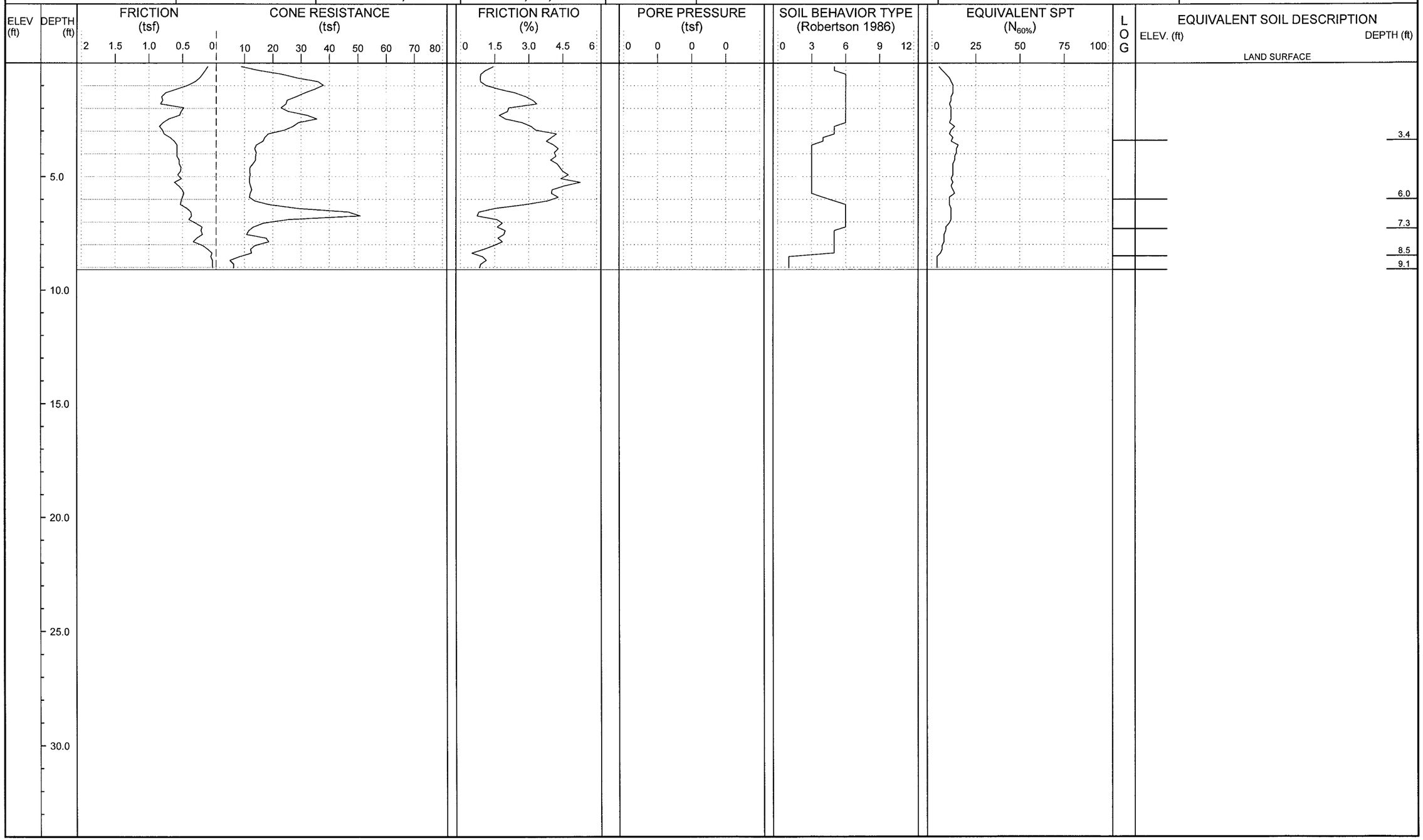
0.7
1.2
1.7
4.0
4.7
7.1
7.6
9.3

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	79
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3RPA-2700**	STATION: **27+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3RPA-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,760**	EASTING: **2,528,711**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

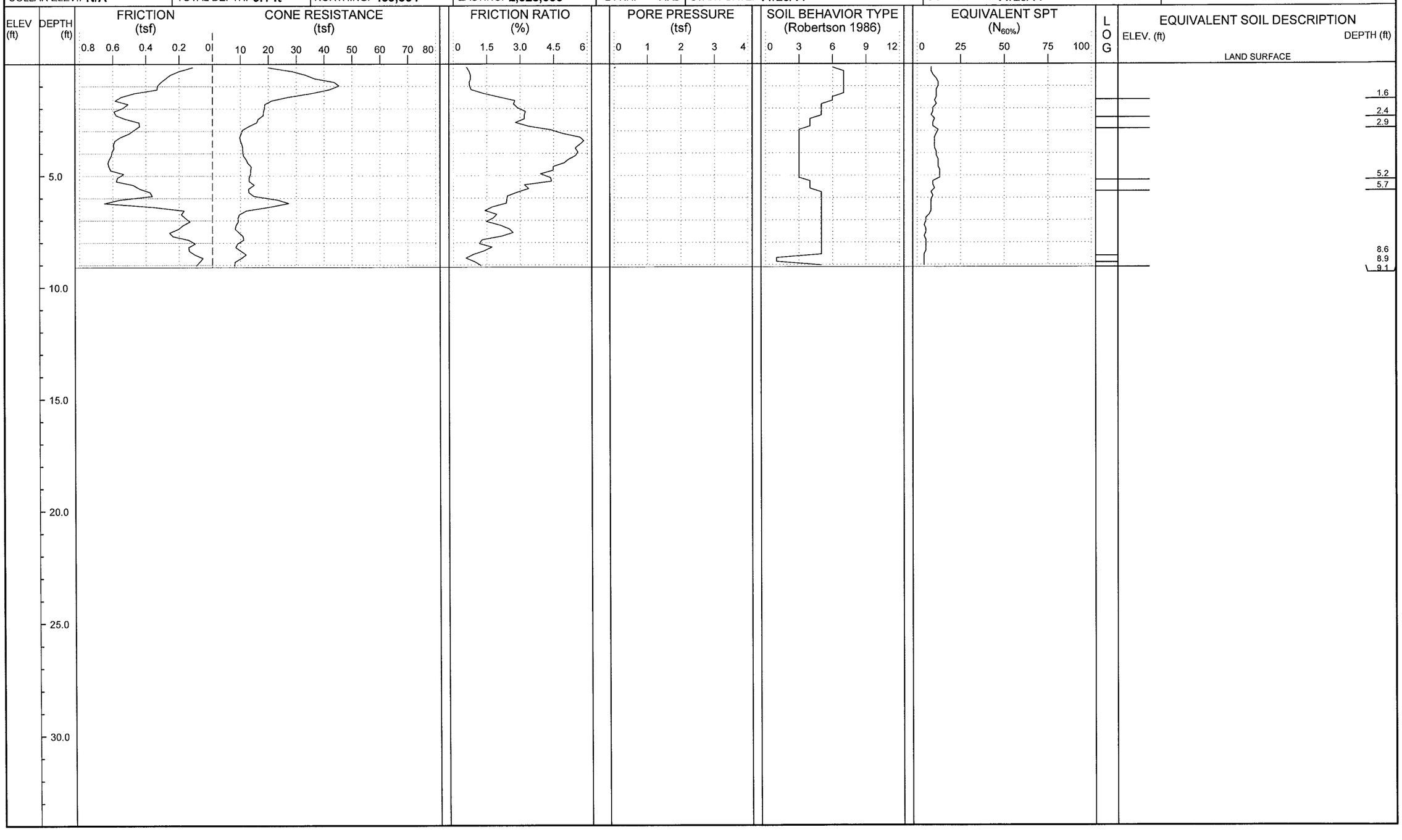


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	80
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **Y3RPA-2900**	STATION: **29+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3RPA-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,564**	EASTING: **2,528,686**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

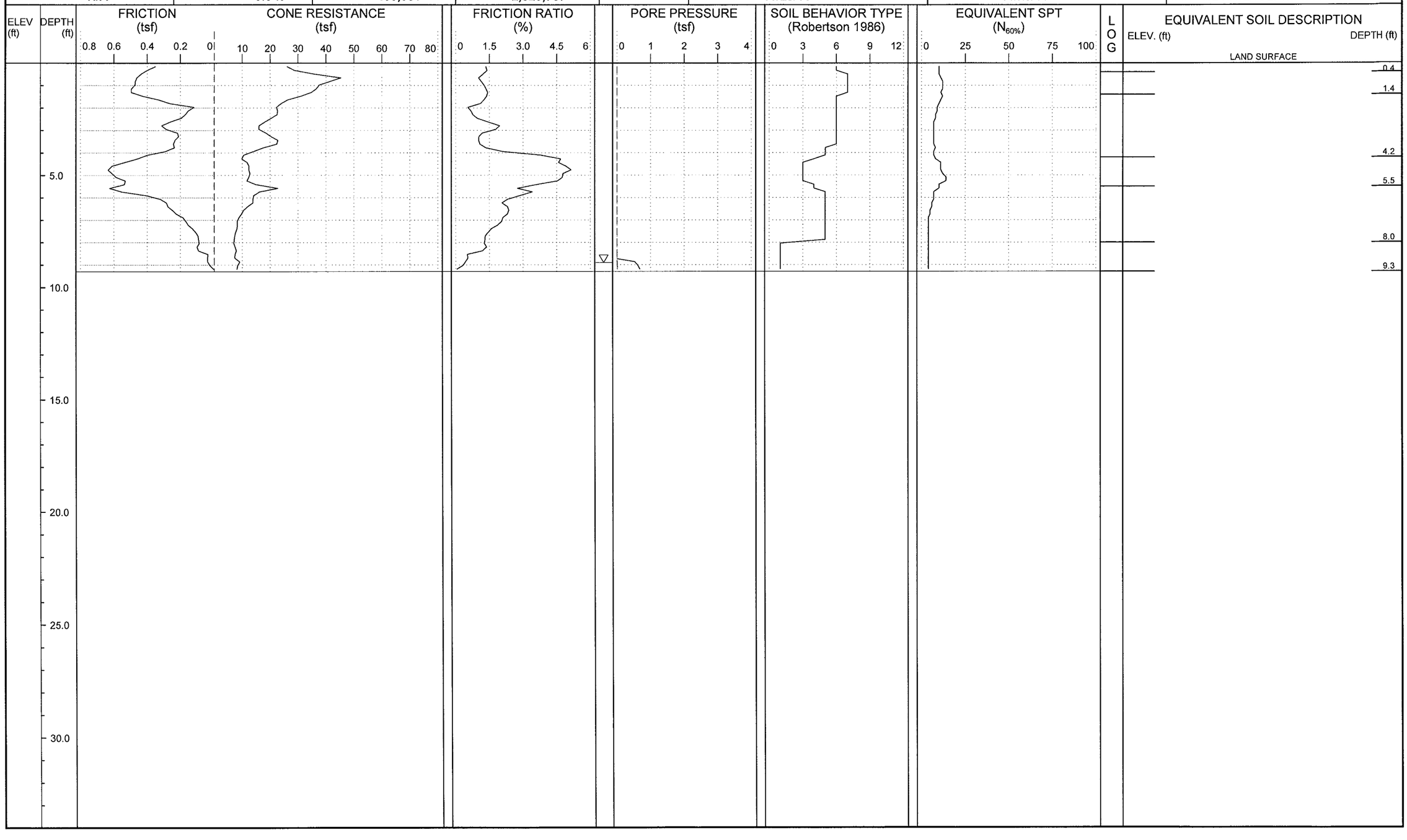


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	81
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3RPD-2000**	STATION: **20+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3RPD-**	0 HR. **8.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **460,051**	EASTING: **2,529,787**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

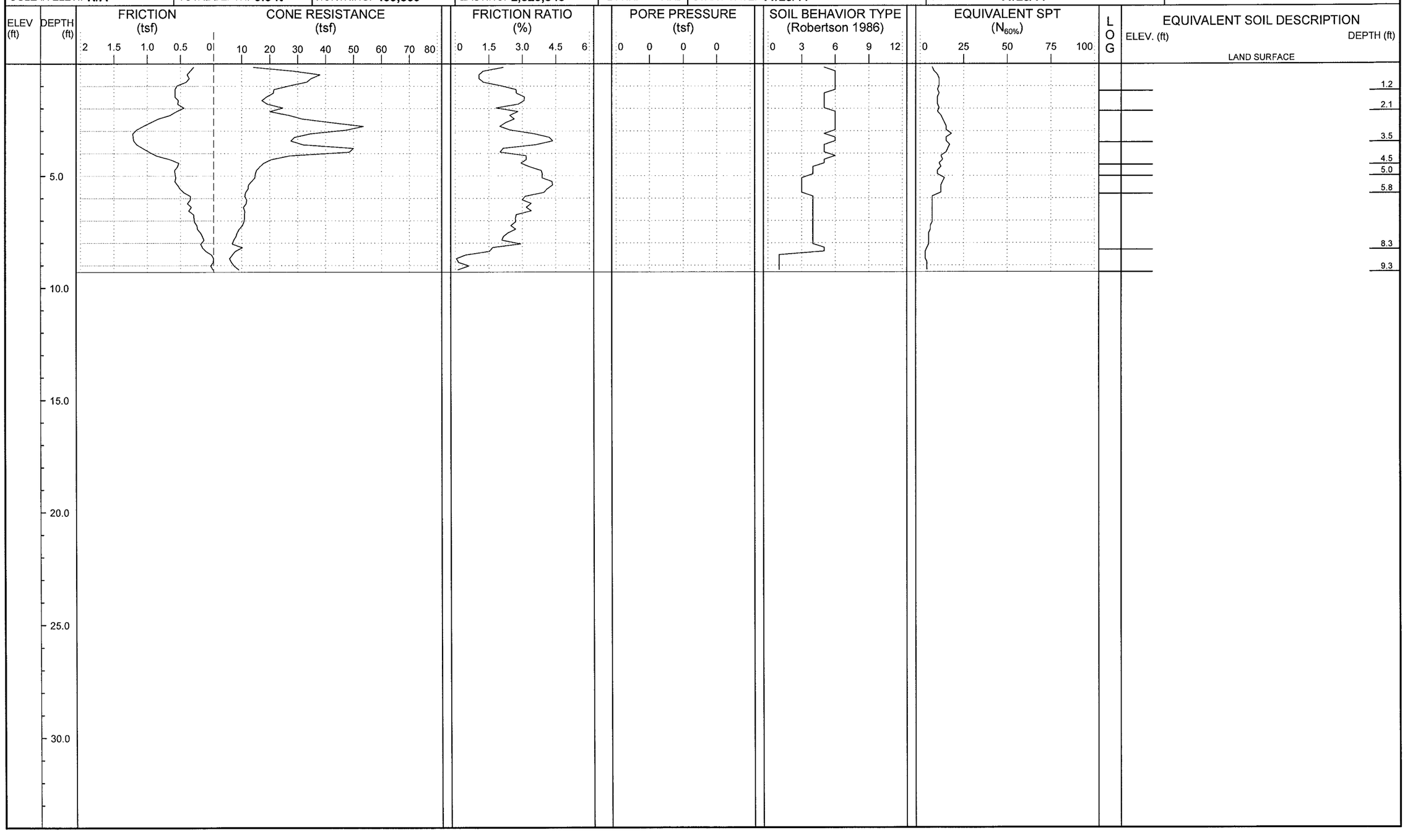
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.4
	1.4
	4.2
	5.5
	8.0
	9.3

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	82
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3RPD-2200**	STATION: **22+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y3RPD-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSG0867**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **459,859**	EASTING: **2,529,843**	24 HR. **FIAD**	START DATE: **11/28/11**	COMP. DATE: **11/28/11**	SURFACE WATER DEPTH: **N/A**

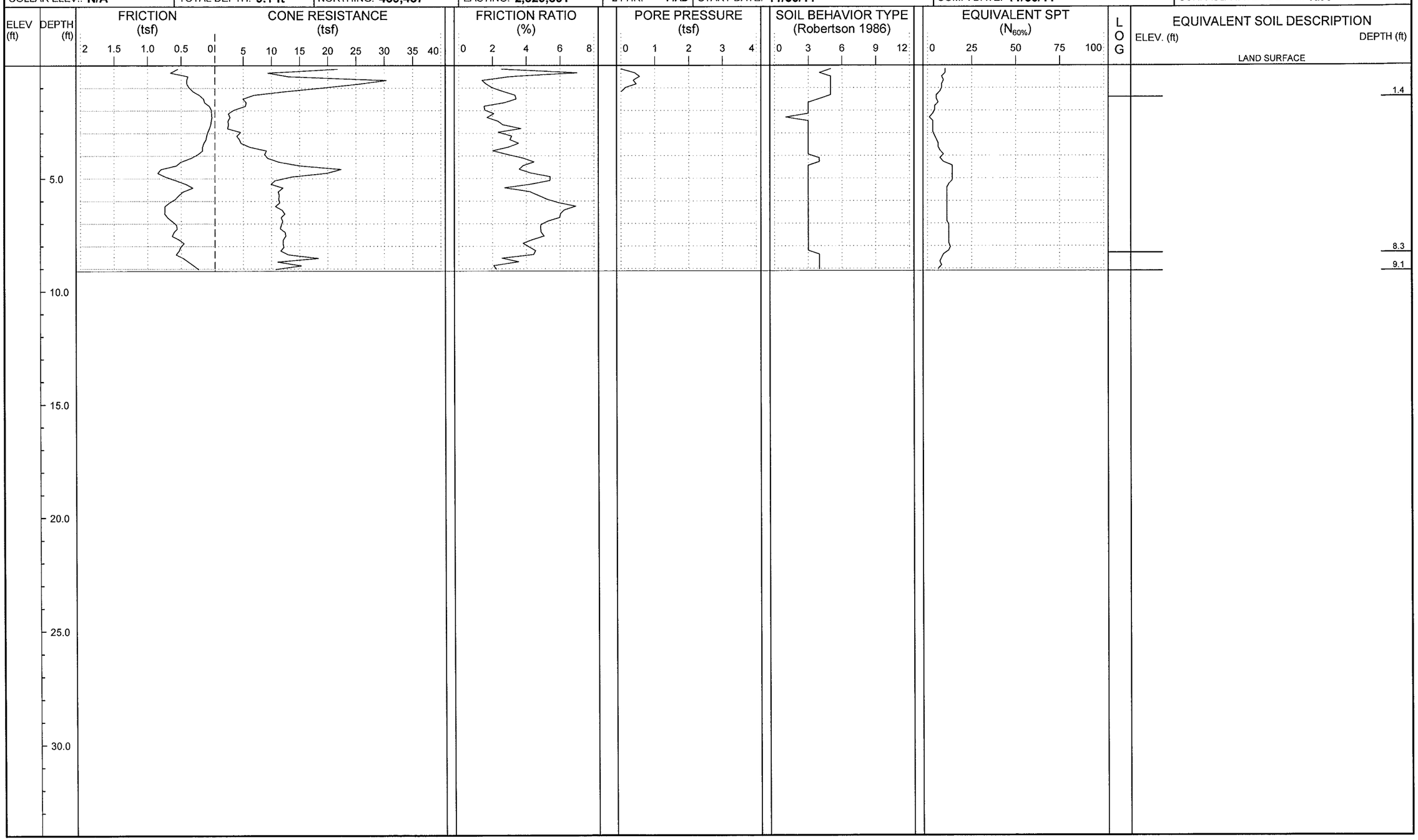


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	83
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y3RPD-2600**	STATION: **26+00**	OFFSET: **40ft LT**	ALIGNMENT: **-Y3RPD-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **459,457**	EASTING: **2,529,891**	24 HR. **FIAD**	START DATE: **11/30/11**	COMP. DATE: **11/30/11**	SURFACE WATER DEPTH: **N/A**

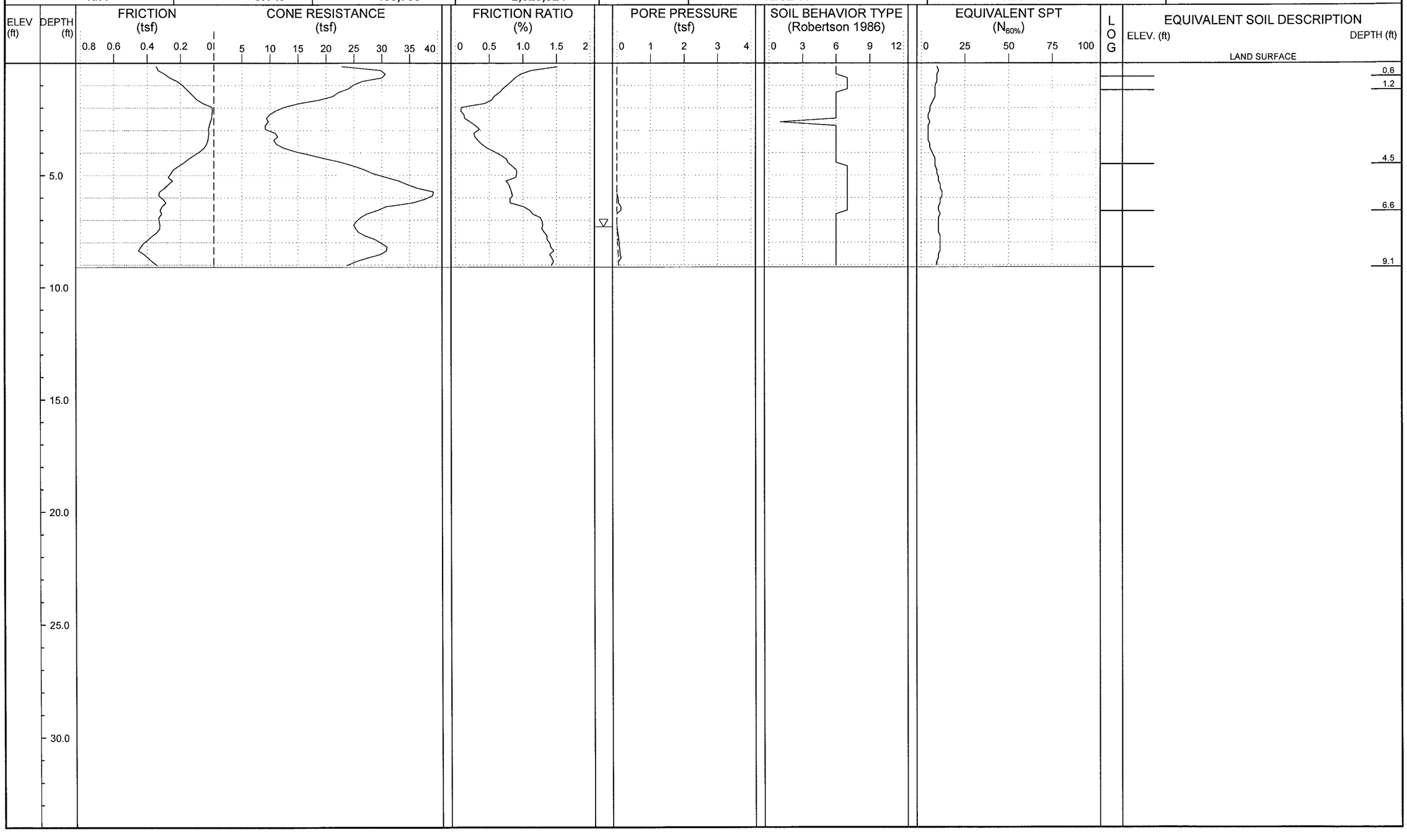


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	84
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y4-1950**	STATION: **19+50**	OFFSET: **20ft RT**	ALIGNMENT: **-Y4-**	0 HR. **7.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,763**	EASTING: **2,529,524**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**



LOG

EQUIVALENT SOIL DESCRIPTION

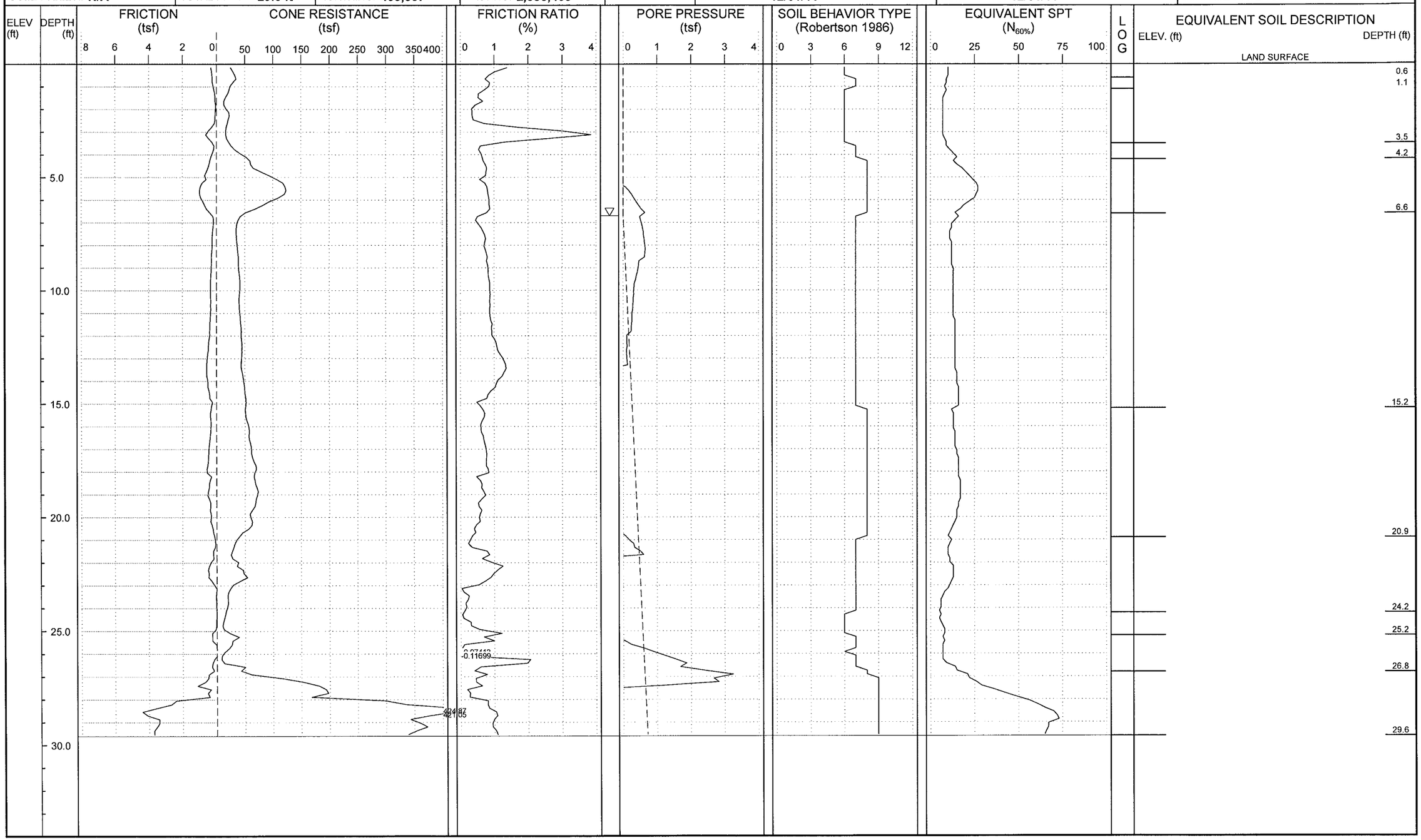
ELEV. (ft)	DEPTH (ft)
LAND SURFACE	
	0.6
	1.2
	4.5
	6.6
	9.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	85
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y4-3000**	STATION: **30+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y4-**	0 HR. **6.7**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **29.6 ft**	NORTHING: **463,307**	EASTING: **2,530,463**	24 HR. **FIAD**	START DATE: **12/01/11**	COMP. DATE: **12/01/11**	SURFACE WATER DEPTH: **N/A**

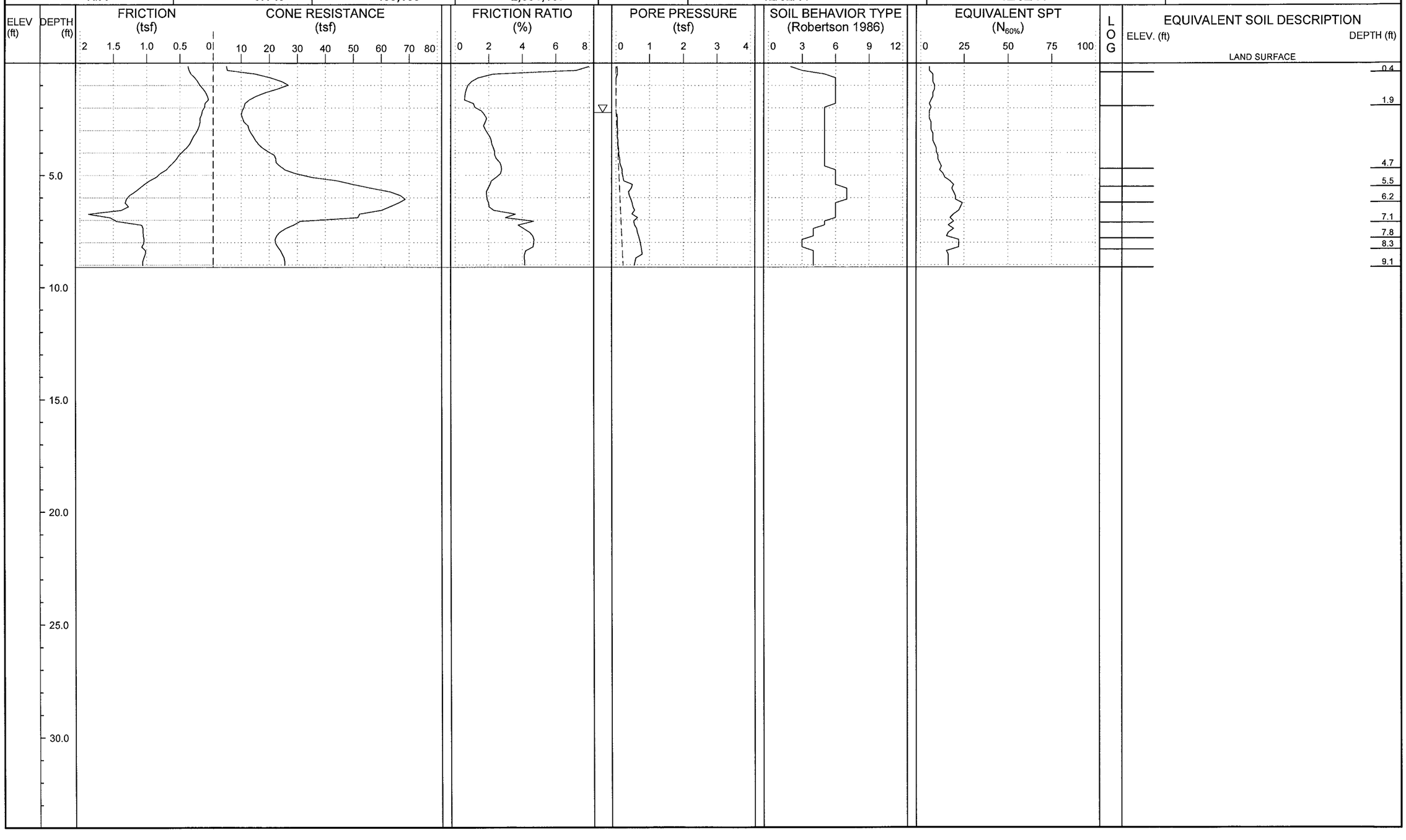


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	86
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **Y4-3700**	STATION: **37+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y4-**	0 HR. **2.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,139**	EASTING: **2,531,137**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

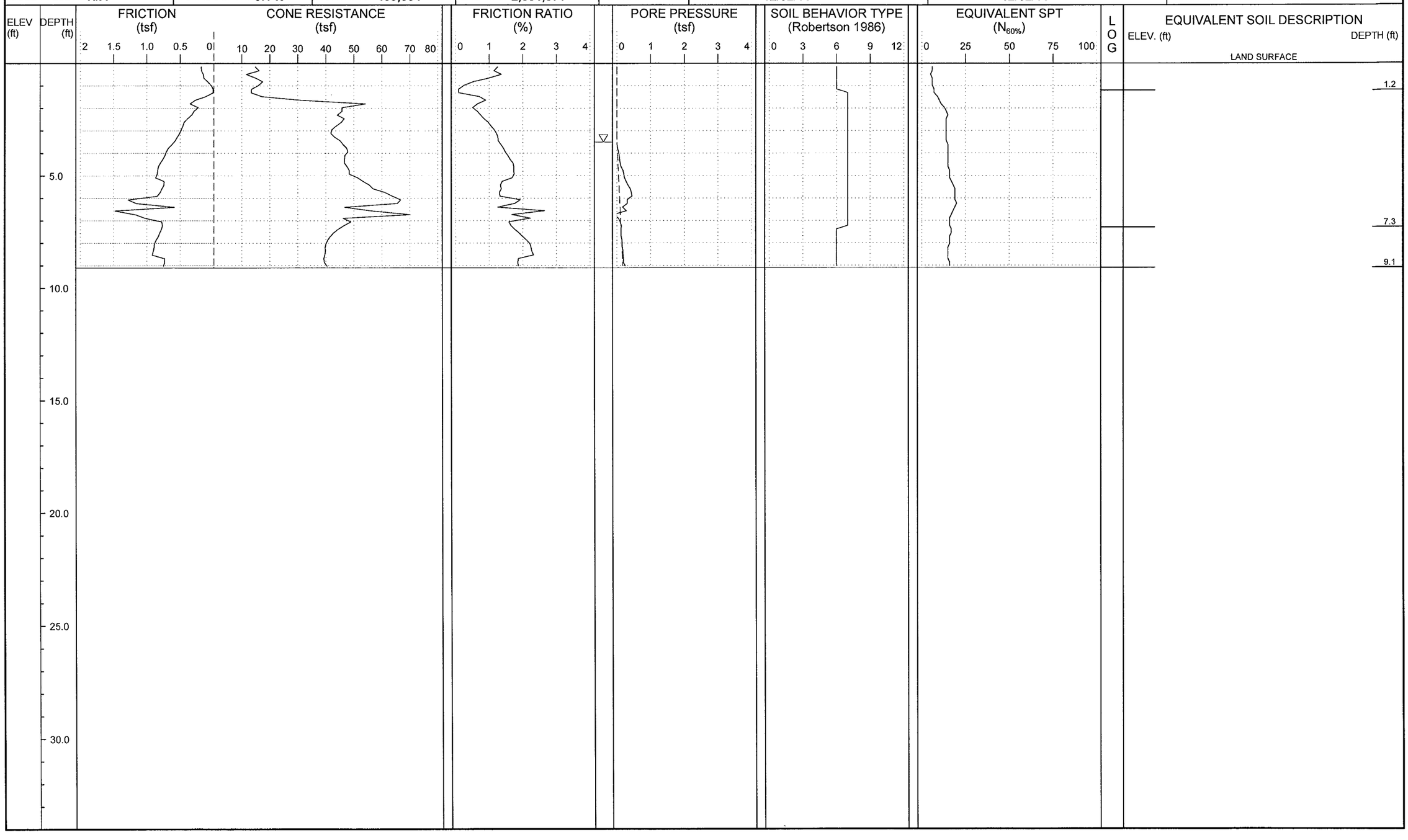


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	87
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y4-3950**	STATION: **39+50**	OFFSET: **0ft CL**	ALIGNMENT: **-Y4-**	0 HR. **3.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **463,054**	EASTING: **2,531,371**	24 HR. **FIAD**	START DATE: **12/02/11**	COMP. DATE: **12/02/11**	SURFACE WATER DEPTH: **N/A**

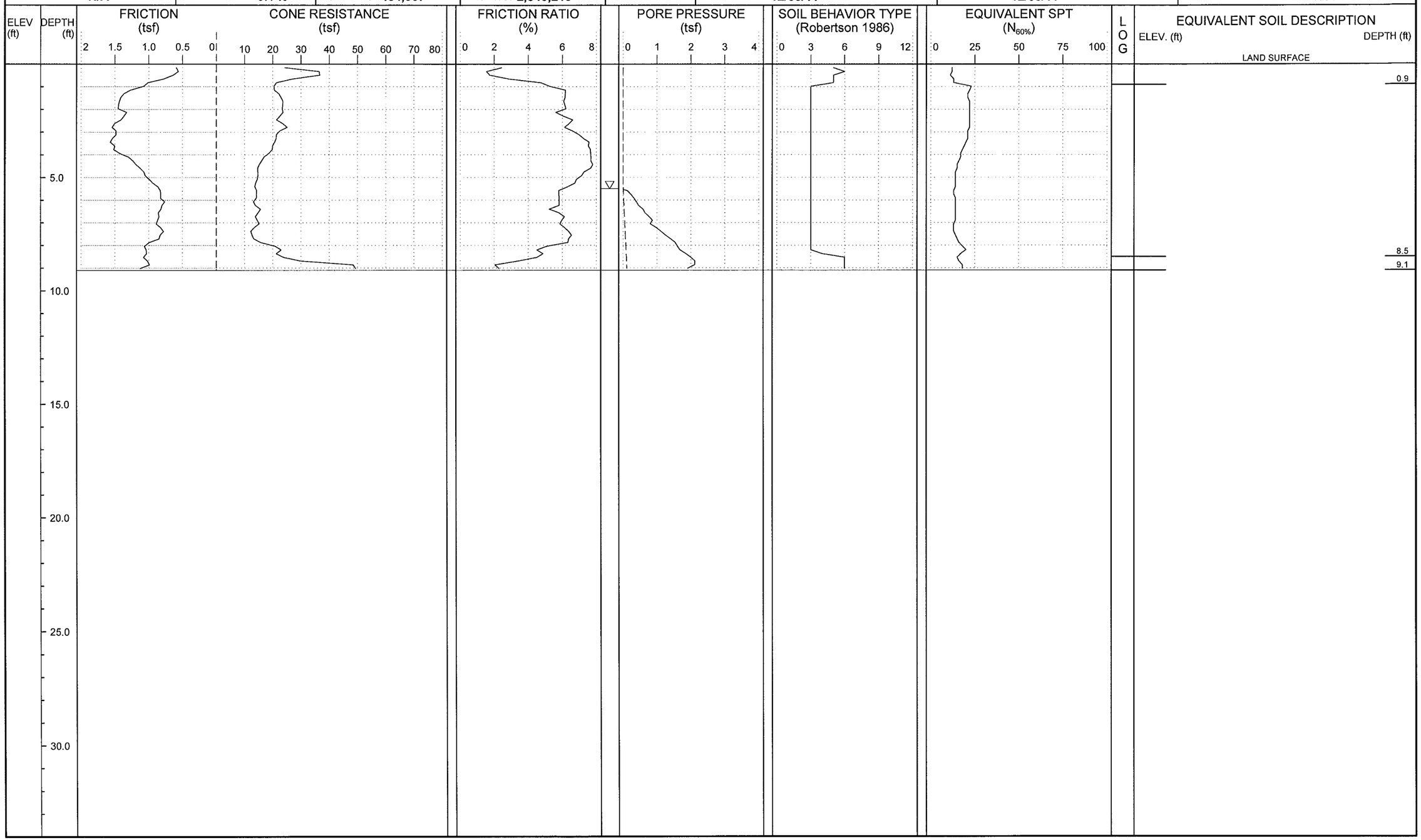


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	88
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8-3150**	STATION: **31+50**	OFFSET: **70ft LT**	ALIGNMENT: **-Y8-**	0 HR. **5.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,667**	EASTING: **2,540,219**	24 HR. **FIAD**	START DATE: **12/05/11**	COMP. DATE: **12/05/11**	SURFACE WATER DEPTH: **N/A**

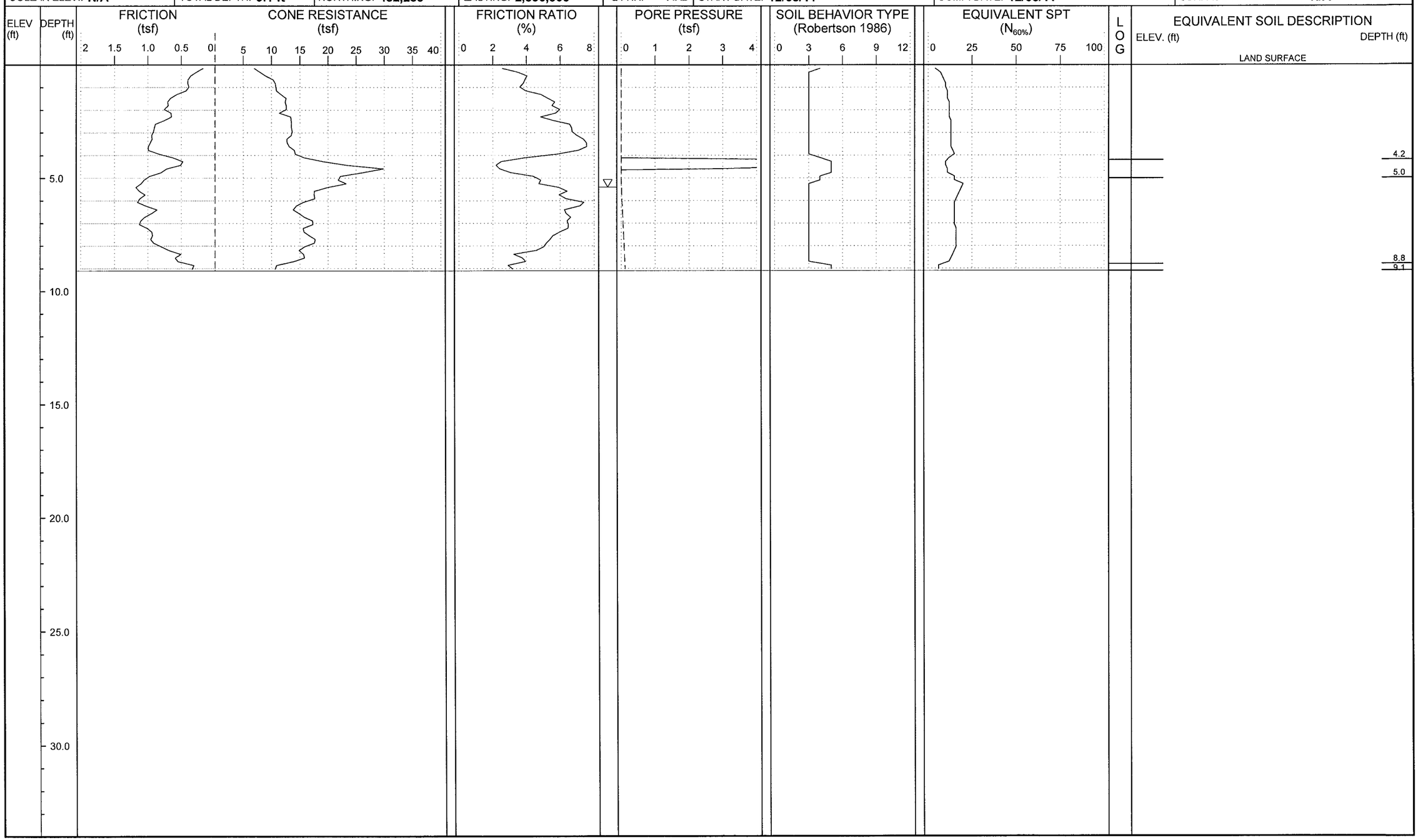


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	89
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-1300**	STATION: **13+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **5.4**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **482,283**	EASTING: **2,536,506**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

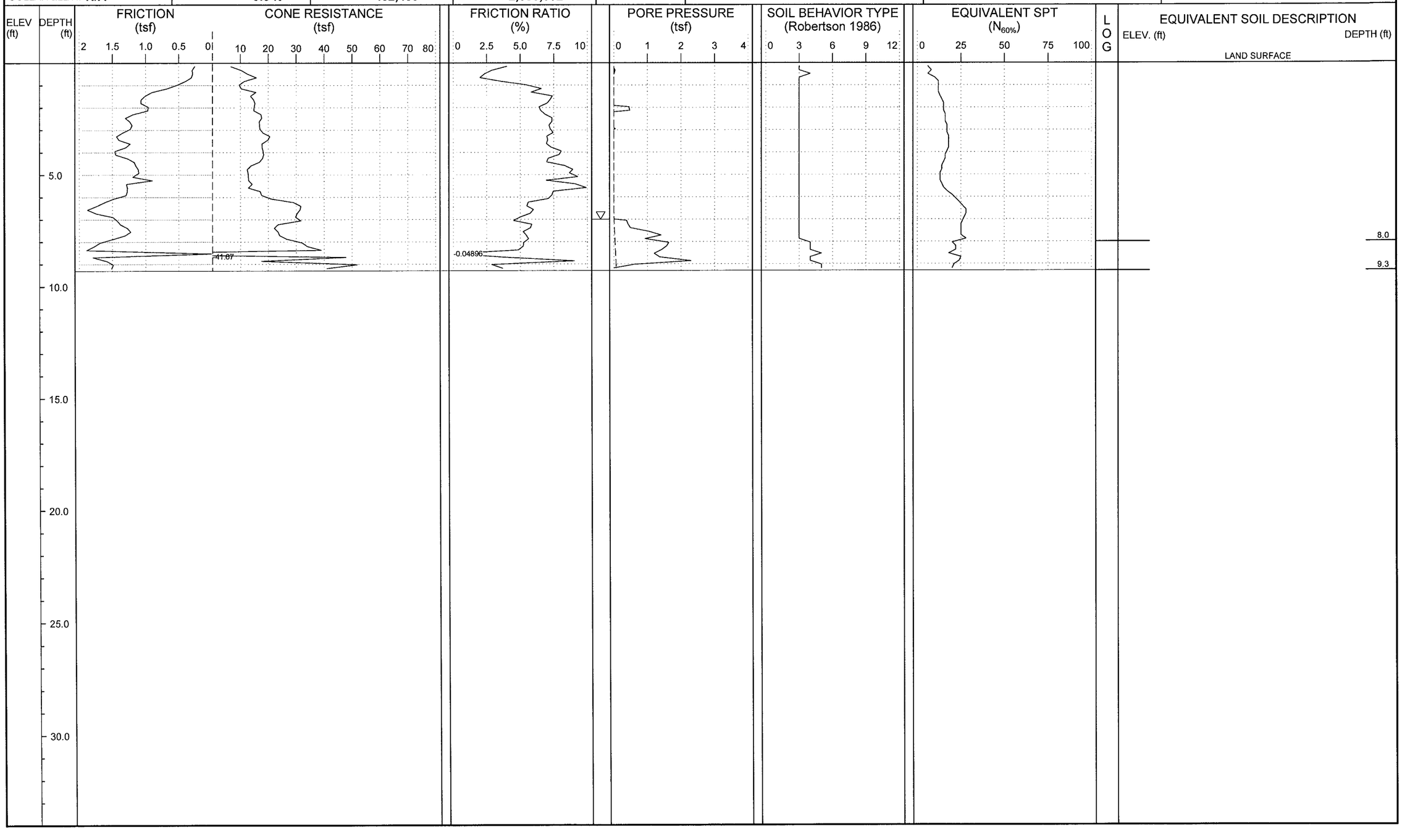


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	90
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **Y8A-1500**	STATION: **15+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **482,439**	EASTING: **2,536,632**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

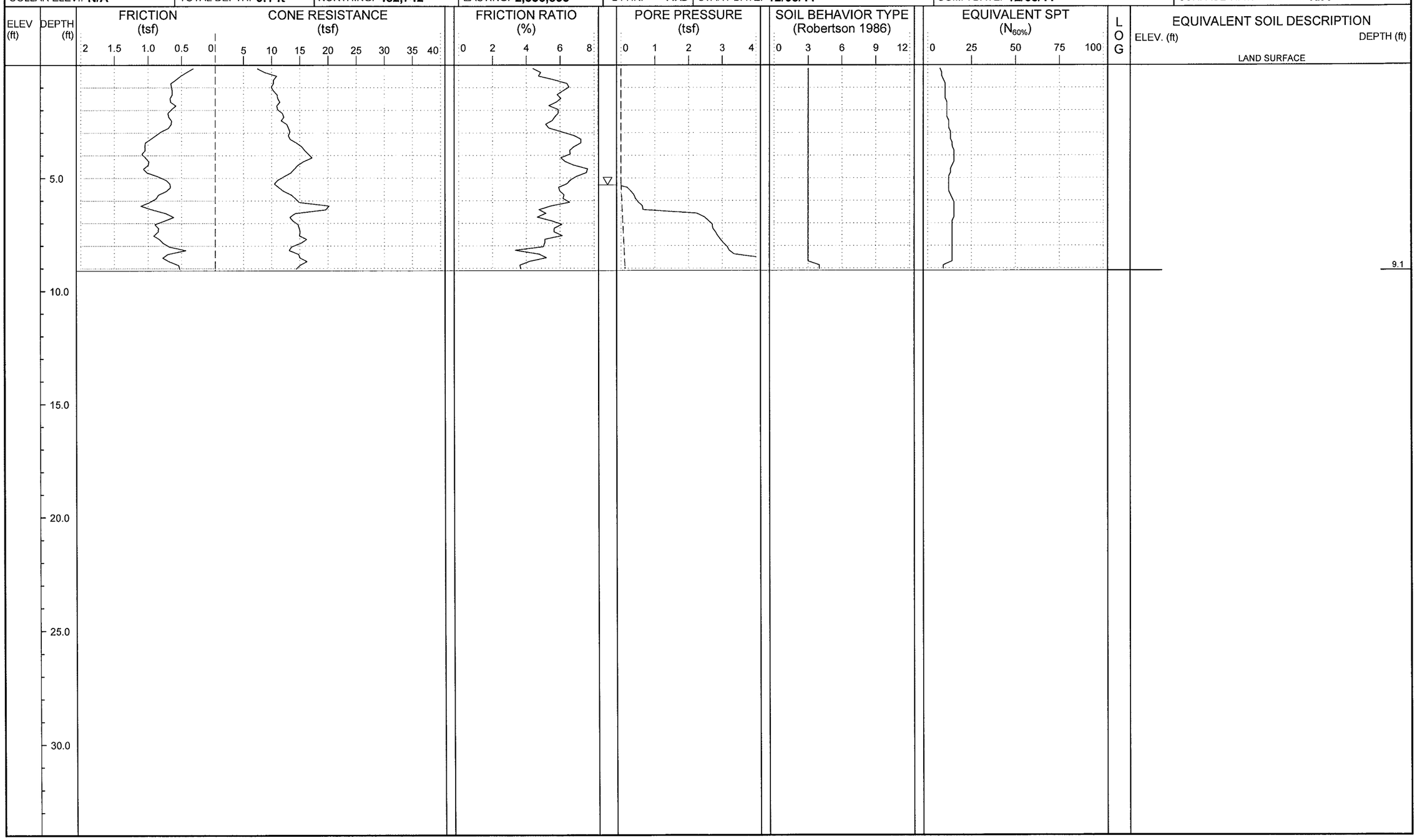


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	91
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-1900**	STATION: **19+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **5.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **482,742**	EASTING: **2,536,893**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

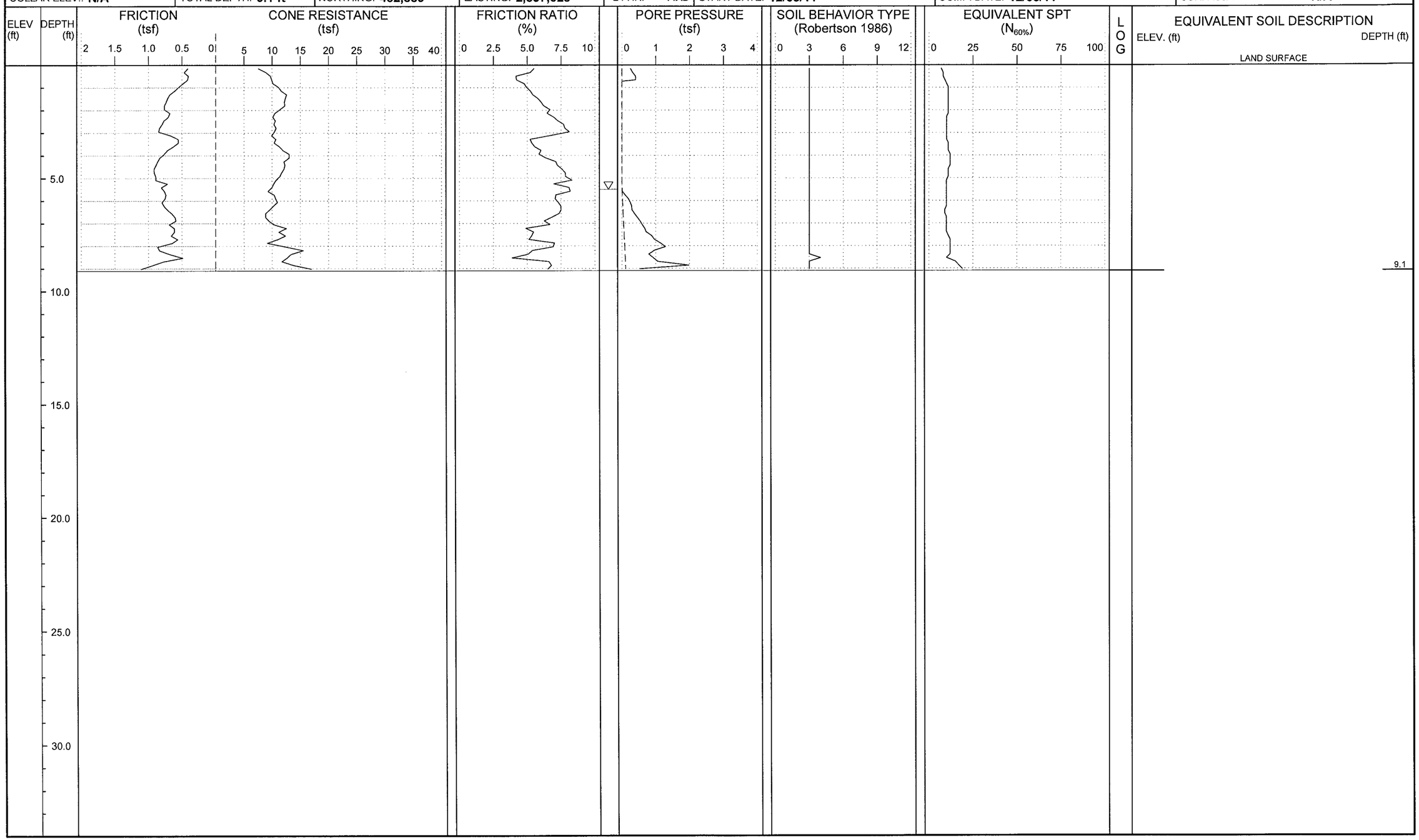


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	92
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-2100**	STATION: **21+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **5.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **482,889**	EASTING: **2,537,028**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

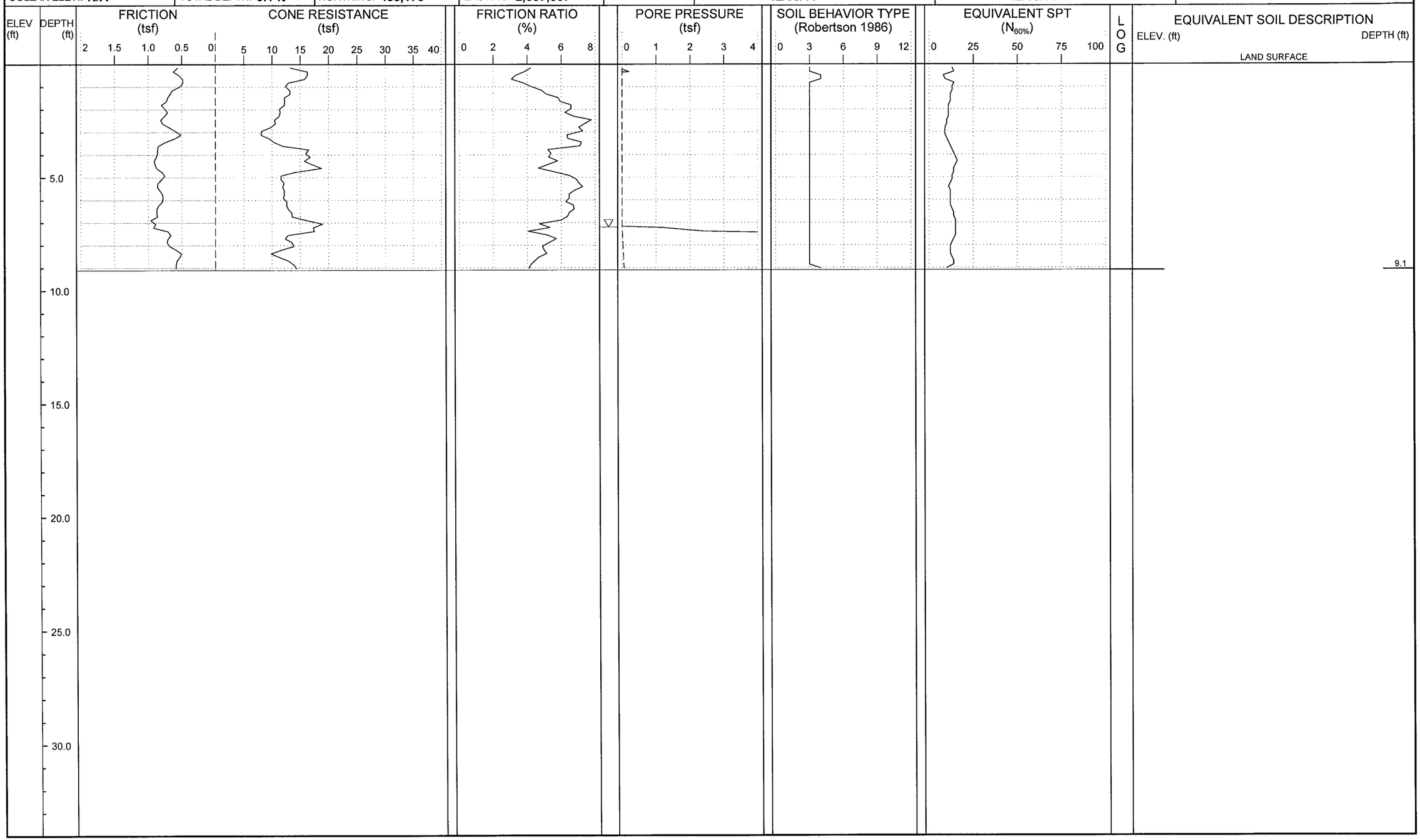


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	93
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-2500**	STATION: **25+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.2**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **483,176**	EASTING: **2,537,307**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

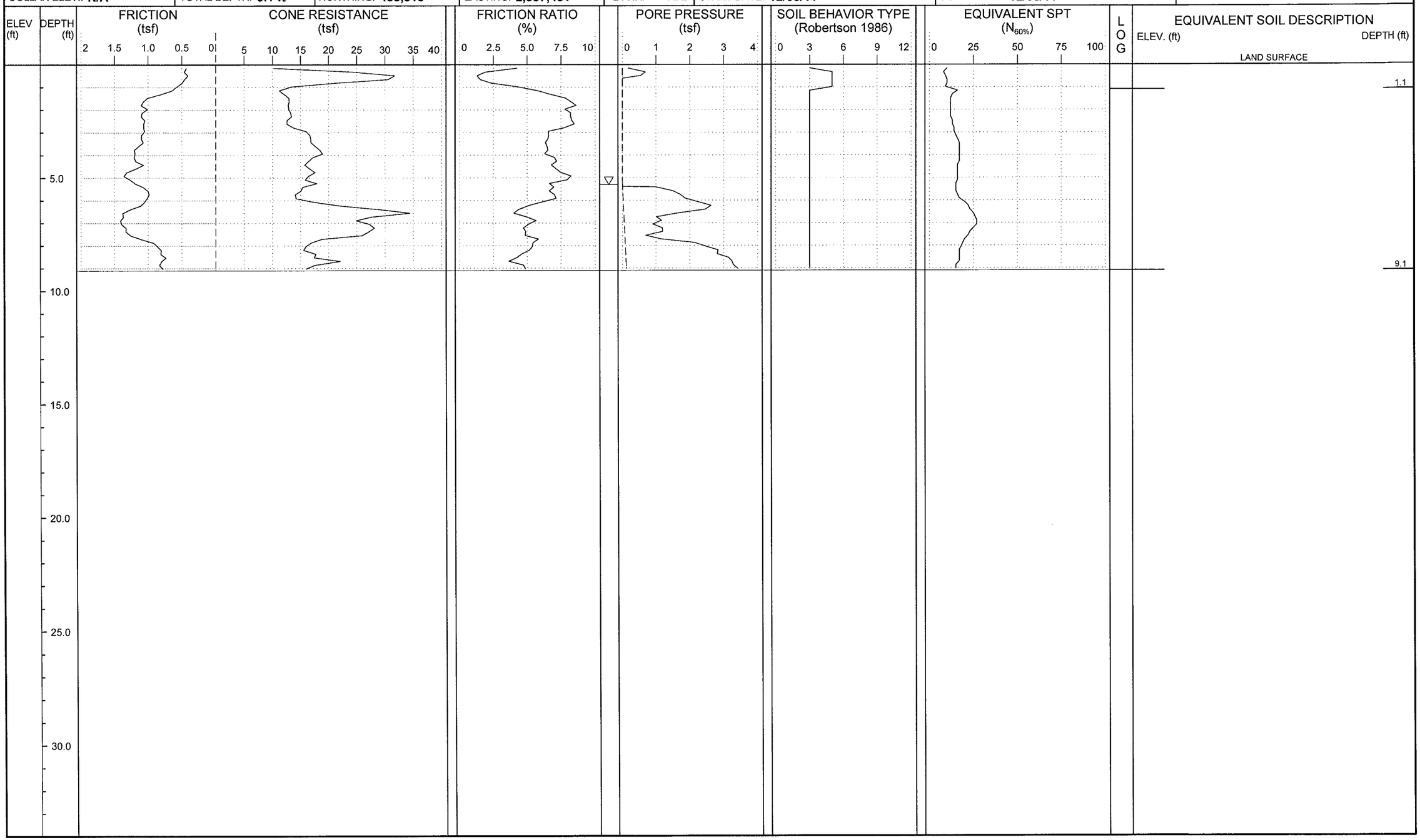


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	94
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-2700**	STATION: **27+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **5.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **483,315**	EASTING: **2,537,451**	24 HR. **FIAD**	START DATE: **12/08/11**	COMP. DATE: **12/08/11**	SURFACE WATER DEPTH: **N/A**

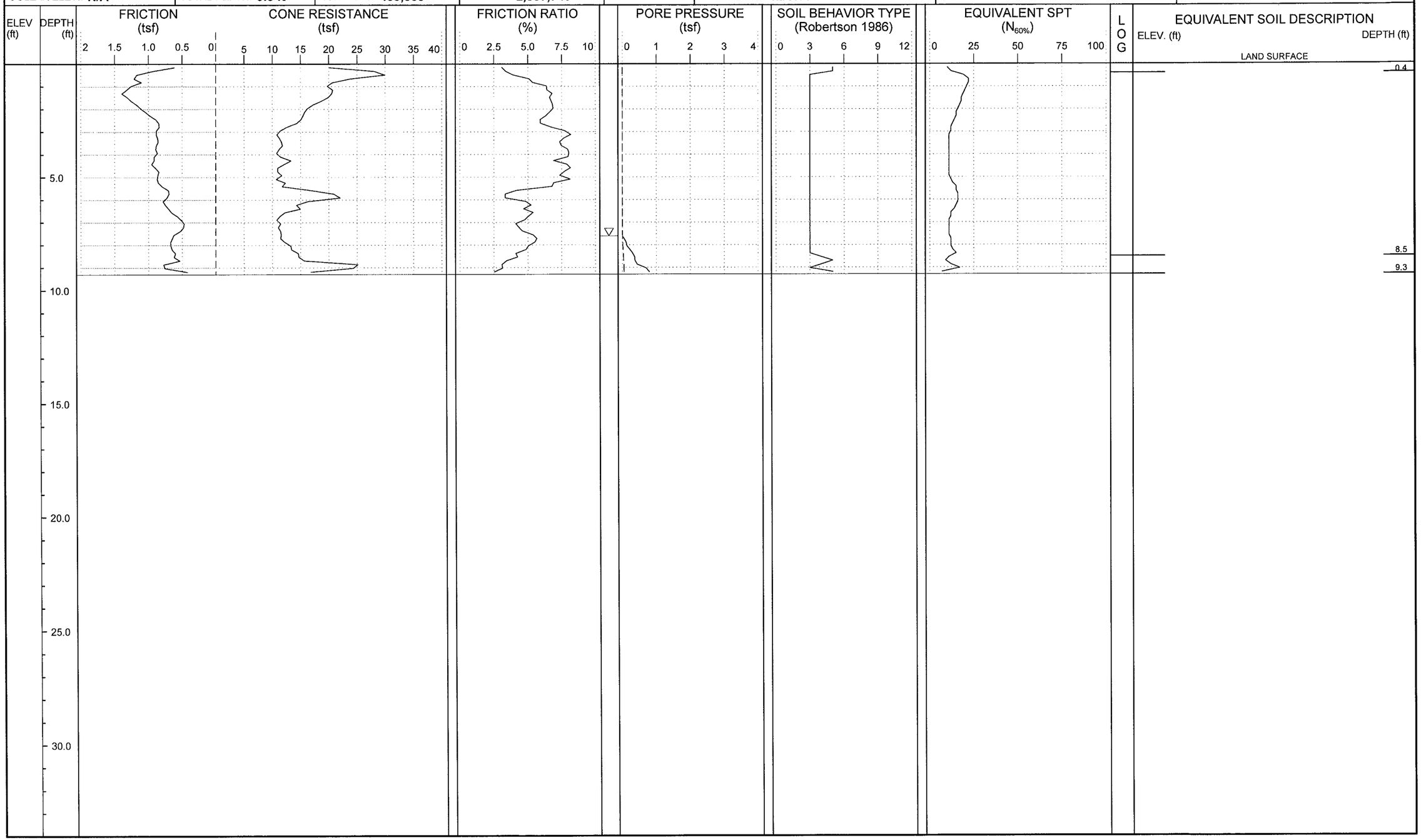


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	95
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-3100**	STATION: **31+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.6**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **483,585**	EASTING: **2,537,746**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

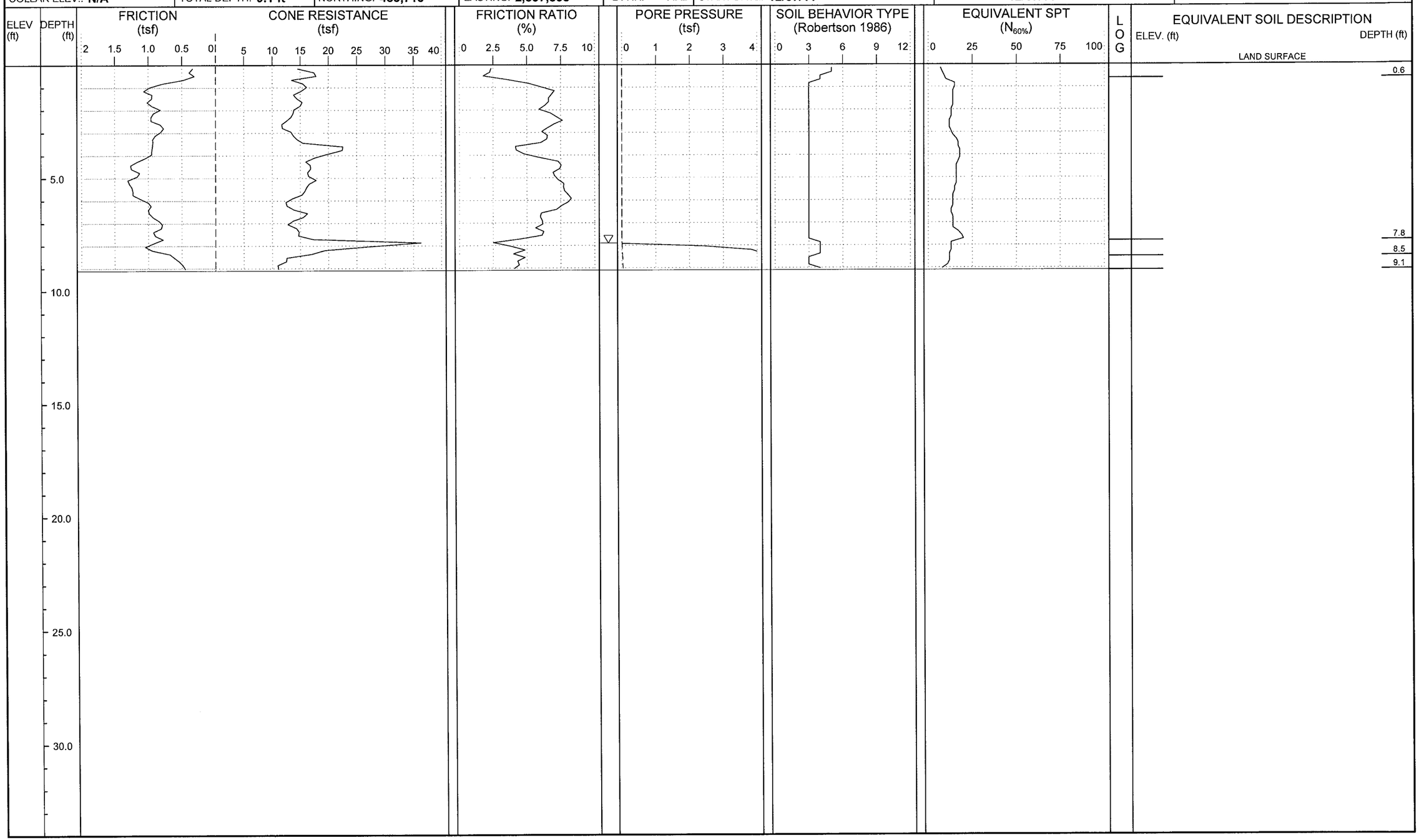


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	96
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-3300**	STATION: **33+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **483,715**	EASTING: **2,537,898**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

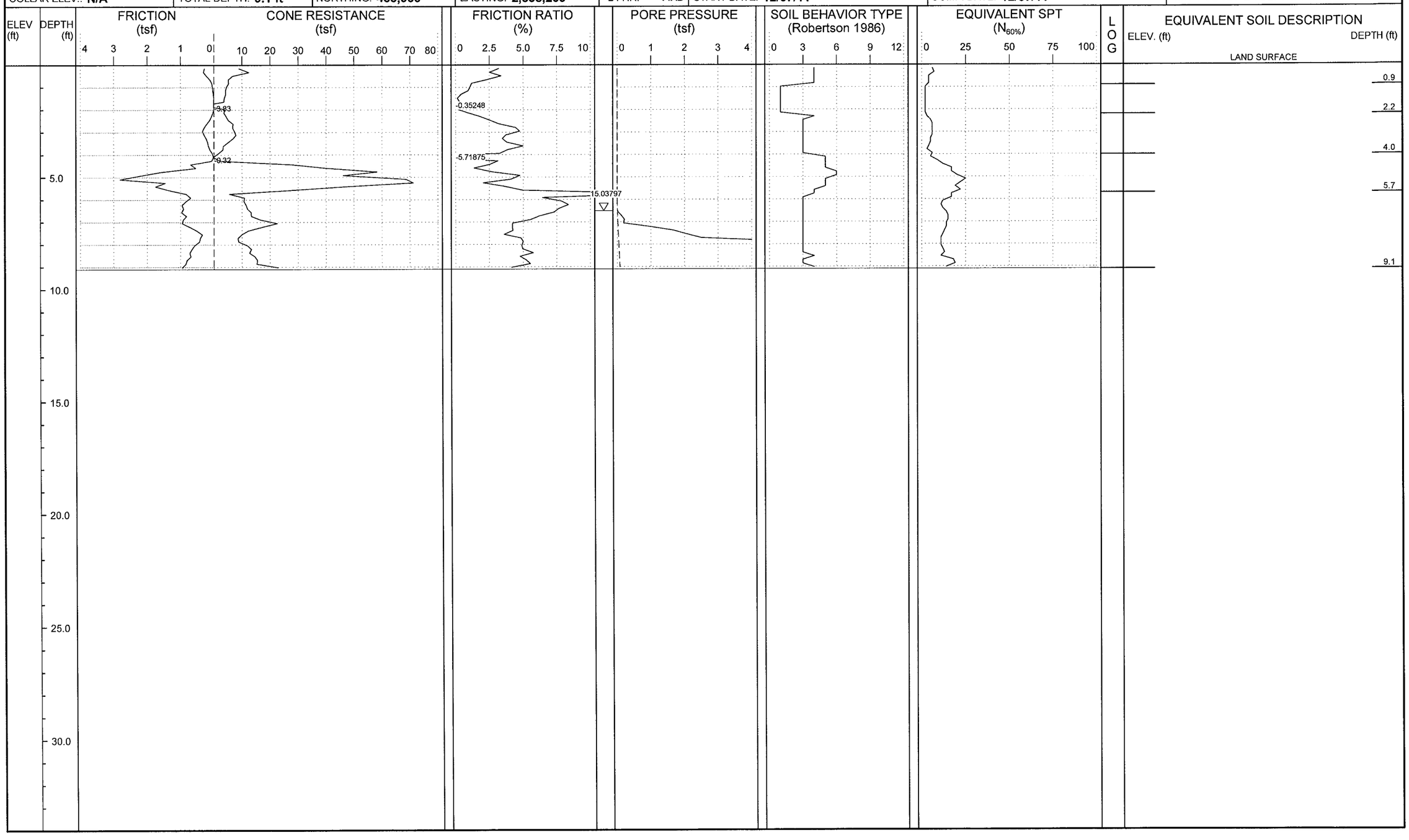


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	97
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-3700**	STATION: **37+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **6.5**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **483,966**	EASTING: **2,538,209**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

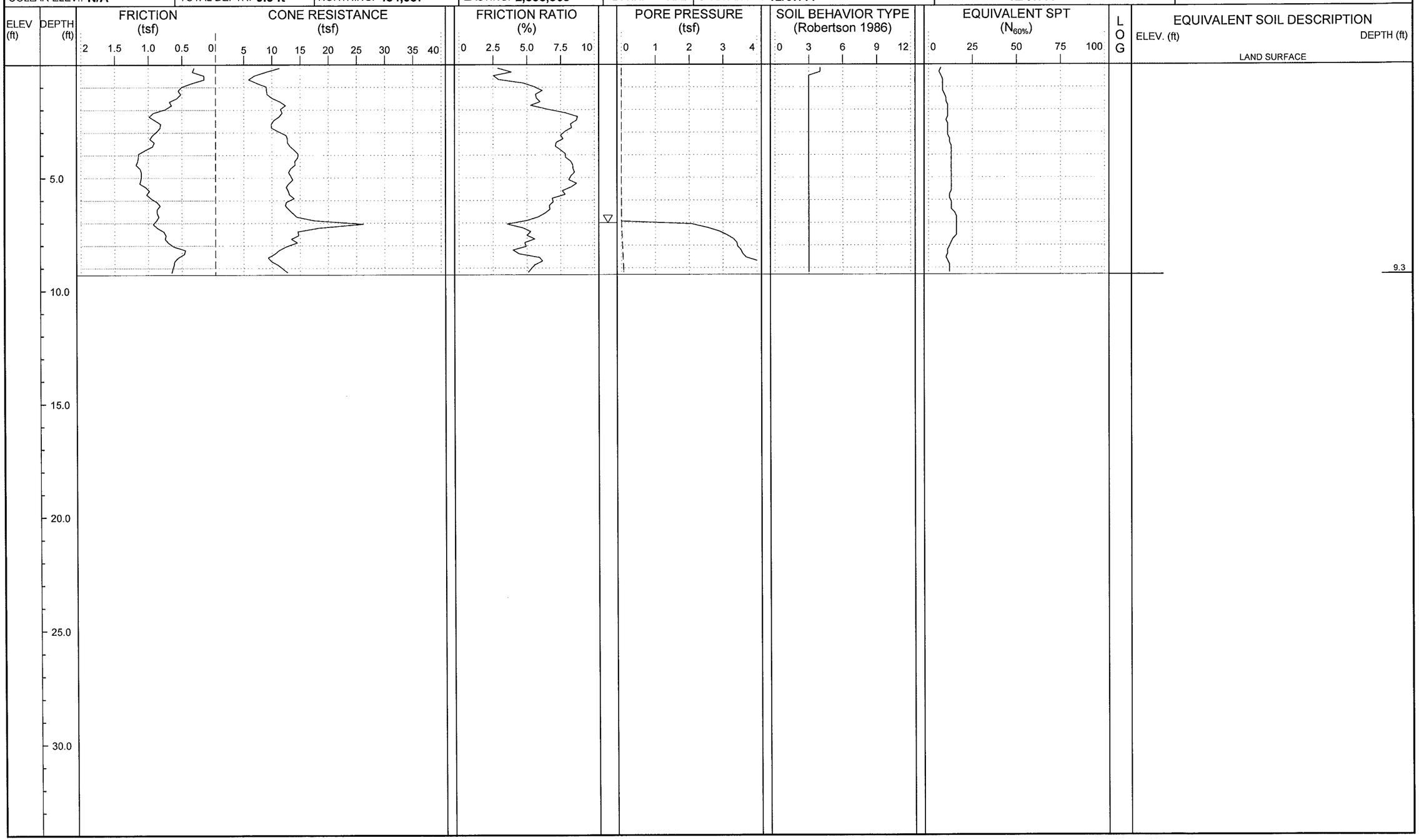


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	98
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **Y8A-3900**	STATION: **39+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **484,087**	EASTING: **2,538,368**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

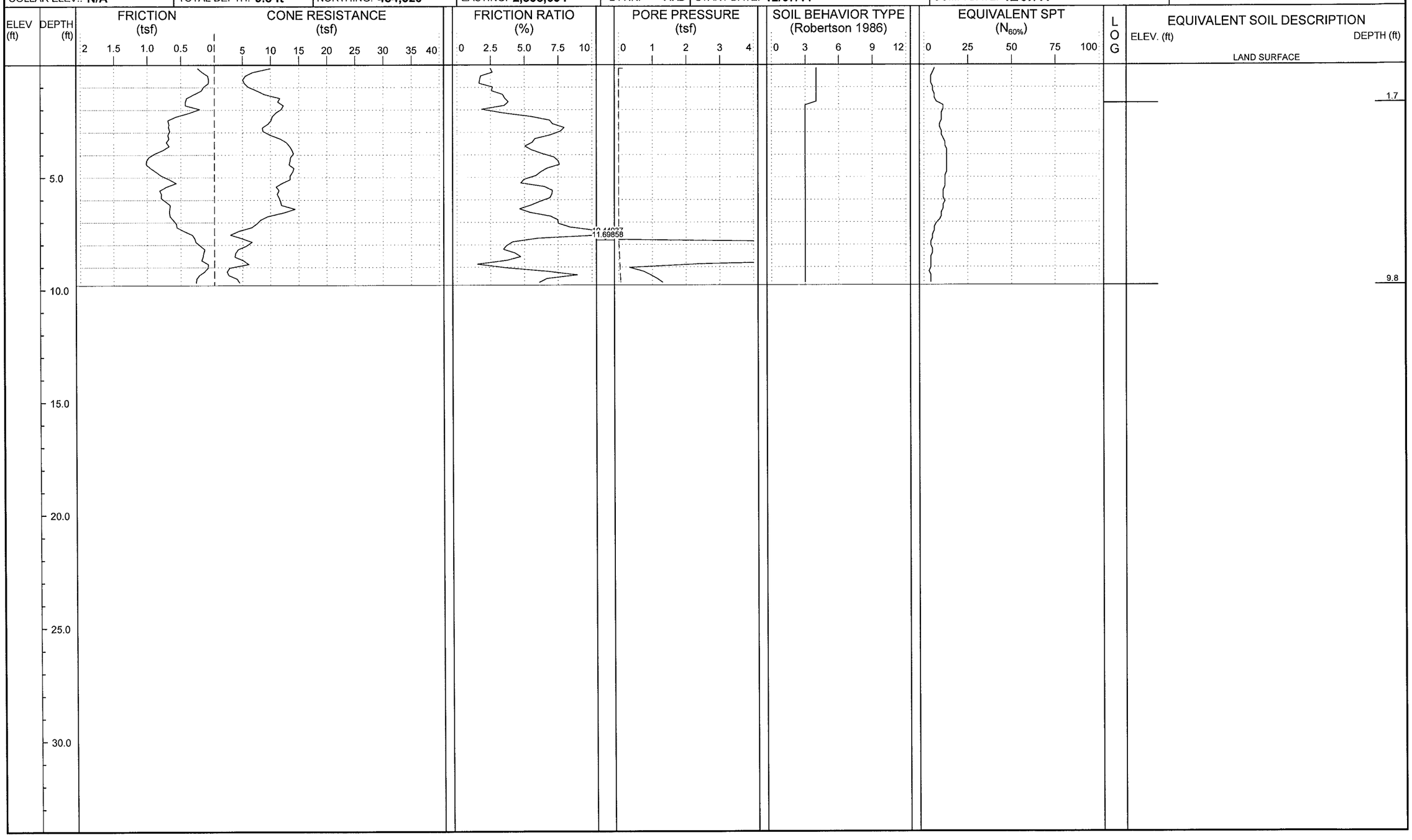


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	99
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-4300**	STATION: **43+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **7.8**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.8 ft**	NORTHING: **484,320**	EASTING: **2,538,694**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

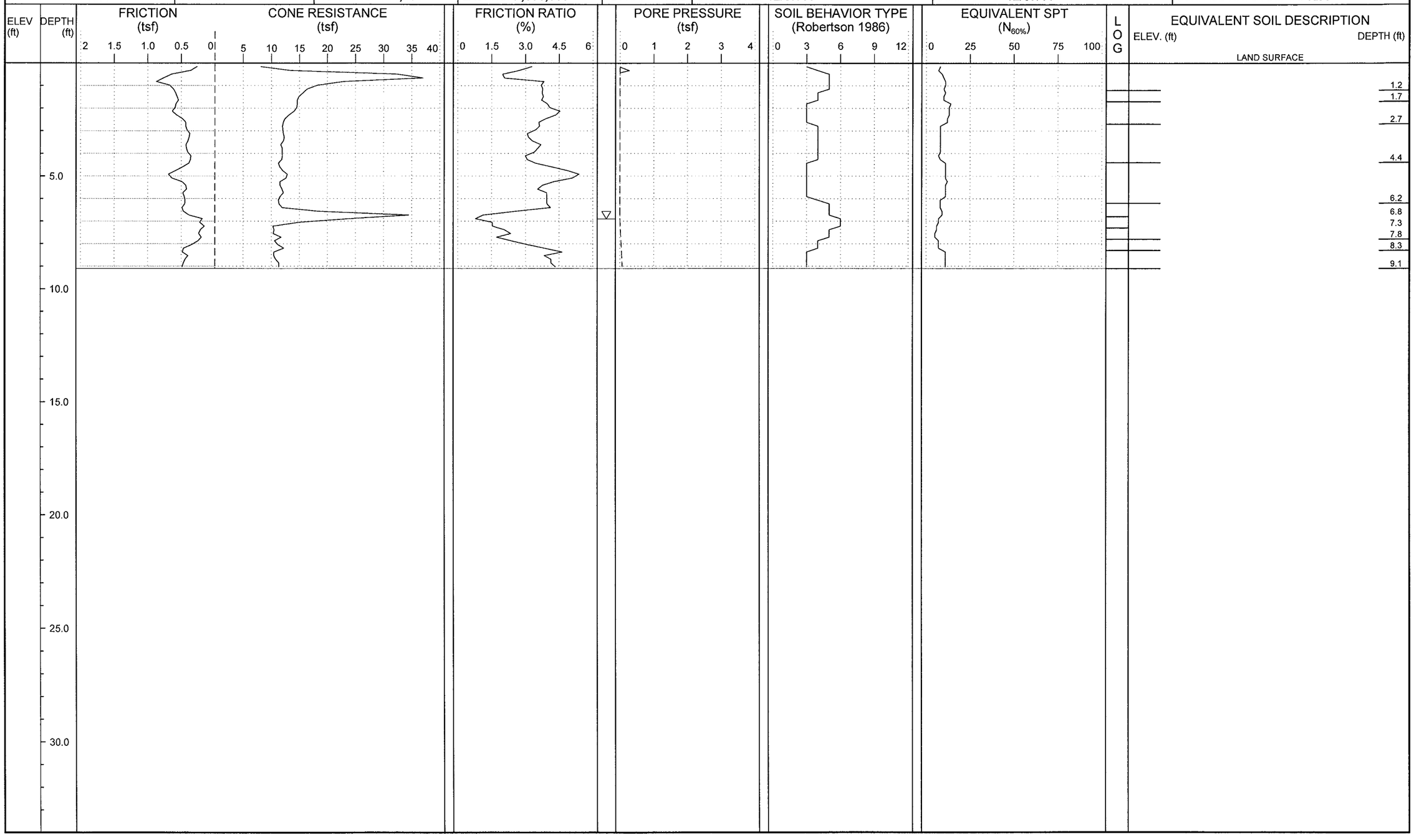


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	100
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-4500**	STATION: **45+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **6.9**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,431**	EASTING: **2,538,860**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**



EQUIVALENT SOIL DESCRIPTION

ELEV. (ft) DEPTH (ft)

LAND SURFACE

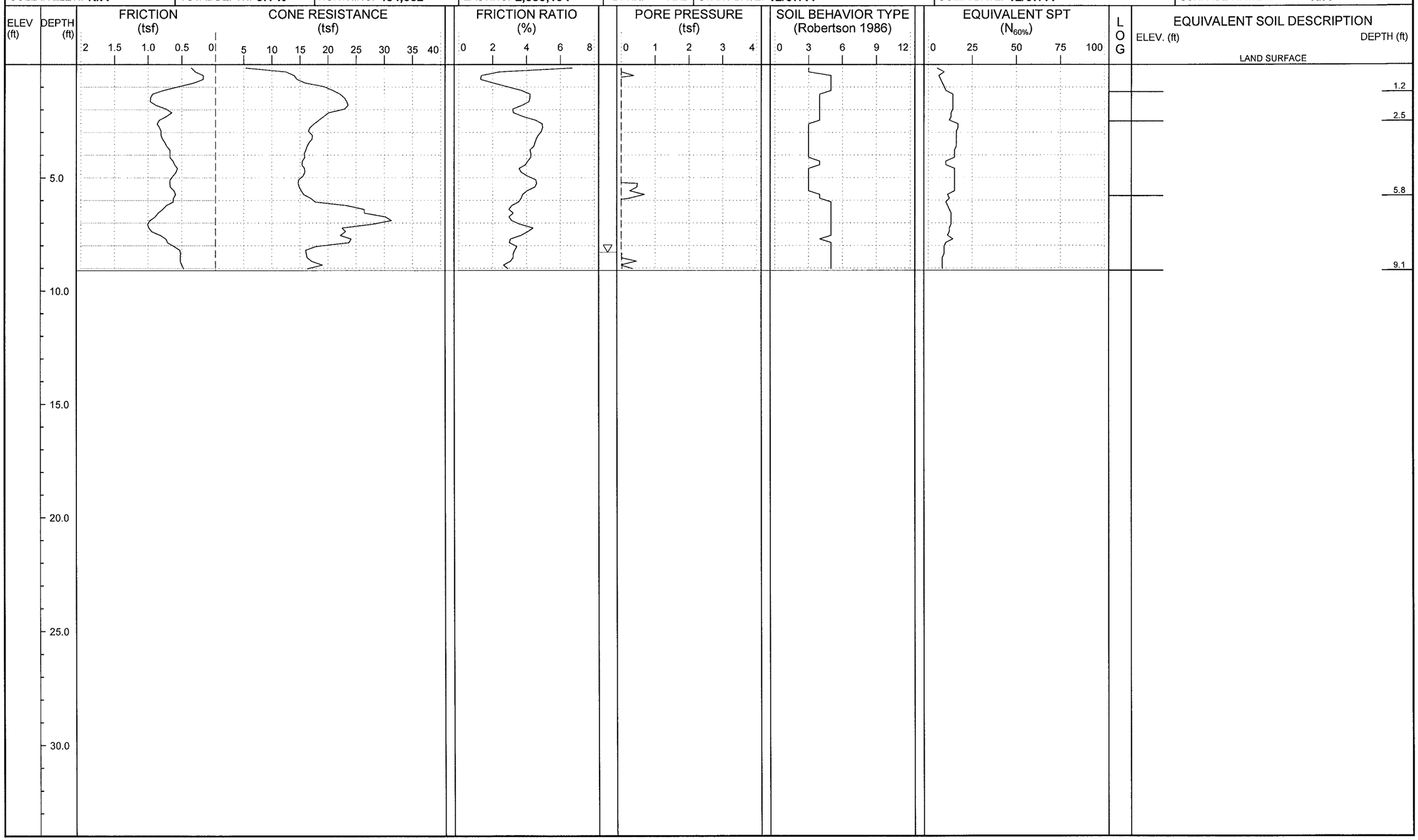
1.2
1.7
2.7
4.4
6.2
6.8
7.3
7.8
8.3
9.1

NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	101
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**	DRILL MACHINE: **Hogentogler Track**		MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**			GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**		DRILLER: **Cory Robinson**
BORING NO.: **Y8A-4900**	STATION: **49+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **8.3**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,652**	EASTING: **2,539,194**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

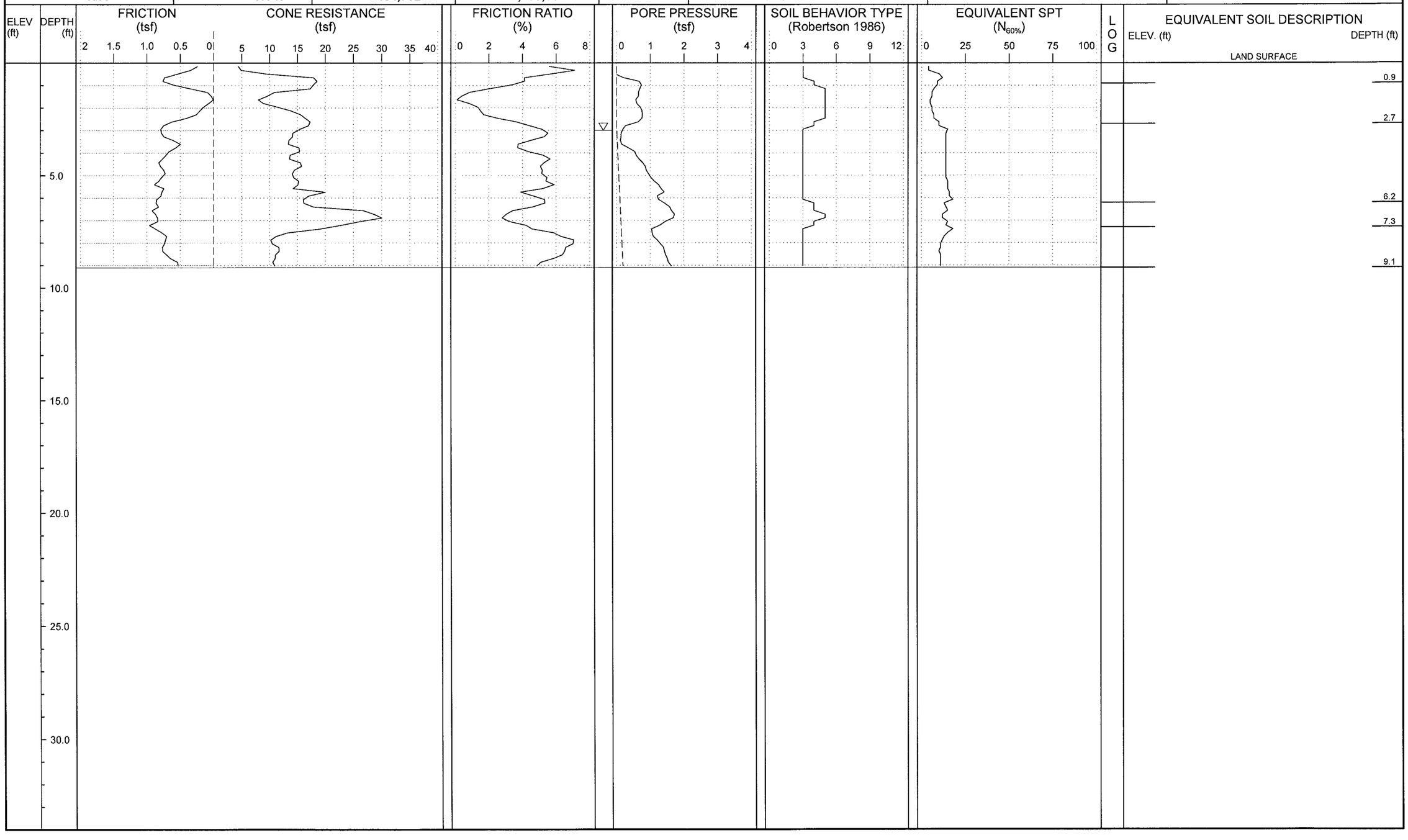


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	102
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-5100**	STATION: **51+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **3.0**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **484,762**	EASTING: **2,539,361**	24 HR. **FIAD**	START DATE: **12/07/11**	COMP. DATE: **12/07/11**	SURFACE WATER DEPTH: **N/A**

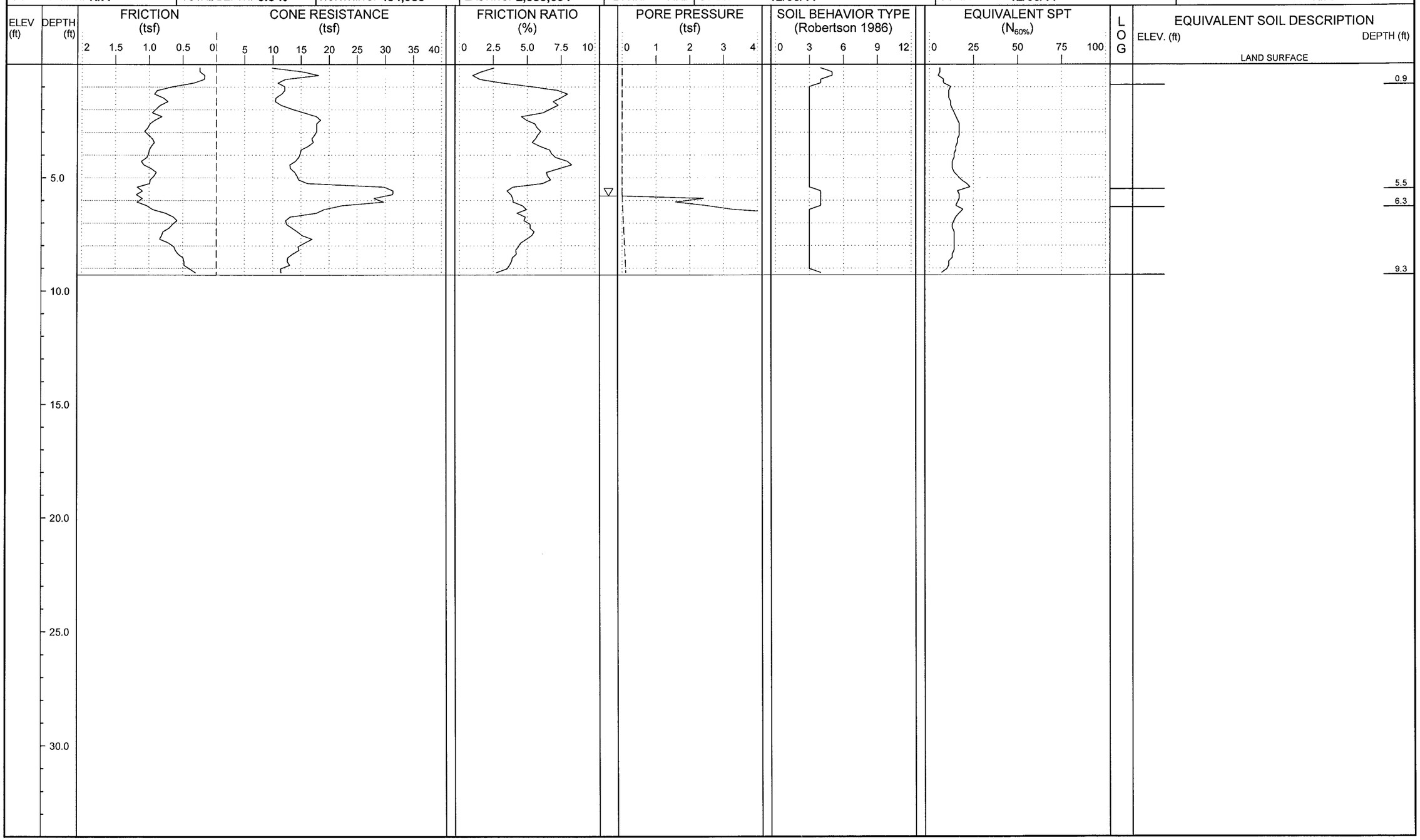


NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	103
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-5500**	STATION: **55+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **5.8**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.3 ft**	NORTHING: **484,983**	EASTING: **2,539,694**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**



NCDOT GEOTECHNICAL ENGINEERING UNIT

ENGLISH

SHEET NO.:	104
PROJ. NO.:	34441.1.1
TIP NO.:	R-2514D
COUNTY:	Jones/Craven

PROJECT NO.: **34441.1.1**	ID.: **R-2514D**	COUNTY: **Jones/Craven**	GEOLOGIST: **Steven Hudson**		DRILL MACHINE: **Hogentogler Track**	MAX. DOWN PRESSURE: **10,000**	
SITE DESCRIPTION: **US 17 from South of NC 58 to the New Bern Bypass**				GROUND WTR (ft)	DRILL METHOD: **Direct Push**	CONE TYPE: **Piezo**	DRILLER: **Cory Robinson**
BORING NO.: **Y8A-5700**	STATION: **57+00**	OFFSET: **0ft CL**	ALIGNMENT: **-Y8A-**	0 HR. **N/A**	ROD TYPE: **Pre-Strung**	CONE ID: **DSA1123**	TECHNICIAN: **M.A.D.**
COLLAR ELEV.: **N/A**	TOTAL DEPTH: **9.1 ft**	NORTHING: **485,155**	EASTING: **2,539,785**	24 HR. **FIAD**	START DATE: **12/06/11**	COMP. DATE: **12/06/11**	SURFACE WATER DEPTH: **N/A**