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REFERENCE: R-1015

PROJECT: 34360

SEE SHEET 3 FOR PLAN SHEET LAYOUT  
AT TIME OF INVESTIGATION

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-1015	1	200

# ROADWAY SUBSURFACE INVESTIGATION

COUNTY CRAVEN  
PROJECT DESCRIPTION US 70 (HAVELOCK BYPASS)  
FROM NORTH OF PINE GROVE TO NORTH OF  
CARTERET COUNTY LINE

## INVENTORY

CONTENTS <u>LINE</u>	<u>STATION</u>	<u>SECTION 1 PLAN</u>	<u>SECTION 2 PROFILE</u>
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-RPIAB-	4+89 TO 42+10	7,41-42	90-92
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-RPICD-	0+00 TO 36+08	7,41	95-97
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-Y3-	34+77 TO 73+81	17,43,44	99-101
-Y3RPA-	0+00 TO 17+64	17-18	102-103
-Y3RPB-	0+00 TO 20+40	17	104-105
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CROSS SECTIONS <u>LINE</u>	<u>STATION</u>	<u>SECTION 3 SHEET</u>
-L-	92+50 TO 96+00	128-129
-L-	268+50 TO 273+50	130-133
-L-	280+50 TO 282+50	134-135
-L-	292+50 TO 293+50	136
-L-	302+00 TO 307+00	137-138
-L-	341+50 TO 343+50	139
-L-	374+50 TO 378+50	140-142
-L-	455+00 TO 460+50	143-145
-L-	493+50 TO 496+00	146
-L-	509+50 TO 514+50	147-152
-L-	527+00 TO 538+50	153-157
-L-	549+50 TO 556+00	158-160
-L-	557+50 TO 563+00	161-163
-L-	568+50 TO 573+00	164-165
-RPIAB-	5+00 TO 10+50	166-169
-RPIB-	16+50 TO 25+00	170-173
-LPIB-	4+50 TO 7+00	174-175
-Y3-	35+00 TO 42+00	176-178
-Y3-	64+50 TO 73+50	179-182
-Y3DET-	37+23 TO 42+00	183-185
-Y3DET-	63+00 TO 66+00	186-187
-Y4-	51+00 TO 54+00	188-190
-Y4DET-	51+00 TO 54+00	191-192
-RP2A-	90+50 TO 92+95	193-194
-RP2AC-	37+00 TO 39+00	195
-RP2C-	5+86 TO 6+79	196-198
-LP2A-	83+50 TO 86+00	153, 199-200
-SERVRD-	32+80 TO 56+74	154-159

### 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. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
1. THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
  2. 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.

PERSONNEL

JRS

RES

JME

AMH

LWD

ELD

WNC

LW

DRP

INVESTIGATED BY J.L. STONE

DRAWN BY C.P. TURNER

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE JULY 2014







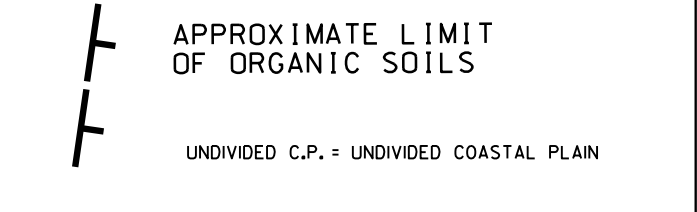
DocuSigned by:  
Joseph L. Stone 3/16/2015

SIGNATURE	DATE
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**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**GEOTECHNICAL ENGINEERING UNIT**  
**SUBSURFACE INVESTIGATION**

**SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS**

<b>SOIL DESCRIPTION</b> 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 AND GENERAL PERTINENT FACTORS SUCH AS CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. EXAMPLE: <i>VERY STIFF, GRN. SILTY CLAY, MOST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6</i>		<b>GRADATION</b> <u>WELL GRADED</u> - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. <u>UNIFORM</u> - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO POORLY GRADED) <u>GAP-GRADED</u> - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES. <b>ANGULARITY OF GRAINS</b> THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: <u>ANGULAR</u> , <u>SUBANGULAR</u> , <u>SUBROUNDED</u> , OR <u>ROUNDED</u> .		<b>ROCK DESCRIPTION</b> 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)  CRYSTALLINE ROCK (CR)  NON-CRYSTALLINE ROCK (NCR)  COASTAL PLAIN SEDIMENTARY ROCK (CPS)		<b>TERMS AND DEFINITIONS</b> <u>ALLUVIUM (ALLUV.)</u> - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. <u>AQUIFER</u> - A WATER BEARING FORMATION OR STRATA. <u>ARENACEOUS</u> - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. <u>ARGILLACEOUS</u> - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC. <u>ARTESIAN</u> - 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. <u>CALCAREOUS (CALC.)</u> - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. <u>COLLUVIUM</u> - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. <u>CORE RECOVERY (REC.)</u> - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. <u>DIKE</u> - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK. <u>DIP</u> - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. <u>DIP DIRECTION (DIP AZIMUTH)</u> - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. <u>FAULT</u> - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. <u>FISSILE</u> - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES. <u>FLOAT</u> - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL. <u>FLOOD PLAIN (FP)</u> - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. <u>FORMATION (FM)</u> - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD. <u>JOINT</u> - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. <u>LEDGE</u> - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT. <u>MOTTLED (MOT.)</u> - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. <u>PERCHED WATER</u> - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. <u>RESIDUAL (RES.) SOIL</u> - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. <u>ROCK QUALITY DESIGNATION (ROD)</u> - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. <u>SAPROLITE (SAP.)</u> - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. <u>SILL</u> - 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. <u>SLICKENSIDE</u> - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE. <u>STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT)</u> - 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. <u>STRATA CORE RECOVERY (SREC.)</u> - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. <u>STRATA ROCK QUALITY DESIGNATION (SRQD)</u> - 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. <u>TOPSOIL (TS.)</u> - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	
<b>SOIL LEGEND AND AASHTO CLASSIFICATION</b> 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 SYMBOL % PASSING: 10, 40, 200 LIQUID LIMIT PLASTIC INDEX GROUP INDEX USUAL TYPES OF MAJOR MATERIALS GENERATING AS A SUBGRADE		<b>MINERALOGICAL COMPOSITION</b> MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE. <b>COMPRESSIBILITY</b> SLIGHTLY COMPRESSIBLE MODERATELY COMPRESSIBLE HIGHLY COMPRESSIBLE <b>PERCENTAGE OF MATERIAL</b> 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		<b>WEATHERING</b> FRESH ROCK FRESH, CRYSTALLINE SHELL, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE. VERY SLIGHT (V SL.) 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 (SL.) 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. <i>IF TESTED, WOULD YIELD SPT REFUSAL</i> 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. <i>IF TESTED, YIELDS SPT N VALUES &lt; 100 BPF</i> 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. <i>IF TESTED, YIELDS SPT N VALUES &lt; 100 BPF</i> 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.			
<b>CONSISTENCY OR DENSENESS</b> PRIMARY SOIL TYPE COMPACTNESS OR CONSISTENCY RANGE OF STANDARD PENETRATION RESISTANCE (N-VALUE) RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/FT <sup>2</sup> ) GENERALLY GRANULAR MATERIAL (NON-COHESSIVE) VERY LOOSE, LOOSE, MEDIUM DENSE, DENSE, VERY DENSE <4, 4 TO 10, 10 TO 30, 30 TO 50, >50 N/A GENERALLY SILT-CLAY MATERIAL (COHESIVE) VERY SOFT, SOFT, MEDIUM STIFF, STIFF, VERY STIFF, HARD <2, 2 TO 4, 4 TO 8, 8 TO 15, 15 TO 30, >30 <0.25, 0.25 TO 0.50, 0.5 TO 1.0, 1 TO 2, 2 TO 4, >4		<b>MISCELLANEOUS SYMBOLS</b> ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION SOIL SYMBOL ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT INFERRED ROCK BOUNDARY INFERRED SOIL LINE ALLUVIAL SOIL BOUNDARY DIP & DIP DIRECTION OF ROCK STRUCTURES TEST BORING AUGER BORING CORE BORING MONITORING WELL PIEZOMETER INSTALLATION SLOPE INDICATOR INSTALLATION CONE PENETROMETER TEST SOUNDING ROD					
<b>TEXTURE OR GRAIN SIZE</b> U.S. STD. SIEVE SIZE OPENING (MM) 4, 10, 40, 60, 200, 270 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		<b>ABBREVIATIONS</b> 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 ? - UNIT WEIGHT % - DRY UNIT WEIGHT SAMPLE ABBREVIATIONS S - BULK SS - SPLIT SPOON ST - SHELBY TUBE RS - ROCK RT - RECOMPACTED TRIAXIAL CBR - CALIFORNIA BEARING RATIO					
<b>SOIL MOISTURE - CORRELATION OF TERMS</b> SOIL MOISTURE SCALE (ATTERBERG LIMITS) FIELD MOISTURE DESCRIPTION GUIDE FOR FIELD MOISTURE DESCRIPTION LL - LIQUID LIMIT PL - PLASTIC LIMIT OM - OPTIMUM MOISTURE SL - SHRINKAGE LIMIT SAT. - SATURATED - USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE WET - (W) SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE DRY - (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE		<b>EQUIPMENT USED ON SUBJECT PROJECT</b> DRILL UNITS: MOBILE B-51, BK-51, CME-45C, CME-45B, PORTABLE HOIST ADVANCING TOOLS: CLAY BITS, 6" CONTINUOUS FLIGHT AUGER, 8" HOLLOW AUGERS, HARD FACED FINGER BITS, TUNG-CARBIDE INSERTS, CASING w/ ADVANCER, TRICONE 2 1/8" STEEL TEETH, TRICONE TUNG-CARB., CORE BIT HAMMER TYPE: AUTOMATIC, MANUAL CORE SIZE: B, N, H HAND TOOLS: POST HOLE DIGGER, HAND AUGER, SOUNDING ROD, VANE SHEAR TEST					
<b>PLASTICITY</b> NONPLASTIC, LOW PLASTICITY, MED. PLASTICITY, HIGH PLASTICITY PLASTICITY INDEX (PI) DRY STRENGTH VERY LOW, SLIGHT, MEDIUM, HIGH		<b>FRACTURE SPACING</b> 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 <b>BEDDING</b> 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					
<b>COLOR</b> 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.		<b>INDURATION</b> 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.					



See Sheet 1-A For Index of Sheets

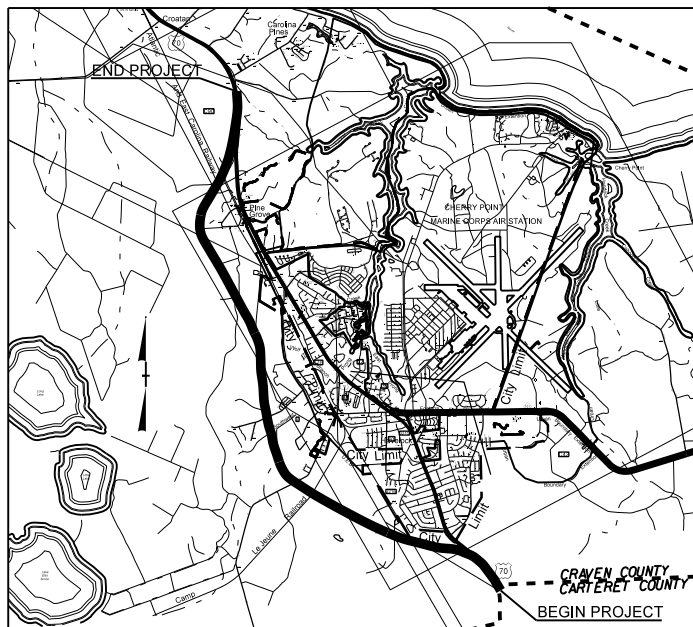
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CRAVEN COUNTY**

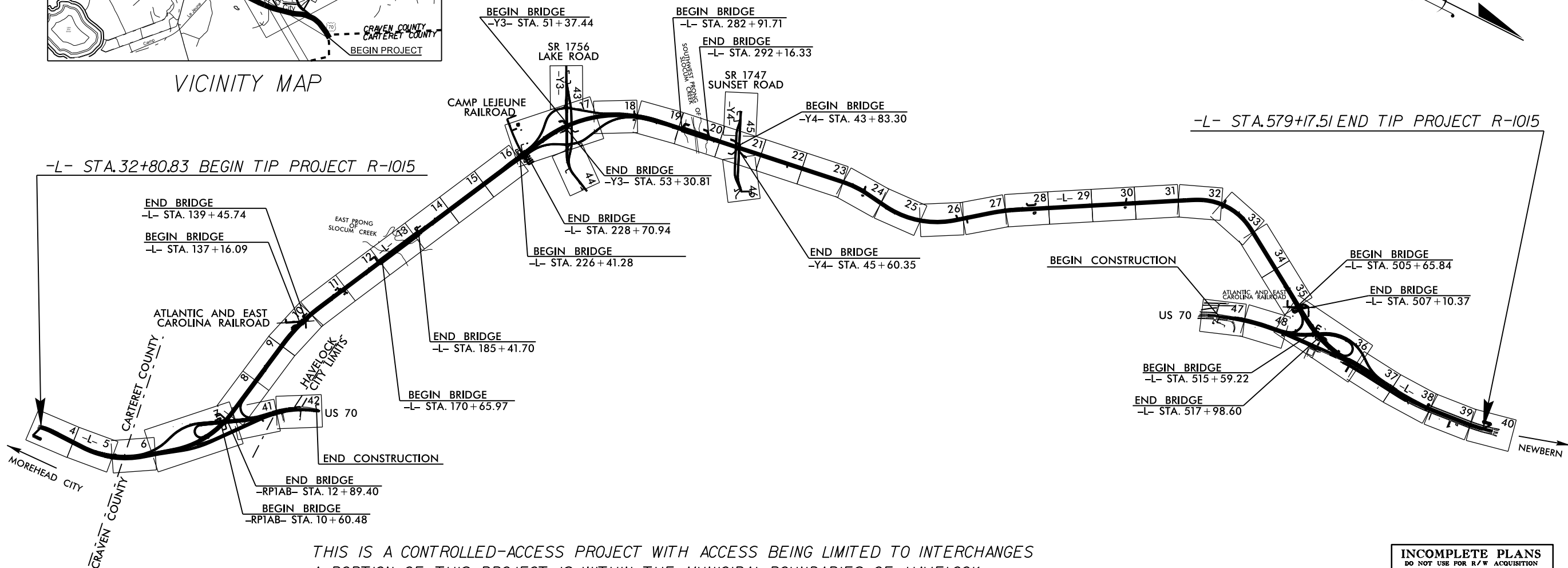
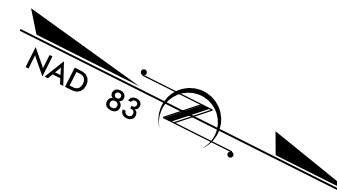
LOCATION: US 70 (HAVELOCK BYPASS) FROM NORTH OF PINE GROVE TO NORTH OF CARTERET COUNTY LINE

TYPE OF WORK: PAVING, GRADING, WIDENING, RESURFACING, DRAINAGE, CURB AND GUTTER, AND STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-1015	3	200
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34360.1.1	STPNHF-F-56-4(34)	PE	



VICINITY MAP



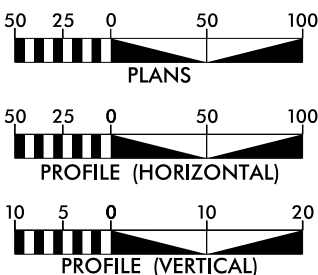
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES  
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HAVELOCK.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD \_\_\_\_\_.

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

**TIP PROJECT: R-1015**

**CONTRACT:**

**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2008 = 31,200  
ADT 2035 = 55,100  
DHV = 7 %  
D = 65 %  
T = 6 % \*  
V = 70 MPH  
\* TTST 3% DUAL 3%

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT R-1015A = 9.734 MILES  
LENGTH OF STRUCTURE TIP PROJECT R-1015A = 0.614 MILES  
TOTAL LENGTH OF STATE PROJECT R-1015A = 10.348 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
APRIL 17, 2012

LETTING DATE:  
OCTOBER 21, 2014

TED S. WALLS  
PROJECT ENGINEER

ALLISON K. WHITE  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

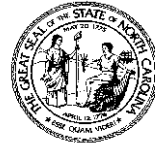
SIGNATURE: \_\_\_\_\_ P.E.

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**



STATE HIGHWAY DESIGN ENGINEER

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

March 5, 2015

STATE PROJECT: 34360.1.2 (R-1015)  
F.A. PROJECT: STPNHF-F-56-4 (34)  
COUNTY: Craven  
DESCRIPTION: US 70 (Havelock Bypass) from North of Pine Grove  
To North of Carteret County  
SUBJECT: Geotechnical Inventory

**Project Description**

This project begins along existing US 70, approximately one half mile south of the Craven/ Carteret county line and extends generally north for 10.3 miles ending along existing US 70 just south of SR 1105 (Magnolia Farm Rd.) between Havelock and New Bern. This geotechnical investigation was confined to the areas of proposed construction.

Fieldwork was conducted from July 2001 through December 2001 and in February of 2011. Standard Penetration Test borings were advanced with a CME 45-B drill machine with an automatic hammer. 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.

<u>Line</u>	<u>Station(±)</u>
-L-	32+80 to 579+17
-Y3-	34+77 to 73+81
-Y4-	32+80 to 58+86
-RP1A-	0+00 to 9+86
-RP1AB-	4+89 to 42+10
-RP1B-	0+00 to 25+50
-RP1CD-	0+00 to 36+08
-RP2A-	79+22 to 97+93
-RP2C-	0+00 to 13+82
-RP2AC-	36+73 to 79+22

<u>Line</u>	<u>Station(±)</u>
-Y3RPA-	0+00 to 17+64
-Y3RPB-	0+00 to 20+40
-Y3RPC-	0+00 to 17+33
-Y3RPD-	0+00 to 25+55
-LP1B-	0+00 to 9+04
-LP2A-	79+22 to 88+59
-Y3DET-	38+67 to 66+15
-Y4DET-	34+60 to 59+54
-SERVRD-	32+80 to 56+74

**Areas of Special Geotechnical Interest**

- 1) The following sections were found to exhibit seasonal high ground water.

<u>Line</u>	<u>Station(±)</u>
-L-	32+80 to 82+50
-L-	88+00 to 245+50
-L-	266+50 to 277+00
-L-	283+00 to 293+50
-L-	329+50 to 343+50
-L-	375+00 to 382+00
-L-	397+00 to 469+50
-L-	510+00 to 518+50
-L-	534+00 to 579+17

<u>Line</u>	<u>Station(±)</u>
-RP1AB-	4+89 to 17+00
-RP1B-	0+00 to 6+50
-RP1B-	8+50 to 25+50
-RP1CD-	0+00 to 32+50
-LP1B-	0+00 to 9+04
-Y3-	34+77 to 63+00
-Y3RPA-	13+00 to 17+64
-Y3RPB-	0+00 to 20+40
-Y3RPC-	0+00 to 17+33
-Y3RPD-	17+00 to 25+55
-Y3DET-	38+67 to 66+15
-Y4-	50+00 to 58+86
-Y4DET-	34+60 to 42+00
-Y4DET-	50+00 to 59+54
-RP2A-	179+22 to 97+93
-RP2AC-	53+00 to 59+00
-RP2AC-	71+50 to 79+22
-RP2C-	3+00 to 9+50
-RP2CD-	13+50 to 24+82
-LP2A-	79+22 to 88+59
-SERVRD-	32+80 to 56+74

- 2) The following sections contain cohesive soils which have the potential to cause embankment/subgrade and or slope stability problems during construction.

<u>Line</u>	<u>Station(±)</u>
-L-	47+30 to 58+00
-L-	58+70 to 69+60
-L-	70+90 to 72+70
-L-	75+00 to 75+75
-L-	83+30 to 87+80
-L-	89+40 to 114+20
-L-	116+30 to 130+50
-L-	155+60 to 159+50
-L-	165+00 to 171+70
-L-	189+10 to 243+60
-L-	245+40 to 266+80
-L-	273+00 to 283+20
-L-	294+80 to 309+80

<u>Line</u>	<u>Station(±)</u>
-L-	315+60 to 323+90
-L-	329+20 to 333+20
-L-	335+10 to 336+80
-L-	343+10 to 457+90
-L-	459+10 to 473+20
-L-	474+60 to 510+25
-L-	518+40 to 543+50
-L-	549+90 to 555+80
-L-	557+00 to 562+80
-L-	568+60 to 579+17
-RP1A-	6+20 to 9+86
-RP1AB-	4+89 to 7+60
-RP1AB-	9+10 to 10+30
-RP1AB-	11+30 to 17+10
-RP1AB-	23+10 to 24+80
-RP1AB-	28+55 to 34+60
-RP1AB-	38+85 to 40+10
-RP1B-	0+30 to 5+40
-RP1B-	8+10 to 12+70
-RP1B-	16+80 to 25+50
-RP1CD-	0+30 to 12+60
-RP1CD-	13+60 to 16+80
-RP1CD-	19+10 to 31+00
-RP1CD-	33+00 to 36+08
-LP1B-	0+00 to 9+04
-Y3-	34+77 to 50+60
-Y3-	53+60 to 73+81
-Y3RPA-	0+00 to 17+64
-Y3RPB-	0+00 to 20+40
-Y3RPC-	0+00 to 17+33
-Y3RPD-	0+00 to 25+55
-Y3DET-	38+67 to 66+15
-Y4-	36+30 to 49+00
-Y4DET-	38+50 to 50+08
-RP2A-	80+70 to 92+90
-RP2A-	94+90 to 97+93
-RP2AC-	36+73 to 38+80
-RP2AC-	41+00 to 49+00
-RP2AC-	51+00 to 72+90
-RP2AC-	73+20 to 79+22
-RP2C-	11+70 to 13+82
-RP2CD-	0+00 to 7+00
-RP2CD-	10+90 to 21+40

<u>Line</u>	<u>Station(±)</u>
-LP2A-	79+22 to 88+59
-SERVRD-	32+80 to 56+74

**Ground Water**

Ground water data was collected from July 2001 through December 2001 and in February of 2011. Ground water elevations ranged from 10± to 30± feet above sea level.

**Soils**

Soils encountered within this project area have been divided into four categories, undivided coastal plain soils, formational soils, roadway embankment and artificial fill.

Soils identified as undivided coastal plain are composed of 2± to 40± feet of very loose to medium dense sand and clayey sand (A-2-6, A-2-4, A-3), with 1± to 7± feet of very soft to stiff sandy and silty clay (A-6, A-7-6) and 1± to 7± feet of very soft to stiff sandy and clayey silt (A-4). Moisture samples taken within these cohesive units returned moisture contents from 16% to 44%. Surficial organic soils were also identified. These soils were typically 1± to 6± feet thick and composed of very soft to medium stiff silty and clays (A-6, A-7-6, A-7-5), along with very loose sands (A-2-4). Laboratory analysis of these soils show organic percentages ranging from 17% to 42% and moisture contents ranging from 35% to 498%.

Formational soils belonging to the Duplin Formation and the River Bend Formation were also encountered. The Duplin Formation was found to be 5± to 25± feet of loose to medium dense sand (A-2-4) and 5± to 26± feet of very soft to medium stiff sandy, silty clay and sandy silt (A-7-6, A-6, A-4). The River Bend Formation was composed of 4± to 28 or more feet of soft to hard limestone and 14± to 27 or more feet of medium dense to very dense sand (A-2-4, A-3).

Roadway embankment soils were found along the existing US 70 corridor and associated intersecting roads. Where encountered it was composed of 1± to 5± feet of loose sand (A-2-4) and medium stiff sandy clay (A-6, A-7-6).

Soils classified as artificial fill were composed of 1± to 3± feet of soft to stiff sandy clay (A-6) along with 1± to 2± feet of loose sand (A-2-4.)

**Undisturbed Samples**

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

<u>Sample No.</u>	<u>Station</u>	<u>Depth</u>	<u>Test</u>
ST-1	-Y4- STA. 39+36, 10RT	3.0-5.0	Consolidation
ST-2	-L- STA. 284+11, CL	0.5-2.5	Consolidation
ST-3	-L- STA. 290+68, CL	0.0-2.0	Consolidation
ST-4	-L- STA. 509+18, CL	9.0-11.0	Consolidation
ST-5	-L- STA. 505+24, CL	12.5-14.5	Triaxial CU and Consolidation.

3) The following sections contain organic soils that have the potential to cause embankment/subgrade and or slope stability problems during construction.

<u>Line</u>	<u>Station(±)</u>
-RP1B-	16+66 to 25+50
-RP1AB-	4+89 to 10+50
-LP1B-	4+94 to 9+04
-L-	268+60 to 273+29
-L-	280+80 to 293+43
-L-	341+75 to 343+34
-L-	374+90 to 377+08
-L-	457+61 to 460+30
-L-	508+89 to 514+32
-RP2C-	5+43 to 6+83
-Y4-	51+10 to 54+13
-Y4DET-	51+19 to 54+26

4) A pond was identified along the following alignment.

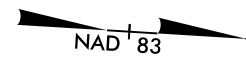
<u>Line</u>	<u>Station(±)</u>
-L-	341+82 to 343+10

**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 ranged from 23± to 30± feet above sea level.

Surficial soils in this area are generally classified as undivided coastal plain sediments and are underlain by formational soils belonging to the Duplin and Riverbend Formations.

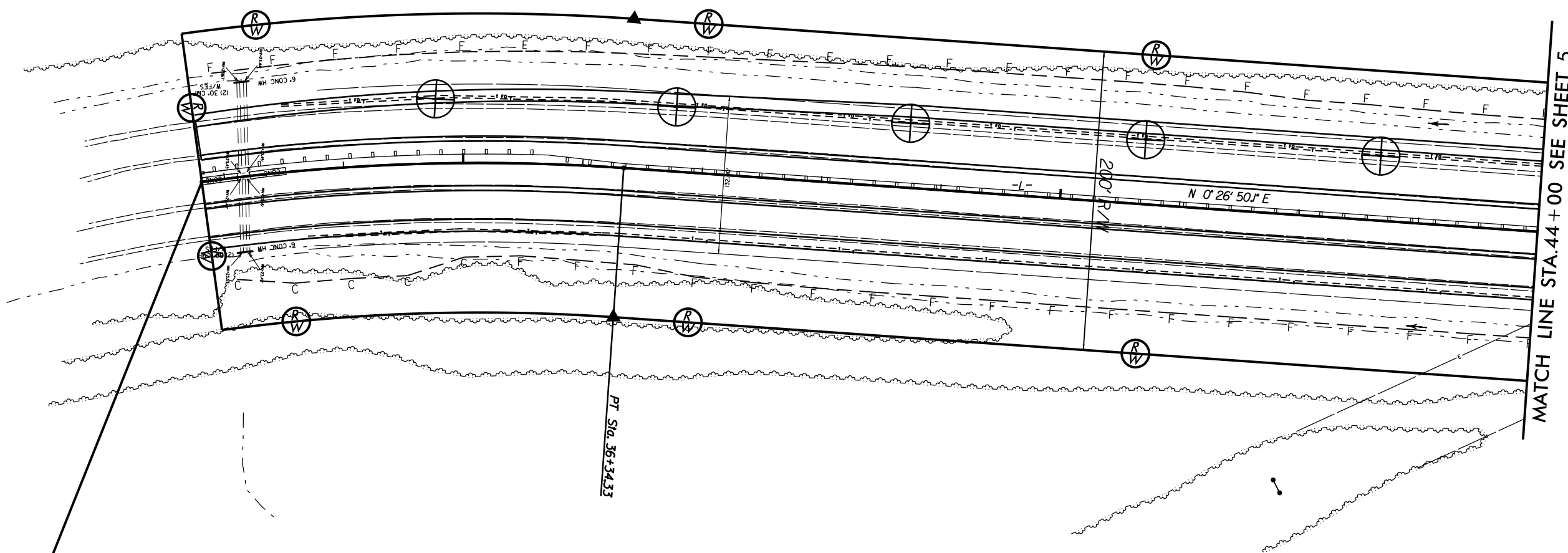
PROJECT REFERENCE NO.	SHEET NO.
R-1015	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



-L-  
 PI Sta 34+58.20  
 $\Delta = 1^\circ 45' 32.0''$  (RT)  
 $D = 3^\circ 19' 35.2''$   
 $L = 353.50'$   
 $T = 177.37'$   
 $R = 1,722.44'$   
 $SE = 0.08$   
 $RUNOFF = 264'$

35

40



BEGIN PROJECT R-1015  
 -L- PC STA. 32+80.83

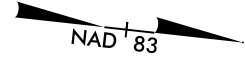
UNITED STATES OF AMERICA  
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 7375.2 AC (DEED)

REVISIONS

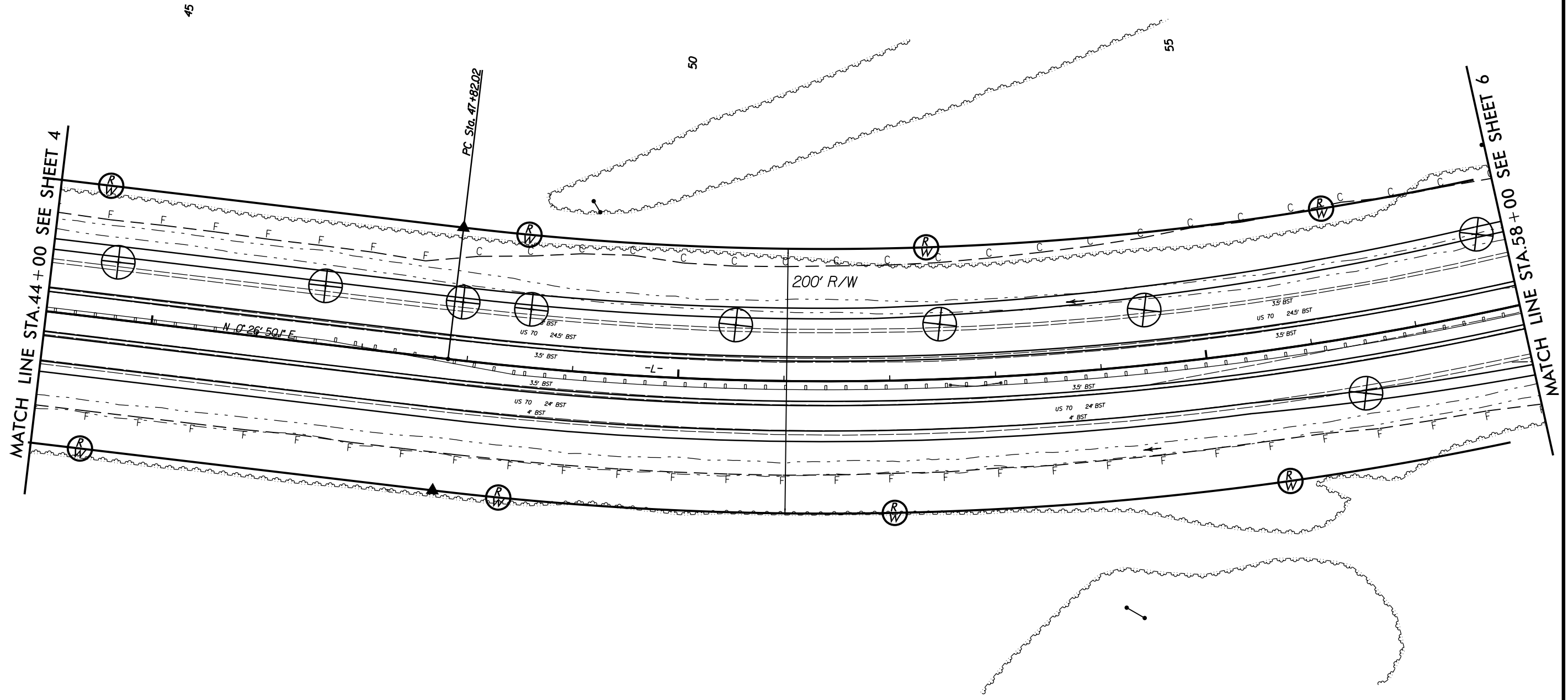
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



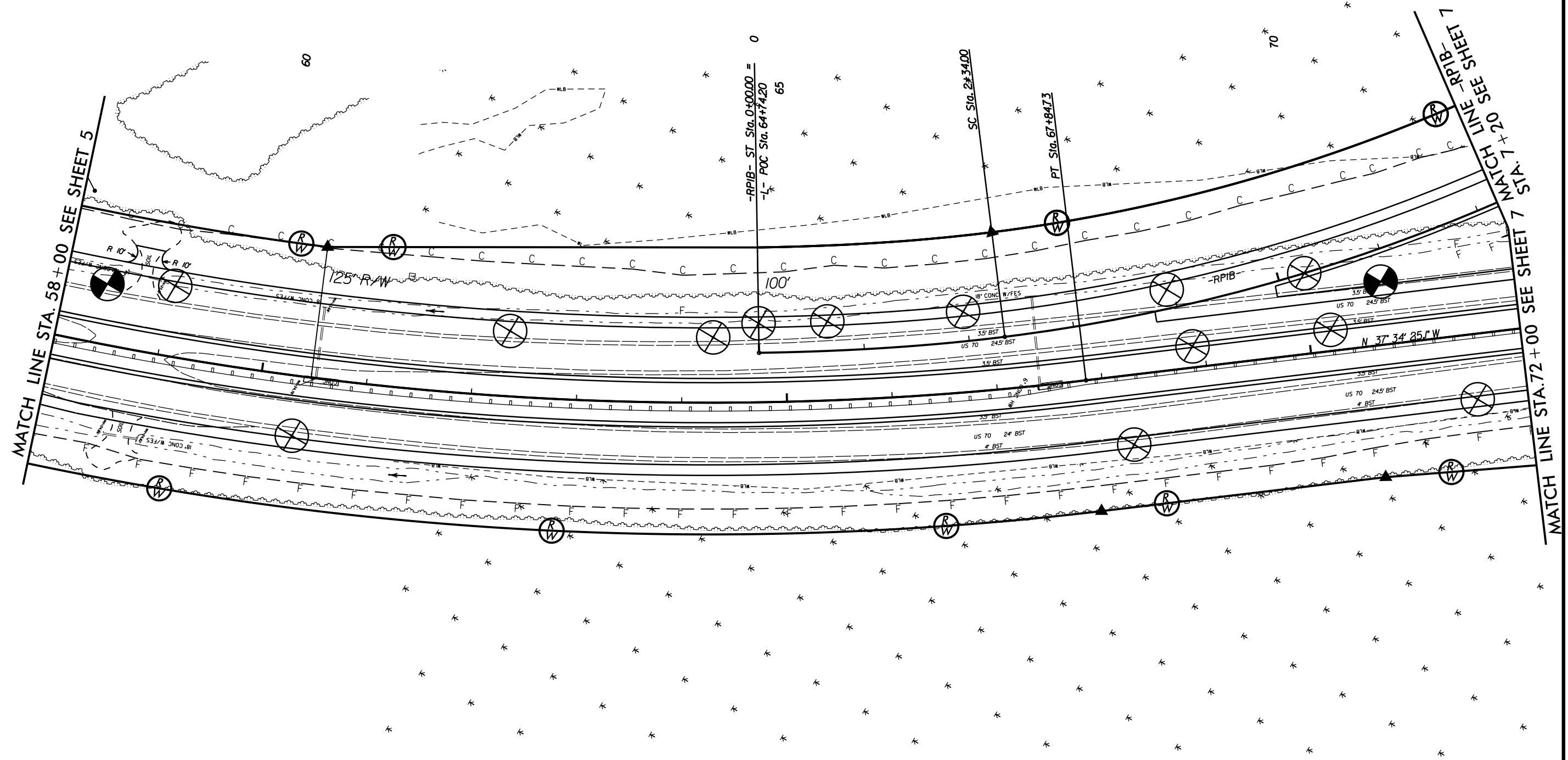
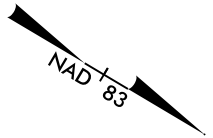
-L-  
 PI Sta 58+21.81  
 $\Delta = 38^{\circ} 01' 15.2" (LT)$   
 $D = 1' 53' 54.5"$   
 $L = 2,002.71'$   
 $T = 1,039.80'$   
 $R = 3,018.00'$   
 $SE = 0.06$   
 $RUNOFF = 300'$



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PROJECT REFERENCE NO.	SHEET NO.
R-1015	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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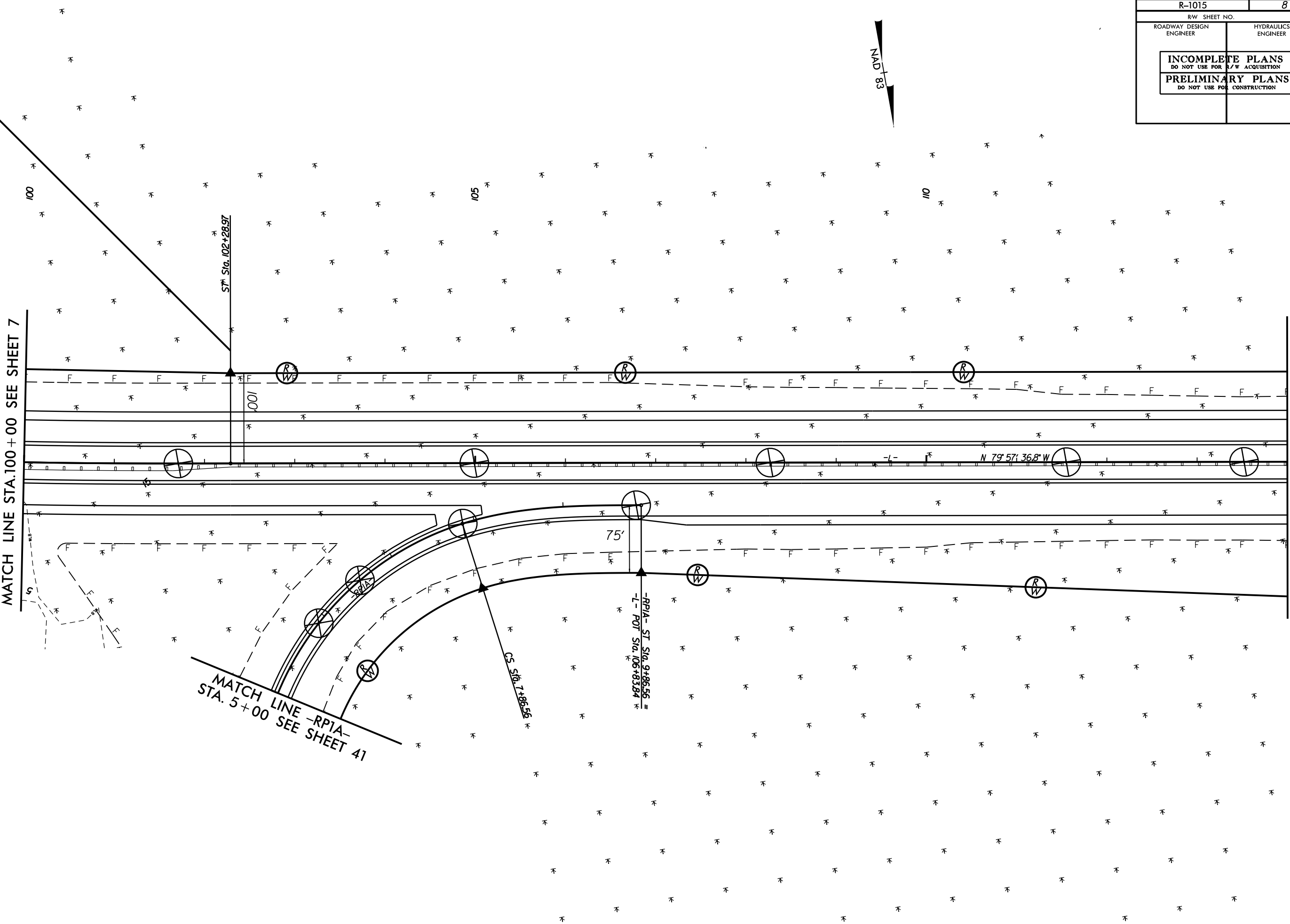


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PROJECT REFERENCE NO.	SHEET NO.
R-1015	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



MATCH LINE STA. 100+00 SEE SHEET 7

MATCH LINE STA. 114+00 SEE SHEET 9

MATCH LINE -RPIA-  
STA. 5+00 SEE SHEET 41

ST. Sta. 102+28.97

-RPIA- ST. Sta. 7+86.56 =  
-L- POT Sta. 106+83.84

CS Sta. 7+86.56

N 79° 57' 36.8" W

75'

100'

100

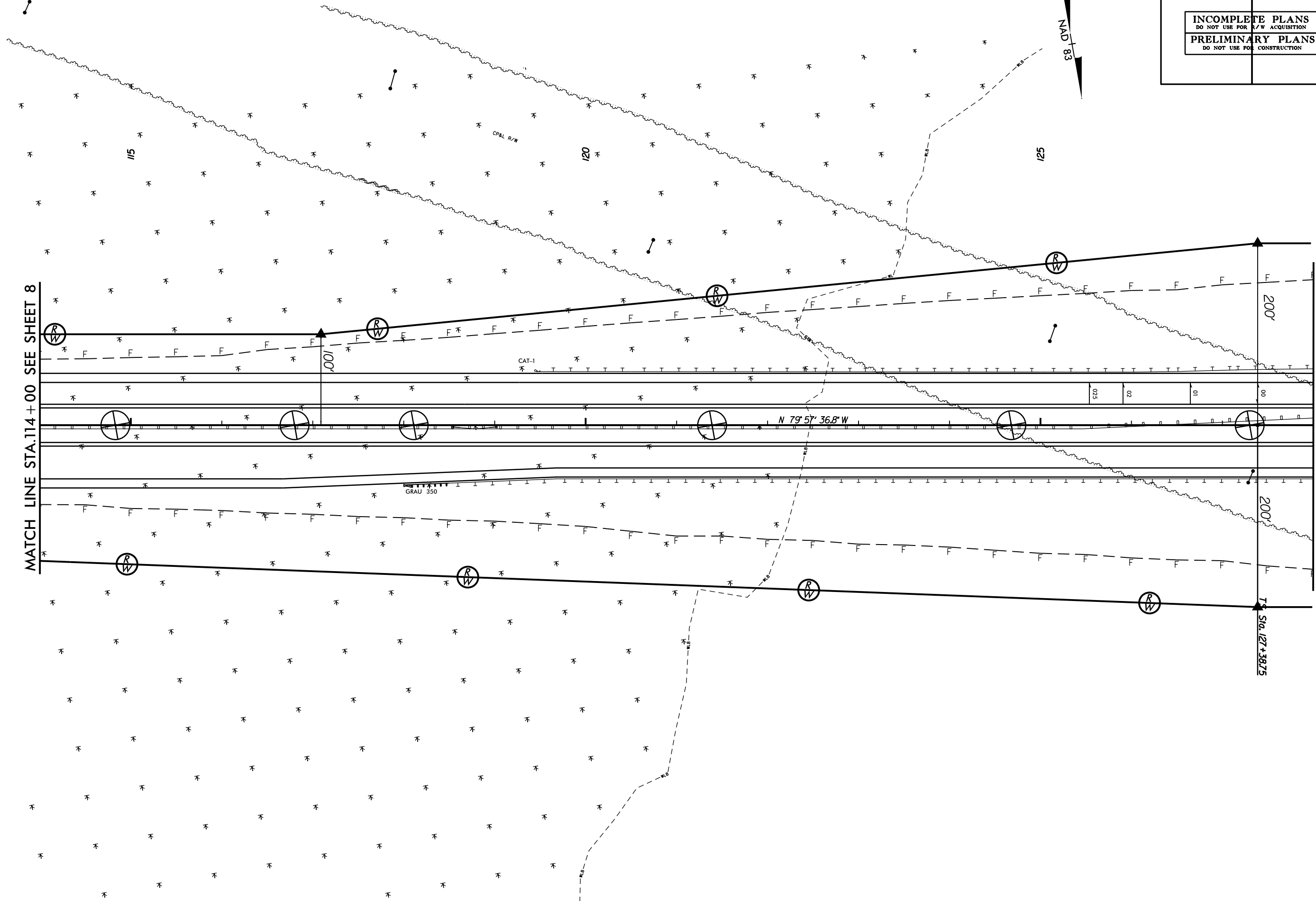
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



MATCH LINE STA. 114 + 00 SEE SHEET 8

MATCH LINE STA. 128 + 00 SEE SHEET 10

Sta. 127 + 38.75

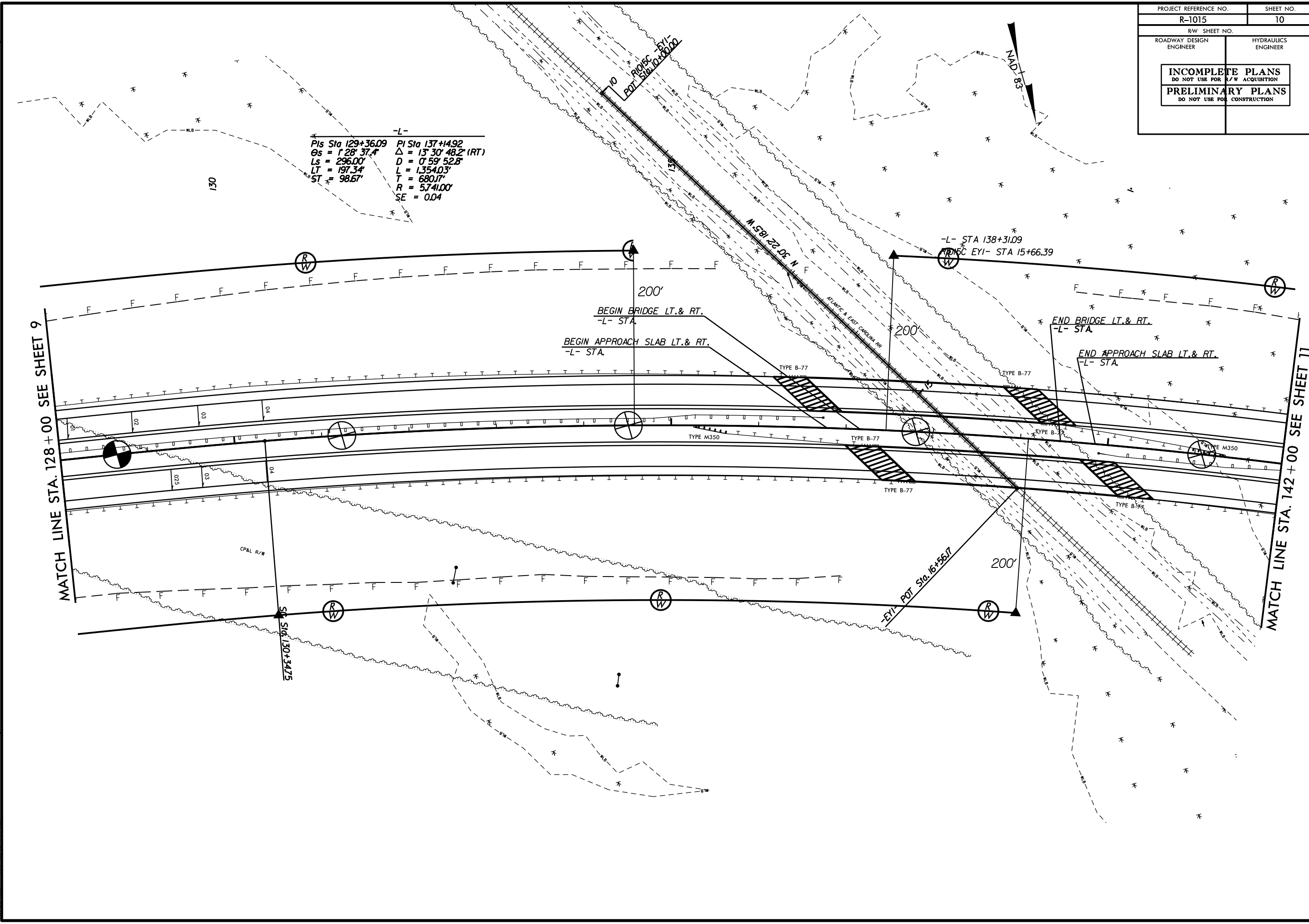
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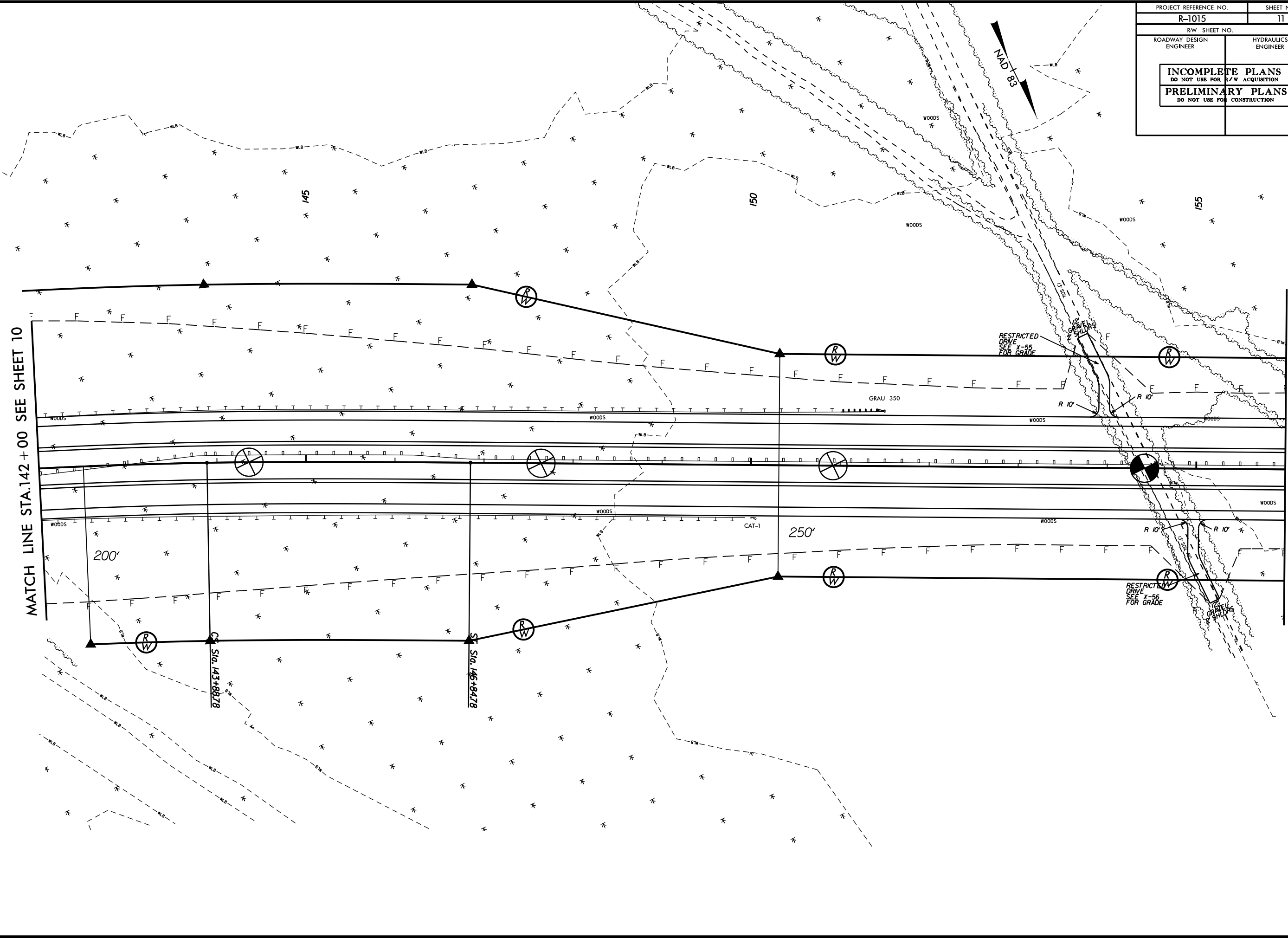
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<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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PROJECT REFERENCE NO.	SHEET NO.
R-1015	11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



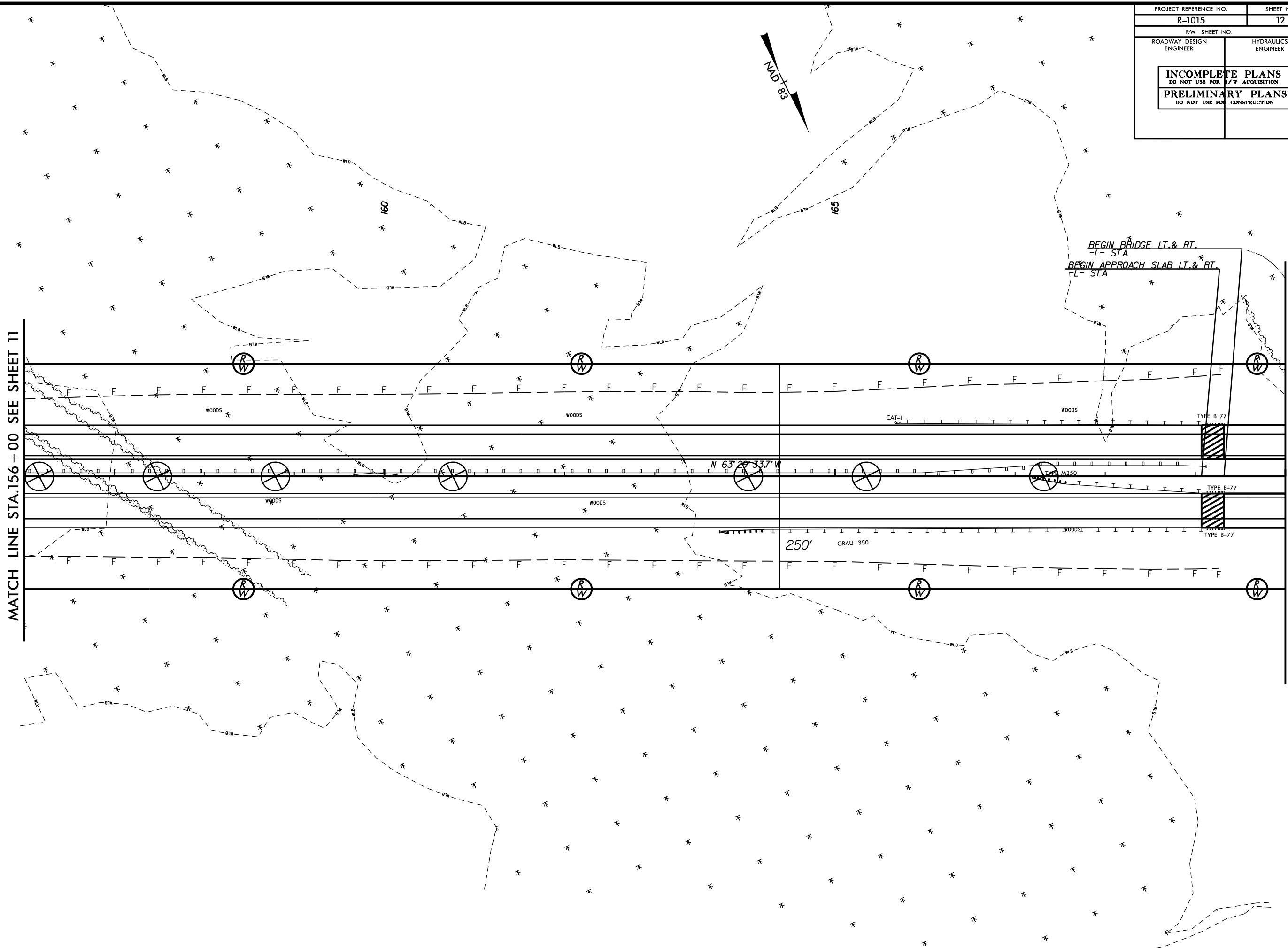
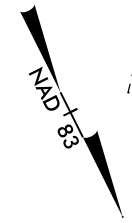
MATCH LINE STA. 142 + 00 SEE SHEET 10

MATCH LINE STA. 156 + 00 SEE SHEET 12

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PROJECT REFERENCE NO.	SHEET NO.
R-1015	12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



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MATCH LINE STA. 156+00 SEE SHEET 11

MATCH LINE STA. 170+00 SEE SHEET 13



PROJECT REFERENCE NO.	SHEET NO.
R-1015	13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

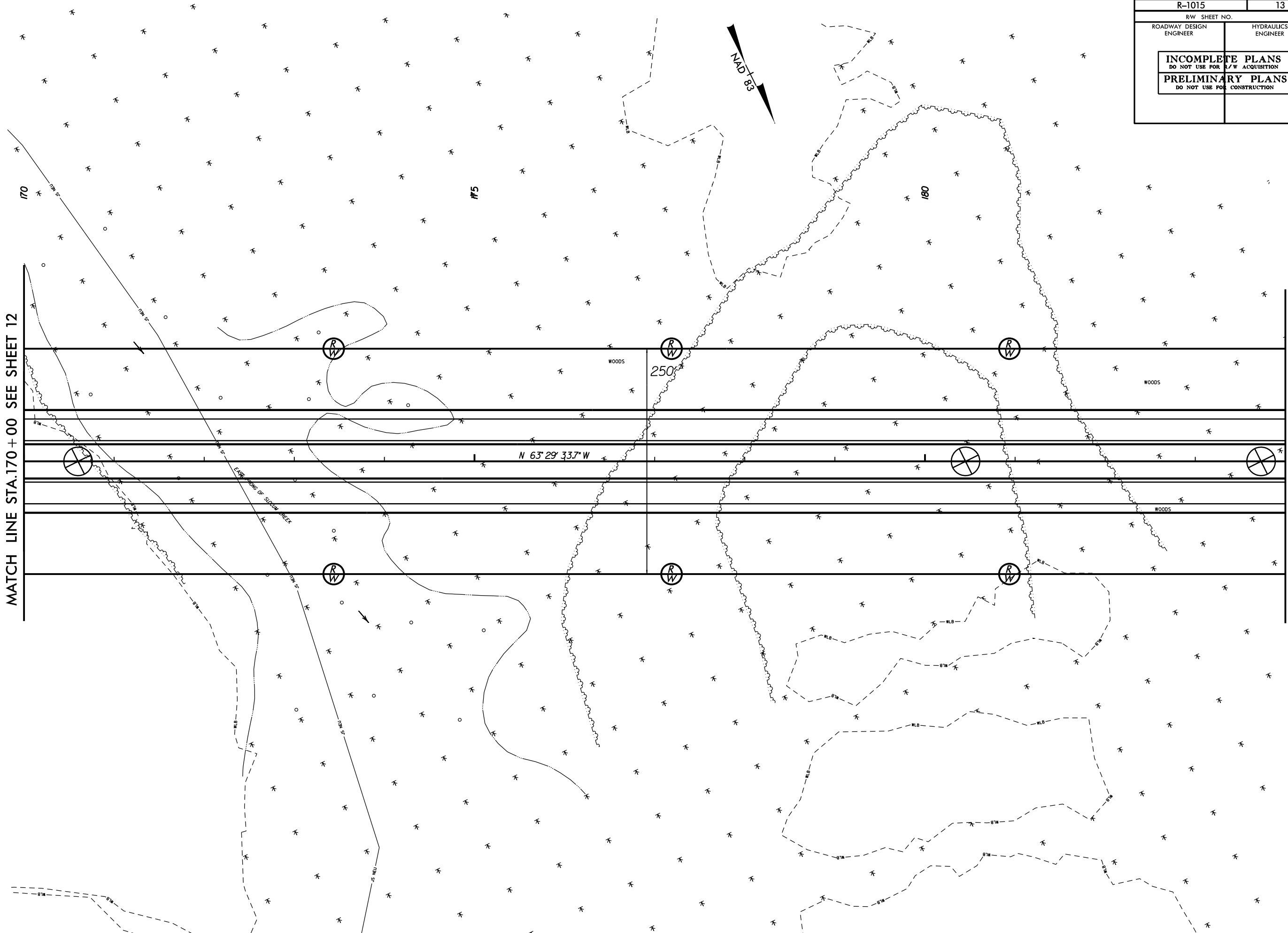
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MATCH LINE STA.170+00 SEE SHEET 12

MATCH LINE STA.184+00 SEE SHEET 14



170

175

180

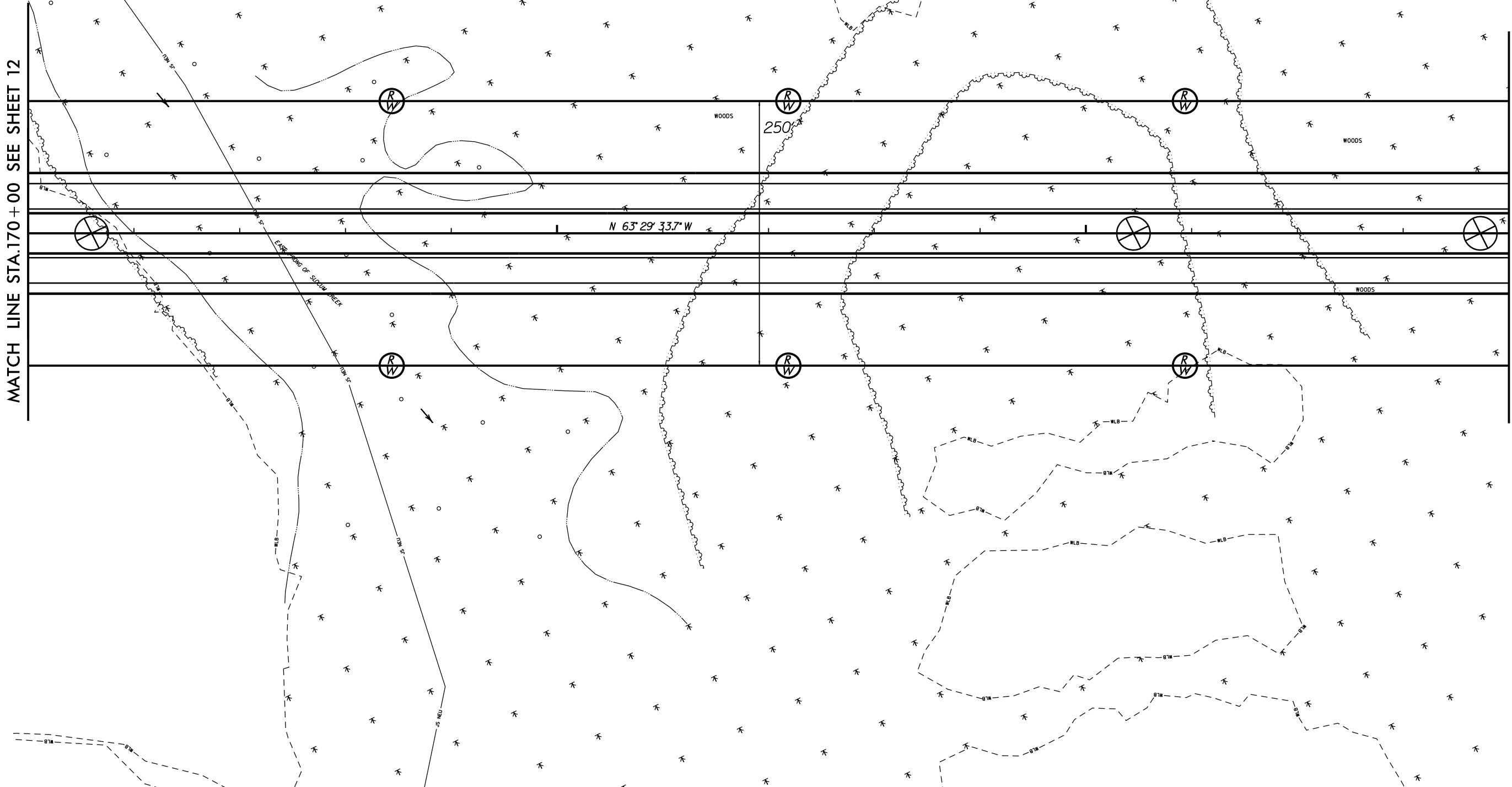
250

N 63° 29' 33.7\"/>

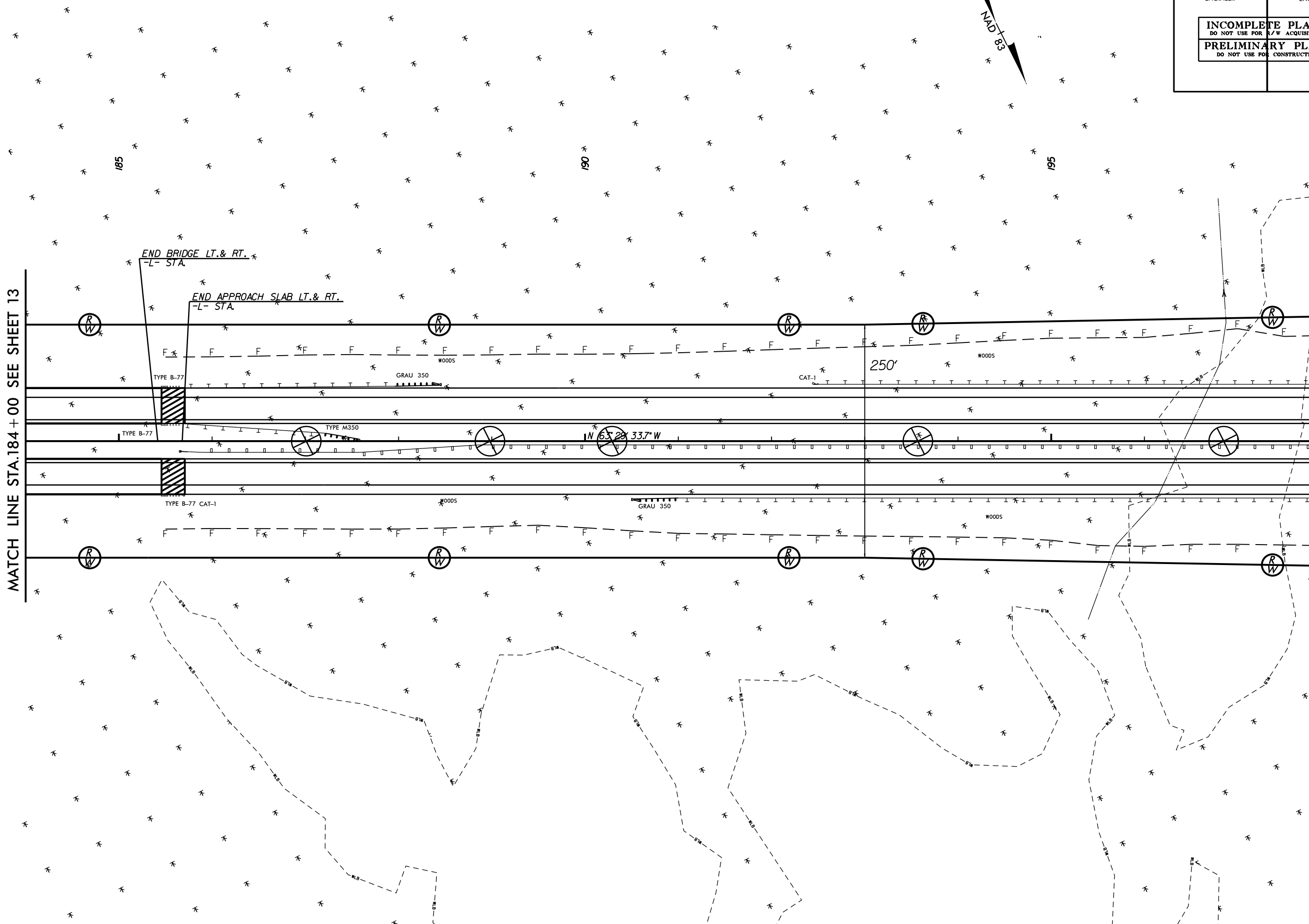
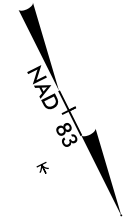
WOODS

WOODS

WOODS



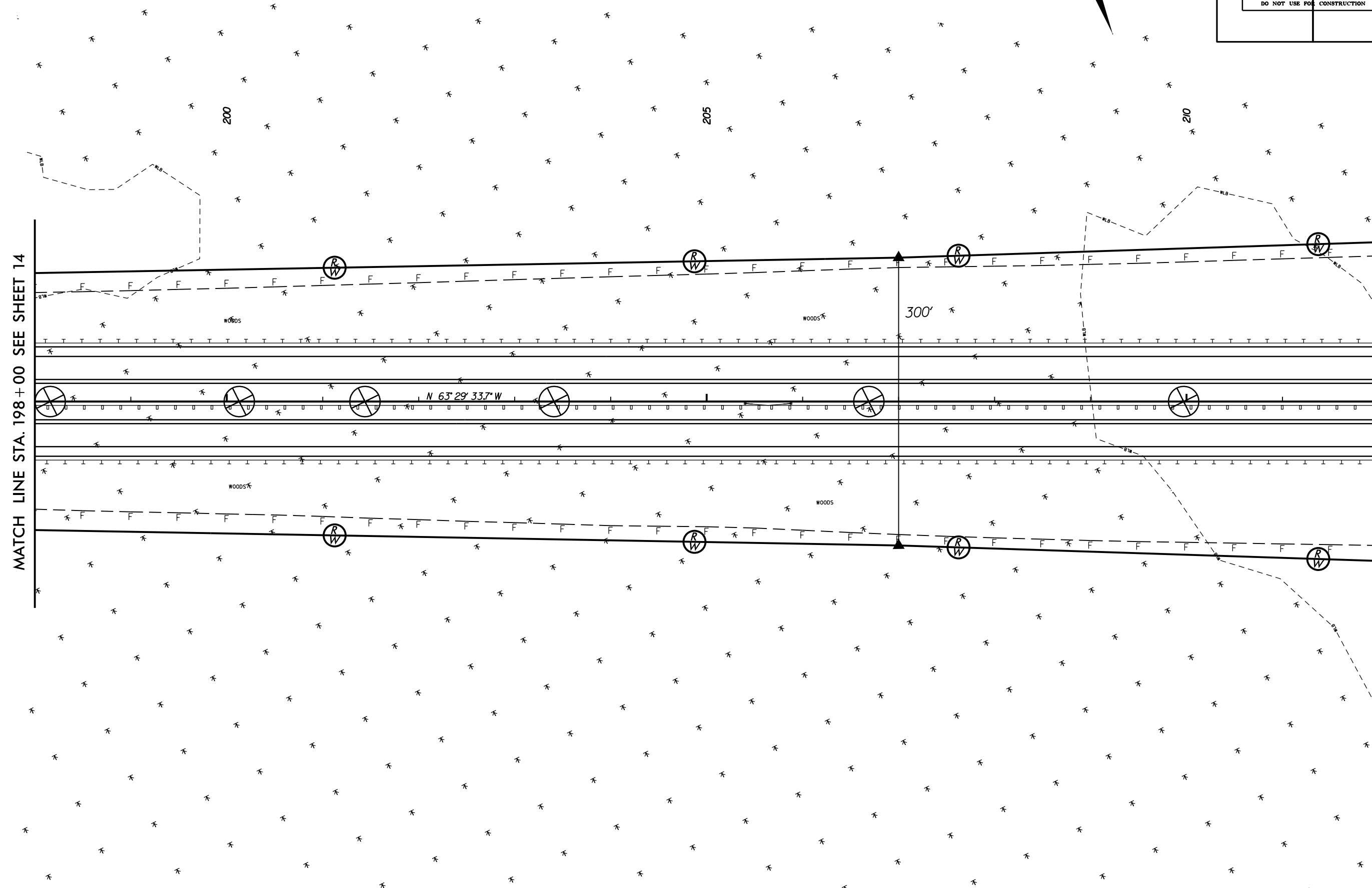
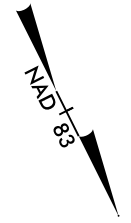
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R-1015	14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



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PROJECT REFERENCE NO.	SHEET NO.
R-1015	15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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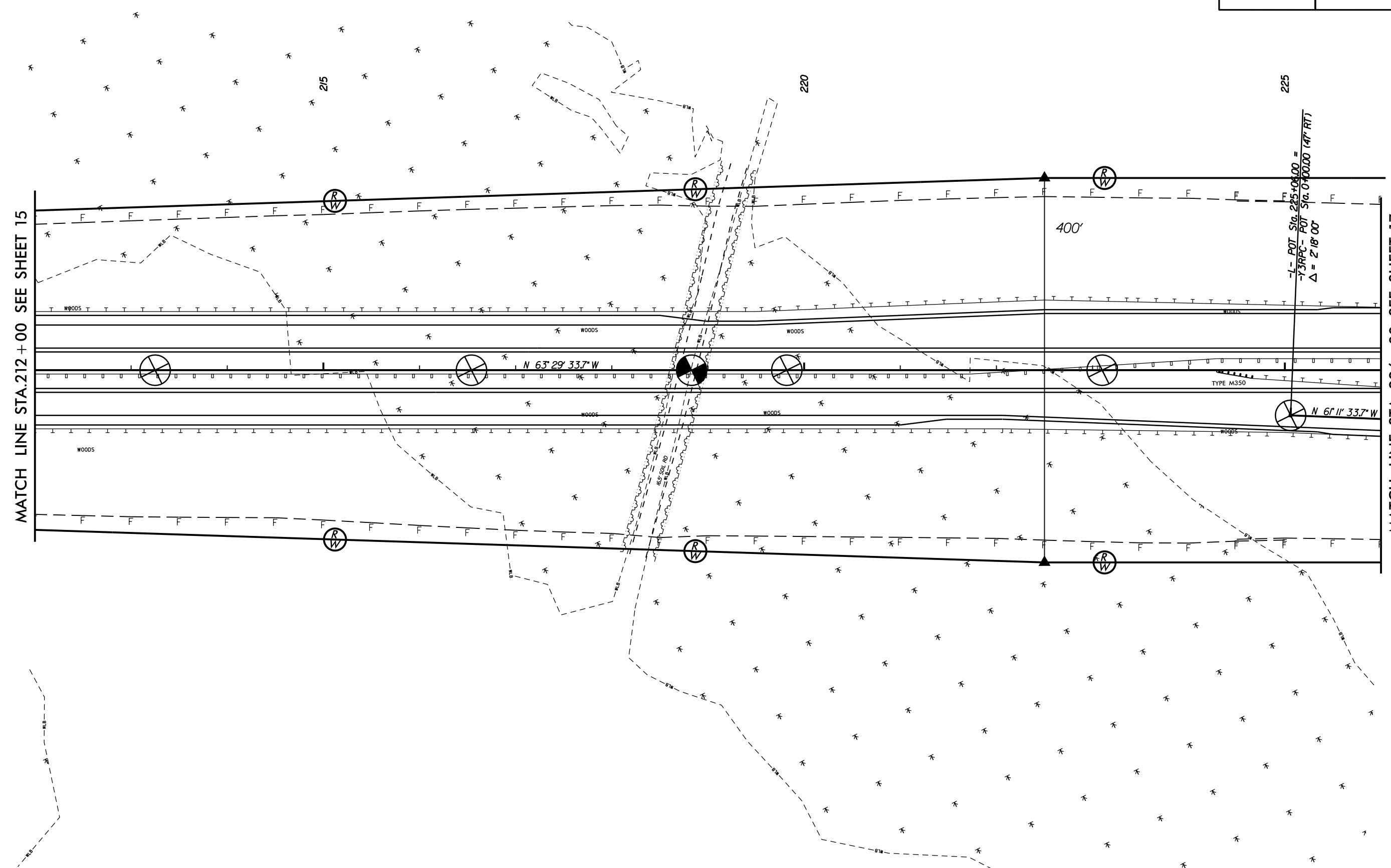
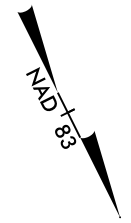
MATCH LINE STA. 198 + 00 SEE SHEET 14

MATCH LINE STA. 212 + 00 SEE SHEET 16

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PROJECT REFERENCE NO.	SHEET NO.
R-1015	16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

04-MAR-2015 10:38  
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 8/17/99

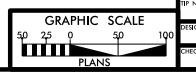
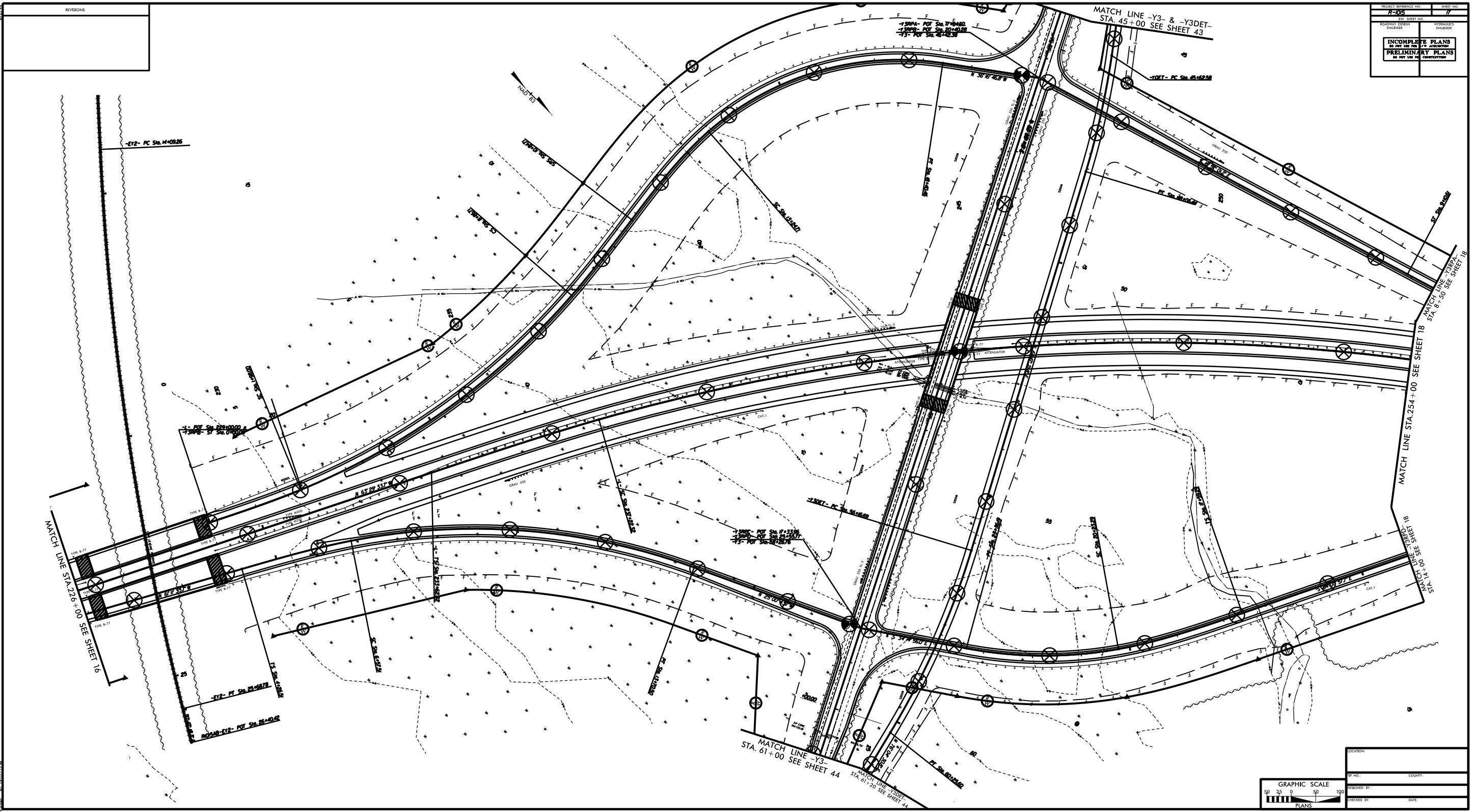
MATCH LINE STA. 212 + 00 SEE SHEET 15

MATCH LINE STA. 226 + 00 SEE SHEET 17

-L- POT Sta. 225+04.00 =  
 -Y3RPC- POT Sta. 0+00.00 (4' RT)  
 Δ = 2'18" 00"

REVISIONS

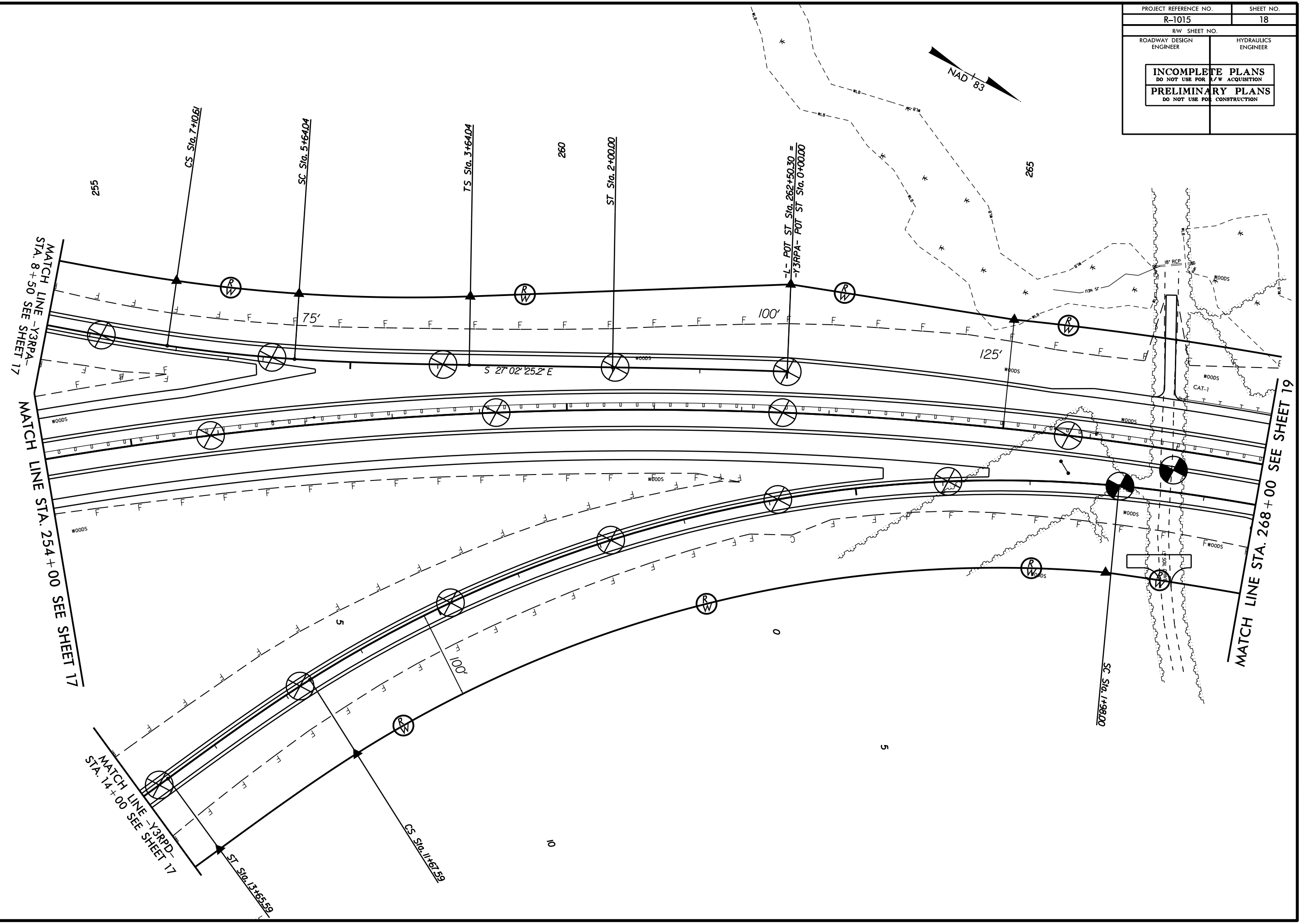
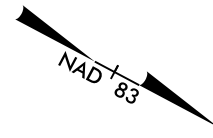
PROJECT REFERENCE NO.	SHEET NO.
R-105	17
DESIGNED BY	CHECKED BY
DATE	DATE
<b>INCOMPLETE PLANS</b> DO NOT USE FOR CONSTRUCTION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



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

10/11/2011 10:00 AM  
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 10/11/2011 10:00 AM  
 C:\Users\jgarcia\Documents\Projects\105\105-17\105-17.dwg

PROJECT REFERENCE NO.	SHEET NO.
R-1015	18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

04-MAR-2015 10:38  
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 8/17/99

MATCH LINE -Y3RPA-  
STA. 8+50 SEE SHEET 17

MATCH LINE STA. 254+00 SEE SHEET 17

MATCH LINE -Y3RPD-  
STA. 14+00 SEE SHEET 17

MATCH LINE STA. 268+00 SEE SHEET 19

CS Sta. 7+1061

SC Sta. 5+64.04

TS Sta. 3+64.04

ST Sta. 2+00.00

-L- POT ST Sta. 262+50.30 =  
-7.3RPA- POT ST Sta. 0+00.00

CS Sta. 1986+00

ST Sta. 13+65.59

CS Sta. 1167.59

255

260

265

S 27° 02' 25.2" E

125'

100'

75'

100'

10

5

0

WOODS

WOODS

WOODS

WOODS

WOODS

WOODS

WOODS

WOODS

WOODS

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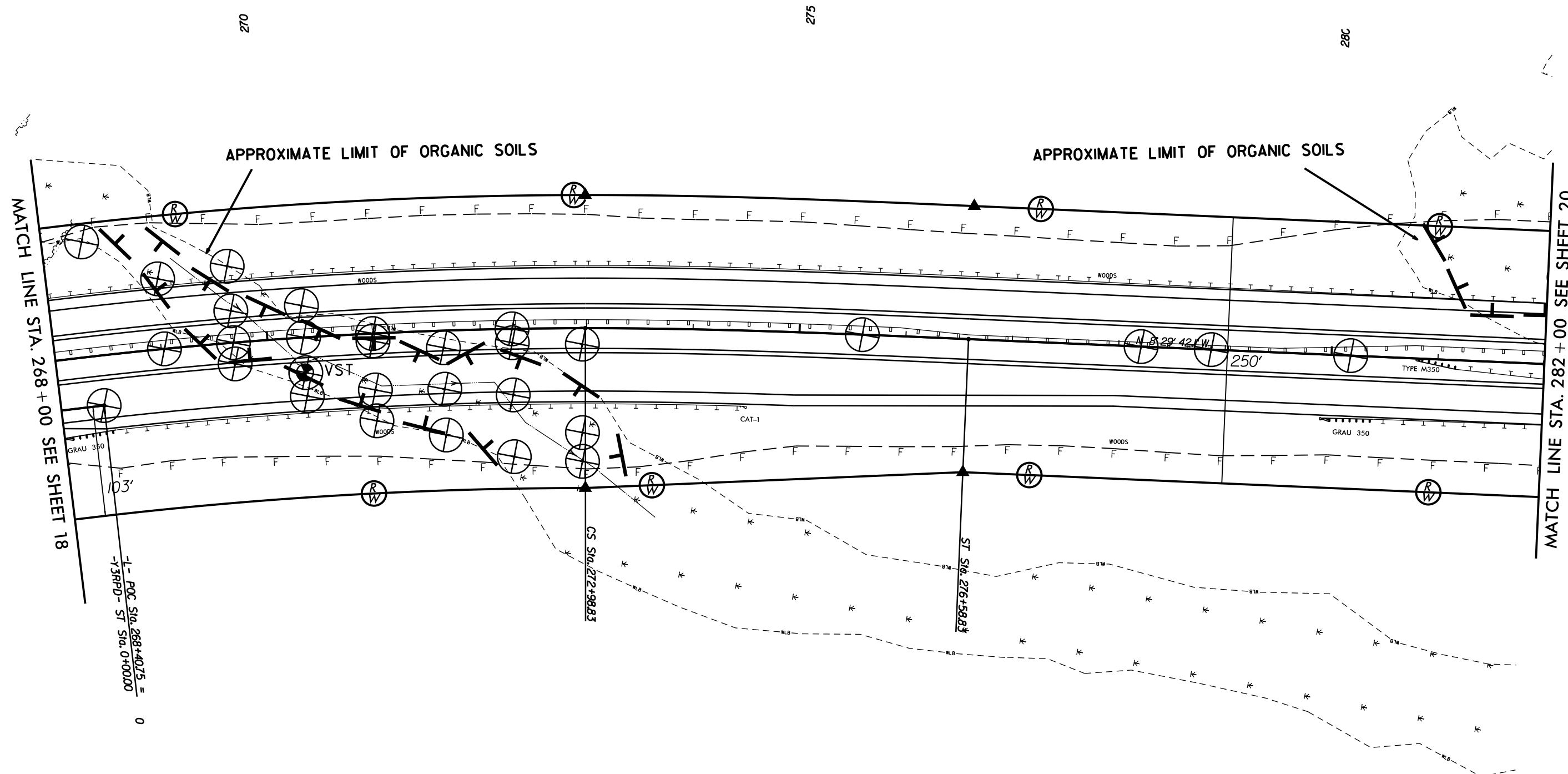
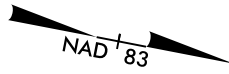
WOODS

WOODS

WOODS

WOODS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

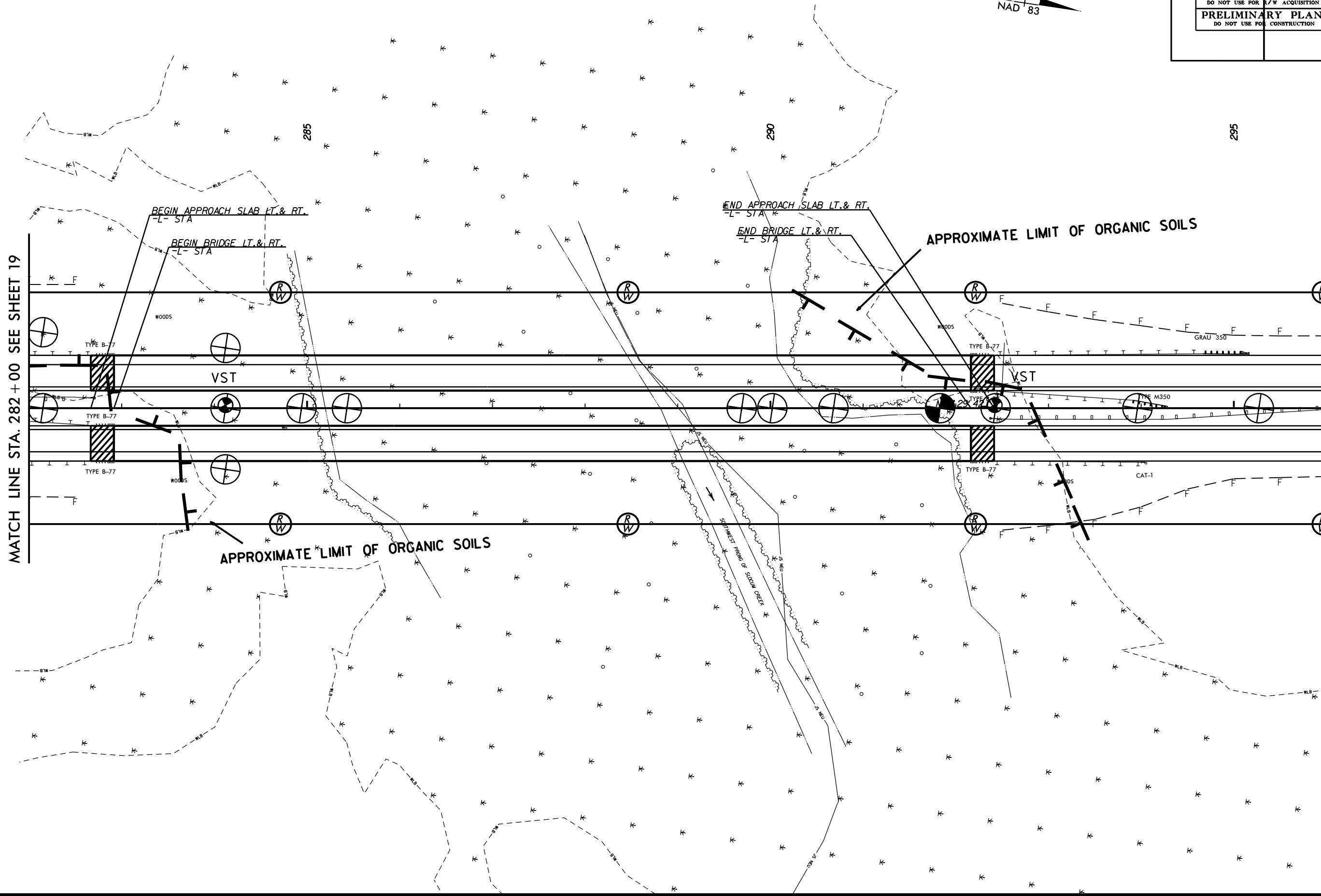
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 8/17/99

$$\begin{aligned}
 & -1- \text{POC STA. } 268+407.5 = 0 \\
 & -Y3RPD- \text{ST STA. } 0+000.00
 \end{aligned}$$

04-MAR-2015 10:38  
L:\ERD\Greenville\Investigation\TIP\1015.GEO\RDWY\_REV1\_2012\CADD\GEO\TECH\Site&Sub\1-1015\_rdy\_psh20.dgn  
8/17/99

REVISIONS

MATCH LINE STA. 282 + 00 SEE SHEET 19

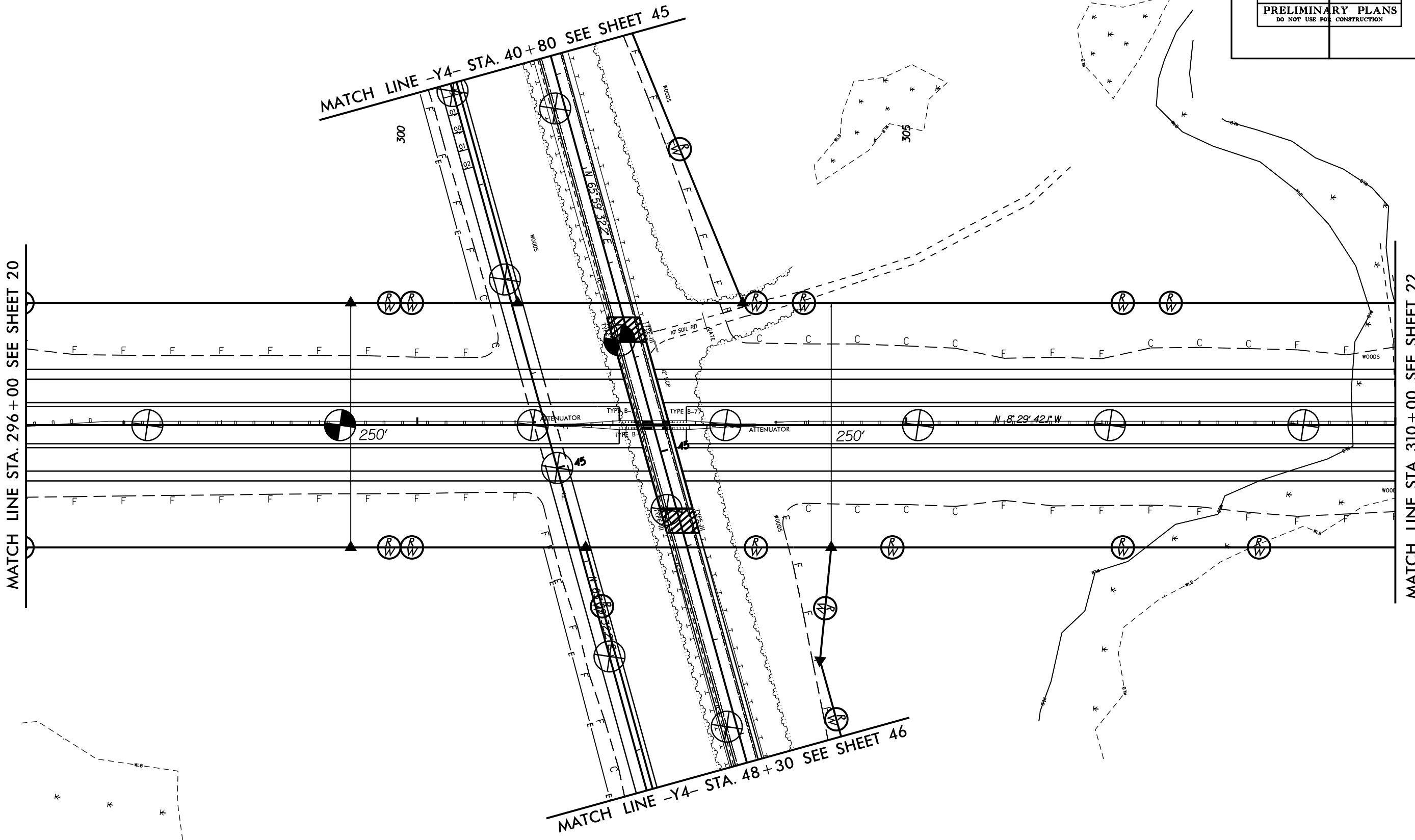
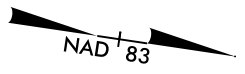


MATCH LINE STA. 296 + 00 SEE SHEET 21

PROJECT REFERENCE NO.	SHEET NO.
R-1015	20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



PROJECT REFERENCE NO.	SHEET NO.
R-1015	21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

04-MAR-2015 10:38  
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 8/17/99

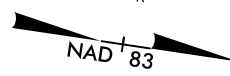
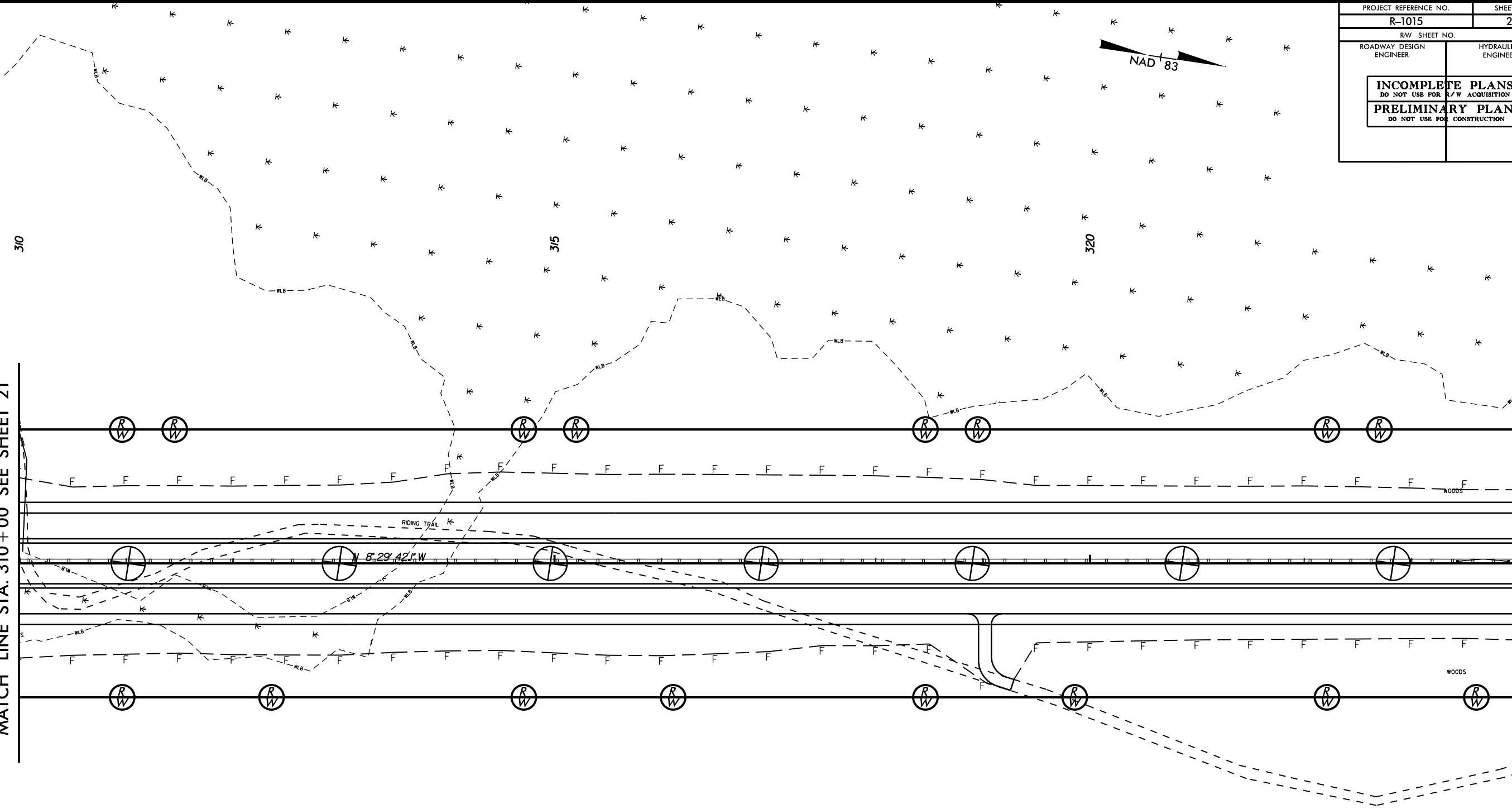
8/17/99

04-MAR-2015 10:38  
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c:\user\at\at\1627230

REVISIONS

MATCH LINE STA. 310 + 00 SEE SHEET 21

310

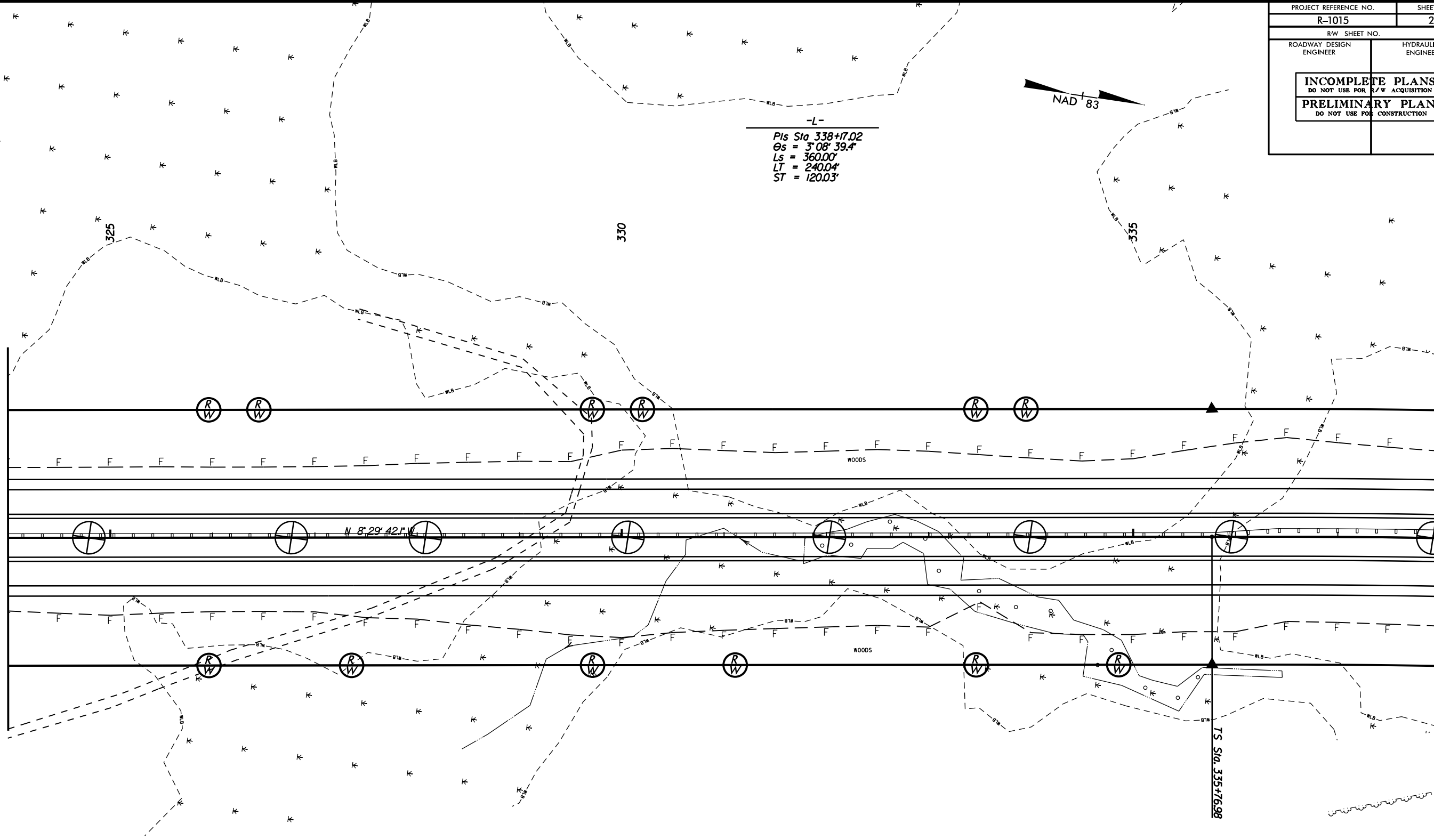


PROJECT REFERENCE NO.	SHEET NO.
R-1015	22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

MATCH LINE STA. 324 + 00 SEE SHEET 23

REVISIONS

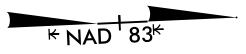
MATCH LINE STA. 324 + 00 SEE SHEET 22



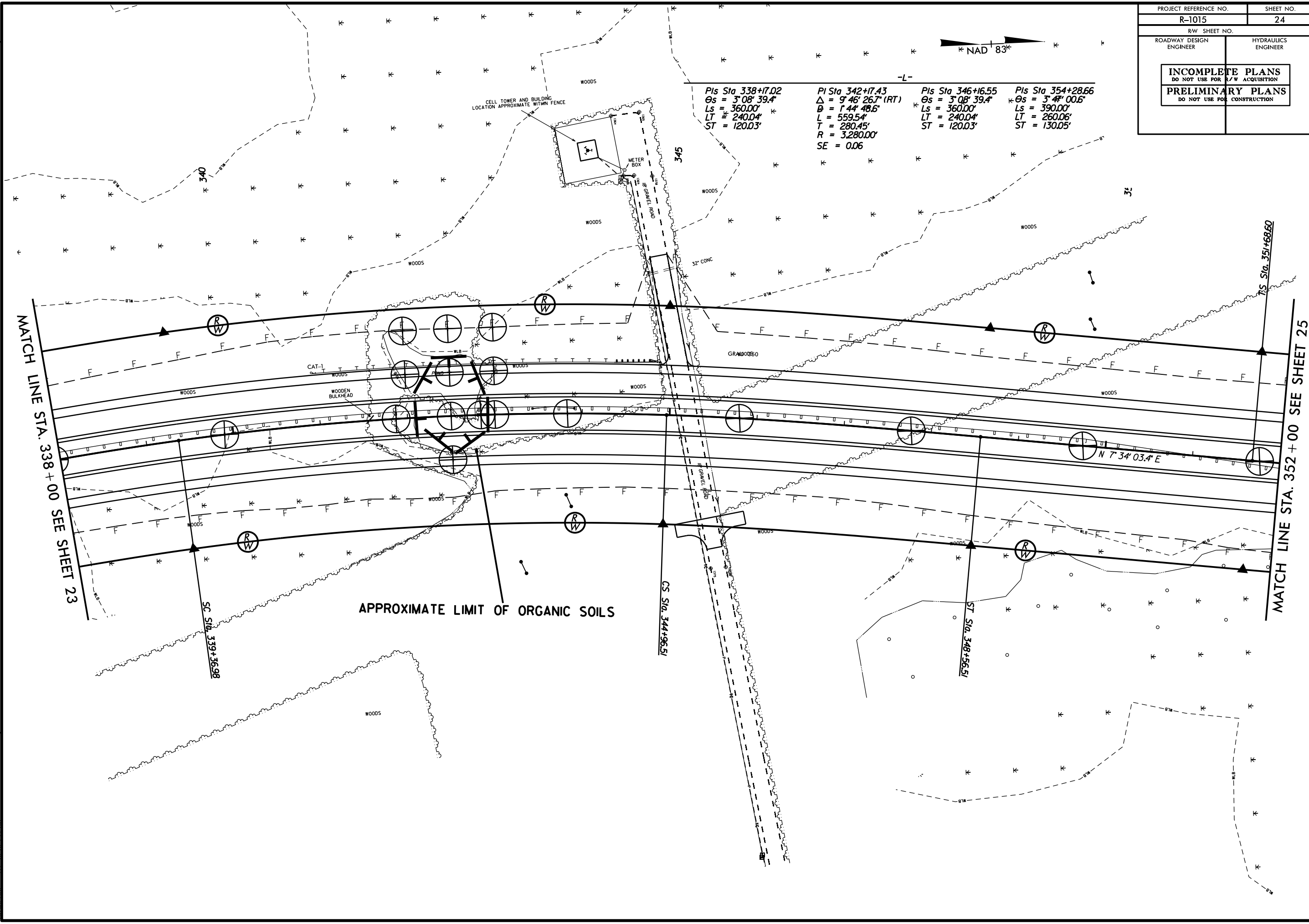
MATCH LINE STA. 338 + 00 SEE SHEET 24

PROJECT REFERENCE NO.	SHEET NO.
R-1015	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

PROJECT REFERENCE NO.	SHEET NO.
R-1015	24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



PIs Sta 338+17.02      PI Sta 342+17.43      PIs Sta 346+16.55      PIs Sta 354+28.66  
 $\Theta_s = 3^{\circ}08'39.4''$        $\Delta = 9^{\circ}46'26.7''$  (RT)       $\Theta_s = 3^{\circ}08'39.4''$        $\Theta_s = 3^{\circ}47'00.6''$   
 $L_s = 360.00'$        $B = 1^{\circ}44'48.6''$        $L_s = 360.00'$        $L_s = 390.00'$   
 $LT = 240.04'$        $L = 559.54'$        $LT = 240.04'$        $LT = 260.06'$   
 $ST = 120.03'$        $T = 280.45'$        $ST = 120.03'$        $ST = 130.05'$   
                                   $R = 3,280.00'$        $SE = 0.06$



REVISIONS

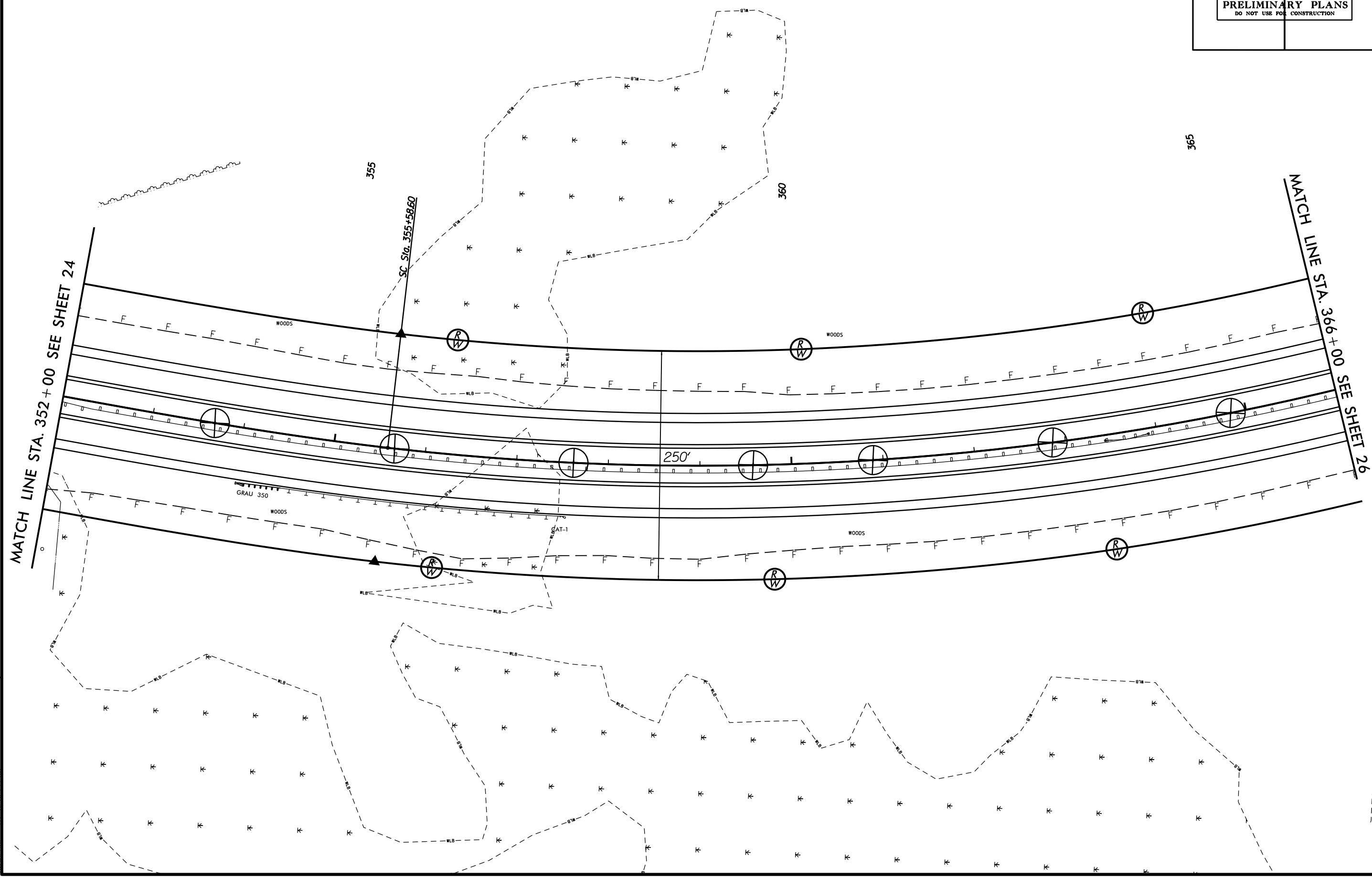
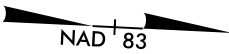
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 8/17/99

APPROXIMATE LIMIT OF ORGANIC SOILS

MATCH LINE STA. 338+00 SEE SHEET 23

MATCH LINE STA. 352+00 SEE SHEET 25

PROJECT REFERENCE NO.	SHEET NO.
R-1015	25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



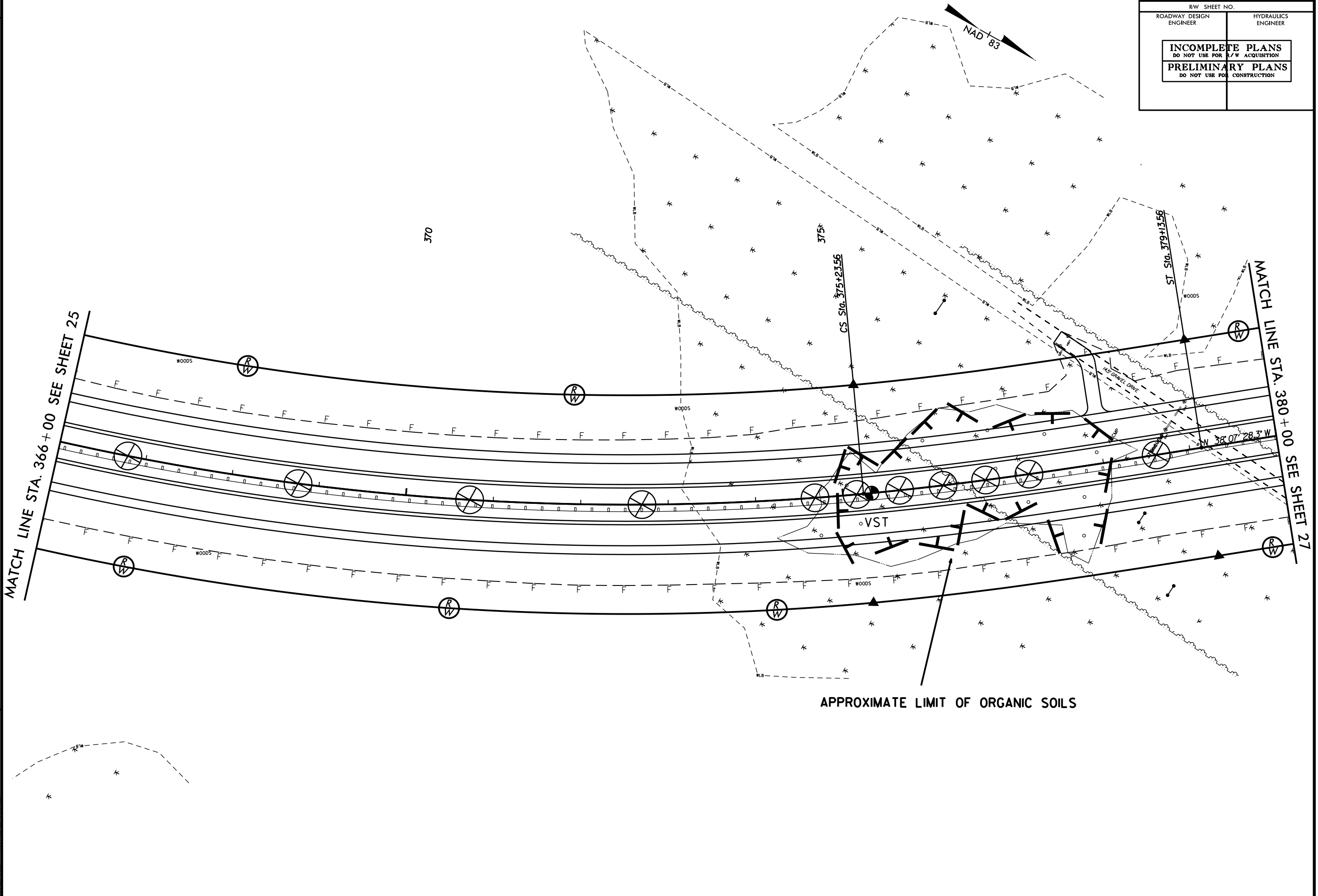
REVISIONS

04-MAR-2015 10:38  
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 8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

04-MAR-2015 10:38  
 L:\ERD\Green\116\_Investigation\TIP\1015\_GEO\_RDWY\_REV1\_2012\CADD\_GEO\TECH\Site&Sub\1-1015\_rdy\_psh26.dgn  
 8/17/99

REVISIONS



MATCH LINE STA. 366 + 00 SEE SHEET 25

MATCH LINE STA. 380 + 00 SEE SHEET 27

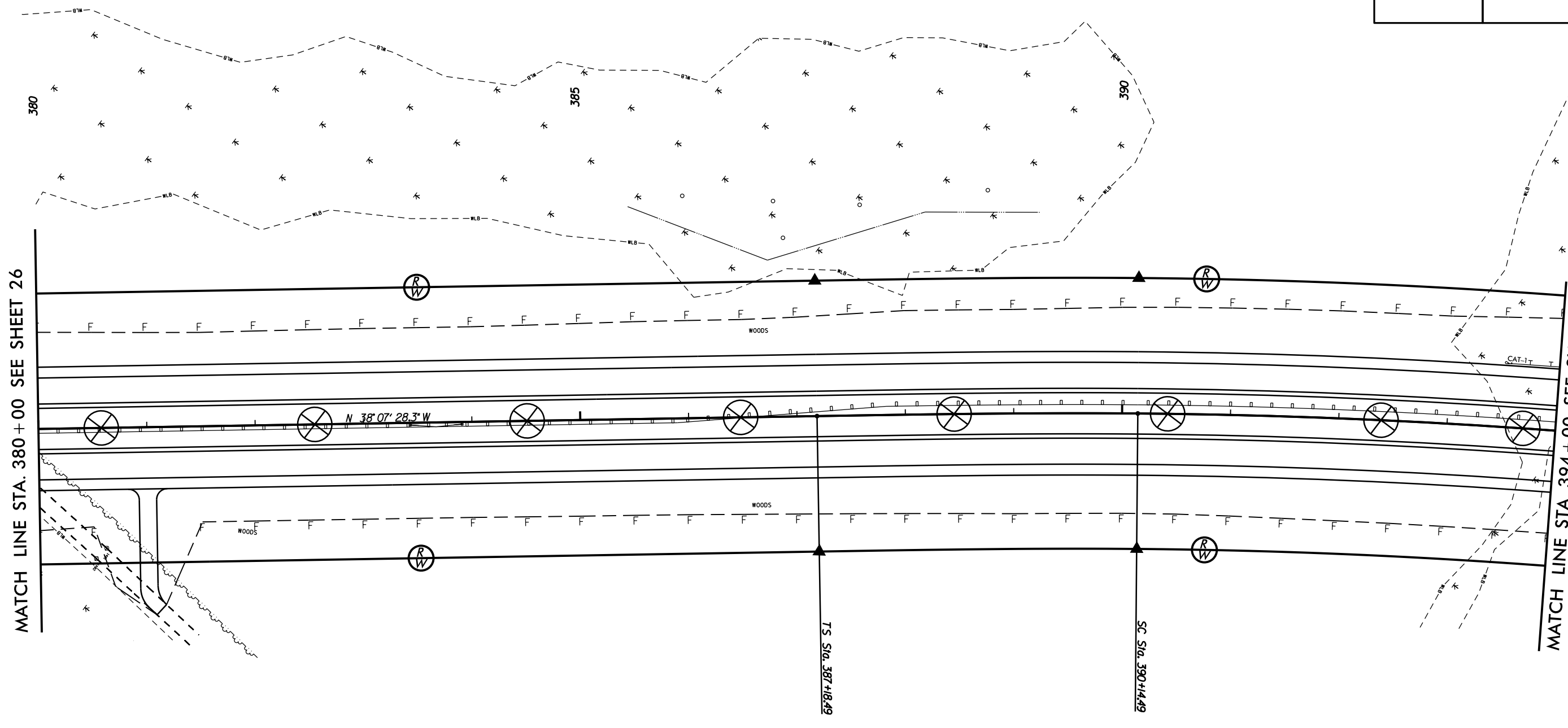
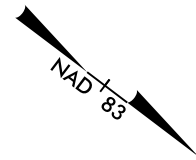
APPROXIMATE LIMIT OF ORGANIC SOILS

8/17/99

04-MAR-2015 10:38  
L:\ERD\Green\116\_investigation\TIP\AR1015\_GEO\_RDWY\_REV1\_2012\CADD\_GEO\TECH\Site&Sub\Ar-1015\_rdy\_psh27.dgn  
continued AT 11617230

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



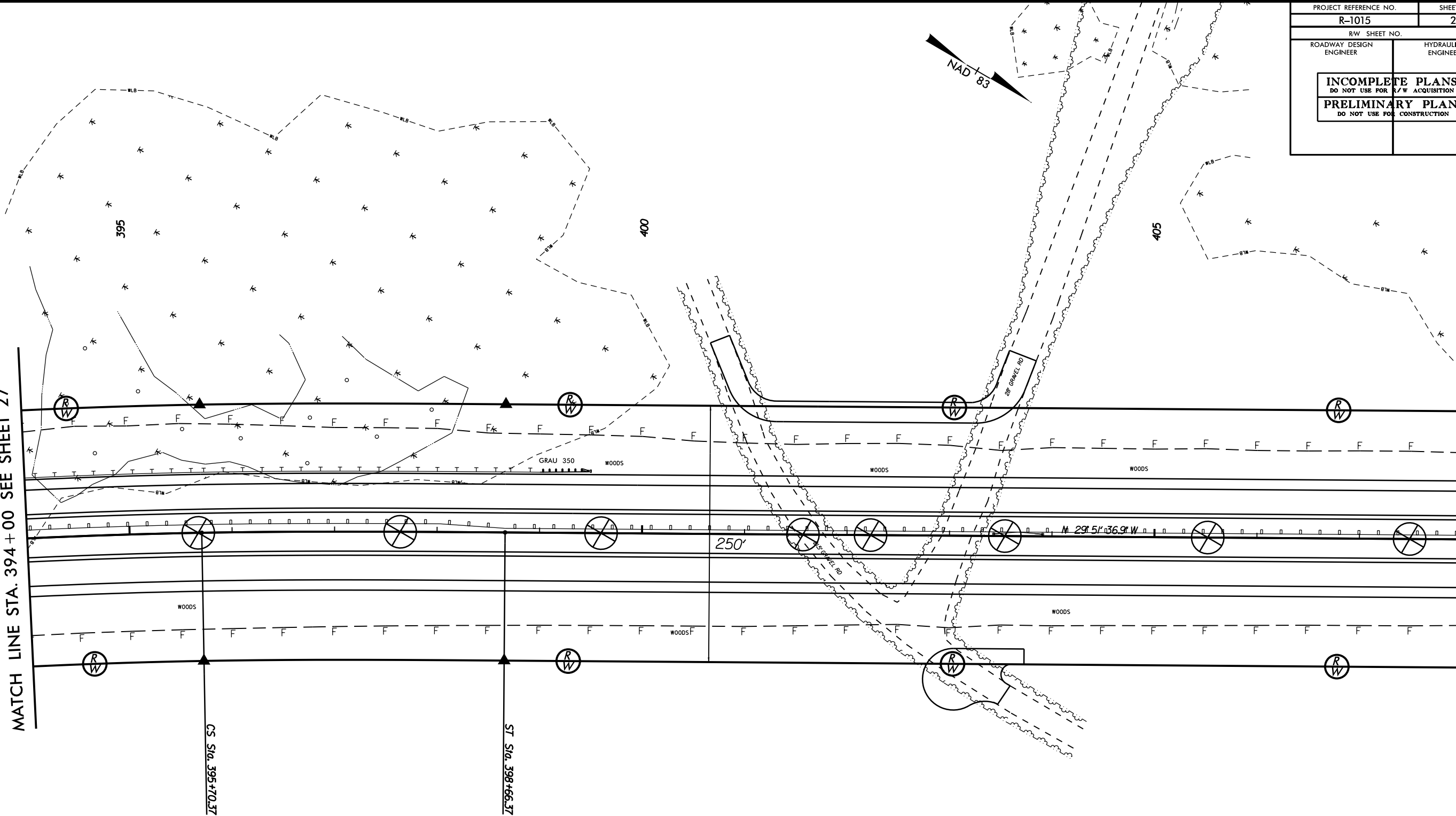
MATCH LINE STA. 380 + 00 SEE SHEET 26

MATCH LINE STA. 394 + 00 SEE SHEET 28

REVISIONS

MATCH LINE STA. 394 + 00 SEE SHEET 27

MATCH LINE STA. 408 + 00 SEE SHEET 29



PROJECT REFERENCE NO.	SHEET NO.
R-1015	28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

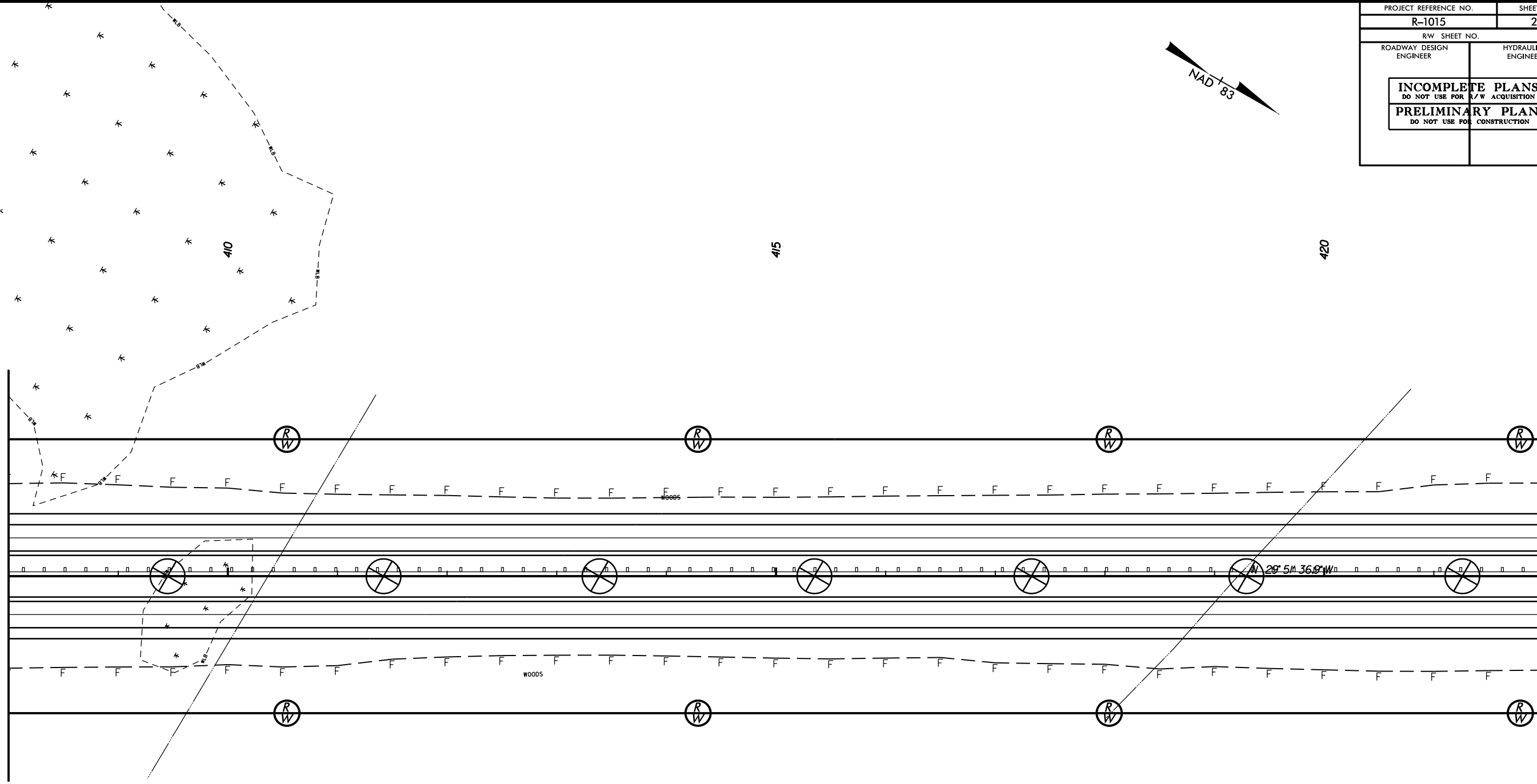


8/17/99

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continued at 10/27/230

REVISIONS

MATCH LINE STA. 408+00 SEE SHEET 28



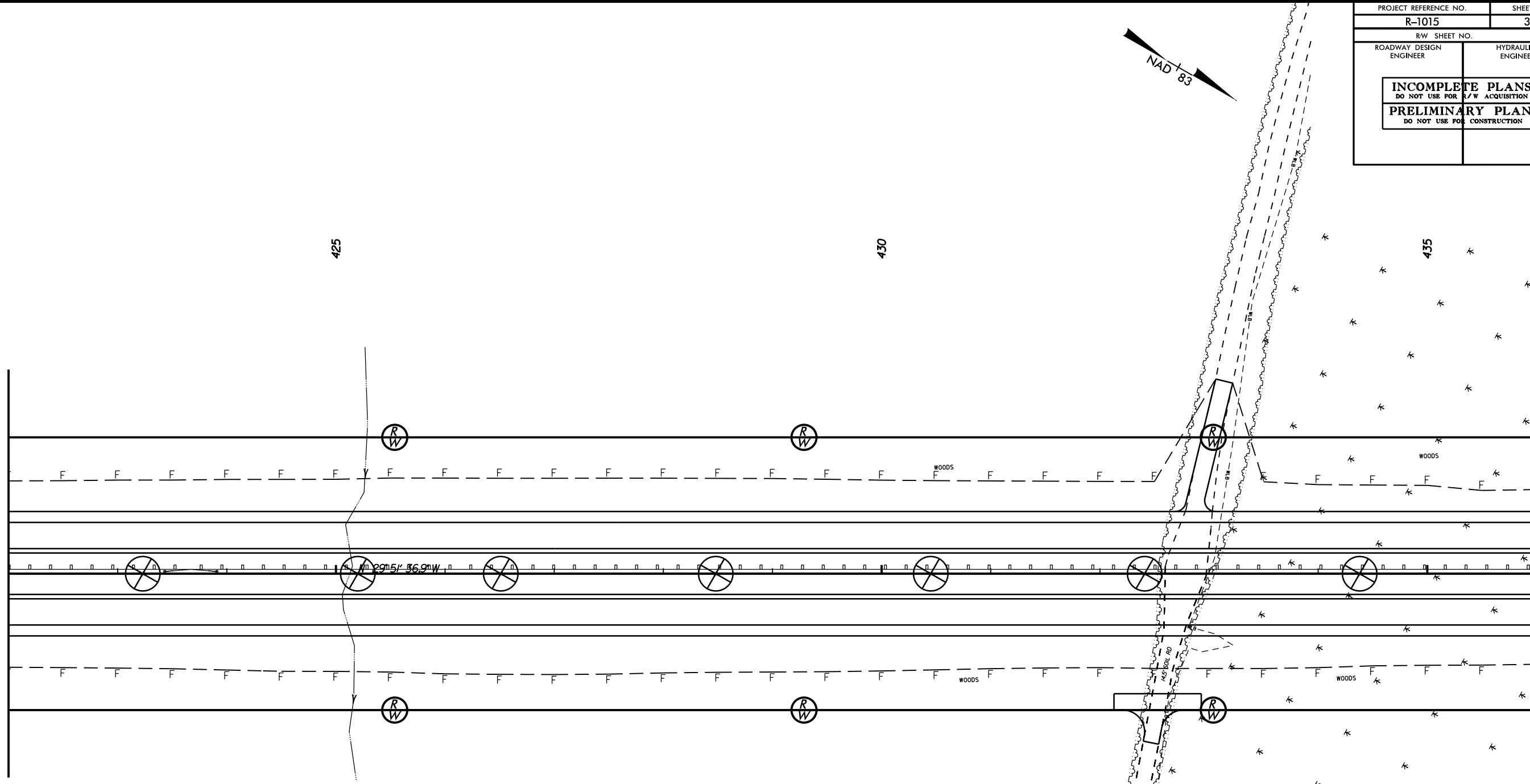
MATCH LINE STA. 422+00 SEE SHEET 30

PROJECT REFERENCE NO.	SHEET NO.
R-1015	29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

04-MAR-2015 10:38  
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8/17/99

REVISIONS

MATCH LINE STA. 422 + 00 SEE SHEET 29



MATCH LINE STA. 436 + 00 SEE SHEET 31

PROJECT REFERENCE NO.	SHEET NO.
R-1015	30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

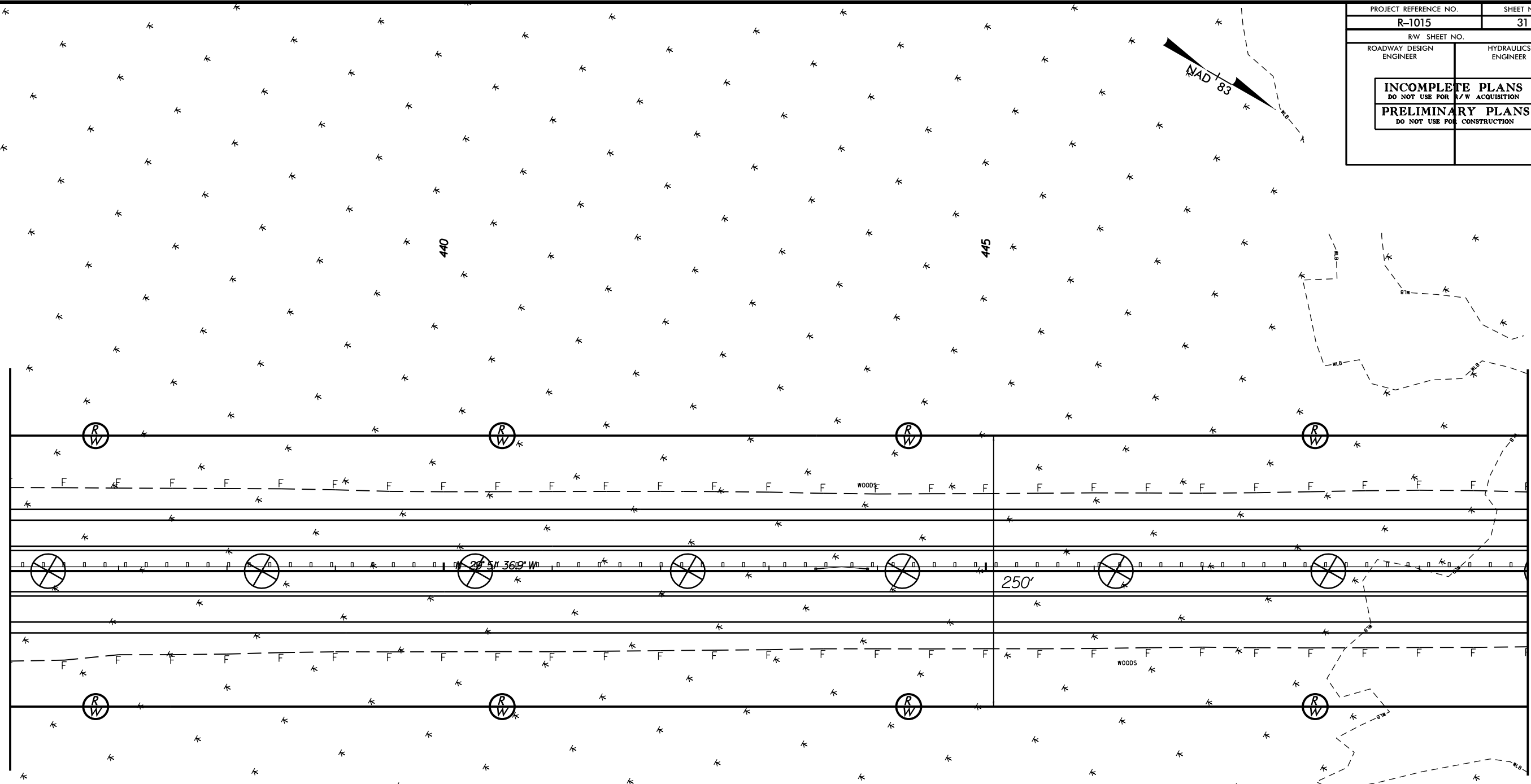
8/17/99

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continued AT 1077230

REVISIONS

MATCH LINE STA. 436 + 00 SEE SHEET 30

MATCH LINE STA. 450 + 00 SEE SHEET 32

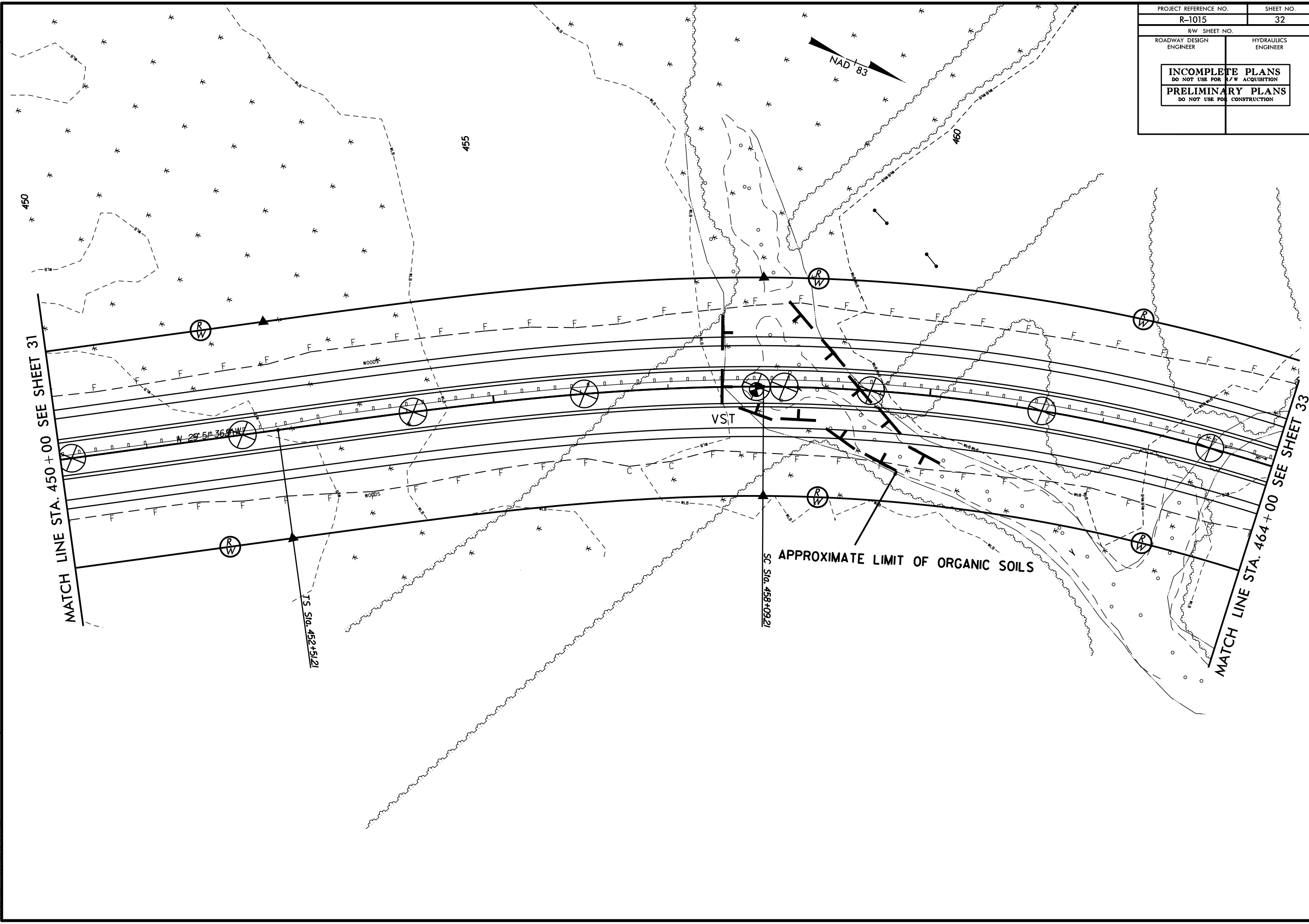


PROJECT REFERENCE NO. <b>R-1015</b>	SHEET NO. <b>31</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

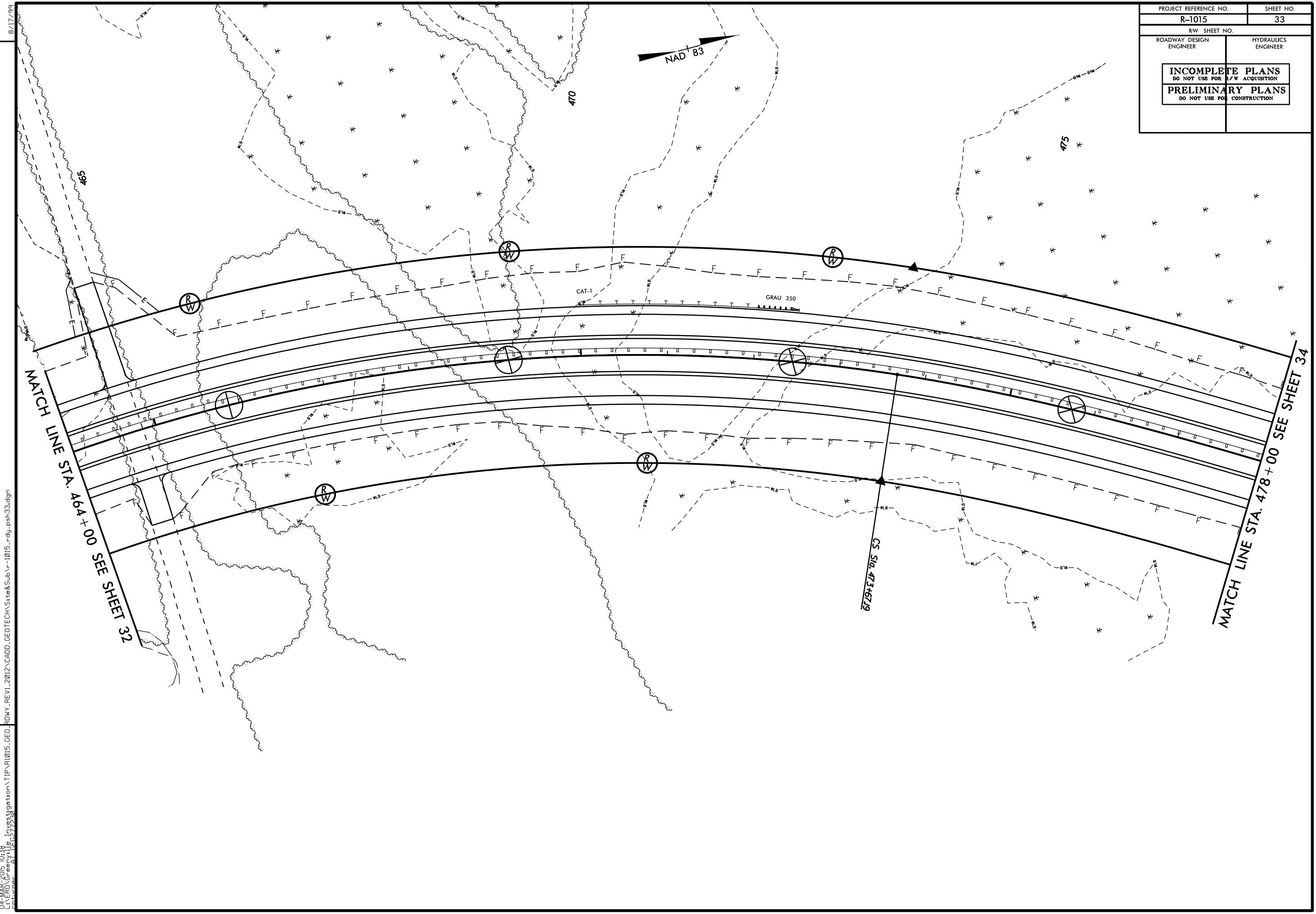
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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



PROJECT REFERENCE NO.	SHEET NO.
R-1015	33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

04-MAR-2015 10:38  
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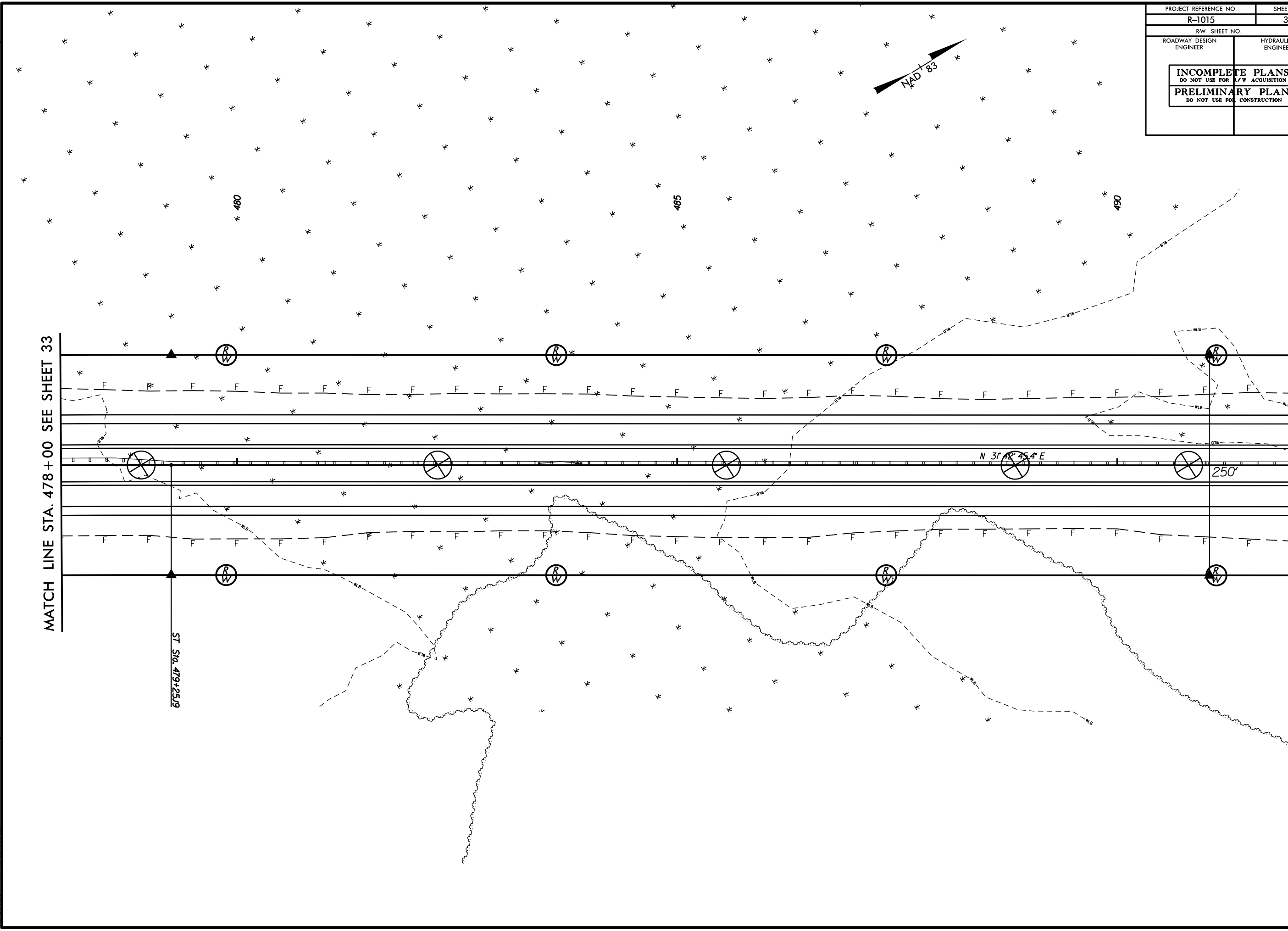
8/17/99

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c:\user\at\at\p27230

REVISIONS

MATCH LINE STA. 478 + 00 SEE SHEET 33

MATCH LINE STA. 492 + 00 SEE SHEET 35



PROJECT REFERENCE NO.	SHEET NO.
R-1015	34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

8/17/99

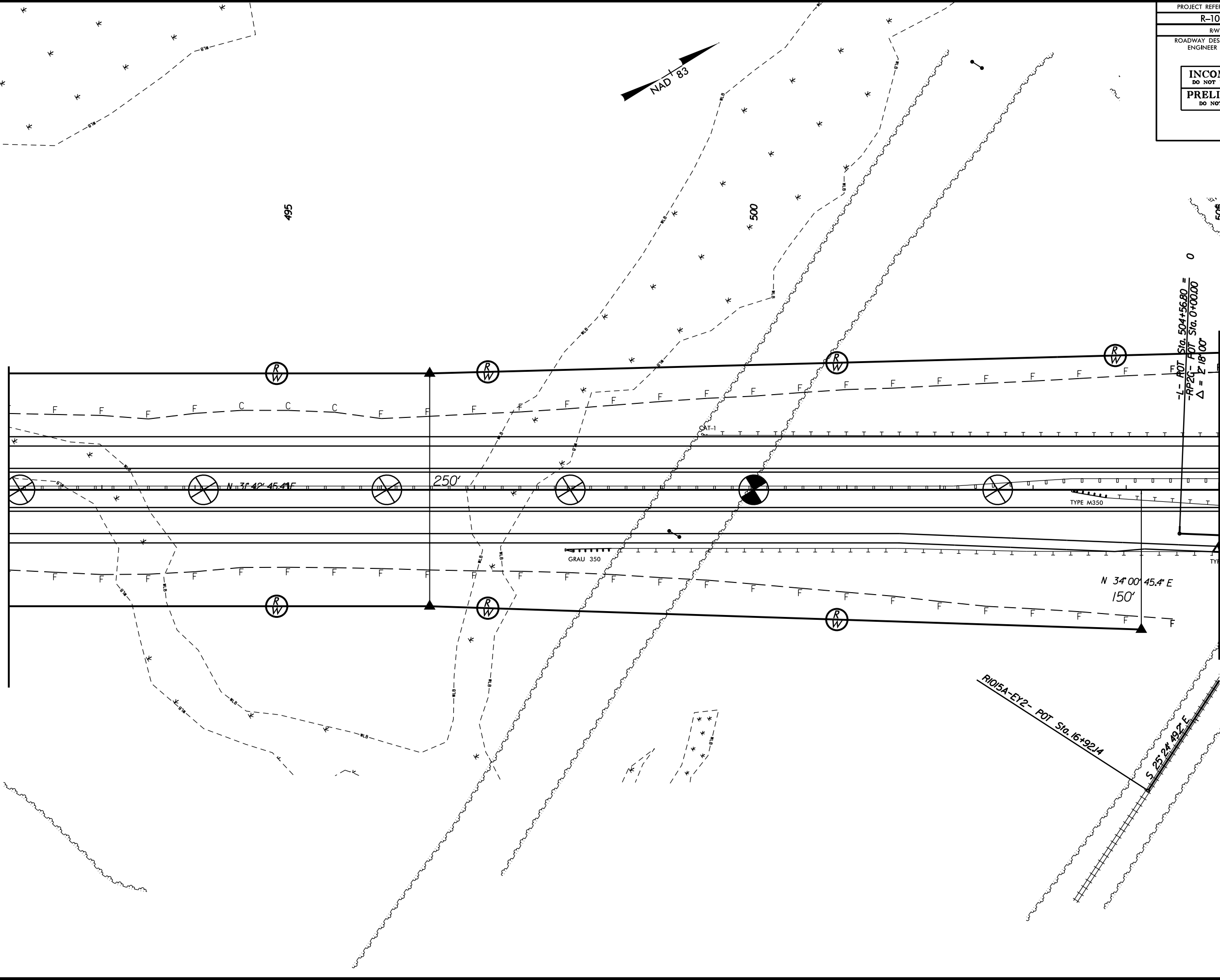
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REVISIONS

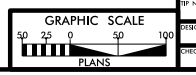
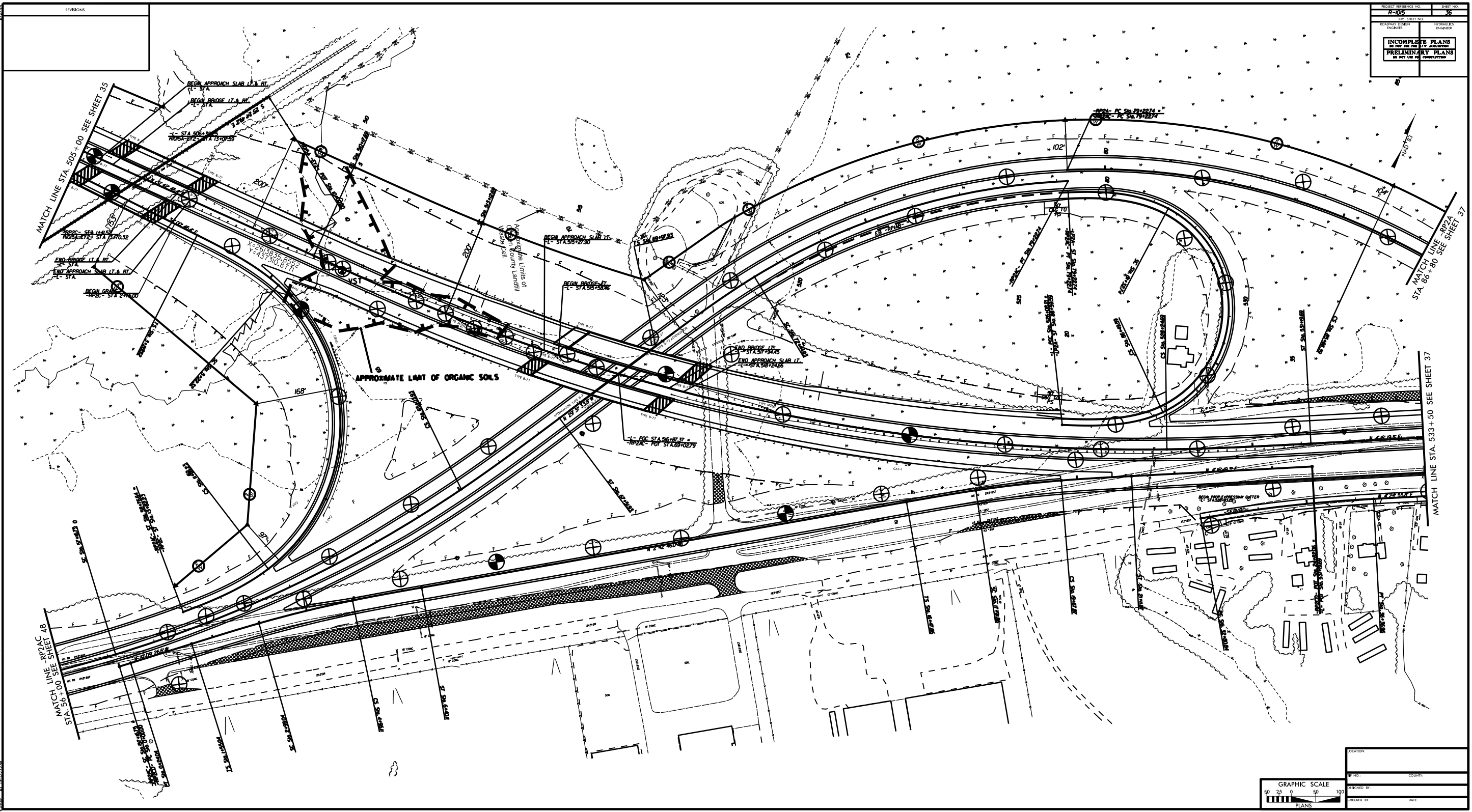
PROJECT REFERENCE NO.	SHEET NO.
R-1015	35
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

MATCH LINE STA. 492 + 00 SEE SHEET 34

MATCH LINE STA. 505 + 00 SEE SHEET 36



$-L - POT Sta. 504+56.80 =$   
 $-RP20 - POT Sta. 0+000.00$   
 $\Delta = 2' 18" 00"$



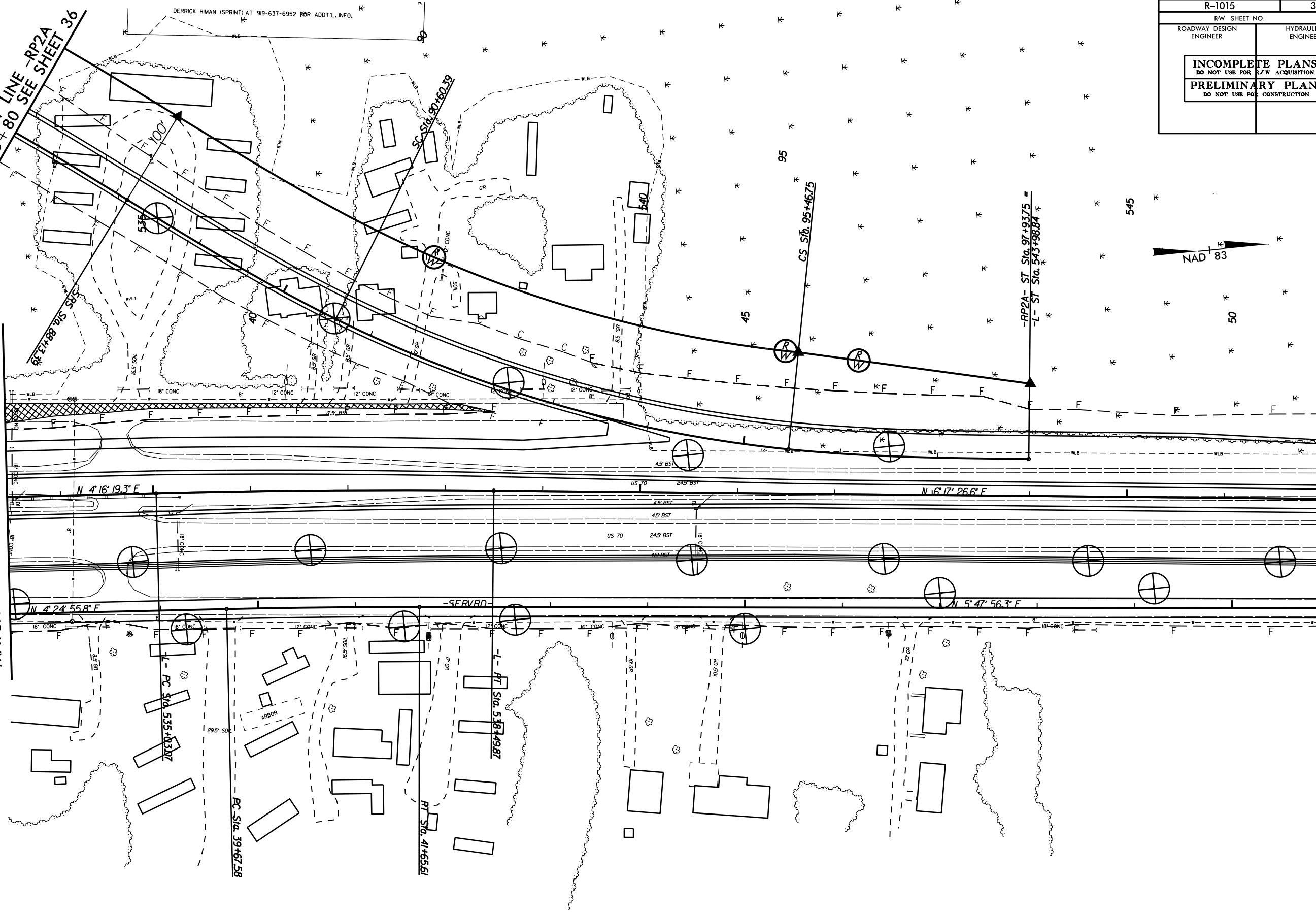
LOCATION:	NO.	COUNTY:
DESIGNED BY:	DATE:	
CHECKED BY:	DATE:	



REVISIONS

MATCH LINE STA. 533 + 50 SEE SHEET 36

MATCH LINE - RP2A  
STA. 86 + 80 SEE SHEET 36

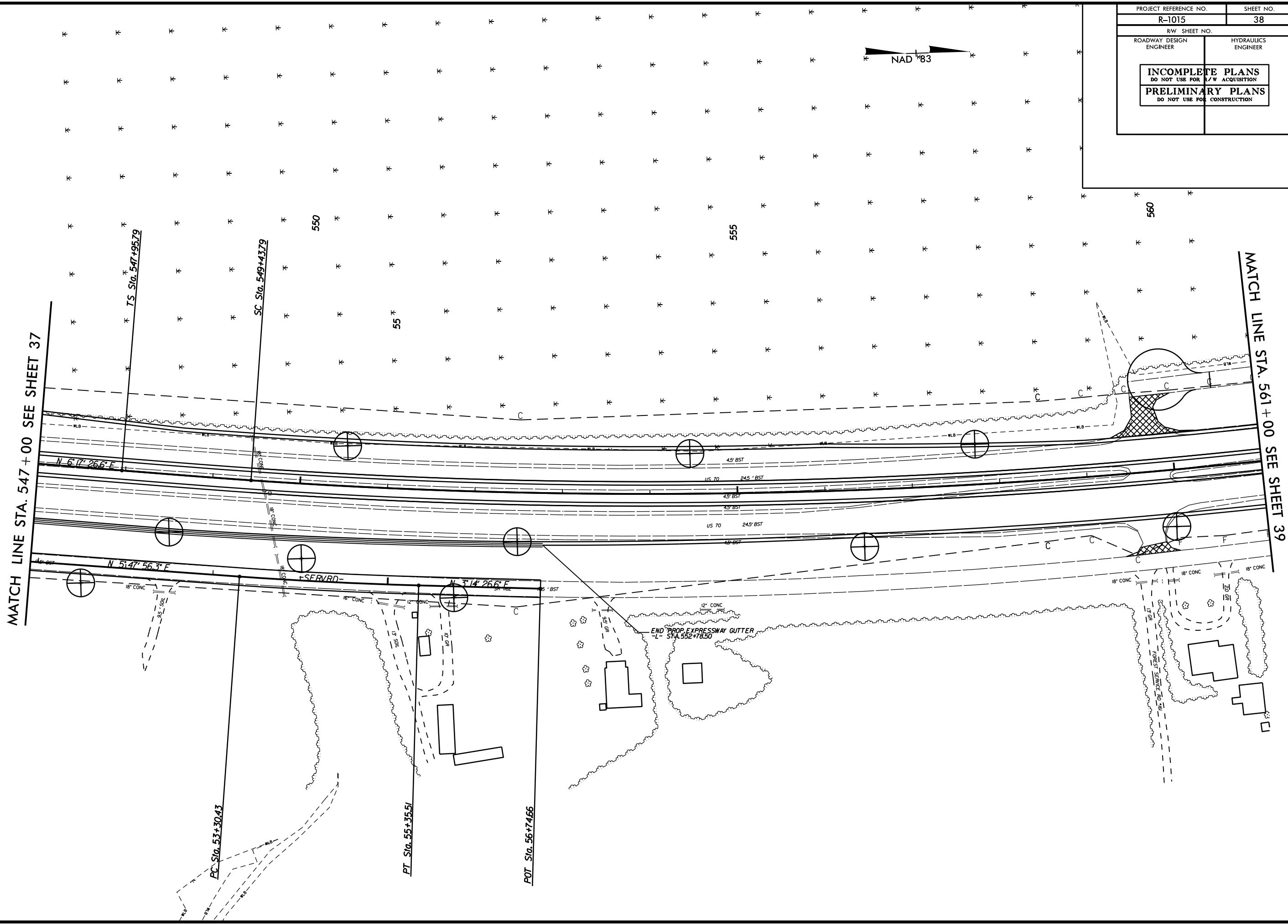


PROJECT REFERENCE NO.	SHEET NO.
R-1015	37
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

MATCH LINE STA. 547 + 00 SEE SHEET 38

REVISIONS

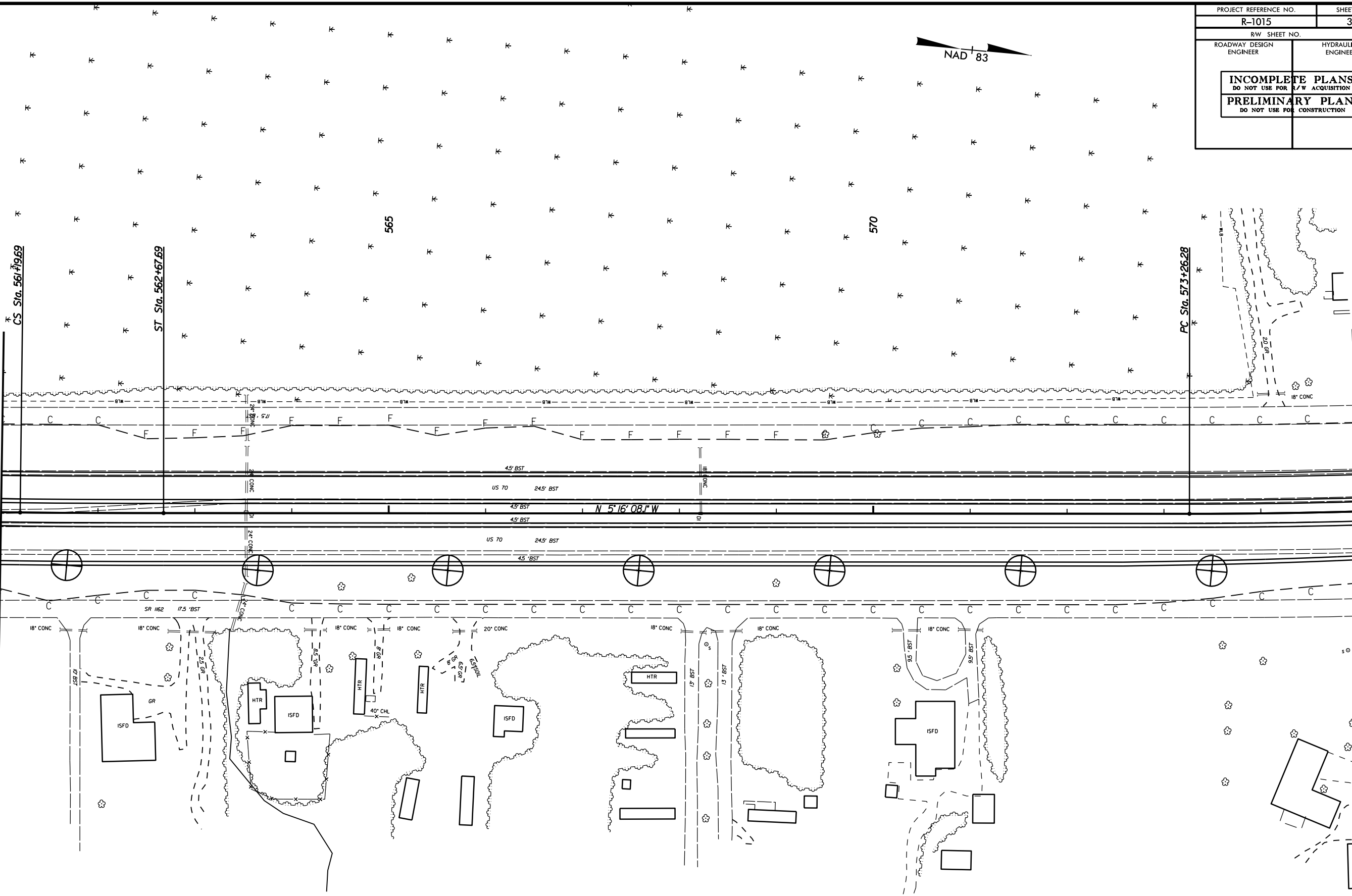
MATCH LINE STA. 547 + 00 SEE SHEET 37



PROJECT REFERENCE NO.	SHEET NO.
R-1015	38
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

REVISIONS

MATCH LINE STA. 561 + 00 SEE SHEET 38



CS Sta. 561+19.69

ST Sta. 562+67.69

565

570

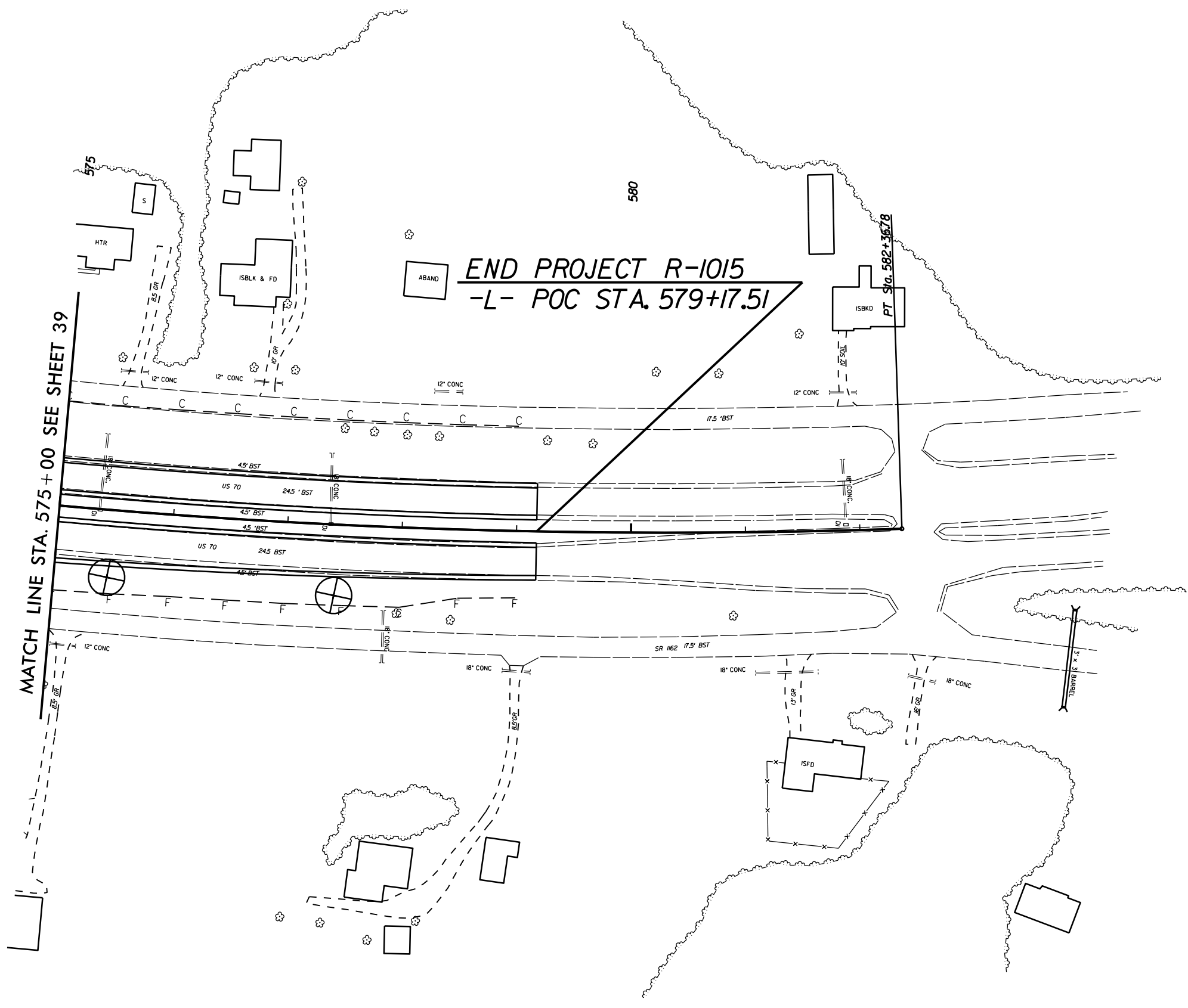
NAD 83

PC Sta. 573+26.28

PROJECT REFERENCE NO.		SHEET NO.	
R-1015		39	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

MATCH LINE STA. 575 + 00 SEE SHEET 40

PROJECT REFERENCE NO.	SHEET NO.
R-1015	40
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

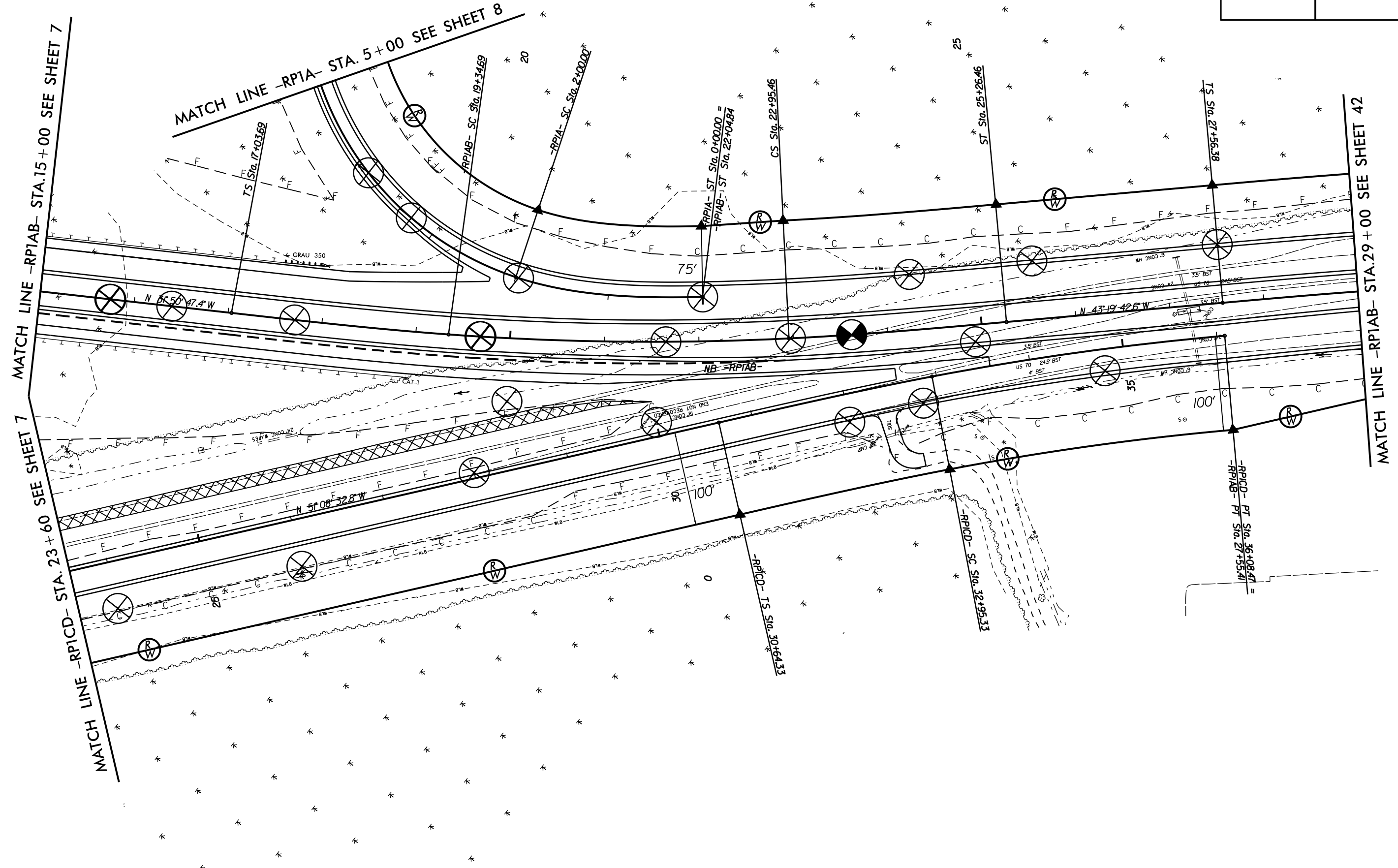
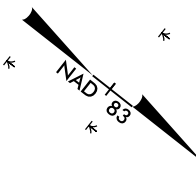


REVISIONS

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 8/17/99

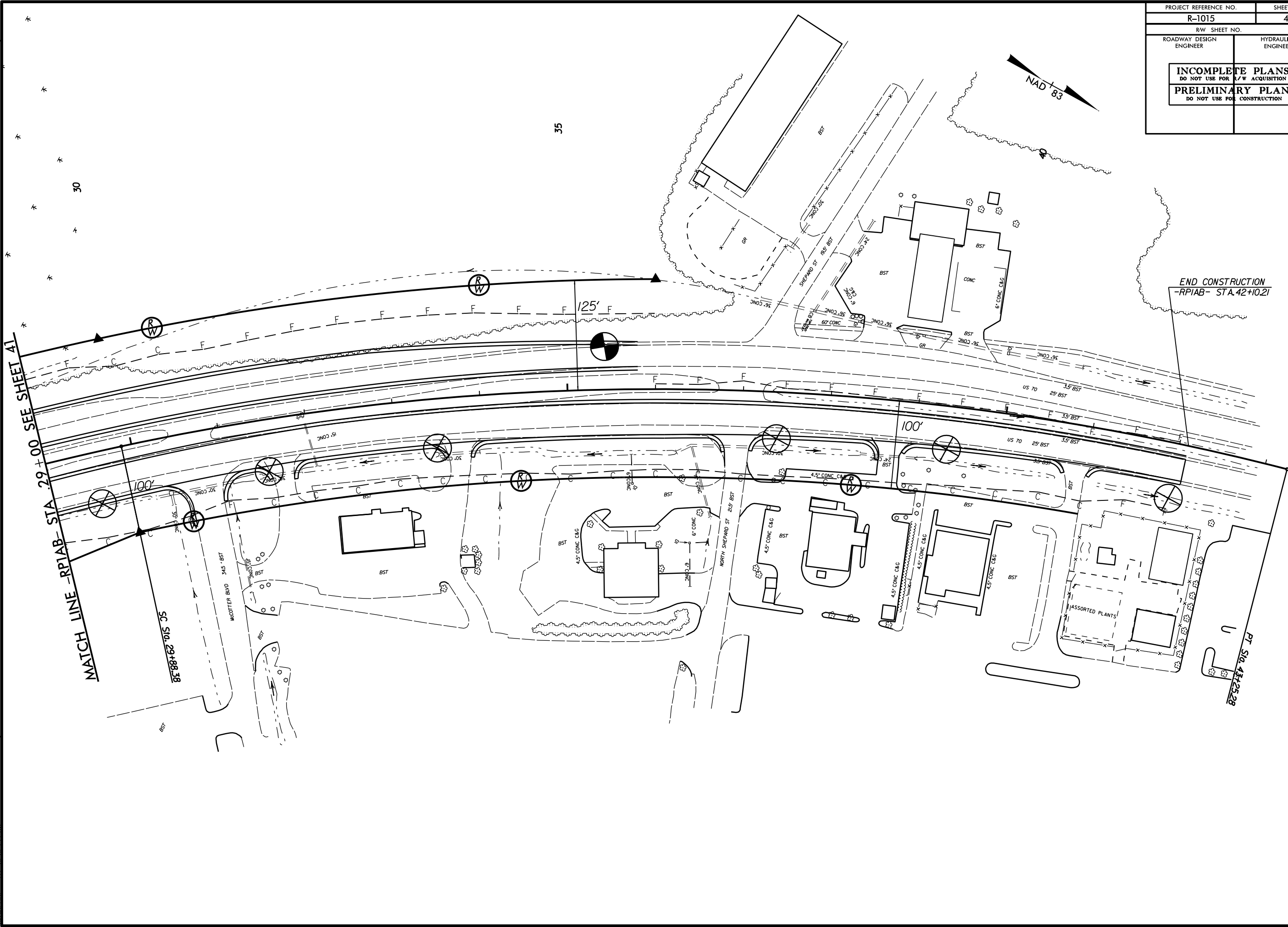
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	41
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

PROJECT REFERENCE NO. R-1015	SHEET NO. 42
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



MATCH LINE - RPIAB - STA. 29 + 00 SEE SHEET 41

END CONSTRUCTION  
-RPIAB- STA. 42+10.21

30

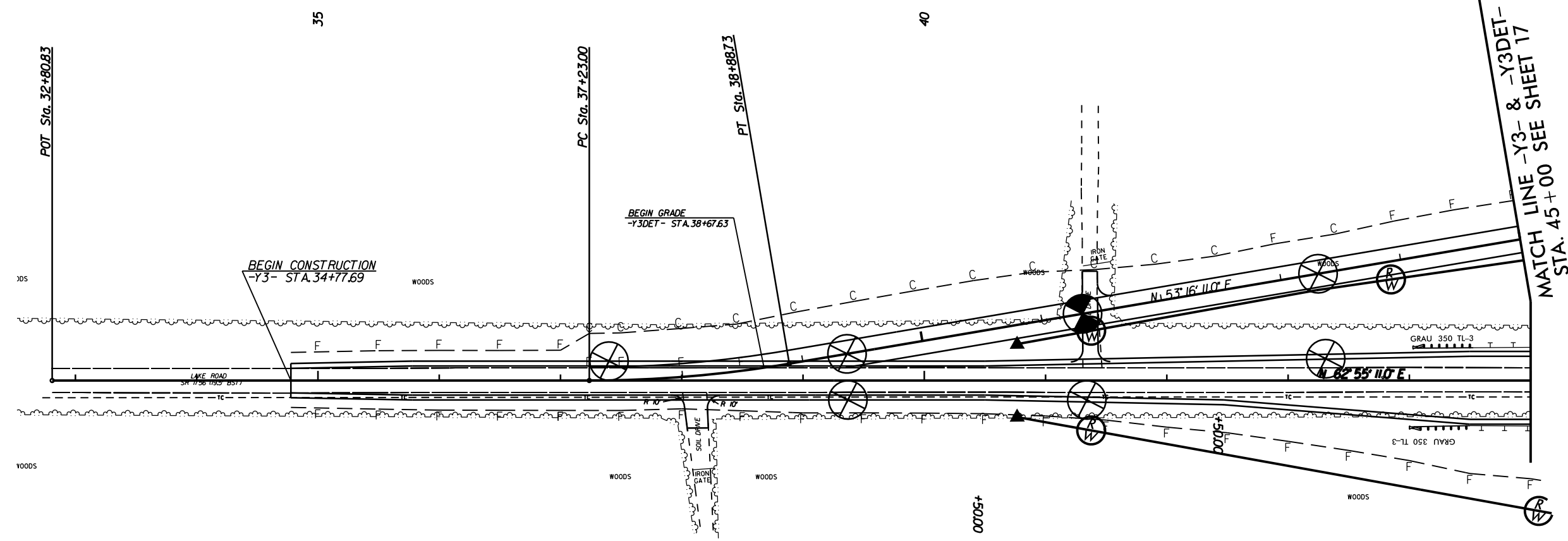
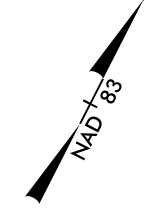
35

125'

100'

PT Sta. 43+25.28

PROJECT REFERENCE NO.	SHEET NO.
R-1015	43
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



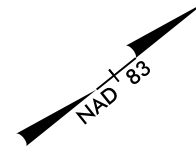
REVISIONS

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 8/17/99



PROJECT REFERENCE NO.	SHEET NO.
R-1015	44
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b>	
DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b>	
DO NOT USE FOR CONSTRUCTION	

7



70

65



END CONSTRUCTION  
-Y3- STA. 73+81.89

END GRADE  
-Y3DET- STA. 66+15.64

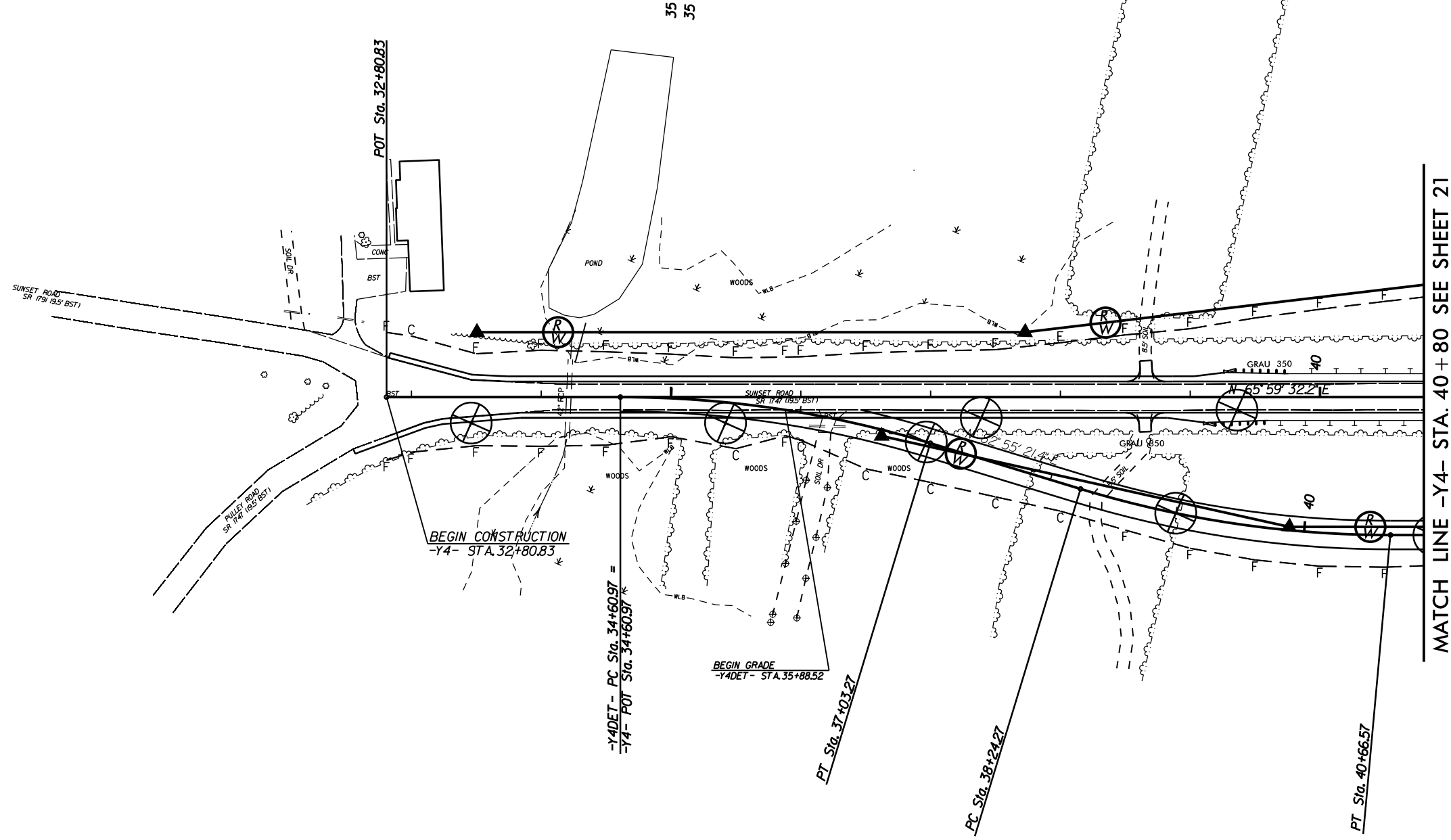
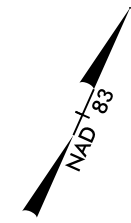
REVISIONS

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 8/17/99



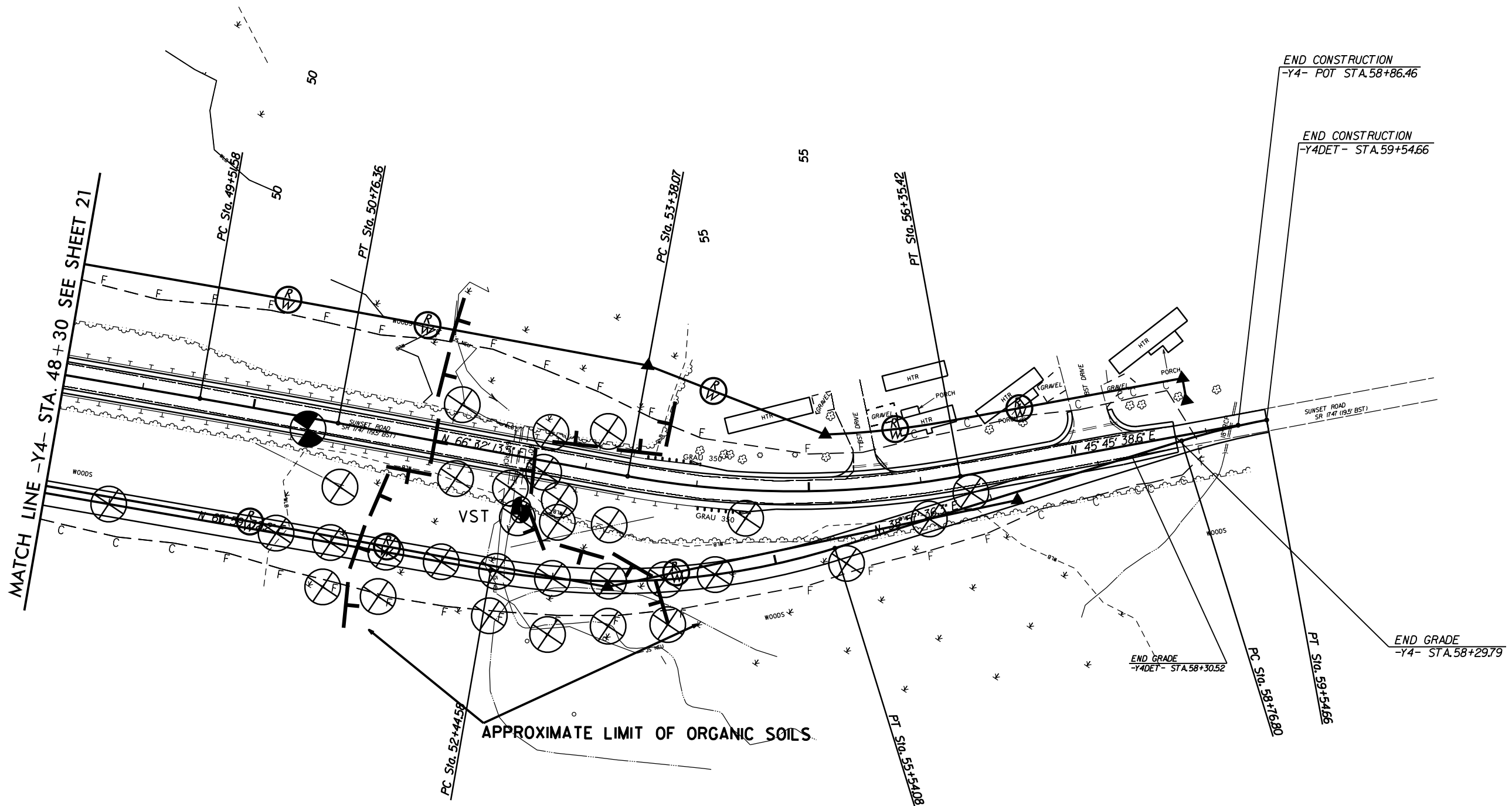
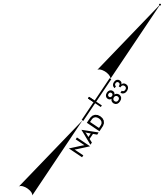
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	45
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



MATCH LINE -Y4- STA. 40 + 80 SEE SHEET 21

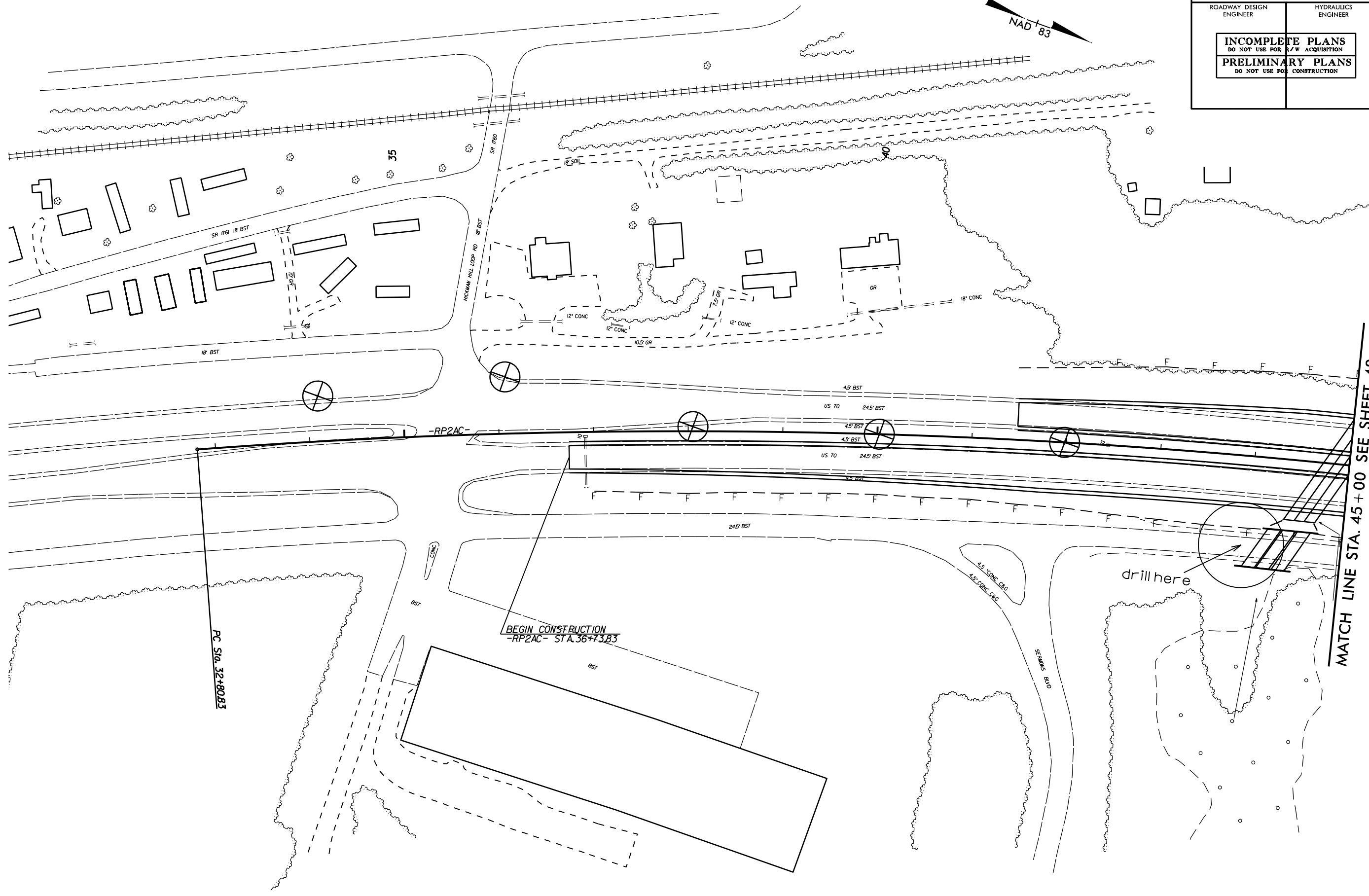
PROJECT REFERENCE NO.	SHEET NO.
R-1015	46
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

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 8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	47
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



REVISIONS

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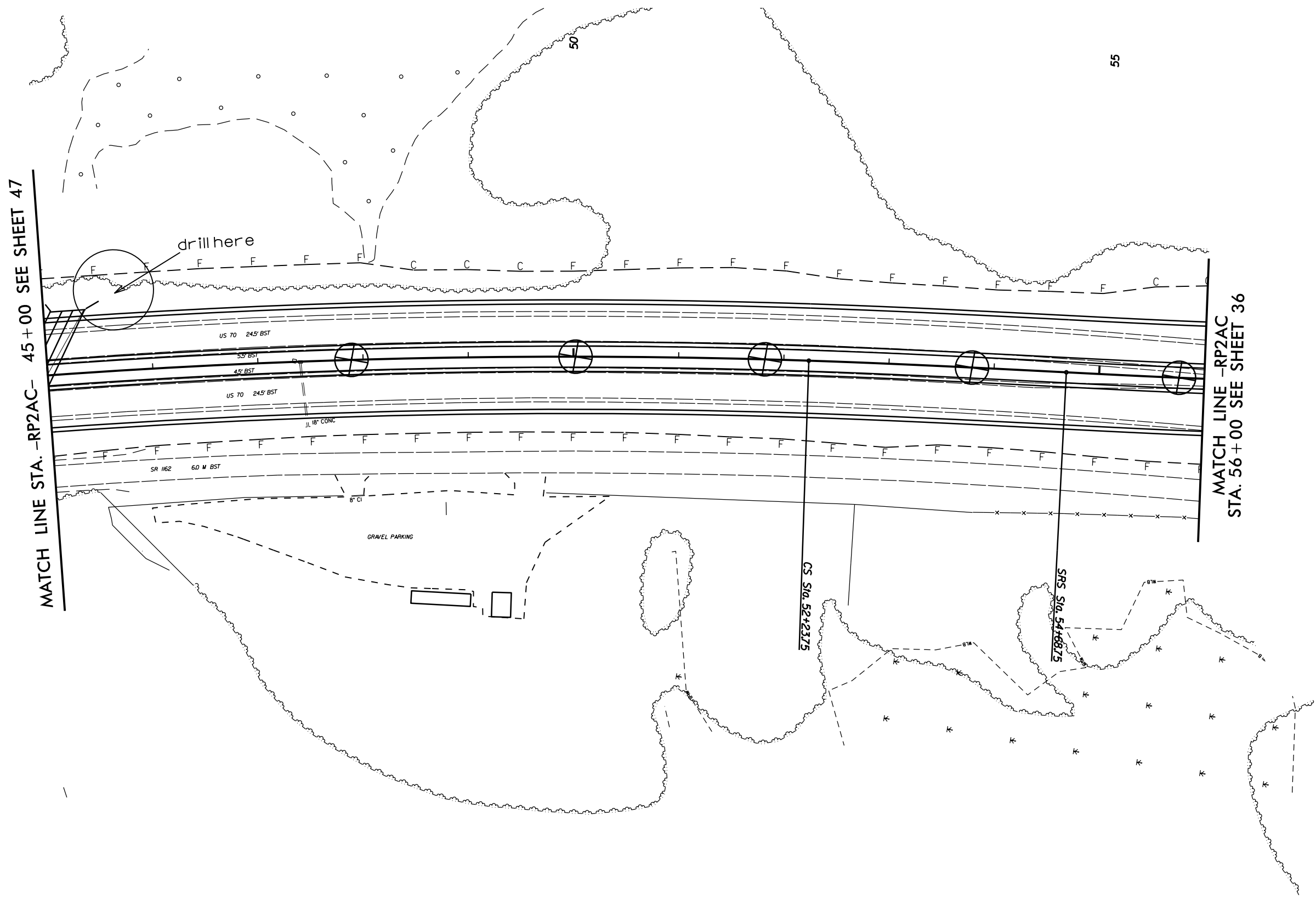
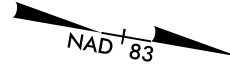
MATCH LINE STA. 45+00 SEE SHEET 48

drill here

BEGIN CONSTRUCTION  
-RP2AC- STA. 36+73.83

PC Sta. 32+80.83

PROJECT REFERENCE NO.	SHEET NO.
R-1015	48
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



MATCH LINE STA. -RP2AC- 45+00 SEE SHEET 47

MATCH LINE -RP2AC STA. 56+00 SEE SHEET 36

REVISIONS

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 8/17/99

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
GEOTECHNICAL ENGINEERING UNIT  
SUBSURFACE INVESTIGATION  
INVENTORY  
SECTION 2

REFERENCE: R-1015

PROJECT: 34360

DS  
JS

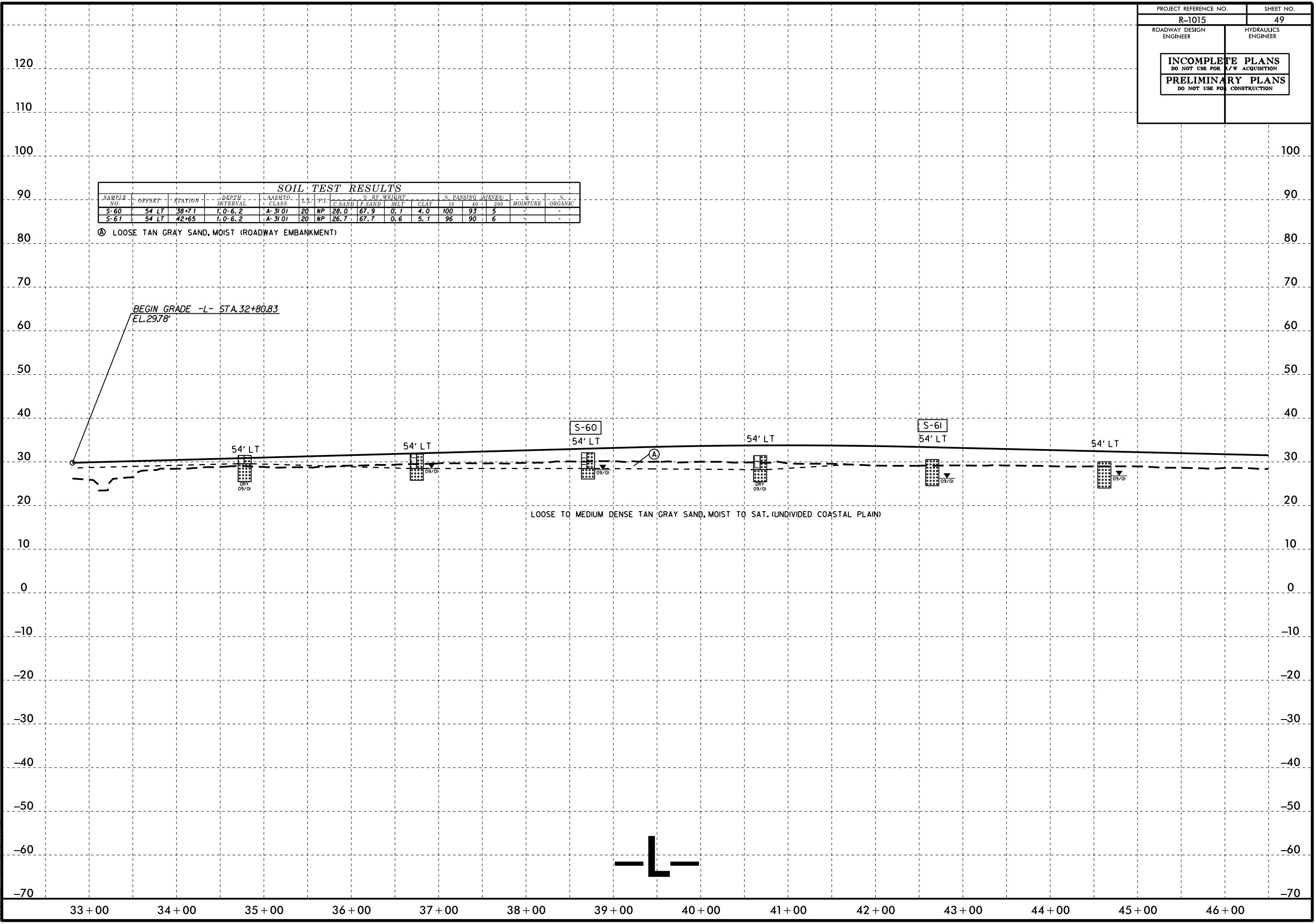
3/16/2015

INITIALS

DATE

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	LAASHTO CLASS	L	P	% BY WEIGHT				% PASSING SIEVES			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-60	54' LT	38+71	1.0-6.2	A-3(0)	20	NP	28.0	67.9	0.1	4.0	100	93	5	-	-
S-61	54' LT	42+65	1.0-6.2	A-3(0)	20	NP	26.7	67.7	0.6	5.1	96	90	6	-	-

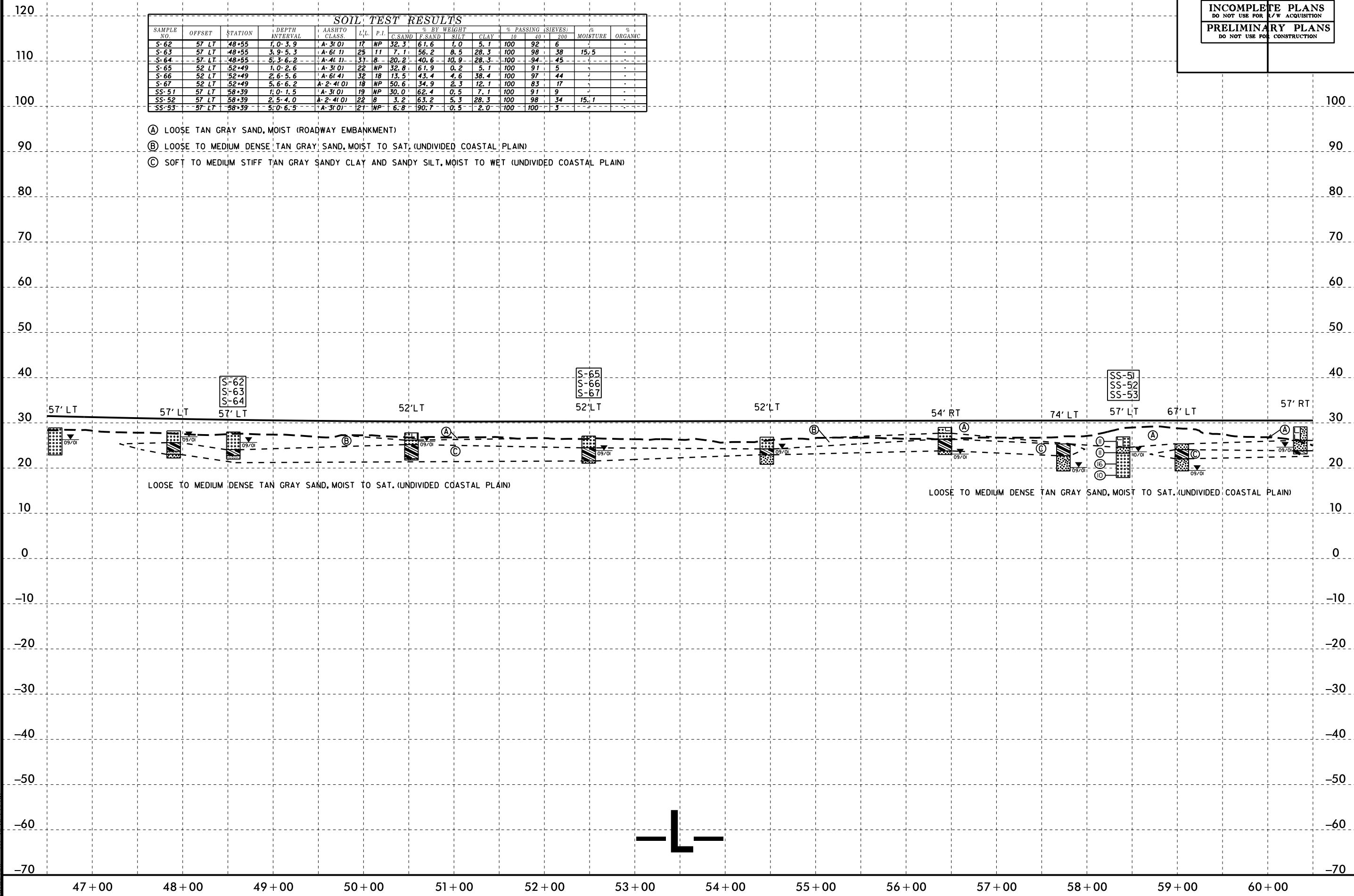
Ⓐ LOOSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)



5/14/99  
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 continued at 49

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	NO. 10	NO. 20	NO. 40		
S-62	57' LT	48+55	1.0-3.9	A-3(0)	17	NP	32.3	61.6	1.0	5.1	100	92	6	-
S-63	57' LT	48+55	3.9-5.3	A-6(1)	25	11	7.1	56.2	8.5	28.3	100	98	38	15.5
S-64	57' LT	48+55	5.3-6.2	A-4(1)	37	8	20.2	40.6	10.9	28.3	100	94	45	-
S-65	52' LT	52+49	1.0-2.6	A-3(0)	22	NP	32.8	61.9	0.2	5.1	100	91	5	-
S-66	52' LT	52+49	2.6-5.6	A-6(4)	32	18	13.5	43.4	4.6	38.4	100	97	44	-
S-67	52' LT	52+49	5.6-6.2	A-2(10)	18	NP	50.6	34.9	2.3	12.1	100	83	17	-
SS-51	57' LT	58+39	1.0-1.5	A-3(0)	19	NP	30.0	62.4	0.5	7.1	100	91	9	-
SS-52	57' LT	58+39	2.5-4.0	A-2(10)	22	8	3.2	63.2	5.3	28.3	100	98	34	15.1
SS-53	57' LT	58+39	5.0-6.5	A-3(0)	21	NP	6.8	90.7	0.5	2.0	100	100	3	-

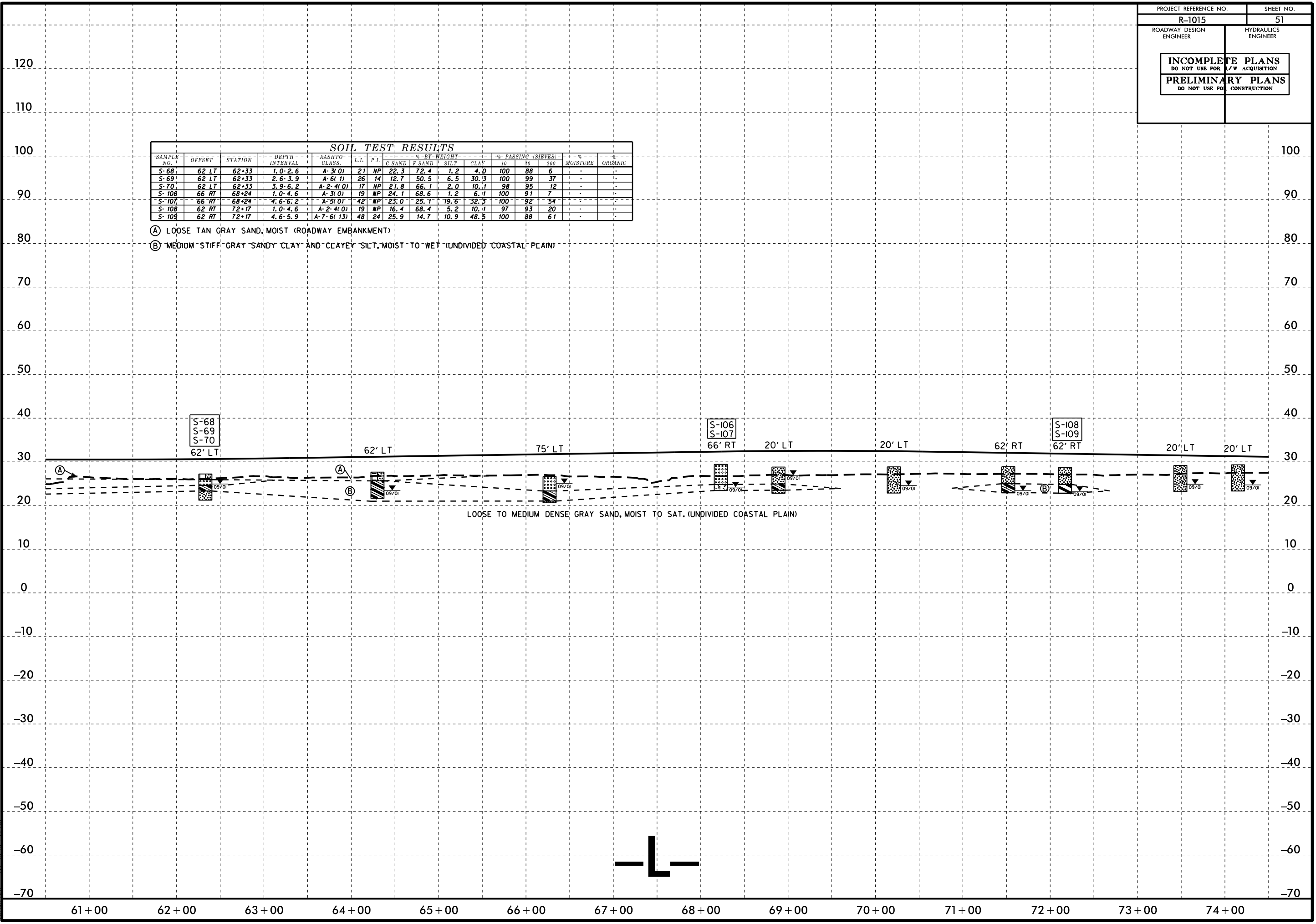
- (A) LOOSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)
- (B) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)
- (C) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	ASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
S-68	62' LT	62+33	1.0-2.6	A-3(0)	21	NP	22.3	72.4	1.2	4.0	100	88	6	-	-
S-69	62' LT	62+33	2.6-3.9	A-6(1)	26	14	12.7	50.5	6.5	30.3	100	99	37	-	-
S-70	62' LT	62+33	3.9-6.2	A-2(4(0))	17	NP	21.8	66.1	2.0	10.1	98	95	12	-	-
S-106	66' RT	68+24	1.0-4.6	A-3(0)	19	NP	24.1	68.6	1.2	6.1	100	91	7	-	-
S-107	66' RT	68+24	4.6-6.2	A-5(0)	42	NP	23.0	25.1	19.6	32.3	100	92	54	-	-
S-108	62' RT	72+17	1.0-4.6	A-2(4(0))	19	NP	16.4	68.4	5.2	10.1	97	93	20	-	-
S-109	62' RT	72+17	4.6-5.9	A-7(6(13))	48	24	25.9	14.7	10.9	48.5	100	88	6.1	-	-

- (A) LOOSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)
- (B) MEDIUM STIFF GRAY SANDY CLAY AND CLAYEY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

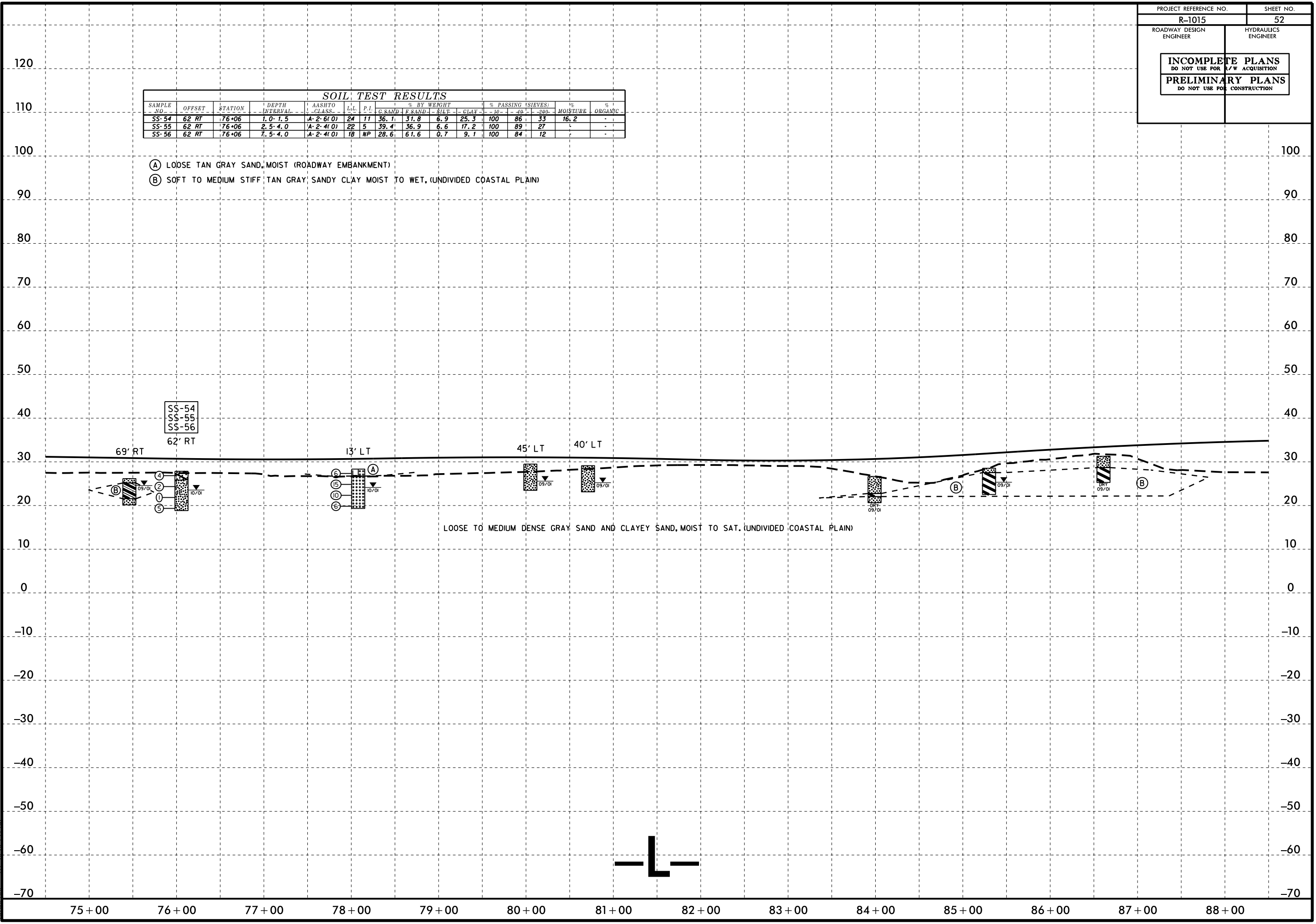


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							SAND	SAND & SILT	CLAY	-10	-40	-200			
SS-54	62 RT	76+06	1.0-1.5	A-2-6(0)	24	11	36.1	31.8	6.9	25.3	100	86	33	16.2	-
SS-55	62 RT	76+06	2.5-4.0	A-2-4(0)	22	5	39.4	36.9	6.6	17.2	100	89	27	-	-
SS-56	62 RT	76+06	7.5-4.0	A-2-4(0)	18	NP	28.6	61.6	0.7	9.1	100	84	12	-	-

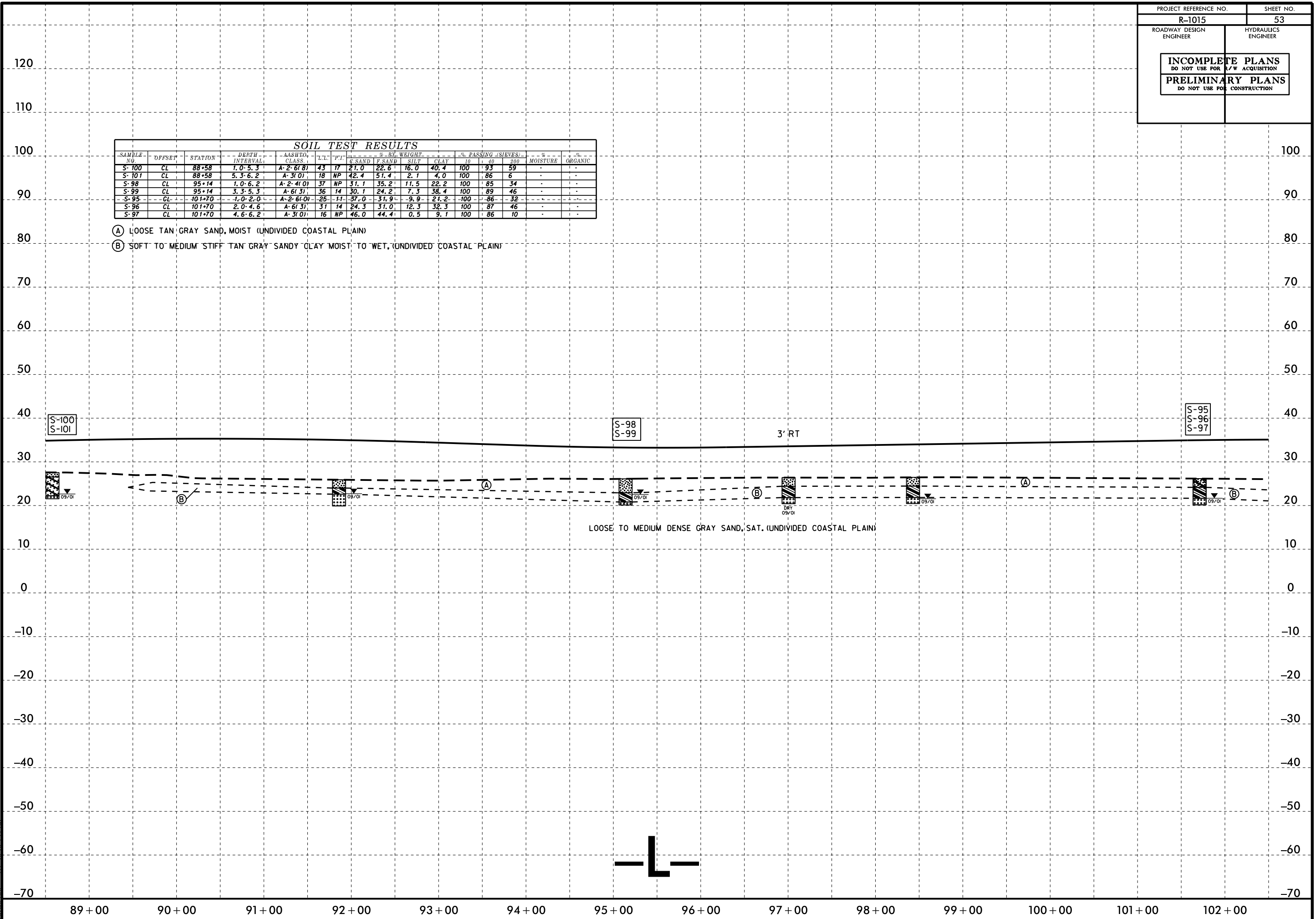
- (A) LOOSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY MOIST TO WET, (UNDIVIDED COASTAL PLAIN)



5/14/99  
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	% ORGANIC
							% SAND	% F SAND	% SILT	% CLAY	10	40	200		
S-100	CL	88+58	1.0-5.3	A-2-6(8)	43	17	21.0	22.6	16.0	40.4	100	93	59	-	-
S-101	CL	88+58	5.3-6.2	A-3(0)	18	NP	42.4	51.4	2.1	4.0	100	86	6	-	-
S-98	CL	95+14	1.0-6.2	A-2-4(0)	37	NP	31.1	35.2	11.5	22.2	100	85	34	-	-
S-99	CL	95+14	3.3-5.3	A-6(3)	36	14	30.1	24.2	7.3	38.4	100	89	46	-	-
S-95	CL	101+70	1.0-2.0	A-2-6(0)	25	11	37.0	31.9	9.9	21.2	100	86	32	-	-
S-96	CL	101+70	2.0-4.6	A-6(3)	31	14	24.3	31.0	12.3	32.3	100	87	46	-	-
S-97	CL	101+70	4.6-6.2	A-3(0)	16	NP	46.0	44.4	0.5	9.1	100	86	10	-	-

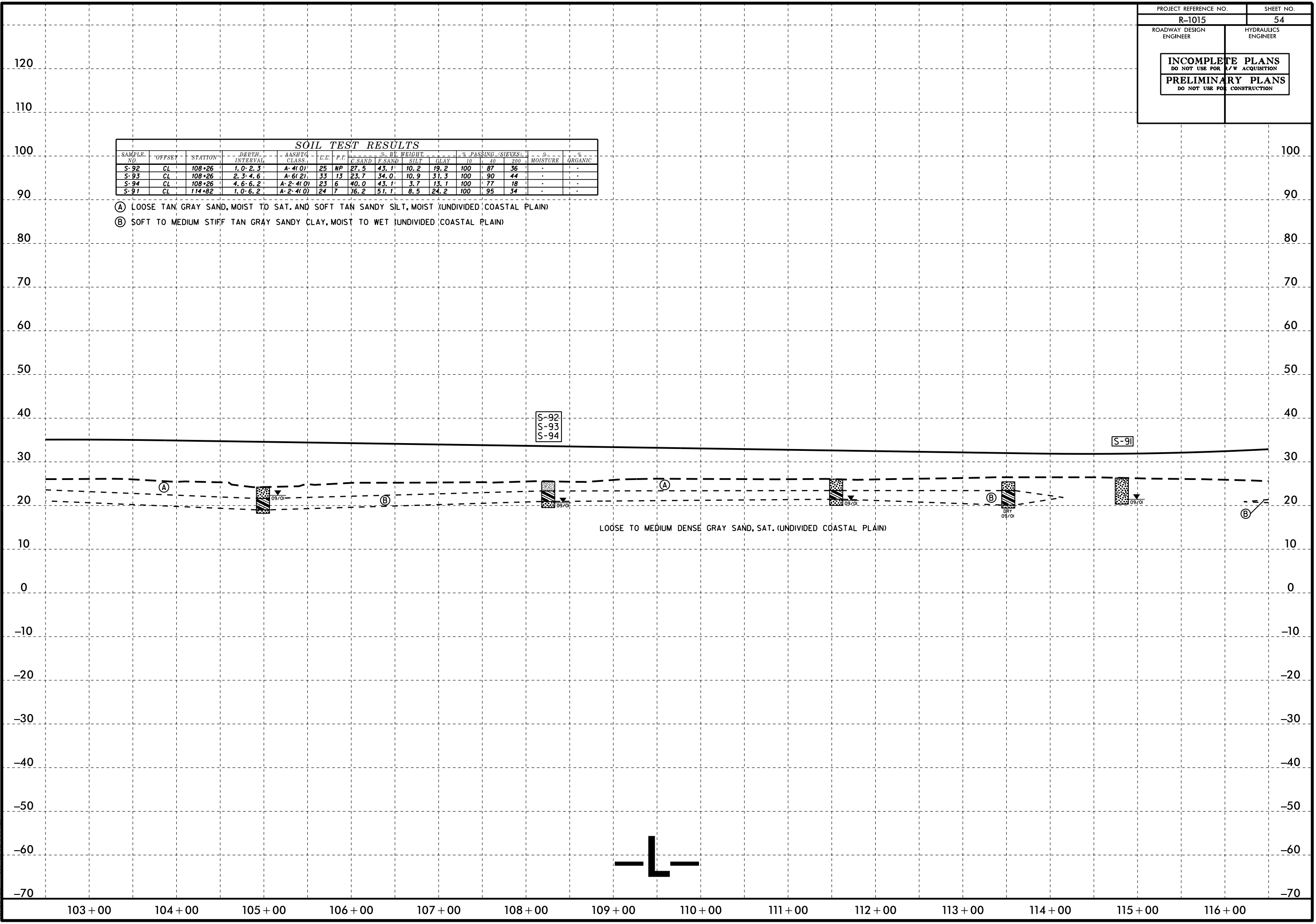
- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY MOIST TO WET, (UNDIVIDED COASTAL PLAIN)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.F.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-92	CL	108+26	1.0-2.3'	A-4(0)	25	NP	27.5	43.1	10.2	19.2	100	87	36	-	-
S-93	CL	108+26	2.3-4.6'	A-6(2)	33	13	23.7	34.0	10.9	31.3	100	90	44	-	-
S-94	CL	108+26	4.6-6.2'	A-2-4(0)	23	6	40.0	43.1	3.7	13.1	100	77	18	-	-
S-91	CL	114+82	1.0-6.2'	A-2-4(0)	24	7	16.2	51.1	8.5	24.2	100	95	34	-	-

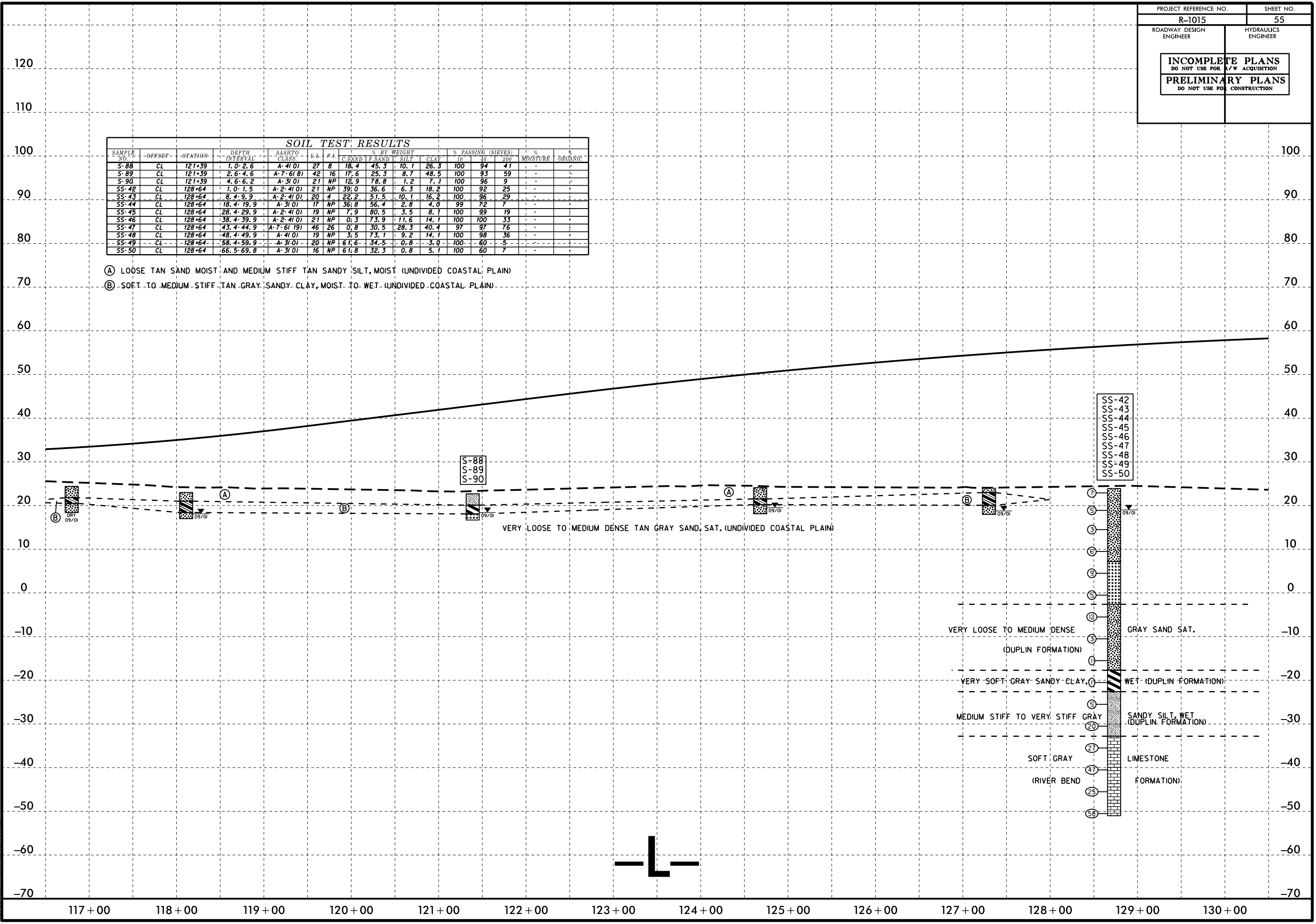
- (A) LOOSE TAN GRAY SAND, MOIST TO SAT. AND SOFT TAN SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



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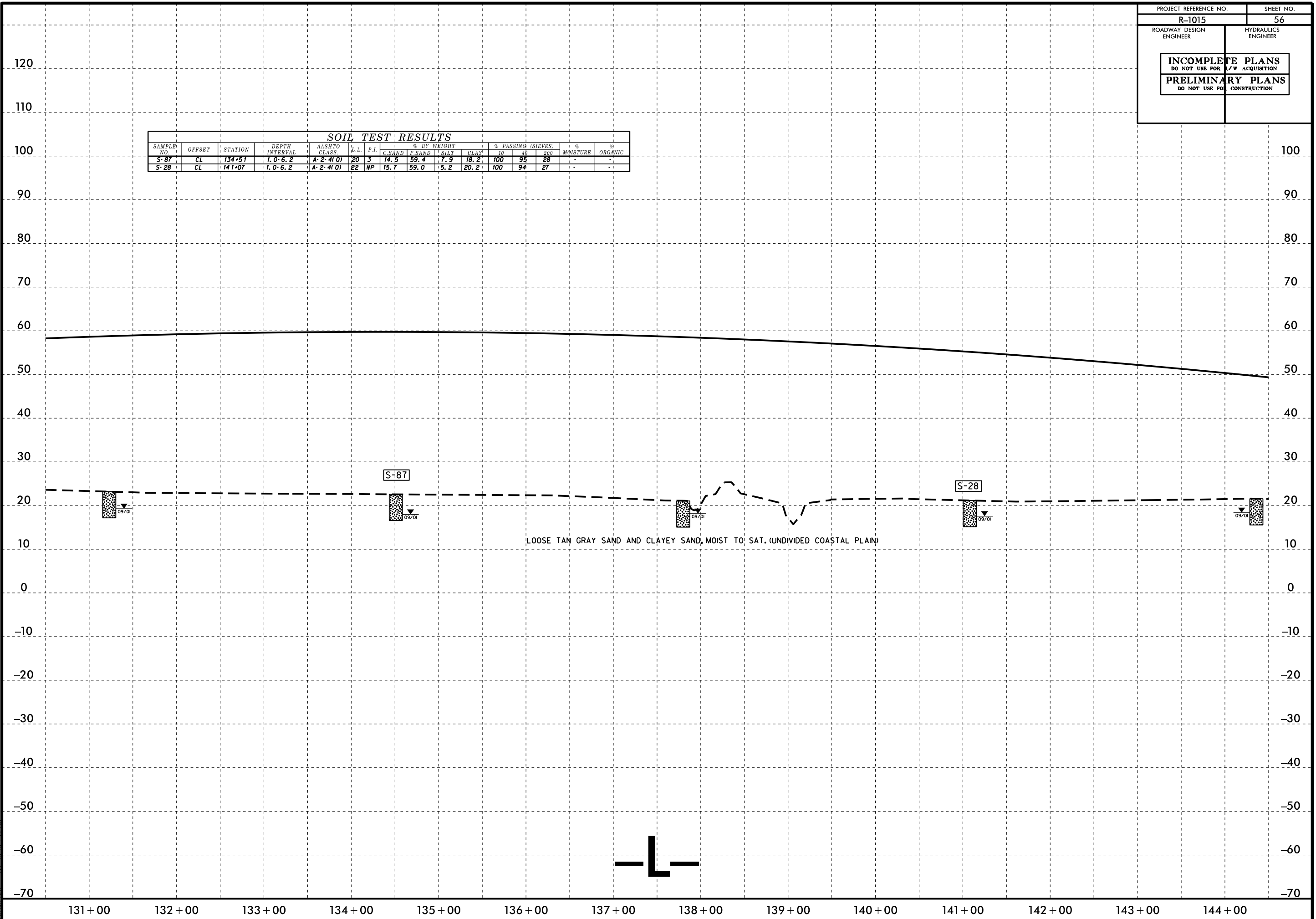
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.F.	P.F.	% BY WEIGHT			% PASSING (SIEVES)			MOISTURE	ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	20			200
S-88	CL	121+39	1.0-2.6	A-4(0)	27	8	18.4	45.3	10.1	26.3	100	94	41	-	-
S-89	CL	121+39	2.6-4.6	A-7-6(8)	42	16	17.6	25.3	8.7	48.5	100	93	59	-	-
S-90	CL	121+39	4.6-6.2	A-3(0)	21	NP	12.9	78.8	1.2	7.7	100	96	9	-	-
SS-42	CL	128+64	1.0-1.5	A-2-4(0)	21	NP	39.0	36.6	6.3	18.2	100	92	25	-	-
SS-43	CL	128+64	8.4-9.9	A-2-4(0)	20	4	22.2	51.5	10.7	16.2	100	96	29	-	-
SS-44	CL	128+64	18.4-19.9	A-3(0)	17	NP	36.8	56.4	2.8	4.0	99	72	7	-	-
SS-45	CL	128+64	28.4-29.9	A-2-4(0)	19	NP	7.9	80.5	3.5	8.7	100	99	19	-	-
SS-46	CL	128+64	38.4-39.9	A-2-4(0)	21	NP	0.3	73.9	11.6	14.1	100	100	33	-	-
SS-47	CL	128+64	43.4-44.9	A-7-6(19)	46	26	0.8	30.5	28.3	40.4	97	97	76	-	-
SS-48	CL	128+64	48.4-49.9	A-4(0)	19	NP	3.5	73.1	9.2	14.1	100	98	36	-	-
SS-49	CL	128+64	58.4-59.9	A-3(0)	20	NP	61.6	34.5	0.8	3.0	100	60	5	-	-
SS-50	CL	128+64	66.5-69.8	A-3(0)	16	NP	61.8	32.3	0.8	5.1	100	60	7	-	-

- (A) LOOSE TAN SAND MOIST AND MEDIUM STIFF TAN SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



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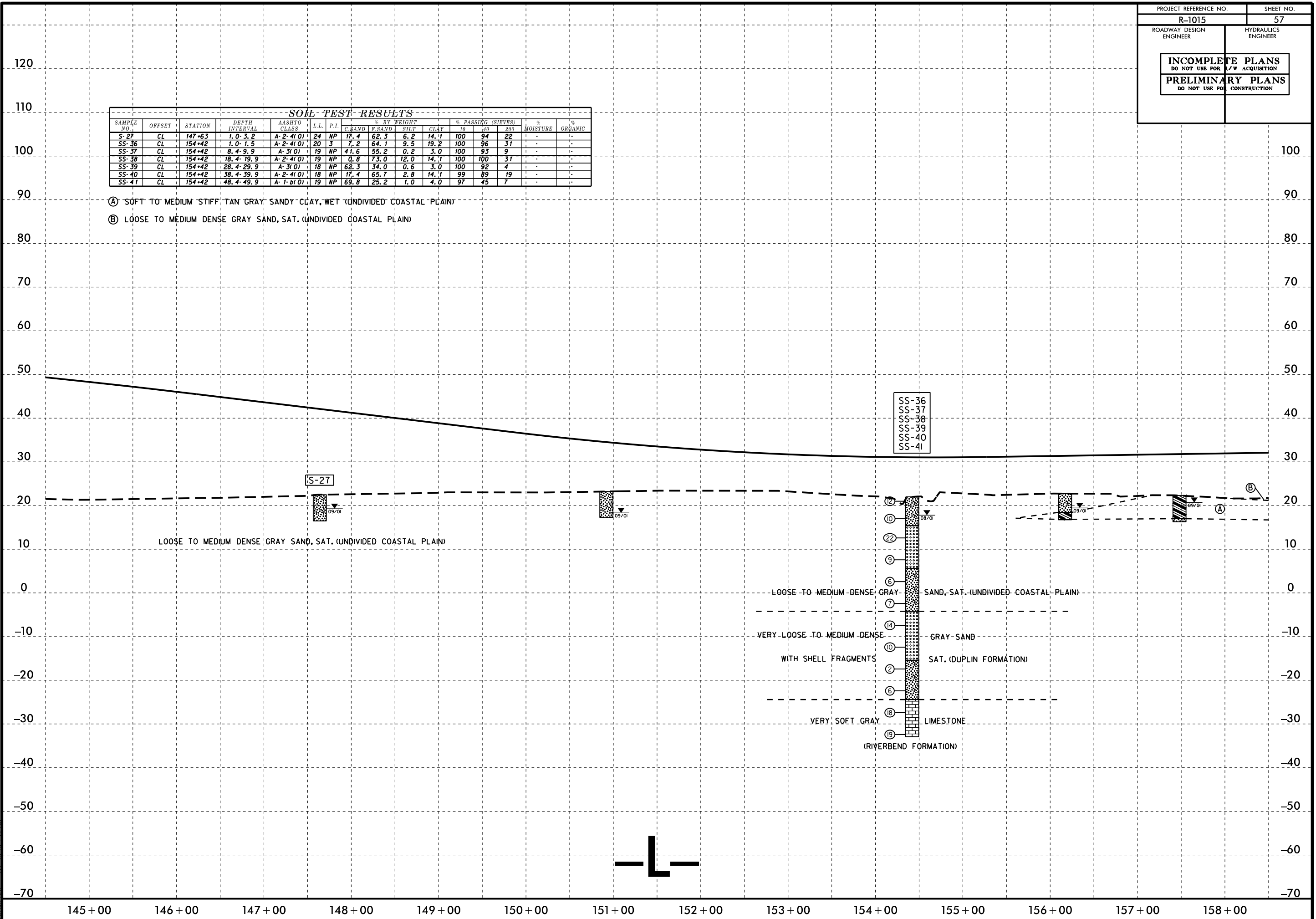
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-87	CL	134+51	1.0-6.2	A-2-4(0)	20	3	14.5	59.4	7.9	18.2	100	95	28	-	-
S-28	CL	141+07	1.0-6.2	A-2-4(0)	22	NP	15.7	59.0	5.2	20.2	100	94	27	-	-



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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-27	CL	147+63	1.0-3.2	A-2-4(O)	24	NP	17.4	62.3	6.2	14.1	100	94	22	-	-
SS-36	CL	154+42	1.0-1.5	A-2-4(O)	20	3	7.2	64.1	9.5	19.2	100	96	31	-	-
SS-37	CL	154+42	8.4-9.9	A-3(O)	19	NP	41.6	55.2	0.2	3.0	100	93	9	-	-
SS-38	CL	154+42	18.4-19.9	A-2-4(O)	19	NP	0.8	73.0	12.0	14.1	100	100	31	-	-
SS-39	CL	154+42	28.4-29.9	A-3(O)	18	NP	62.3	34.0	0.6	3.0	100	92	4	-	-
SS-40	CL	154+42	38.4-39.9	A-2-4(O)	18	NP	17.4	65.7	2.8	14.1	99	89	19	-	-
SS-41	CL	154+42	48.4-49.9	A-1-d(O)	19	NP	69.8	25.2	1.0	4.0	97	45	7	-	-

- Ⓐ SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, WET (UNDIVIDED COASTAL PLAIN)
- Ⓑ LOOSE TO MEDIUM DENSE GRAY SAND, SAT. (UNDIVIDED COASTAL PLAIN)



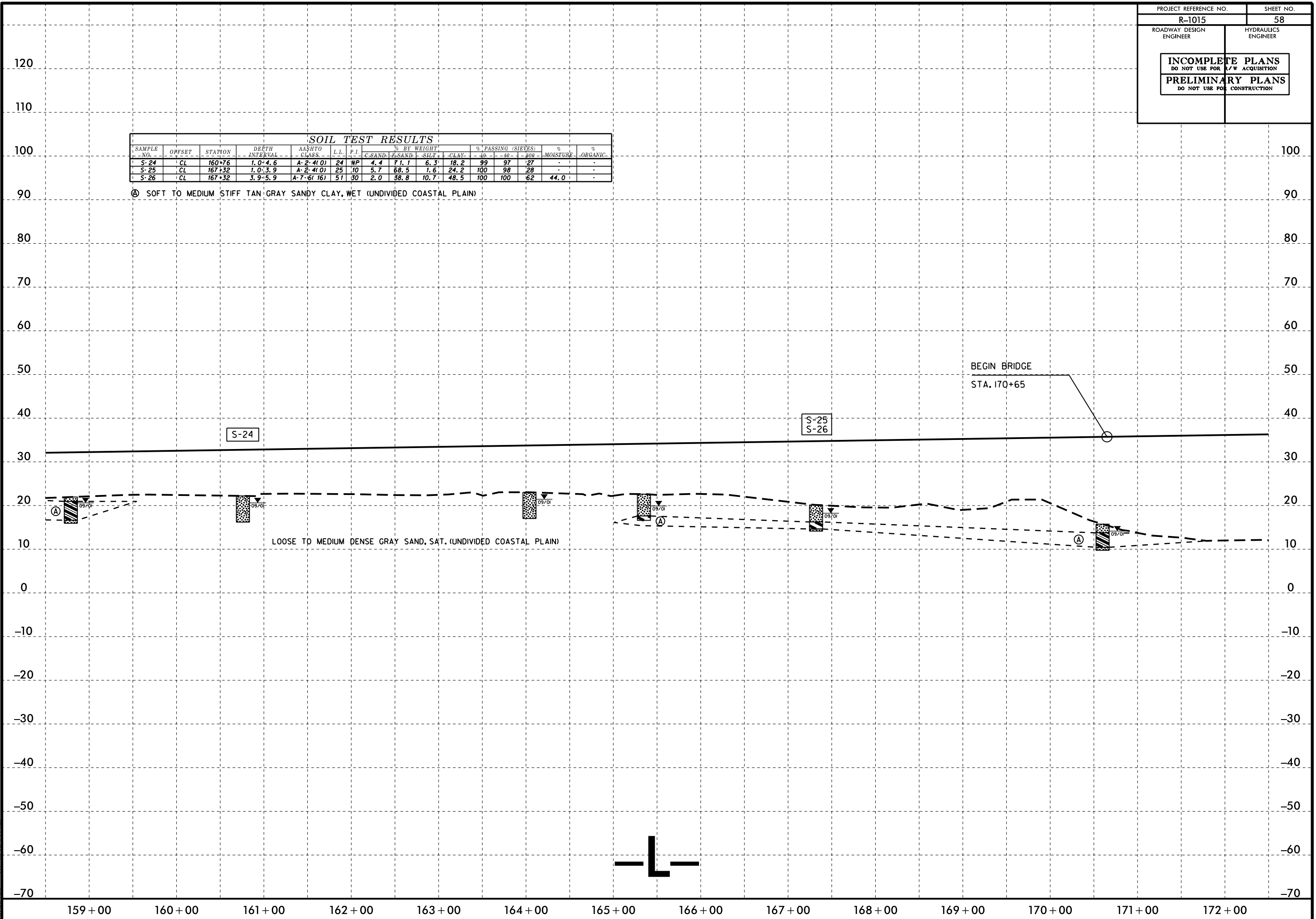
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5/14/99

PROJECT REFERENCE NO. <b>R-1015</b>	SHEET NO. <b>58</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO			% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
				CLASS.	L.L.	P.I.	C-SAND	F-SAND	SILT	CLAY	-40	-40	-200		
S-24	CL	160+76	1.0'-4.6'	A-2-4(0)	24	WP	4.4	71.1	6.3	18.2	99	97	27	-	-
S-25	CL	167+32	1.0'-3.9'	A-2-4(0)	25	WP	5.7	68.5	1.6	24.2	100	98	28	-	-
S-26	CL	167+32	3.9'-5.9'	A-7-6(16)	51	30	2.0	38.8	10.7	48.5	100	100	62	44.0	-

Ⓐ SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, WET (UNDIVIDED COASTAL PLAIN)

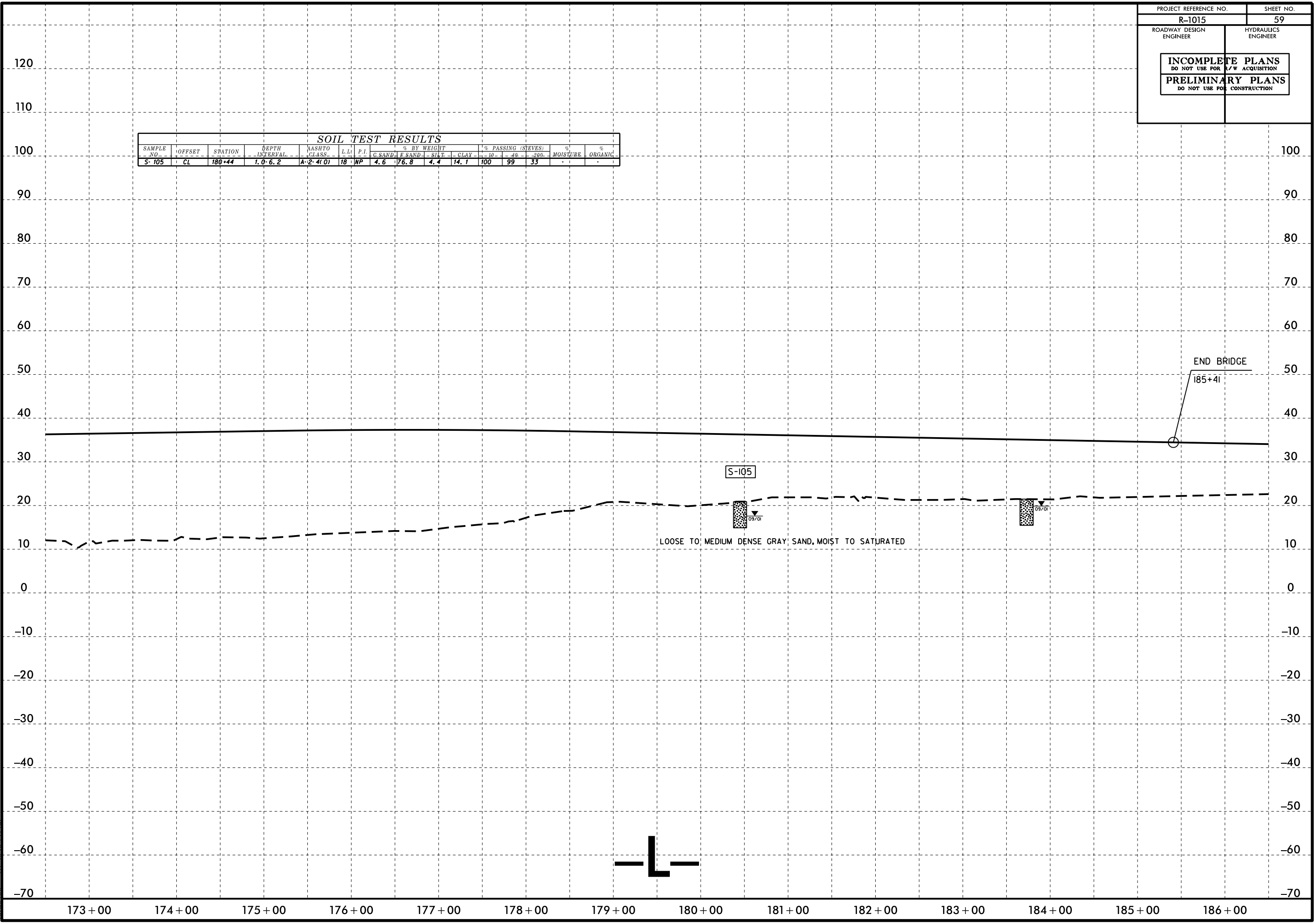


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PROJECT REFERENCE NO.	SHEET NO.
R-1015	59
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	HASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	-10	-40	-200		
S-105	CL	180+44	1.0-6.2	A-2-4(0)	18	WP	4.6	76.8	4.4	14.1	100	99	33	-	-

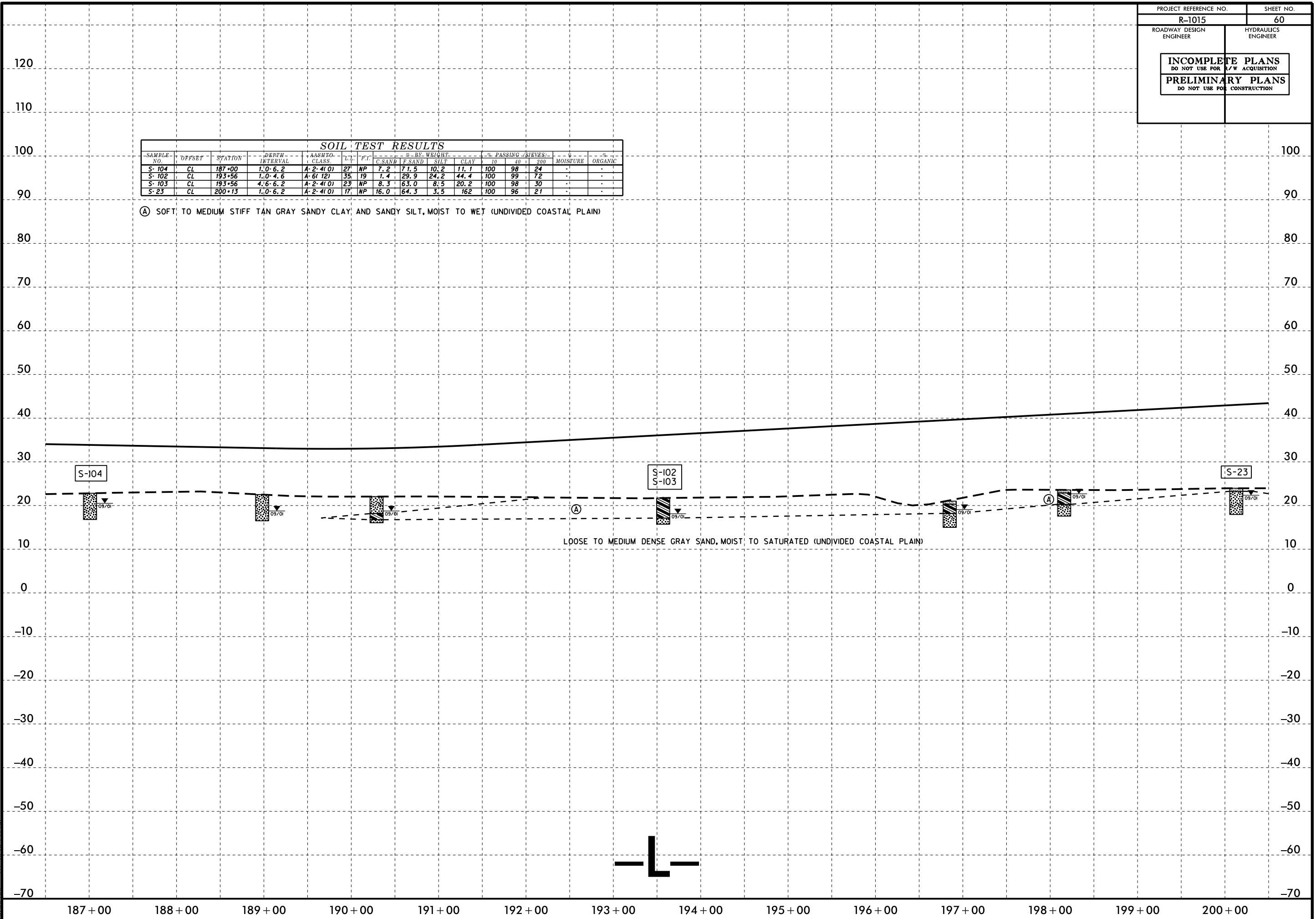


173+00    174+00    175+00    176+00    177+00    178+00    179+00    180+00    181+00    182+00    183+00    184+00    185+00    186+00



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-104	CL	187+00	1.0'-6.2	A-2-4(0)	27	NP	7.2	71.5	10.2	11.1	100	98	24	-	-
S-102	CL	193+56	1.0'-4.6	A-6(12)	35	19	1.4	29.9	24.2	44.4	100	99	72	-	-
S-103	CL	193+56	4.6'-6.2	A-2-4(0)	23	NP	8.3	63.0	8.5	20.2	100	98	30	-	-
S-23	CL	200+13	1.0'-6.2	A-2-4(0)	17	NP	16.0	64.3	3.5	162	100	96	21	-	-

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

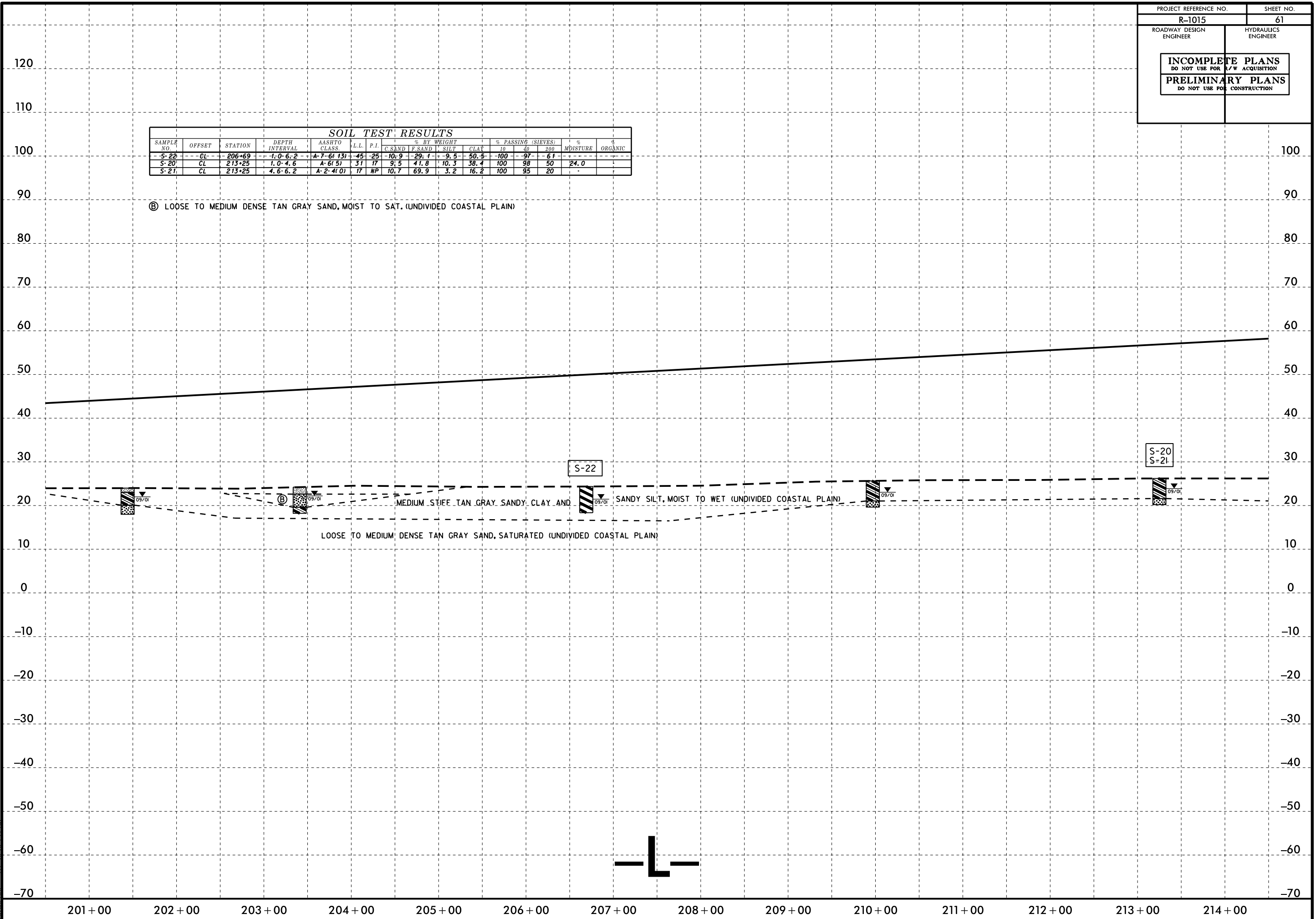


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PROJECT REFERENCE NO.	SHEET NO.
R-1015	61
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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		
S-22	CL	206+69	1.0-6.2	A-7-6(13)	45	25	10.9	29.1	9.5	50.5	100	97	61		
S-20	CL	213+25	1.0-4.6	A-6(5)	31	17	9.5	41.8	10.3	38.4	100	98	50	24.0	
S-21	CL	213+25	4.6-6.2	A-2-4(0)	17	NP	10.7	69.9	3.2	16.2	100	95	20		



ⓑ LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)

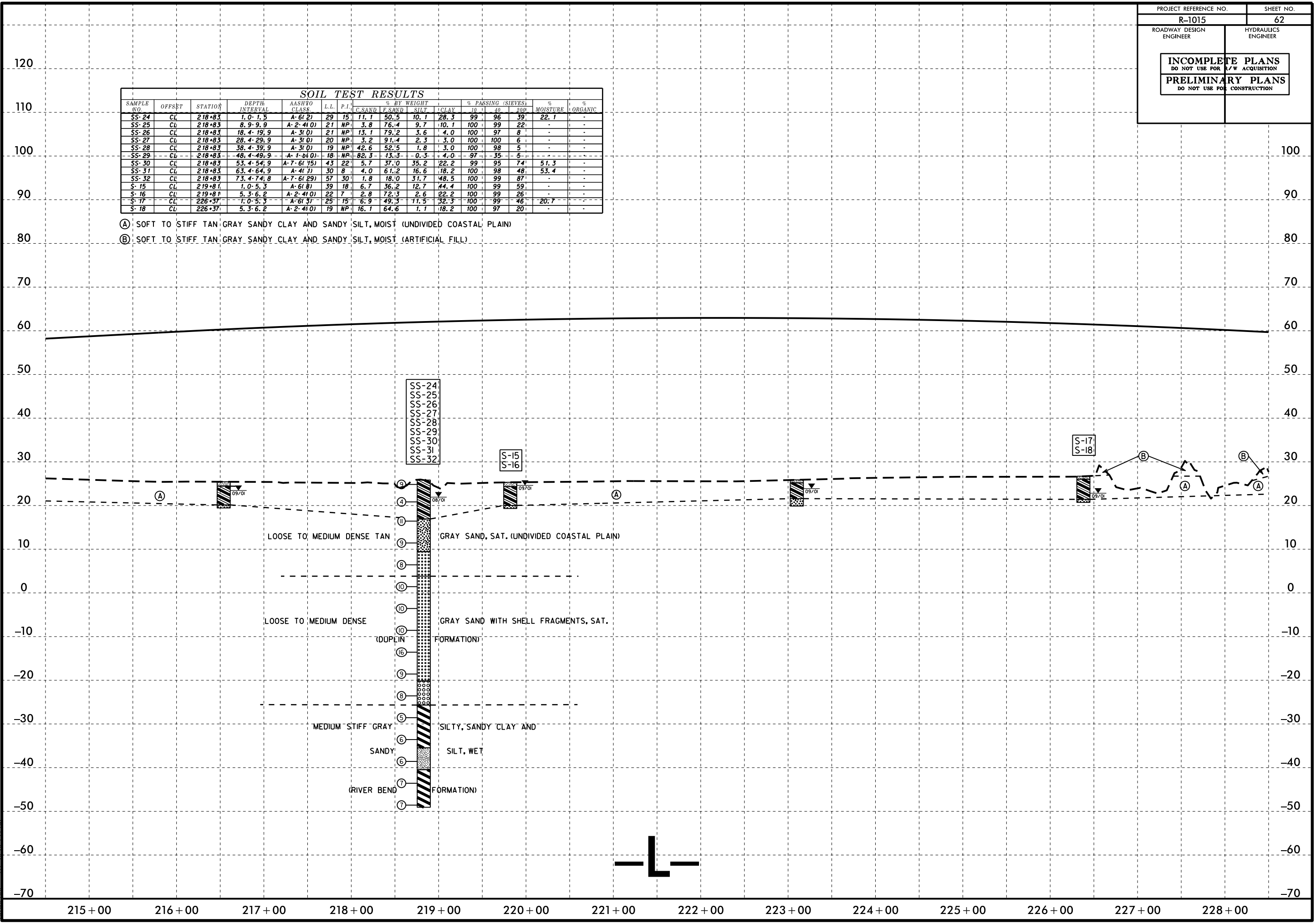
MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

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

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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		
SS-24	CL	218+83	1.0-1.5	A-6(2)	29	15	11.1	50.5	10.1	28.3	99	96	39	22.1	-
SS-25	CL	218+83	8.9-9.9	A-2-4(0)	21	NP	3.8	76.4	9.7	10.1	100	99	22	-	-
SS-26	CL	218+83	18.4-19.9	A-3(0)	21	NP	13.1	79.2	3.6	4.0	100	97	8	-	-
SS-27	CL	218+83	28.4-29.9	A-3(0)	20	NP	3.2	91.4	2.3	3.0	100	100	6	-	-
SS-28	CL	218+83	38.4-39.9	A-3(0)	19	NP	42.6	52.5	1.8	3.0	100	98	5	-	-
SS-29	CL	218+83	48.4-49.9	A-1-6(0)	18	NP	82.3	13.3	0.3	4.0	97	35	5	-	-
SS-30	CL	218+83	53.4-54.9	A-7-6(15)	43	22	5.7	37.0	35.2	22.2	99	95	74	51.3	-
SS-31	CL	218+83	63.4-64.9	A-4(1)	30	8	4.0	61.2	16.6	18.2	100	98	48	53.4	-
SS-32	CL	218+83	73.4-74.8	A-7-6(29)	57	30	1.8	18.0	31.7	48.5	100	99	87	-	-
S-15	CL	219+81	1.0-5.3	A-6(8)	39	18	6.7	36.2	12.7	44.4	100	99	59	-	-
S-16	CL	219+81	5.3-6.2	A-2-4(0)	22	7	2.8	72.3	2.6	22.2	100	99	26	-	-
S-17	CL	226+37	1.0-5.3	A-6(3)	25	15	6.9	49.3	11.5	32.3	100	99	46	20.7	-
S-18	CL	226+37	5.3-6.2	A-2-4(0)	19	NP	16.1	64.6	1.1	18.2	100	97	20	-	-

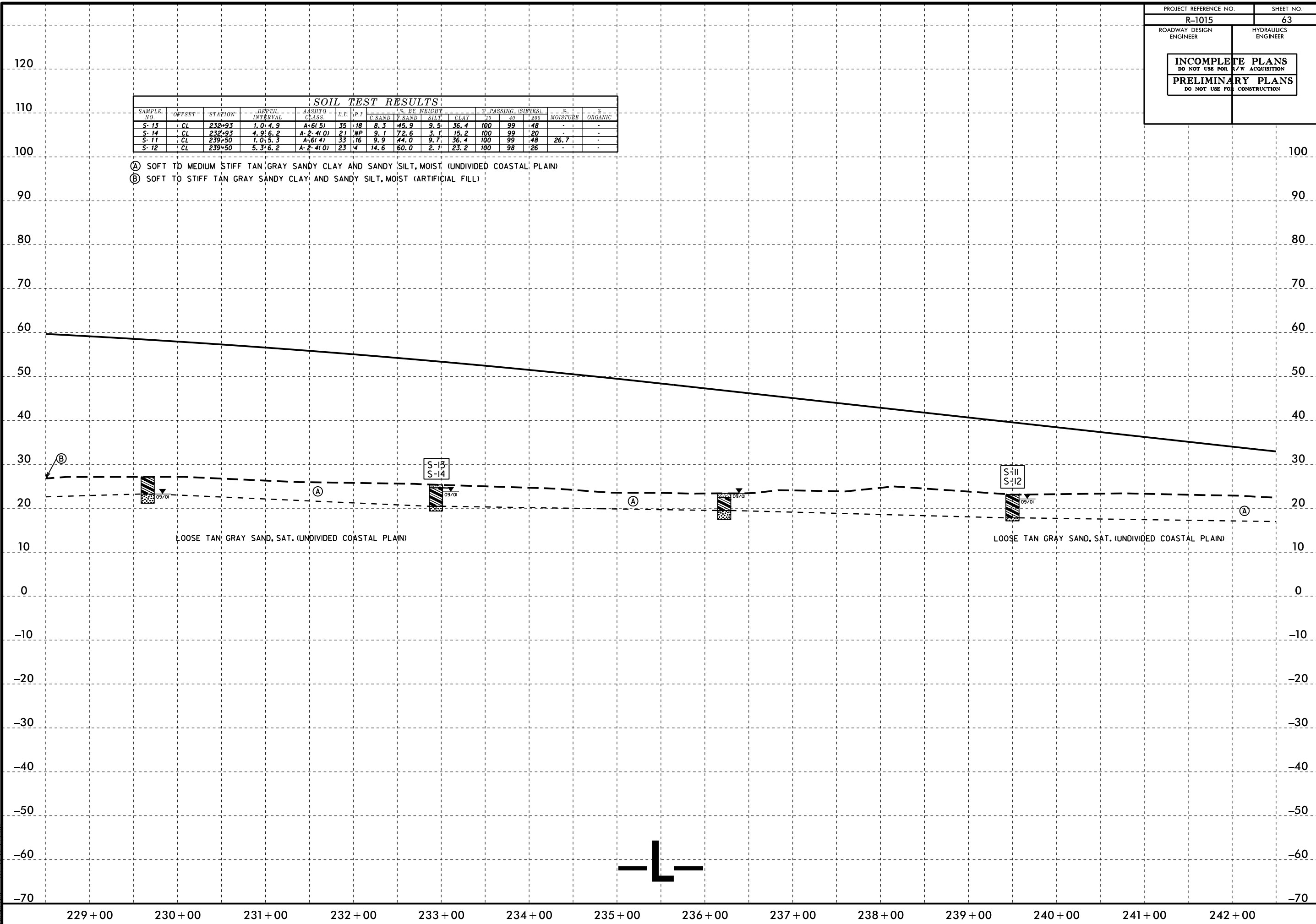
- (A) SOFT TO STIFF TAN, GRAY SANDY CLAY AND SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO STIFF TAN, GRAY SANDY CLAY AND SANDY SILT, MOIST (ARTIFICIAL FILL)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.T.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	#10	#40	#200		
S-13	CL	232+93	1.0'-4.9	A-6(5)	35	18	8.3	45.9	9.5	36.4	100	99	48	-	-
S-14	CL	232+93	4.9'-6.2	A-2-4(0)	21	NP	9.1	72.6	3.1	15.2	100	99	20	-	-
S-11	CL	239+50	1.0'-5.3	A-6(4)	33	16	9.9	44.0	9.7	36.4	100	99	48	26.7	-
S-12	CL	239+50	5.3'-6.2	A-2-4(0)	23	4	14.6	60.0	2.1	23.2	100	98	26	-	-

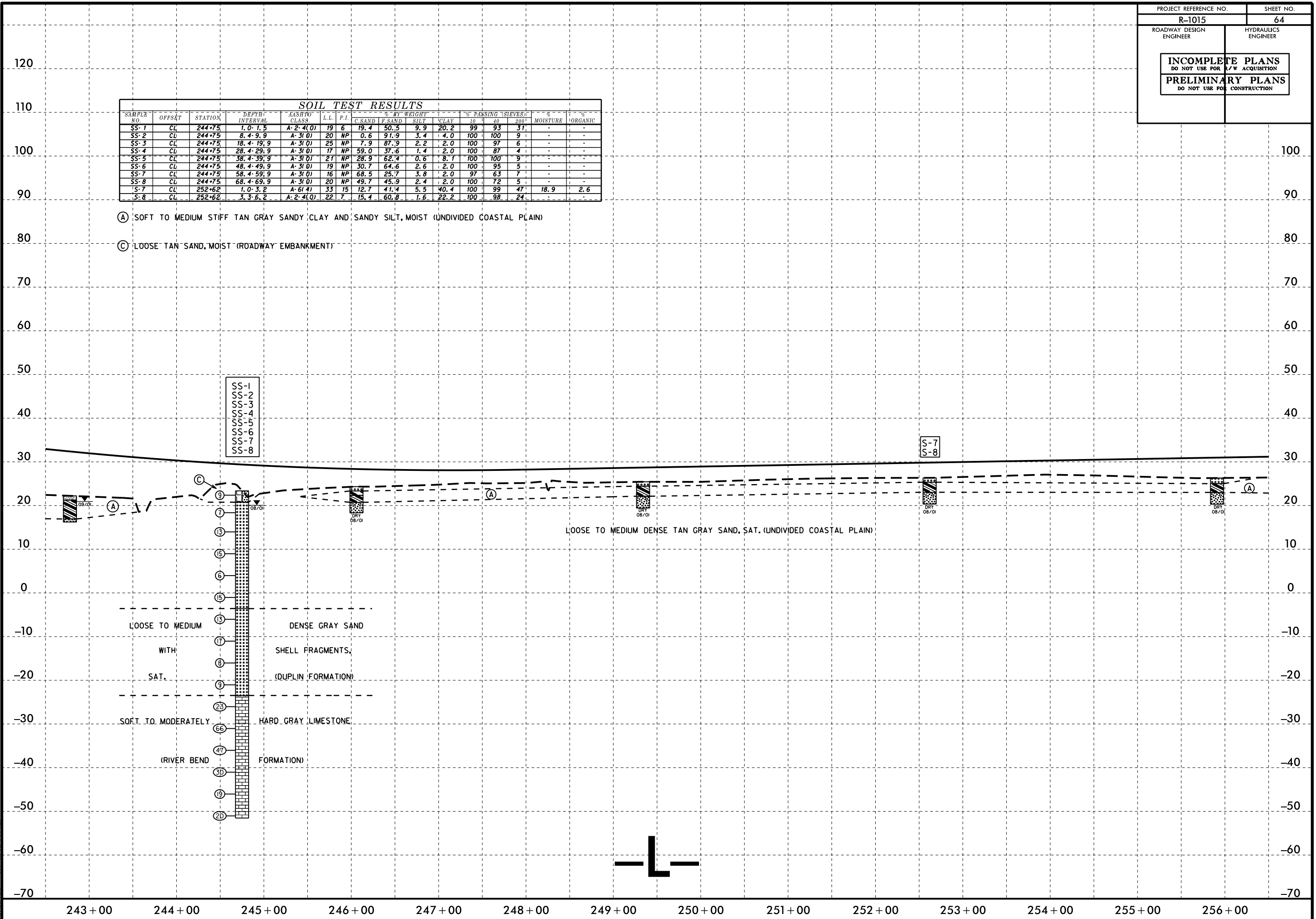
- (A) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ARTIFICIAL FILL)



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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		
SS-1	CL	244+75	1.0-1.5	A-2-4(0)	19	6	19.4	50.5	9.9	20.2	99	93	31	-	-
SS-2	CL	244+75	8.4-9.9	A-3(0)	20	NP	0.6	91.9	3.4	4.0	100	100	9	-	-
SS-3	CL	244+75	18.4-19.9	A-3(0)	25	NP	7.9	87.9	2.2	2.0	100	97	6	-	-
SS-4	CL	244+75	28.4-29.9	A-3(0)	17	NP	59.0	37.6	1.4	2.0	100	87	4	-	-
SS-5	CL	244+75	38.4-39.9	A-3(0)	21	NP	28.9	62.4	0.6	8.1	100	100	9	-	-
SS-6	CL	244+75	48.4-49.9	A-3(0)	19	NP	30.7	64.6	2.6	2.0	100	95	5	-	-
SS-7	CL	244+75	58.4-59.9	A-3(0)	16	NP	68.5	25.7	3.8	2.0	97	63	7	-	-
SS-8	CL	244+75	68.4-69.9	A-3(0)	20	NP	49.7	45.9	2.4	2.0	100	72	5	-	-
S-7	CL	252+62	1.0-3.2	A-6(4)	33	15	12.7	41.4	5.5	40.4	100	99	47	18.9	2.6
S-8	CL	252+62	3.3-6.2	A-2-4(0)	22	7	15.4	60.8	1.6	22.2	100	98	24	-	-

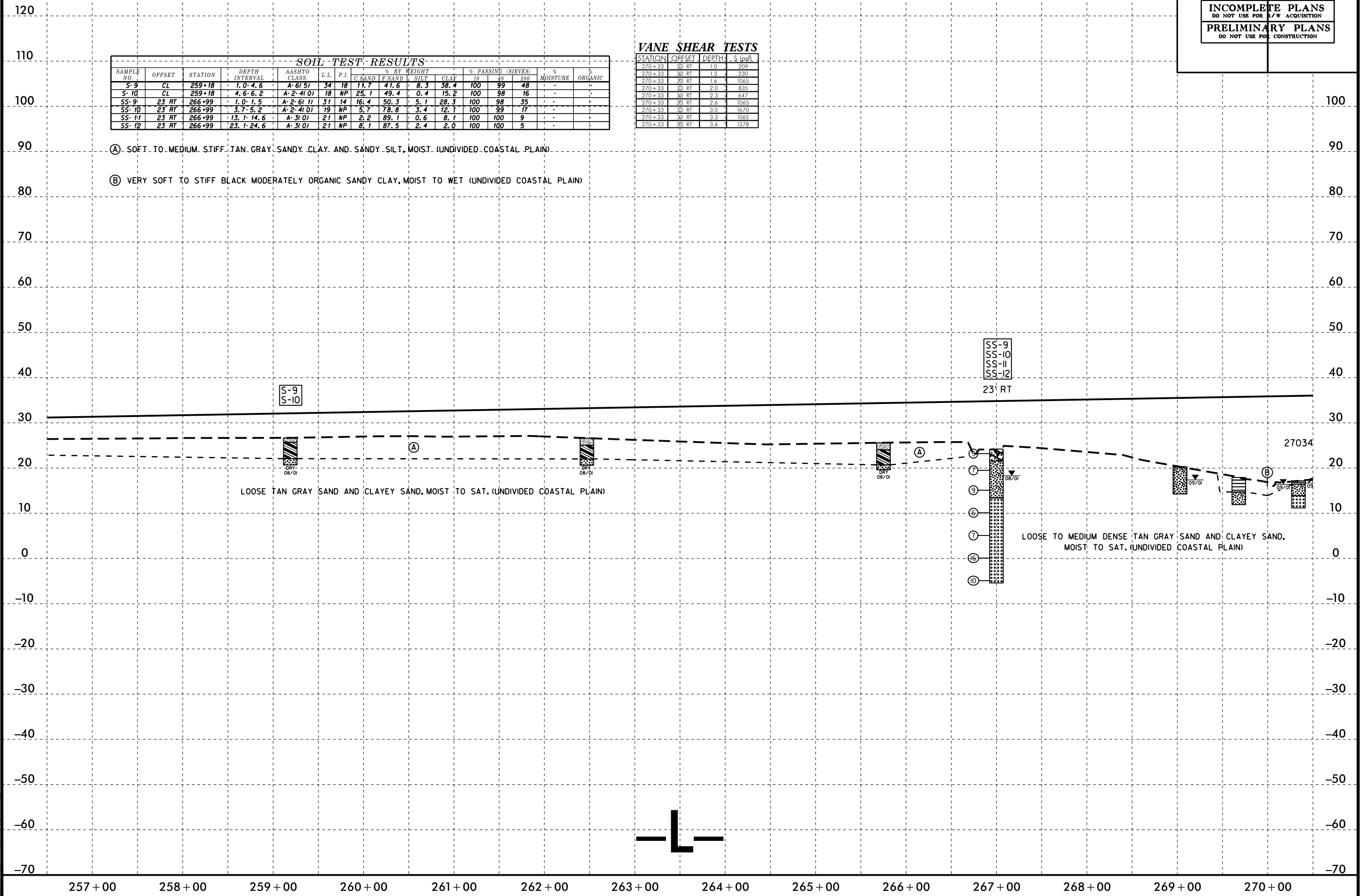
- (A) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)



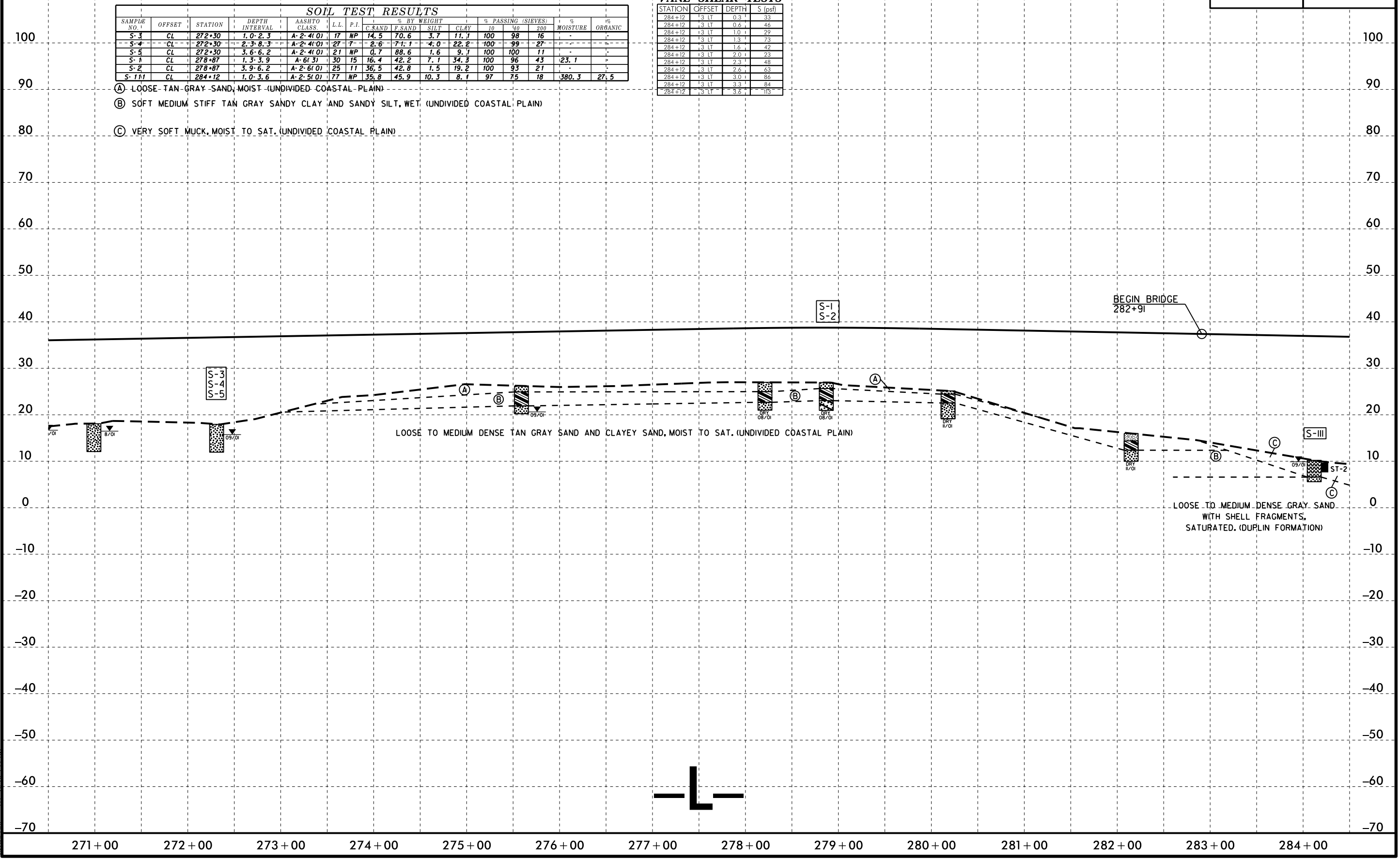
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PROJECT REFERENCE NO. <b>R-1015</b>	SHEET NO. <b>65</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



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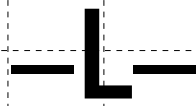
SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	10	40	200		
S-3	CL	272+30	1.0-2.3	A-2-4(0)	17	NP	14.5	70.6	3.7	11.1	100	98	16	-
S-4	CL	272+30	2.3-8.3	A-2-4(0)	27	7	2.6	71.1	4.0	22.2	100	99	27	-
S-5	CL	272+30	3.6-6.2	A-2-4(0)	21	NP	0.7	88.6	1.6	9.1	100	100	11	-
S-1	CL	278+87	1.3-3.9	A-6(3)	30	15	16.4	42.2	7.1	34.3	100	96	43	23.1
S-2	CL	278+87	3.9-6.2	A-2-6(0)	25	11	36.5	42.8	1.5	19.2	100	93	21	-
S-III	CL	284+12	1.0-3.6	A-2-5(0)	77	NP	35.8	45.9	10.3	8.1	97	75	18	380.3

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
284+12	13 LT	0.3'	33
284+12	13 LT	0.6'	46
284+12	13 LT	1.0'	29
284+12	13 LT	1.3'	73
284+12	13 LT	1.6'	42
284+12	13 LT	2.0'	23
284+12	13 LT	2.3'	48
284+12	13 LT	2.6'	63
284+12	13 LT	3.0'	86
284+12	13 LT	3.3'	84
284+12	13 LT	3.6'	115

- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, WET (UNDIVIDED COASTAL PLAIN)
- (C) VERY SOFT MUCK, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)

LOOSE TO MEDIUM DENSE TAN GRAY SAND AND CLAYEY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)

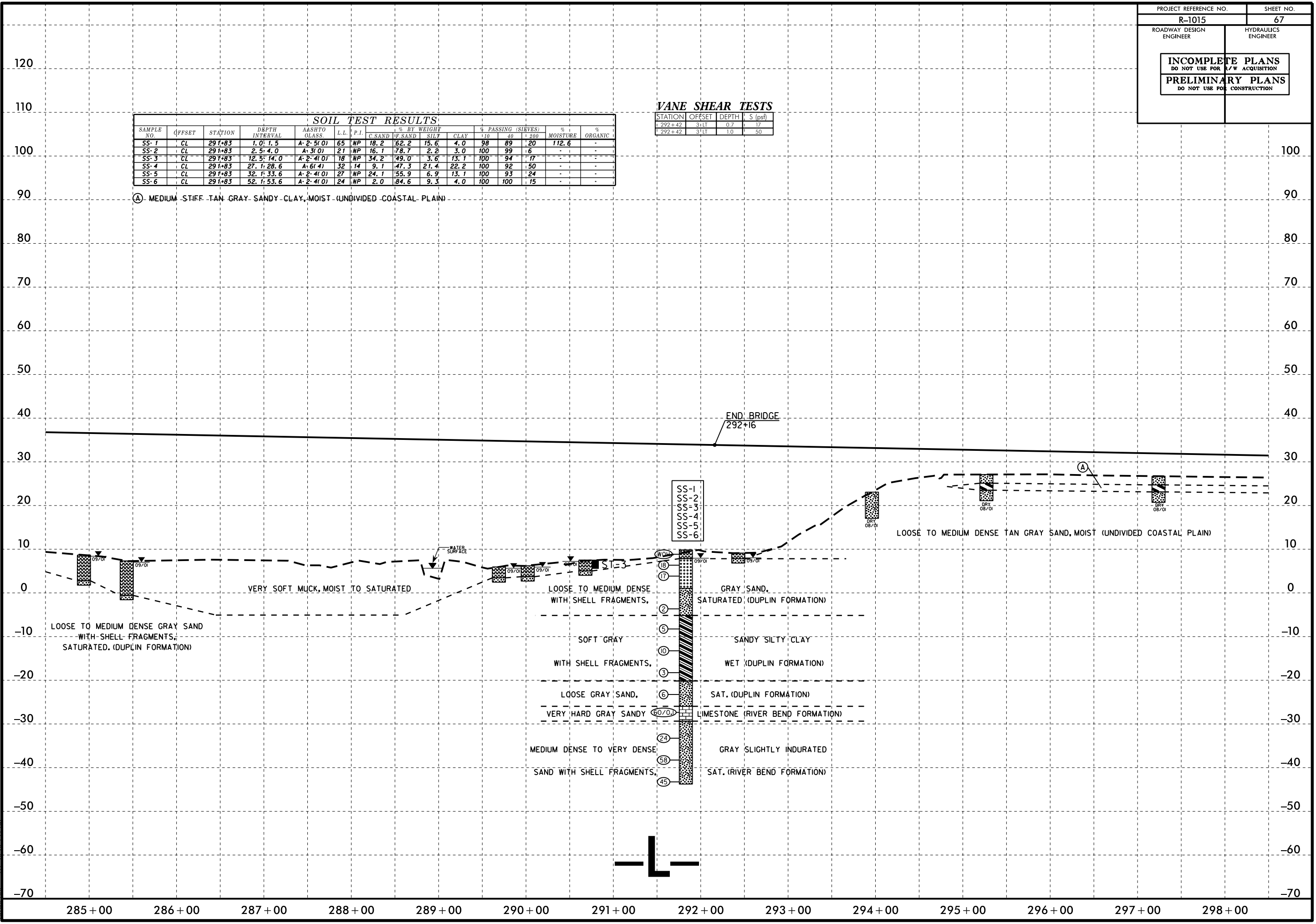
LOOSE TO MEDIUM DENSE GRAY SAND WITH SHELL FRAGMENTS, SATURATED. (DUPLIN FORMATION)



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIZES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
SS-1	CL	291+83	1.0'-1.5'	A-2-5(0)	65	NP	18.2	62.2	15.6	4.0	98	89	20	112.6	-
SS-2	CL	291+83	2.5'-4.0'	A-3(0)	21	NP	16.1	78.7	2.2	3.0	100	99	16	-	-
SS-3	CL	291+83	12.5'-14.0'	A-2-4(0)	18	NP	34.2	49.0	3.6	13.1	100	94	17	-	-
SS-4	CL	291+83	27.1'-28.6'	A-6(4)	32	14	9.1	47.3	21.4	22.2	100	92	50	-	-
SS-5	CL	291+83	32.1'-33.6'	A-2-4(0)	27	NP	24.1	55.9	6.9	13.1	100	93	24	-	-
SS-6	CL	291+83	52.1'-53.6'	A-2-4(0)	24	NP	2.0	84.6	9.3	4.0	100	100	15	-	-

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
292+42	3'LT	0.7'	17
292+42	3'LT	1.0'	50

(A) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

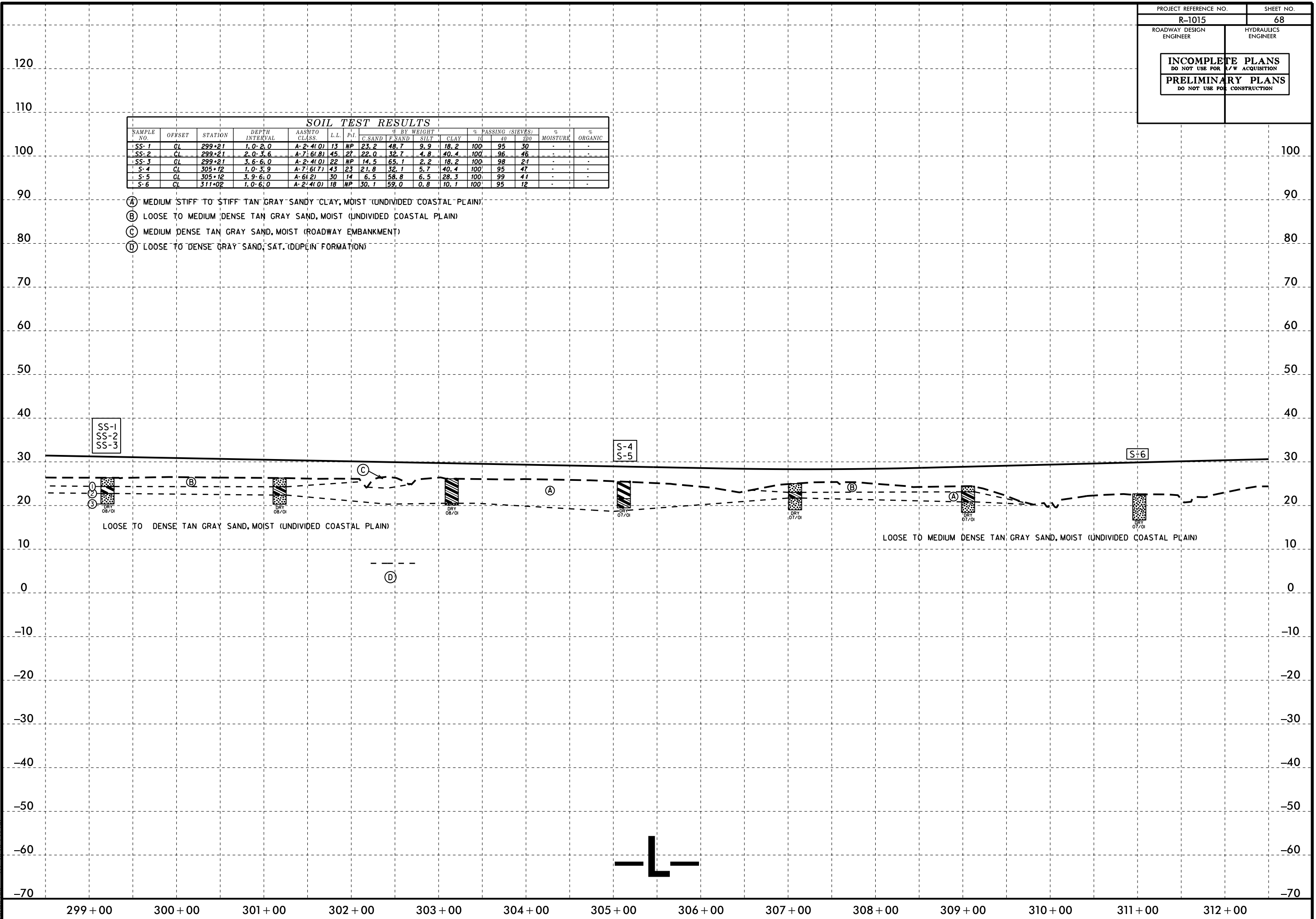


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT	10	40	200			
SS-1	CL	299+21	1.0-2.0	A-2-4(0)	13	NP	23.2	48.7	9.9	18.2	100	95	30	-	-
SS-2	CL	299+21	2.0-3.6	A-7-6(0)	45	27	22.0	32.7	4.8	40.4	100	96	46	-	-
SS-3	CL	299+21	3.6-6.0	A-2-4(0)	22	NP	14.5	65.1	2.2	18.2	100	98	21	-	-
S-4	CL	305+12	1.0-3.9	A-7-6(7)	43	23	21.8	32.1	5.7	40.4	100	95	47	-	-
S-5	CL	305+12	3.9-6.0	A-6-2(1)	30	14	6.5	58.8	6.5	28.3	100	99	41	-	-
S-6	CL	311+02	1.0-6.0	A-2-4(0)	18	NP	30.1	59.0	0.8	10.1	100	95	12	-	-

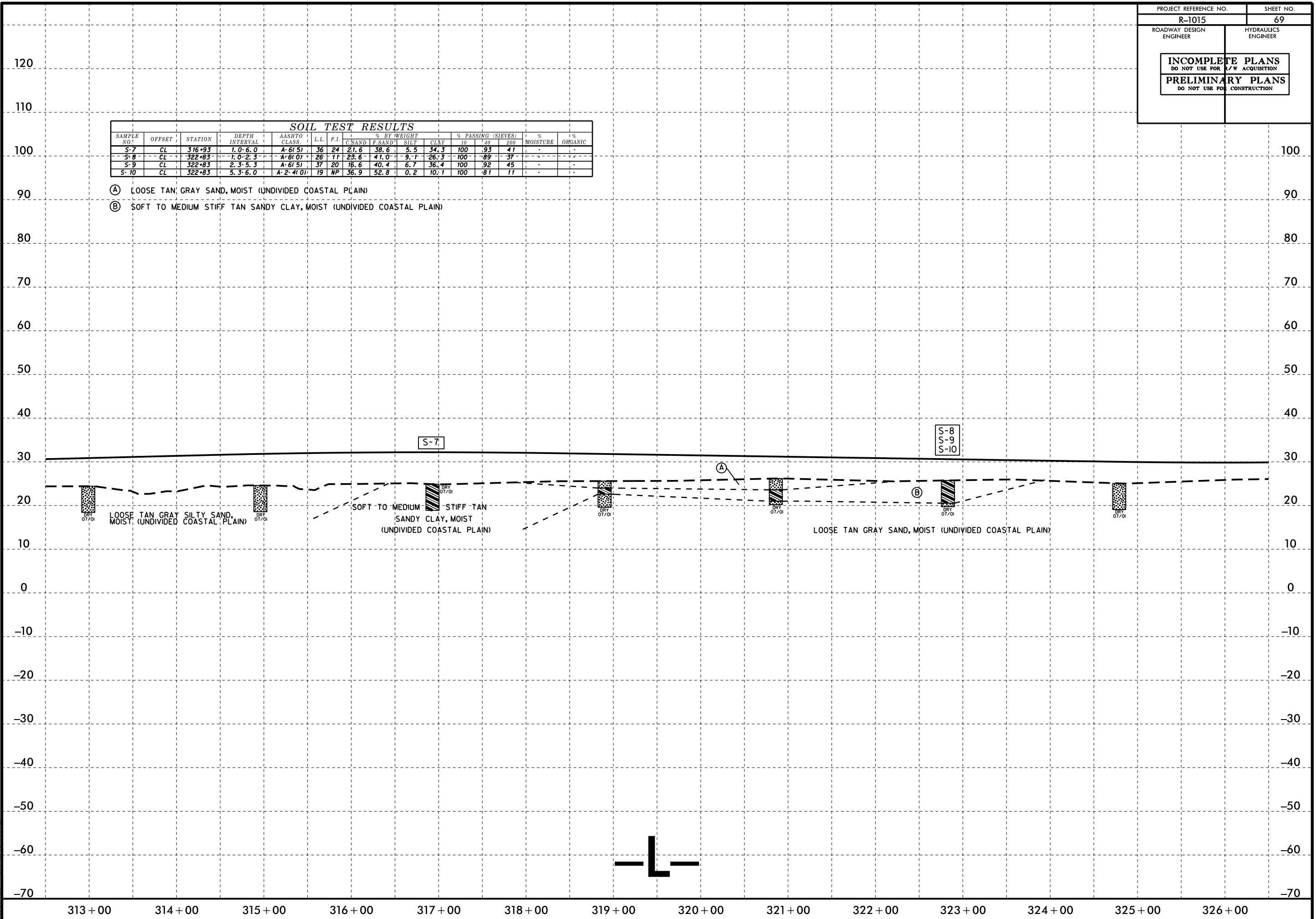
- (A) MEDIUM STIFF TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (C) MEDIUM DENSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)
- (D) LOOSE TO DENSE GRAY SAND, SAT. (DUPLIN FORMATION)



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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-7	CL	316+93	1.0-6.0	A-6(5)	36	24	21.6	38.6	5.5	34.3	100	93	41	-	-
S-8	CL	322+83	1.0-2.3	A-6(0)	26	11	23.6	41.0	9.1	26.3	100	89	37	-	-
S-9	CL	322+83	2.3-5.3	A-6(5)	37	20	18.6	40.4	6.7	36.4	100	92	45	-	-
S-10	CL	322+83	5.3-6.0	A-2-4(0)	19	NP	36.9	52.8	0.2	10.1	100	81	11	-	-

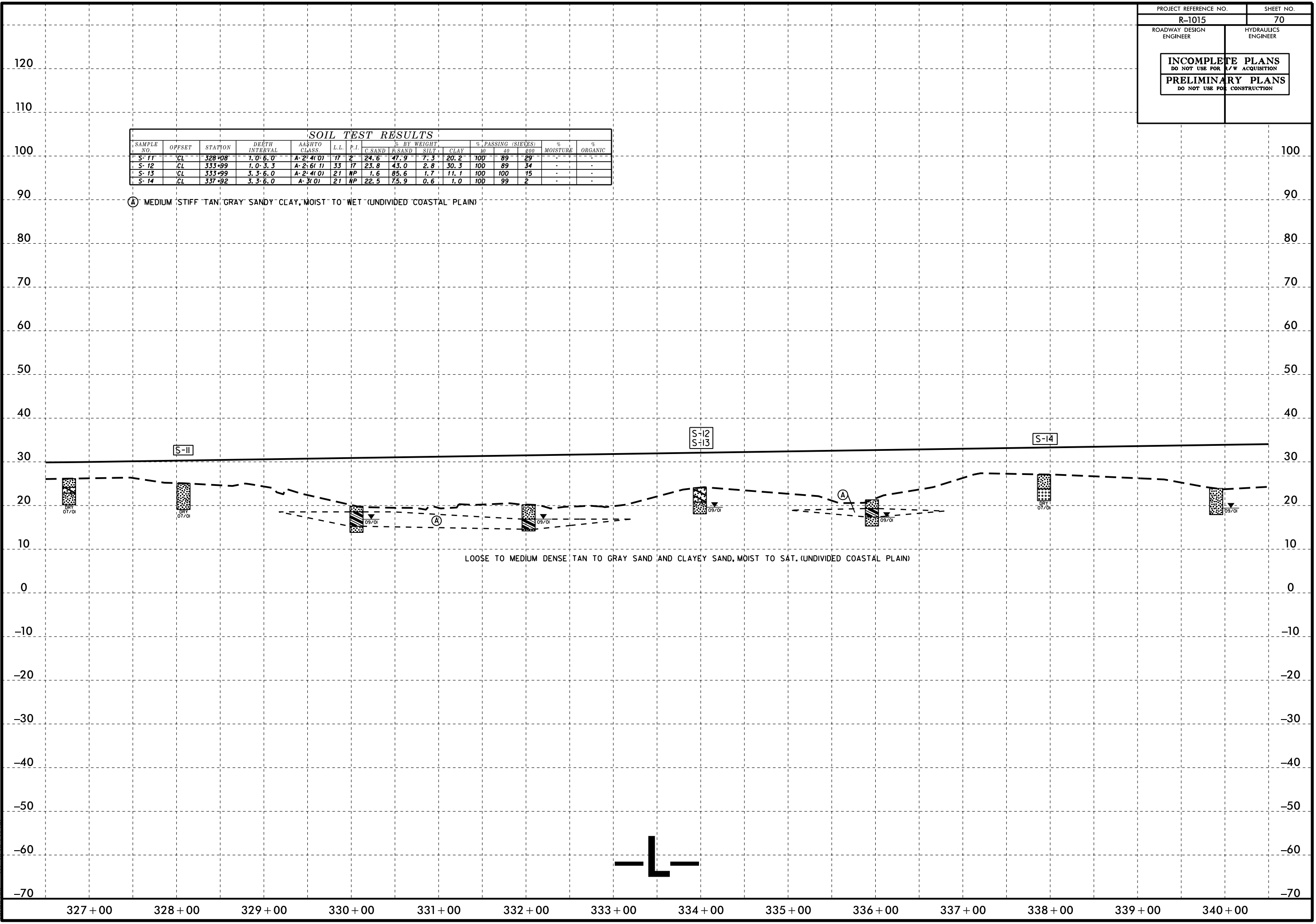
- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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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-11	CL	328+08	1.0-3.0	A-2(4)0	17	2	24.6	47.9	7.3	20.2	100	89	29	-	-
S-12	CL	333+99	1.0-3.3	A-2(6)1	33	17	23.8	43.0	2.8	30.3	100	89	34	-	-
S-13	CL	333+99	3.3-6.0	A-2(4)0	21	MP	1.6	85.6	1.7	11.1	100	100	15	-	-
S-14	CL	337+92	3.3-6.0	A-3(0)	21	MP	22.5	75.9	0.6	1.0	100	99	2	-	-

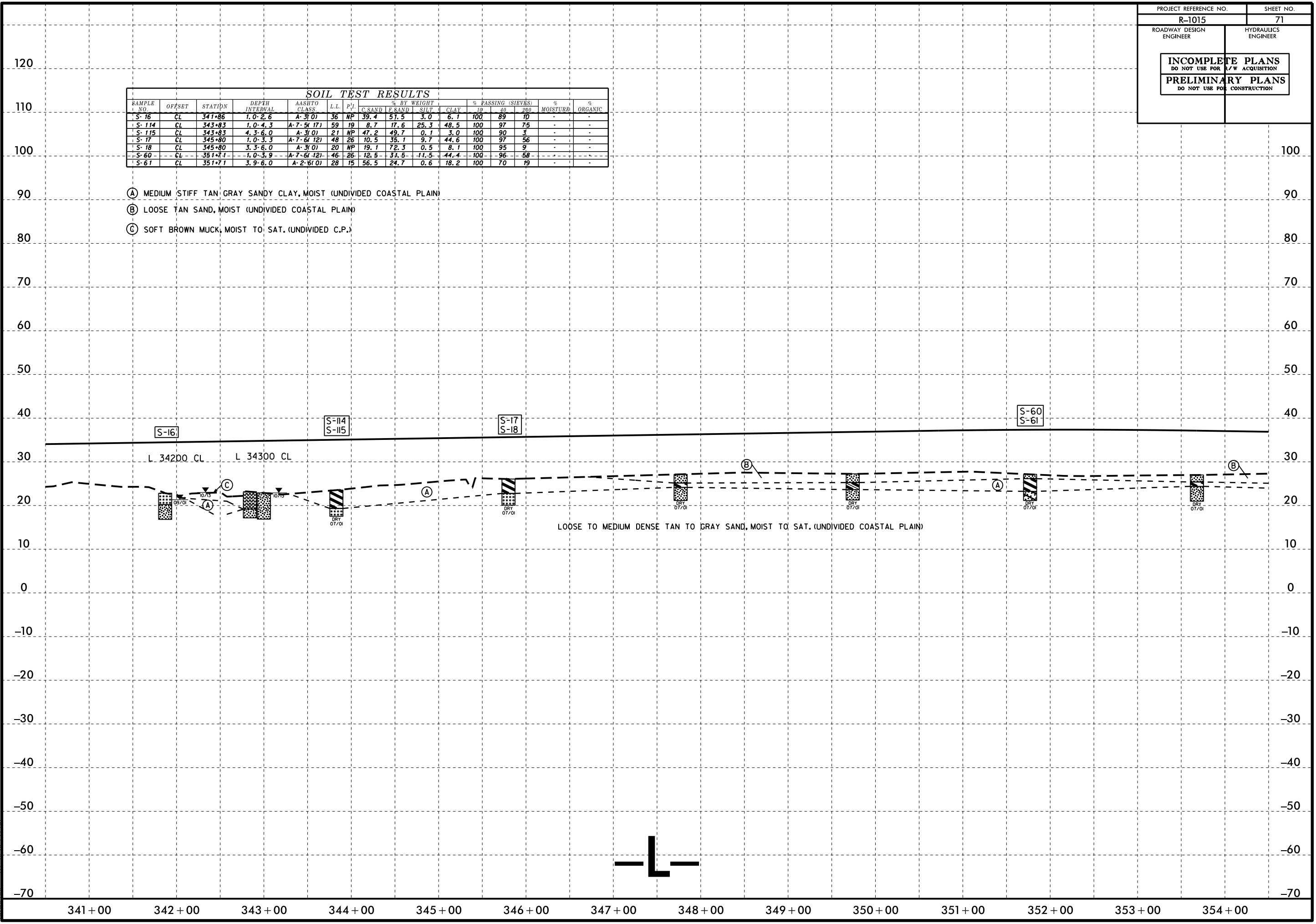
(A) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



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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-16	CL	341+86	1.0-2.6	A-3(0)	36	NP	39.4	51.5	3.0	6.1	100	89	10	-	-
S-114	CL	343+83	1.0-4.3	A-7-5(17)	59	19	8.7	17.6	25.3	48.5	100	97	75	-	-
S-115	CL	343+83	4.3-6.0	A-3(0)	21	NP	47.2	49.7	0.1	3.0	100	90	3	-	-
S-17	CL	345+80	1.0-3.3	A-7-6(12)	48	26	10.5	35.1	9.7	44.6	100	97	56	-	-
S-18	CL	345+80	3.3-6.0	A-3(0)	20	NP	19.1	72.3	0.5	8.1	100	95	9	-	-
S-60	CL	351+71	1.0-3.9	A-7-6(12)	46	26	12.5	31.5	11.5	44.4	100	96	58	-	-
S-61	CL	351+71	3.9-6.0	A-2-6(0)	28	15	56.5	24.7	0.6	18.2	100	70	19	-	-

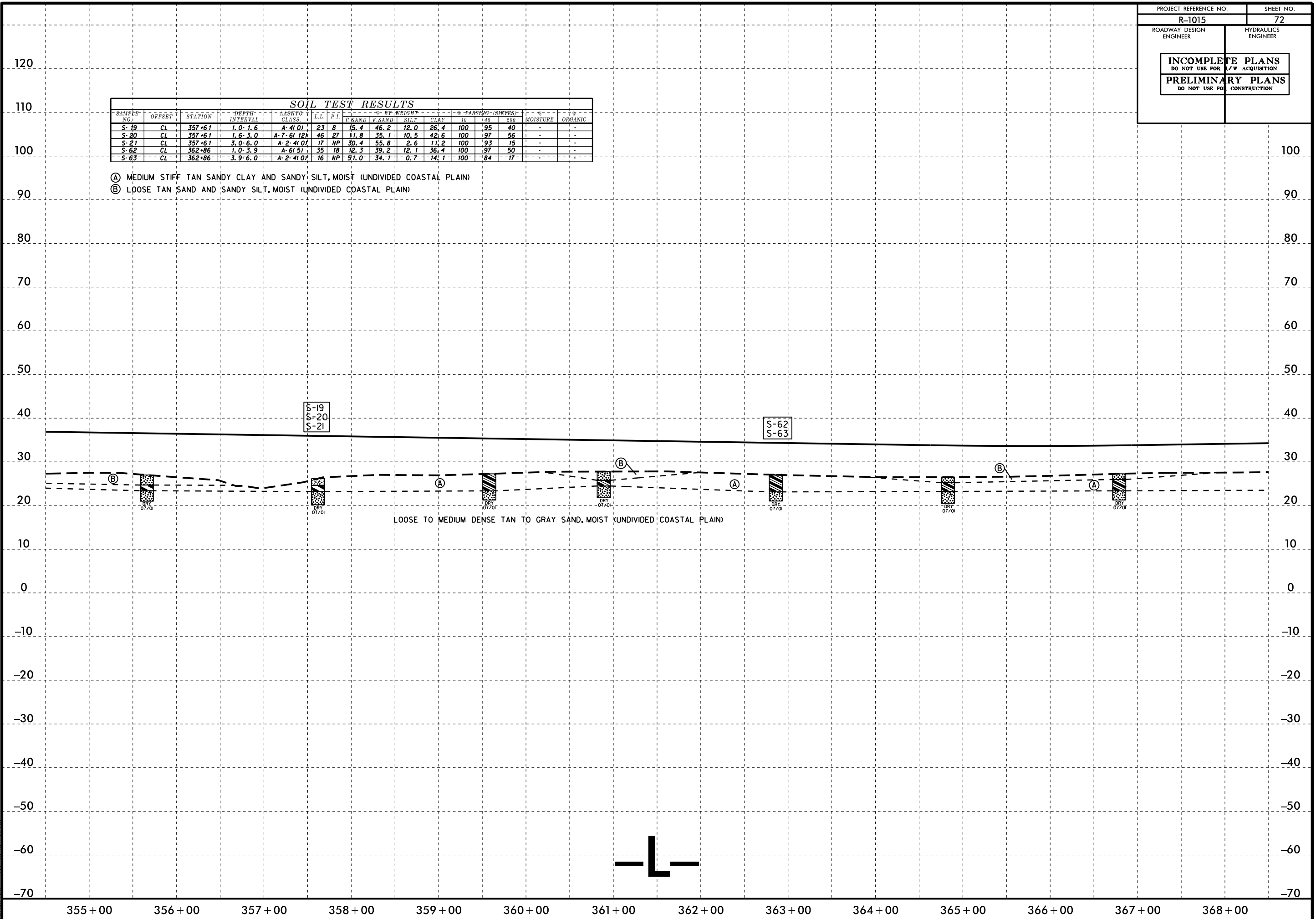
- (A) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE TAN SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (C) SOFT BROWN MUCK, MOIST TO SAT. (UNDIVIDED C.P.)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS		% BY WEIGHT						% PASSING (SIEVES)		MOISTURE	ORGANIC
				LL	P.I.	C SAND	F SAND	SILT	CLAY	10	40	200			
S-19	CL	357+6.1	1.0-1.6	A-4(0)	23	8	15.4	46.2	12.0	26.4	100	95	40	-	-
S-20	CL	357+6.1	1.6-3.0	A-7(6)12)	46	27	11.8	35.1	10.5	42.6	100	97	56	-	-
S-21	CL	357+6.1	3.0-6.0	A-2(4)0)	17	NP	30.4	55.8	2.6	11.2	100	93	15	-	-
S-62	CL	362+86	1.0-3.9	A-6(5)	35	18	12.3	39.2	12.1	36.4	100	97	50	-	-
S-63	CL	362+86	3.9-6.0	A-2(4)0)	16	NP	51.0	34.1	0.7	14.1	100	84	17	-	-

- (A) MEDIUM STIFF TAN SANDY CLAY AND SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE TAN SAND AND SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)



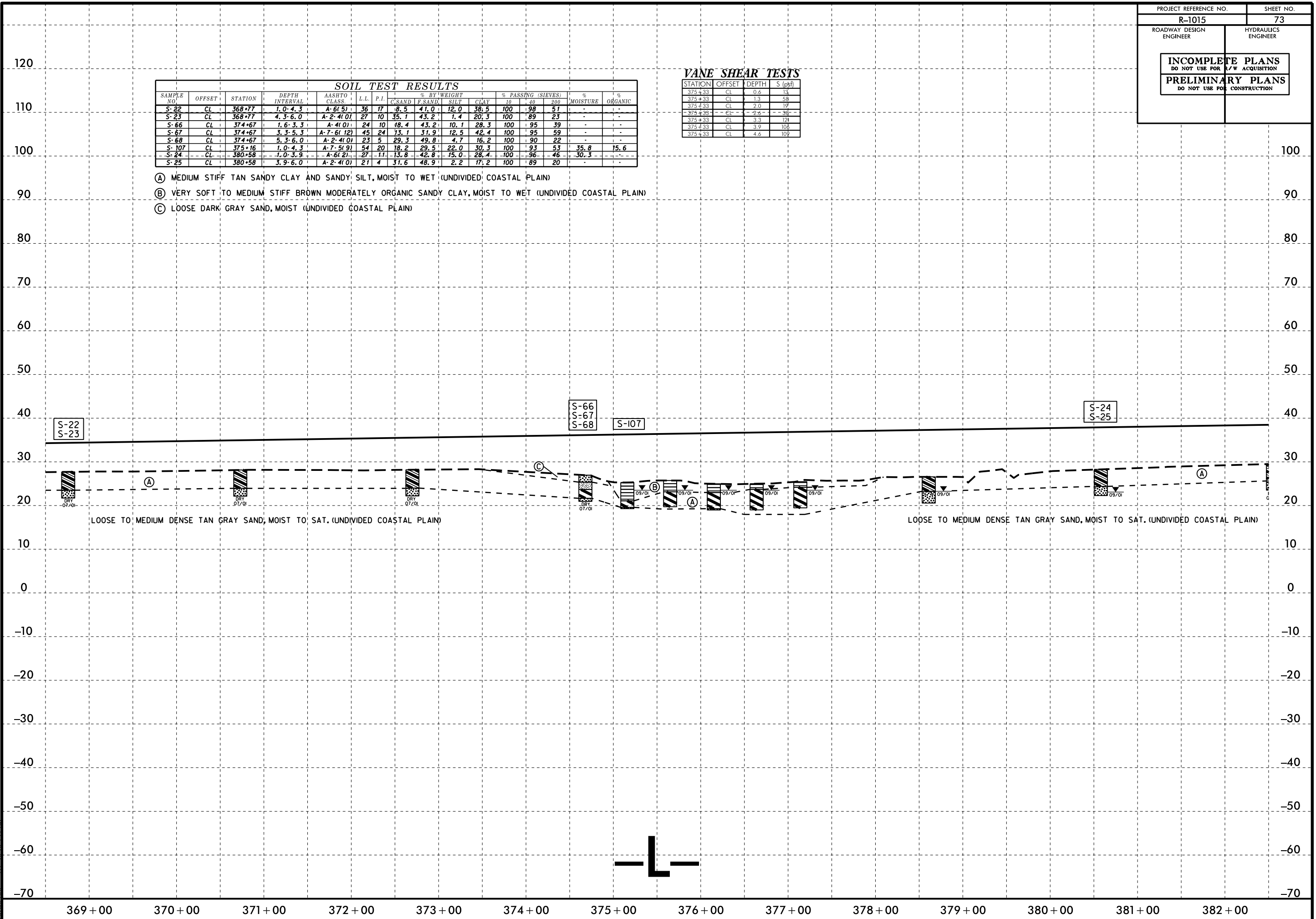
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
S-22	CL	368+77	1.0-4.3	A-6(5)	36	17	8.5	41.0	12.0	38.5	100	98	51	-	-
S-23	CL	368+77	4.3-6.0	A-2-4(0)	27	10	35.1	43.2	1.4	20.3	100	89	23	-	-
S-66	CL	374+67	1.6-3.3	A-4(0)	24	10	48.4	43.2	10.1	28.3	100	95	39	-	-
S-67	CL	374+67	3.3-5.3	A-7-6(12)	45	24	73.1	31.9	12.5	42.4	100	95	59	-	-
S-68	CL	374+67	5.3-6.0	A-2-4(0)	23	5	29.3	49.8	4.7	16.2	100	90	22	-	-
S-107	CL	375+16	1.0-4.3	A-7-5(9)	54	20	18.2	29.5	22.0	30.3	100	93	53	35.8	15.6
S-24	CL	380+58	1.0-3.9	A-6(2)	27	11	13.8	42.8	15.0	28.4	100	96	46	30.3	-
S-25	CL	380+58	3.9-6.0	A-2-4(0)	21	4	31.6	48.9	2.2	17.2	100	89	20	-	-

**VANE SHEAR TESTS**

STATION	OFFSET	DEPTH	S (pcf)
375+33	CL	0.6	13
375+33	CL	1.3	58
375+33	CL	2.0	19
375+33	CL	2.6	38
375+33	CL	3.3	121
375+33	CL	3.9	103
375+33	CL	4.6	107

- (A) MEDIUM STIFF TAN SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) VERY SOFT TO MEDIUM STIFF BROWN MODERATELY ORGANIC SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE DARK GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)

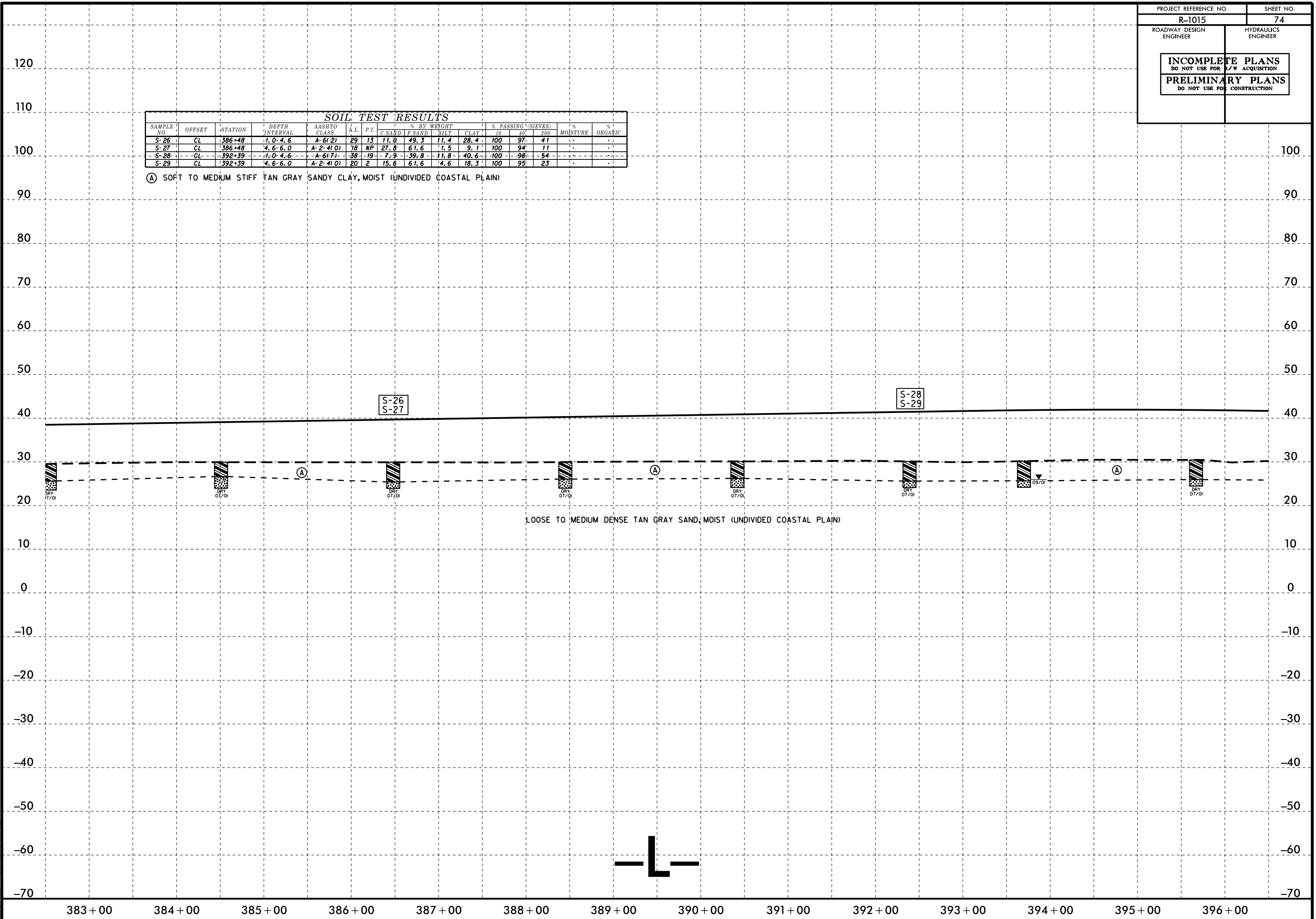


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-26	CL	386+48	1.0-4.6	A-6(2)	29	13	11.0	49.3	11.4	28.4	100	97	41	-	-
S-27	CL	386+48	4.6-6.0	A-2-4(0)	18	NP	27.8	61.6	1.5	9.1	100	94	11	-	-
S-28	CL	392+39	1.0-4.6	A-6(7)	38	19	7.9	39.8	11.8	40.6	100	98	54	-	-
S-29	CL	392+39	4.6-6.0	A-2-4(0)	20	2	15.6	61.6	4.6	18.3	100	95	23	-	-

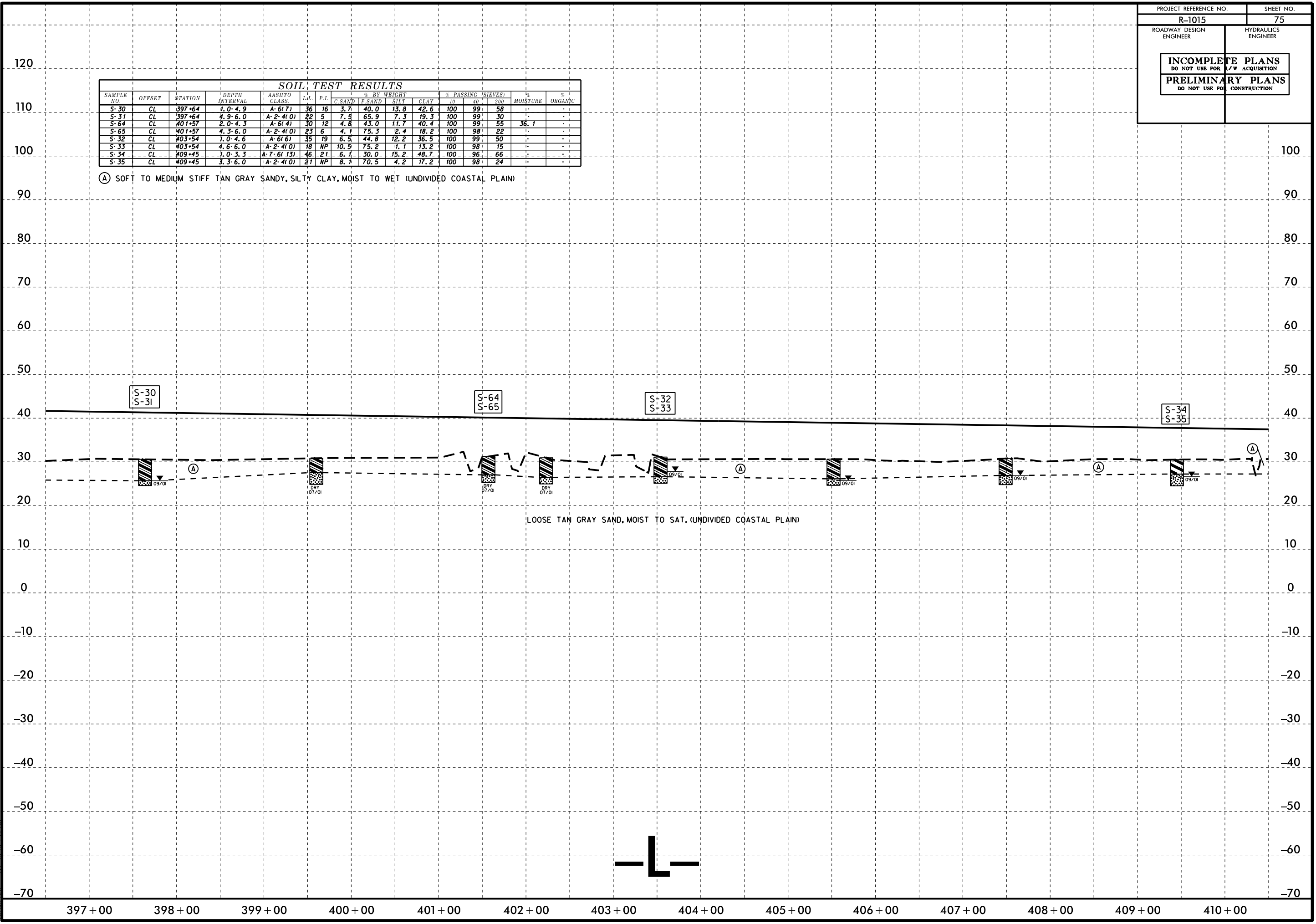
Ⓐ SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	PI	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-30	CL	397+64	1.0-4.9	A-6(7)	36	16	3.7	40.0	13.8	42.6	100	99	58	-	-
S-31	CL	397+64	4.9-6.0	A-2-4(0)	22	5	7.5	65.9	7.3	19.3	100	99	30	-	-
S-64	CL	401+57	2.0-4.3	A-6(4)	30	12	4.8	43.0	11.7	40.4	100	99	55	36.1	-
S-65	CL	401+57	4.3-6.0	A-2-4(0)	23	6	4.1	75.3	2.4	18.2	100	98	22	-	-
S-32	CL	403+54	1.0-4.6	A-6(6)	35	19	6.5	44.8	12.2	36.5	100	99	50	-	-
S-33	CL	403+54	4.6-6.0	A-2-4(0)	18	NP	10.5	75.2	4.1	13.2	100	98	15	-	-
S-34	CL	409+45	1.0-3.3	A-7-6(13)	46	21	6.1	30.0	15.2	48.7	100	96	66	-	-
S-35	CL	409+45	3.3-6.0	A-2-4(0)	21	NP	8.1	70.5	4.2	17.2	100	98	24	-	-

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



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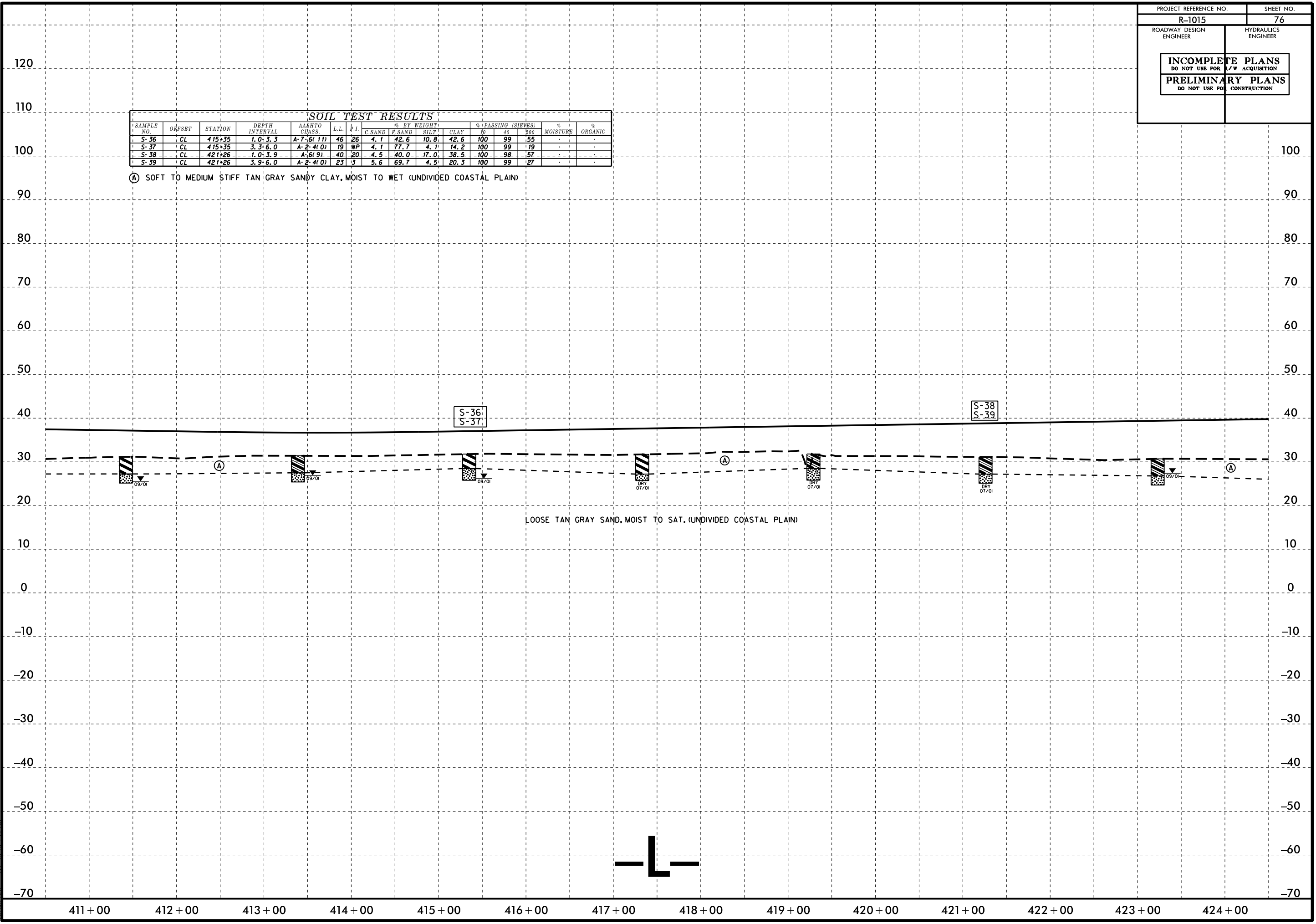


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PROJECT REFERENCE NO. R-1015	SHEET NO. 76
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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		
S-36	CL	415+35	1.0-3.3	A-7.6(11)	46	26	4.1	42.6	10.8	42.6	100	99	55	-	-
S-37	CL	415+35	3.3-6.0	A-2.4(0)	19	WP	4.1	77.7	4.1	14.2	100	99	19	-	-
S-38	CL	421+26	1.0-3.9	A-6(9)	40	20	4.5	40.0	17.0	38.5	100	98	57	-	-
S-39	CL	421+26	3.9-6.0	A-2.4(0)	23	3	5.6	69.7	4.5	20.3	100	99	27	-	-

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

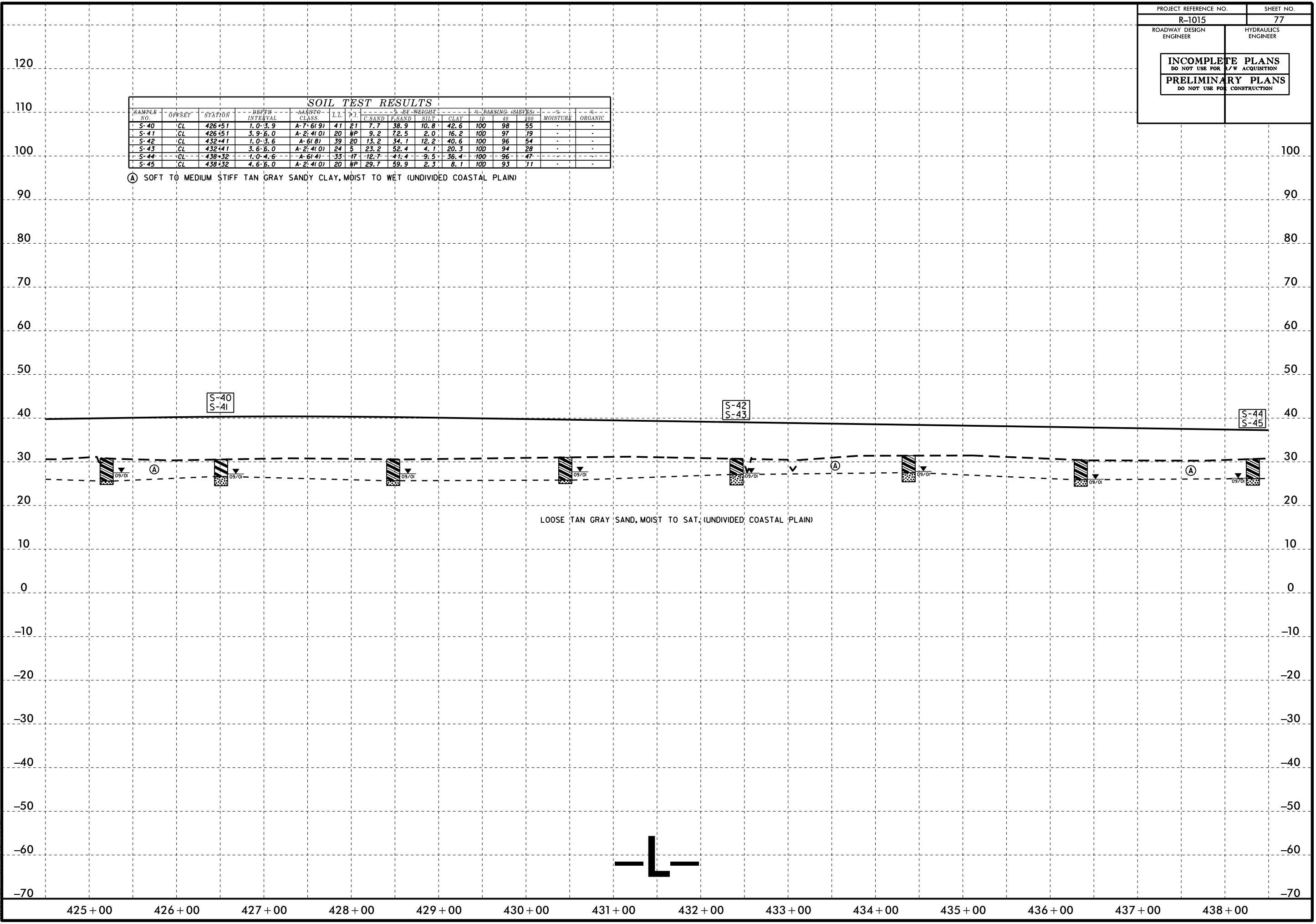


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SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	MOISTURE CLASS	LL	PI	% BY WEIGHT				% PASSING SIEVES		MOISTURE	ORGANIC
							C SAND	F SAND	SILT	CLAY	#10	#20		
S-40	CL	426+51	1.0-3.9	A-7-6(9)	41	21	7.7	38.9	10.8	42.6	100	98	55	-
S-41	CL	426+51	3.9-6.0	A-2-4(0)	20	NP	9.2	72.5	2.0	16.2	100	97	19	-
S-42	CL	432+41	1.0-3.6	A-6(8)	39	20	13.2	34.1	12.2	40.6	100	96	54	-
S-43	CL	432+41	3.6-6.0	A-2-4(0)	24	5	23.2	52.4	4.1	20.3	100	94	28	-
S-44	CL	438+32	1.0-4.6	A-6(4)	33	17	12.7	41.4	9.5	36.4	100	96	47	-
S-45	CL	438+32	4.6-6.0	A-2-4(0)	20	NP	29.7	59.9	2.3	8.1	100	93	11	-

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



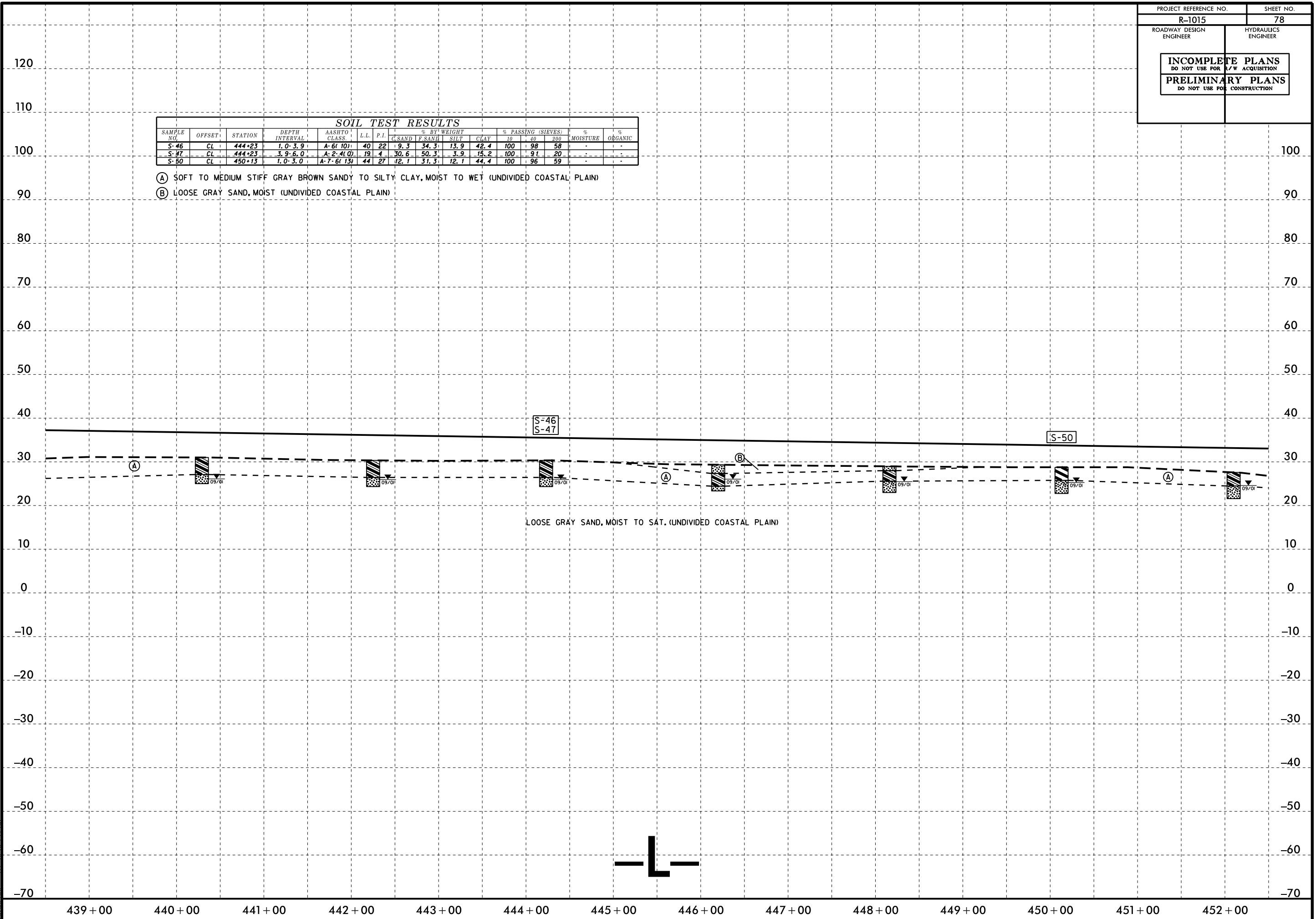
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	78
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							SAND	F. SAND	SILT	CLAY	10	40	200		
S-46	CL	444+23	1.0-3.9	A-6(10)	40	22	9.3	34.3	13.9	42.4	100	98	58	-	-
S-47	CL	444+23	3.9-6.0	A-2-4(0)	19	4	30.6	50.3	3.9	15.2	100	91	20	-	-
S-50	CL	450+13	1.0-3.0	A-7-6(13)	44	27	12.1	31.3	12.1	44.4	100	96	59	-	-

- (A) SOFT TO MEDIUM STIFF GRAY BROWN SANDY TO SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)



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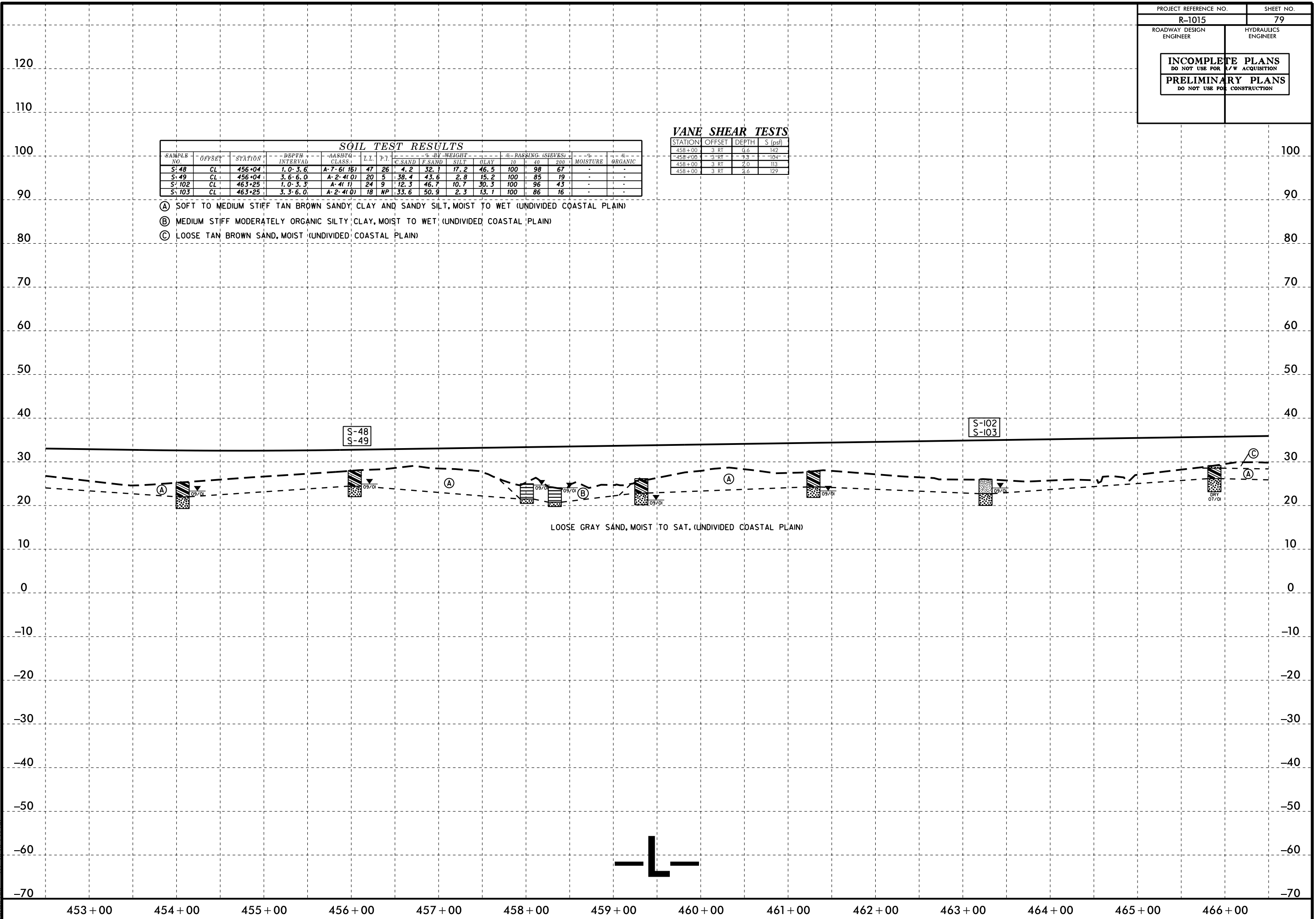
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	79
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.L.	% BY WEIGHT				% PASSING SIEVES			MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-48	CL	456+04	1.0-3.6	A-7-6(16)	47	26	4.2	32.1	17.2	46.5	100	98	67	-	-
S-49	CL	456+04	3.6-6.0	A-2-4(0)	20	5	38.4	43.6	2.8	15.2	100	85	19	-	-
S-102	CL	463+25	1.0-3.3	A-4(1)	24	9	12.3	46.7	10.7	30.3	100	96	43	-	-
S-103	CL	463+25	3.3-6.0	A-2-4(0)	18	NP	33.6	50.9	2.3	13.1	100	86	16	-	-

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
458+00	3 RT	0.6	142
458+00	3 RT	1.3	104
458+00	3 RT	2.0	113
458+00	3 RT	2.6	129

- (A) SOFT TO MEDIUM STIFF TAN BROWN SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF MODERATELY ORGANIC SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN BROWN SAND, MOIST (UNDIVIDED COASTAL PLAIN)



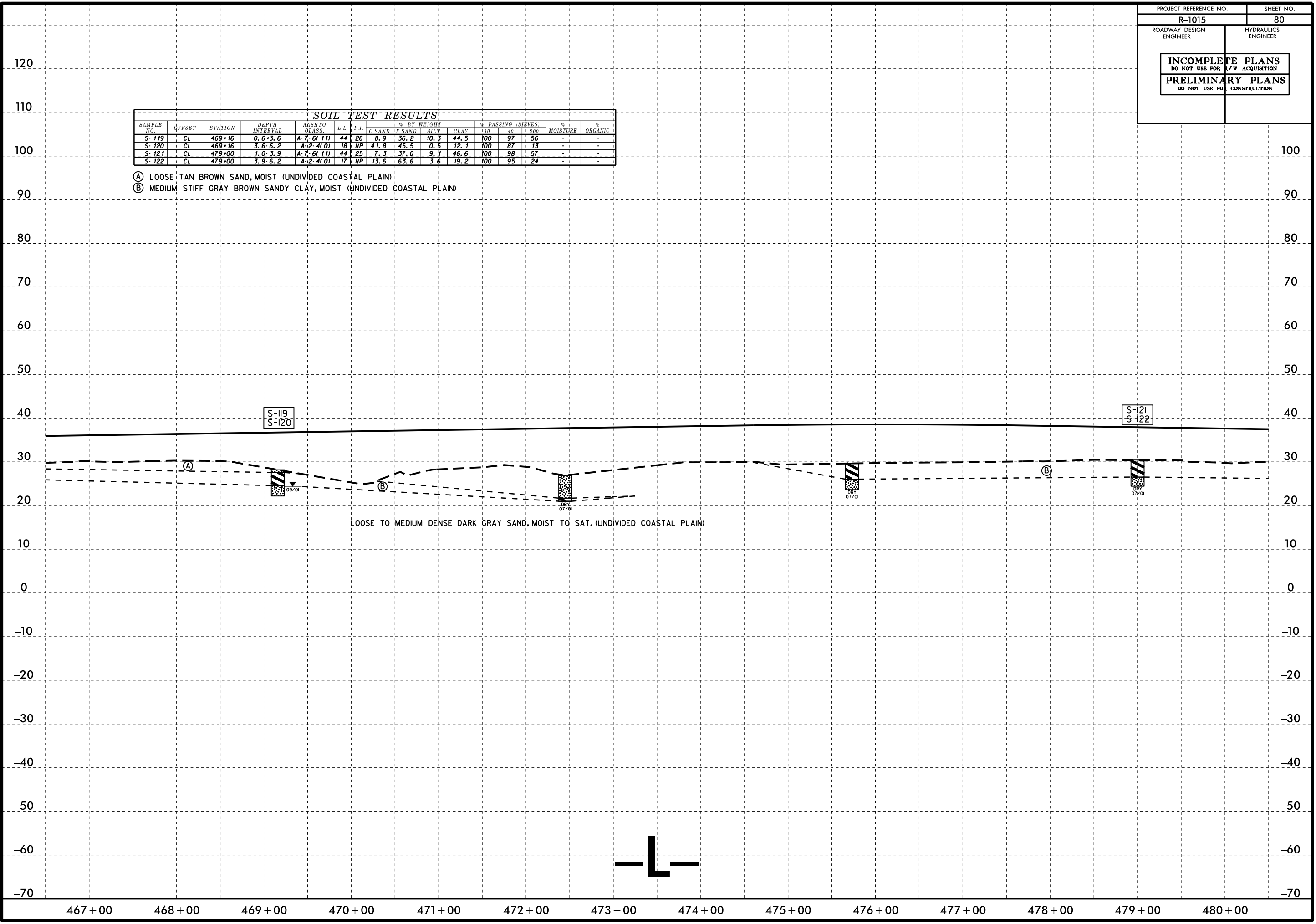
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	80
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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
S-119	CL	469+16	0.6-3.6	A-7-6(11)	44	26	8.9	36.2	10.3	44.5	100	97	56	-	-
S-120	CL	469+16	3.6-6.2	A-2-4(0)	18	NP	41.8	45.5	0.5	12.1	100	87	13	-	-
S-121	CL	479+00	1.0-3.9	A-7-6(11)	44	25	7.3	37.0	9.7	46.6	100	98	57	-	-
S-122	CL	479+00	3.9-6.2	A-2-4(0)	17	NP	13.6	63.6	3.6	19.2	100	95	24	-	-

- (A) LOOSE TAN BROWN SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF GRAY BROWN SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

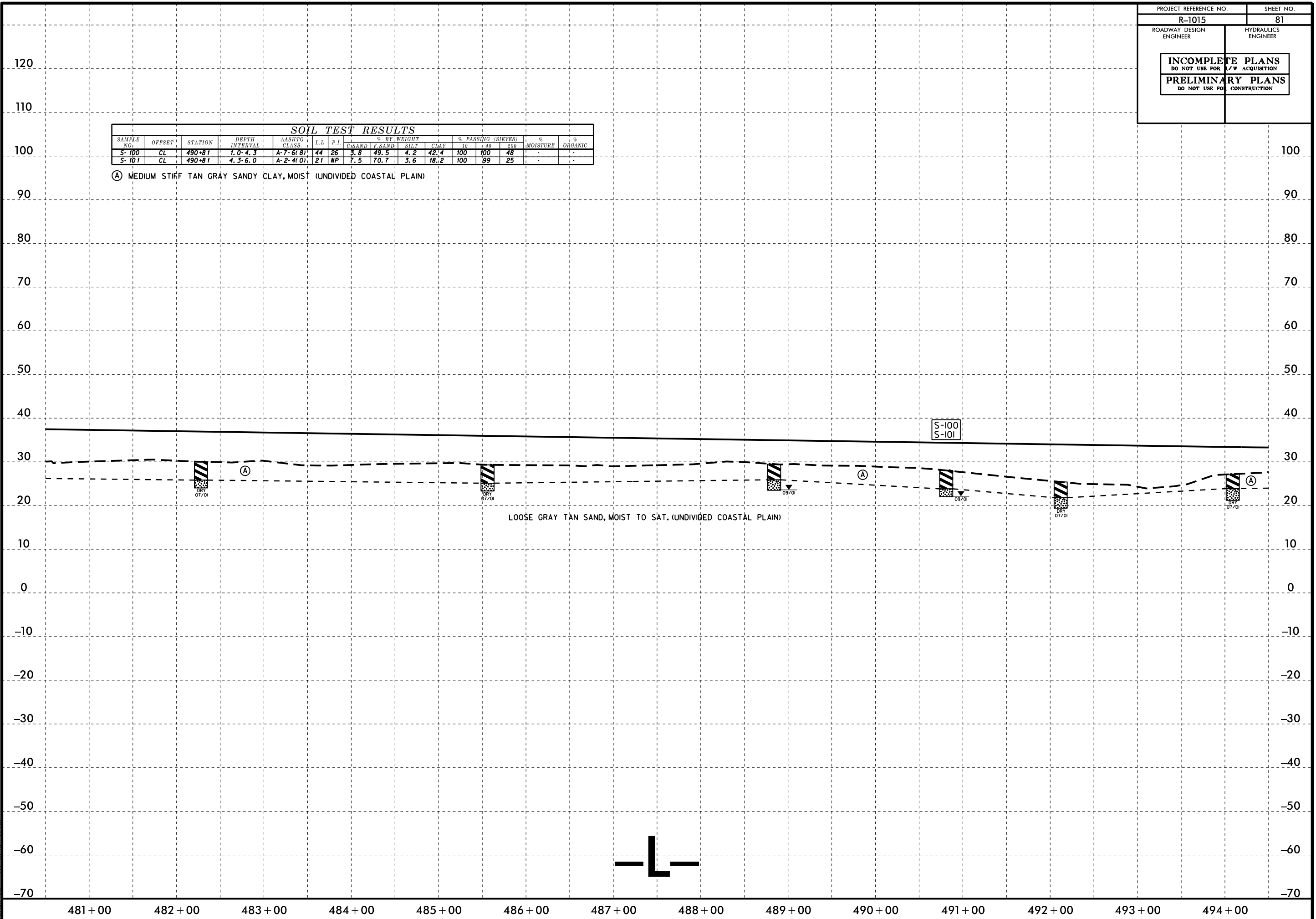


120  
110  
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467+00    468+00    469+00    470+00    471+00    472+00    473+00    474+00    475+00    476+00    477+00    478+00    479+00    480+00

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-100	CL	490+81	1.0-4.3	A-7-6(8)	44	26	3.8	49.5	4.2	42.4	100	100	48	-	-
S-101	CL	490+81	4.3-6.0	A-2-4(0)	21	NP	7.5	70.7	3.6	18.2	100	99	25	-	-

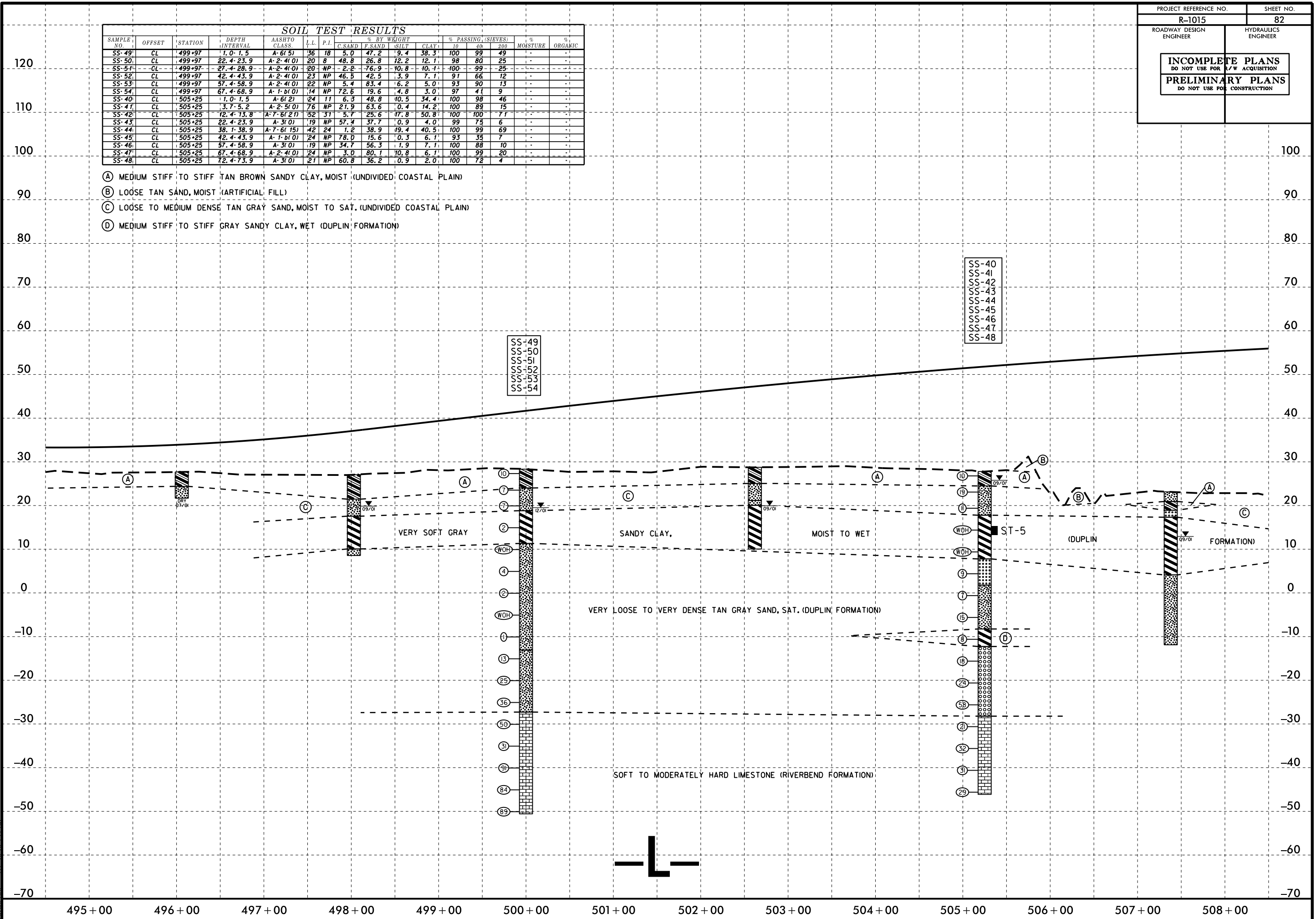
(A) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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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		
SS-49	CL	499+97	1.0-1.5	A-6(5)	36	18	5.0	47.2	9.4	38.3	100	99	49	-	-
SS-50	CL	499+97	22.4-23.9	A-2(4)0	20	8	48.8	26.8	12.2	12.1	98	80	25	-	-
SS-51	CL	499+97	27.4-28.9	A-2(4)0	20	NP	2.2	76.9	10.8	10.1	100	99	25	-	-
SS-52	CL	499+97	42.4-43.9	A-2(4)0	23	NP	46.5	42.5	3.9	7.1	91	66	12	-	-
SS-53	CL	499+97	57.4-58.9	A-2(4)0	22	NP	5.4	83.4	6.2	5.0	93	90	13	-	-
SS-54	CL	499+97	67.4-68.9	A-1(b)0	14	NP	72.6	19.6	4.8	3.0	97	41	9	-	-
SS-40	CL	505+25	1.0-1.5	A-6(2)	24	11	6.3	48.8	10.5	34.4	100	98	46	-	-
SS-41	CL	505+25	3.7-5.2	A-2(5)0	76	NP	21.9	63.6	0.4	14.2	100	89	15	-	-
SS-42	CL	505+25	12.4-13.8	A-7(6)2(1)	52	31	5.7	25.6	17.8	50.8	100	100	71	-	-
SS-43	CL	505+25	22.4-23.9	A-3(0)	19	NP	57.4	37.7	0.9	4.0	99	75	6	-	-
SS-44	CL	505+25	38.1-38.9	A-7(6)1(5)	42	24	1.2	38.9	19.4	40.5	100	99	69	-	-
SS-45	CL	505+25	42.4-43.9	A-1(b)0	24	NP	78.0	15.6	0.3	6.1	93	35	7	-	-
SS-46	CL	505+25	57.4-58.9	A-3(0)	19	NP	34.7	56.3	1.9	7.1	100	88	10	-	-
SS-47	CL	505+25	67.4-68.9	A-2(4)0	24	NP	3.0	80.1	10.8	6.1	100	99	20	-	-
SS-48	CL	505+25	72.4-73.9	A-3(0)	21	NP	60.8	36.2	0.9	2.0	100	72	4	-	-

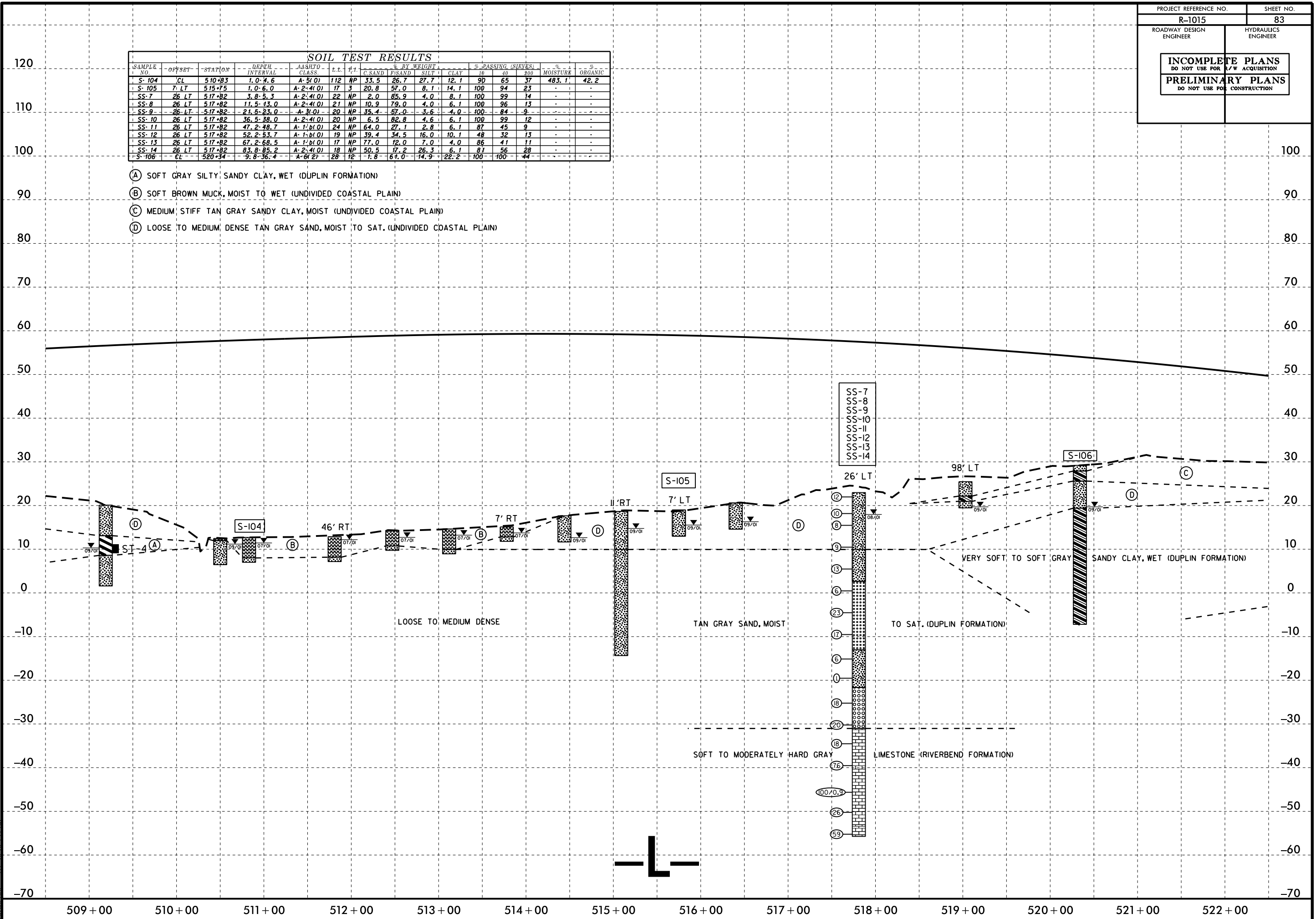
- (A) MEDIUM STIFF TO STIFF TAN BROWN SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE TAN SAND, MOIST (ARTIFICIAL FILL)
- (C) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)
- (D) MEDIUM STIFF TO STIFF GRAY SANDY CLAY, WET (DUPLIN FORMATION)



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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AAASHUD CLASS	L.L.	#.1	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT	CLAY	#10	#20			
S-104	CL	510+83	1.0'-1.6'	A-5(0)	112	NP	33.5	26.7	27.7	12.1	90	65	37	483.1	42.2
S-105	7' LT	515+75	1.0'-6.0'	A-2-4(0)	17	3	20.8	57.0	8.1	14.1	100	94	23	-	-
SS-7	26' LT	517+82	3.8'-5.3'	A-2-4(0)	22	NP	2.0	85.9	4.0	8.1	100	99	14	-	-
SS-8	26' LT	517+82	11.5'-13.0'	A-2-4(0)	21	NP	10.9	79.0	4.0	6.1	100	96	13	-	-
SS-9	26' LT	517+82	21.5'-23.0'	A-3(0)	20	NP	35.4	57.0	3.6	4.0	100	84	9	-	-
SS-10	26' LT	517+82	36.5'-38.0'	A-2-4(0)	20	NP	6.5	82.8	4.6	6.1	100	99	12	-	-
SS-11	26' LT	517+82	47.2'-48.7'	A-1-bl(0)	24	NP	64.0	27.1	2.8	6.1	87	45	9	-	-
SS-12	26' LT	517+82	52.2'-53.7'	A-1-bl(0)	19	NP	39.4	34.5	16.0	10.1	48	32	13	-	-
SS-13	26' LT	517+82	67.2'-68.5'	A-1-bl(0)	17	NP	77.0	12.0	7.0	4.0	86	41	11	-	-
SS-14	26' LT	517+82	83.8'-85.2'	A-2-4(0)	18	NP	50.5	17.2	26.3	6.1	81	56	28	-	-
S-106	CL	520+34	9.8'-36.4'	A-6(2)	28	12	1.8	61.0	14.9	22.2	100	100	44	-	-

- (A) SOFT GRAY SILTY SANDY CLAY, WET (DUPLIN FORMATION)
- (B) SOFT BROWN MUCK, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (D) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)



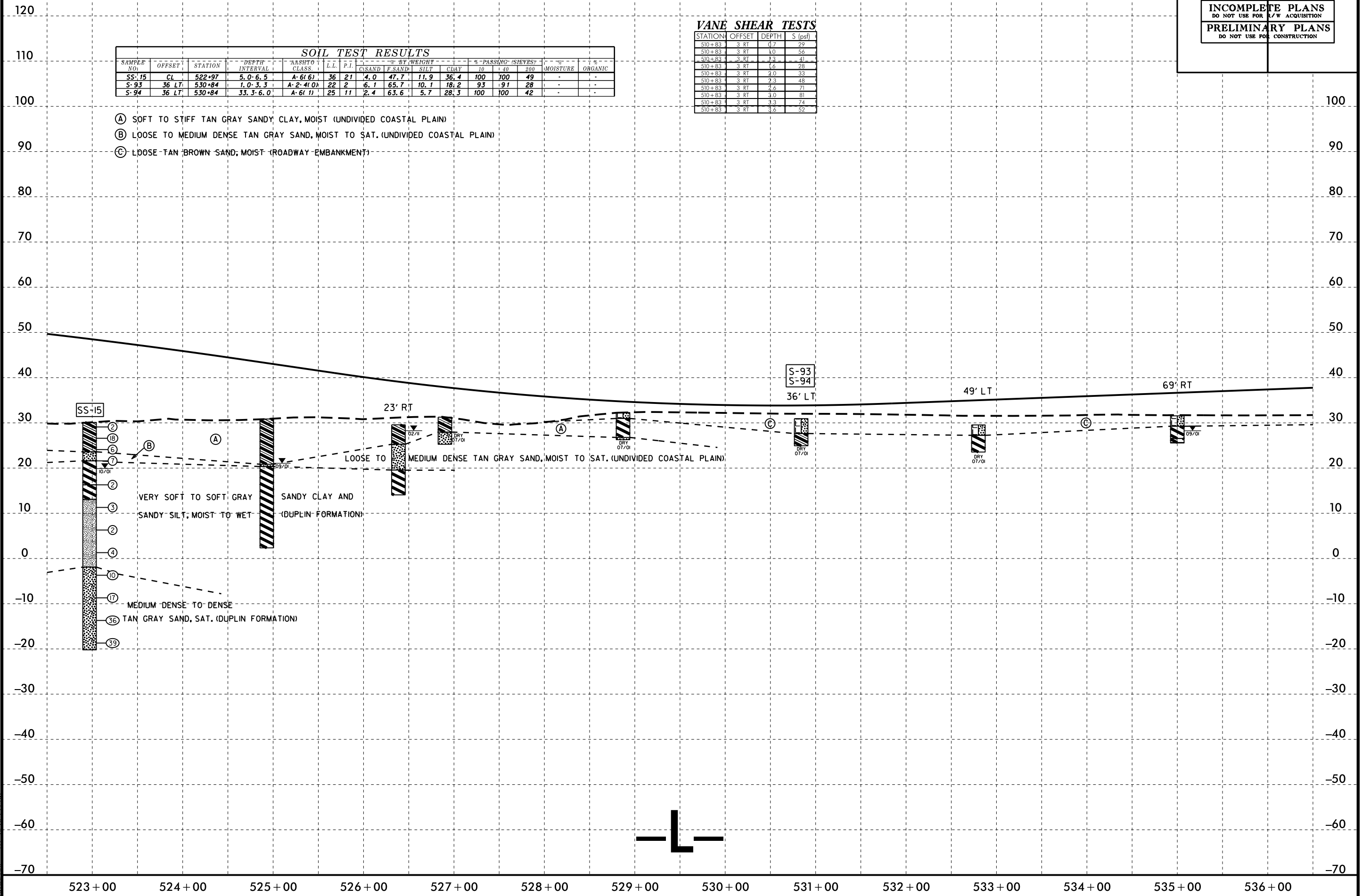
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							SAND	F SAND	SILT	CLAY	10	40	200		
SS-15	CL	522+97	5.0-6.5	A-6(6)	36	21	4.0	47.7	11.9	36.4	100	100	49	-	-
S-93	36 LT	530+84	1.0-3.3	A-2-4(0)	22	2	6.1	65.7	10.1	18.2	93	91	28	-	-
S-94	36 LT	530+84	33.3-6.0	A-6(1)	25	11	2.4	63.6	5.7	28.3	100	100	42	-	-

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
510+83	3 RT	1.7	29
510+83	3 RT	1.0	56
510+83	3 RT	1.3	41
510+83	3 RT	1.6	28
510+83	3 RT	2.0	33
510+83	3 RT	2.3	48
510+83	3 RT	2.6	71
510+83	3 RT	3.0	81
510+83	3 RT	3.3	74
510+83	3 RT	3.6	52

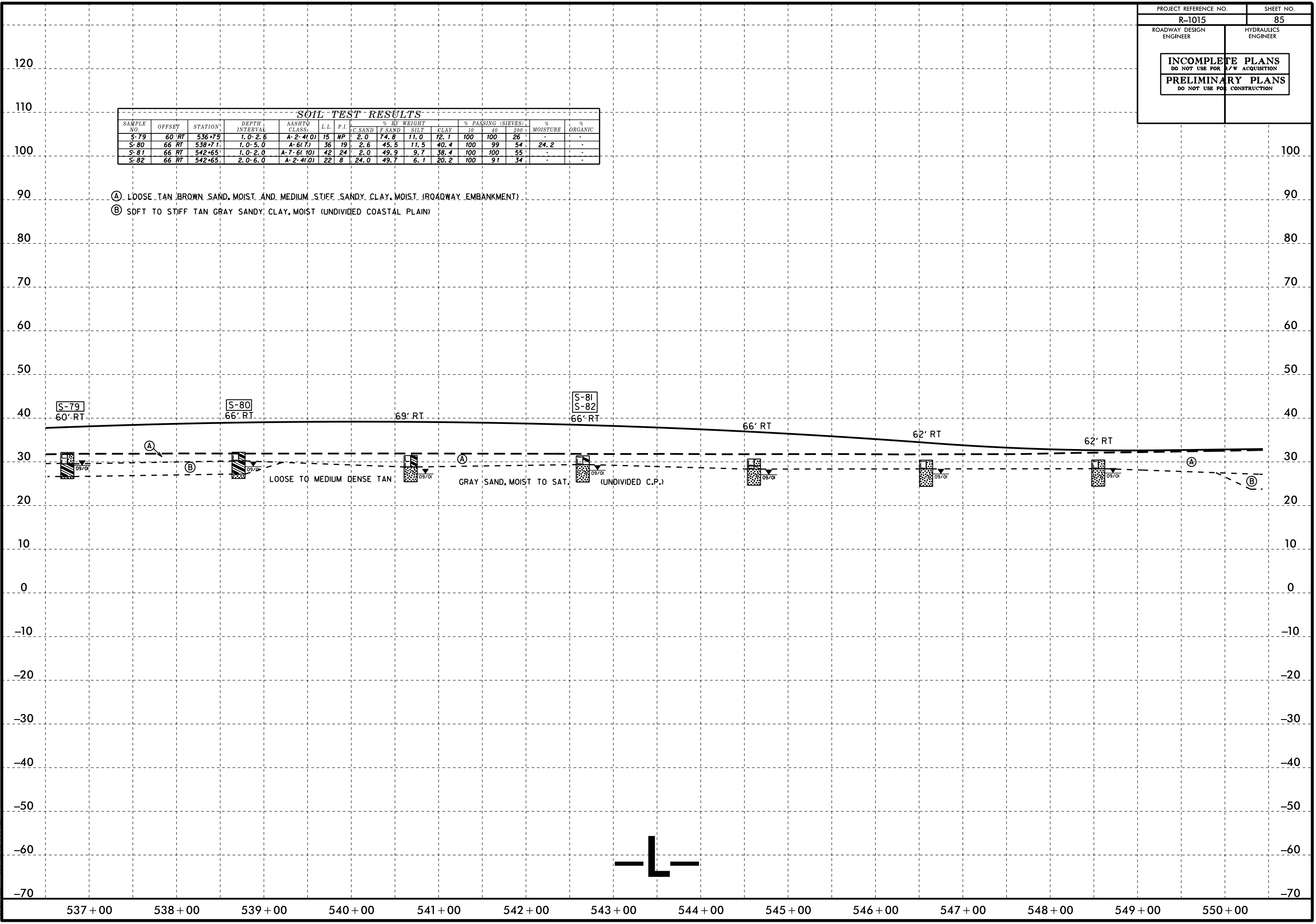
- (A) SOFT TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN BROWN SAND, MOIST (ROADWAY EMBANKMENT)



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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-79	60' RT	536+75	1.0-2.6	A-2-4(0)	15	NP	2.0	74.8	11.0	12.1	100	100	26	-	-
S-80	66' RT	538+71	1.0-5.0	A-6(7)	36	19	2.6	45.5	11.5	40.4	100	99	54	24.2	-
S-81	66' RT	542+65	1.0-2.0	A-7-6(10)	42	24	2.0	49.9	9.7	38.4	100	100	55	-	-
S-82	66' RT	542+65	2.0-6.0	A-2-4(0)	22	8	24.0	49.7	6.1	20.2	100	91	34	-	-

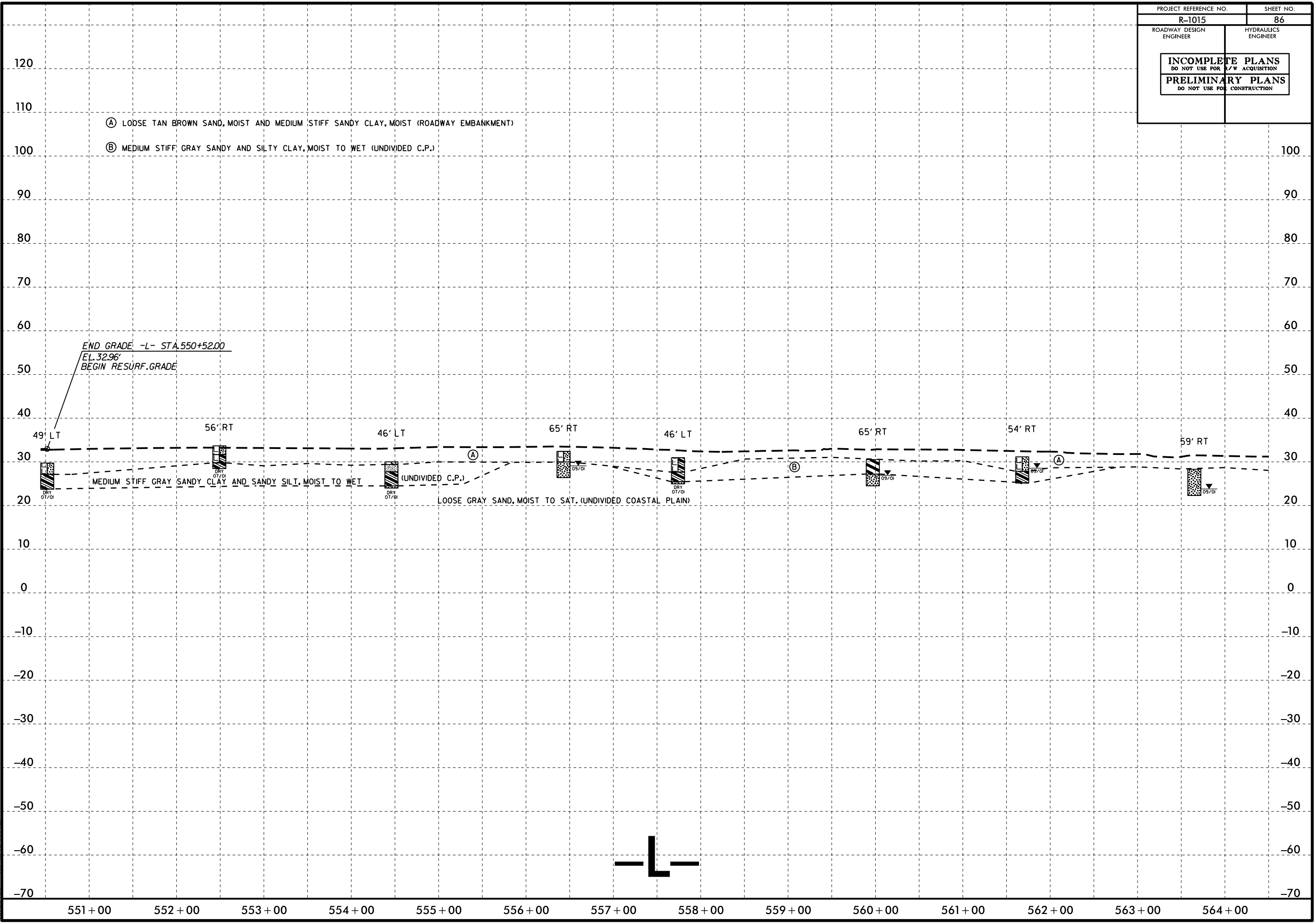
- (A) LOOSE TAN BROWN SAND, MOIST AND MEDIUM STIFF SANDY CLAY, MOIST (ROADWAY EMBANKMENT)
- (B) SOFT TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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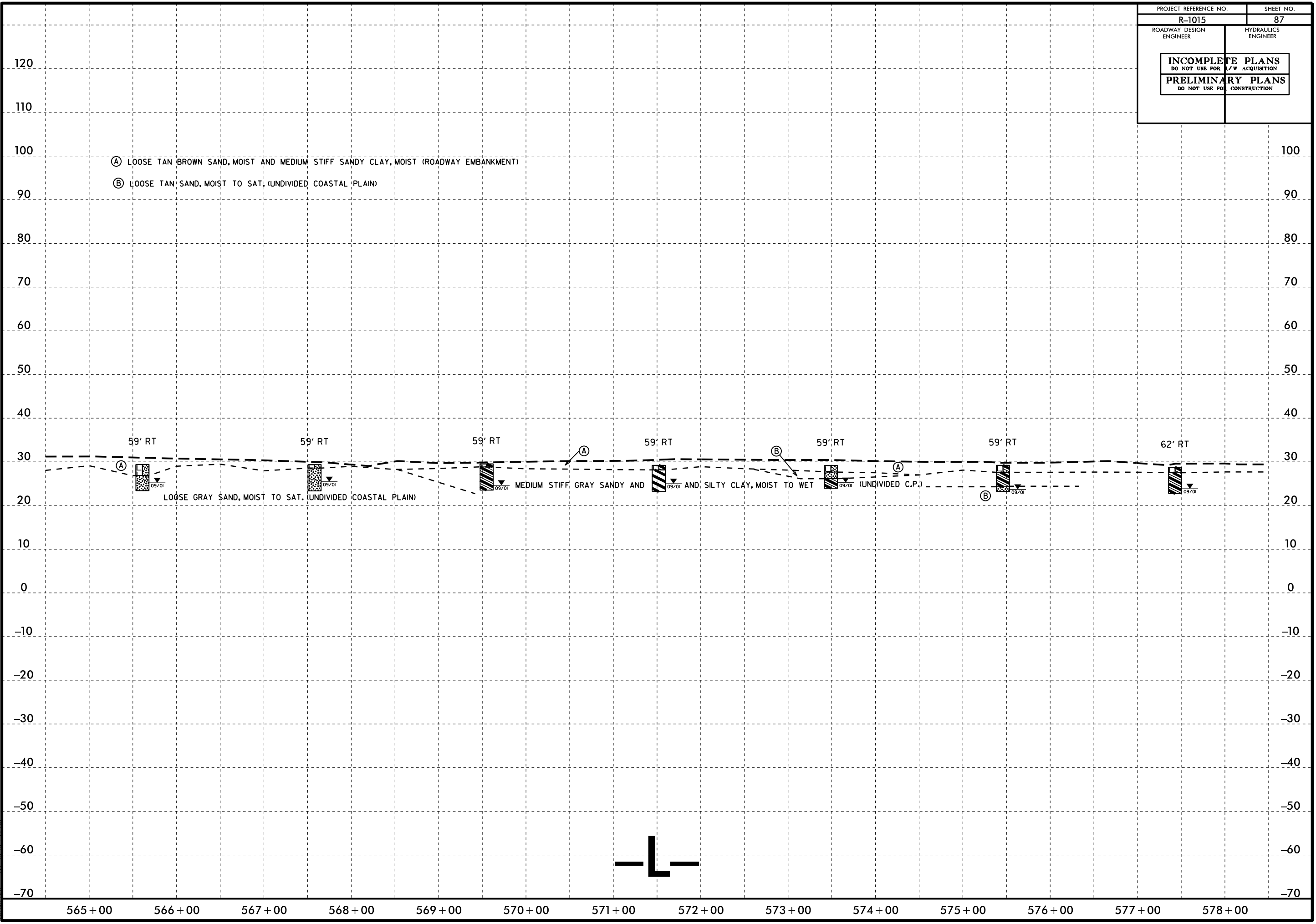
PROJECT REFERENCE NO.	SHEET NO.
R-1015	86
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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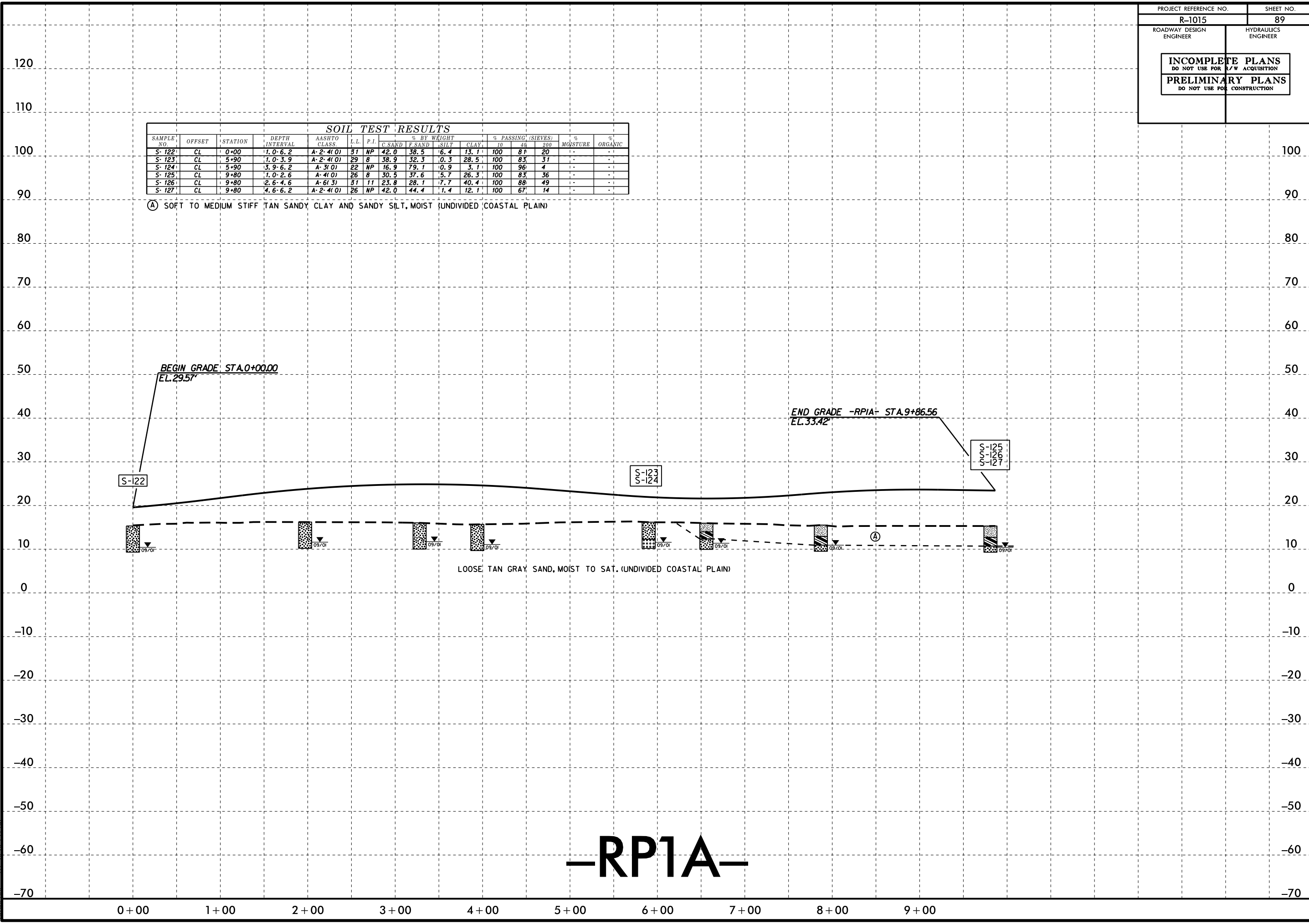
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	87
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



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		
S-122	CL	0+00	1.0-6.2	A-2-4(0)	31	NP	42.0	38.5	6.4	13.1	100	81	20	-	-
S-123	CL	5+90	1.0-3.9	A-2-4(0)	29	8	38.9	32.3	0.3	28.5	100	85	31	-	-
S-124	CL	5+90	3.9-6.2	A-3(0)	22	NP	16.9	79.1	0.9	3.1	100	96	4	-	-
S-125	CL	9+80	1.0-2.6	A-4(0)	26	8	30.5	37.6	5.7	26.3	100	85	36	-	-
S-126	CL	9+80	2.6-4.6	A-6(3)	31	11	23.8	28.1	7.7	40.4	100	88	49	-	-
S-127	CL	9+80	4.6-6.2	A-2-4(0)	26	NP	42.0	44.4	1.4	12.1	100	67	14	-	-

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



LOOSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)

**-RP1A-**

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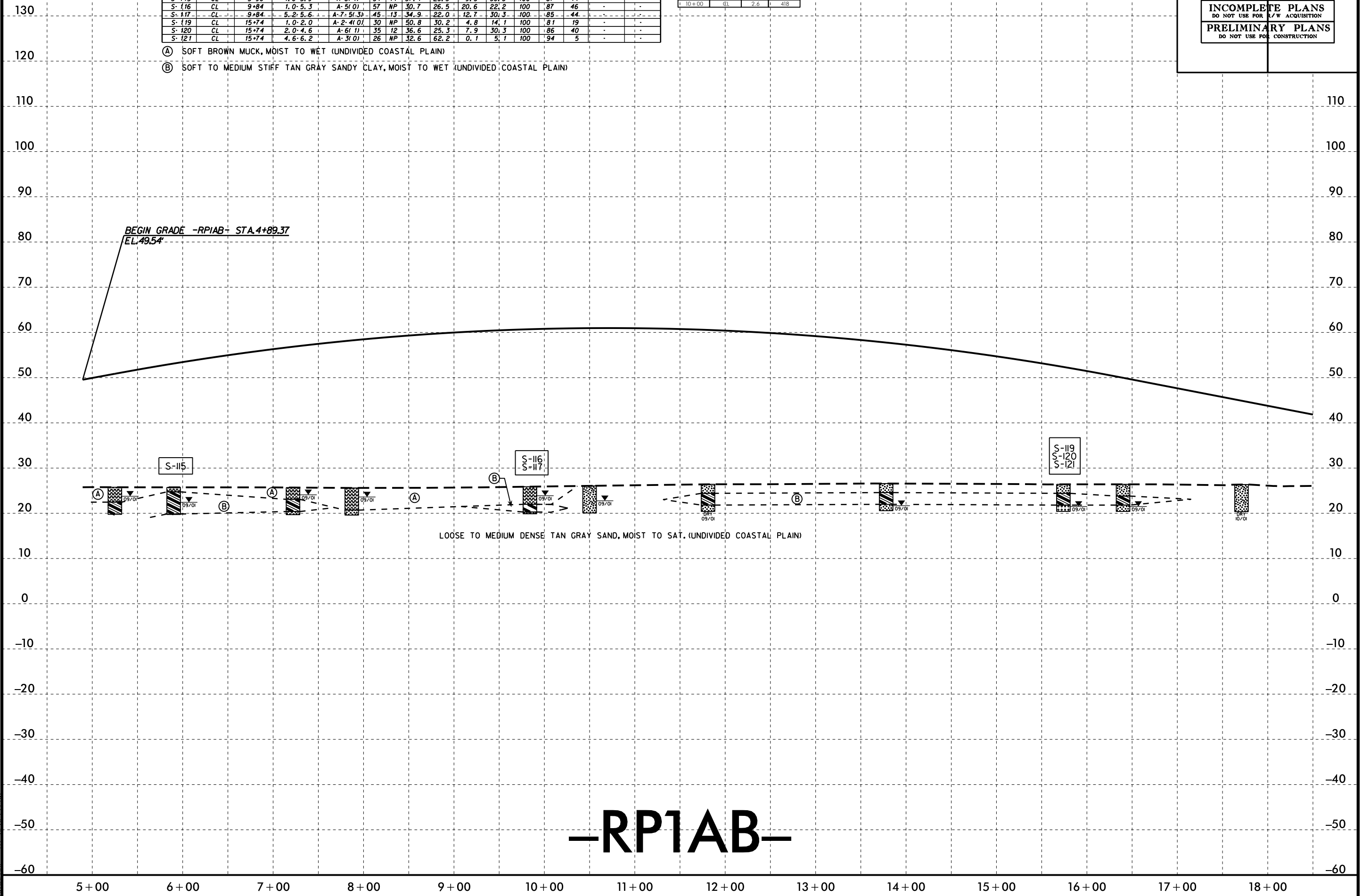
PROJECT REFERENCE NO.	SHEET NO.
R-1015	90
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							G SAND	F SAND	SILT	CLAY	10	200			
S-115	CL	5+90	1.0-5.9	A-6(1)	31	11	37.1	23.3	9.3	30.3	100	87	41	-	-
S-116	CL	9+84	1.0-5.3	A-5(0)	57	NP	30.7	26.5	20.6	22.2	100	87	46	-	-
S-117	CL	9+84	5.2-5.6	A-7-5(3)	45	13	34.9	22.0	12.7	30.3	100	85	44	-	-
S-119	CL	15+74	1.0-2.0	A-2-4(0)	30	NP	50.8	30.2	4.8	14.1	100	81	19	-	-
S-120	CL	15+74	2.0-4.6	A-6(1)	35	12	36.6	25.3	7.9	30.3	100	86	40	-	-
S-121	CL	15+74	4.6-6.2	A-3(0)	26	NP	32.6	62.2	0.1	5.1	100	94	5	-	-

**VANE SHEAR TESTS**

STATION	OFFSET	DEPTH	S (psf)
10+00	CL	1.0	501
10+00	CL	1.3	271
10+00	CL	2.0	251
10+00	CL	2.6	418

- (A) SOFT BROWN MUCK, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

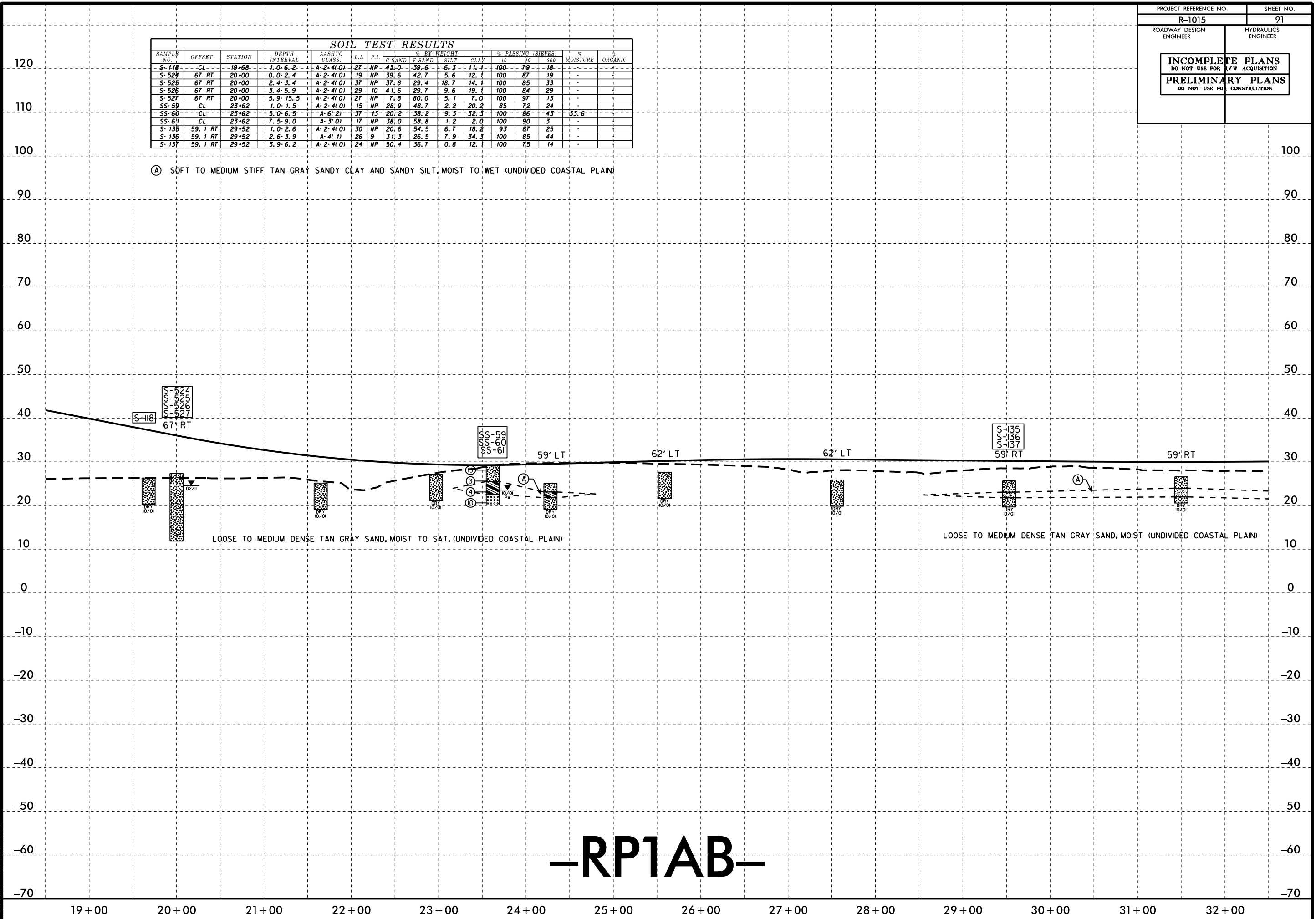


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-RPIAB-

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-118	CL	19+68	1.0-6.2	A-2-4(0)	27	NP	43.0	39.6	6.3	11.1	100	79	18	-	-
S-524	67 RT	20+00	0.0-2.4	A-2-4(0)	19	NP	39.6	42.7	5.6	12.1	100	87	19	-	-
S-525	67 RT	20+00	2.4-3.4	A-2-4(0)	37	NP	37.8	29.4	18.7	14.1	100	85	33	-	-
S-526	67 RT	20+00	3.4-5.9	A-2-4(0)	29	NP	41.6	29.7	9.6	19.1	100	84	29	-	-
S-527	67 RT	20+00	5.9-15.5	A-2-4(0)	27	NP	7.8	80.0	5.1	7.0	100	97	13	-	-
SS-59	CL	23+62	1.0-1.5	A-2-4(0)	15	NP	28.9	48.7	2.2	20.2	85	72	24	-	-
SS-60	CL	23+62	5.0-6.5	A-6(2)	37	TS	20.2	38.2	9.3	32.3	100	86	43	33.6	-
SS-61	CL	23+62	7.5-9.0	A-3(0)	17	NP	38.0	58.8	1.2	2.0	100	90	3	-	-
S-135	59.1 RT	29+52	1.0-2.6	A-2-4(0)	30	NP	20.6	54.5	6.7	18.2	93	87	25	-	-
S-136	59.1 RT	29+52	2.6-3.9	A-4(1)	26	9	31.3	26.5	7.9	34.3	100	85	44	-	-
S-137	59.1 RT	29+52	3.9-6.2	A-2-4(0)	24	NP	50.4	36.7	0.8	12.1	100	75	14	-	-

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

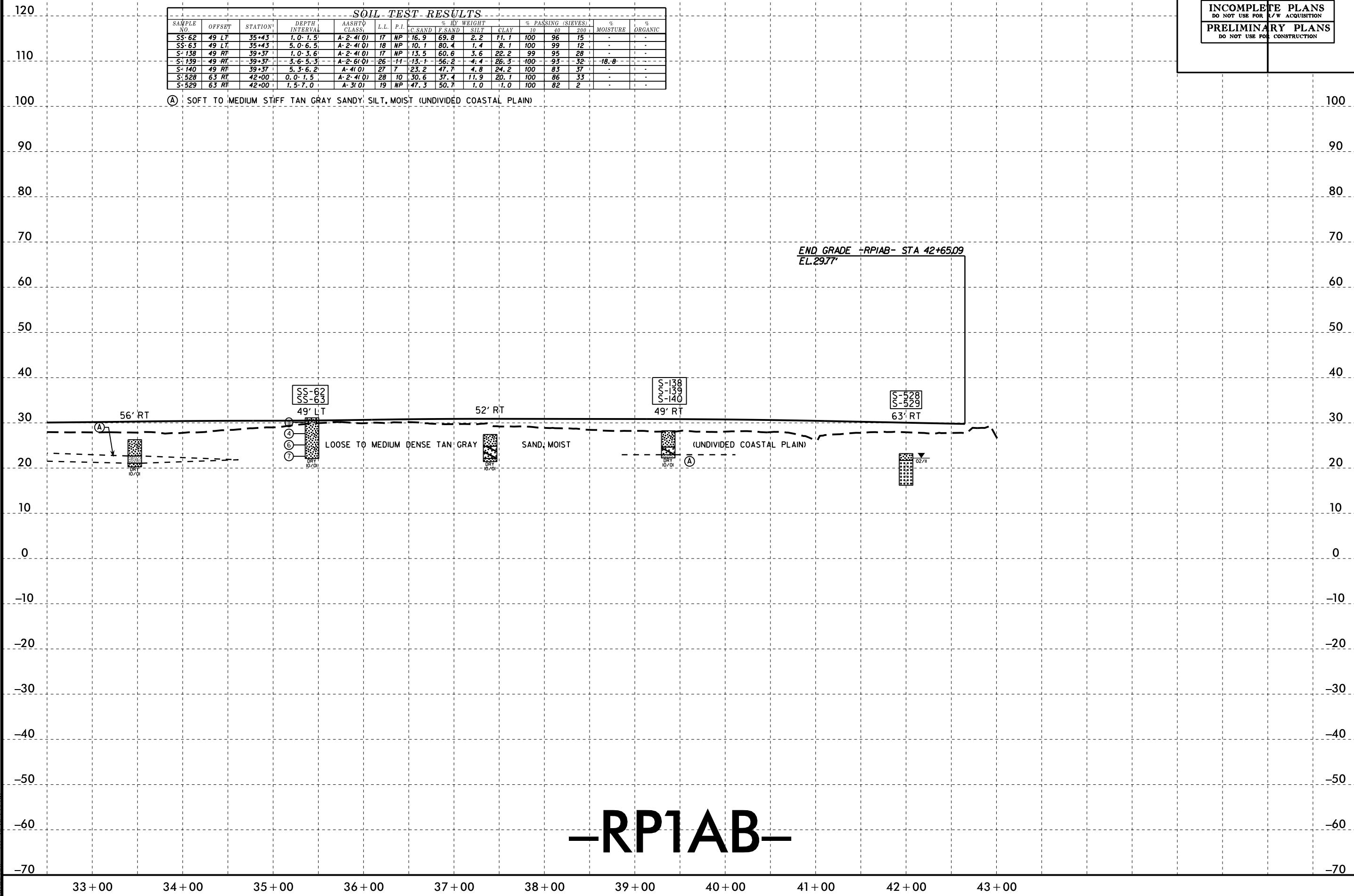


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-RP1AB-

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-62	49' LT	35+43	1.0'-1.5'	A-2-4(0)	17	NP	16.9	69.8	2.2	11.1	100	96	15	-	-
SS-63	49' LT	35+43	5.0'-6.5'	A-2-4(0)	18	NP	10.1	80.4	1.4	8.1	100	99	12	-	-
S-138	49' RT	39+37	1.0'-3.6'	A-2-4(0)	17	NP	13.5	60.6	3.6	22.2	99	95	28	-	-
S-139	49' RT	39+37	3.6'-5.3'	A-2-6(0)	26	11	56.2	4.4	26.3	100	93	32	18.8	-	-
S-140	49' RT	39+37	5.3'-6.2'	A-4(0)	27	7	23.2	47.7	4.8	24.2	100	83	37	-	-
S-528	63' RT	42+00	0.0'-1.5'	A-2-4(0)	28	10	30.6	37.4	11.9	20.1	100	86	33	-	-
S-529	63' RT	42+00	1.5'-7.0'	A-3(0)	19	NP	47.3	50.7	1.0	1.0	100	82	2	-	-

(A) SOFT TO MEDIUM STIFF TAN GRAY SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)

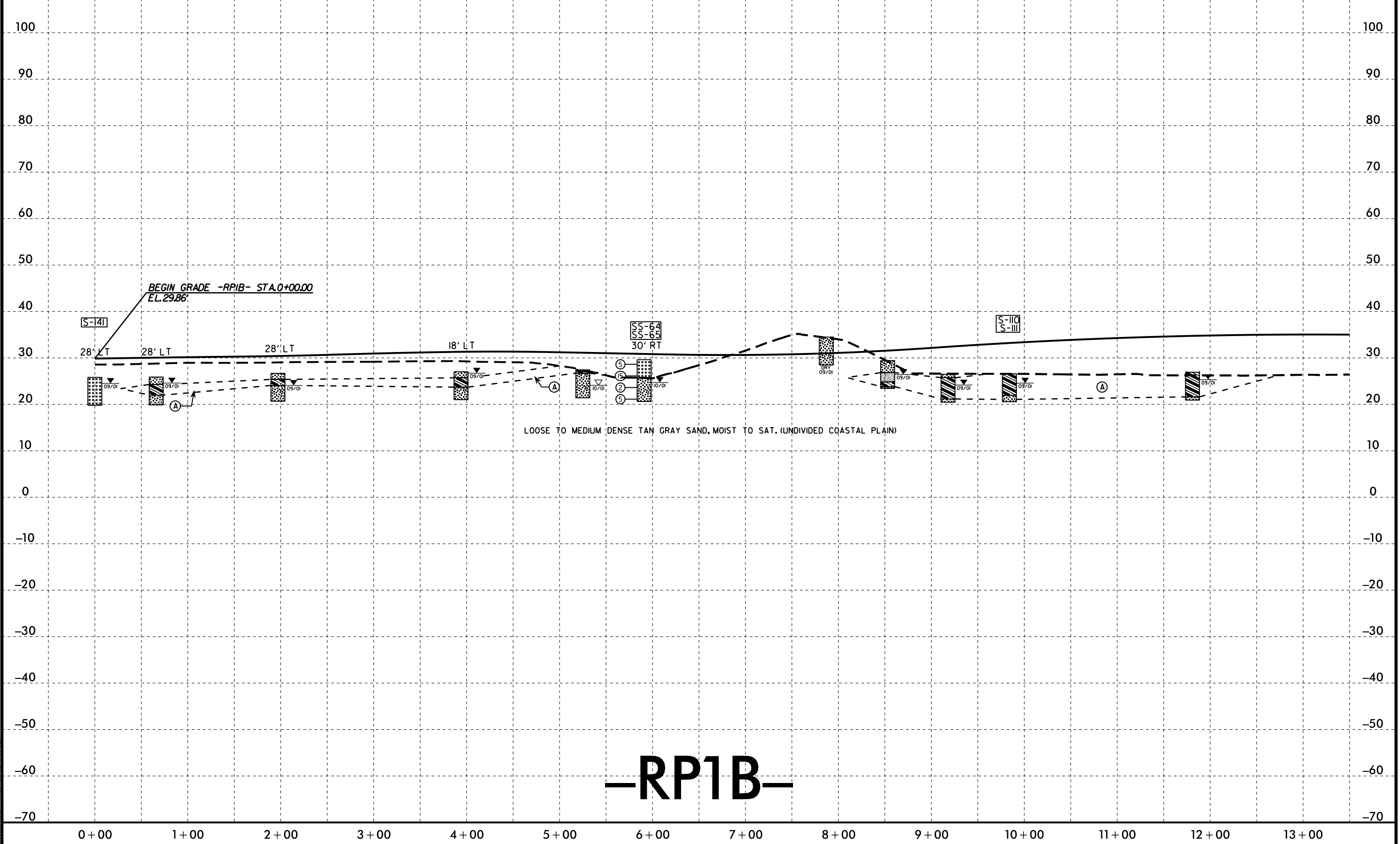


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	M SAND	SILT	CLAY	#10	#40	#200		
S-141	28' LT	0+00	1.0'-6.2	A-3(0)	16	NP	32.2	58.9	0.8	8.1	100	88	9	-	-
SS-64	30' RT	5+90	1.0'-1.5	A-3(0)	18	NP	28.9	64.7	0.3	6.1	98	87	17	-	-
SS-65	30' RT	5+90	5.0'-6.5	A-2-4(0)	16	NP	23.7	65.5	0.7	10.1	100	96	11	-	-
S-110	CL	9+84	1.0'-4.6	A-6(5)	38	14	19.8	27.1	12.7	40.4	100	88	154	-	-
S-111	CL	9+84	5.6'-6.2	A-2-4(0)	17	NP	54.3	30.4	1.1	14.1	100	85	16	-	-

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

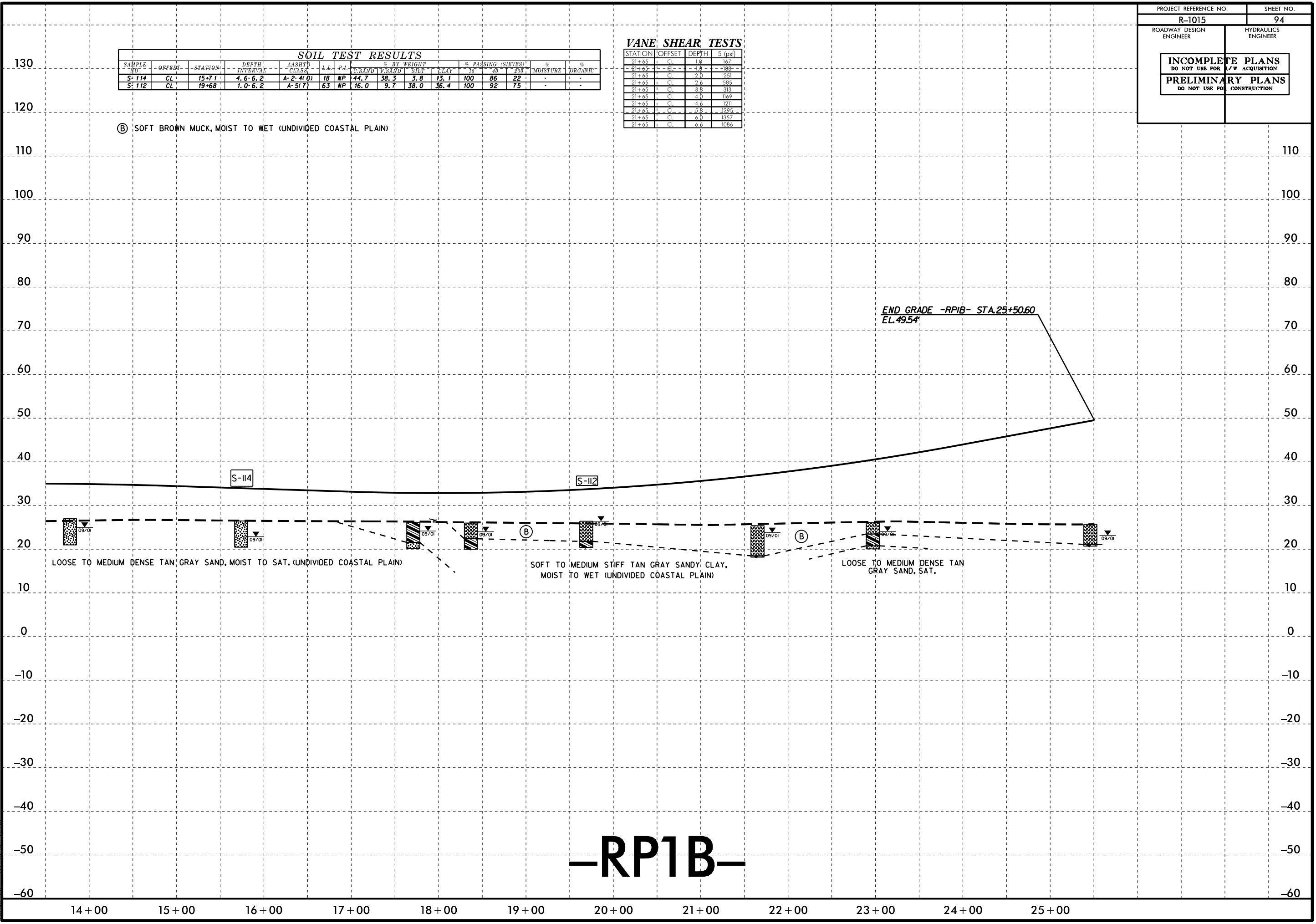


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C SAND	F SAND	SILT	CLAY	#10	#40	#200		
S-114	CL	15+71	4.6-6.2	A-2-4(0)	18	NP	44.7	38.3	3.8	13.1	100	86	22	-	-
S-112	CL	19+68	1.0-6.2	A-5(7)	63	NP	16.0	9.7	38.0	36.4	100	92	75	-	-

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
21+65	CL	1.0	167
21+65	CL	1.3	188
21+65	CL	2.0	251
21+65	CL	2.6	585
21+65	CL	3.5	313
21+65	CL	4.0	1169
21+65	CL	4.6	1211
21+65	CL	5.5	1295
21+65	CL	6.0	1357
21+65	CL	6.6	1086

ⓑ SOFT BROWN MUCK, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

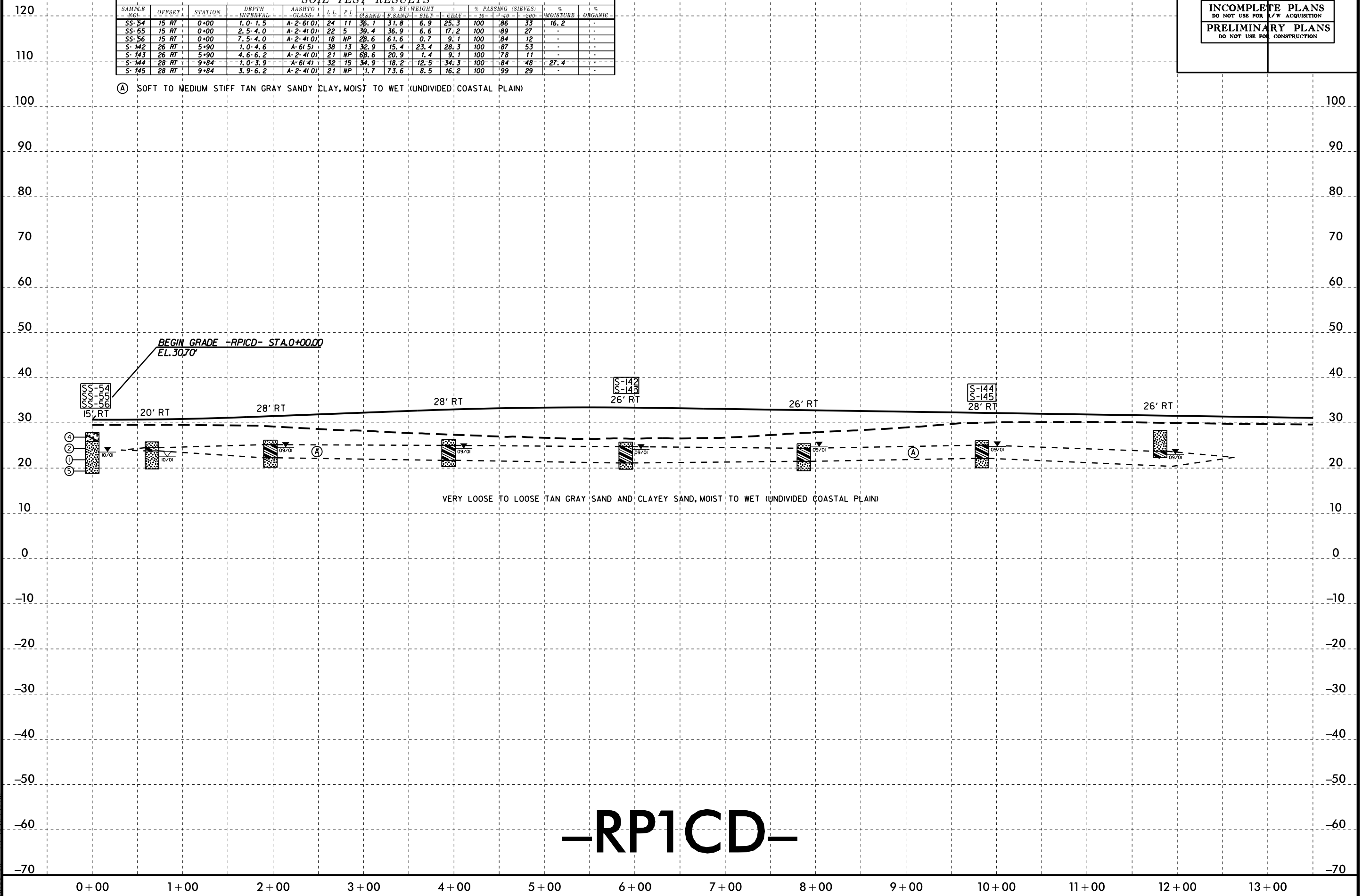


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							SAND	F SAND	SILT	CLAY	-10	-20	-200		
SS-54	15 RT	0+00	1.0-1.5	A-2-6(0)	24	11	36.1	31.8	6.9	25.3	100	86	33	16.2	-
SS-55	15 RT	0+00	2.5-4.0	A-2-4(0)	22	5	39.4	36.9	6.6	17.2	100	89	27	-	-
SS-56	15 RT	0+00	7.5-4.0	A-2-4(0)	18	NP	28.6	61.6	0.7	9.1	100	84	12	-	-
S-M2	26 RT	5+90	1.0-4.6	A-6(5)	38	13	32.9	15.4	23.4	28.3	100	87	53	-	-
S-M3	26 RT	5+90	4.6-6.2	A-2-4(0)	21	NP	68.6	20.9	1.4	9.1	100	78	11	-	-
S-M4	28 RT	9+84	1.0-3.9	A-6(4)	32	15	34.9	18.2	12.5	34.3	100	84	48	27.4	-
S-M5	28 RT	9+84	3.9-6.2	A-2-4(0)	21	NP	1.7	73.6	8.5	16.2	100	99	29	-	-

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

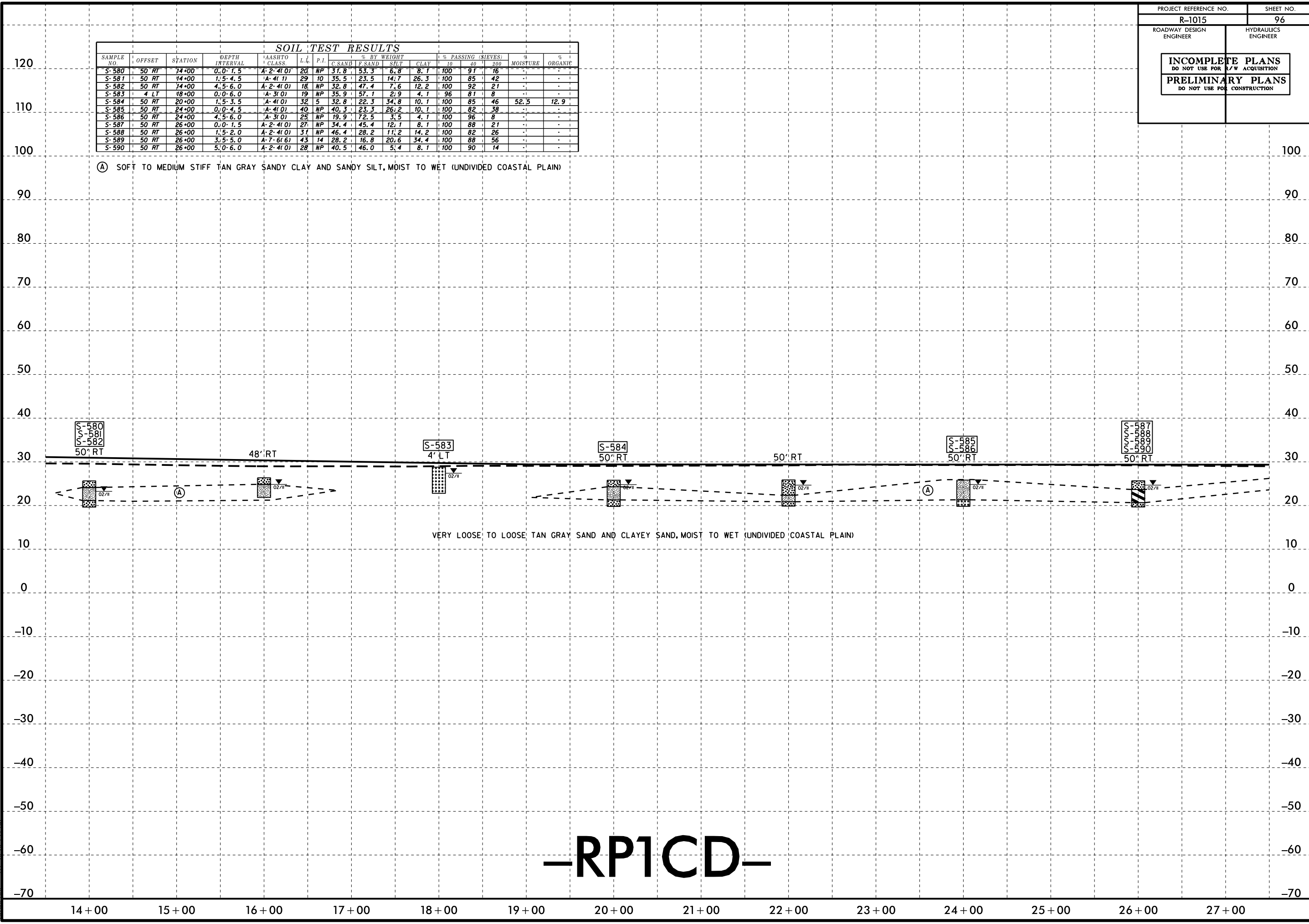


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	#10	#40	#200		
S-580	50 RT	14+00	0.0-1.5	A-2-4(0)	20	NP	31.8	53.3	6.8	8.1	100	91	16	-	-
S-581	50 RT	14+00	1.5-4.5	A-4(1)	29	NP	35.5	23.5	14.7	26.3	100	85	42	-	-
S-582	50 RT	14+00	4.5-6.0	A-2-4(0)	18	NP	32.8	47.4	7.6	12.2	100	92	21	-	-
S-583	4 LT	18+00	0.0-6.0	A-3(0)	19	NP	35.9	57.1	2.9	4.1	96	81	8	-	-
S-584	50 RT	20+00	1.5-3.5	A-4(0)	32	5	32.8	22.3	34.8	10.1	100	85	46	52.5	12.9
S-585	50 RT	24+00	0.0-4.5	A-4(0)	40	NP	40.3	23.3	26.2	10.1	100	82	38	-	-
S-586	50 RT	24+00	4.5-6.0	A-3(0)	25	NP	19.9	72.5	3.5	4.1	100	96	8	-	-
S-587	50 RT	26+00	0.0-1.5	A-2-4(0)	27	NP	34.4	45.4	12.1	8.1	100	88	21	-	-
S-588	50 RT	26+00	1.5-2.0	A-2-4(0)	31	NP	46.4	28.2	11.2	14.2	100	82	26	-	-
S-589	50 RT	26+00	3.5-5.0	A-7-6(6)	43	14	28.2	16.8	20.6	34.4	100	88	56	-	-
S-590	50 RT	26+00	5.0-6.0	A-2-4(0)	28	NP	40.5	46.0	5.4	8.1	100	90	14	-	-

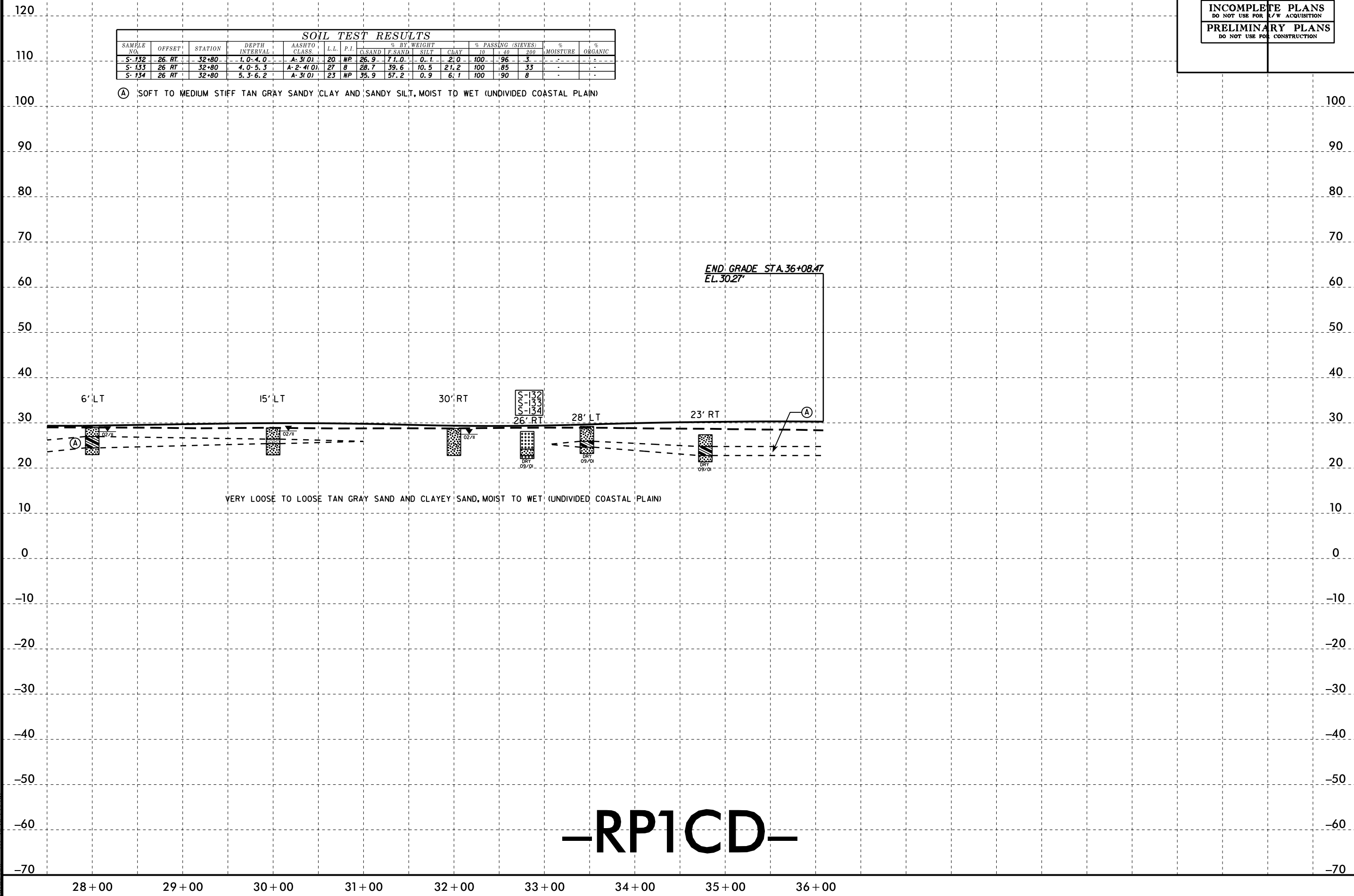
(A) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



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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
							SAND	F SAND	SILT	CLAY	10	20	300		
S-132	26 RT	32+80	1.0-4.0	A-3(0)	20	NP	26.9	71.0	0.1	2.0	100	96	3	-	-
S-133	26 RT	32+80	4.0-5.3	A-2(4(0))	27	8	28.7	39.6	10.5	21.2	100	85	33	-	-
S-134	26 RT	32+80	5.3-6.2	A-3(0)	23	NP	35.9	57.2	0.9	6.1	100	90	8	-	-

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



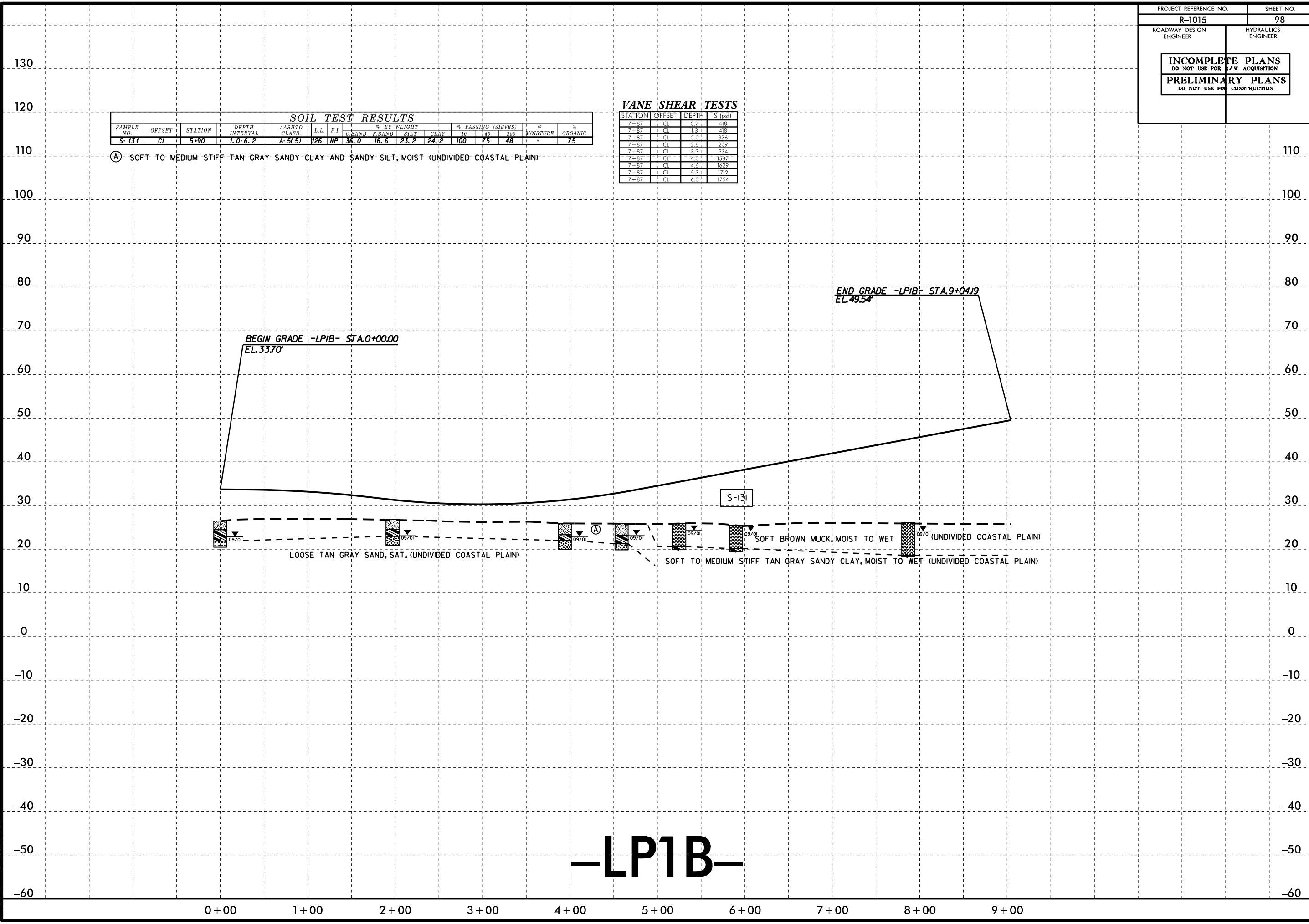
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							SAND	F. SAND	SILT	CLAY	10	40	200		
S-131	CL	5+90	1.0-6.2	A-5(5)	126	NP	36.0	16.6	23.2	24.2	100	75	48	-	75

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
7+87	CL	0.7'	418
7+87	CL	1.3'	418
7+87	CL	2.0'	376
7+87	CL	2.6'	209
7+87	CL	3.3'	334
7+87	CL	4.0'	1587
7+87	CL	4.6'	1629
7+87	CL	5.3'	1712
7+87	CL	6.0'	1754

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



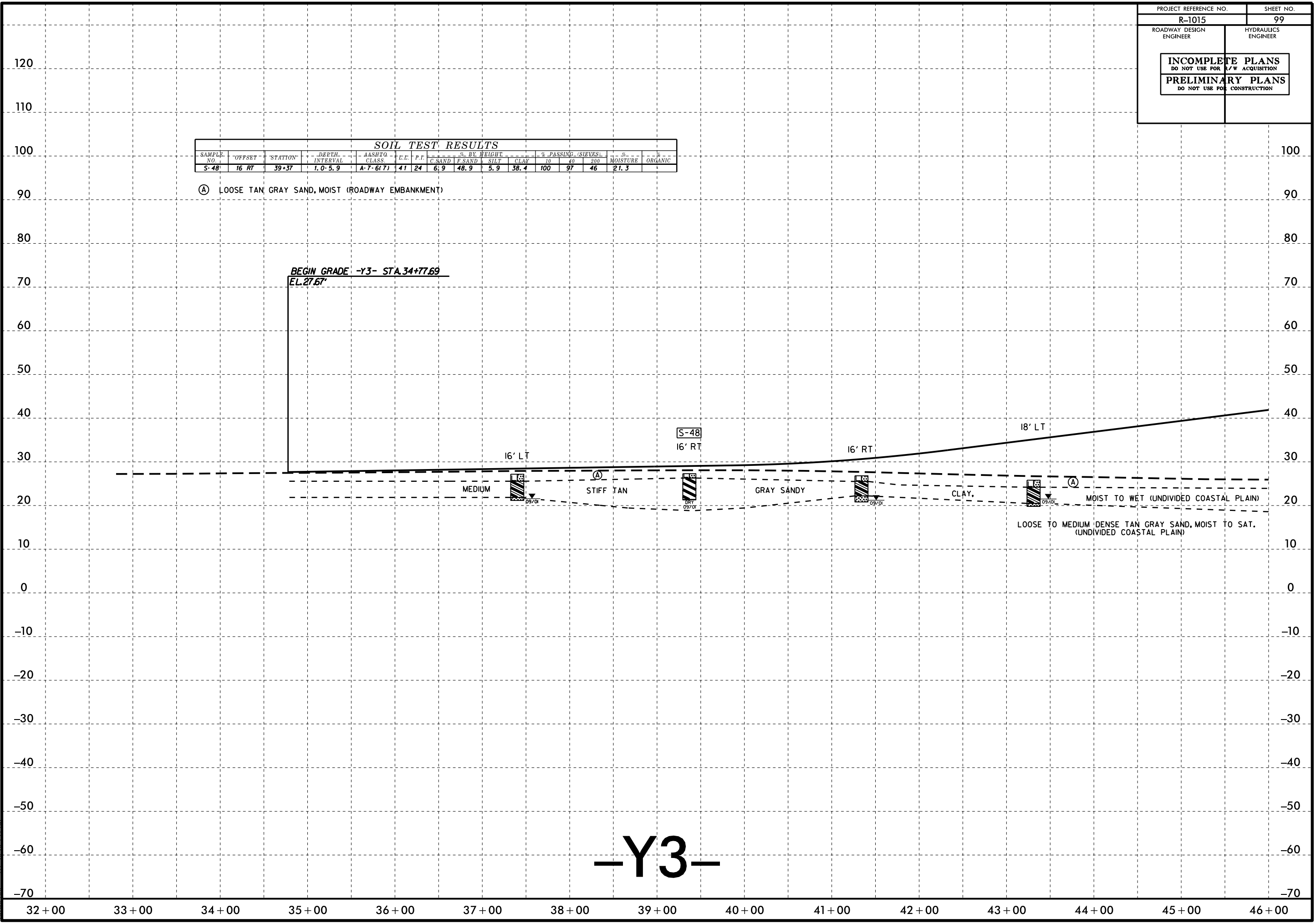
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
S-48	16 RT	39+37	1.0-5.9	A-7-6(7)	41	24	6.9	48.9	5.9	38.4	100	97	46	21.3	

(A) LOOSE TAN, GRAY SAND, MOIST (ROADWAY EMBANKMENT)

BEGIN GRADE -Y3- STA.34+77.69  
EL.27.67'

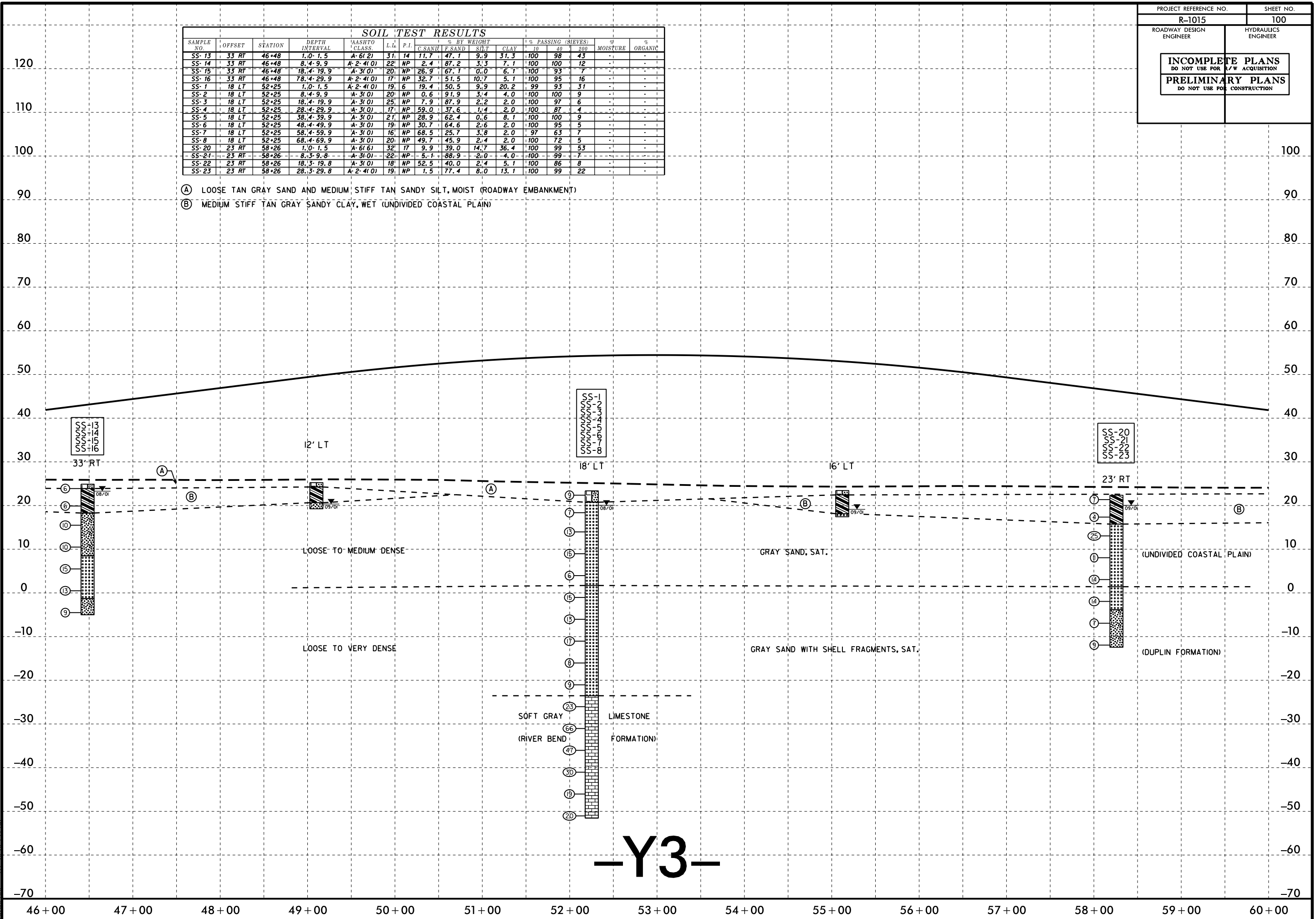


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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE %	ORGANIC %
							C SAND	F SAND	SILT	CLAY	10	40	200		
SS-13	33 RT	46+48	1.0-1.5	A-6(2)	31	14	11.7	47.1	9.9	31.3	100	98	43	-	-
SS-14	33 RT	46+48	8.4-9.9	A-2-4(0)	22	NP	2.4	87.2	3.3	7.1	100	100	12	-	-
SS-15	33 RT	46+48	18.4-19.9	A-3(0)	20	NP	26.9	67.1	0.0	6.1	100	93	7	-	-
SS-16	33 RT	46+48	78.4-29.9	A-2-4(0)	17	NP	32.7	51.5	10.7	5.1	100	95	16	-	-
SS-1	18 LT	52+25	1.0-1.5	A-2-4(0)	19	6	19.4	50.5	9.9	20.2	99	93	31	-	-
SS-2	18 LT	52+25	8.4-9.9	A-3(0)	20	NP	0.6	91.9	3.4	4.0	100	100	9	-	-
SS-3	18 LT	52+25	18.4-19.9	A-3(0)	25	NP	7.9	87.9	2.2	2.0	100	97	6	-	-
SS-4	18 LT	52+25	28.4-29.9	A-3(0)	17	NP	59.0	37.6	1.4	2.0	100	87	4	-	-
SS-5	18 LT	52+25	38.4-39.9	A-3(0)	21	NP	28.9	62.4	0.6	8.1	100	100	9	-	-
SS-6	18 LT	52+25	48.4-49.9	A-3(0)	19	NP	30.7	64.6	2.6	2.0	100	95	5	-	-
SS-7	18 LT	52+25	58.4-59.9	A-3(0)	16	NP	68.5	25.7	3.8	2.0	97	63	7	-	-
SS-8	18 LT	52+25	68.4-69.9	A-3(0)	20	NP	49.7	45.9	2.4	2.0	100	72	5	-	-
SS-20	23 RT	58+26	1.0-1.5	A-6(6)	32	17	9.9	39.0	14.7	36.4	100	99	53	-	-
SS-21	23 RT	58+26	8.3-9.8	A-3(0)	22	NP	5.1	88.9	2.0	4.0	100	99	7	-	-
SS-22	23 RT	58+26	18.3-19.8	A-3(0)	18	NP	52.5	40.0	2.4	5.1	100	86	8	-	-
SS-23	23 RT	58+26	28.3-29.8	A-2-4(0)	19	NP	1.5	77.4	8.0	13.1	100	99	22	-	-

- (A) LOOSE TAN GRAY SAND AND MEDIUM STIFF TAN SANDY SILT, MOIST (ROADWAY EMBANKMENT)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, WET (UNDIVIDED COASTAL PLAIN)



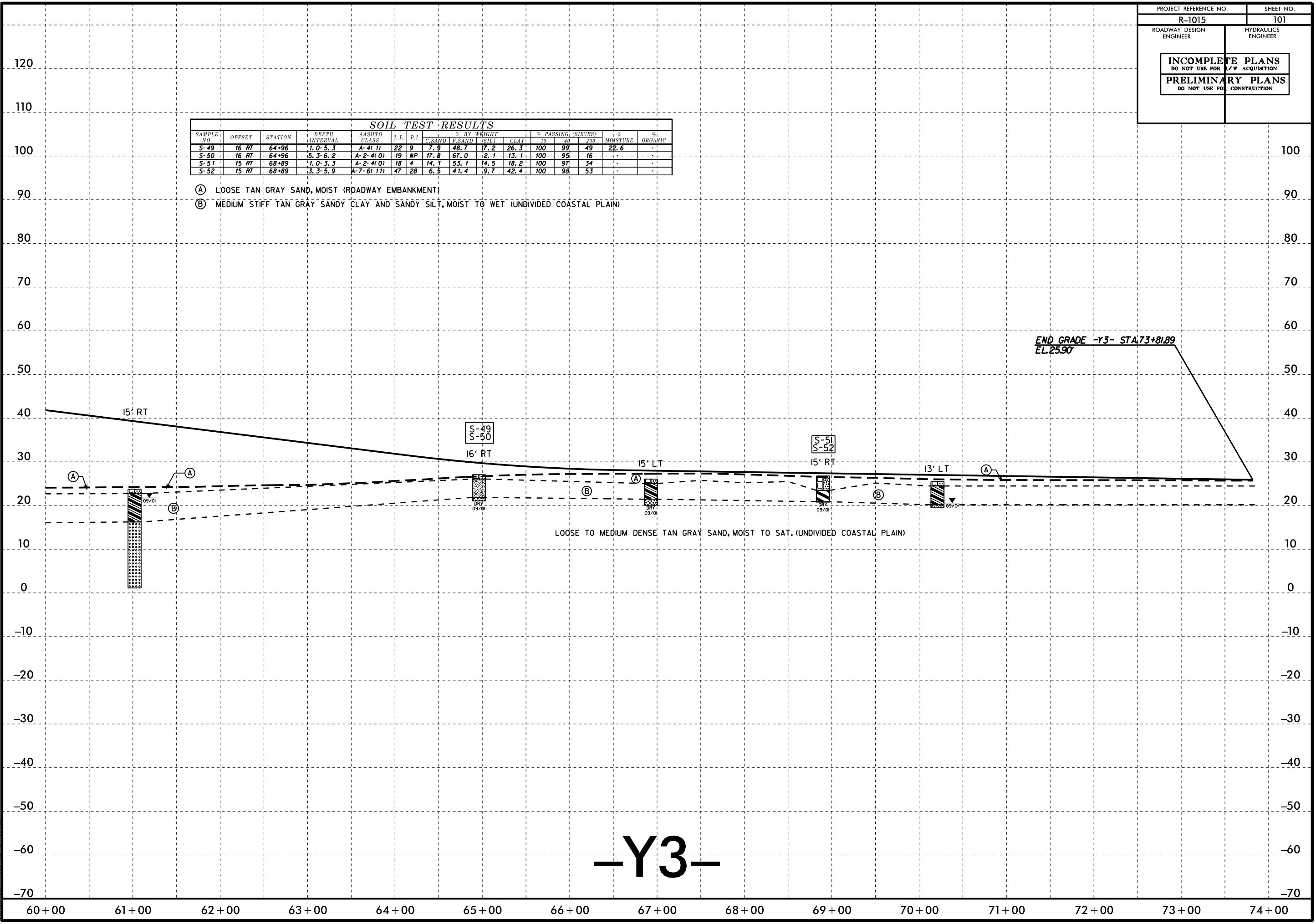
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-49	16 RT	64+96	1.0-5.3	A-4(1)	22	9	7.9	48.7	17.2	26.3	100	99	49	22.6	-
S-50	16 RT	64+96	5.3-6.2	A-2-4(0)	49	NP	17.8	67.0	2.1	13.1	100	95	16	-	-
S-51	15 RT	68+89	1.0-3.3	A-2-4(0)	18	4	14.7	53.1	14.5	18.2	100	97	34	-	-
S-52	15 RT	68+89	3.3-5.9	A-7-6(1)	47	28	6.5	41.4	9.7	42.4	100	98	53	-	-

- (A) LOOSE TAN GRAY SAND, MOIST (ROADWAY EMBANKMENT)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

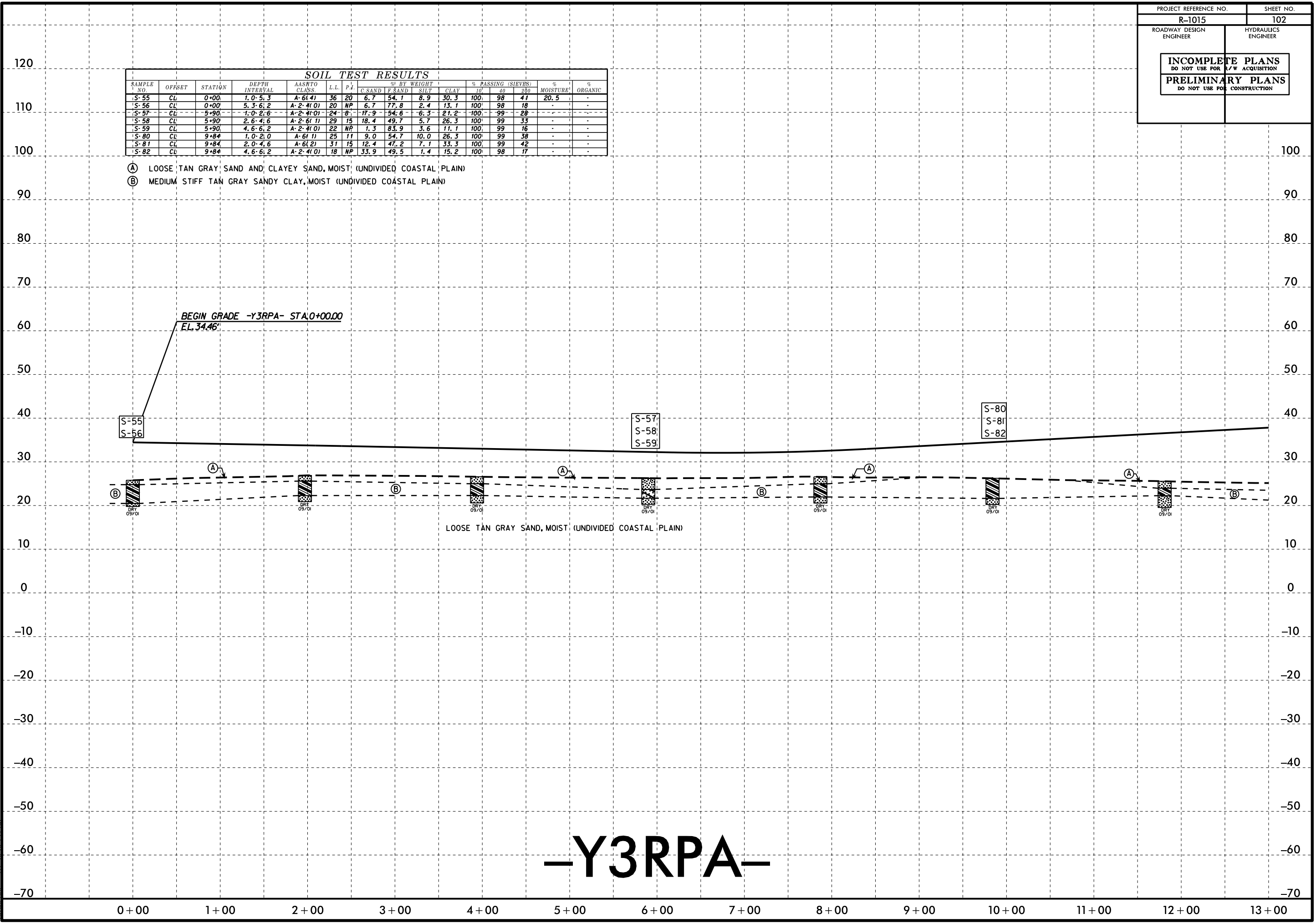


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-55	CL	0+00	1.0-5.3	A-6(4)	36	20	6.7	54.1	8.9	30.3	100	98	41	20.5	-
S-56	CL	0+00	5.3-6.2	A-2(4(0)	20	NP	6.7	77.8	2.4	13.1	100	98	18	-	-
S-57	CL	5+90	1.0-2.6	A-2(4(0)	24	8	17.9	54.6	6.3	21.2	100	99	28	-	-
S-58	CL	5+90	2.6-4.6	A-2(6(1)	29	15	18.4	49.7	5.7	26.3	100	99	33	-	-
S-59	CL	5+90	4.6-6.2	A-2(4(0)	22	NP	1.3	83.9	3.6	11.1	100	99	16	-	-
S-80	CL	9+84	1.0-2.0	A-6(1)	25	11	9.0	54.7	10.0	26.3	100	99	38	-	-
S-81	CL	9+84	2.0-4.6	A-6(2)	31	15	12.4	47.2	7.1	33.3	100	99	42	-	-
S-82	CL	9+84	4.6-6.2	A-2(4(0)	18	NP	33.9	49.5	1.4	15.2	100	98	17	-	-

- (A) LOOSE TAN GRAY SAND AND CLAYEY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

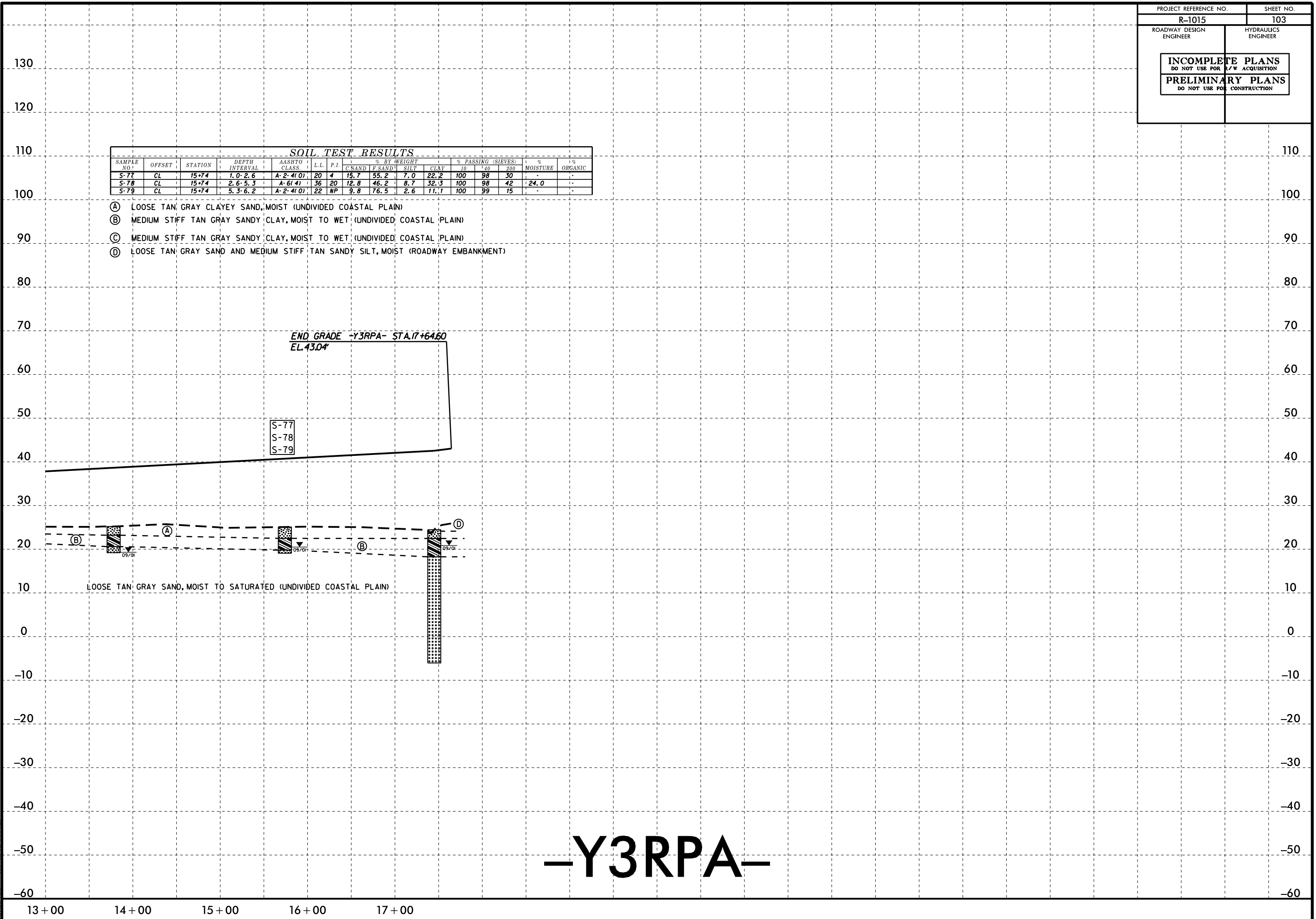


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT	10	40	200			
S-77	CL	15+74	1.0-2.6	A-2-4(0)	20	4	15.7	55.2	7.0	22.2	100	98	30	-	-
S-78	CL	15+74	2.6-5.3	A-6(4)	36	20	12.8	46.2	8.7	32.3	100	98	42	24.0	-
S-79	CL	15+74	5.3-6.2	A-2-4(0)	22	NP	9.8	76.5	2.6	11.1	100	99	15	-	-

- (A) LOOSE TAN GRAY CLAYEY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (D) LOOSE TAN GRAY SAND AND MEDIUM STIFF TAN SANDY SILT, MOIST (ROADWAY EMBANKMENT)

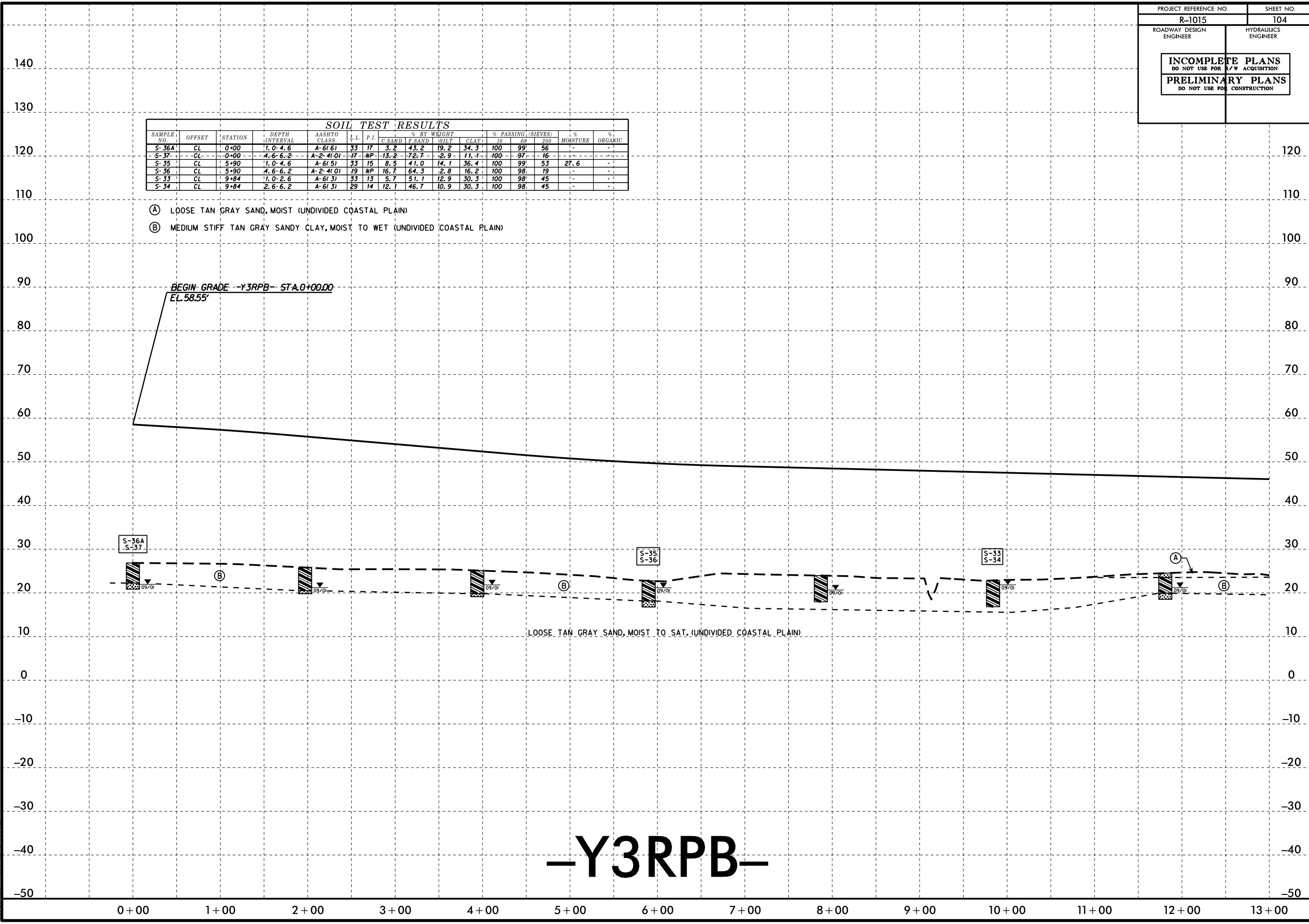


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-Y3RPA-

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	SOIL TEST RESULTS				% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC
				AASHTO CLASS	L.L.	P.I.	C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-36A	CL	0+00	1.0-4.6	A-6(6)	33	17	3.2	43.2	19.2	34.3	100	99	56	-	-
S-37	CL	0+00	4.6-6.2	A-2(4(0)	47	NP	13.2	72.7	2.9	11.1	100	97	16	-	-
S-35	CL	5+90	1.0-4.6	A-6(5)	33	15	8.5	41.0	14.1	36.4	100	99	53	27.6	-
S-36	CL	5+90	4.6-6.2	A-2(4(0)	19	NP	16.7	64.3	2.8	16.2	100	98	19	-	-
S-33	CL	9+84	1.0-2.6	A-6(3)	33	13	5.7	51.1	12.9	30.3	100	98	45	-	-
S-34	CL	9+84	2.6-6.2	A-6(3)	29	14	12.1	46.7	10.9	30.3	100	98	45	-	-

- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

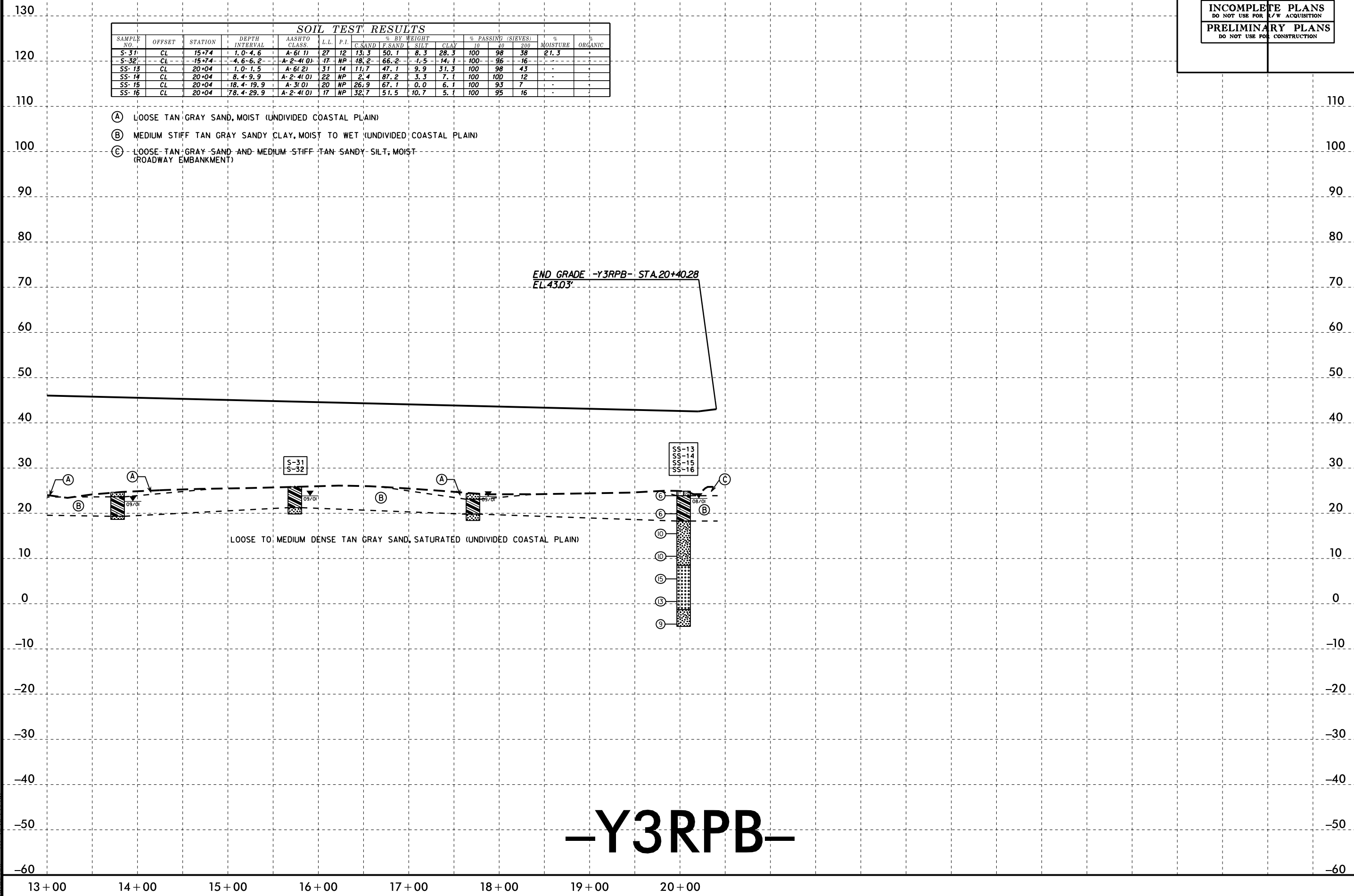


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
S-31	CL	15+74	1.0-4.6	A-6(1)	27	12	13.3	50.1	8.3	28.3	100	98	38	21.3	-
S-32	CL	15+74	4.6-6.2	A-2-4(0)	17	NP	18.2	66.2	1.5	14.1	100	96	16	-	-
SS-13	CL	20+04	1.0-1.5	A-6(2)	31	14	11.7	47.1	9.9	31.3	100	98	43	-	-
SS-14	CL	20+04	8.4-9.9	A-2-4(0)	22	NP	2.4	87.2	3.3	7.1	100	100	12	-	-
SS-15	CL	20+04	18.4-19.9	A-3(0)	20	NP	26.9	67.1	0.0	6.1	100	93	7	-	-
SS-16	CL	20+04	17.4-29.9	A-2-4(0)	17	NP	32.7	51.5	10.7	5.1	100	95	16	-	-

- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN GRAY SAND AND MEDIUM STIFF TAN SANDY SILT, MOIST (ROADWAY EMBANKMENT)



-Y3RPB-

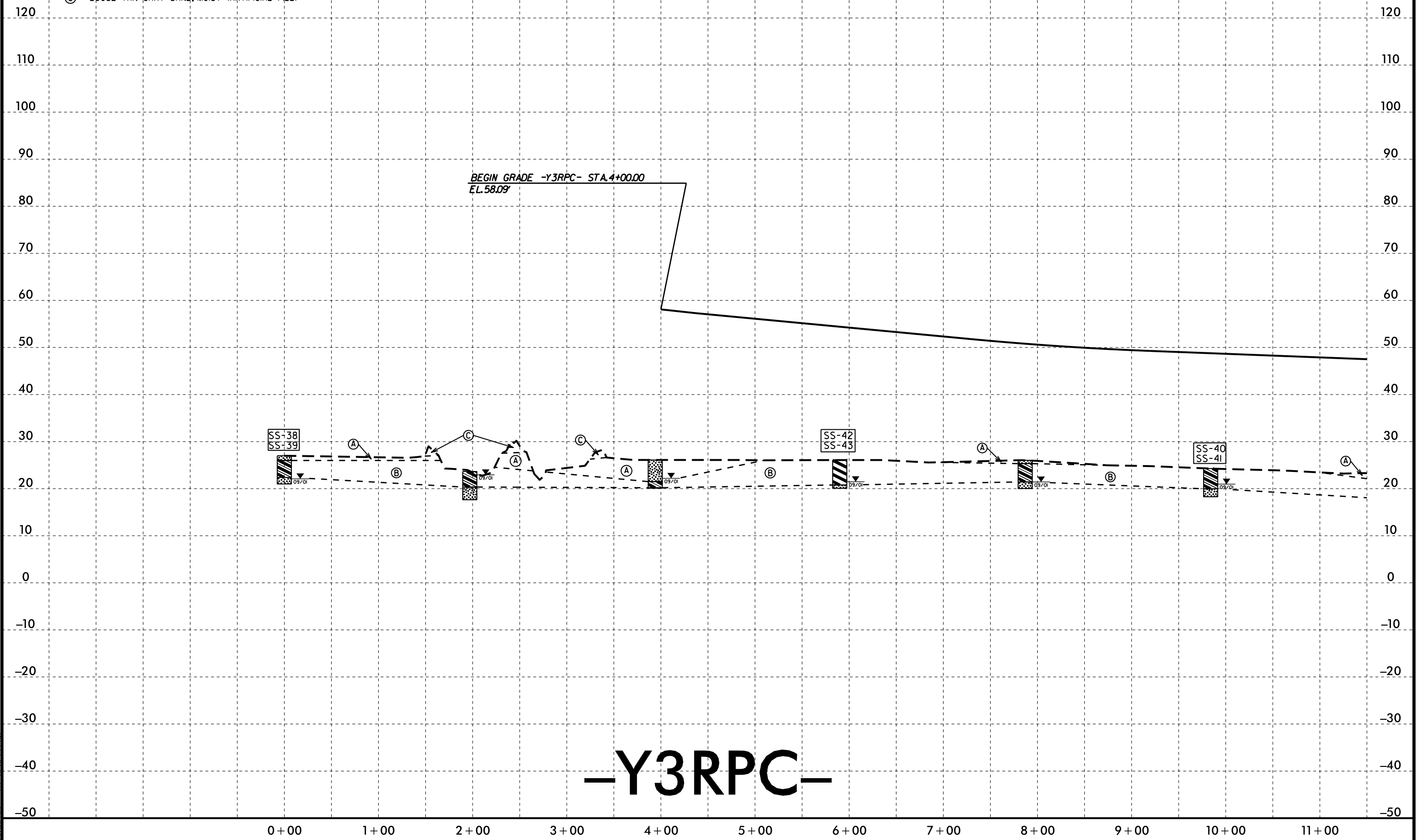
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	106
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							G SAND	F SAND	SILT	CLAY	10	40	200		
S-38	CL	0+00	1.0-4.6	A-6(4)	34	17	5.7	51.9	10.7	32.3	100	97	44	20.4	-
S-39	CL	0+00	4.6-6.2	A-2-4(0)	24	8	15.8	64.2	3.8	16.2	100	97	21	-	-
S-42	CL	5+90	1.0-5.3	A-7-6(1.1)	41	23	6.1	34.5	19.0	40.4	100	99	61	-	-
S-43	CL	5+90	5.3-6.2	A-2-4(0)	20	NP	10.1	71.9	3.8	14.1	100	98	19	-	-
S-40	CL	9+84	1.0-4.3	A-6(5)	34	17	5.3	47.3	11.7	36.4	100	99	49	25.9	-
S-41	CL	9+84	4.3-6.2	A-2-4(0)	21	4	14.8	65.5	1.5	18.2	100	98	21	-	-

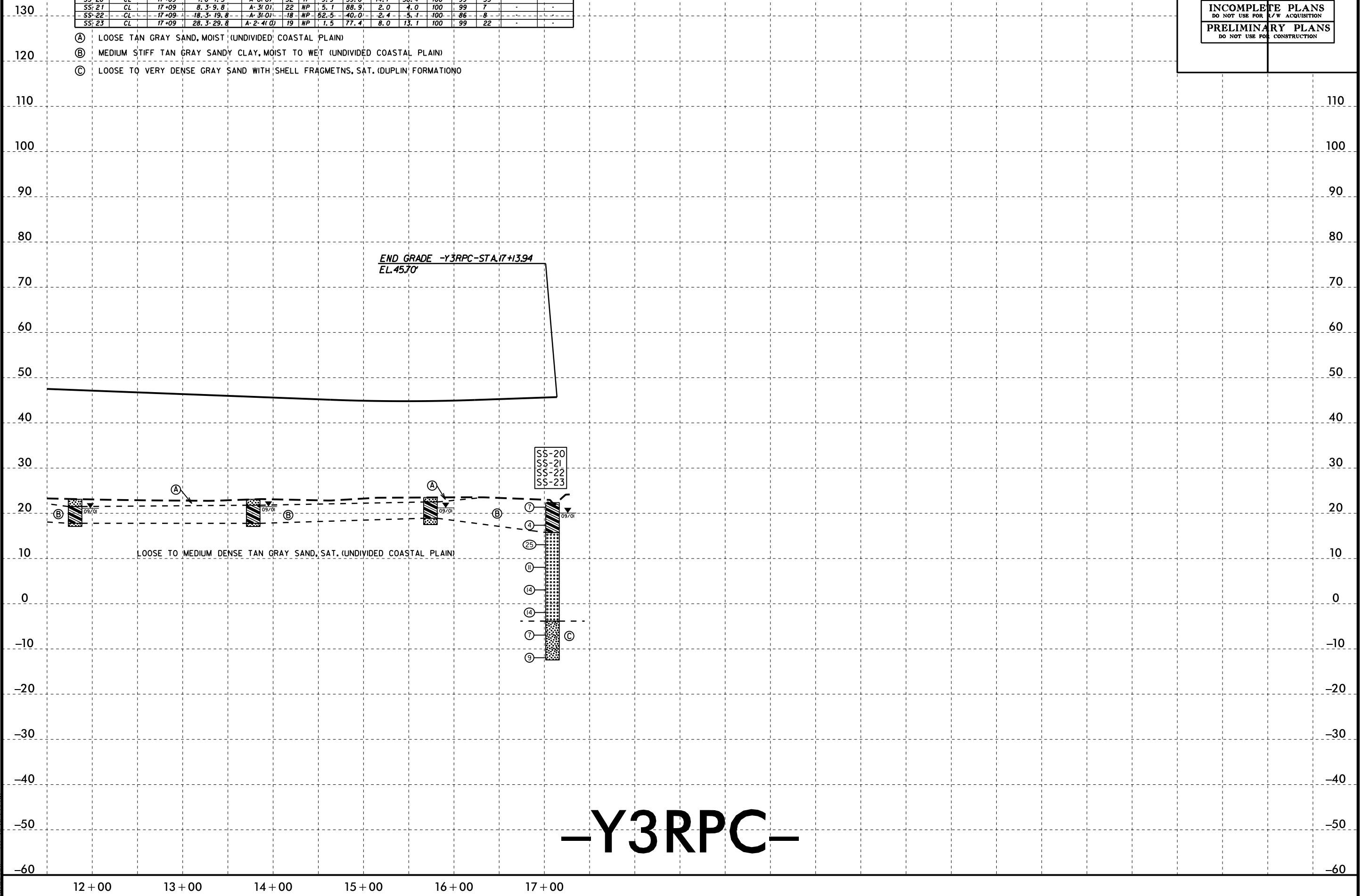
- (A) LOOSE TAN GRAY SAND, MOIST TO SATURATED (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN GRAY SAND, MOIST (ARTIFICIAL FILL)



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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
							G SAND	F SAND	SILT	CLAY	10	200		
SS-20	CL	17+09	1.0-1.5	A-6(6)	32	17	9.9	39.0	14.7	36.4	100	99	53	-
SS-21	CL	17+09	8.3-9.8	A-3(0)	22	NP	5.1	88.9	2.0	4.0	100	99	7	-
SS-22	CL	17+09	18.3-19.8	A-3(0)	18	NP	52.5	40.0	2.4	5.1	100	86	8	-
SS-23	CL	17+09	28.3-29.8	A-2-4(0)	19	NP	1.5	77.4	8.0	13.1	100	99	22	-

- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED) COASTAL PLAIN
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TO VERY DENSE GRAY SAND WITH SHELL FRAGMENTNS, SAT. (DUPLIN) FORMATION

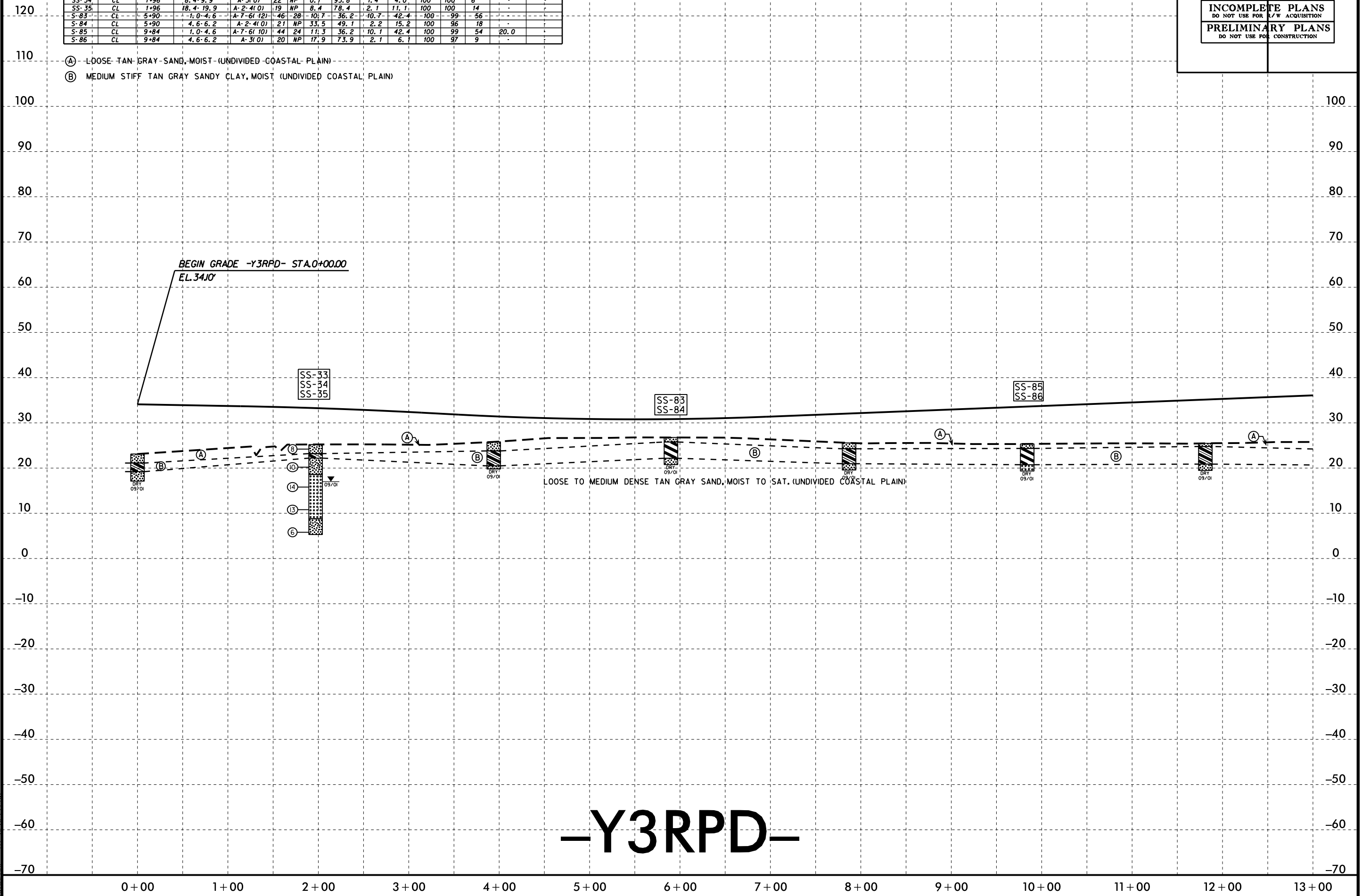


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-33	CL	1+96	1.0-1.5	A-2(10)	19	5	19.2	49.5	9.1	22.2	100	98	34	-	-
SS-34	CL	1+96	8.4-9.9	A-3(0)	22	NP	0.7	93.8	1.4	4.0	100	100	6	-	-
SS-35	CL	1+96	18.4-19.9	A-2(10)	19	NP	8.4	78.4	2.1	11.1	100	100	14	-	-
S-83	CL	5+90	1.0-4.6	A-7(612)	46	28	10.7	36.2	10.7	42.4	100	99	56	-	-
S-84	CL	5+90	4.6-6.2	A-2(10)	21	NP	33.5	49.1	2.2	15.2	100	96	18	-	-
S-85	CL	9+84	1.0-4.6	A-7(610)	44	24	11.3	36.2	10.1	42.4	100	99	54	20.0	-
S-86	CL	9+84	4.6-6.2	A-3(0)	20	NP	17.9	73.9	2.1	6.1	100	97	9	-	-

- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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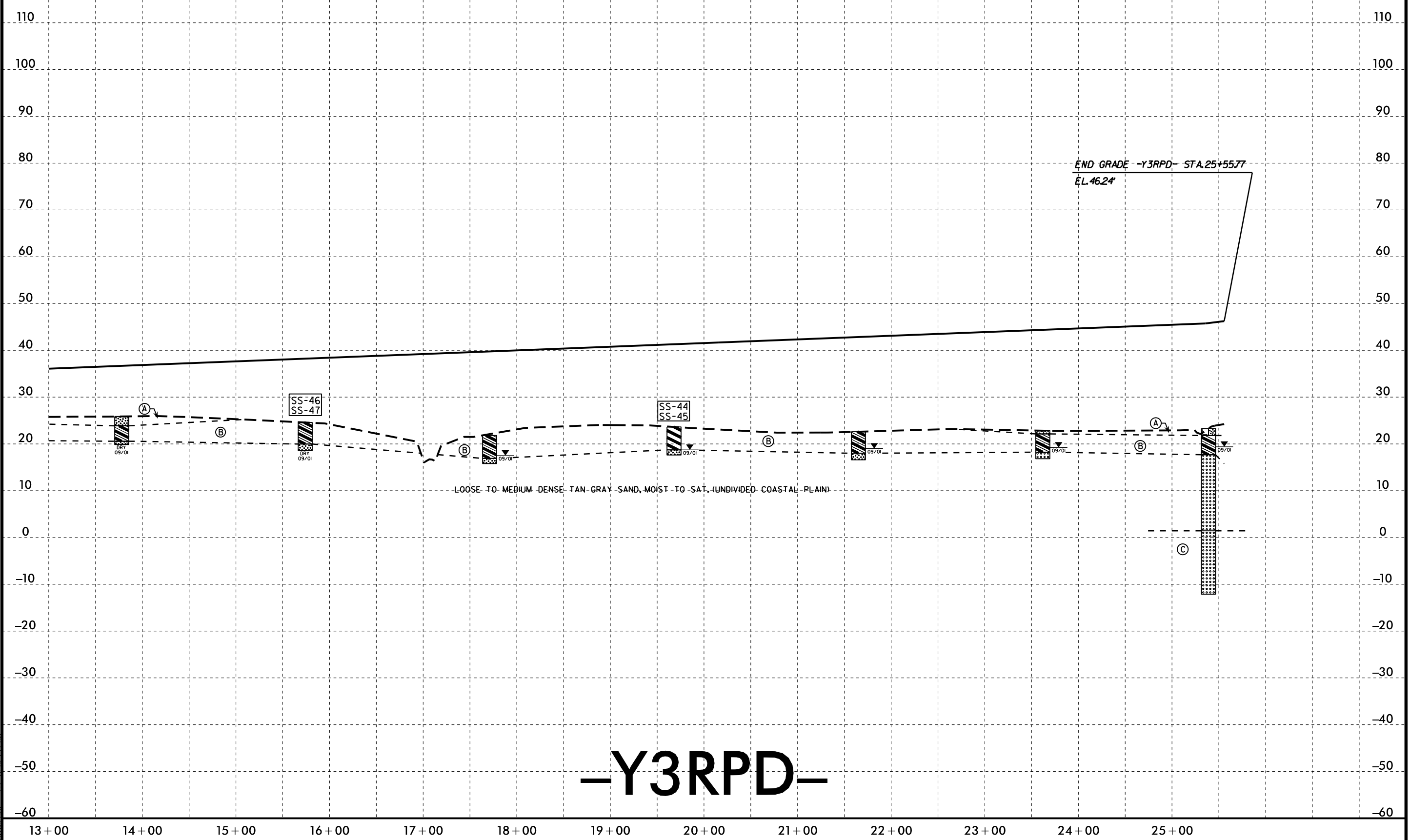


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	10	40	200		
S-46	CL	15+74	1.0-4.6	A-6(4)	33	17	14.9	41.0	11.7	32.3	100	98	45	-	-
S-47	CL	15+74	4.6-6.2	A-2-4(0)	19	NP	16.8	72.7	1.4	9.1	100	95	11	-	-
S-44	CL	19+68	1.0-4.9	A-7-6(18)	50	26	3.0	27.3	15.2	54.5	100	99	71	35.7	-
S-45	CL	19+68	4.9-6.2	A-2-4(0)	19	NP	31.6	52.2	2.0	14.1	100	94	17	-	-

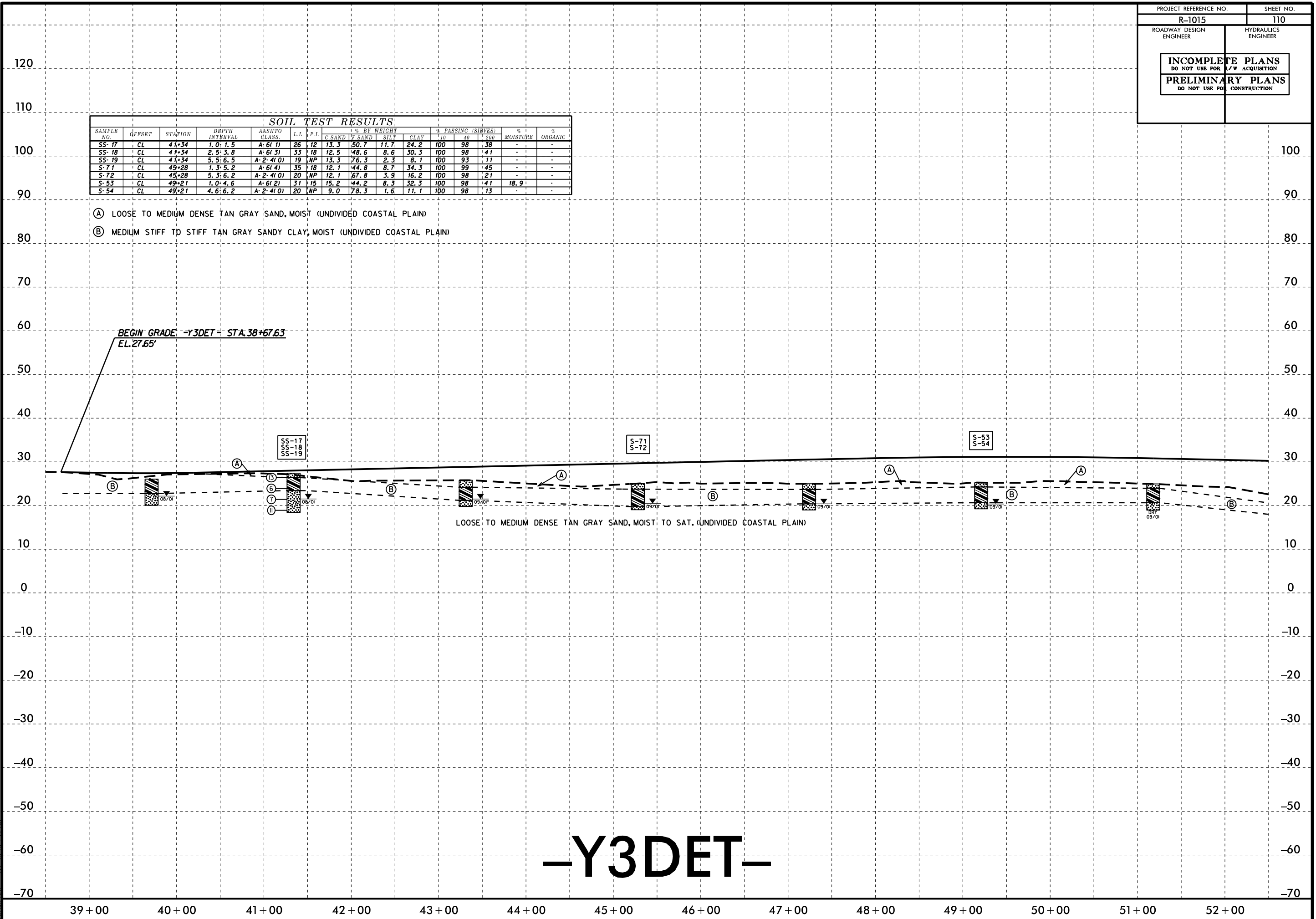
- (A) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TO VERY DENSE GRAY SAND WITH SHELL FRAGMENTS, SAT. (DUPLIN FORMATION)

PROJECT REFERENCE NO. R-1015	SHEET NO. 109
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIBVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	SILT	CLAY	#10	#40	#200		
SS-17	CL	41+34	1.0' 1.5'	A-6(1)	26	12	13.3	50.7	11.7	24.2	100	98	38	-	-
SS-18	CL	41+34	2.5' 3.8'	A-6(3)	33	18	12.5	48.6	8.6	30.3	100	98	41	-	-
SS-19	CL	41+34	5.5' 6.5'	A-2(10)	19	NP	13.3	76.3	2.3	8.1	100	93	11	-	-
S-71	CL	45+28	1.3' 5.2'	A-6(4)	35	18	12.1	44.8	8.7	34.3	100	99	45	-	-
S-72	CL	45+28	5.3' 6.2'	A-2(10)	20	NP	12.1	67.8	3.9	16.2	100	98	21	-	-
S-53	CL	49+21	1.0' 4.6'	A-6(2)	31	15	15.2	44.2	8.3	32.3	100	98	41	18.9	-
S-54	CL	49+21	4.6' 6.2'	A-2(10)	20	NP	9.0	78.3	1.6	11.1	100	98	13	-	-

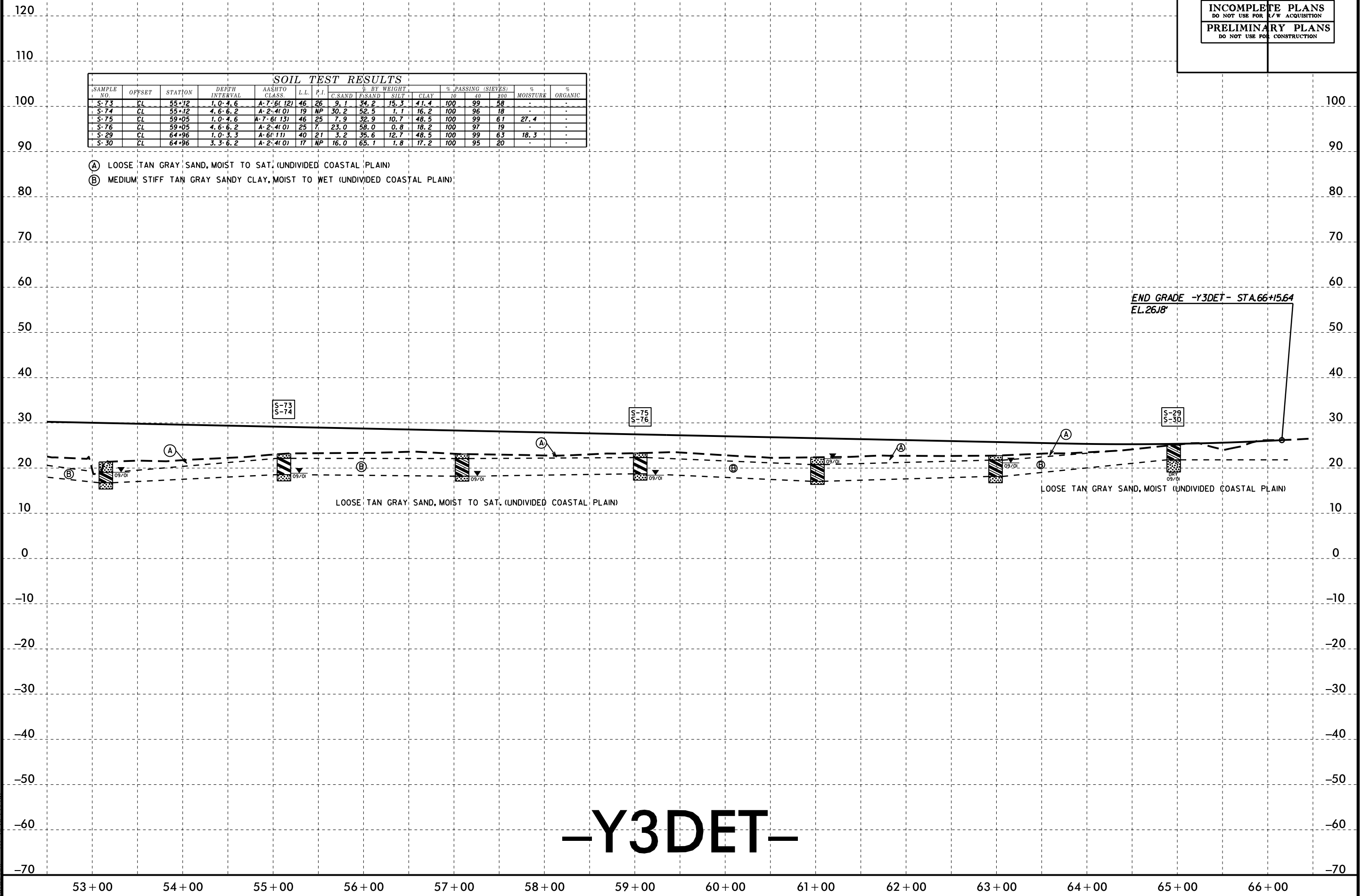
- (A) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



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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-73	CL	55+12	1.0-4.6	A-7-6(12)	46	26	9.1	34.2	15.3	41.4	100	99	58	-	-
S-74	CL	55+12	4.6-6.2	A-2-4(0)	19	NP	30.2	52.5	1.7	16.2	100	96	18	-	-
S-75	CL	59+05	1.0-4.6	A-7-6(13)	46	25	7.9	32.9	10.7	48.5	100	99	61	27.4	-
S-76	CL	59+05	4.6-6.2	A-2-4(0)	25	7	23.0	58.0	0.8	18.2	100	97	19	-	-
S-29	CL	64+96	1.0-3.3	A-6-1(1)	40	21	3.2	35.6	12.7	48.5	100	99	63	18.3	-
S-30	CL	64+96	3.3-6.2	A-2-4(0)	17	NP	16.0	65.1	1.8	17.2	100	95	20	-	-

- (A) LOOSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

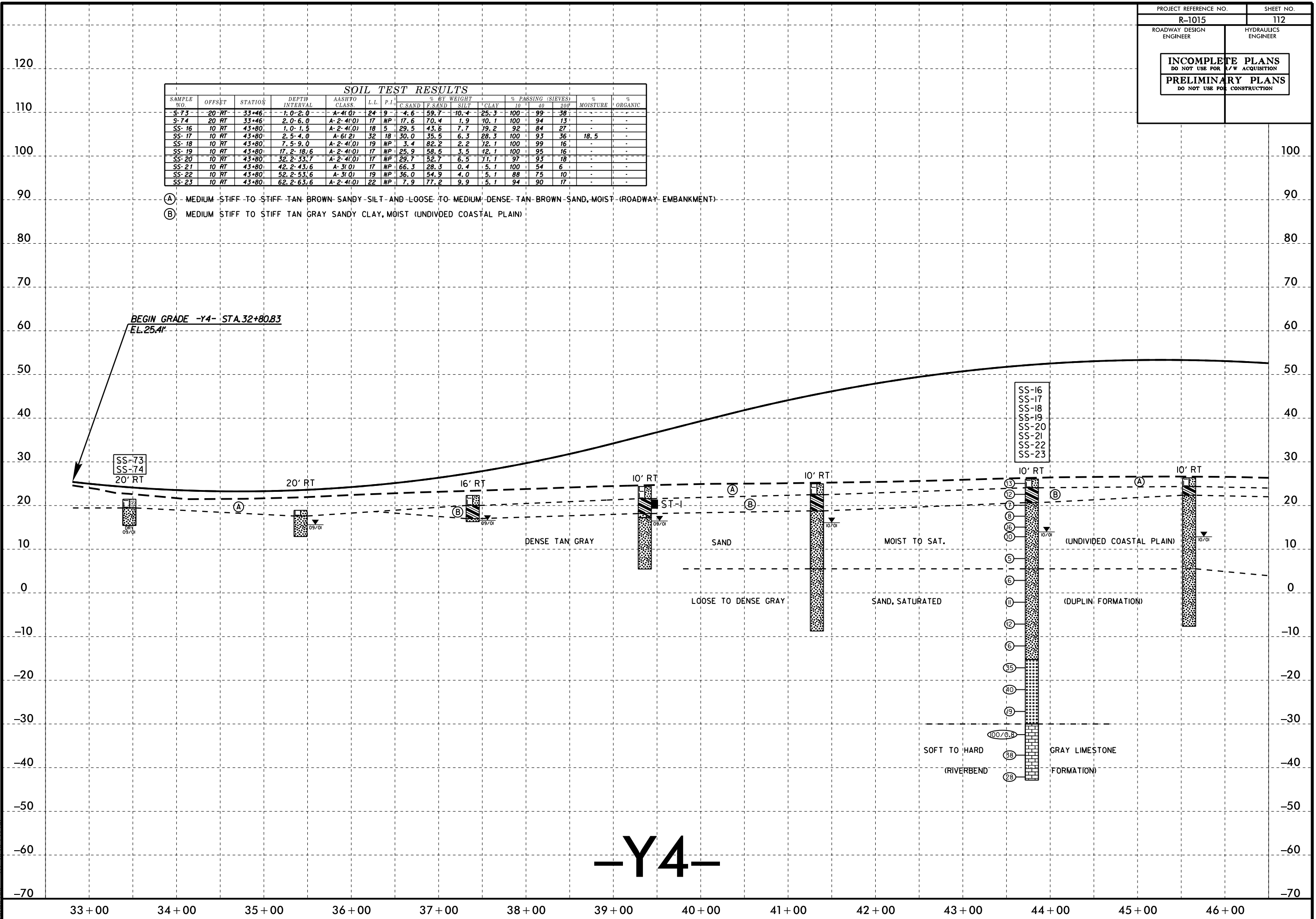


-Y3DET-

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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		
SS-73	20' RT	33+46	1.0-2.0	A-4(0)	24	9	4.6	59.7	10.4	25.3	100	99	38	-	-
SS-74	20' RT	33+46	2.0-6.0	A-2(4(0))	17	NP	17.6	70.4	1.9	10.1	100	94	13	-	-
SS-16	10' RT	43+80	1.0-1.5	A-2(4(0))	18	5	29.5	43.6	7.7	19.2	92	84	27	-	-
SS-17	10' RT	43+80	2.5-4.0	A-6(2)	32	18	30.0	35.5	6.3	28.3	100	93	36	18.5	-
SS-18	10' RT	43+80	7.5-9.0	A-2(4(0))	19	NP	3.4	82.2	2.2	12.1	100	99	16	-	-
SS-19	10' RT	43+80	17.2-18.6	A-2(4(0))	17	NP	25.9	58.5	3.5	12.1	100	95	16	-	-
SS-20	10' RT	43+80	32.2-33.7	A-2(4(0))	17	NP	29.7	52.7	6.5	11.1	97	93	18	-	-
SS-21	10' RT	43+80	42.2-43.6	A-3(0)	17	NP	66.3	28.3	0.4	5.1	100	54	6	-	-
SS-22	10' RT	43+80	52.2-53.6	A-3(0)	19	NP	36.0	54.9	4.0	5.1	88	75	10	-	-
SS-23	10' RT	43+80	62.2-63.6	A-2(4(0))	22	NP	7.9	77.2	9.9	5.1	94	90	17	-	-

- (A) - MEDIUM STIFF TO STIFF TAN BROWN SANDY SILT AND LOOSE TO MEDIUM DENSE TAN BROWN SAND, MOIST (ROADWAY EMBANKMENT)
- (B) - MEDIUM STIFF TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

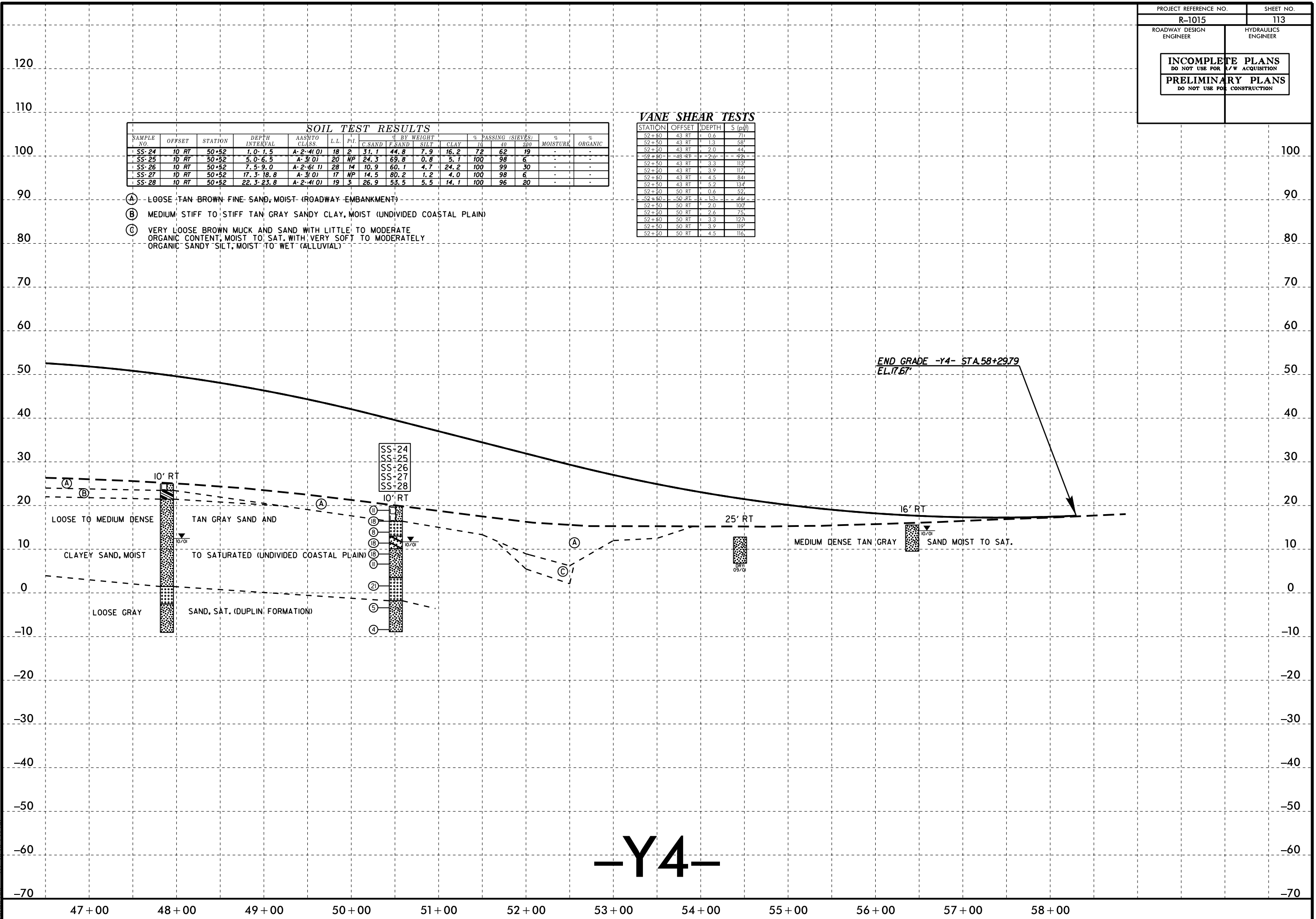


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	#10	#40	#200			
SS-24	10 RT	50+52	1.0-1.5	A-2-4(0)	18	2	31.1	44.8	7.9	16.2	72	62	19	-	-
SS-25	10 RT	50+52	5.0-6.5	A-3(0)	20	NP	24.3	69.8	0.8	5.1	100	98	6	-	-
SS-26	10 RT	50+52	7.5-9.0	A-2-6(1)	28	14	10.9	60.1	4.7	24.2	100	99	30	-	-
SS-27	10 RT	50+52	17.3-18.8	A-3(0)	17	NP	14.5	80.2	1.2	4.0	100	98	6	-	-
SS-28	10 RT	50+52	22.3-23.8	A-2-4(0)	19	3	26.9	53.5	5.5	14.1	100	96	20	-	-

VANE SHEAR TESTS			
STATION	OFFSET	DEPTH	S (psf)
52+50	43 RT	0.6	71
52+50	43 RT	1.3	58
52+50	43 RT	2.0	44
52+50	43 RT	2.7	32
52+50	43 RT	3.3	113
52+50	43 RT	3.9	117
52+50	43 RT	4.5	84
52+50	43 RT	5.2	134
52+50	50 RT	0.6	52
52+50	50 RT	1.3	46
52+50	50 RT	2.0	100
52+50	50 RT	2.6	75
52+50	50 RT	3.3	127
52+50	50 RT	3.9	119
52+50	50 RT	4.5	116

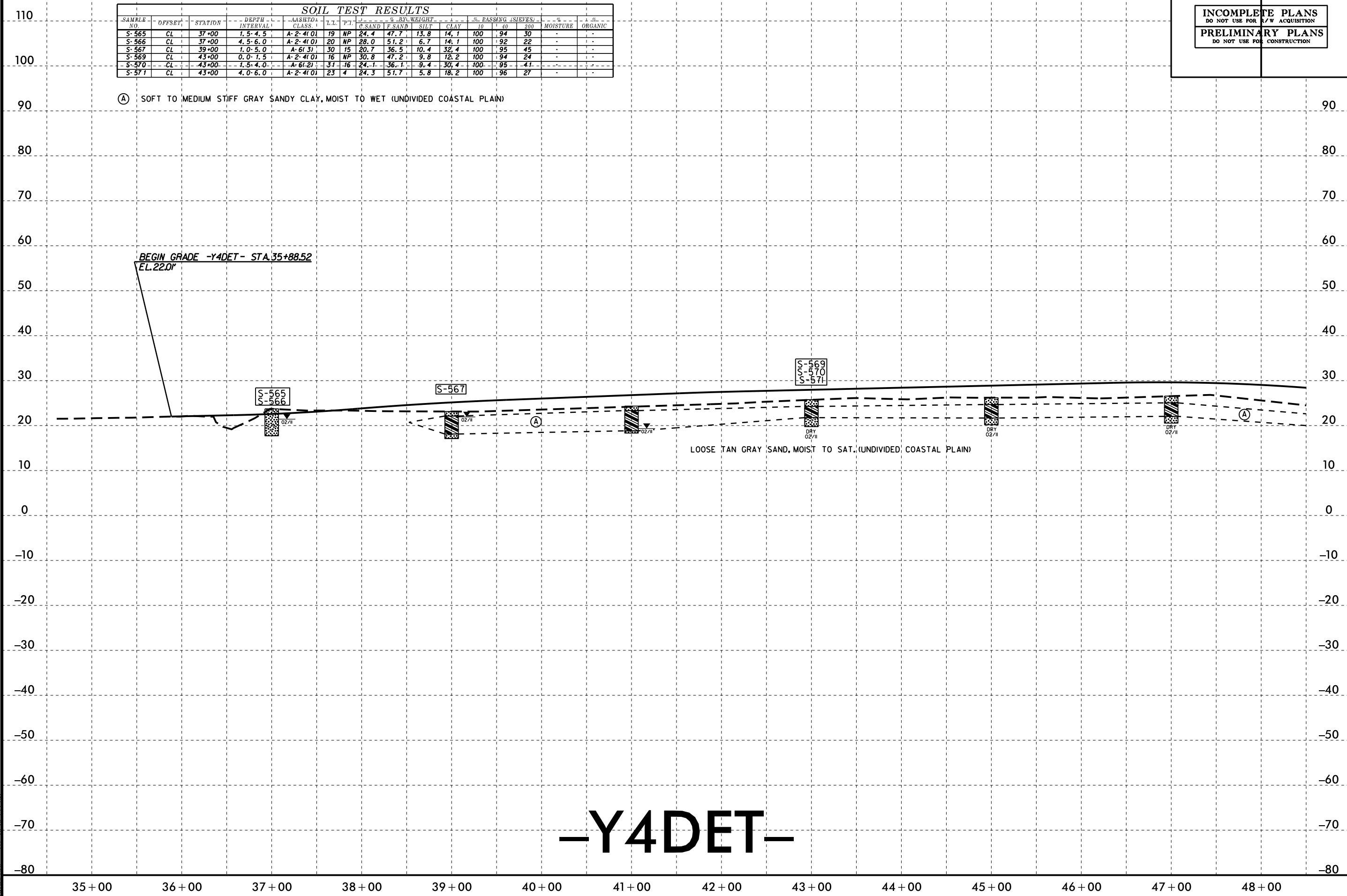
- (A) LOOSE TAN BROWN FINE SAND, MOIST (ROADWAY EMBANKMENT)
- (B) MEDIUM STIFF TO STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (C) VERY LOOSE BROWN MUCK AND SAND WITH LITTLE TO MODERATE ORGANIC CONTENT, MOIST TO SAT. WITH VERY SOFT TO MODERATELY ORGANIC SANDY SILT, MOIST TO WET (ALLUVIAL)



-Y4-

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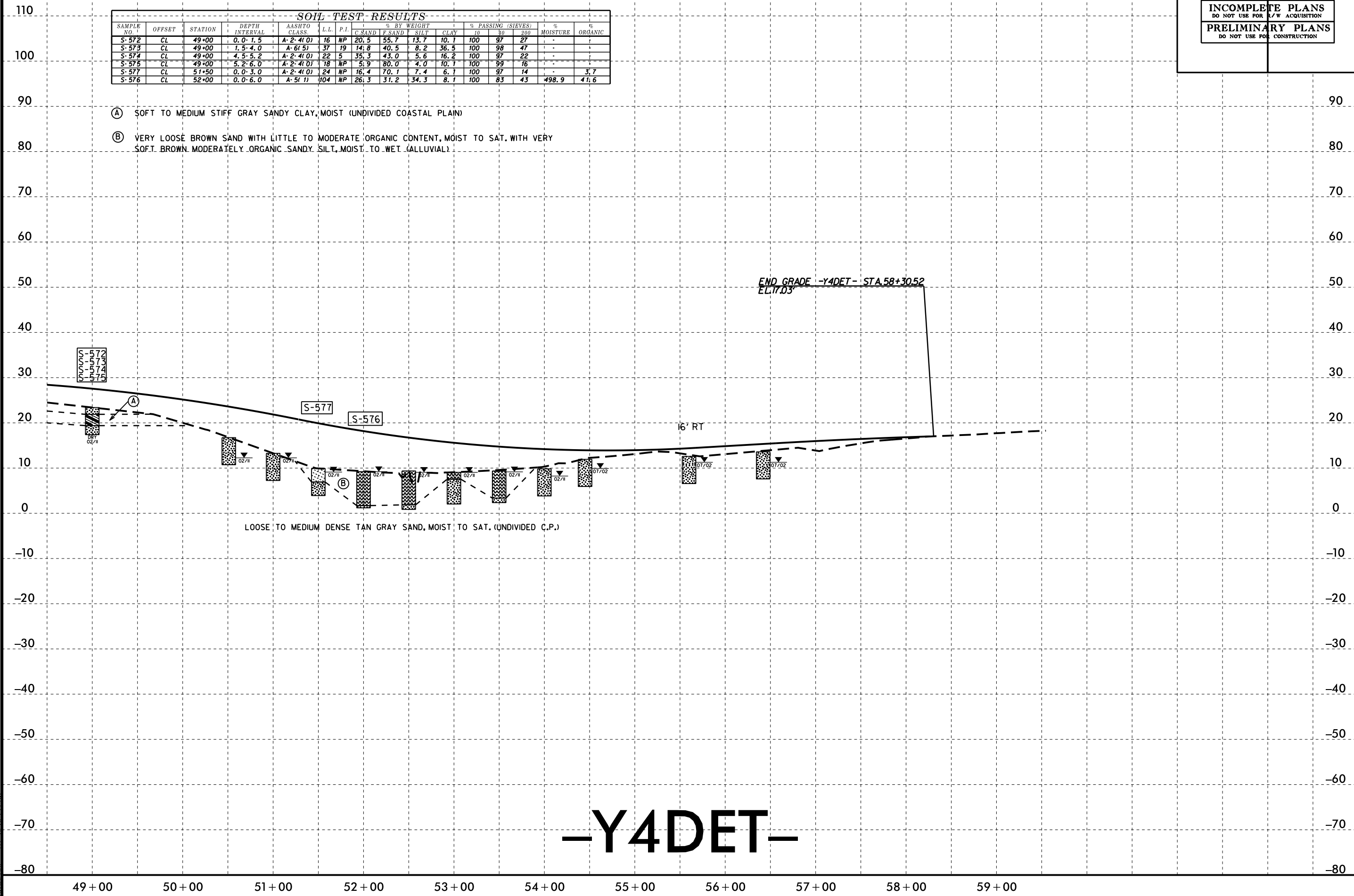
SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.T.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC
							CO SAND	F SAND	SILT	CLAY	#10	#200		
S-565	CL	37+00	1.5-4.5	A-2-4(0)	19	NP	24.4	47.7	13.8	14.1	100	94	30	-
S-566	CL	37+00	4.5-6.0	A-2-4(0)	20	NP	28.0	51.2	6.7	14.1	100	92	22	-
S-567	CL	39+00	1.0-5.0	A-6(3)	30	15	20.7	36.5	10.4	32.4	100	95	45	-
S-569	CL	43+00	0.0-1.5	A-2-4(0)	16	NP	30.8	47.2	9.8	12.2	100	94	24	-
S-570	CL	43+00	1.5-4.0	A-6(2)	34	16	24.1	36.1	9.4	30.4	100	95	41	-
S-571	CL	43+00	4.0-6.0	A-2-4(0)	23	4	24.3	51.7	5.8	18.2	100	96	27	-



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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	30	200		
S-572	CL	49+00	0.0-1.5	A-2-4(0)	16	NP	20.5	55.7	13.7	10.1	100	97	27	-	-
S-573	CL	49+00	1.5-4.0	A-6(5)	37	19	14.8	40.5	8.2	36.5	100	98	47	-	-
S-574	CL	49+00	4.5-5.2	A-2-4(0)	22	5	35.3	43.0	5.6	16.2	100	97	22	-	-
S-575	CL	49+00	5.2-6.0	A-2-4(0)	18	NP	5.9	80.0	4.0	10.1	100	99	16	-	-
S-577	CL	51+50	0.0-3.0	A-2-4(0)	24	NP	16.4	70.1	7.4	6.1	100	97	14	-	3.7
S-576	CL	52+00	0.0-6.0	A-5(1)	104	NP	26.3	31.2	34.3	8.1	100	83	43	498.9	41.6

- (A) SOFT TO MEDIUM STIFF GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) VERY LOOSE BROWN SAND WITH LITTLE TO MODERATE ORGANIC CONTENT, MOIST TO SAT. WITH VERY SOFT BROWN MODERATELY ORGANIC SANDY SILT, MOIST TO WET (ALLUVIAL)

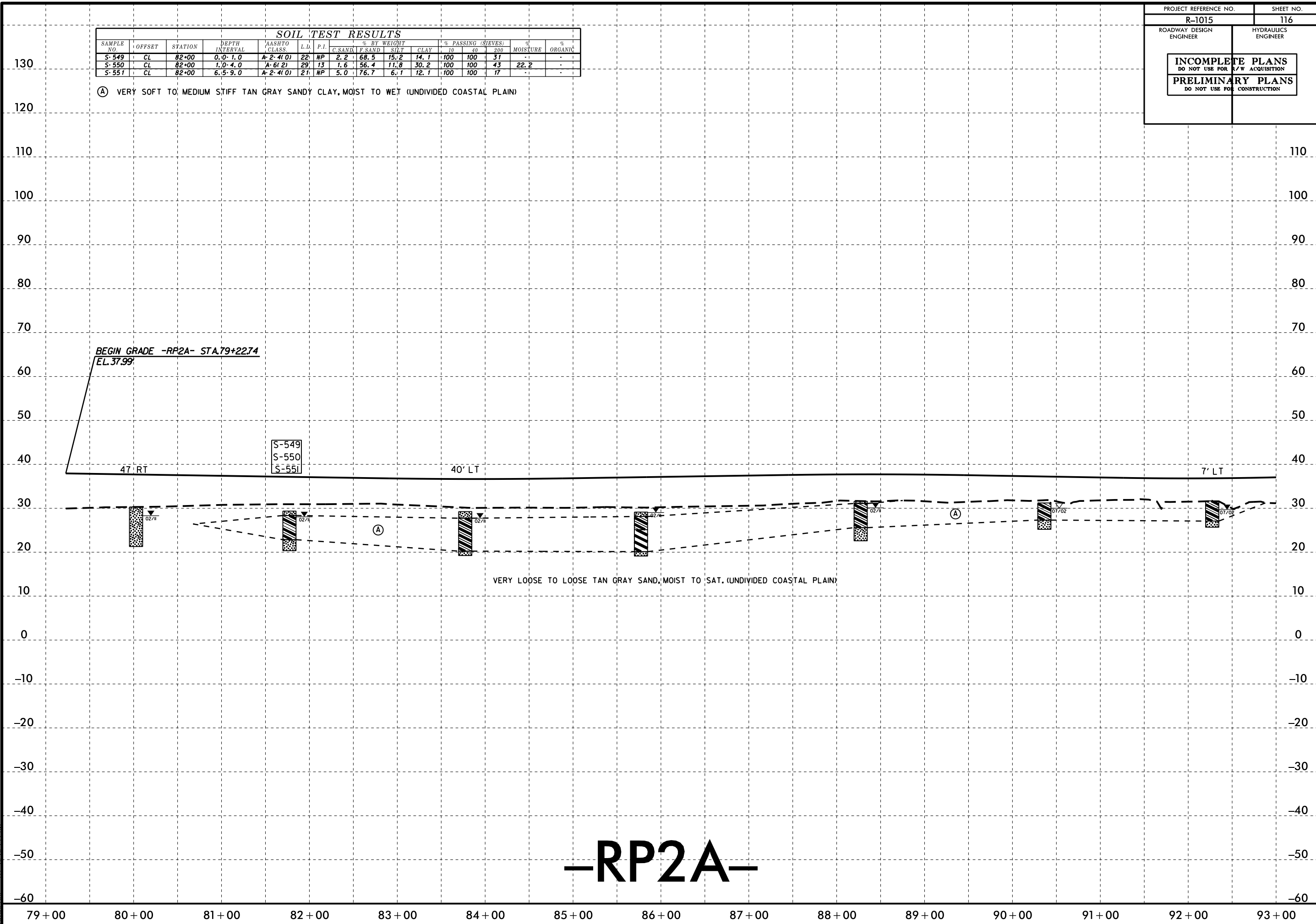


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PROJECT REFERENCE NO.	SHEET NO.
R-1015	116
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.D.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C SAND	F SAND	CLAY	#10	#40	#200		
S-549	CL	82+00	0.0-1.0	A-2-4(0)	22	NP	2.2	68.5	15.2	14.1	100	100	31	-
S-550	CL	82+00	1.0-4.0	A-6(2)	29	13	1.6	56.4	11.8	30.2	100	100	43	22.2
S-551	CL	82+00	6.5-9.0	A-2-4(0)	21	NP	5.0	76.7	6.1	12.1	100	100	17	-

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



BEGIN GRADE -RP2A- STA.79+2274  
EL.37.99'

S-549  
S-550  
S-551

47' RT

40' LT

7' LT

VERY LOOSE TO LOOSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED COASTAL PLAIN)

**-RP2A-**

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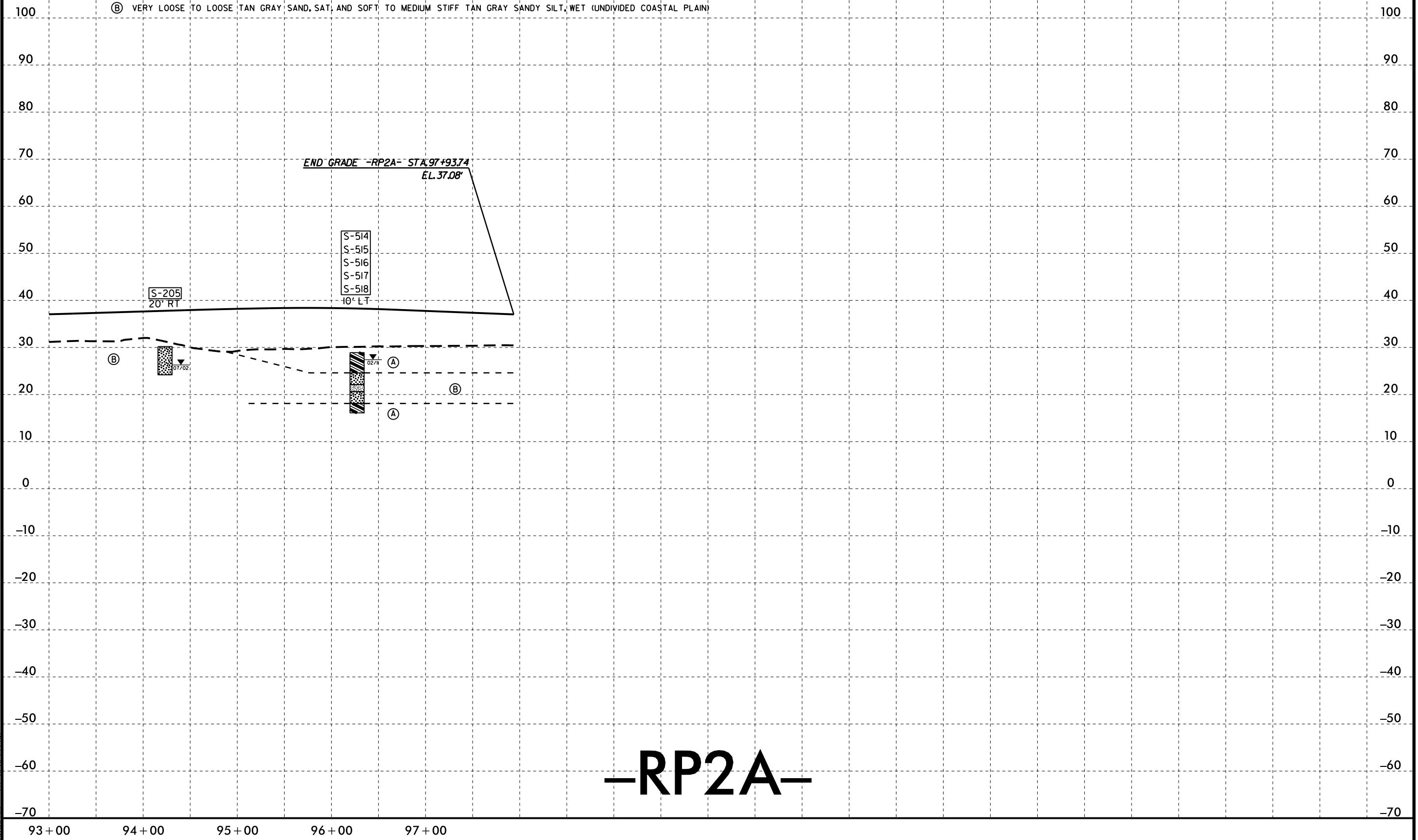


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PROJECT REFERENCE NO.	SHEET NO.
R-1015	117
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

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		
S-205	20 RT	94+49	0.6-6.2	A-2-4(0)	20	2	4.8	63.8	15.3	16.1	100	100	33	-	-
S-514	10 LT	96+50	0.0-4.3	A-6(2)	27	11	2.2	55.7	13.9	28.2	100	100	44	-	-
S-515	10 LT	96+50	4.3-6.8	A-2-4(0)	22	3	1.8	71.2	4.8	22.1	100	100	29	-	-
S-516	10 LT	96+50	6.8-8.3	A-4(1)	25	9	2.4	58.1	11.3	28.2	100	100	45	-	-
S-517	10 LT	96+50	8.3-10.8	A-2-4(0)	23	NP	2.0	87.1	3.8	7.0	100	99	12	-	-
S-518	10 LT	96+50	10.8-12.8	A-6(5)	30	14	1.0	44.1	22.7	32.2	100	100	57	-	-

- (A) VERY SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) VERY LOOSE TO LOOSE TAN GRAY SAND, SAT, AND SOFT TO MEDIUM STIFF TAN GRAY SANDY SILT, WET (UNDIVIDED COASTAL PLAIN)

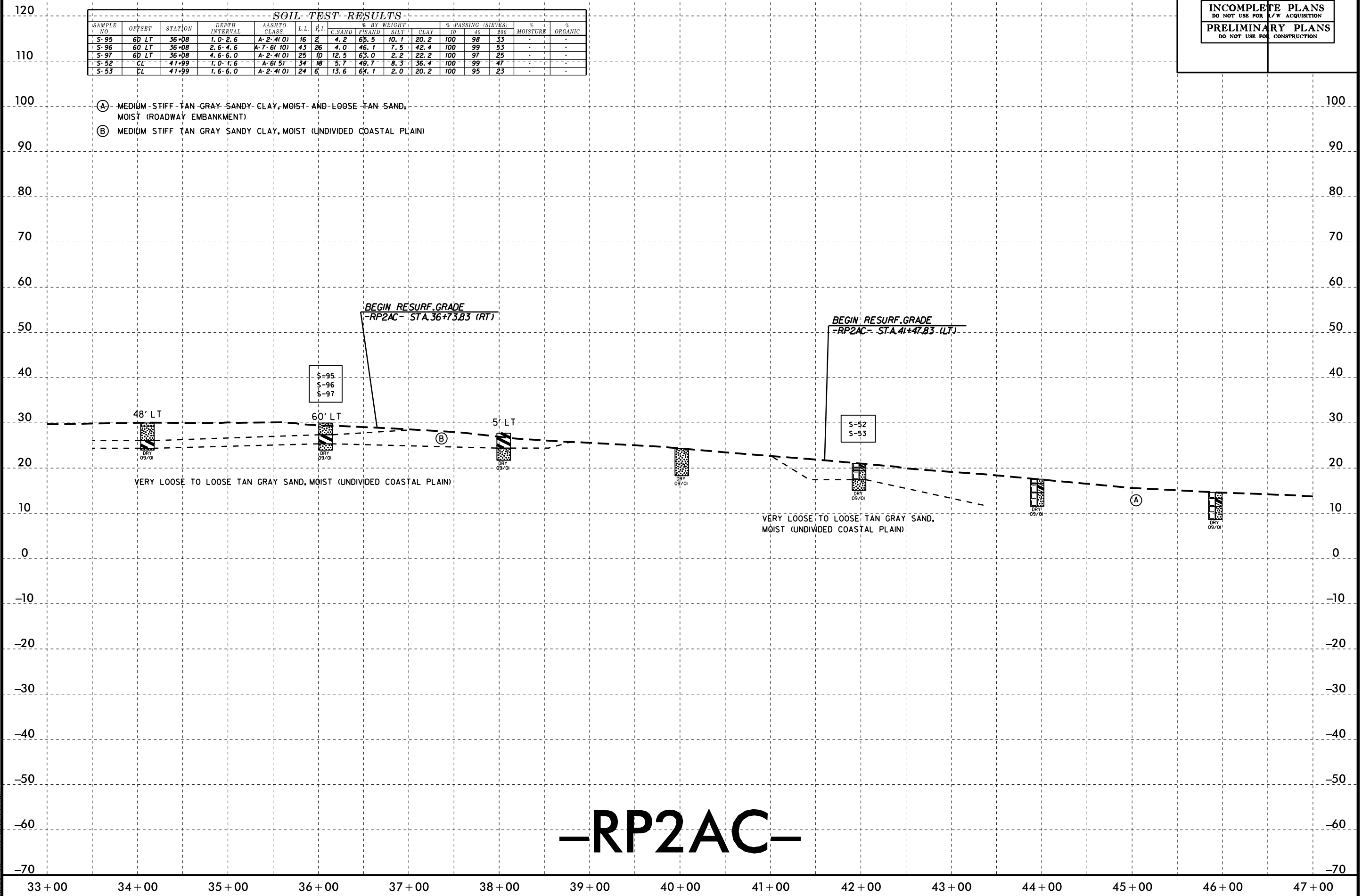


**-RP2A-**

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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
S-95	60' LT	36+08	1.0-2.6	A-2-4(0)	16	2	4.2	65.5	10.1	20.2	100	98	33	-	-
S-96	60' LT	36+08	2.6-4.6	A-7-6(10)	43	26	4.0	46.1	7.5	42.4	100	99	53	-	-
S-97	60' LT	36+08	4.6-6.0	A-2-4(0)	25	10	12.5	63.0	2.2	22.2	100	97	25	-	-
S-52	CL	41+99	1.0-1.6	A-6(5)	34	18	5.7	49.7	8.3	36.4	100	99	47	-	-
S-53	CL	41+99	1.6-6.0	A-2-4(0)	24	6	13.6	64.1	2.0	20.2	100	95	23	-	-

- (A) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST AND LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)
- (B) MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)



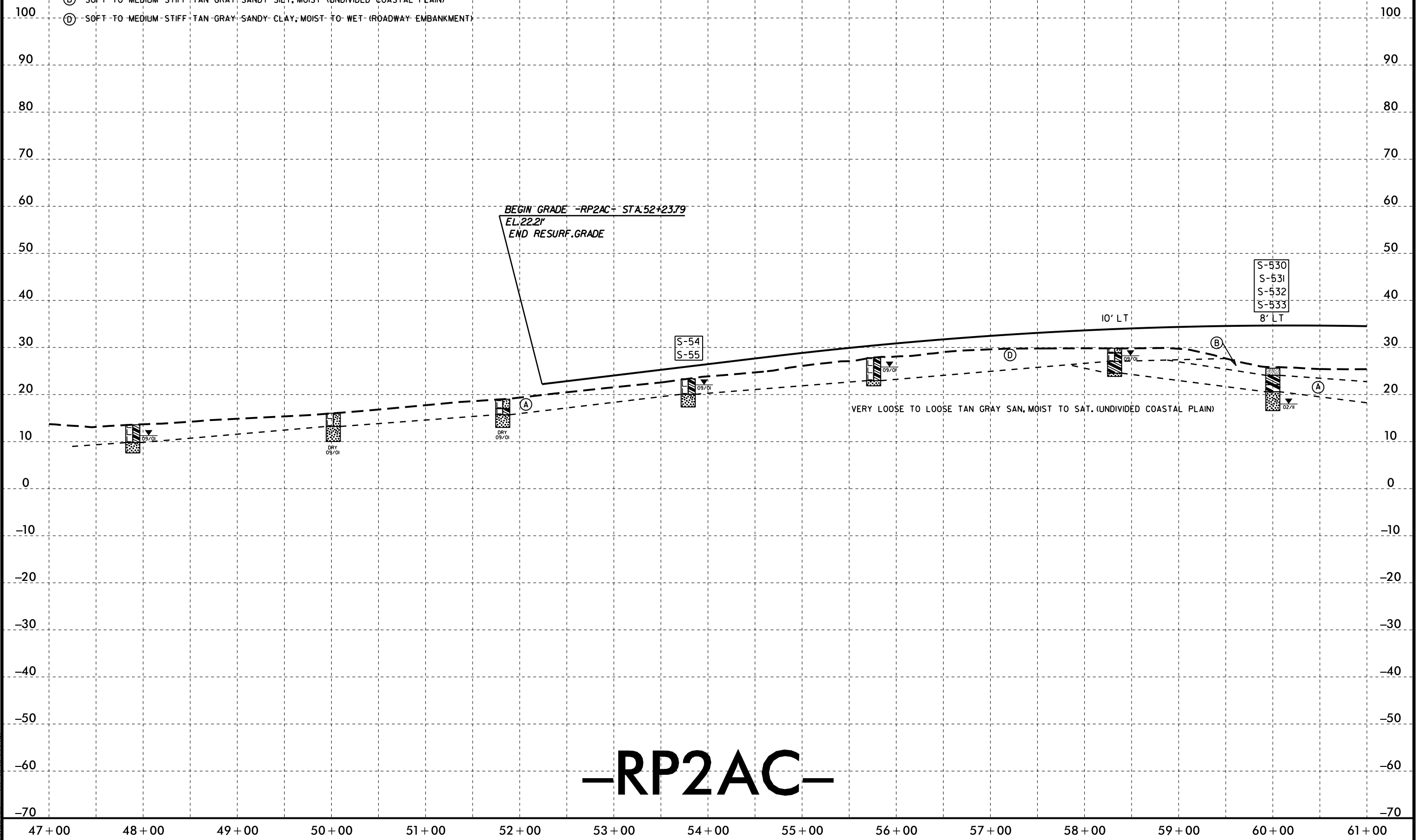
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	119
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
<b>PRELIMINARY PLANS</b> 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		
S-54	CL	53+80	1.0-3.5	A-6(2)	53	15	5.3	58.0	4.4	32.3	100	99	38	-	-
S-55	CL	53+80	5.3-6.0	A-2(4(0))	17	NP	13.6	72.2	3.0	11.1	100	98	15	-	-
S-530	8 LT	60+00	0.0-1.5	A-4(0)	20	4	10.1	55.9	11.9	22.1	100	97	36	-	-
S-531	8 LT	60+00	1.5-3.5	A-6(4)	32	17	6.0	48.1	11.6	34.2	100	98	48	-	-
S-532	8 LT	60+00	3.5-5.0	A-7-6(19)	49	29	2.4	28.8	14.4	54.4	100	99	71	-	-
S-533	8 LT	60+00	5.0-8.0	A-2-4(0)	24	6	11.9	61.0	4.9	22.2	100	96	28	-	-

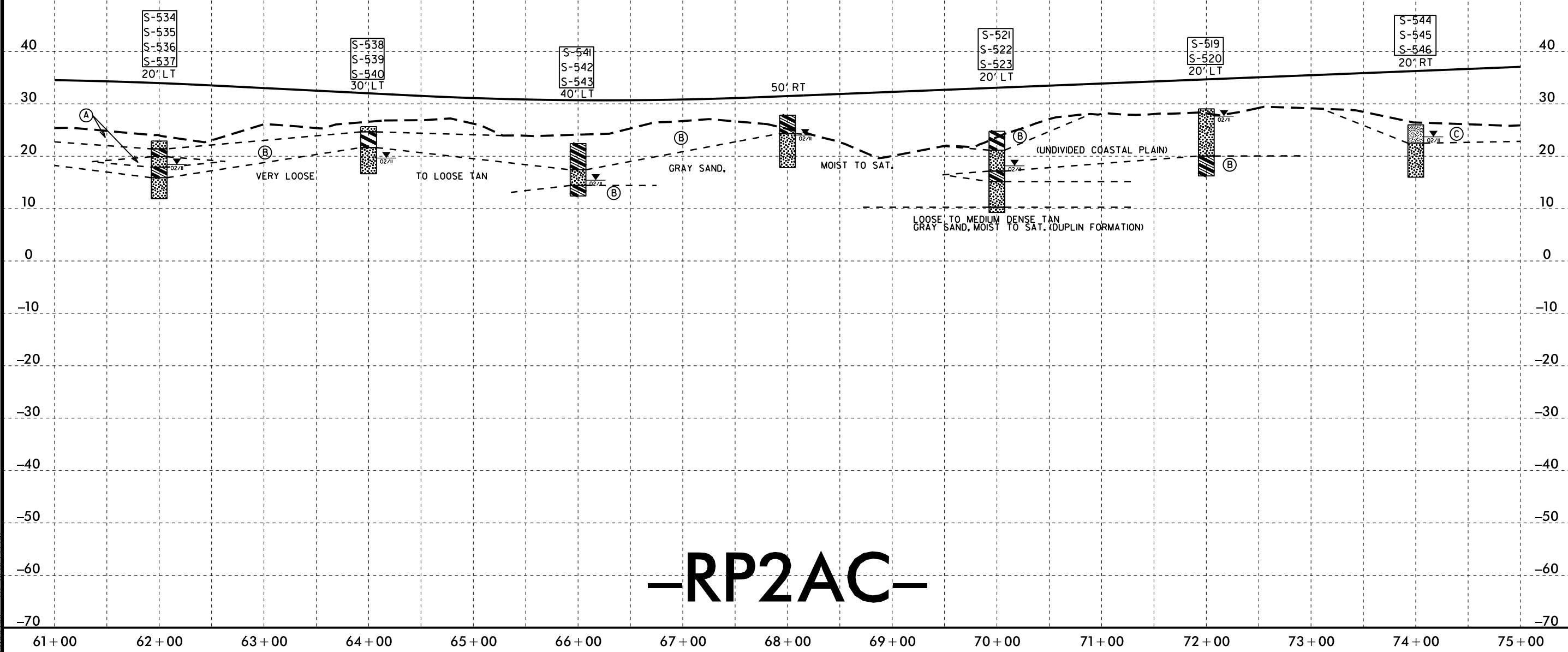
- (A) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY SILT, MOIST (UNDIVIDED COASTAL PLAIN)
- (D) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST TO WET (ROADWAY EMBANKMENT)



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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-534	20' LT	62+00	1.5-3.0	A-6(1)	27	11	8.1	53.2	6.5	32.2	100	98	40	-	-
S-535	20' LT	62+00	3.0-4.0	A-2(4)	25	5	25.0	52.4	0.5	22.2	100	91	23	-	-
S-536	20' LT	62+00	4.0-5.0	A-2(4)	23	3	1.0	70.5	6.3	22.2	100	100	32	-	-
S-537	20' LT	62+00	5.0-7.0	A-6(2)	32	13	0.4	62.4	6.9	30.2	100	100	40	-	-
S-538	30' LT	64+00	0.0-1.0	A-2(4)	18	NP	6.2	62.2	15.4	16.1	100	99	35	-	-
S-539	30' LT	64+00	1.0-3.0	A-7(6)	58	37	2.6	29.0	16.0	52.4	100	99	70	-	-
S-540	30' LT	64+00	4.0-9.0	A-2(4)	23	4	9.9	66.3	1.7	22.2	100	97	25	-	-
S-541	40' LT	66+00	0.5-5.0	A-6(7)	40	20	2.8	45.5	11.4	40.3	100	100	53	-	-
S-542	40' LT	66+00	5.0-8.0	A-2(4)	23	NP	1.8	82.8	1.3	14.1	100	100	17	-	-
S-543	40' LT	66+00	8.0-9.0	A-6(2)	30	13	12.9	49.1	11.8	26.2	100	95	40	-	-
S-521	20' LT	70+00	1.0-3.6	A-7(6)	43	25	2.4	46.7	8.7	42.3	100	100	52	-	-
S-522	-20' LT	-70+00	-3.6-7.6	A-2(4)	20	NP	10.8	75.4	-2.8	-11.1	-100	-97	-14	-	-
S-523	20' LT	70+00	7.6-8.6	A-6(2)	29	11	11.7	45.1	13.1	30.2	99	92	45	-	-
S-519	42' RT	72+00	0.0-9.0	A-2(4)	25	5	2.1	70.3	7.4	20.1	100	100	30	-	-
S-520	42' RT	72+00	9.0-12.8	A-6(15)	39	19	1.6	18.1	44.1	36.2	100	99	83	-	-
S-544	20' RT	74+00	1.5-3.5	A-4(1)	25	8	2.2	55.8	11.8	30.2	100	100	44	-	-
S-545	20' RT	74+00	3.5-4.5	A-2(4)	21	NP	3.8	76.1	3.9	16.1	100	100	21	-	-
S-546	-20' RT	-74+00	-4.5-10.0	A-2(4)	20	NP	18.1	69.1	-2.7	-10.1	-100	-98	-14	-	-

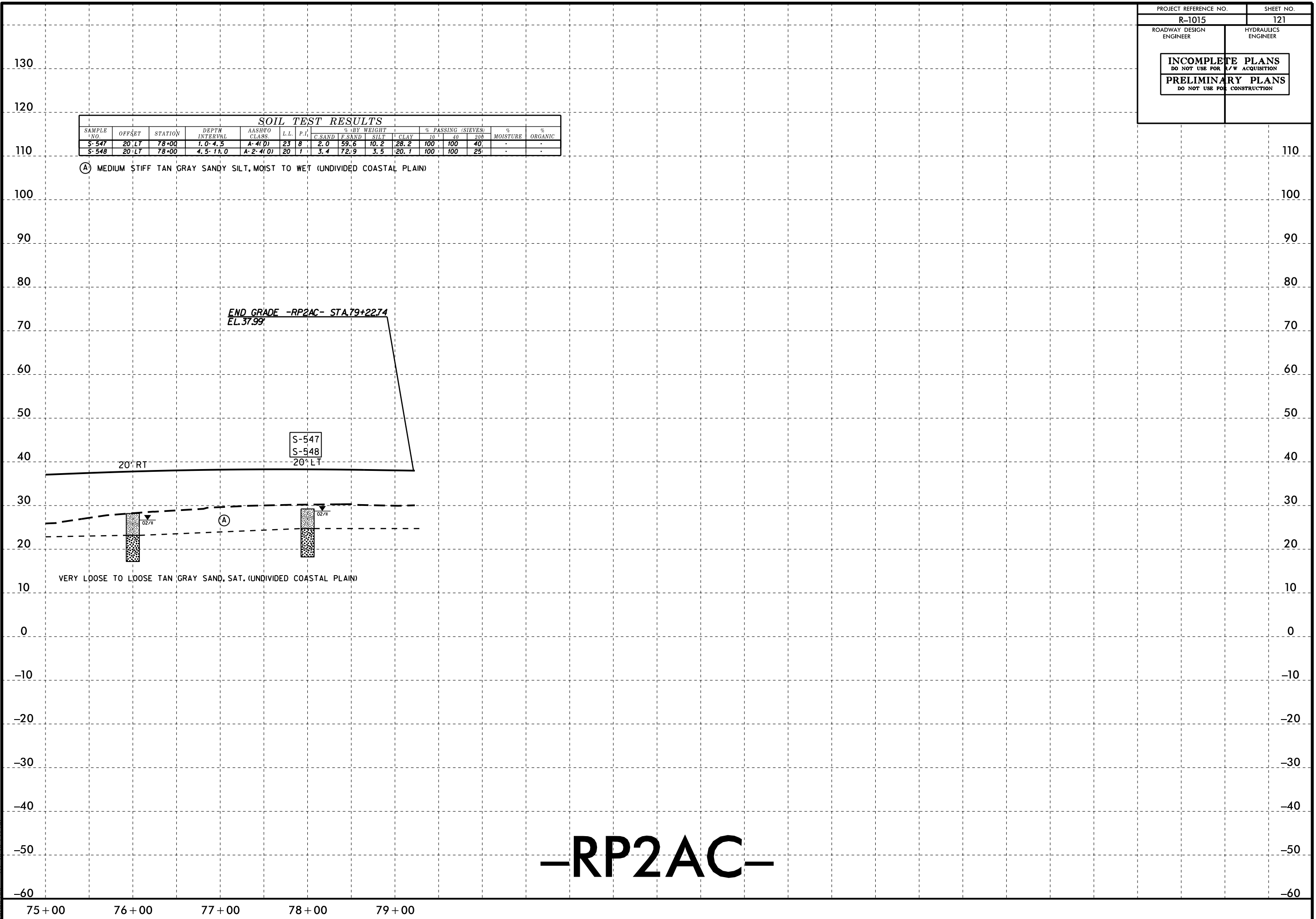
- (A) VERY LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY AND SILTY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) MEDIUM STIFF TAN GRAY SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



-RP2AC-

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-547	20' LT	78+00	1.0-4.5	A-4(0)	23	8	2.0	59.6	10.2	28.2	100	100	40	-	-
S-548	20' LT	78+00	4.5-11.0	A-2-4(0)	20	1	3.4	72.9	3.5	20.1	100	100	25	-	-

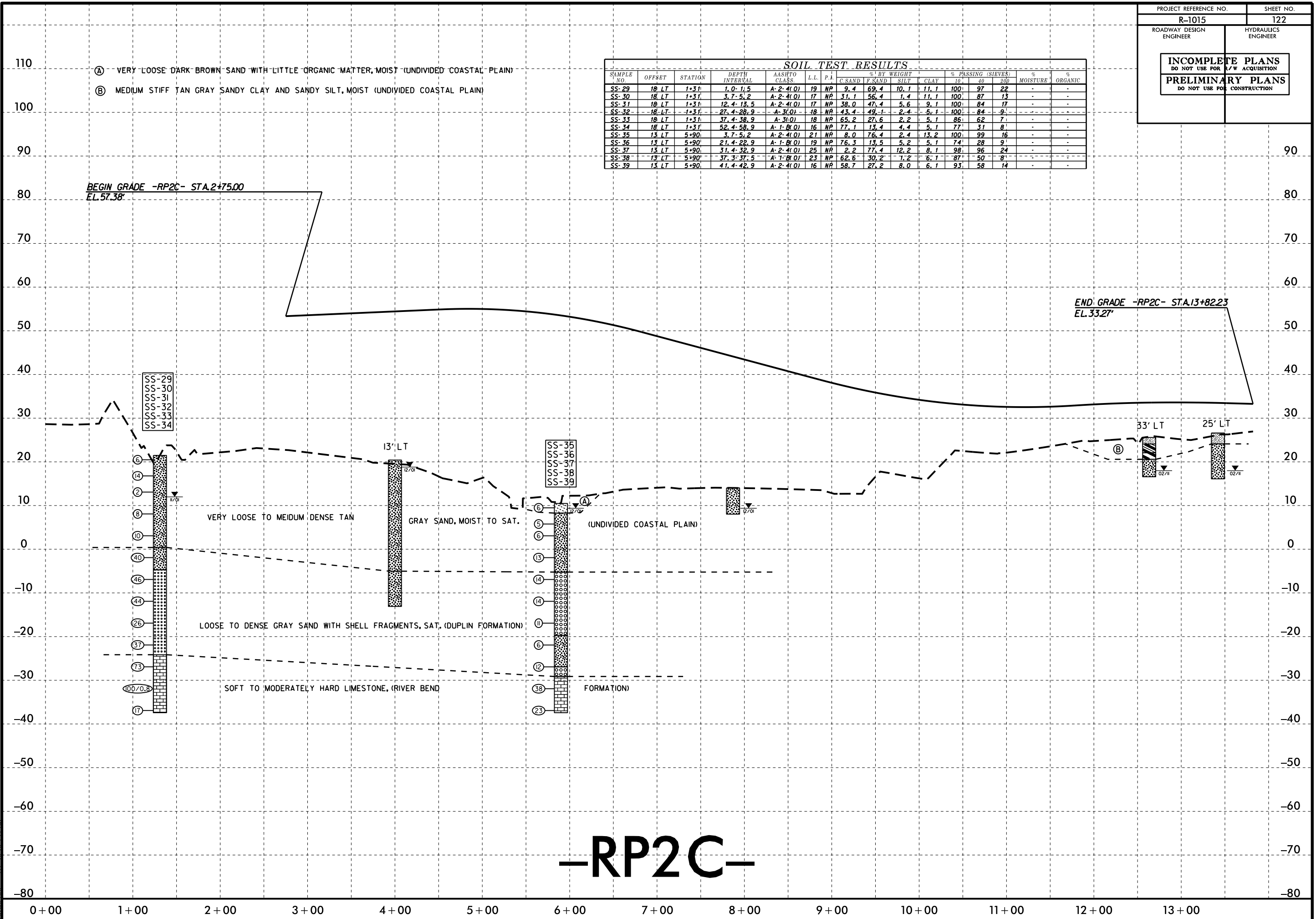
(A) MEDIUM STIFF TAN GRAY SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



**-RP2AC-**

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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	#20			
SS-29	18' LT	1+31	1.0'-11.5'	A-2-4(0)	19	NP	9.4	69.4	10.1	11.1	100	97	22	-	-
SS-30	18' LT	1+31	3.7'-51.2'	A-2-4(0)	17	NP	31.1	56.4	1.4	11.1	100	87	13	-	-
SS-31	18' LT	1+31	12.4'-15.5'	A-2-4(0)	17	NP	38.0	47.4	5.6	9.1	100	84	17	-	-
SS-32	18' LT	1+31	27.4'-28.9'	A-3(0)	18	NP	43.4	49.1	2.4	5.1	100	84	9	-	-
SS-33	18' LT	1+31	37.4'-38.9'	A-3(0)	18	NP	65.2	27.6	2.2	5.1	86	62	7	-	-
SS-34	18' LT	1+31	52.4'-58.9'	A-1-8(0)	16	NP	77.1	13.4	4.4	5.1	77	31	8	-	-
SS-35	13' LT	5+90	3.7'-51.2'	A-2-4(0)	21	NP	8.0	76.4	2.4	13.2	100	99	16	-	-
SS-36	13' LT	5+90	21.4'-22.9'	A-1-8(0)	19	NP	76.3	13.5	5.2	5.1	74	28	9	-	-
SS-37	13' LT	5+90	31.4'-32.9'	A-2-4(0)	25	NP	2.2	77.4	12.2	8.1	98	96	24	-	-
SS-38	13' LT	5+90	37.3'-37.5'	A-1-8(0)	23	NP	62.6	30.2	7.2	6.1	87	50	8	-	-
SS-39	13' LT	5+90	41.4'-42.9'	A-2-4(0)	16	NP	58.7	27.2	8.0	6.1	93	58	14	-	-



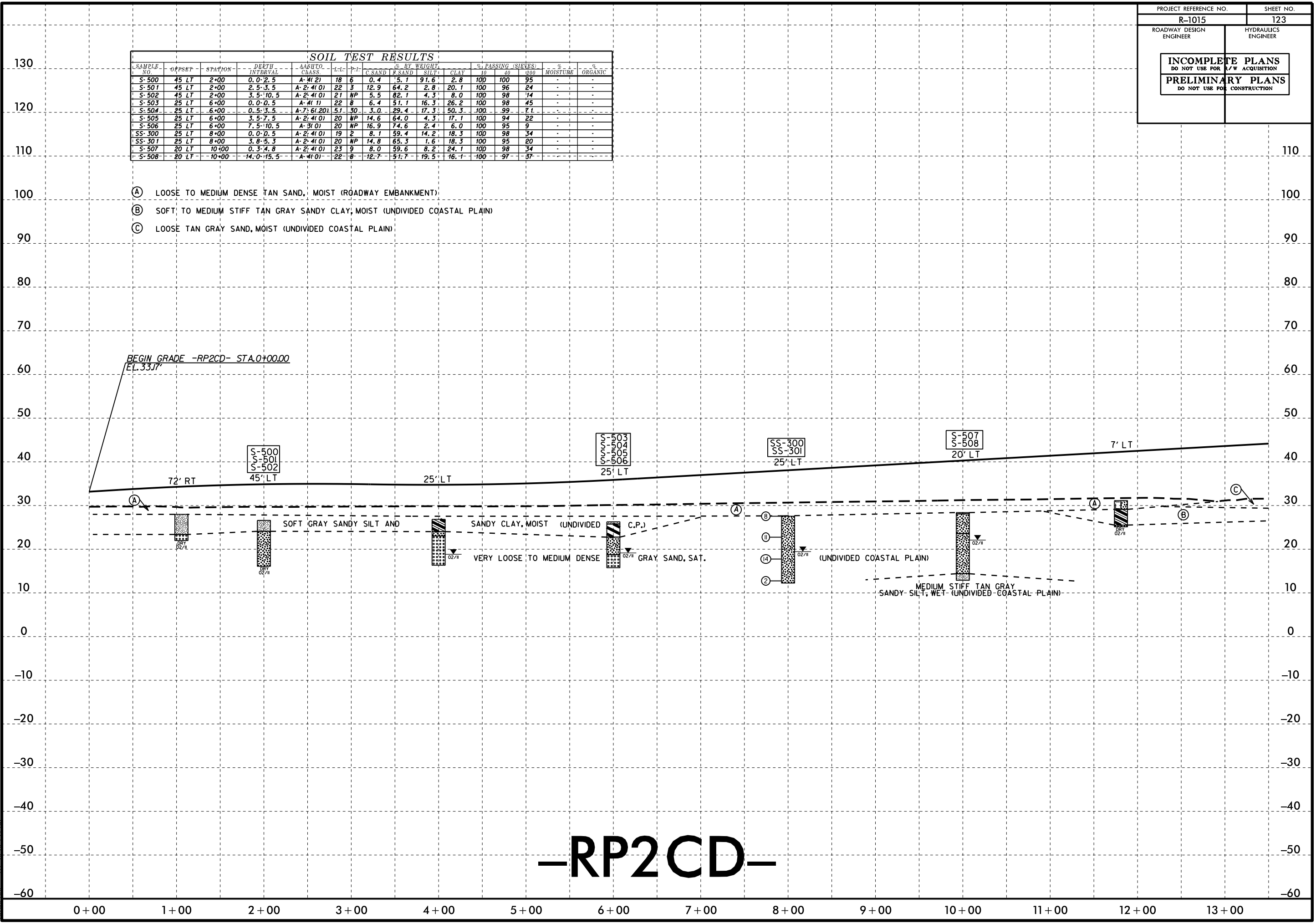
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SOIL TEST RESULTS													
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	ASTM CLASS	L.L.	P.L.	BY WEIGHT			% PASSING (SIEVES)		% MOISTURE	% ORGANIC
							C SAND	FINE SAND	CLAY	#40	#200		
S-500	45 LT	2+00	0.0-2.5	A-1(2)	18	6	0.4	15.1	91.6	2.8	100	100	95
S-501	45 LT	2+00	2.5-3.5	A-2(10)	22	3	12.9	64.2	2.8	20.1	100	96	24
S-502	45 LT	2+00	3.5-10.5	A-2(10)	21	NP	5.5	82.1	4.3	8.0	100	98	14
S-503	25 LT	6+00	0.0-2.5	A-1(1)	22	8	6.4	51.1	16.3	26.2	100	98	45
S-504	25 LT	6+00	0.5-3.5	A-7(61.20)	51	30	3.0	29.4	17.3	50.3	100	99	71
S-505	25 LT	6+00	3.5-7.5	A-2(10)	20	NP	14.6	64.0	4.3	17.1	100	94	22
S-506	25 LT	6+00	7.5-10.5	A-3(0)	20	NP	16.9	74.6	2.4	6.0	100	95	9
SS-300	25 LT	8+00	0.0-2.5	A-2(10)	19	2	8.1	59.4	14.2	18.3	100	98	34
SS-301	25 LT	8+00	3.8-15.3	A-2(10)	20	NP	14.8	65.3	1.6	18.3	100	95	20
S-507	20 LT	10+00	0.3-4.8	A-2(10)	23	9	8.0	59.6	8.2	24.1	100	98	34
S-508	20 LT	10+00	14.0-15.5	A-4(0)	22	8	12.7	51.7	19.5	16.1	100	97	37

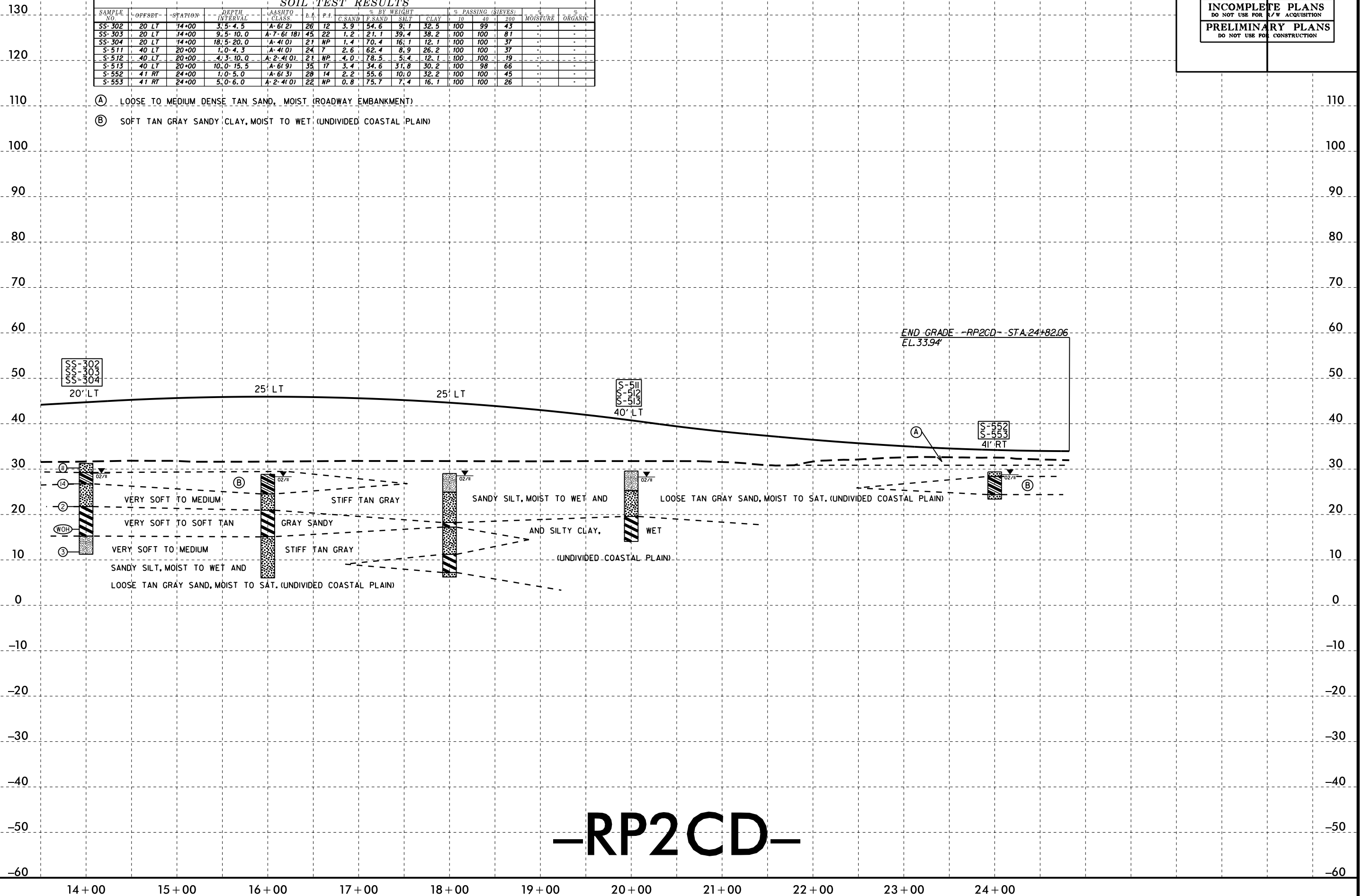
- (A) LOOSE TO MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)
- (B) SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TAN GRAY SAND, MOIST (UNDIVIDED COASTAL PLAIN)



-RP2CD-

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	CLASS	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-302	20 LT	14+00	3.5-4.5	A-6(2)	26	12	3.9	54.6	9.1	32.5	100	99	43	-	-
SS-303	20 LT	14+00	9.5-10.0	A-7(618)	45	22	1.2	21.1	39.4	38.2	100	100	81	-	-
SS-304	20 LT	14+00	18.5-20.0	A-4(0)	21	NP	1.4	70.4	16.1	12.1	100	100	37	-	-
S-511	40 LT	20+00	1.0-4.3	A-4(0)	24	7	2.6	62.4	8.9	26.2	100	100	37	-	-
S-512	40 LT	20+00	4.3-10.0	A-2(40)	21	NP	4.0	78.5	5.4	12.1	100	100	19	-	-
S-513	40 LT	20+00	10.0-15.5	A-6(9)	35	17	3.4	34.6	31.8	30.2	100	98	66	-	-
S-552	41 RT	24+00	1.0-5.0	A-6(3)	28	14	2.2	55.6	10.0	32.2	100	100	45	-	-
S-553	41 RT	24+00	5.0-6.0	A-2(40)	22	NP	0.8	75.7	7.4	16.1	100	100	26	-	-

- (A) LOOSE TO MEDIUM DENSE TAN SAND, MOIST (ROADWAY EMBANKMENT)
- (B) SOFT TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)



-RP2CD-

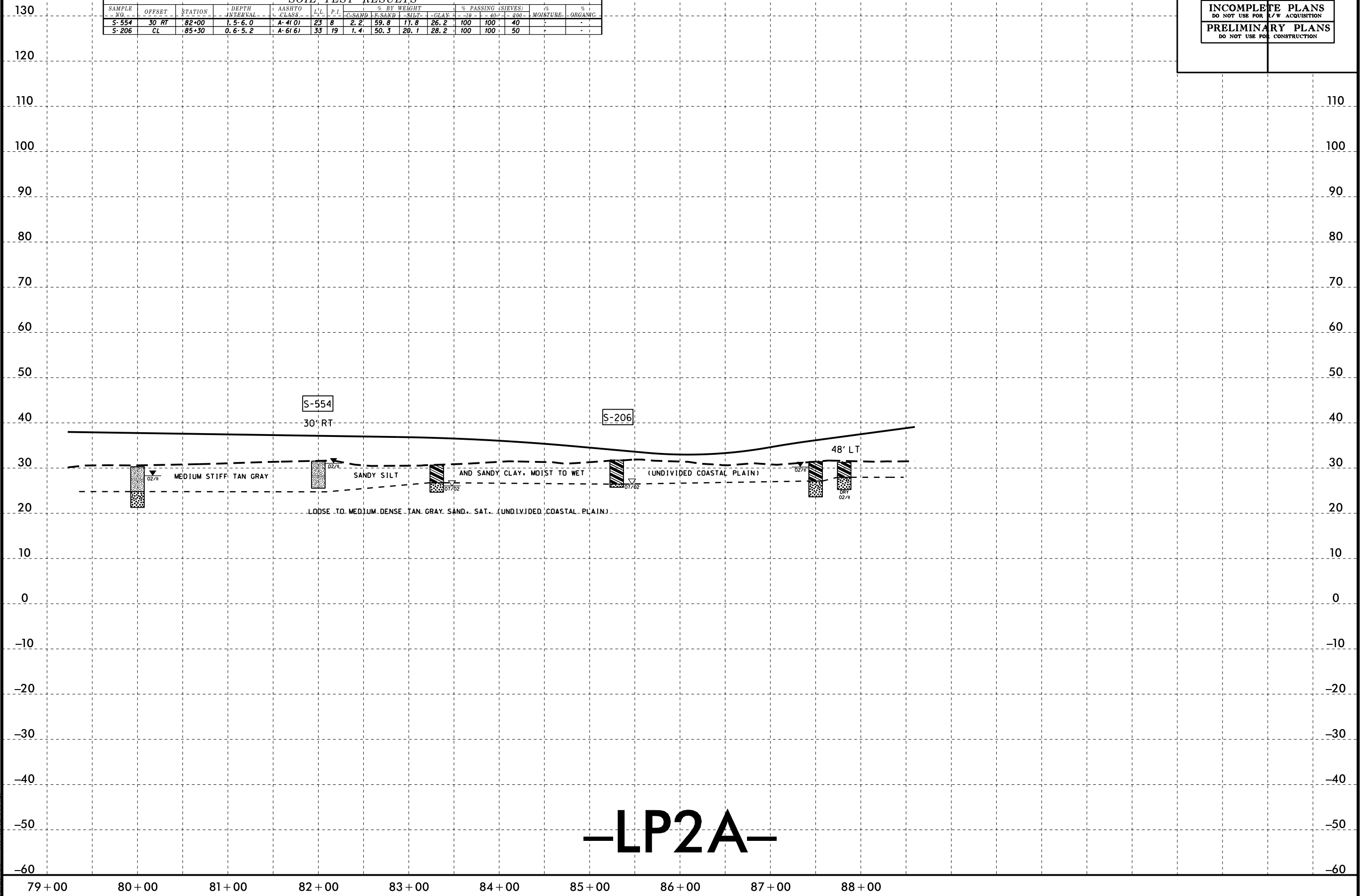
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	125
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> 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		
S-554	30 RT	82+00	1.5-6.0	A-4(0)	23	8	2.2	59.8	11.8	26.2	100	100	40	-
S-206	CL	85+30	0.6-5.2	A-6(6)	33	19	1.4	50.3	20.1	28.2	100	100	50	-

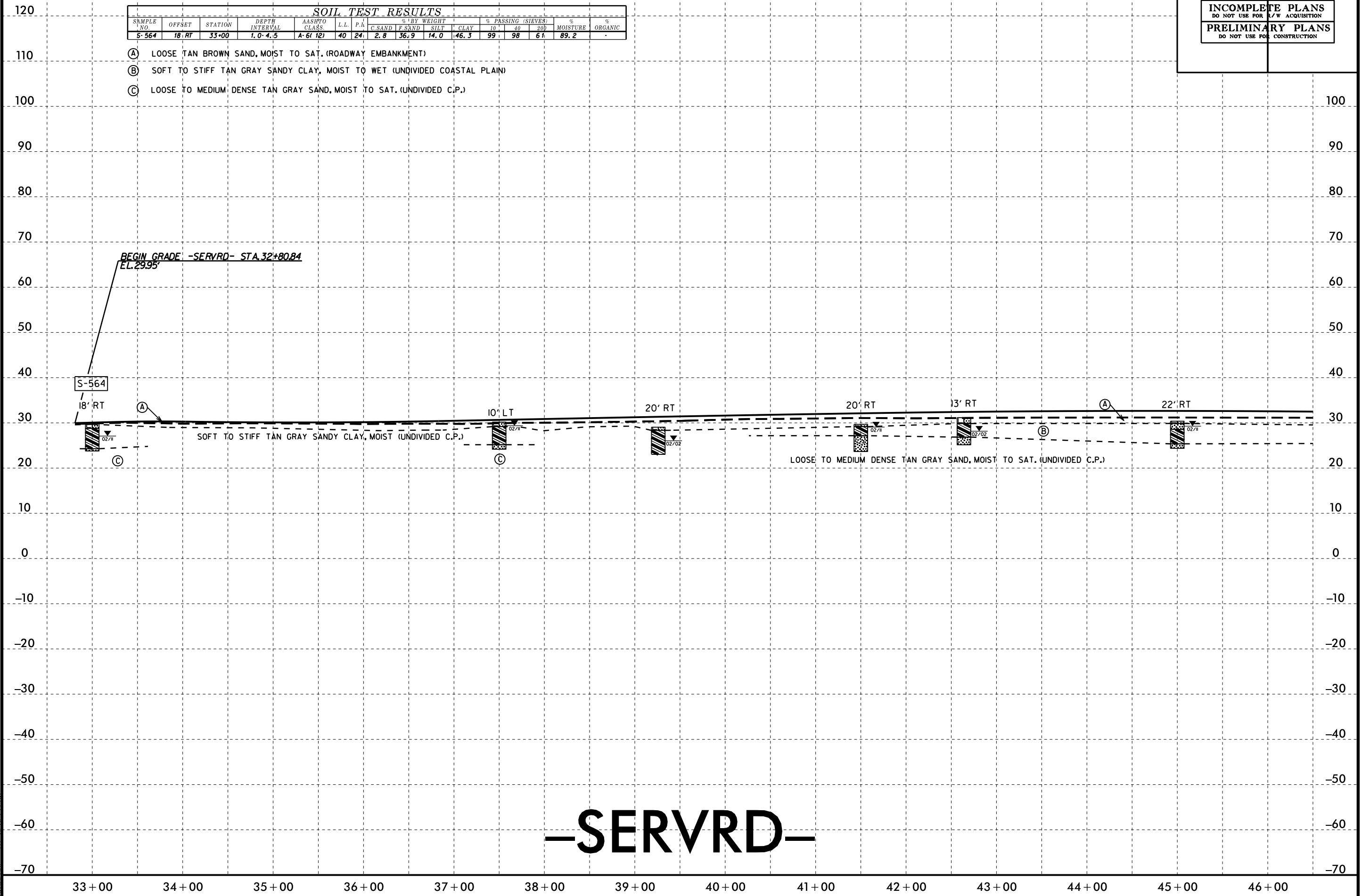


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SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS			BY WEIGHT				% PASSING (SIEVES)		% MOISTURE ORGANIC	
				C.SAND	F.SAND	SILT	CLAY	10	40	60	200	%	%	
S-564	18' RT	33+00	1.0'-4.5'	A-6(12)	40	24	2.8	36.9	14.0	46.3	99	98	61	89.2

- (A) LOOSE TAN BROWN SAND, MOIST TO SAT. (ROADWAY EMBANKMENT)
- (B) SOFT TO STIFF TAN GRAY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)
- (C) LOOSE TO MEDIUM DENSE TAN GRAY SAND, MOIST TO SAT. (UNDIVIDED C.P.)



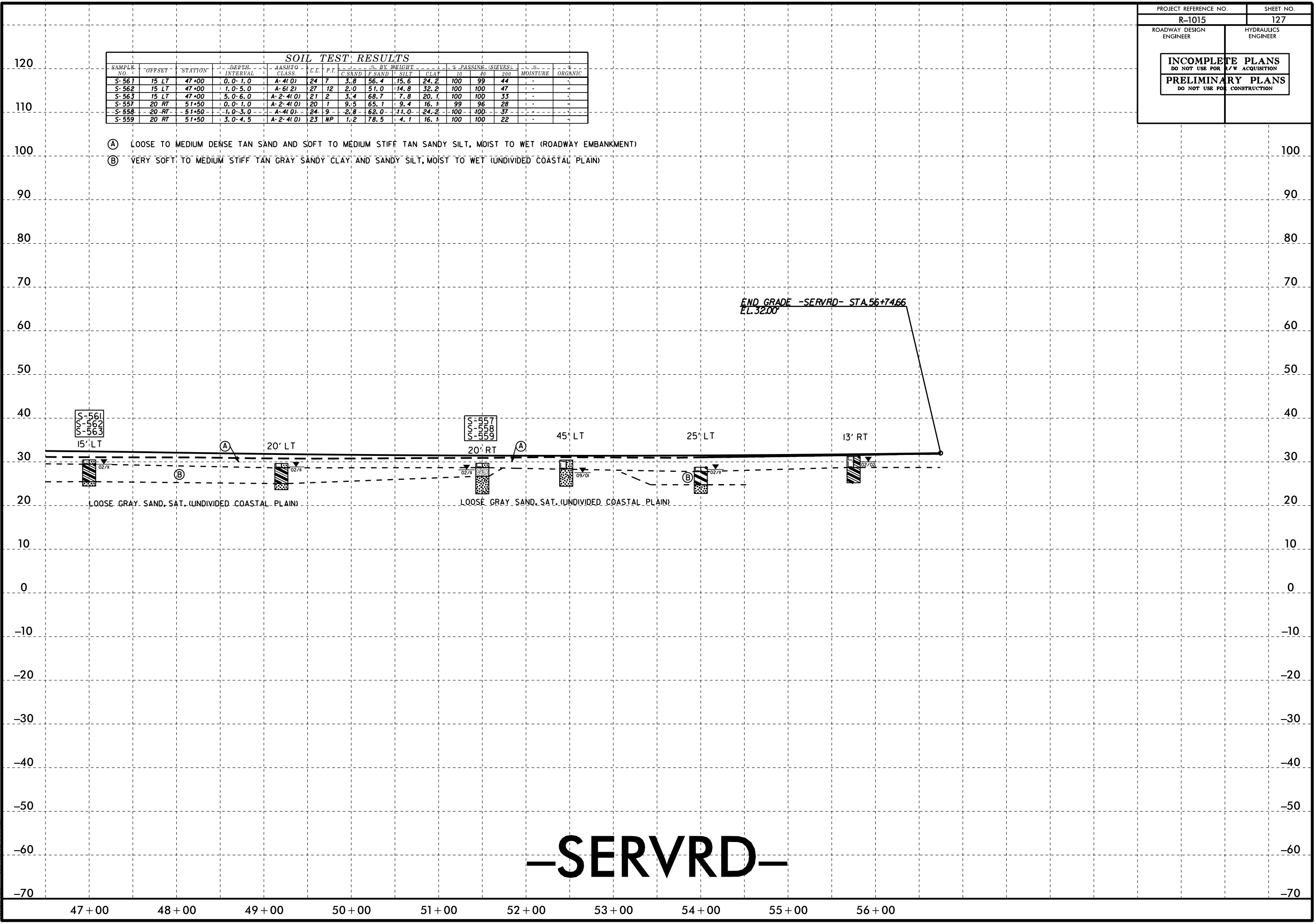
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SOIL TEST RESULTS															
SAMPLER NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING / SIEVES			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-561	15' LT	47+00	0.0-1.0	A-4(0)	24	7	3.8	56.4	15.6	24.2	100	99	44	-	-
S-562	15' LT	47+00	1.0-5.0	A-6(2)	27	12	2.0	51.0	14.8	32.2	100	100	47	-	-
S-563	15' LT	47+00	5.0-6.0	A-2-4(0)	21	2	3.4	68.7	7.8	20.1	100	100	33	-	-
S-557	20' RT	51+50	0.0-1.0	A-2-4(0)	20	1	9.5	65.1	9.4	16.1	99	96	28	-	-
S-558	20' RT	51+50	1.0-3.0	A-4(0)	24	9	2.8	62.0	11.0	24.2	100	100	37	-	-
S-559	20' RT	51+50	3.0-4.5	A-2-4(0)	23	NP	1.2	78.5	4.1	16.1	100	100	22	-	-

- (A) LOOSE TO MEDIUM DENSE TAN SAND AND SOFT TO MEDIUM STIFF TAN SANDY SILT, MOIST TO WET (ROADWAY EMBANKMENT)
- (B) VERY SOFT TO MEDIUM STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

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