

SEE SHEET 2A 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.	U-5826	1	66

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 1919 TOT-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

N. O. MOORE

P. A. KELLY

D. G. PINTER

INVESTIGATED BY N. O. MOORE

DRAWN BY N. O. MOORE

CHECKED BY N. T. ROBERSON

SUBMITTED BY N. T. ROBERSON

DATE AUGUST 2018

**ROADWAY
SUBSURFACE INVESTIGATION**

COUNTY WAKE
PROJECT DESCRIPTION FALLS OF NEUSE ROAD
(SR 2000) FROM I-540 TO DURANT ROAD (SR 2006)

INVENTORY

CONTENTS

SHEET	DESCRIPTION
1	TITLE SHEET
2	LEGEND
2A	SITE PLAN
3	TEXT
4-9	SITE PLAN

CROSS SECTIONS

LINE	STATION	PLAN	CROSS-SECTION
L	10+50-79+50	4-9	10-56
RPC	15+00-22+50	4,9	57-64
Y5	10+00-12+00	7	65-66

REFERENCE: U-5826

PROJECT: 44398



DocuSigned by:

Neil Roberson

8/29/2018

4061D9A8-CC649C

SIGNATURE

DATE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table with multiple columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION.

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

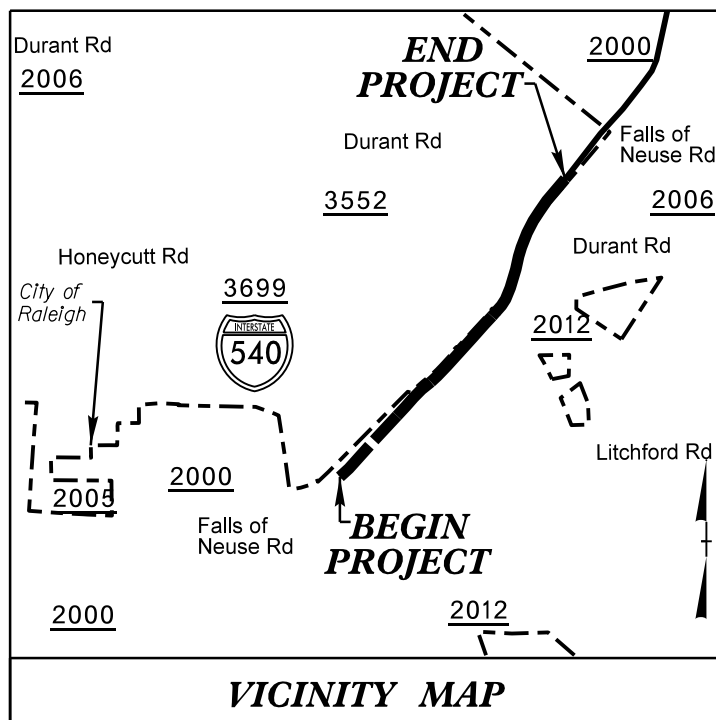
WAKE COUNTY

**LOCATION: FALLS OF NEUSE ROAD (SR 2000)
FROM I-540 TO DURANT ROAD (SR 2006)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND SIGNALS

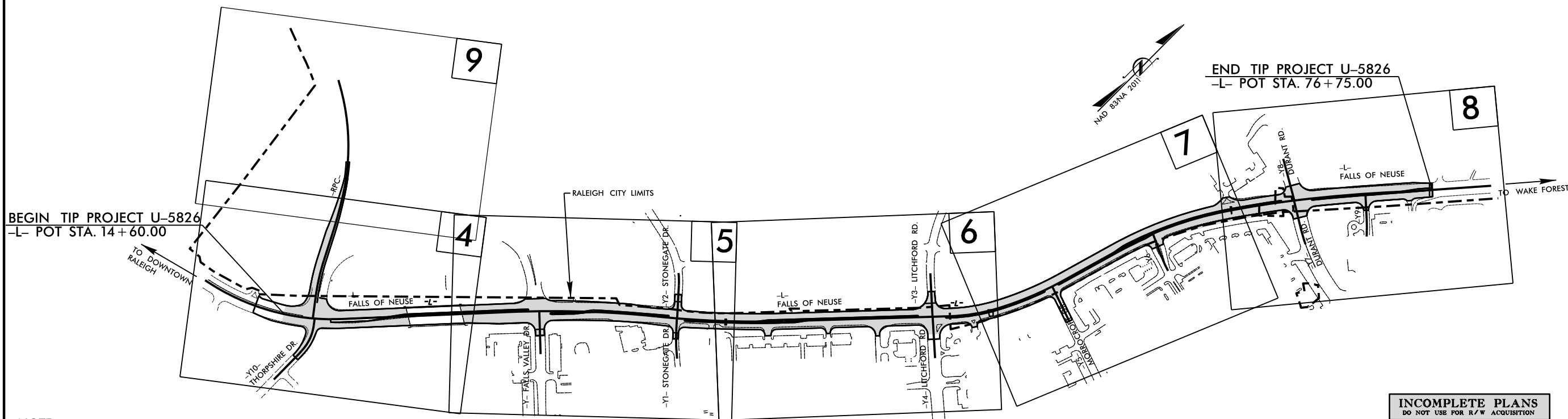
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N.C.	U-5826	2A	66
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44398.1.1	NA	P.E.	

TIP PROJECT: U-5826



VICINITY MAP

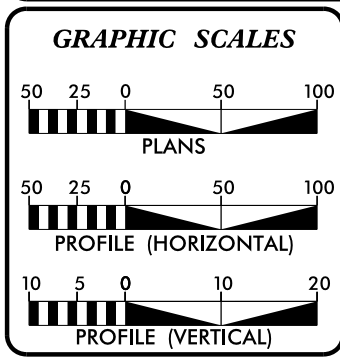
25% PLANS SUBMITTAL



- NOTE:**
1. THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF RALEIGH.
 2. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD _____.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2019 =	53,576
ADT 2039 =	64,456
K =	8 %
D =	60 %
T =	3 % *
V =	50 MPH
* TTST = 1% DUAL 2%	
FUNC CLASS =	MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5826 =	1.123 MILES
LENGTH EXIST. STRUCTURE TIP PROJECT U-5826 =	0.054 MILES
TOTAL LENGTH TIP PROJECT U-5826 =	1.177 MILES

Prepared in the Office of:
KCI Associates of N.C., P.A.
4505 Falls of Neuse Road
Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
Fax (919) 783-9266

KCI

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 15, 2018

LETTING DATE:
DECEMBER 17, 2019

NCDOT CONTACT: JOHN W. BRAXTON JR.
SENIOR PROJECT ENGINEER

Plans Prepared For:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr.
Raleigh NC, 27610

CHARLES L. FLOWE, P.E.
PROJECT ENGINEER

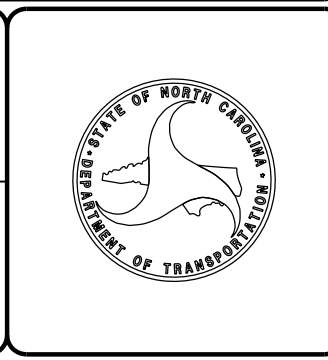
BRYAN E. HOUGH, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



22-AUG-2018 14:34 S:\EPD\RAleigh\Investigation\TIP\U5826_GEO_RDWY\CADD_GEO\TECH\PlanProf\U-5826_Rdy_tsh.dgn \$\$\$\$USERNAME\$\$\$\$



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

August 15, 2018

STATE PROJECT: 44398.1.1 (U-5826)
 FEDERAL PROJECT: N/A
 COUNTY: Wake
 DESCRIPTION: SR 2000 (Falls of Neuse Rd.) from I-540 to SR 2006 (Durant Rd.)
 SUBJECT: Geotechnical Report – Inventory

The Geotechnical Engineering Unit has completed a subsurface investigation for this project and presents the following inventory.

Project Description

This project consists of widening existing SR 2000 (-L-, Falls of Neuse Rd.) from just south of I-540 to approximately 700 feet north of SR 2006 (-Y8-, Durant Rd.).

A geotechnical investigation was conducted during June and July of 2018. A combination of 61 hand auger borings and 3 SPT borings were performed by the Geotechnical Engineering Unit. A track-mounted CME-55 drill machine was used to access and drill borings along the -RPC- alignment. Representative soil samples were collected for visual classification in the field and selected samples were submitted for laboratory analysis by the Materials and Tests Unit.

The following alignments, totaling 1.48 miles, were investigated. Subsurface plans and cross sections of these alignments are included in this report.

<u>Line</u>	<u>Stations</u>
-L-	13+00 to 75+76
-RPC-	15+26 to 21+87
-Y-	10+59 to 11+17
-Y1-	10+43 to 10+76
-Y2-	11+15 to 11+97
-Y3-	10+97 to 11+61
-Y4-	10+35 to 12+13
-Y5-	10+36 to 12+00
-Y10-	10+44 to 12+36

Mailing Address:
 NC DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING UNIT
 1589 MAIL SERVICE CENTER
 RALEIGH NC 27699-1589

Telephone: 919-707-6850
 Fax: 919-250-4237
 Customer Service: 1-877-368-4968

Website: www.ncdot.gov

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

Physiography and Geology

The project is located within the city limits of Raleigh, and within the Piedmont Physiographic Province. Geologically, the project is located within the Raleigh Belt consisting of lineated felsic mica gneiss and soils derived from the in-place weathering of these materials. The terrain is relatively flat to gently rolling within an urban area that is a mixture of businesses, single-family homes and woods.

Soils Properties

Soils encountered during this investigation are roadway embankment and residual.

Roadway Embankment soils are present along all existing roadways such as Falls of Neuse Road and I-540. These soils primarily consist of orange-brown, medium stiff to stiff, moderately to highly plastic, dry to moist silty and sandy clay with gravel (A-7-5, A-7-6 and A-6) with lesser amounts of orange-brown, medium dense to dense, dry to moist, clayey and silty sand with gravel (A-2-7, A-2-4).

Residual soils are also present along the entire project corridor. The majority of these soils are characterized by moderate to high plasticity, red to orange, dry to moist, stiff to very stiff, silty and sandy clay (A-7-5, A-7-6 and A-6) with lesser amounts of orange and red, medium dense to dense, moist, silty sand (A-2-4).

Groundwater

Groundwater measurements were taken in June and July of 2018 during average rainfall conditions. Groundwater was absent in most borings; however, groundwater was encountered at one location. The static water level in the boring at -L- Station 35+00, 56 feet right was 2.2 feet from the surface.

Areas of Special Geotechnical Interest

- 1) Highly Plastic Clays: Highly plastic clays (PI > 25) were encountered on the project at the following locations:

<u>Line</u>	<u>Stations</u>
-L-	13+00 to 55+25
-L-	62+25 to 71+75
-RPC-	15+26 to 21+25
-Y5-	10+36 to 12+00

- 2) High Groundwater: The following area exhibits groundwater within 6.0 feet of proposed grade:

<u>Line</u>	<u>Stations</u>	<u>Offsets</u>
-L-	35+00	56' RT

- 3) Water Wells: No water wells were noted within or in close proximity to the construction limits during this investigation.


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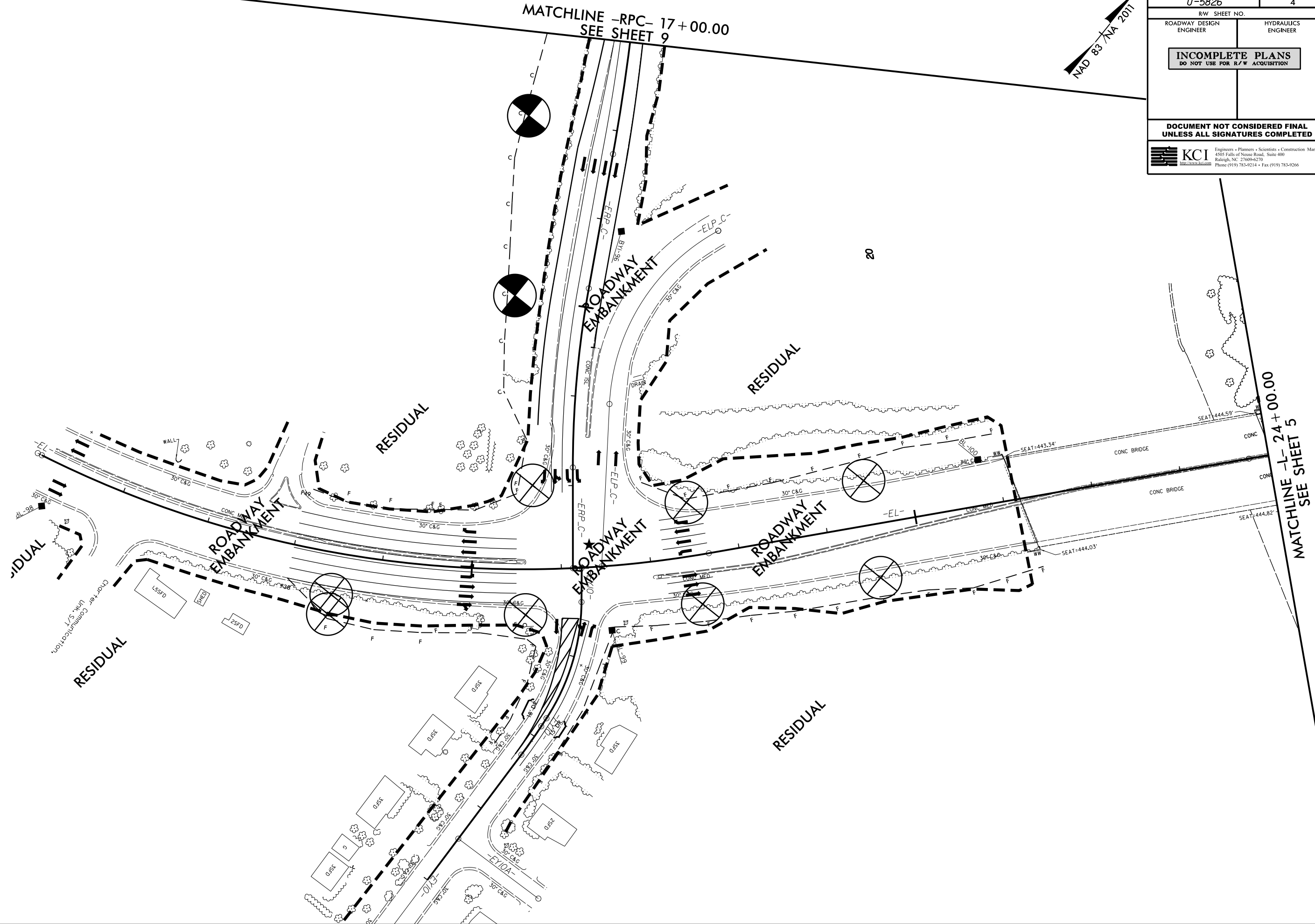
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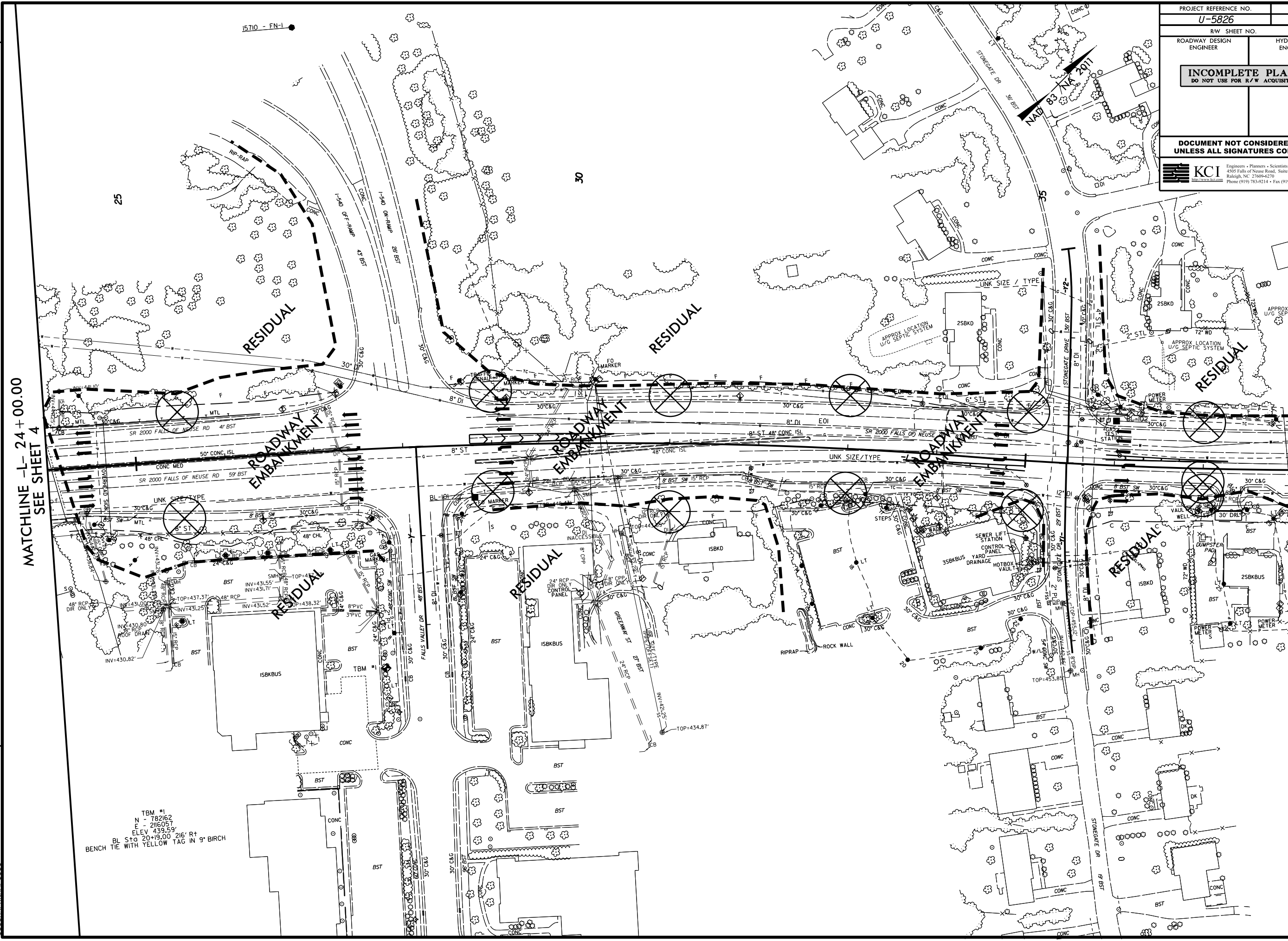
MATCHLINE -RPC- 17+00.00
SEE SHEET 9



PROJECT REFERENCE NO. U-5826	SHEET NO. 4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	



PROJECT REFERENCE NO. U-5826	SHEET NO. 5
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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MATCHLINE -L- 24 + 00.00
SEE SHEET 4

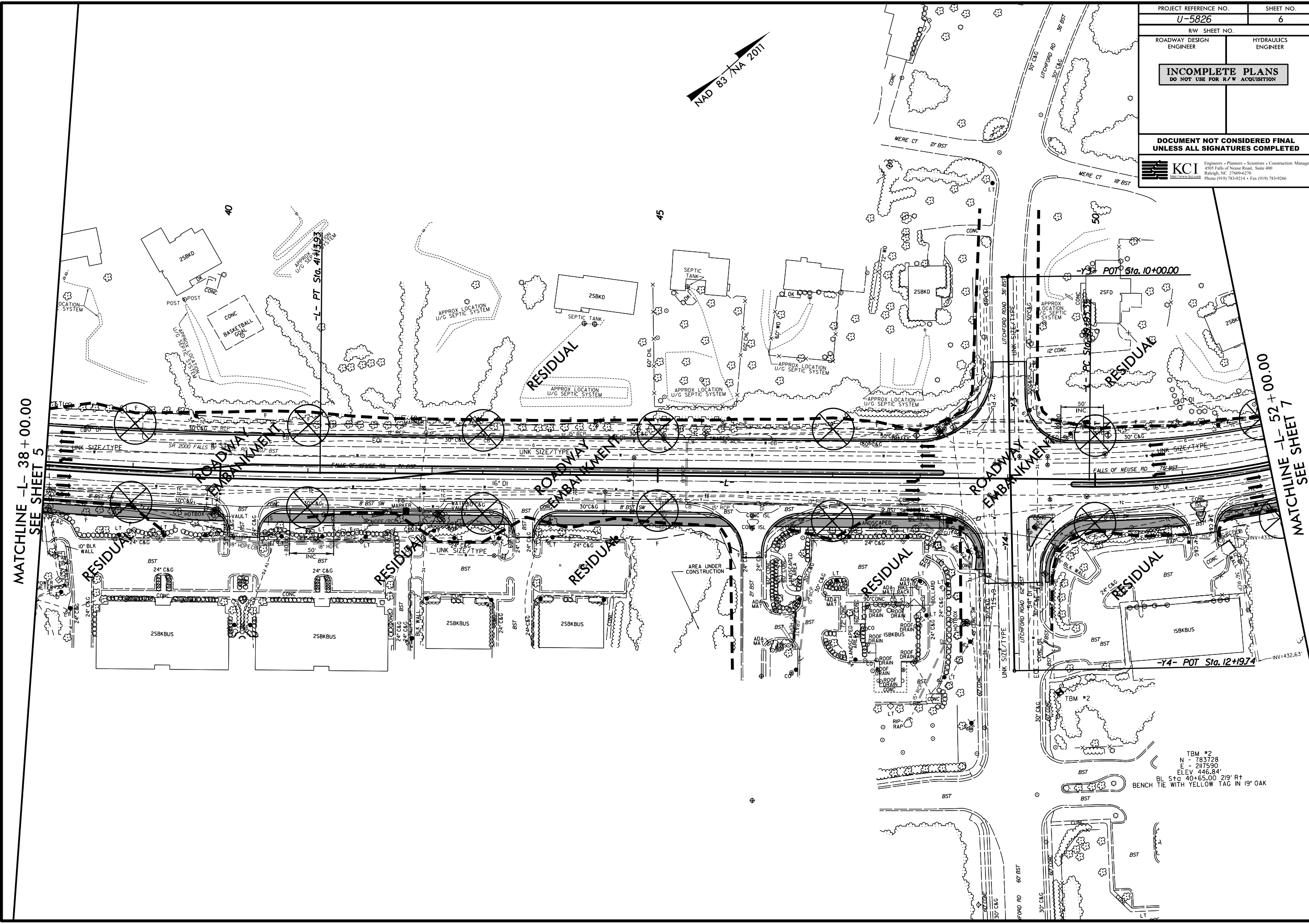
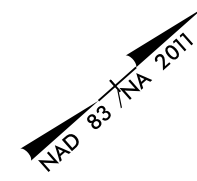
MATCHLINE -L- 38 + 00.00
SEE SHEET 6

TBM #1
 N = 782162
 E = 2116057
 ELEV 439.59'
 BL Sta 20+19.00 216' R+
 BENCH TIE WITH YELLOW TAG IN 9" BIRCH

REVISIONS

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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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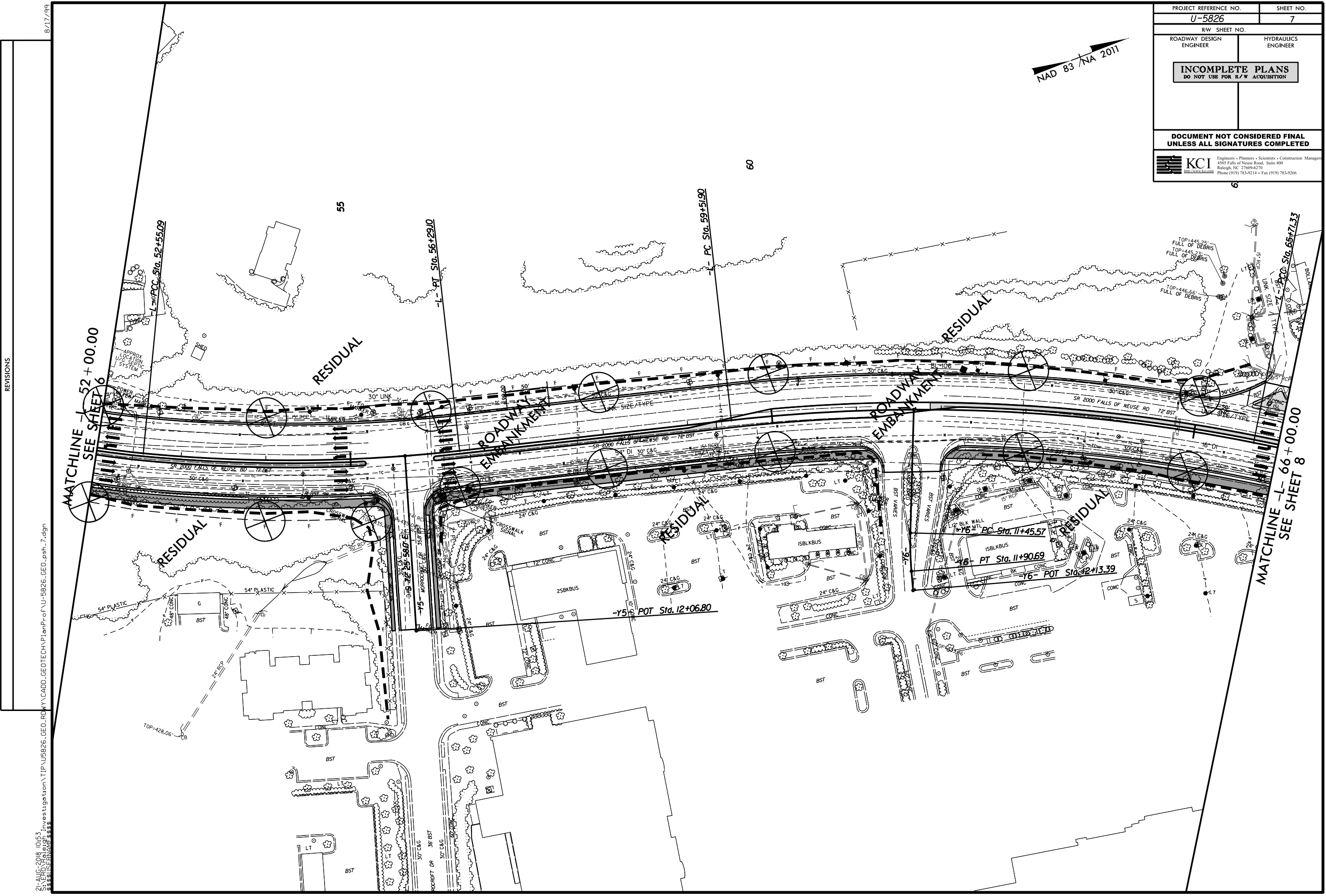
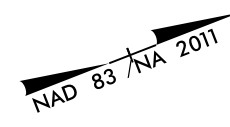
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TBM #2
N - 783728
E - 207590
ELEV 446.84'
BL Sta 40+65.00 219' Rt
BENCH TIE WITH YELLOW TAG IN 19' OAK

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MATCHLINE - SEE SHEET 6

MATCHLINE - SEE SHEET 8

REVISIONS

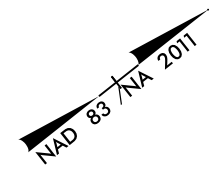
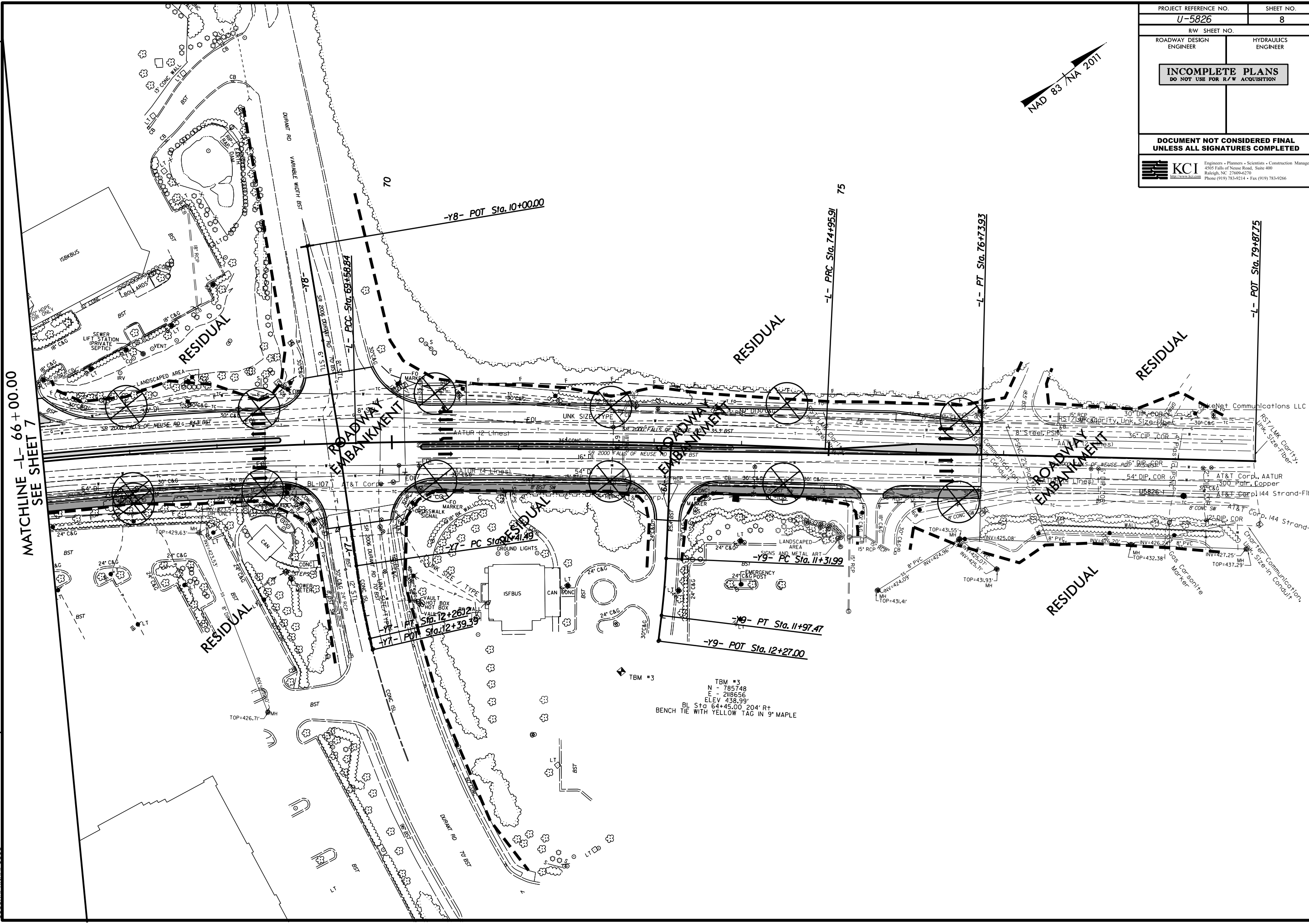
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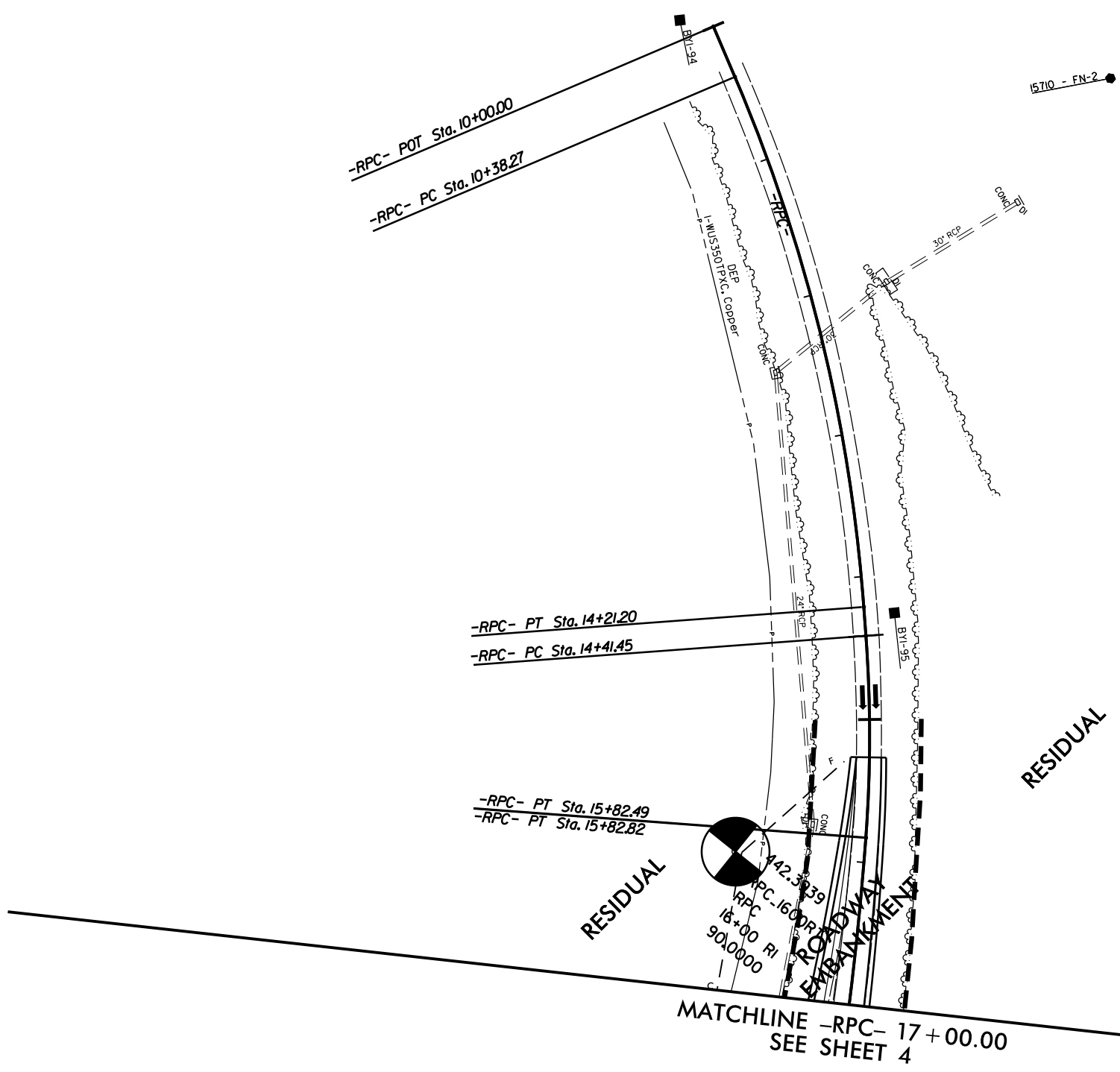
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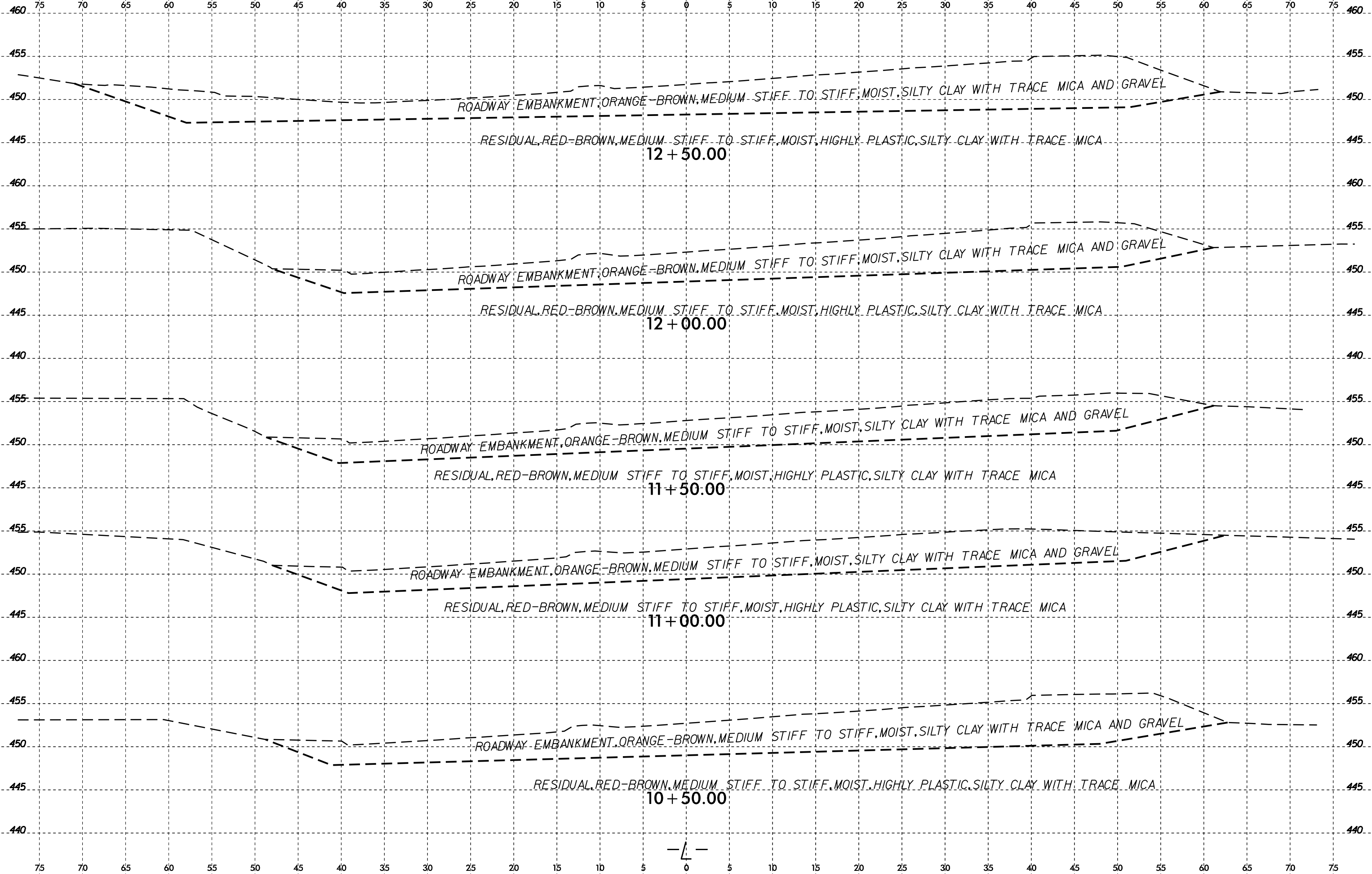
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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KCI <small>Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-4270 Phone (919) 783-9214 • Fax (919) 783-9266</small>	

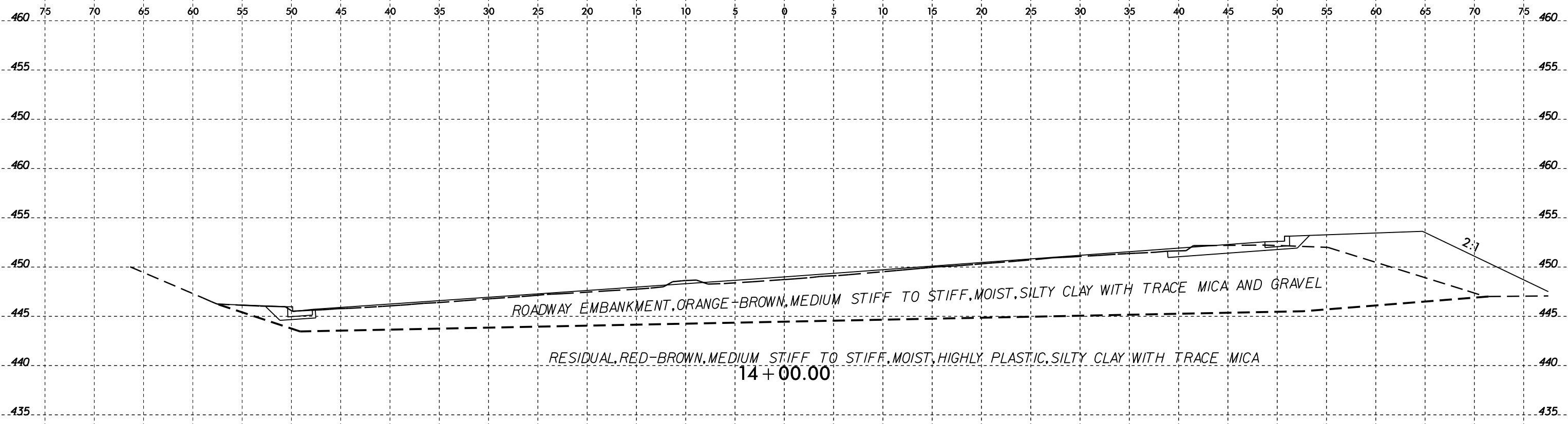
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REVISIONS

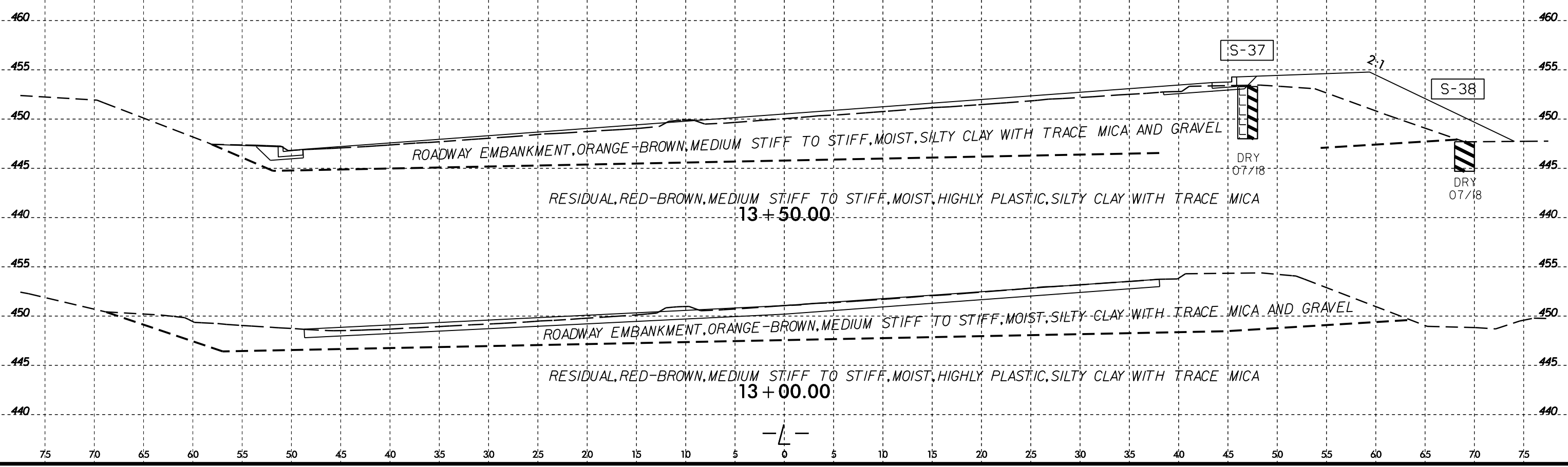
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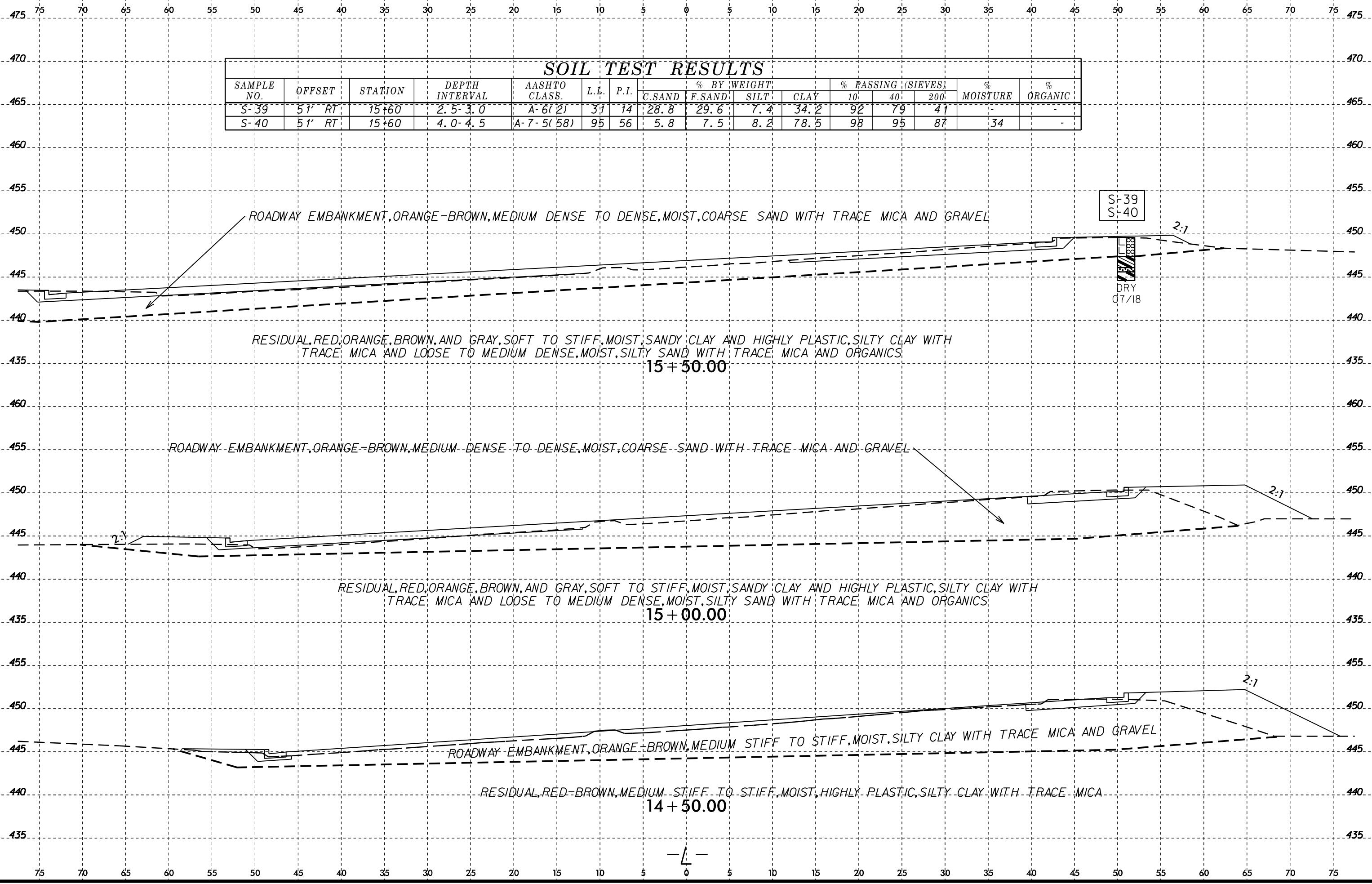


SOIL TEST RESULTS

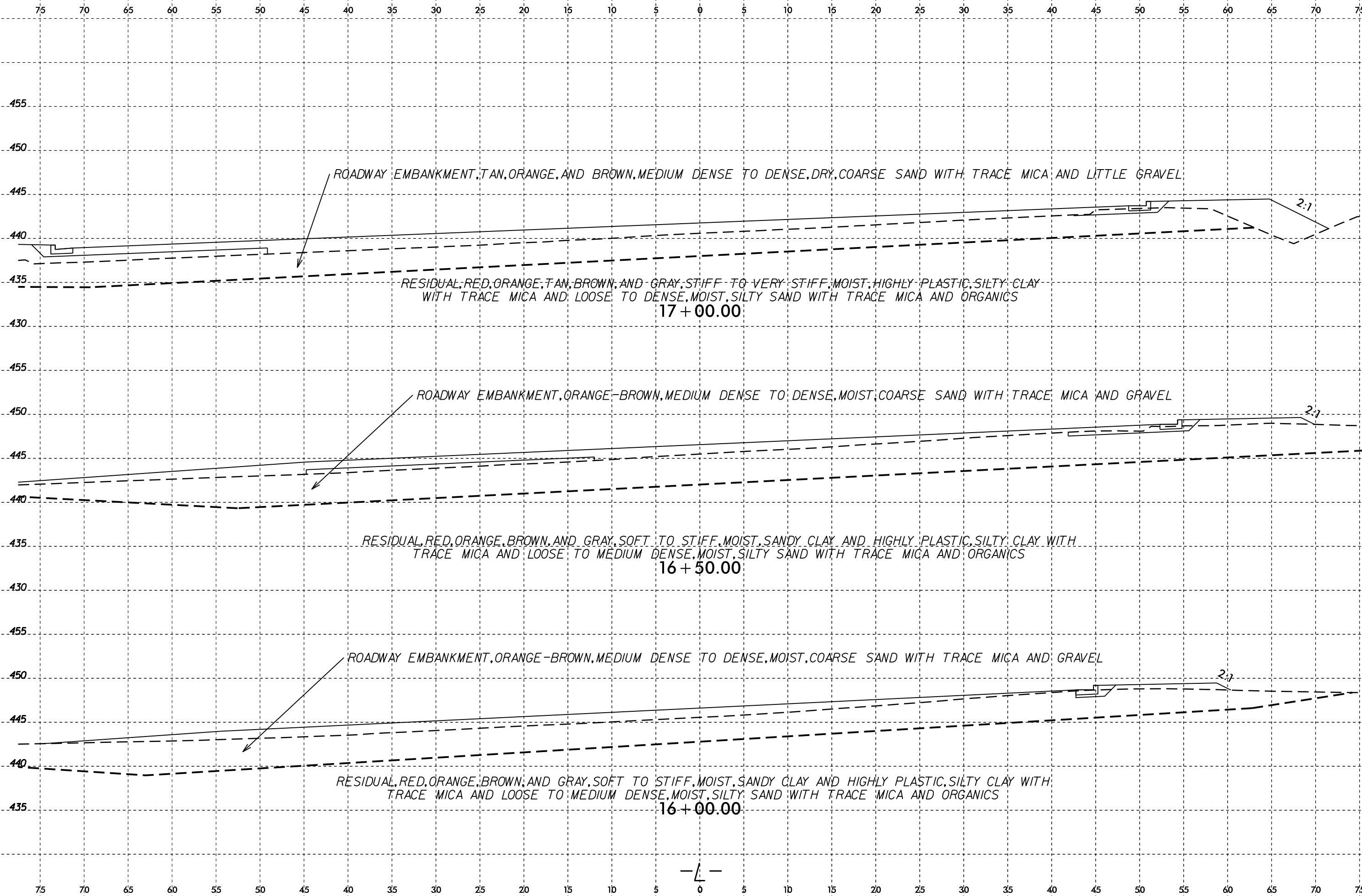
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-37	47' RT	13+50	0.5-1.0	A-7-5(17)	60	19	4.4	29.0	32.3	34.2	98	96	74	-	-
S-38	69' RT	13+50	0.5-1.0	A-7-5(18)	60	29	9.5	26.6	7.6	56.4	96	92	64	-	-



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-39	51' RT	15+60	2.5-3.0	A-6(2)	31	14	28.8	29.6	7.4	34.2	92	79	41	-	-
S-40	51' RT	15+60	4.0-4.5	A-7-5(58)	95	56	5.8	7.5	8.2	78.5	98	95	87	34	-



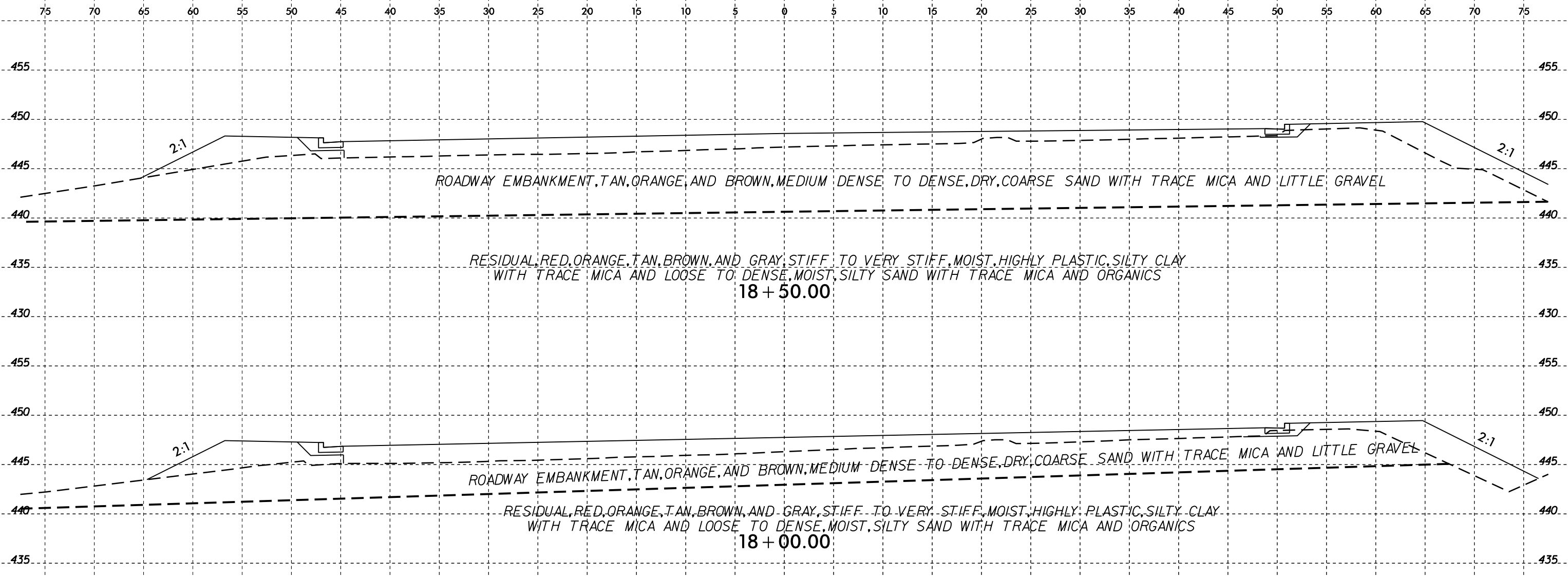
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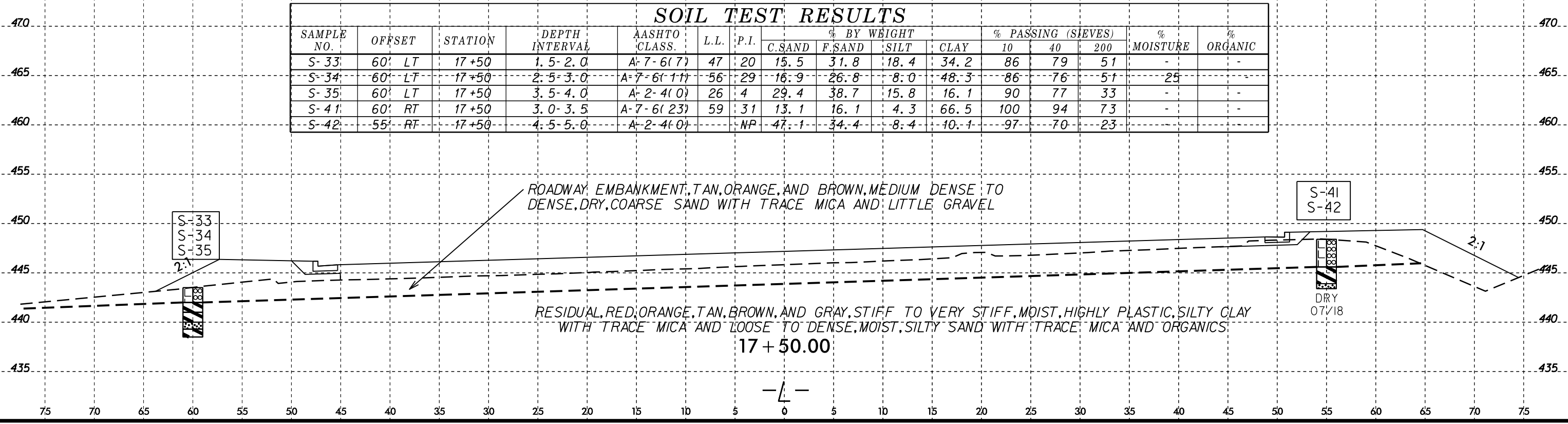


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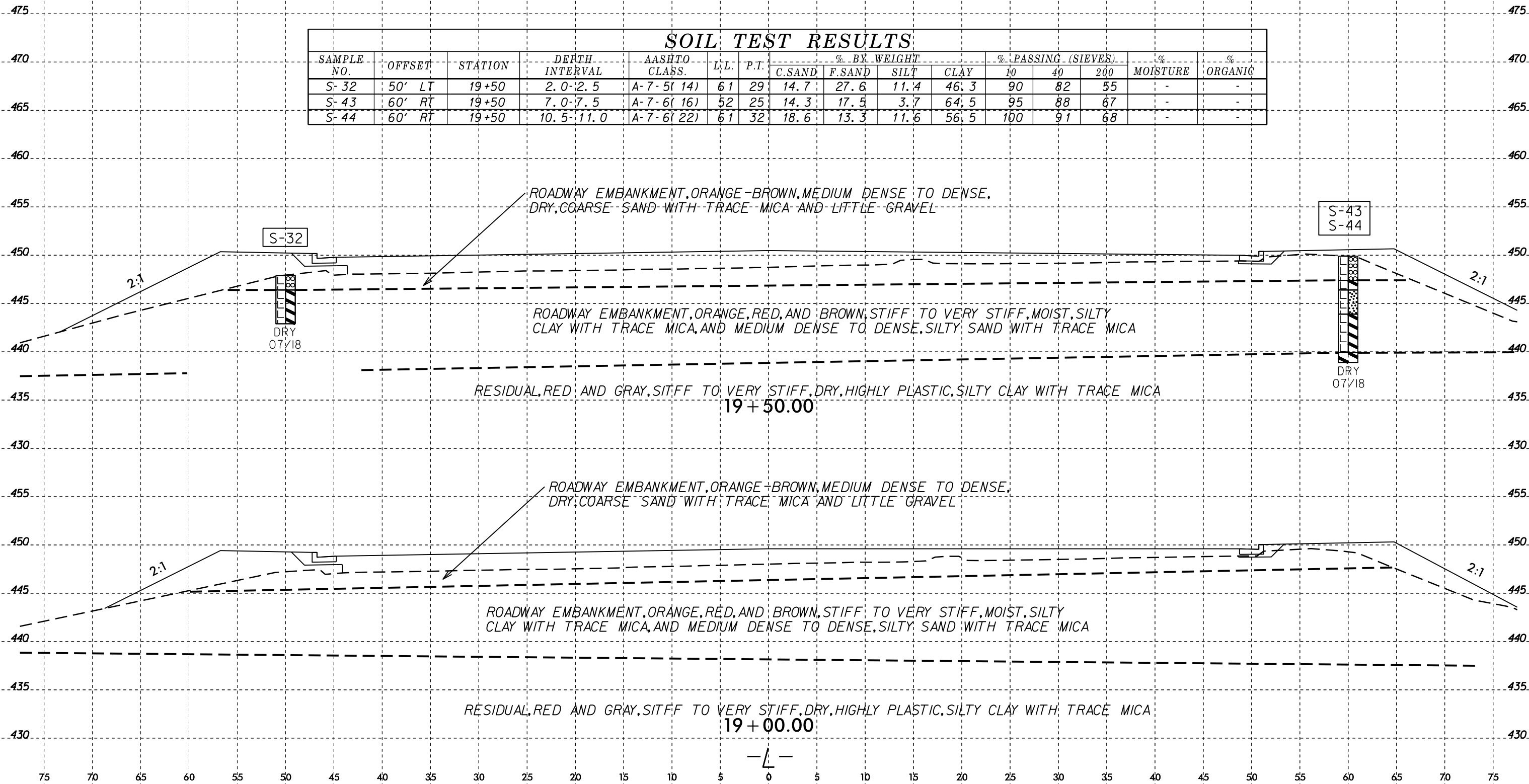


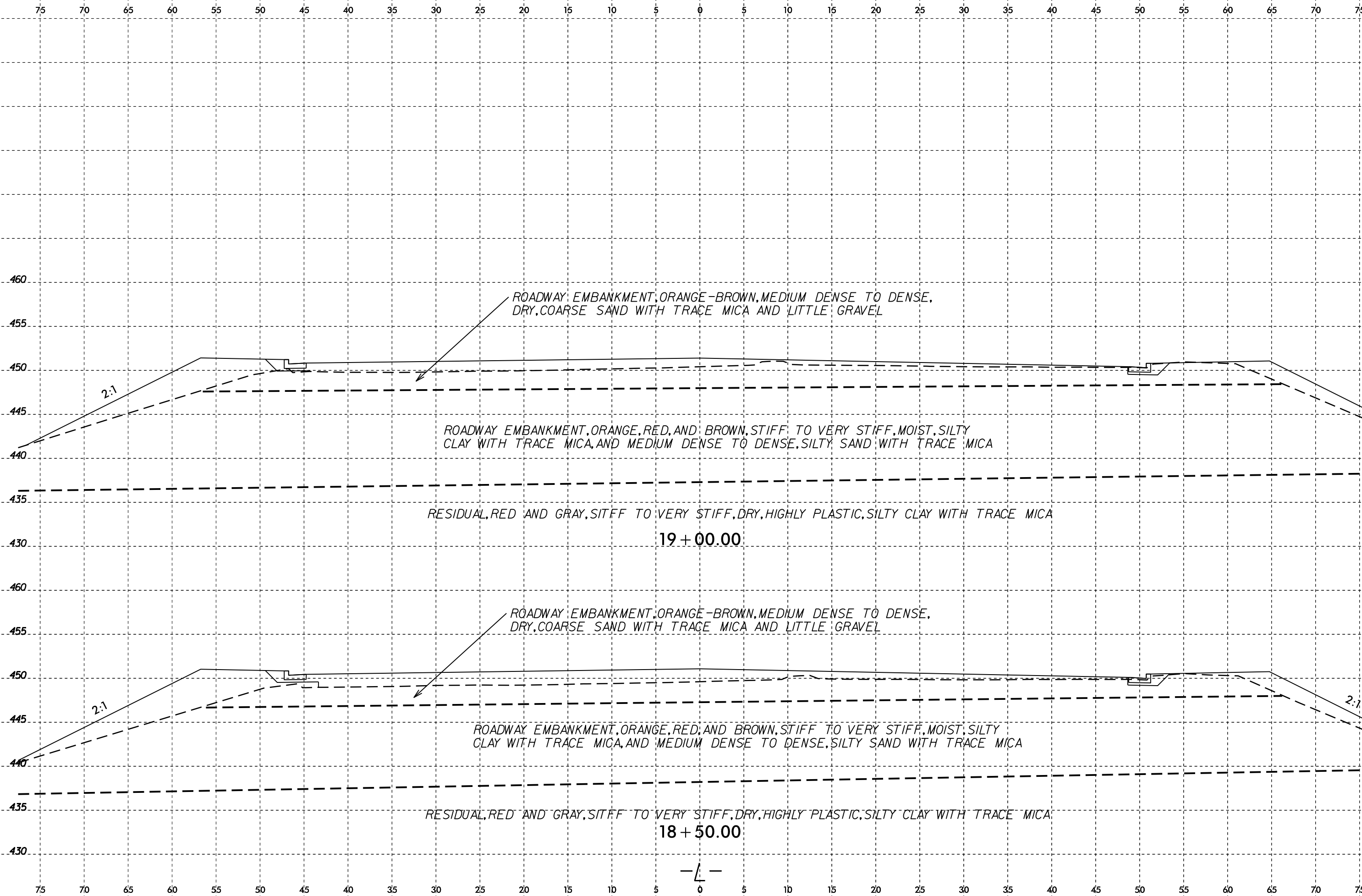
SOIL TEST RESULTS

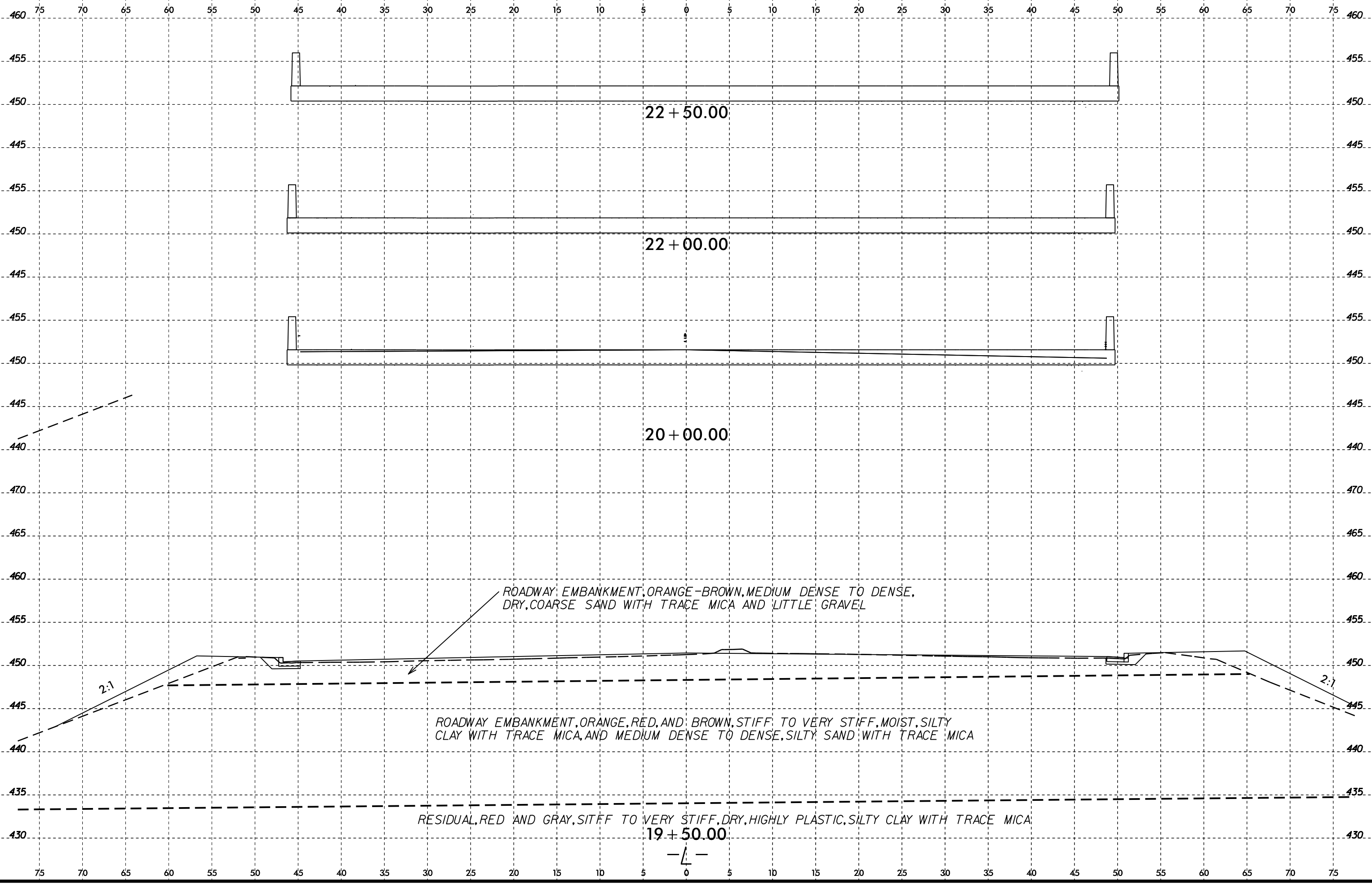
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-33	60' LT	17+50	1.5-2.0	A-7-6(7)	47	20	15.5	31.8	18.4	34.2	86	79	51	-	-
S-34	60' LT	17+50	2.5-3.0	A-7-6(11)	56	29	16.9	26.8	8.0	48.3	86	76	51	25	-
S-35	60' LT	17+50	3.5-4.0	A-2-4(0)	26	4	29.4	38.7	15.8	16.1	90	77	33	-	-
S-41	60' RT	17+50	3.0-3.5	A-7-6(23)	59	31	13.1	16.1	4.3	66.5	100	94	73	-	-
S-42	55' RT	17+50	4.5-5.0	A-2-4(0)	-	NP	47.1	34.4	8.4	10.1	97	70	23	-	-

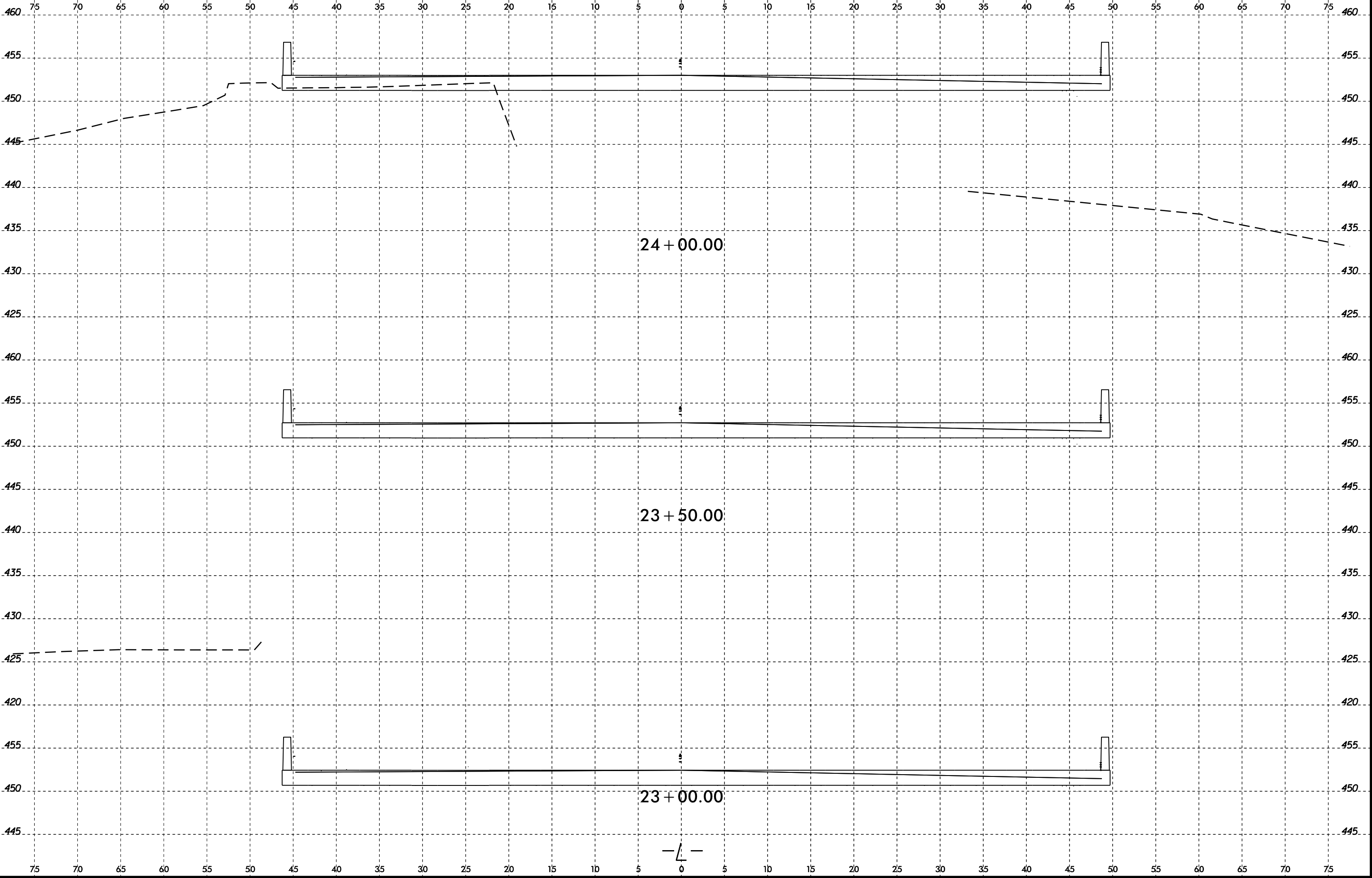


SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.T.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-32	50' LT	19+50	2.0-2.5	A-7-5(14)	61	29	14.7	27.6	11.4	46.3	90	82	55	-	-
S-43	60' RT	19+50	7.0-7.5	A-7-6(16)	52	25	14.3	17.5	3.7	64.5	95	88	67	-	-
S-44	60' RT	19+50	10.5-11.0	A-7-6(22)	61	32	18.6	13.3	11.6	56.5	100	91	68	-	-

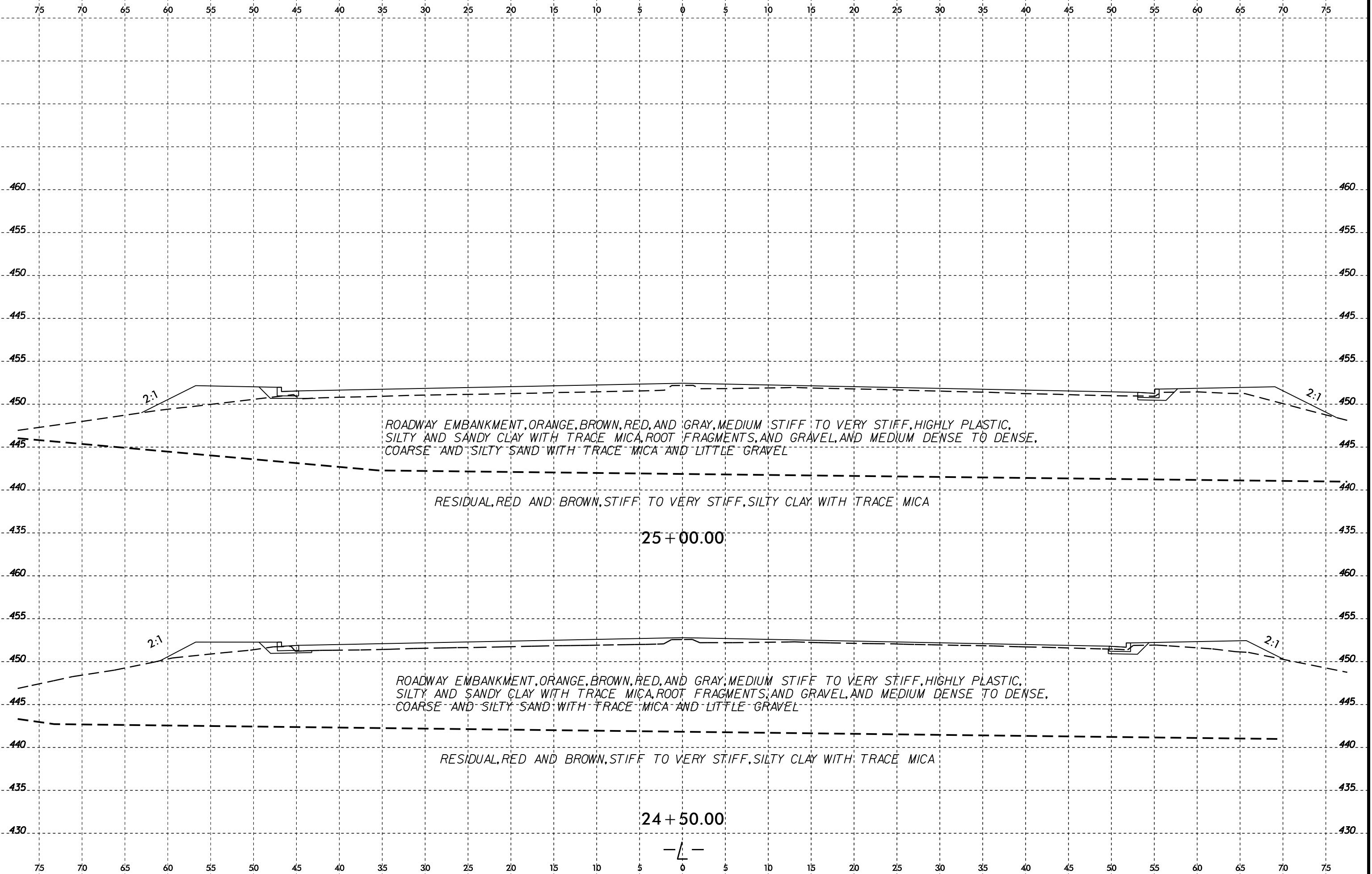




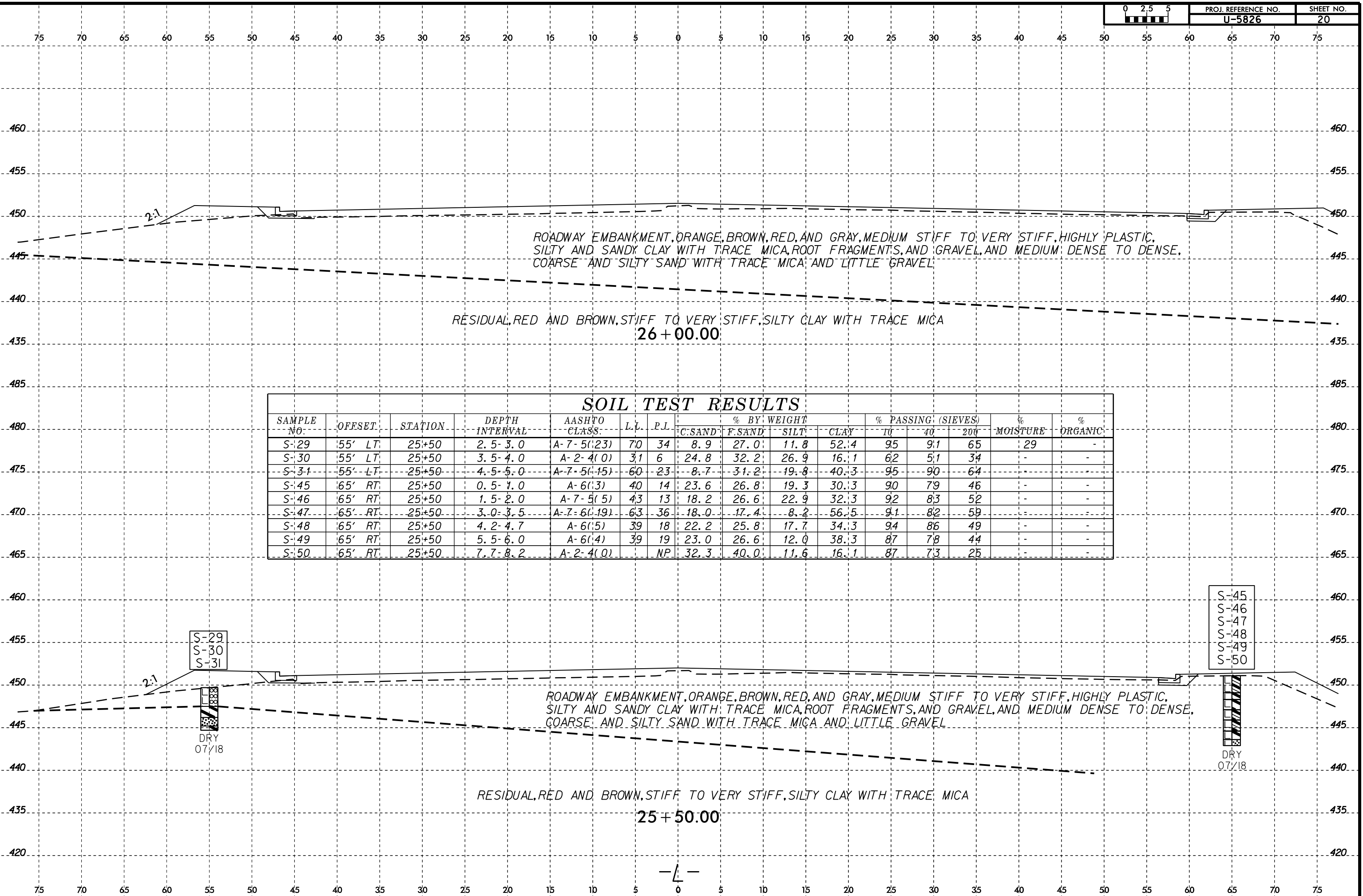




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ROADWAY EMBANKMENT, ORANGE, BROWN, RED, AND GRAY, MEDIUM STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY AND SANDY CLAY WITH TRACE MICA, ROOT FRAGMENTS, AND GRAVEL, AND MEDIUM DENSE TO DENSE, COARSE AND SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL

RESIDUAL, RED AND BROWN, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA
 26 + 00.00

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-29	55' LT	25+50	2.5-3.0	A-7-5(23)	70	34	8.9	27.0	11.8	52.4	95	91	65	29	-
S-30	55' LT	25+50	3.5-4.0	A-2-4(0)	31	6	24.8	32.2	26.9	16.1	62	51	34	-	-
S-31	55' LT	25+50	4.5-5.0	A-7-5(15)	60	23	8.7	31.2	19.8	40.3	95	90	64	-	-
S-45	65' RT	25+50	0.5-1.0	A-6(3)	40	14	23.6	26.8	19.3	30.3	90	79	46	-	-
S-46	65' RT	25+50	1.5-2.0	A-7-5(5)	43	13	18.2	26.6	22.9	32.3	92	83	52	-	-
S-47	65' RT	25+50	3.0-3.5	A-7-6(19)	63	36	18.0	17.4	8.2	56.5	91	82	59	-	-
S-48	65' RT	25+50	4.2-4.7	A-6(15)	39	18	22.2	25.8	17.7	34.3	94	86	49	-	-
S-49	65' RT	25+50	5.5-6.0	A-6(4)	39	19	23.0	26.6	12.0	38.3	87	78	44	-	-
S-50	65' RT	25+50	7.7-8.2	A-2-4(0)		NP	32.3	40.0	11.6	16.1	87	73	25	-	-

ROADWAY EMBANKMENT, ORANGE, BROWN, RED, AND GRAY, MEDIUM STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY AND SANDY CLAY WITH TRACE MICA, ROOT FRAGMENTS, AND GRAVEL, AND MEDIUM DENSE TO DENSE, COARSE AND SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL

RESIDUAL, RED AND BROWN, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA
 25 + 50.00

S-29
 S-30
 S-31
 DRY
 07/18

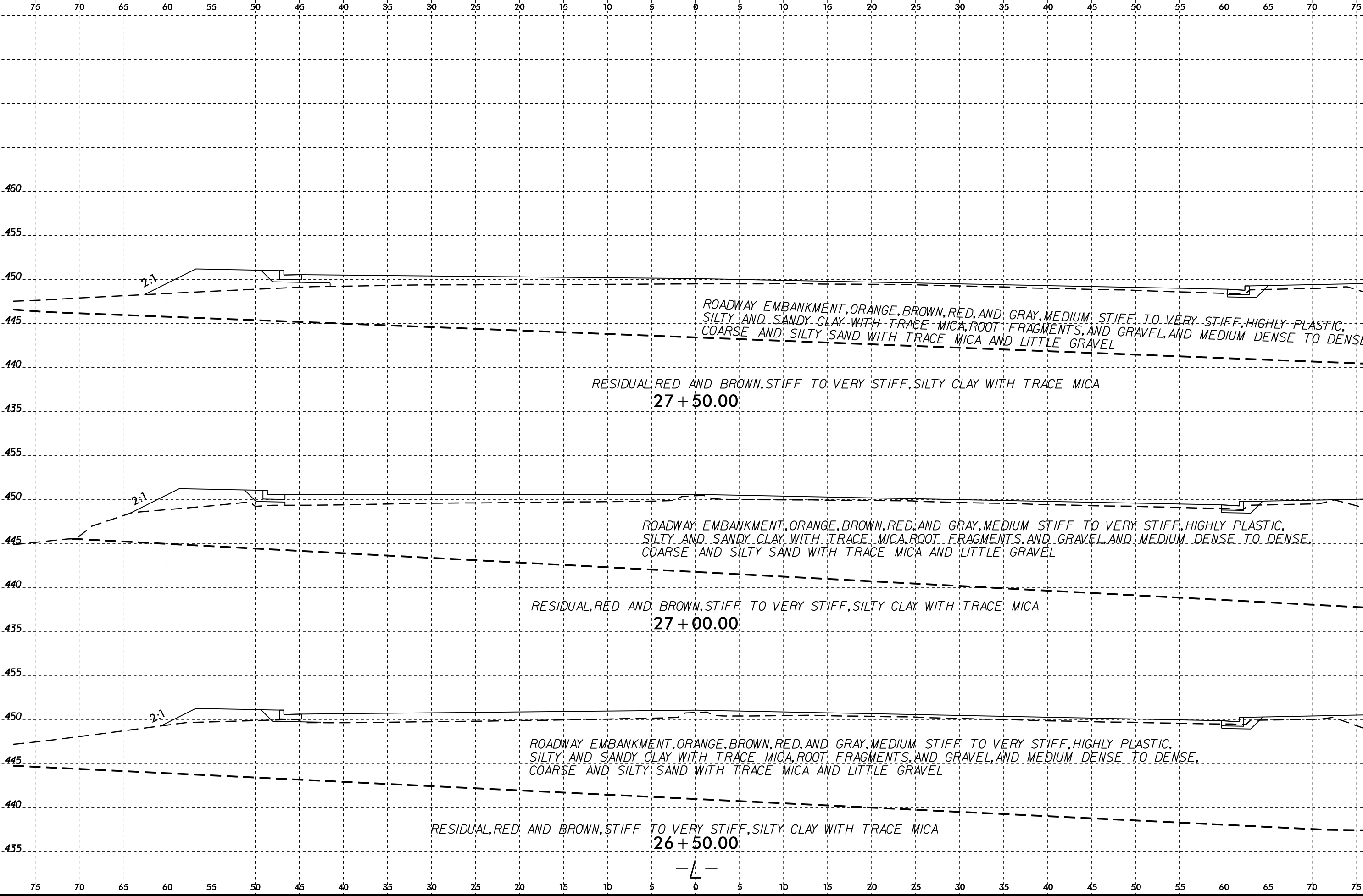
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 S-46
 S-47
 S-48
 S-49
 S-50
 DRY
 07/18

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PROJ. REFERENCE NO.
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SHEET NO.
21



ROADWAY EMBANKMENT, ORANGE, BROWN, RED, AND GRAY, MEDIUM STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY AND SANDY CLAY WITH TRACE MICA, ROOT FRAGMENTS, AND GRAVEL, AND MEDIUM DENSE TO DENSE, COARSE AND SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL

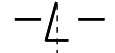
RESIDUAL, RED AND BROWN, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA
27 + 50.00

ROADWAY EMBANKMENT, ORANGE, BROWN, RED, AND GRAY, MEDIUM STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY AND SANDY CLAY WITH TRACE MICA, ROOT FRAGMENTS, AND GRAVEL, AND MEDIUM DENSE TO DENSE, COARSE AND SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL

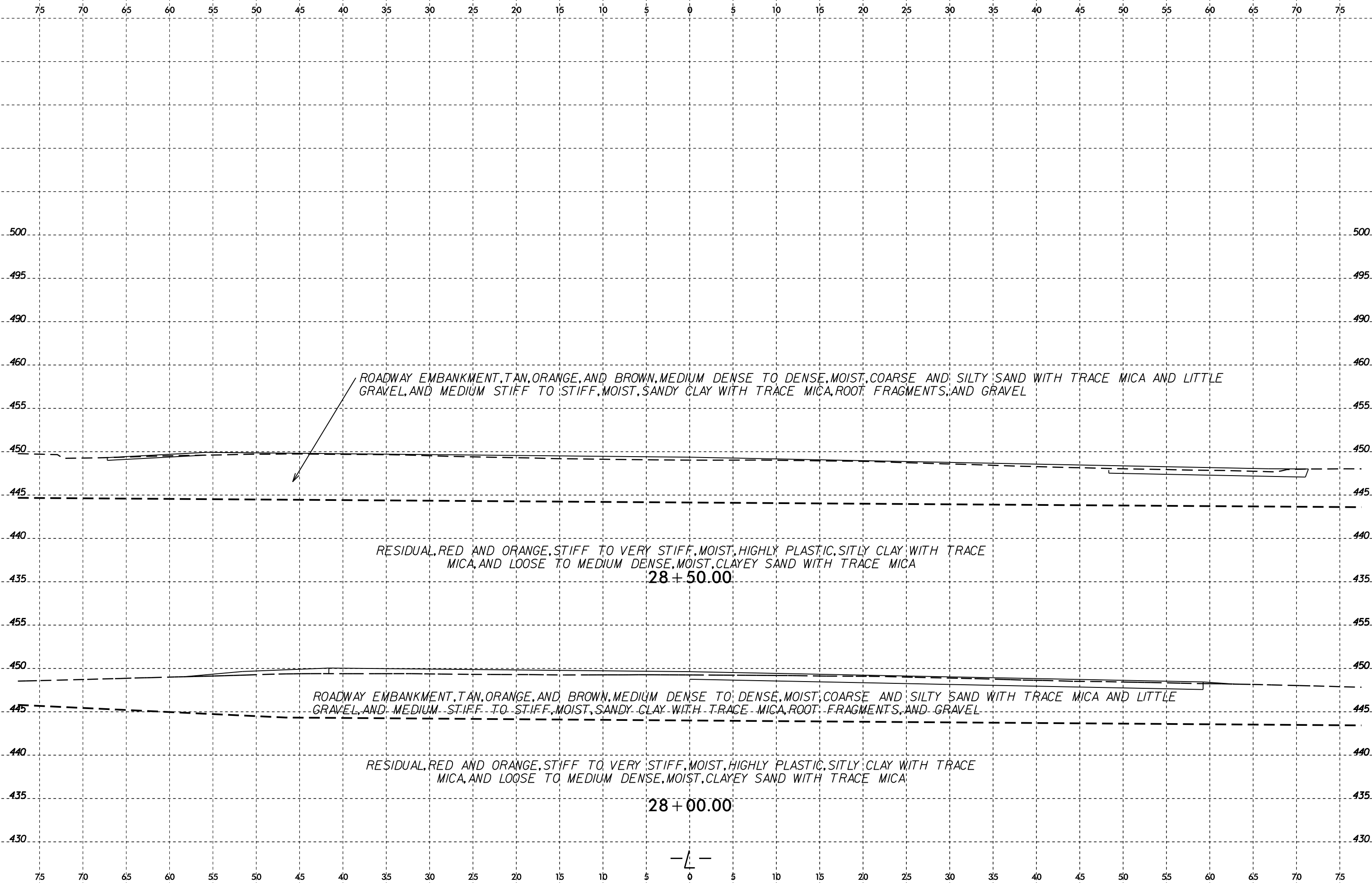
RESIDUAL, RED AND BROWN, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA
27 + 00.00

ROADWAY EMBANKMENT, ORANGE, BROWN, RED, AND GRAY, MEDIUM STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY AND SANDY CLAY WITH TRACE MICA, ROOT FRAGMENTS, AND GRAVEL, AND MEDIUM DENSE TO DENSE, COARSE AND SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL

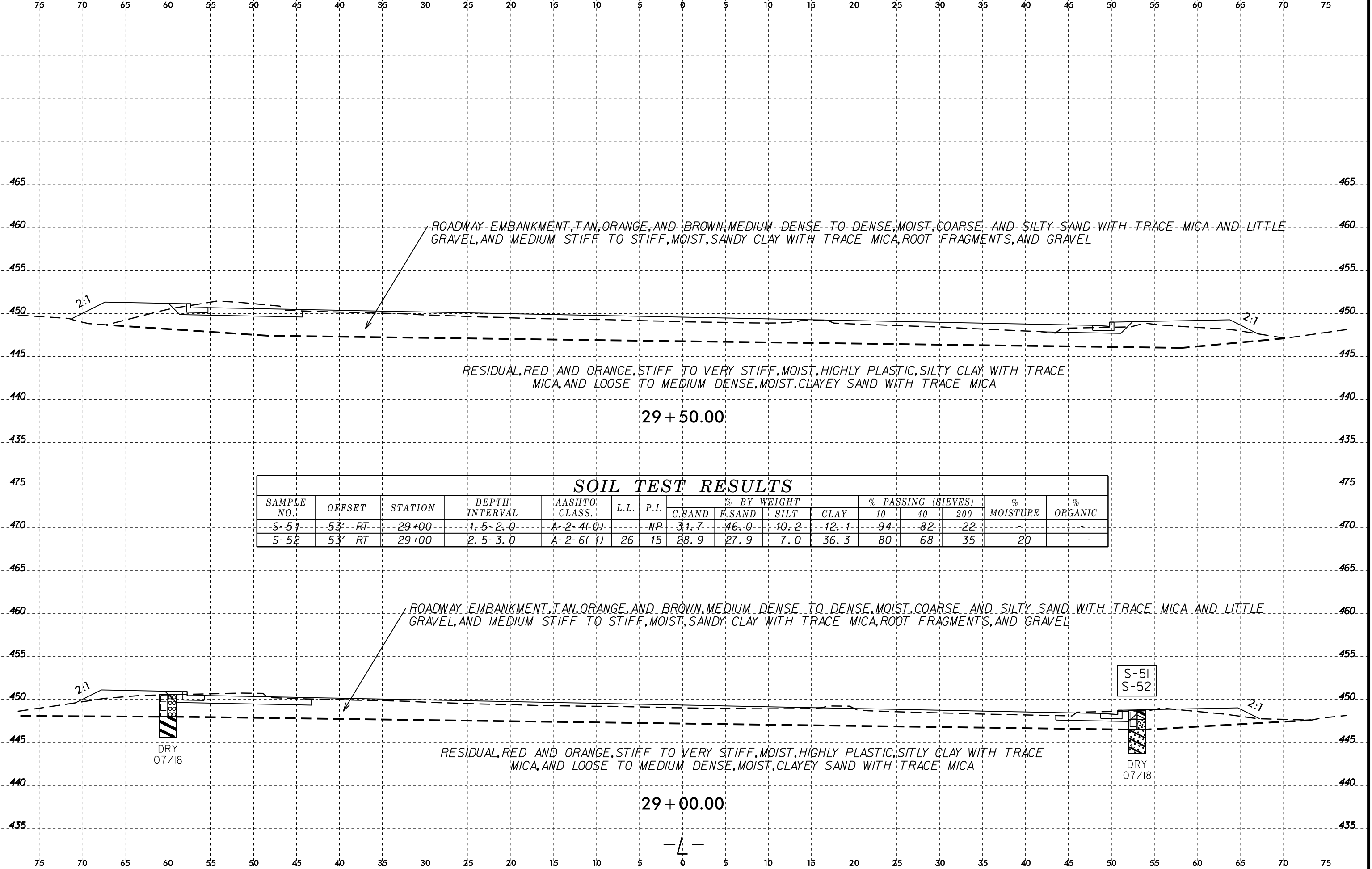
RESIDUAL, RED AND BROWN, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA
26 + 50.00



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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-51	53' RT	29+00	1.5-2.0	A-2-4(0)	NP		31.7	46.0	10.2	12.1	94	82	22			
S-52	53' RT	29+00	2.5-3.0	A-2-6(1)	26	15	28.9	27.9	7.0	36.3	80	68	35	20	-	

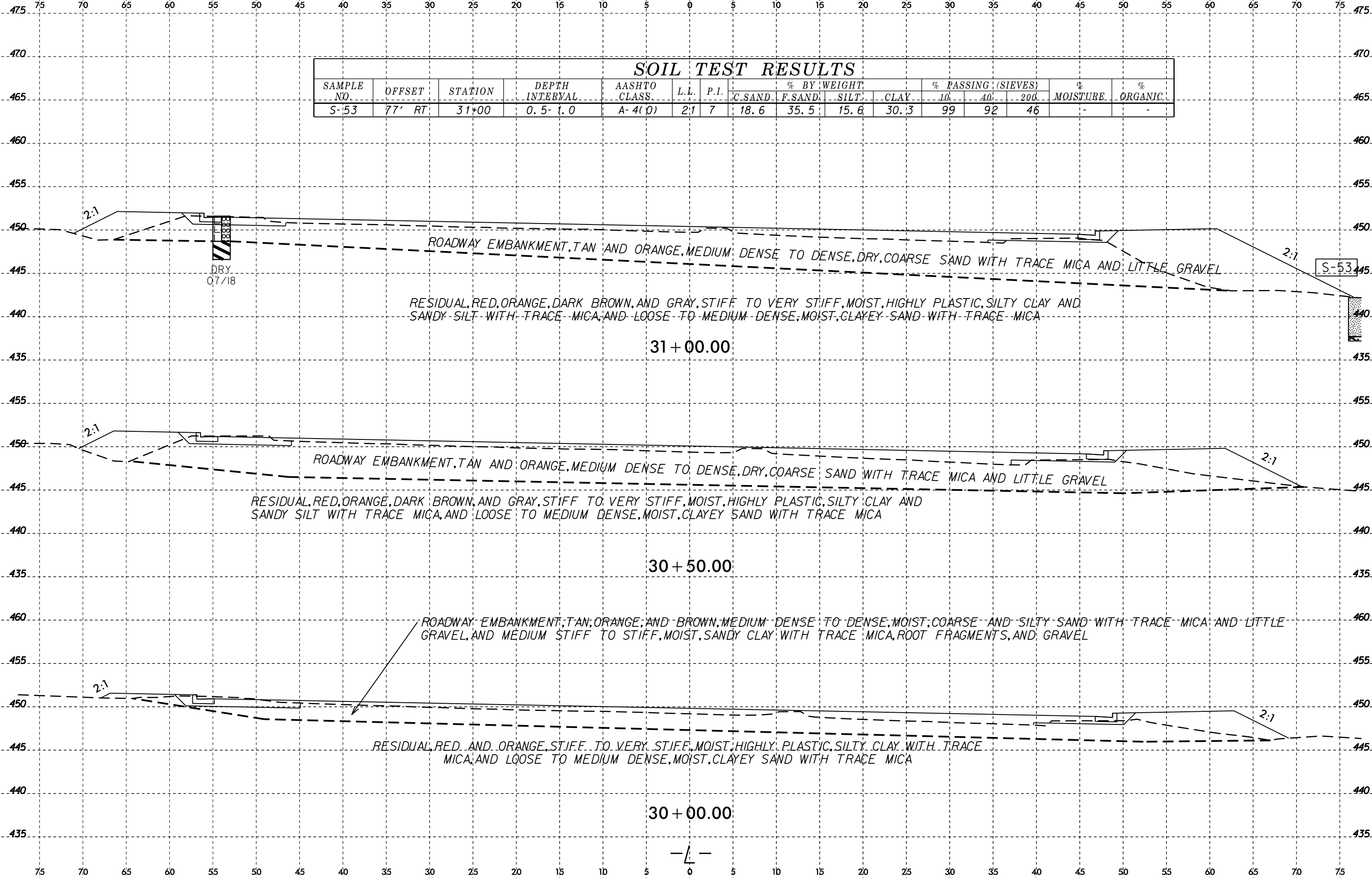
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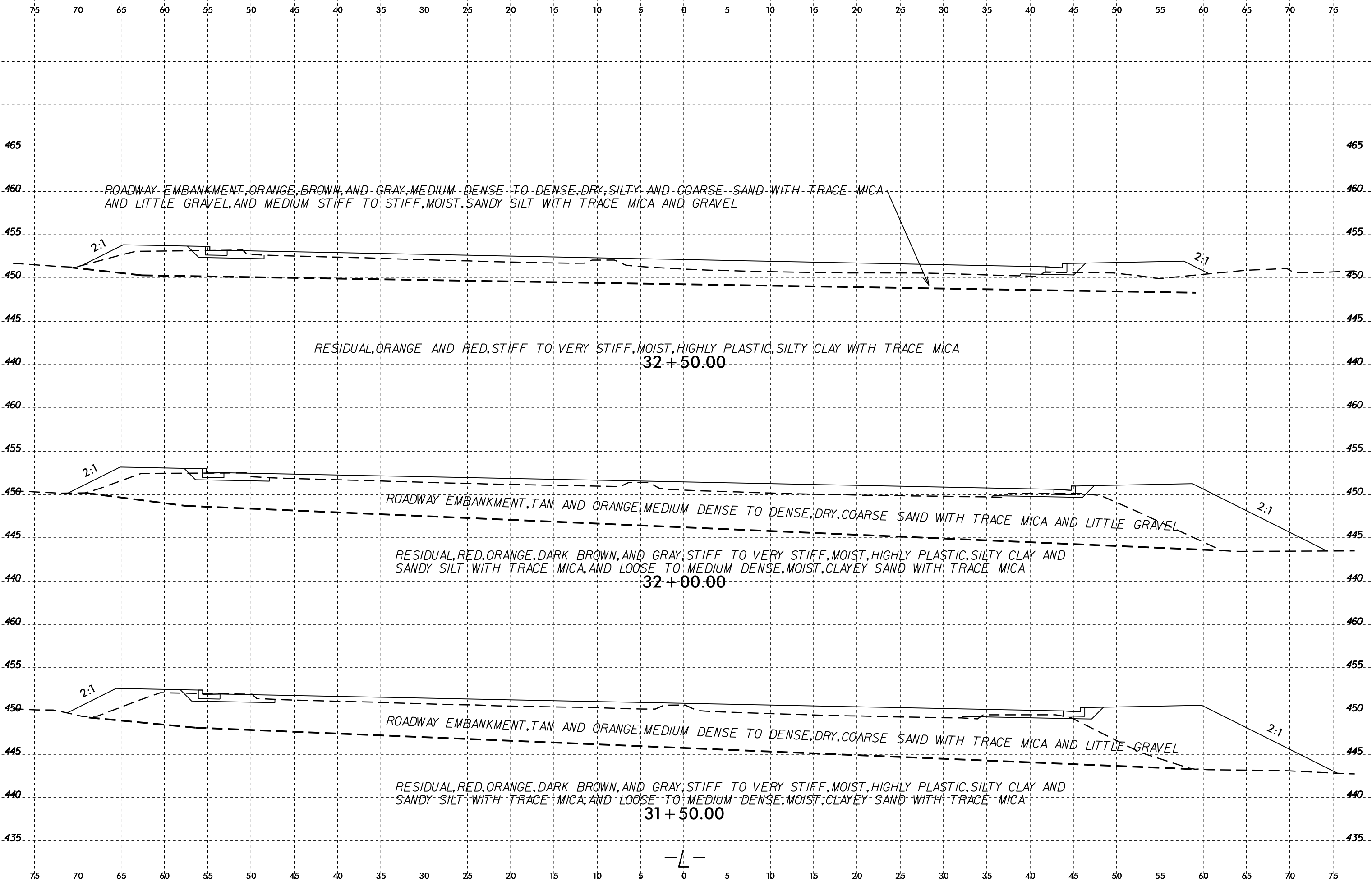
S-51
S-52

DRY
07/18

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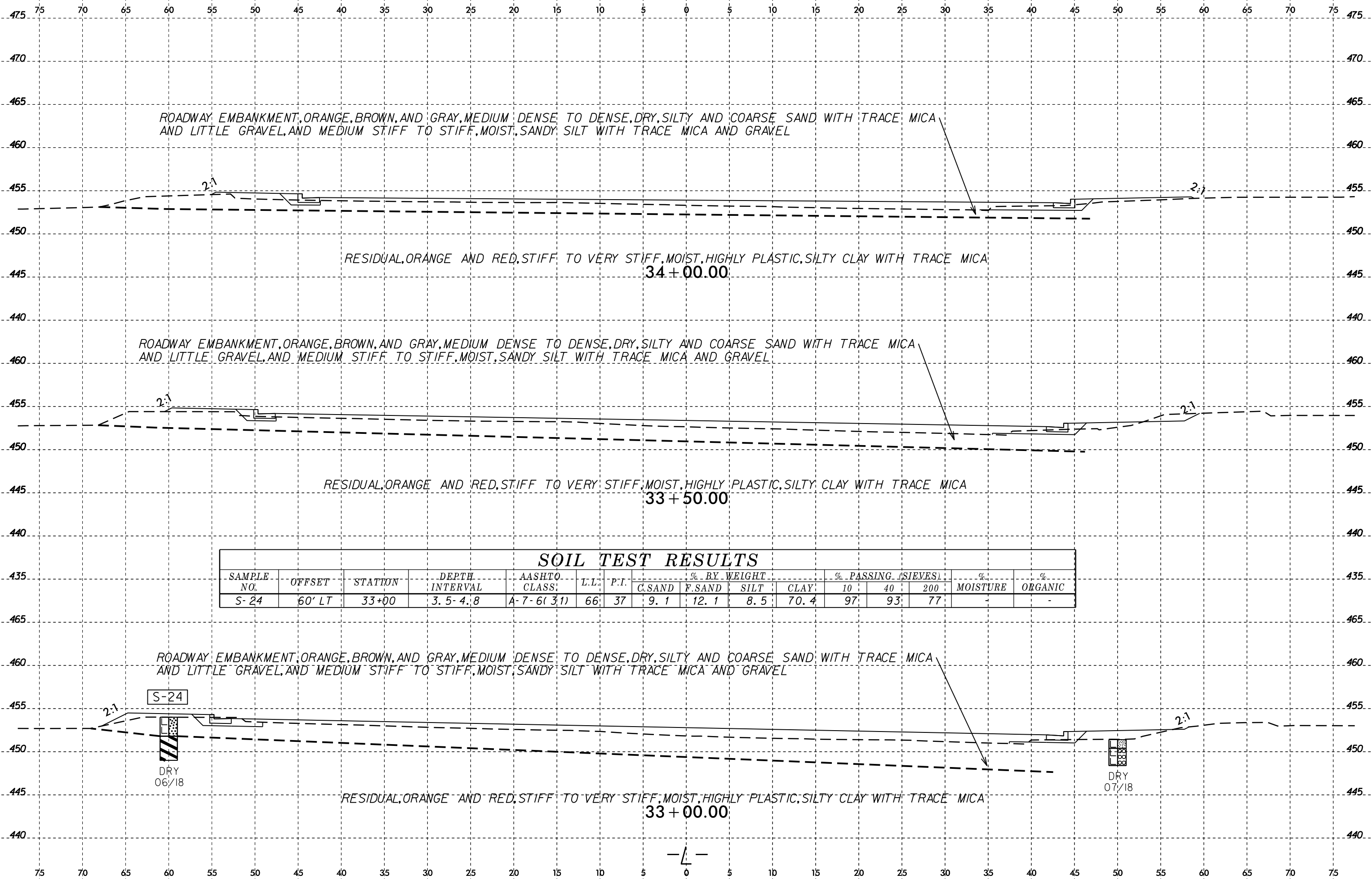
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-53	77' RT	31+00	0.5-1.0	A-4(0)	21	7	18.6	35.5	15.6	30.3	99	92	46	-	-



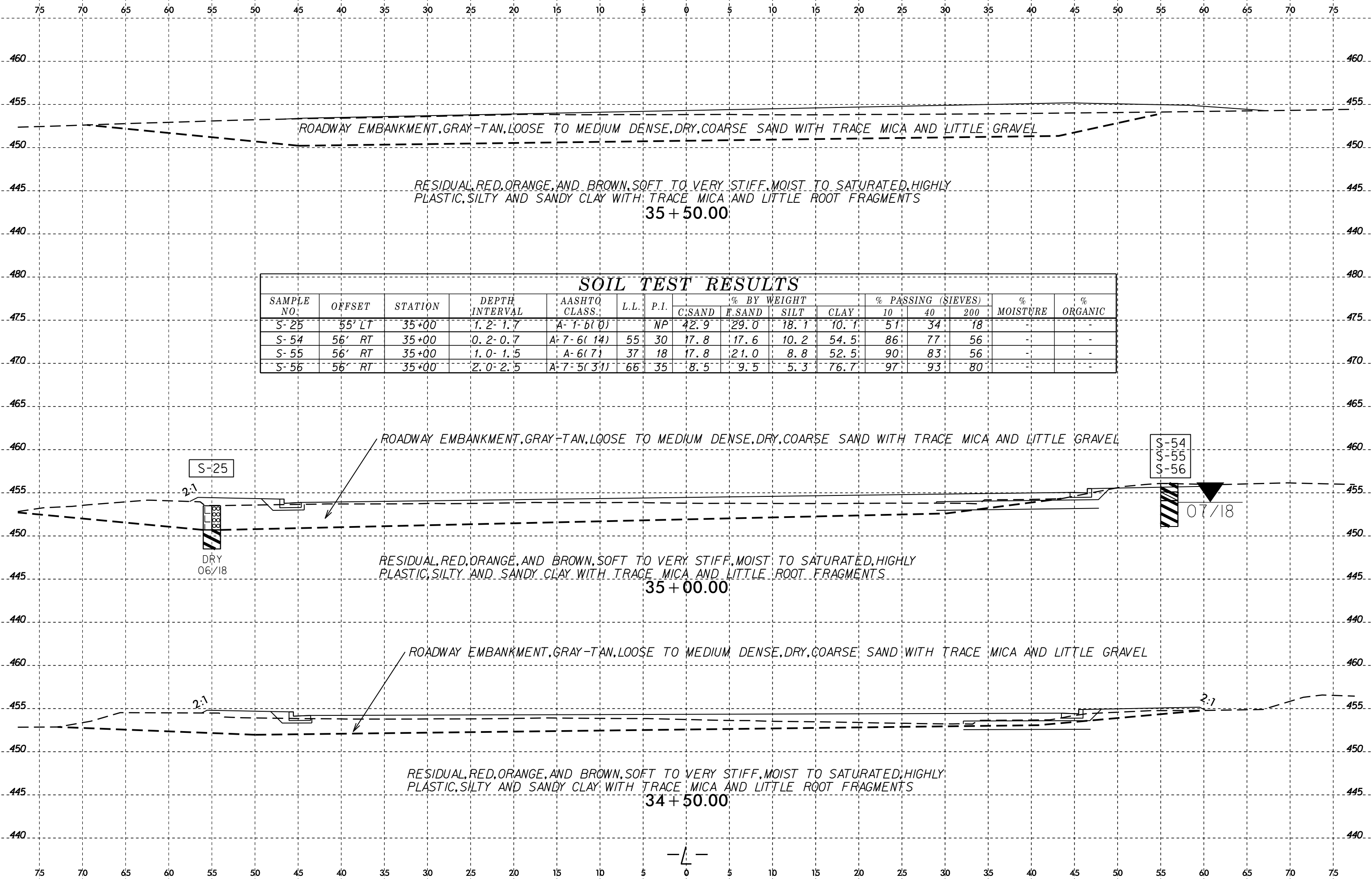


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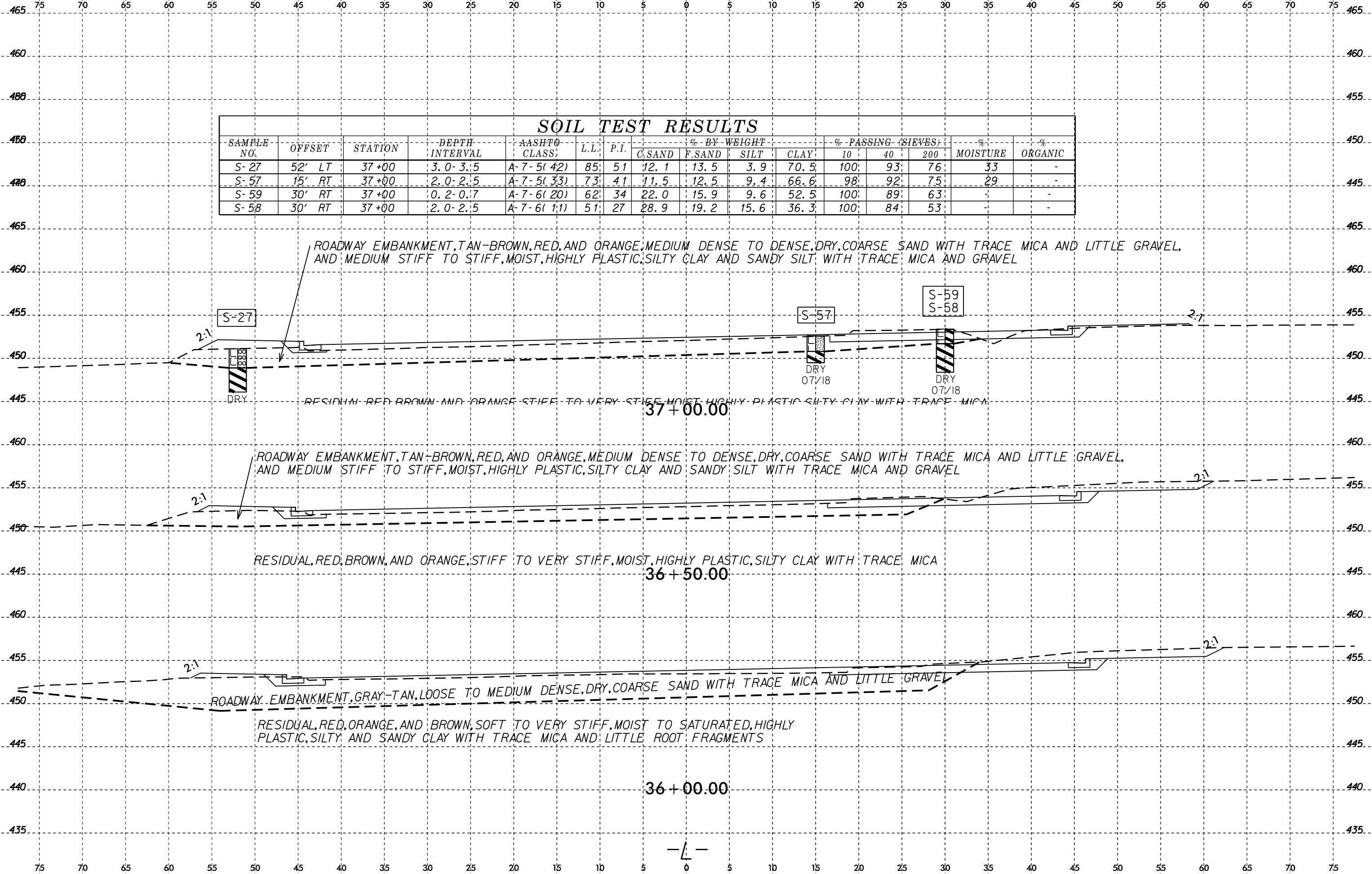


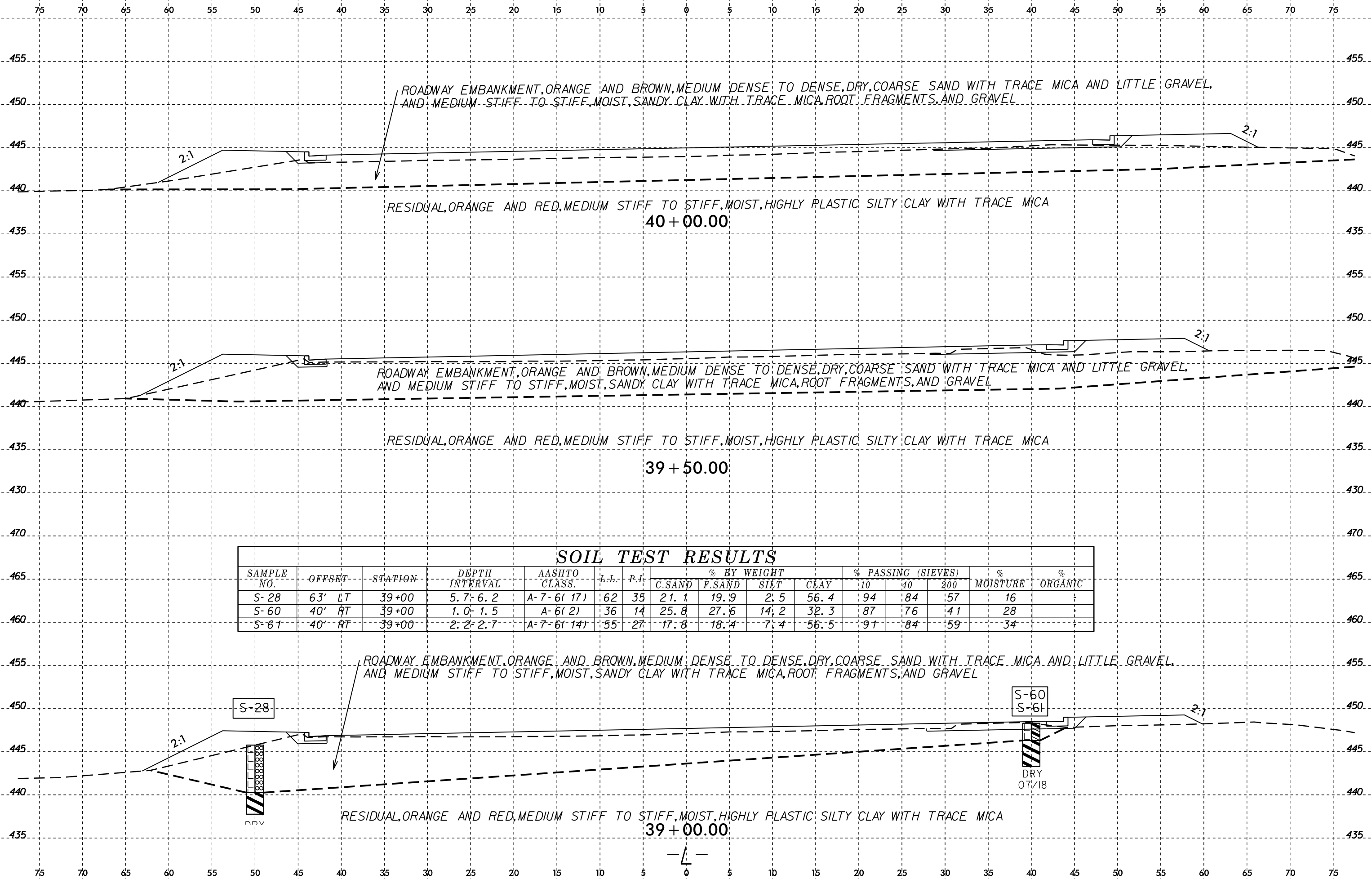
SOIL TEST RESULTS

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-25	55' LT	35+00	1.2-1.7	A-1-b(0)		NP	42.9	29.0	18.1	10.1	51	34	18	-	-
S-54	56' RT	35+00	0.2-0.7	A-7-6(14)	55	30	17.8	17.6	10.2	54.5	86	77	56	-	-
S-55	56' RT	35+00	1.0-1.5	A-6(7)	37	18	17.8	21.0	8.8	52.5	90	83	56	-	-
S-56	56' RT	35+00	2.0-2.5	A-7-5(31)	66	35	8.5	9.5	5.3	76.7	97	93	80	-	-

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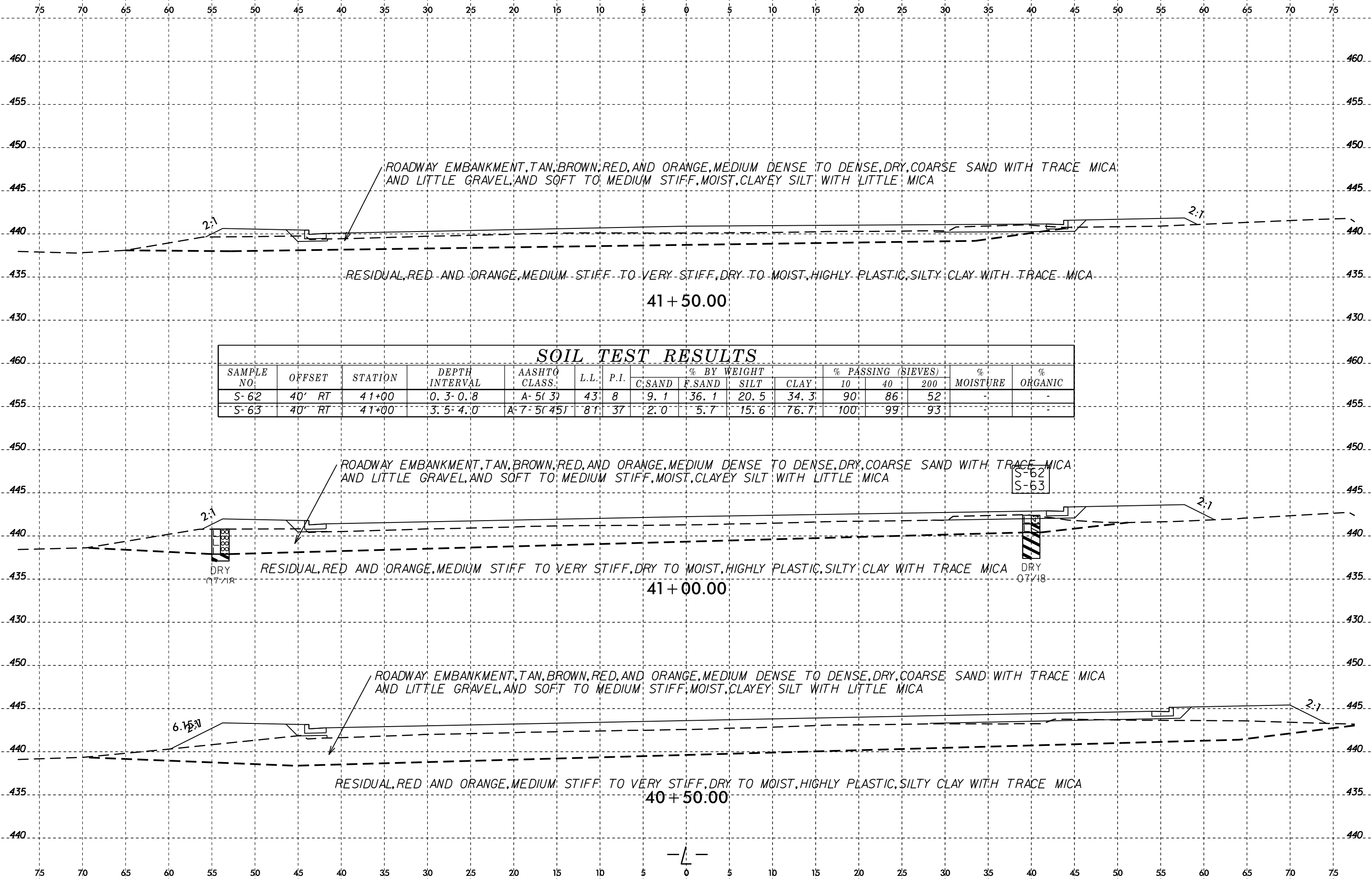
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-27	52' LT	37+00	3.0-3.15	A-7-5(42)	85	51	12.1	13.5	3.9	70.5	100	93	76	33	-
S-57	15' RT	37+00	2.0-2.5	A-7-5(33)	73	41	11.5	12.5	9.4	66.6	98	92	75	29	-
S-59	30' RT	37+00	0.2-0.7	A-7-6(20)	62	34	22.0	15.9	9.6	52.5	100	89	63	-	-
S-58	30' RT	37+00	2.0-2.5	A-7-6(11)	51	27	28.9	19.2	15.6	36.3	100	84	53	-	-





SOIL TEST RESULTS

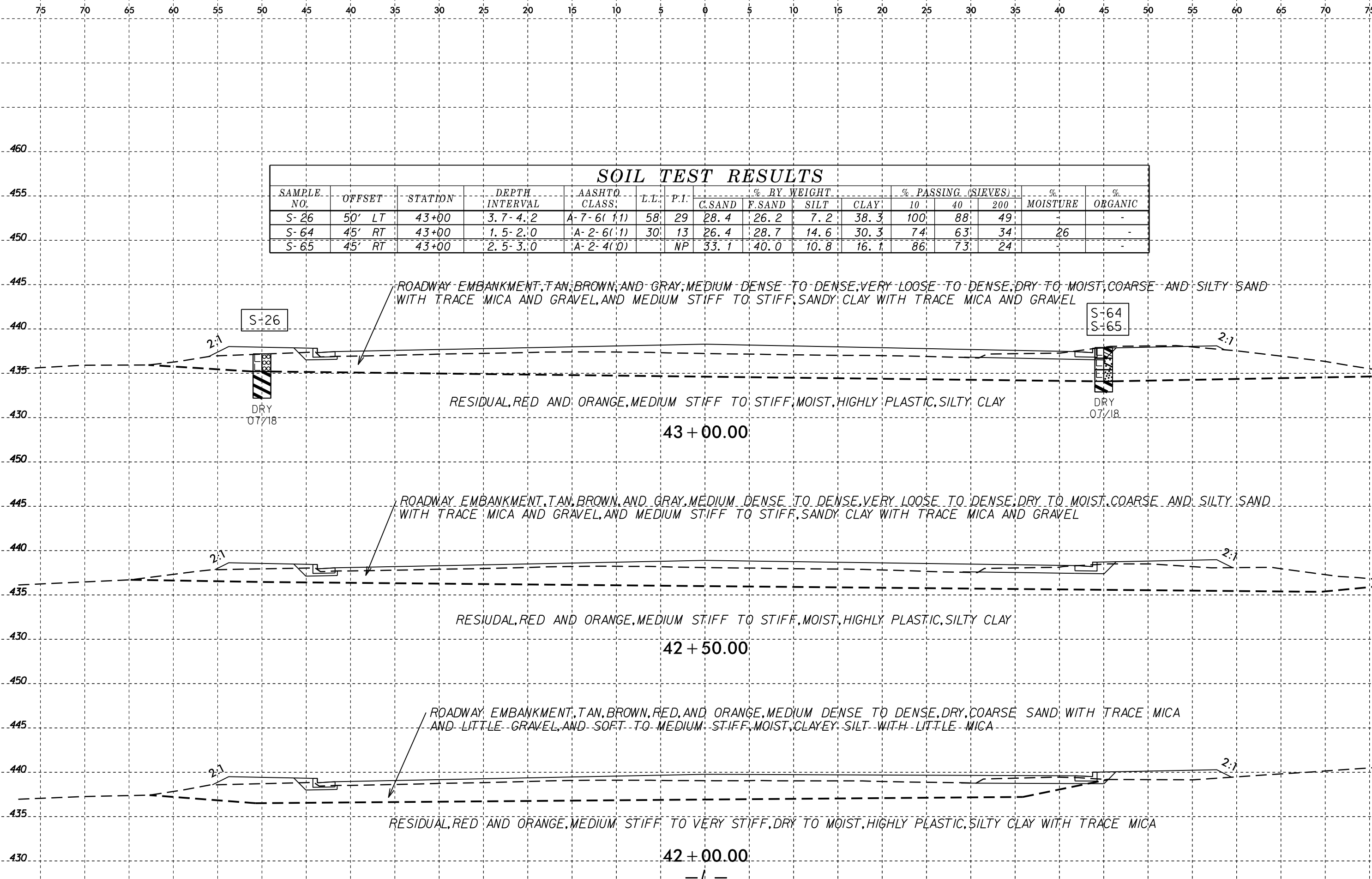
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	#10	#40	#200		
S-28	63' LT	39+00	5.7-6.2	A-7-6(17)	62	35	21.1	19.9	2.5	56.4	94	84	57	16	
S-60	40' RT	39+00	1.0-1.5	A-6(2)	36	14	25.8	27.6	14.2	32.3	87	76	41	28	
S-61	40' RT	39+00	2.2-2.7	A-7-6(14)	55	27	17.8	18.4	7.4	56.5	91	84	59	34	

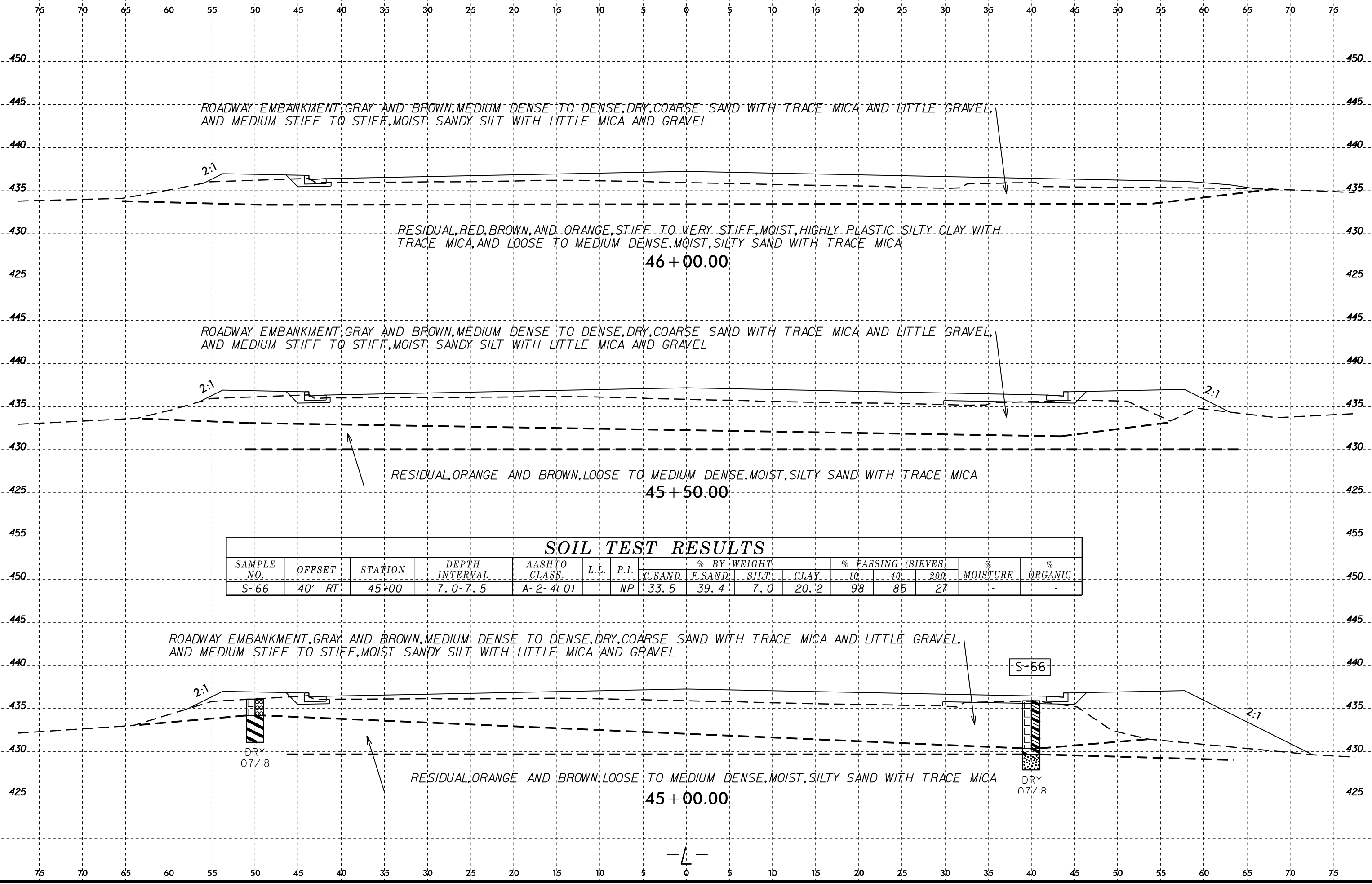


SOIL TEST RESULTS

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-62	40' RT	41+00	0.3-0.8	A-5(3)	43	8	9.1	36.1	20.5	34.3	90	86	52	-	-
S-63	40' RT	41+00	3.5-4.0	A-7-5(45)	81	37	2.0	5.7	15.6	76.7	100	99	93	-	-

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	50' LT	43+00	3.7-4.2	A-7-6(1,1)	58	29	28.4	26.2	7.2	38.3	100	88	49	-	-
S-64	45' RT	43+00	1.5-2.0	A-2-6(1,1)	30	13	26.4	28.7	14.6	30.3	74	63	34	26	-
S-65	45' RT	43+00	2.5-3.0	A-2-4(0)	NP		33.1	40.0	10.8	16.1	86	73	24	-	-





ROADWAY EMBANKMENT, GRAY AND BROWN, MEDIUM DENSE TO DENSE, DRY, COARSE SAND WITH TRACE MICA AND LITTLE GRAVEL, AND MEDIUM STIFF TO STIFF, MOIST SANDY SILT WITH LITTLE MICA AND GRAVEL

RESIDUAL, RED, BROWN, AND ORANGE, STIFF TO VERY STIFF, MOIST, HIGHLY PLASTIC SILTY CLAY WITH TRACE MICA, AND LOOSE TO MEDIUM DENSE, MOIST, SILTY SAND WITH TRACE MICA

46 + 00.00

ROADWAY EMBANKMENT, GRAY AND BROWN, MEDIUM DENSE TO DENSE, DRY, COARSE SAND WITH TRACE MICA AND LITTLE GRAVEL, AND MEDIUM STIFF TO STIFF, MOIST SANDY SILT WITH LITTLE MICA AND GRAVEL

RESIDUAL, ORANGE AND BROWN, LOOSE TO MEDIUM DENSE, MOIST, SILTY SAND WITH TRACE MICA

45 + 50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-66	40' RT	45+00	7.0-7.5	A-2-4(0)		NP	33.5	39.4	7.0	20.2	98	85	27	-	-

ROADWAY EMBANKMENT, GRAY AND BROWN, MEDIUM DENSE TO DENSE, DRY, COARSE SAND WITH TRACE MICA AND LITTLE GRAVEL, AND MEDIUM STIFF TO STIFF, MOIST SANDY SILT WITH LITTLE MICA AND GRAVEL

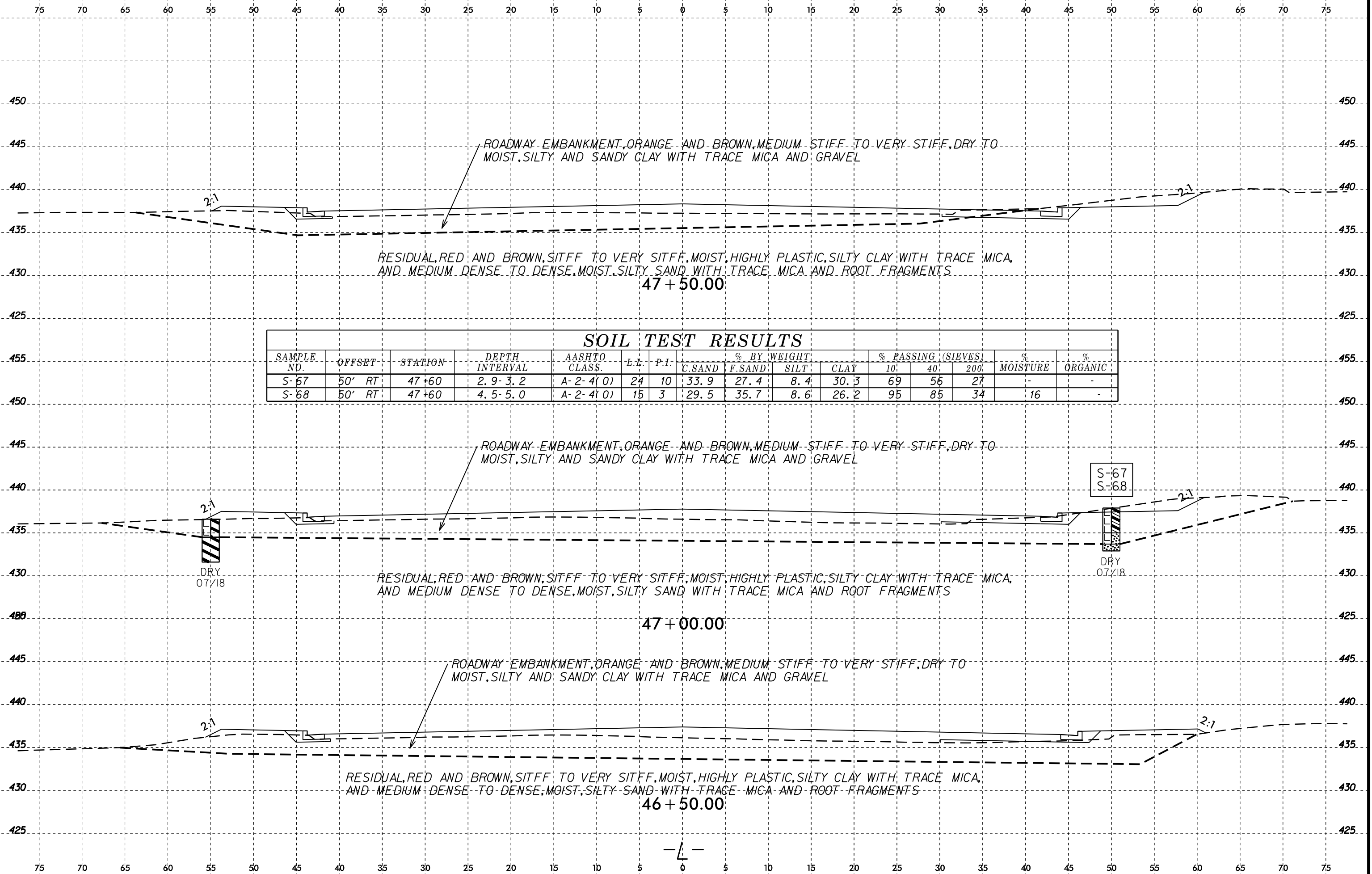
RESIDUAL, ORANGE AND BROWN, LOOSE TO MEDIUM DENSE, MOIST, SILTY SAND WITH TRACE MICA

45 + 00.00

DRY 07/18

DRY 07/18

6/23/16
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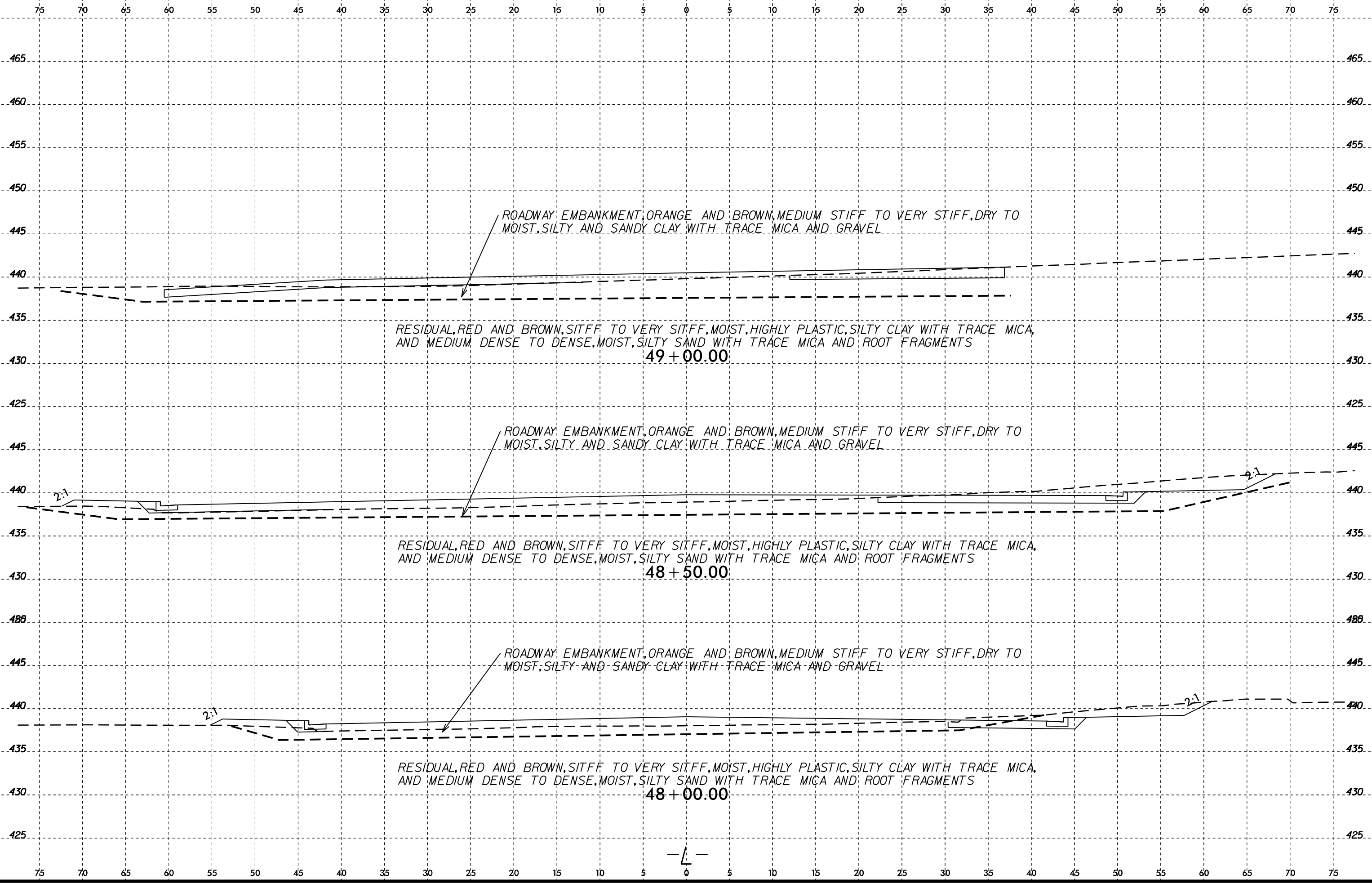


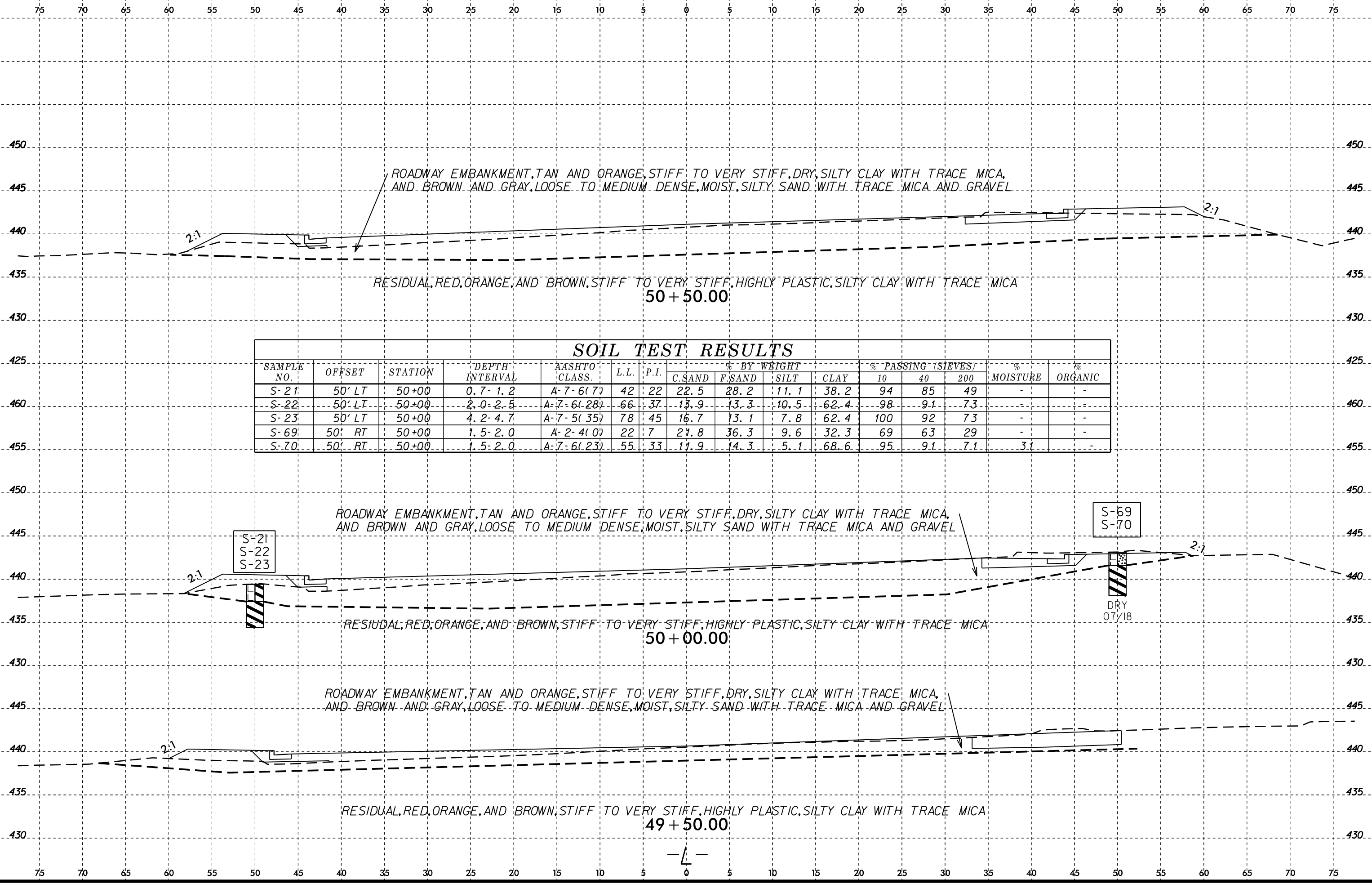
SOIL TEST RESULTS

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-67	50' RT	47+60	2.9-3.2	A-2-4(0)	24	10	33.9	27.4	8.4	30.3	69	56	27	-	-
S-68	50' RT	47+60	4.5-5.0	A-2-4(0)	15	3	29.5	35.7	8.6	26.2	95	85	34	16	-

S-67
 S-68
 DRY
 0.7/18

DRY
 0.7/18



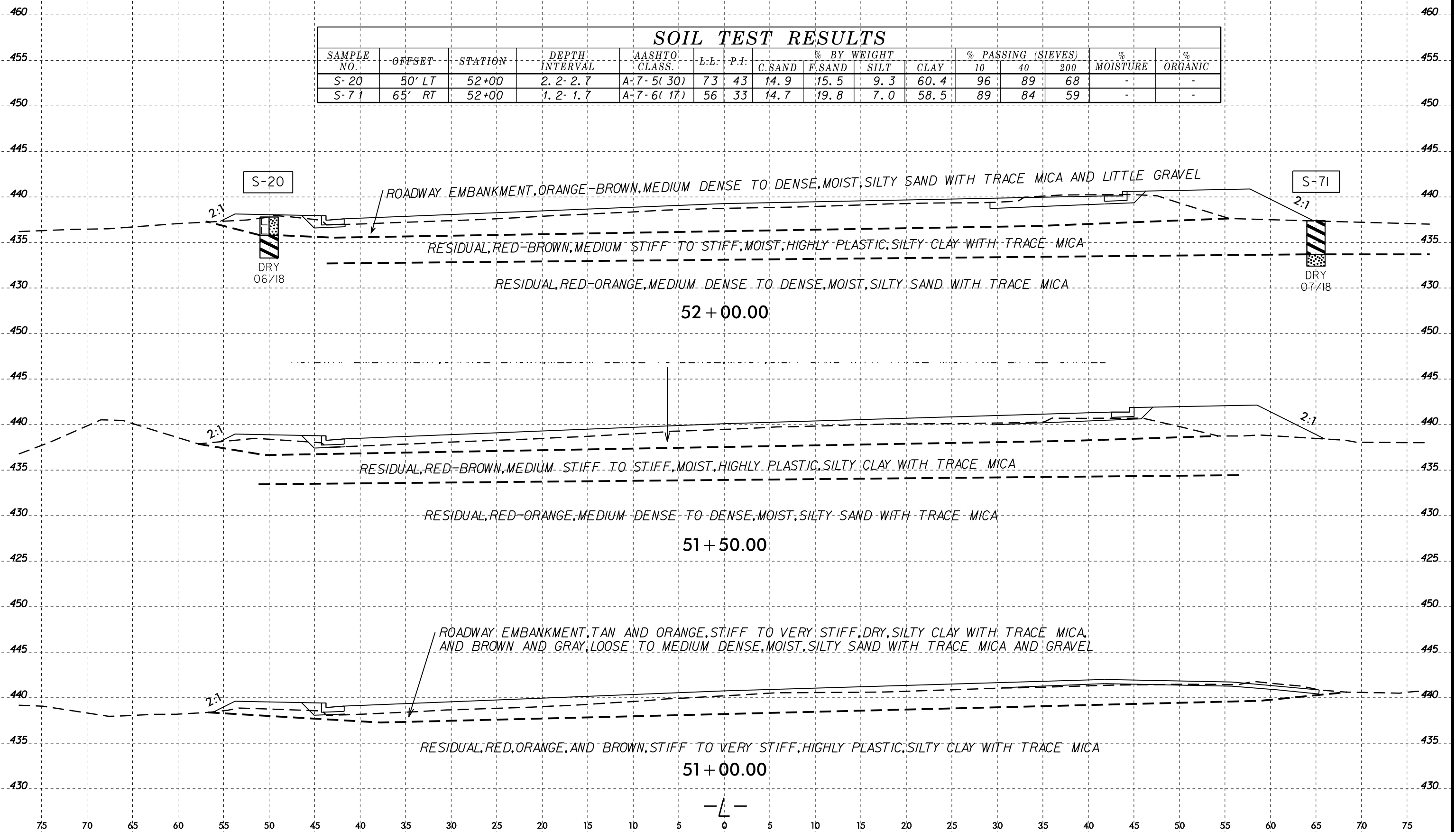


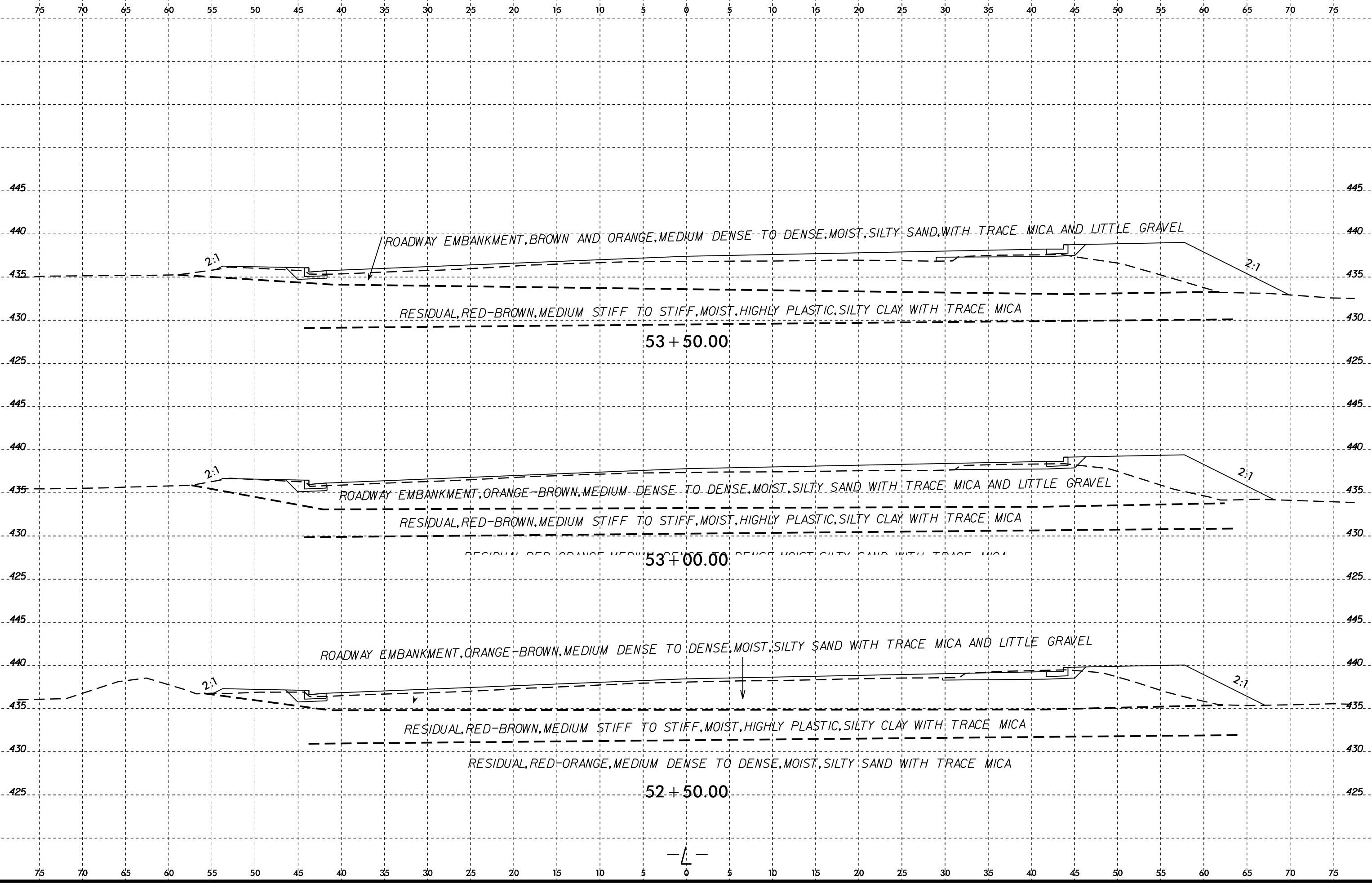
SOIL TEST RESULTS

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-21	50' LT	50+00	0.7- 1.2	A-7-6(7)	42	22	22.5	28.2	11.1	38.2	94	85	49	-	-
S-22	50' LT	50+00	2.0- 2.5	A-7-6(28)	66	37	13.9	13.3	10.5	62.4	98	91	73	-	-
S-23	50' LT	50+00	4.2- 4.7	A-7-5(35)	78	45	16.7	13.1	7.8	62.4	100	92	73	-	-
S-69	50' RT	50+00	1.5- 2.0	A-2-4(0)	22	7	21.8	36.3	9.6	32.3	69	63	29	-	-
S-70	50' RT	50+00	1.5- 2.0	A-7-6(23)	55	33	11.9	14.3	5.1	68.6	95	91	71	3.1	-

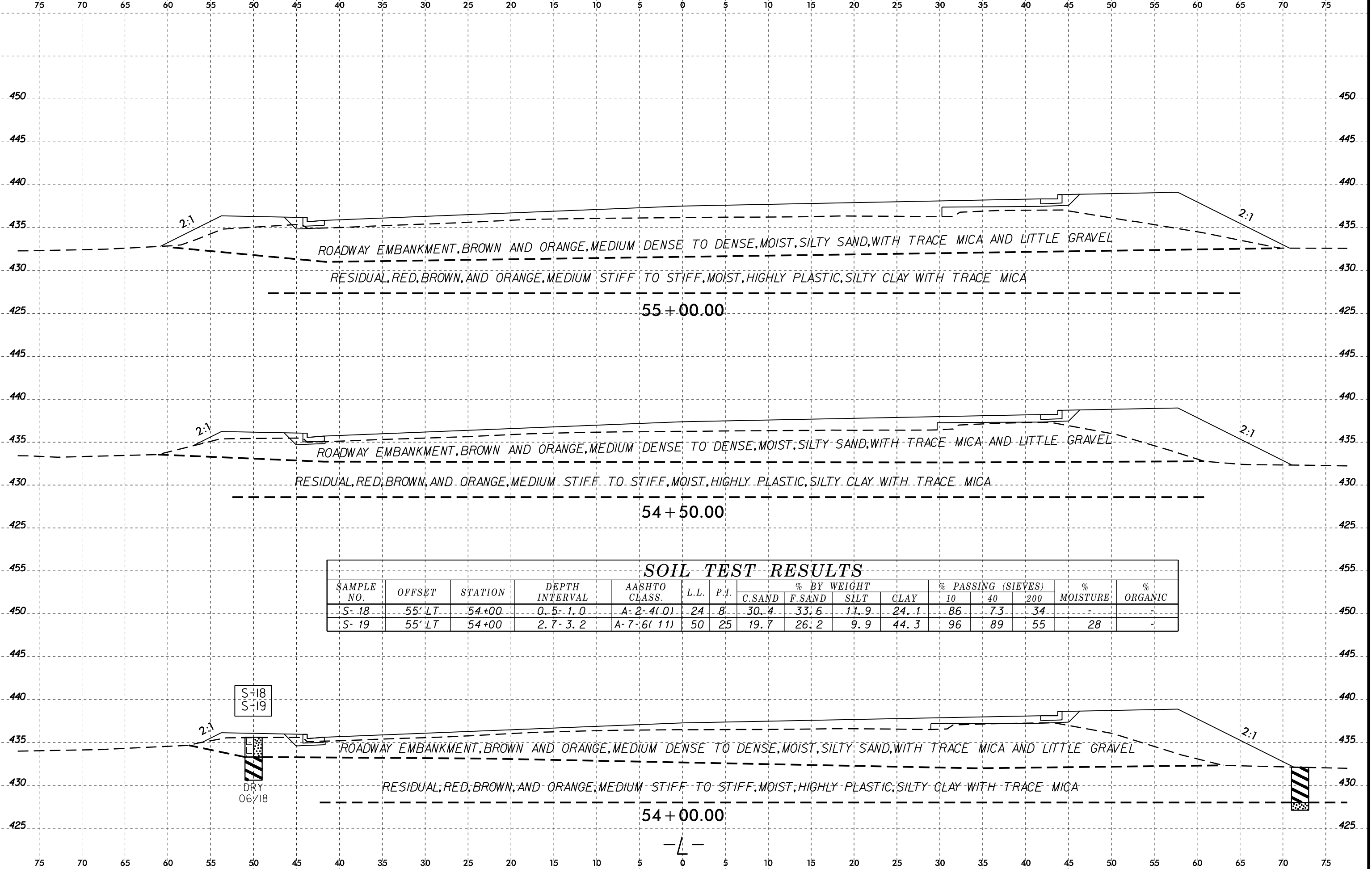
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-20	50' LT	52+00	2.2-2.7	A-7-5(30)	73	43	14.9	15.5	9.3	60.4	96	89	68	-	-
S-71	65' RT	52+00	1.2-1.7	A-7-6(17)	56	33	14.7	19.8	7.0	58.5	89	84	59	-	-





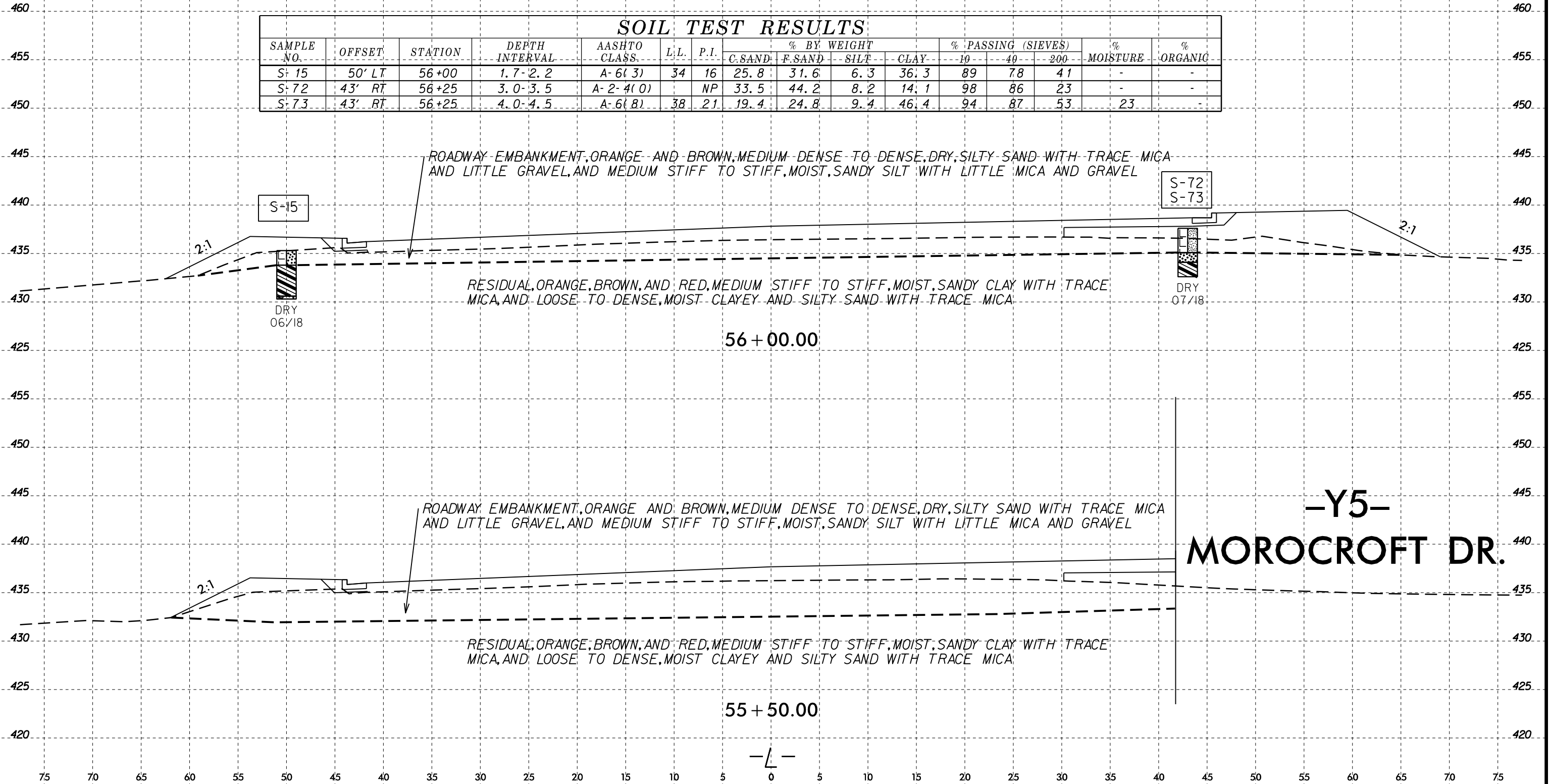
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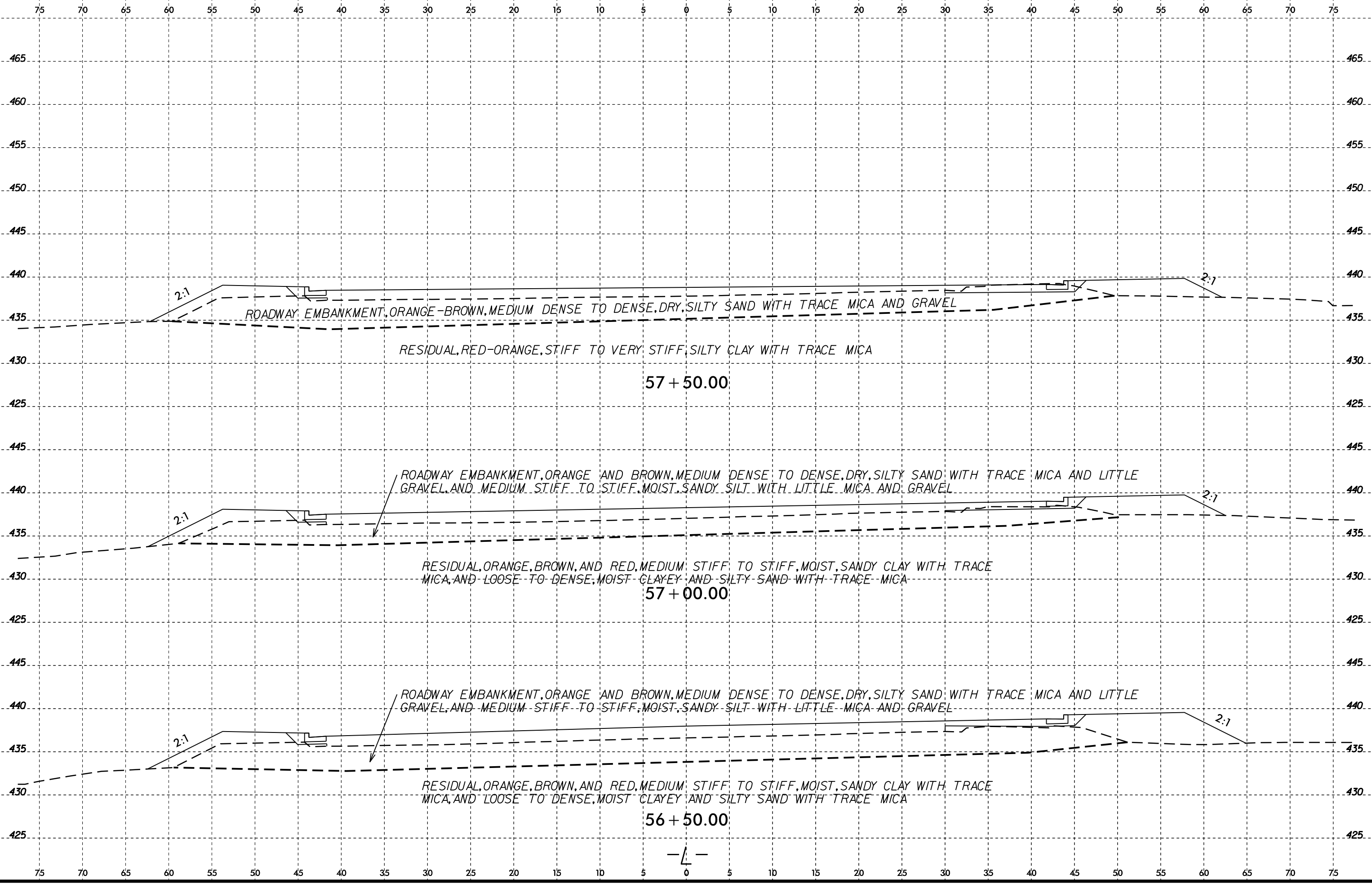
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SOIL TEST RESULTS

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-15	50' LT	56+00	1.7-2.2	A-6(3)	34	16	25.8	31.6	6.3	36.3	89	78	41	-	-
S-72	43' RT	56+25	3.0-3.5	A-2-4(0)		NP	33.5	44.2	8.2	14.1	98	86	23	-	-
S-73	43' RT	56+25	4.0-4.5	A-6(8)	38	21	19.4	24.8	9.4	46.4	94	87	53	23	-



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 MOROCROFT DR.



ROADWAY EMBANKMENT, ORANGE-BROWN, MEDIUM DENSE TO DENSE, DRY, SILTY SAND WITH TRACE MICA AND GRAVEL

RESIDUAL, RED-ORANGE, STIFF TO VERY STIFF, SILTY CLAY WITH TRACE MICA

57 + 50.00

ROADWAY EMBANKMENT, ORANGE AND BROWN, MEDIUM DENSE TO DENSE, DRY, SILTY SAND WITH TRACE MICA AND LITTLE GRAVEL, AND MEDIUM STIFF TO STIFF, MOIST, SANDY SILT WITH LITTLE MICA AND GRAVEL

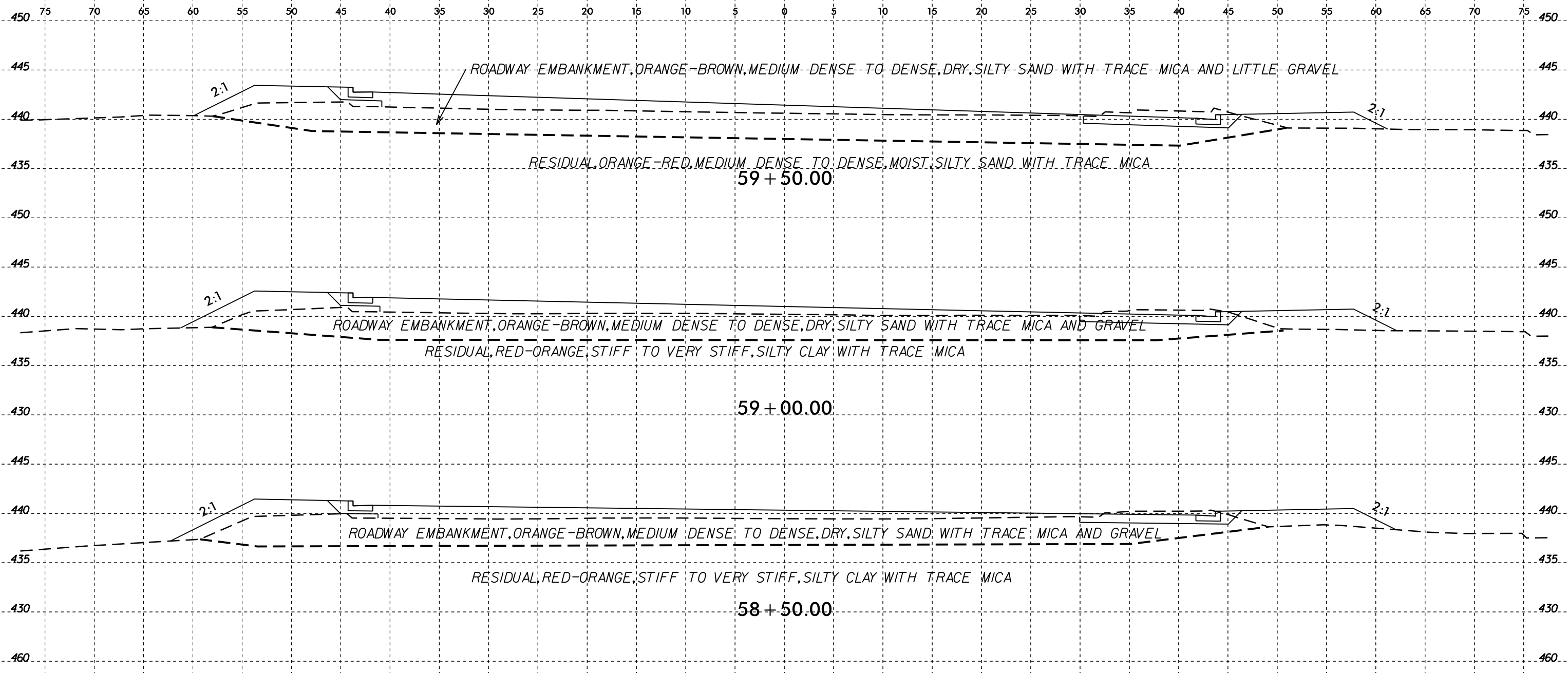
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57 + 00.00

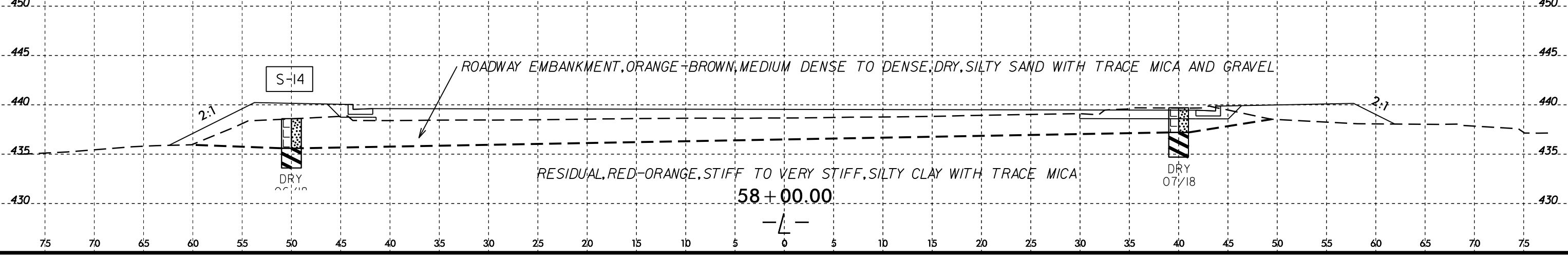
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RESIDUAL, ORANGE, BROWN, AND RED, MEDIUM STIFF TO STIFF, MOIST, SANDY CLAY WITH TRACE MICA, AND LOOSE TO DENSE, MOIST CLAYEY AND SILTY SAND WITH TRACE MICA

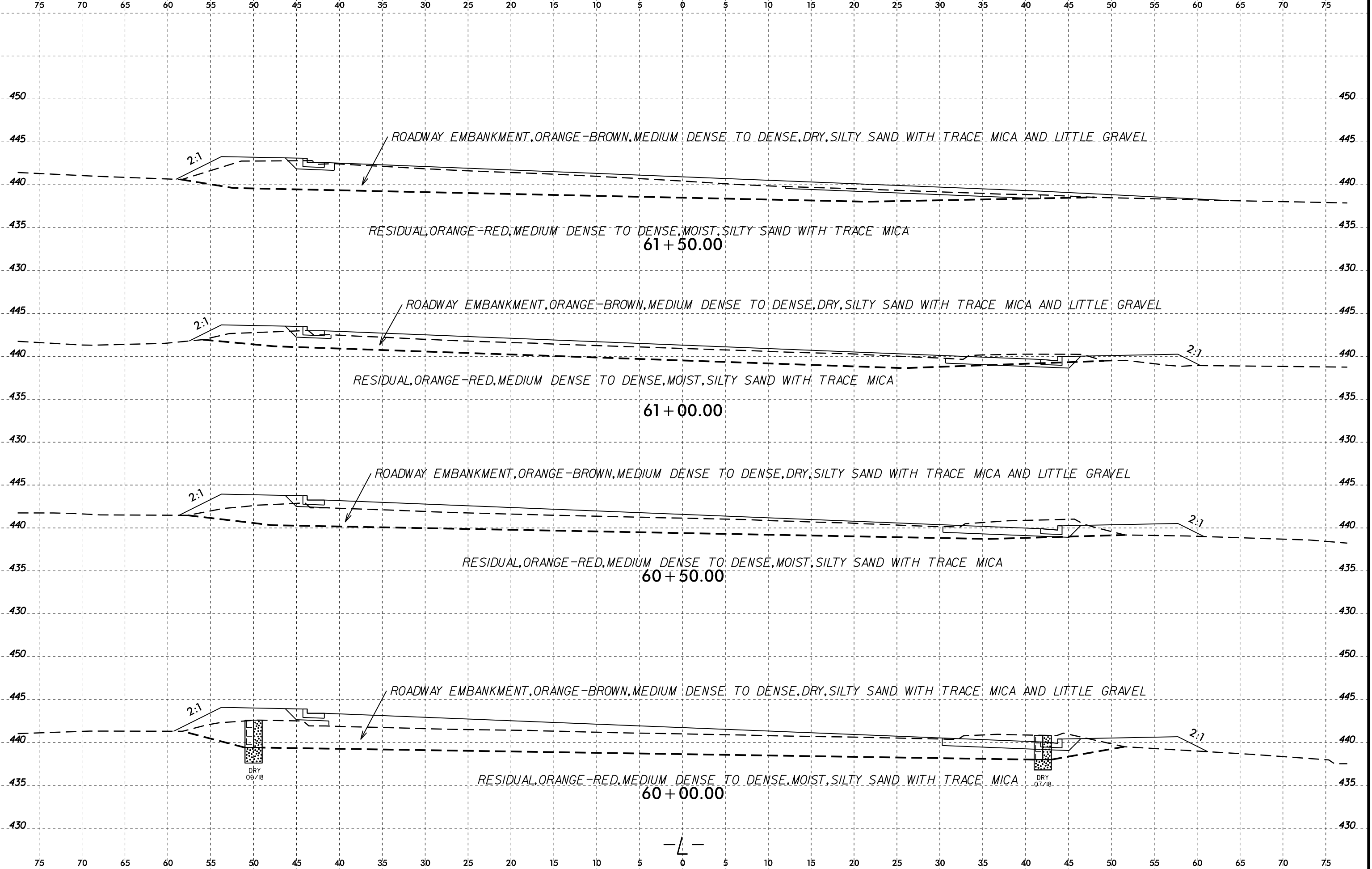
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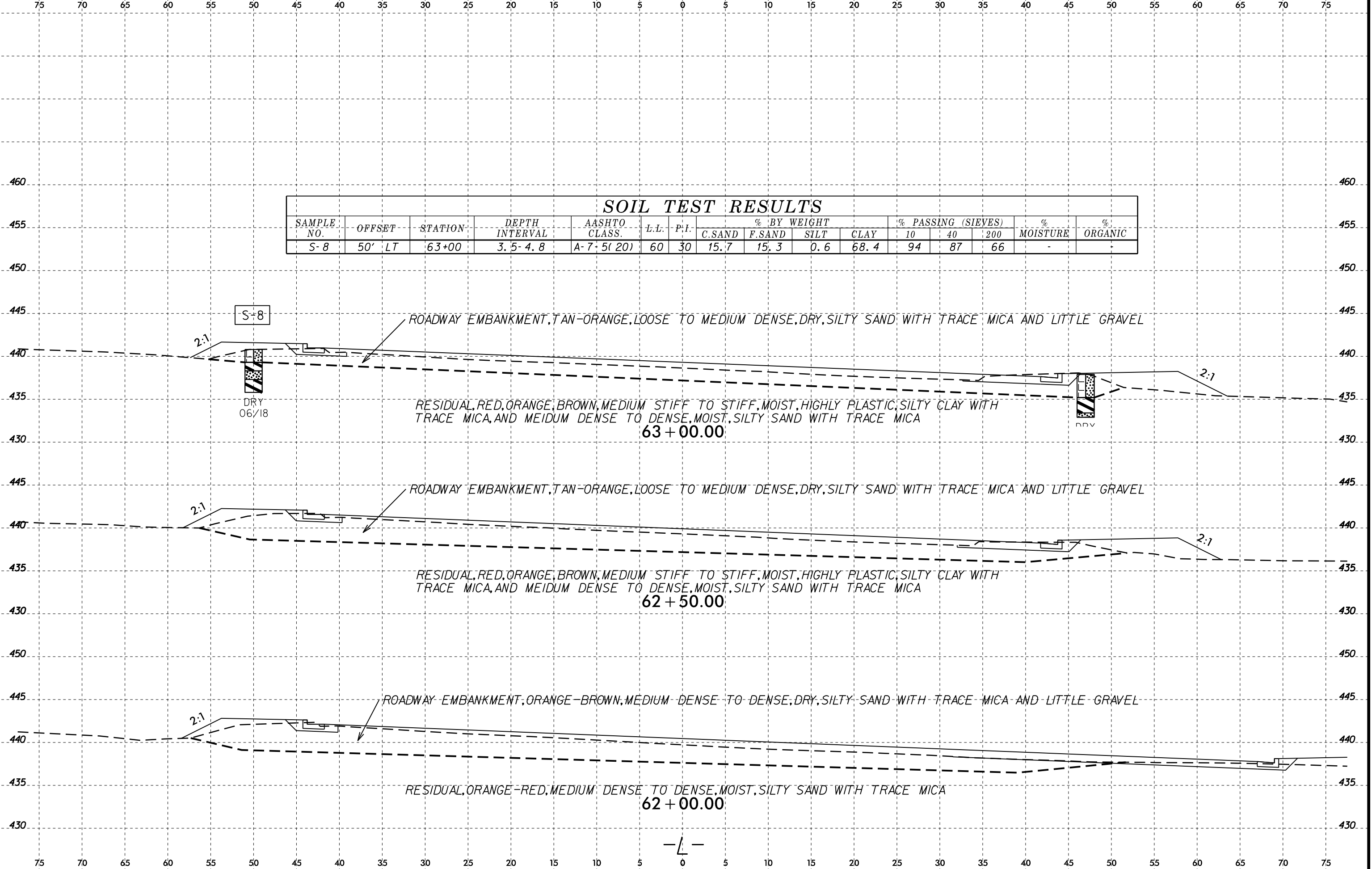
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SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-14	50' LT	58+00	3.2-3.7	A-7-6(7)	43	21	23.6	28.0	6.1	42.3	96	87	49	-	-



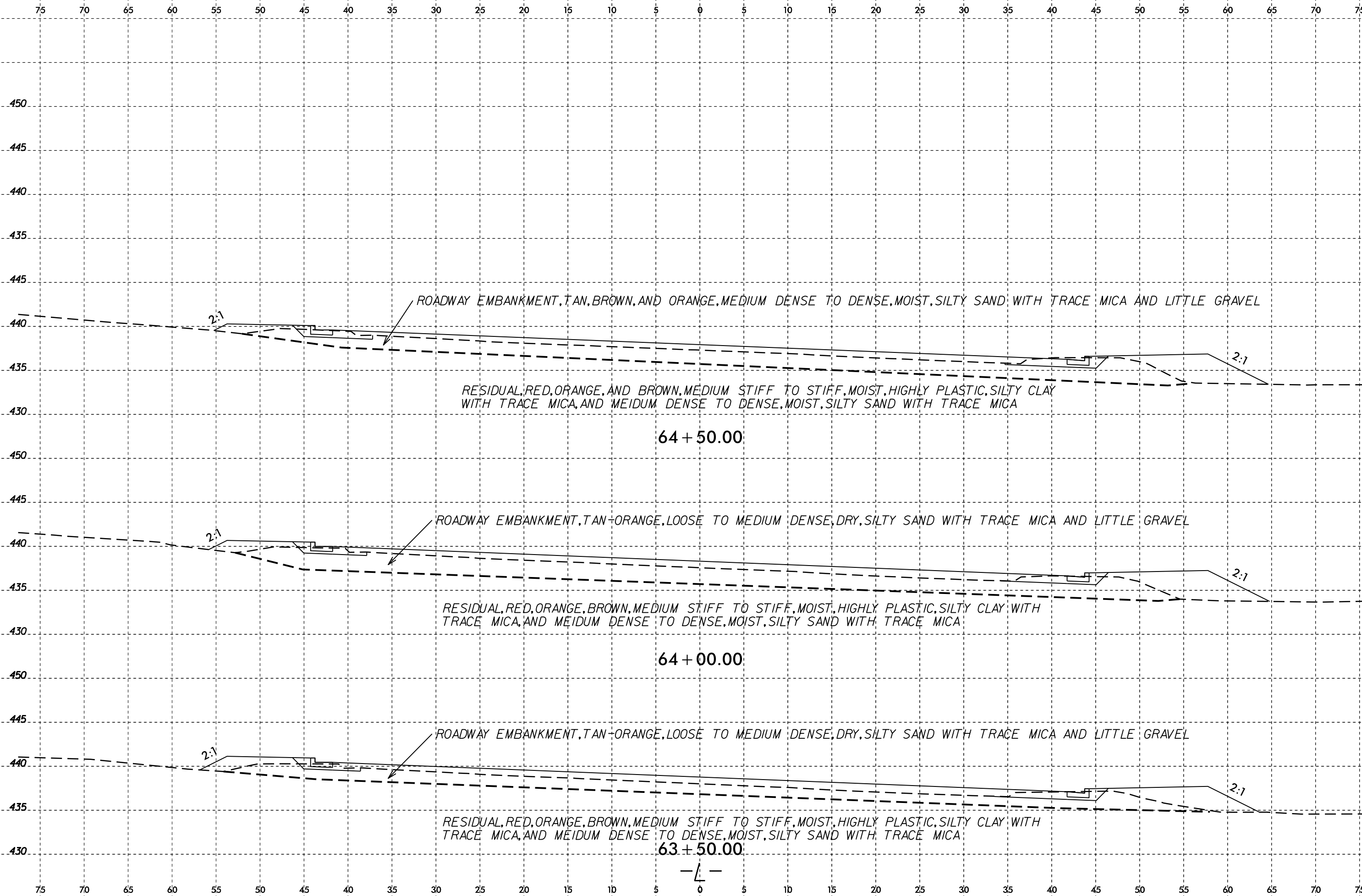
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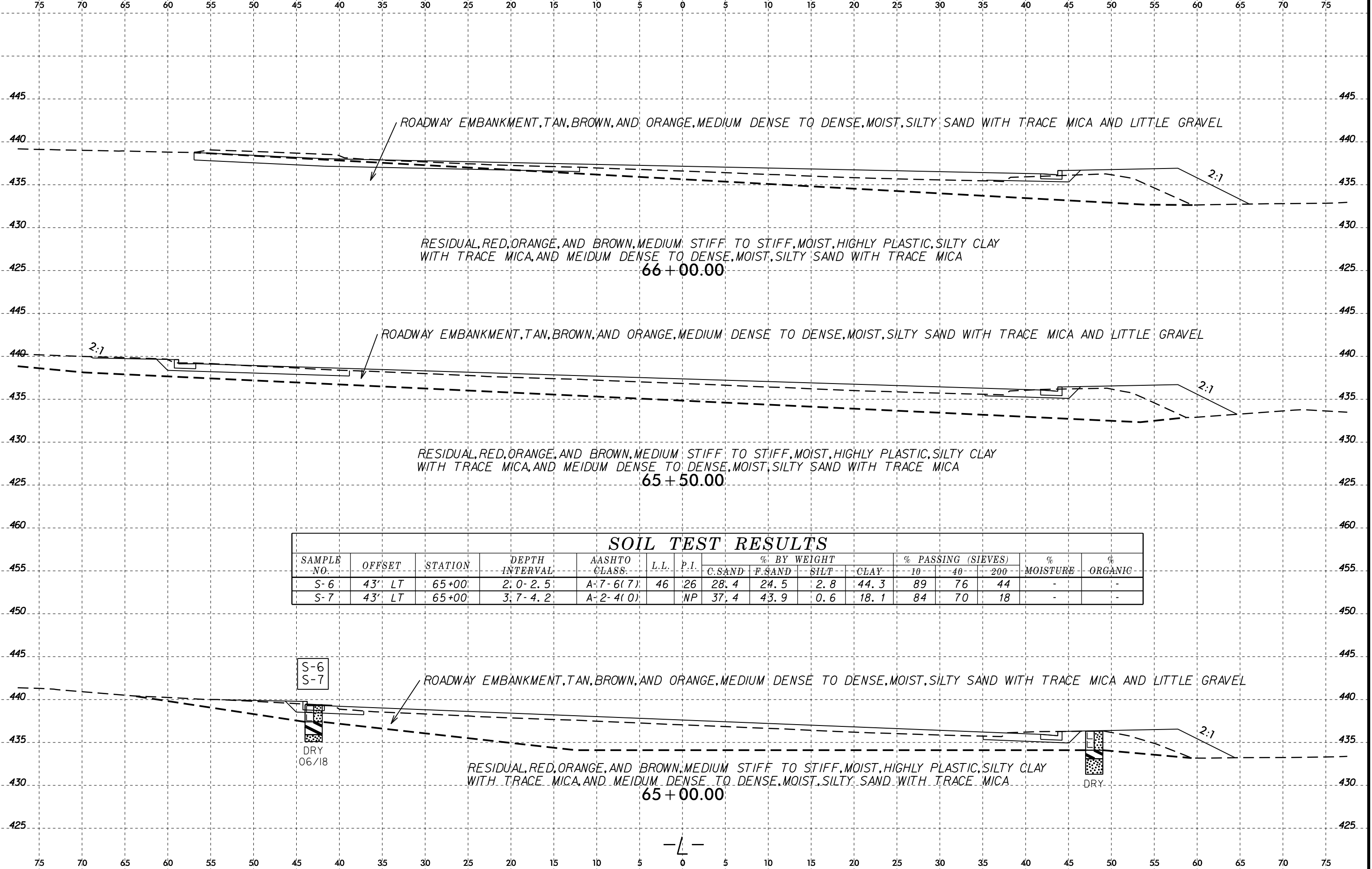
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							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-8	50' LT	63+00	3.5-4.8	A-7.5(20)	60	30	15.7	15.3	0.6	68.4	94	87	66	-	-

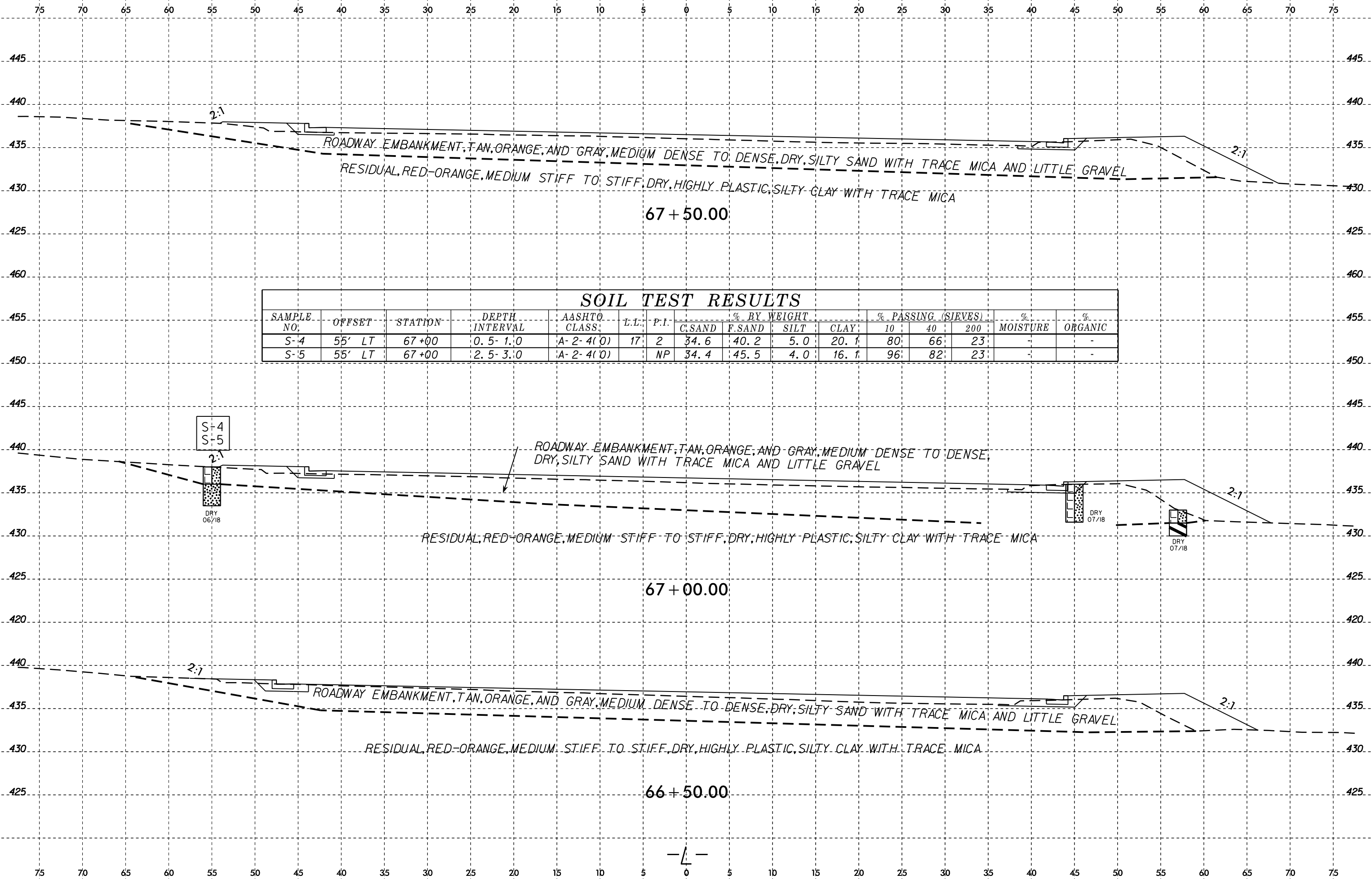


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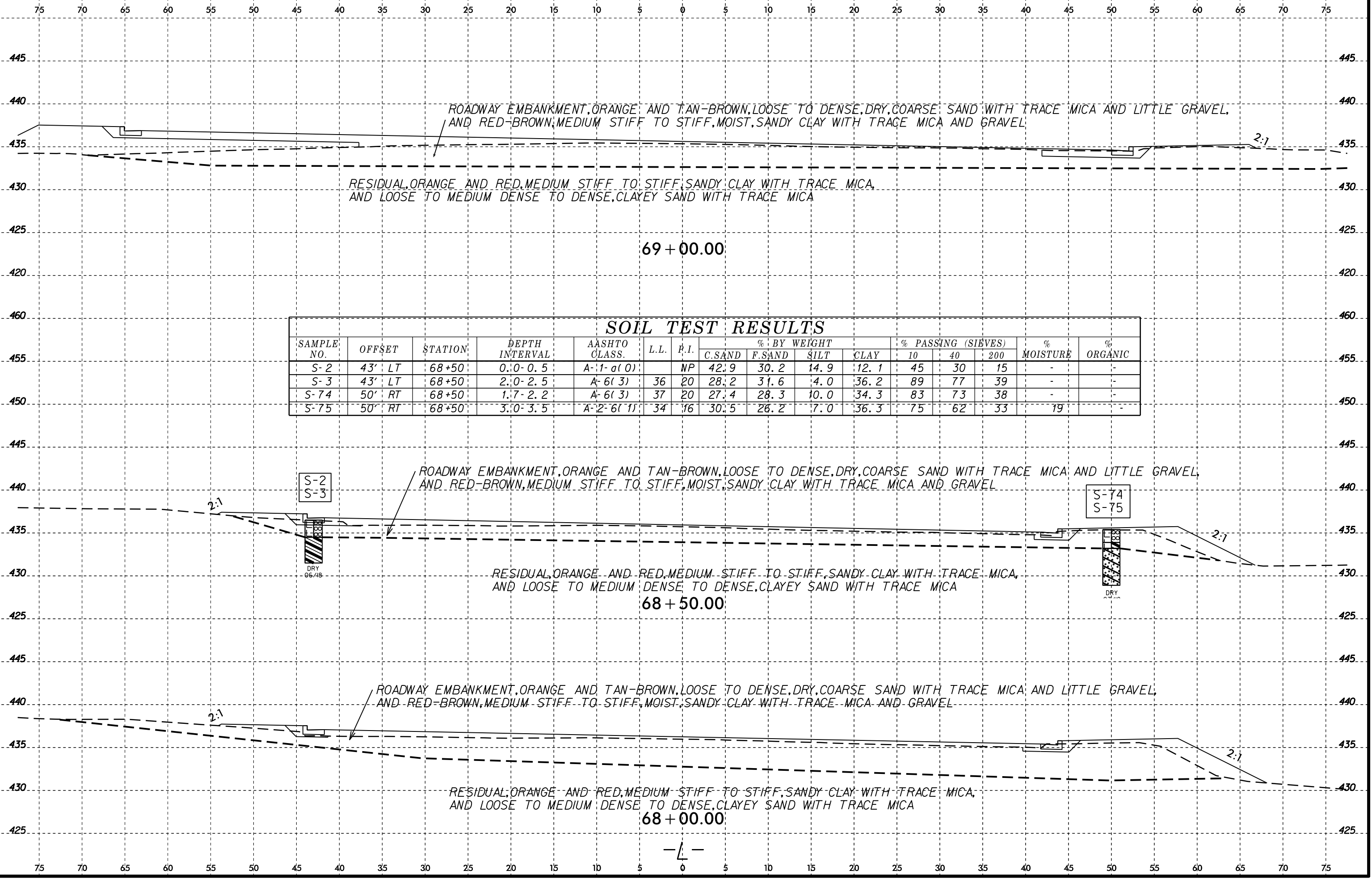


SOIL TEST RESULTS

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-4	55' LT	67+00	0.5-1.0	A-2-4(0)	17	2	34.6	40.2	5.0	20.1	80	66	23	-	-
S-5	55' LT	67+00	2.5-3.0	A-2-4(0)		NP	34.4	45.5	4.0	16.1	96	82	23	-	-

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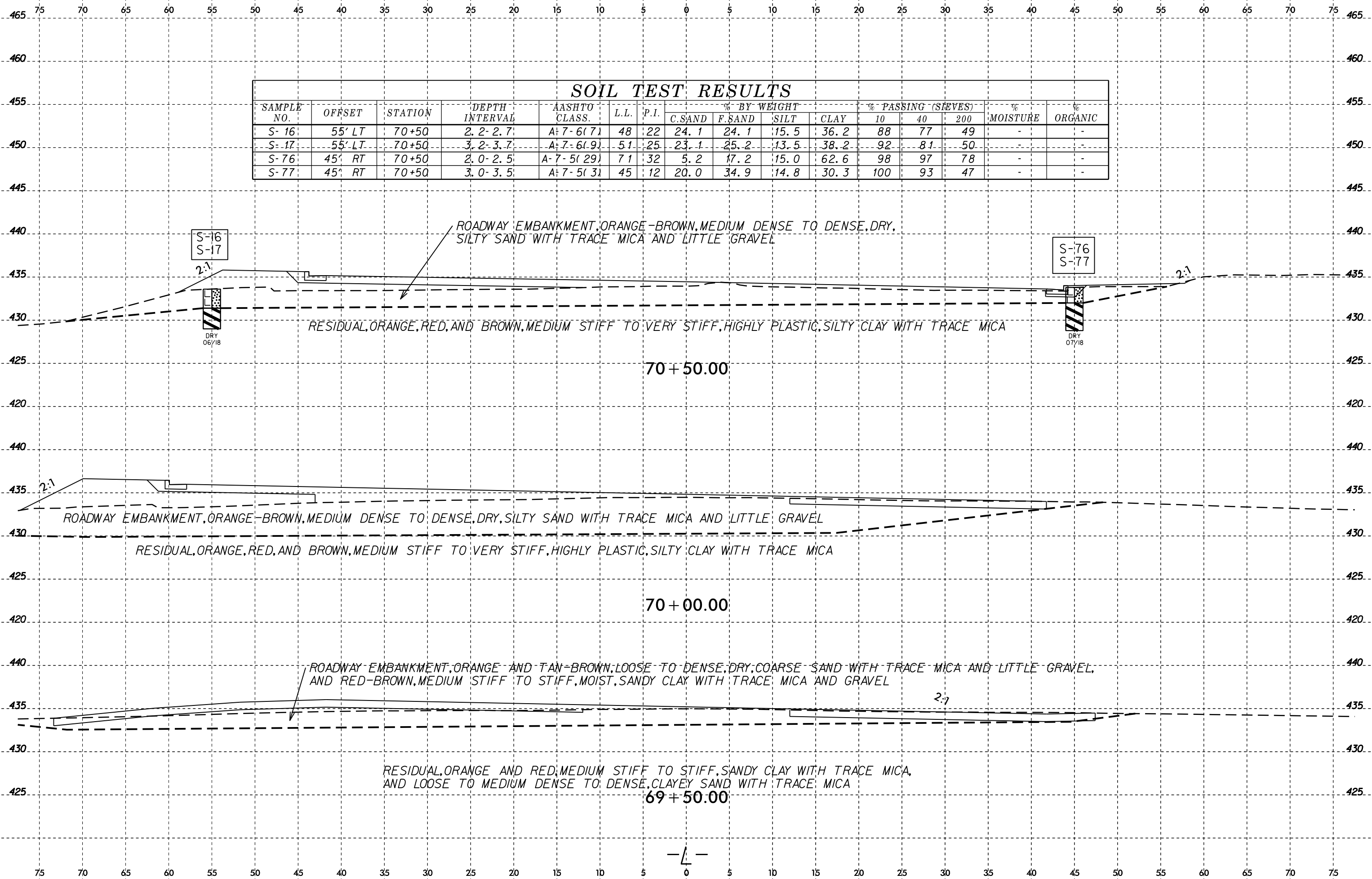


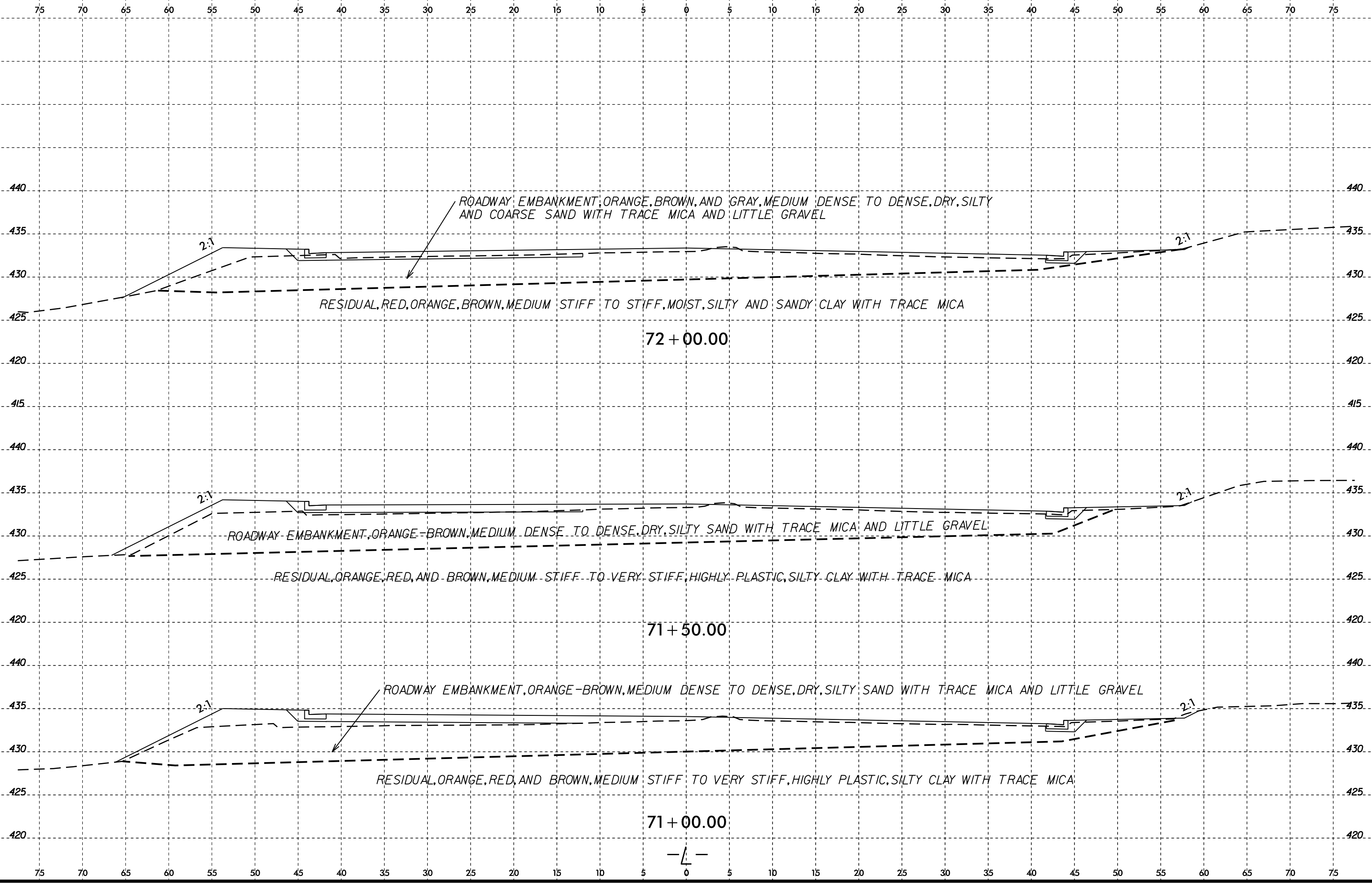
SOIL TEST RESULTS

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-2	43' LT	68+50	0.0-0.5	A-1-a(0)		NP	42.9	30.2	14.9	12.1	45	30	15	-	-
S-3	43' LT	68+50	2.0-2.5	A-6(3)	36	20	28.2	31.6	4.0	36.2	89	77	39	-	-
S-74	50' RT	68+50	1.7-2.2	A-6(3)	37	20	27.4	28.3	10.0	34.3	83	73	38	-	-
S-75	50' RT	68+50	3.0-3.5	A-2-6(1)	34	16	30.5	26.2	7.0	36.3	75	62	33	19	-

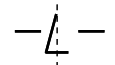
SOIL TEST RESULTS

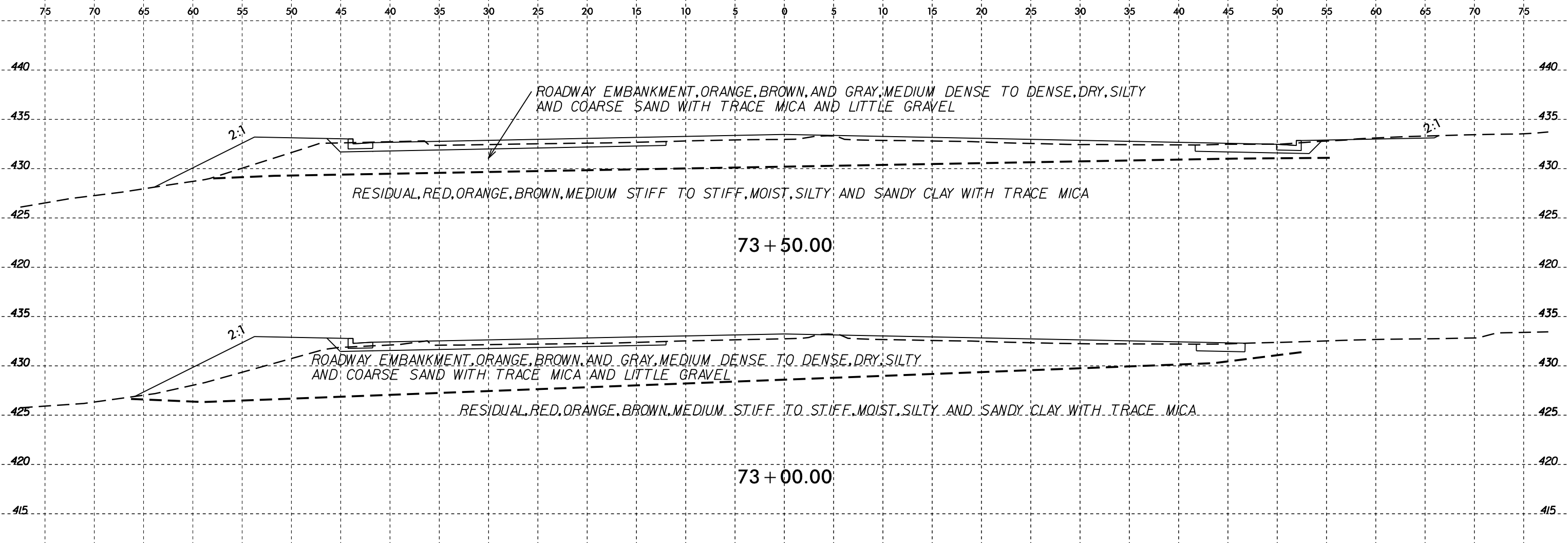
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							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-16	55' LT	70+50	2.2-2.7	A-7-6(7)	48	22	24.1	24.1	15.5	36.2	88	77	49	-	-
S-17	55' LT	70+50	3.2-3.7	A-7-6(9)	51	25	23.1	25.2	13.5	38.2	92	81	50	-	-
S-76	45' RT	70+50	2.0-2.5	A-7-5(29)	71	32	5.2	17.2	15.0	62.6	98	97	78	-	-
S-77	45' RT	70+50	3.0-3.5	A-7-5(3)	45	12	20.0	34.9	14.8	30.3	100	93	47	-	-





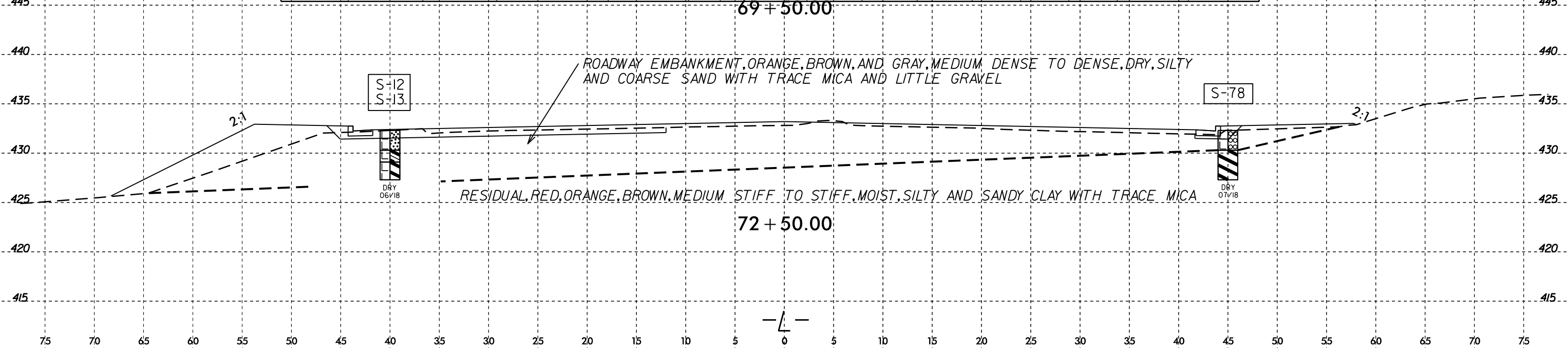
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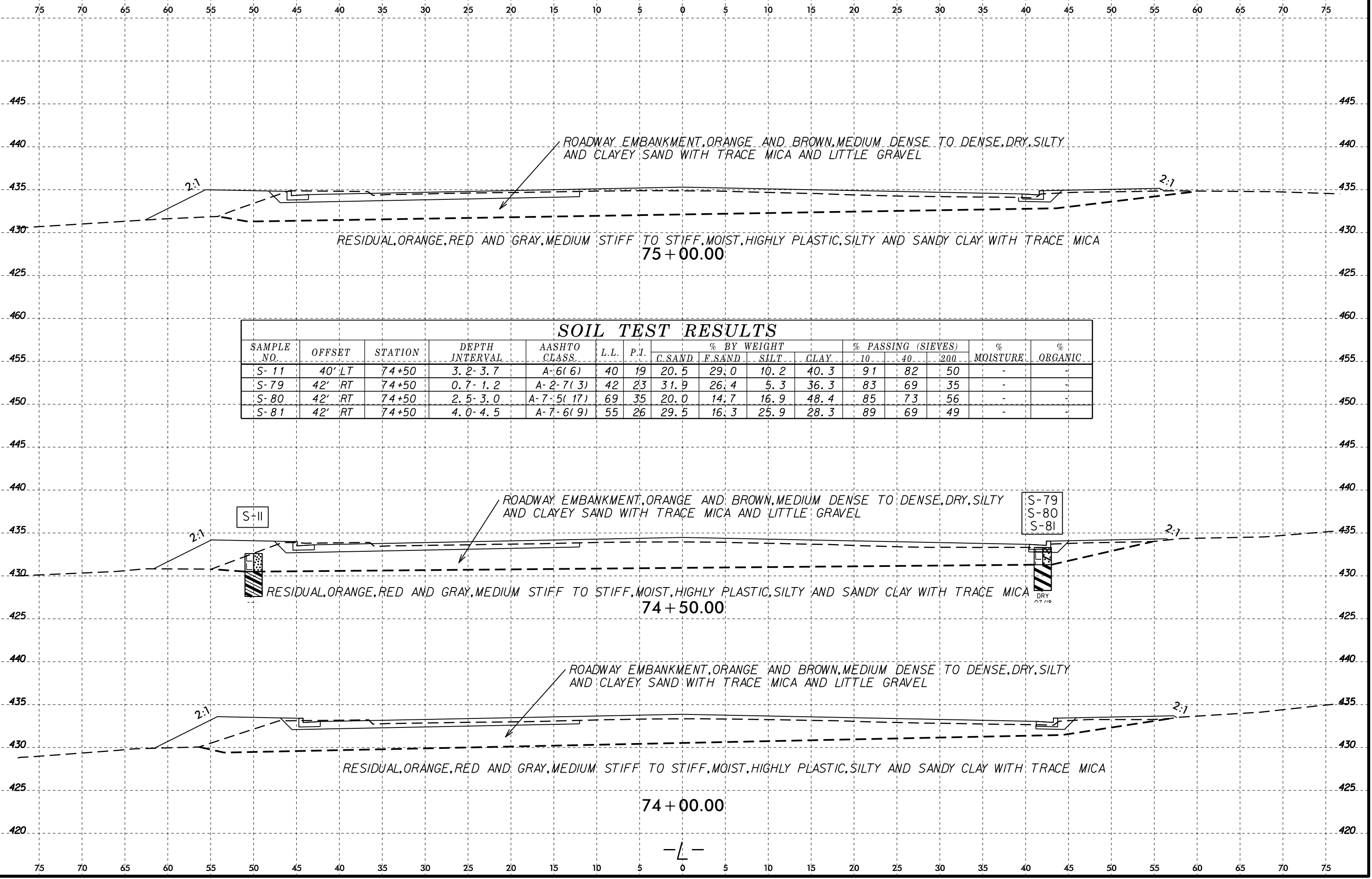


SOIL TEST RESULTS

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-12	40' LT	72+50	3.2-3.7	A-7-6(13)	50	25	20.9	22.0	8.8	48.3	97	87	59	-	-
S-13	40' LT	72+50	4.5-5.0	A-7-6(5)	41	19	24.8	30.6	8.4	36.3	94	83	45	-	-
S-78	45' RT	72+50	2.5-3.0	A-7-5(4)	49	15	26.2	29.1	12.4	32.3	99	87	46	-	-



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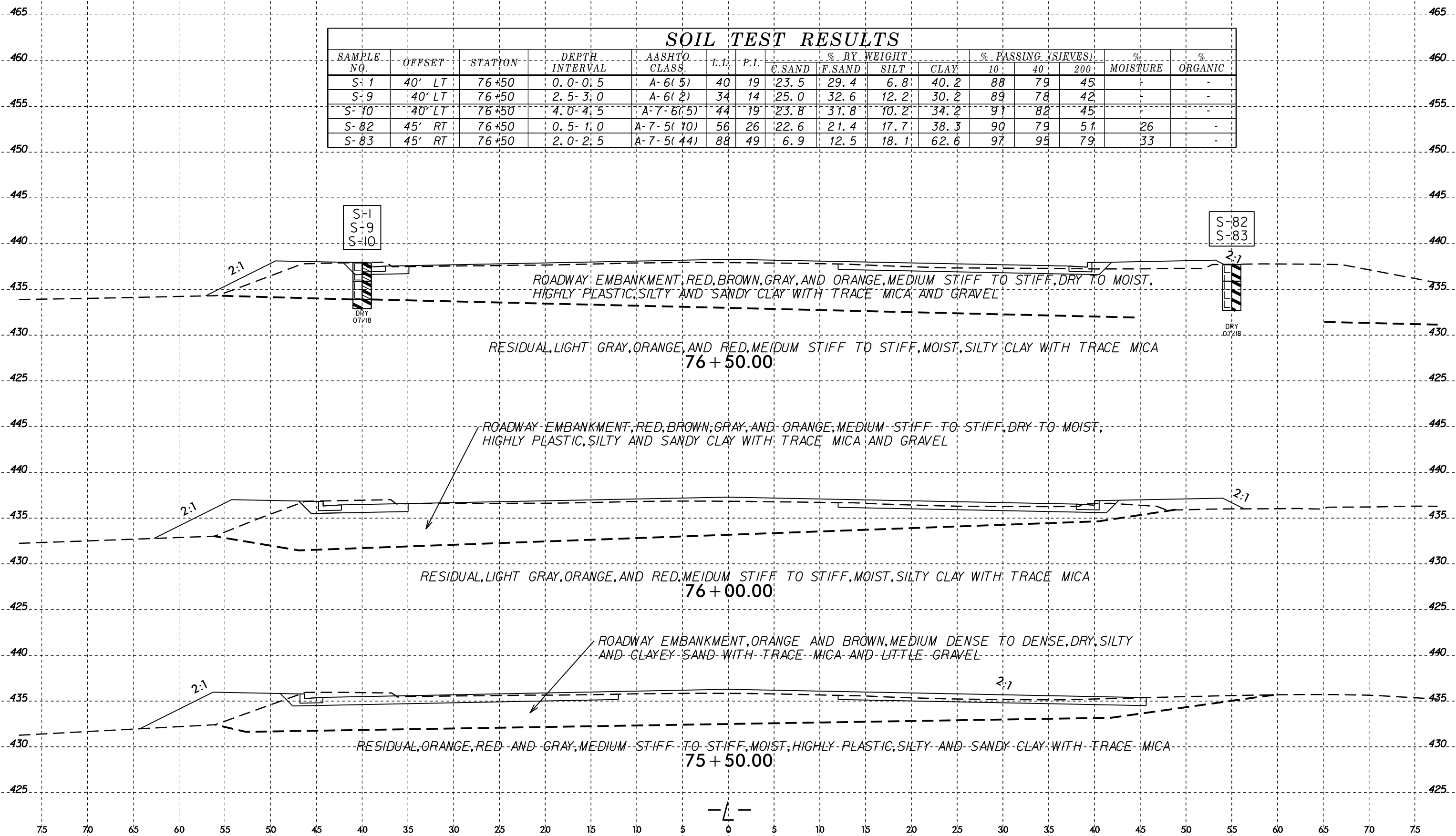
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							C. SAND	F. SAND	SILT	CLAY	-10	40	200		
S-11	40' LT	74+50	3.2-3.7	A-6(6)	40	19	20.5	29.0	10.2	40.3	91	82	50	-	-
S-79	42' RT	74+50	0.7-1.2	A-2-7(3)	42	23	31.9	26.4	5.3	36.3	83	69	35	-	-
S-80	42' RT	74+50	2.5-3.0	A-7-5(17)	69	35	20.0	14.7	16.9	48.4	85	73	56	-	-
S-81	42' RT	74+50	4.0-4.5	A-7-6(9)	55	26	29.5	16.3	25.9	28.3	89	69	49	-	-

S-79
 S-80
 S-81
 DRY
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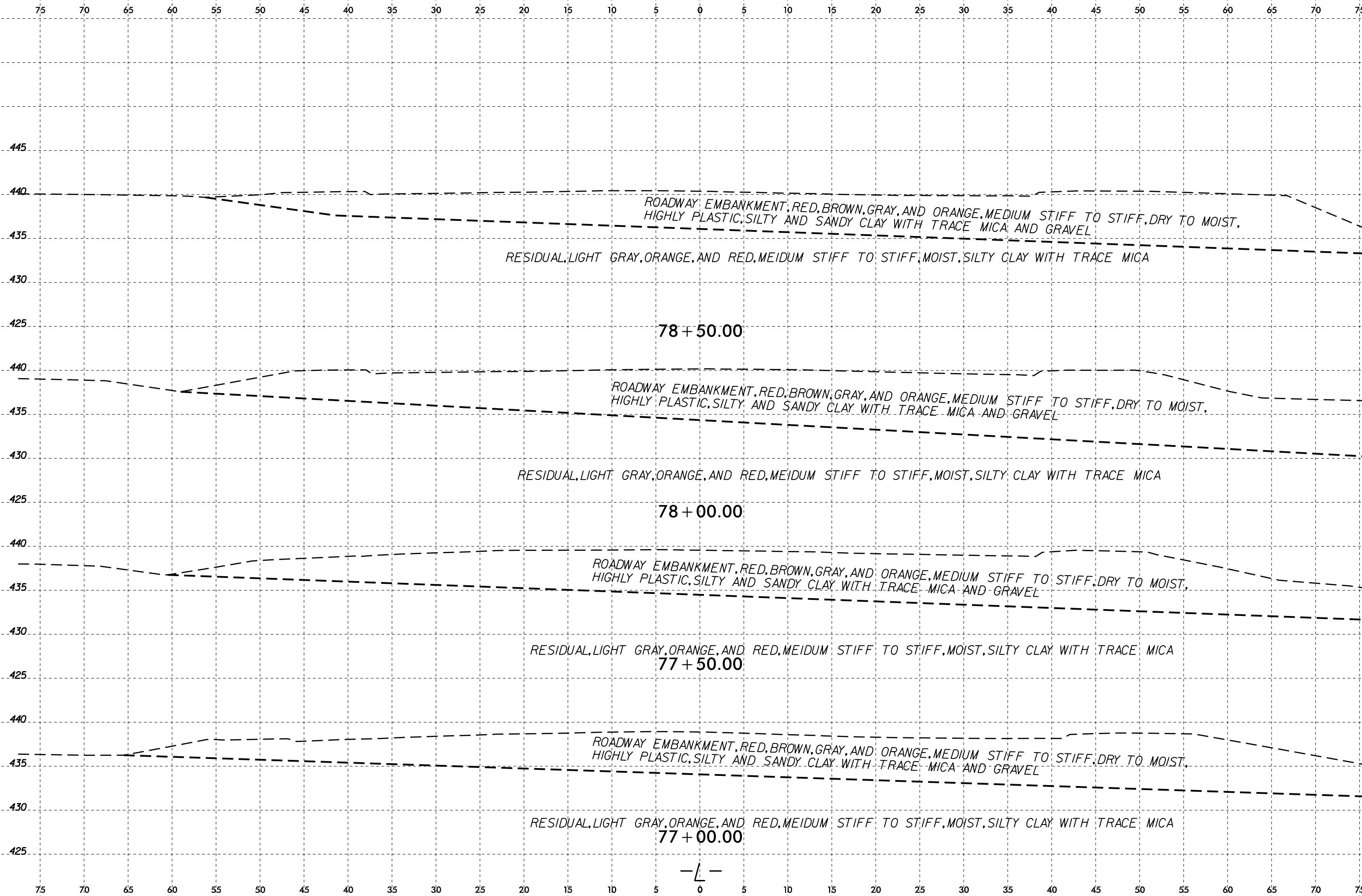
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SOIL TEST RESULTS

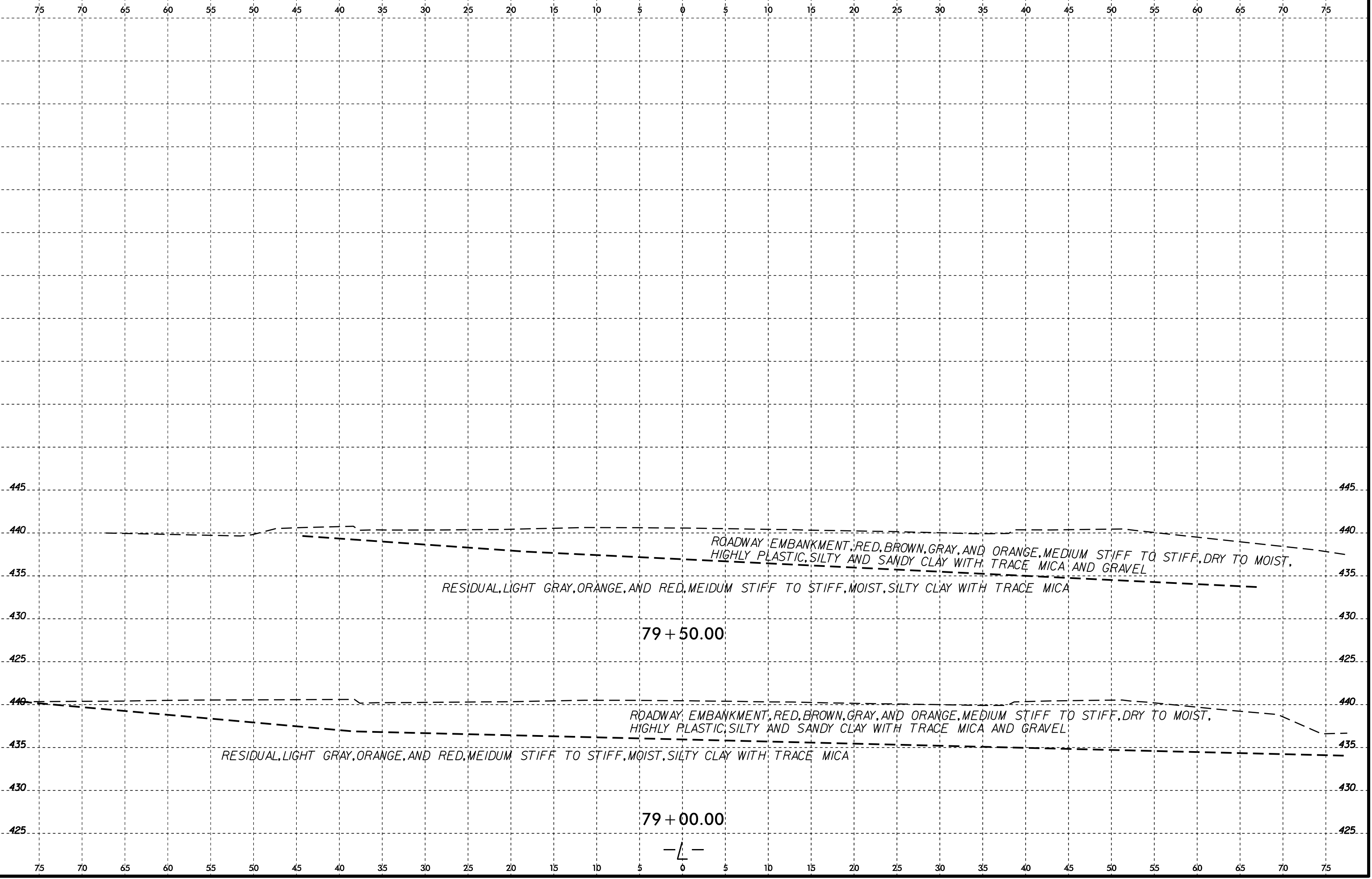
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							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-1	40' LT	76+50	0.0-0.5	A-6(5)	40	19	23.5	29.4	6.8	40.2	88	79	45	-	-
S-9	40' LT	76+50	2.5-3.0	A-6(2)	34	14	25.0	32.6	12.2	30.2	89	78	42	-	-
S-10	40' LT	76+50	4.0-4.5	A-7-6(5)	44	19	23.8	31.8	10.2	34.2	91	82	45	-	-
S-82	45' RT	76+50	0.5-1.0	A-7-5(10)	56	26	22.6	21.4	17.7	38.3	90	79	51	26	-
S-83	45' RT	76+50	2.0-2.5	A-7-5(44)	88	49	6.9	12.5	18.1	62.6	97	95	79	33	-



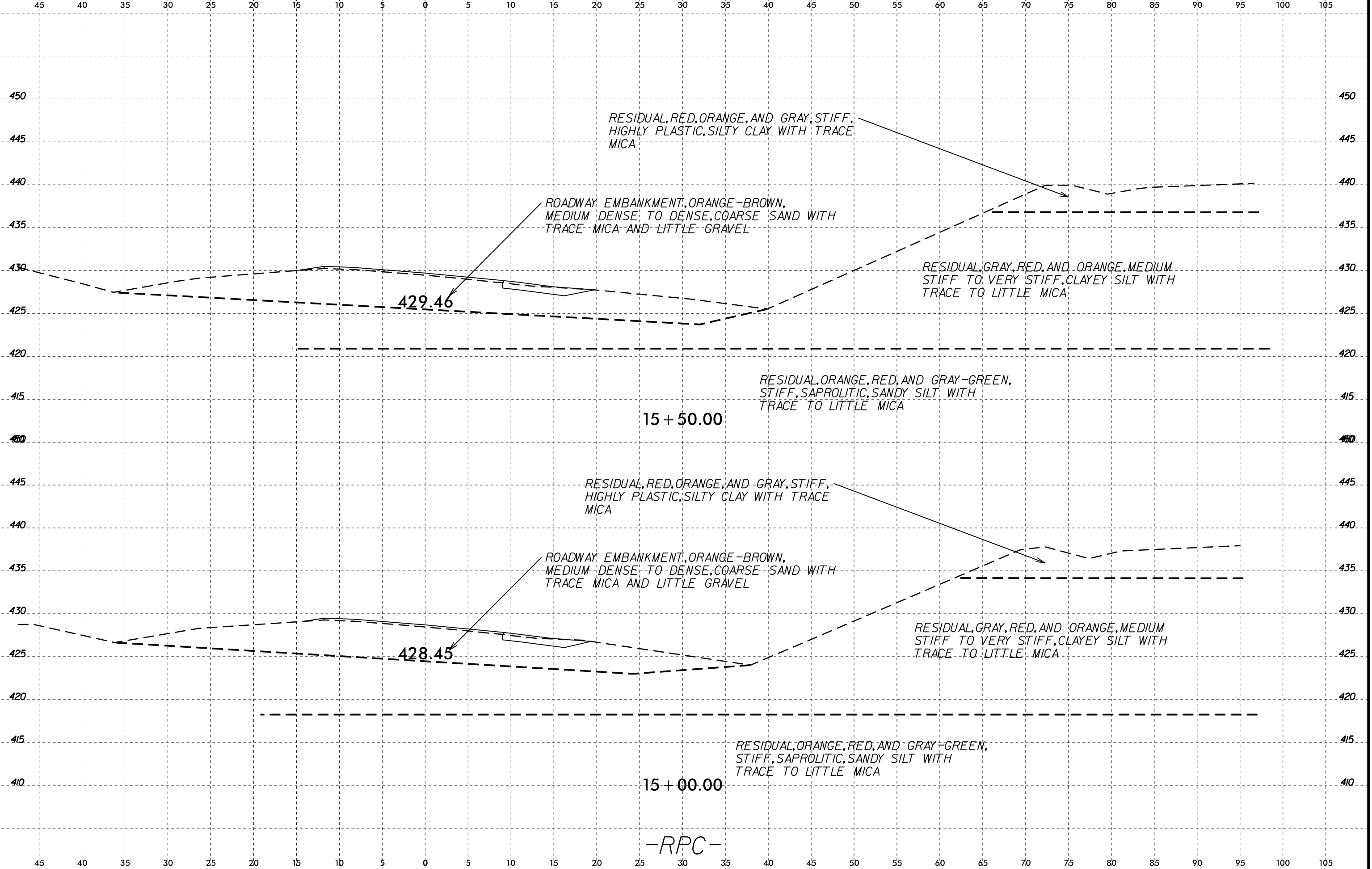
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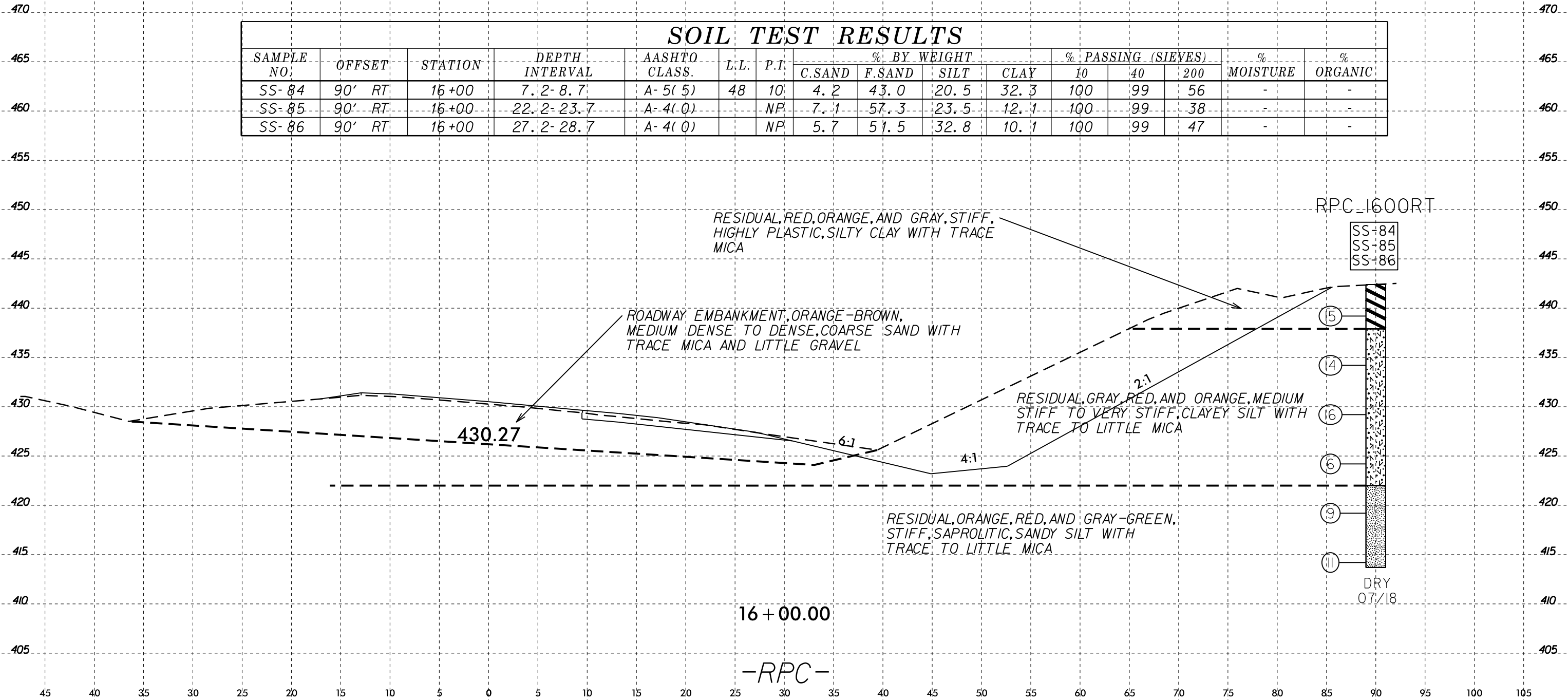


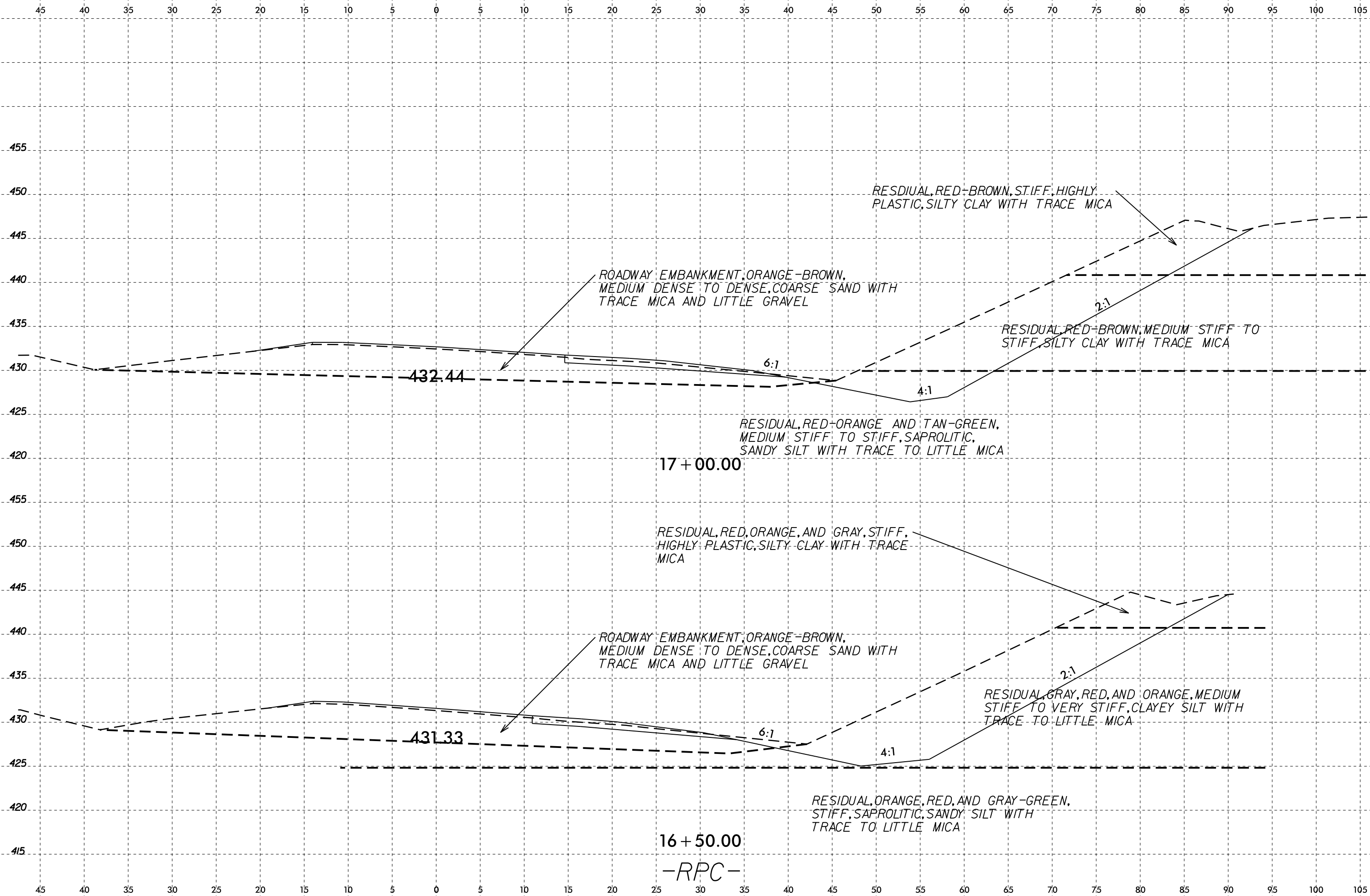
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SOIL TEST RESULTS

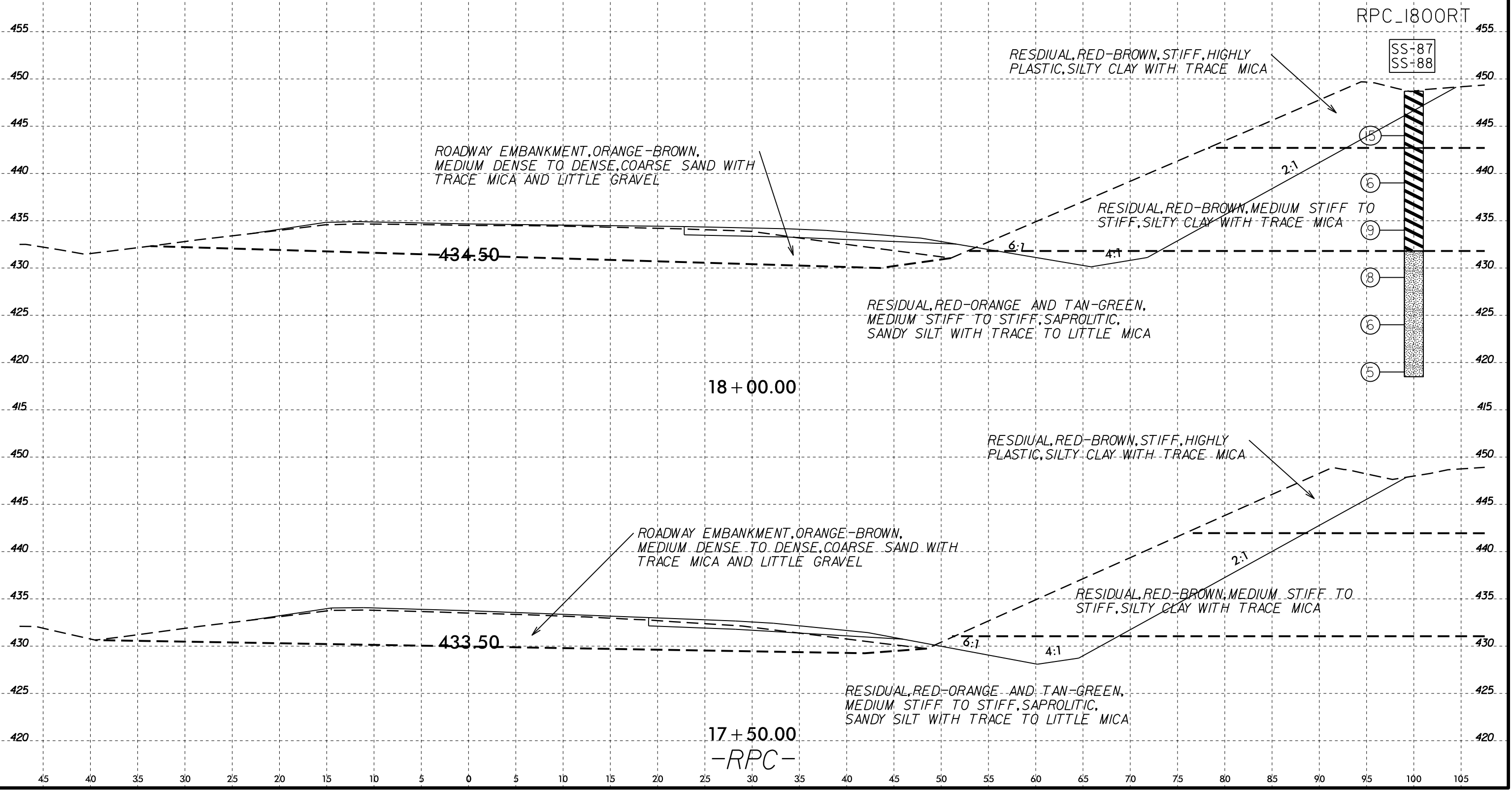
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-84	90' RT	16+00	7.2-8.7	A-5(5)	48	10	4.2	43.0	20.5	32.3	100	99	56	-	-
SS-85	90' RT	16+00	22.2-23.7	A-4(0)		NP	7.1	57.3	23.5	12.1	100	99	38	-	-
SS-86	90' RT	16+00	27.2-28.7	A-4(0)		NP	5.7	51.5	32.8	10.1	100	99	47	-	-

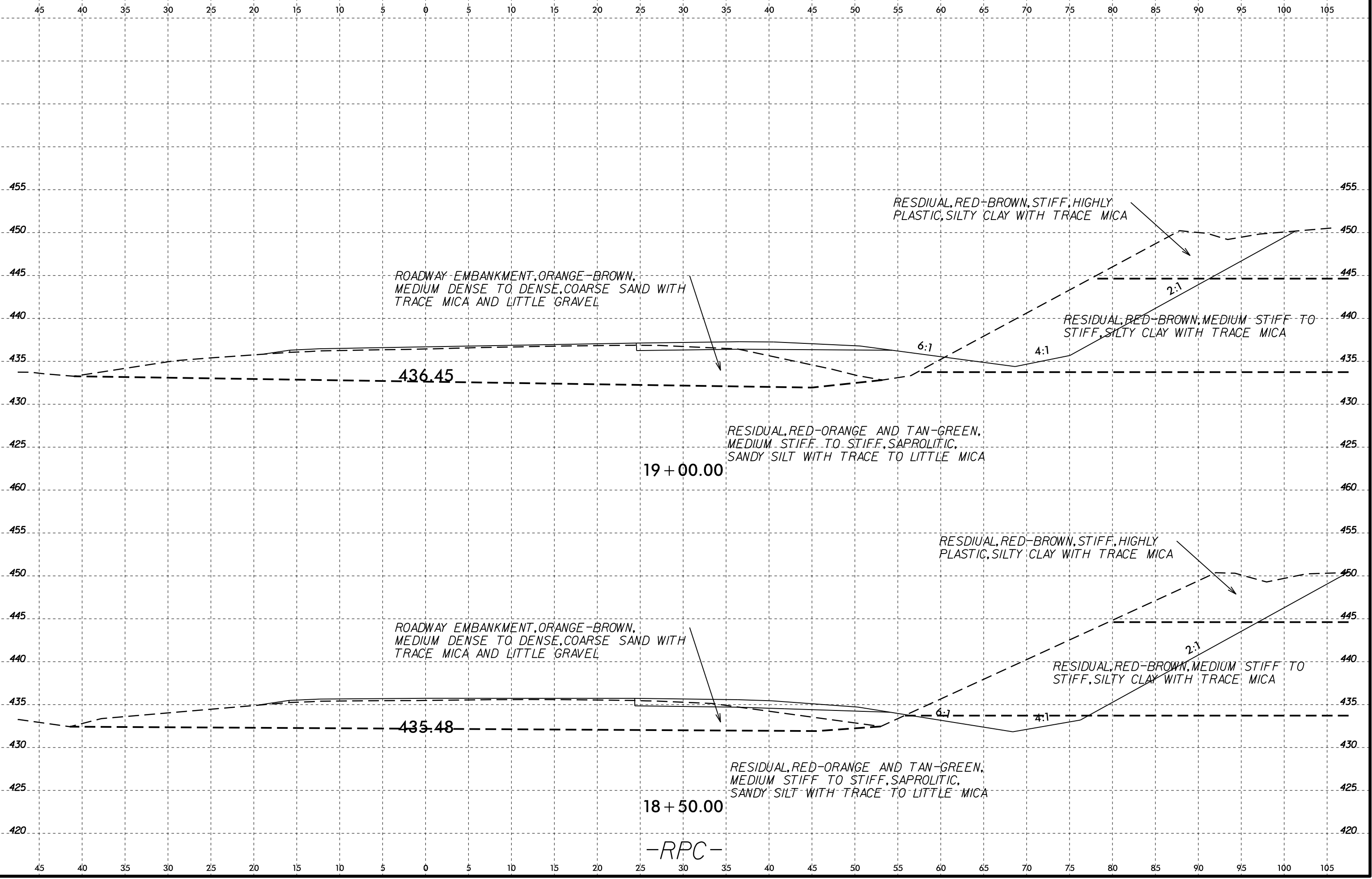




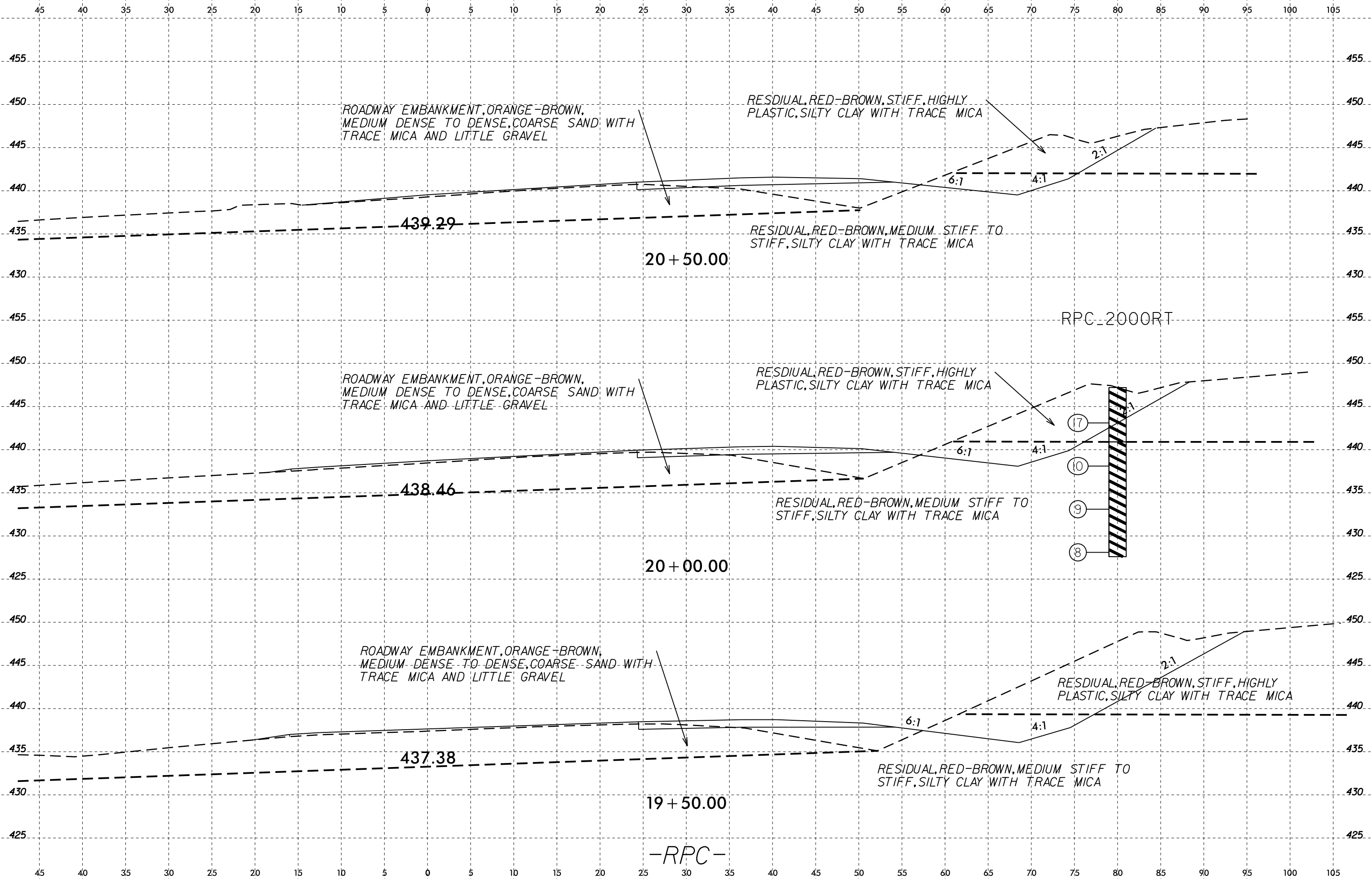
SOIL TEST RESULTS

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-87	100' RT	18+00	3.7-9.2	A-7-5(22)	63	31	5.0	26.4	18.1	50.5	99	96	68	-	-
SS-88	100' RT	18+00	8.7-10.2	A-7-5(21)	60	24	2.6	24.4	28.6	44.4	100	99	76	-	-



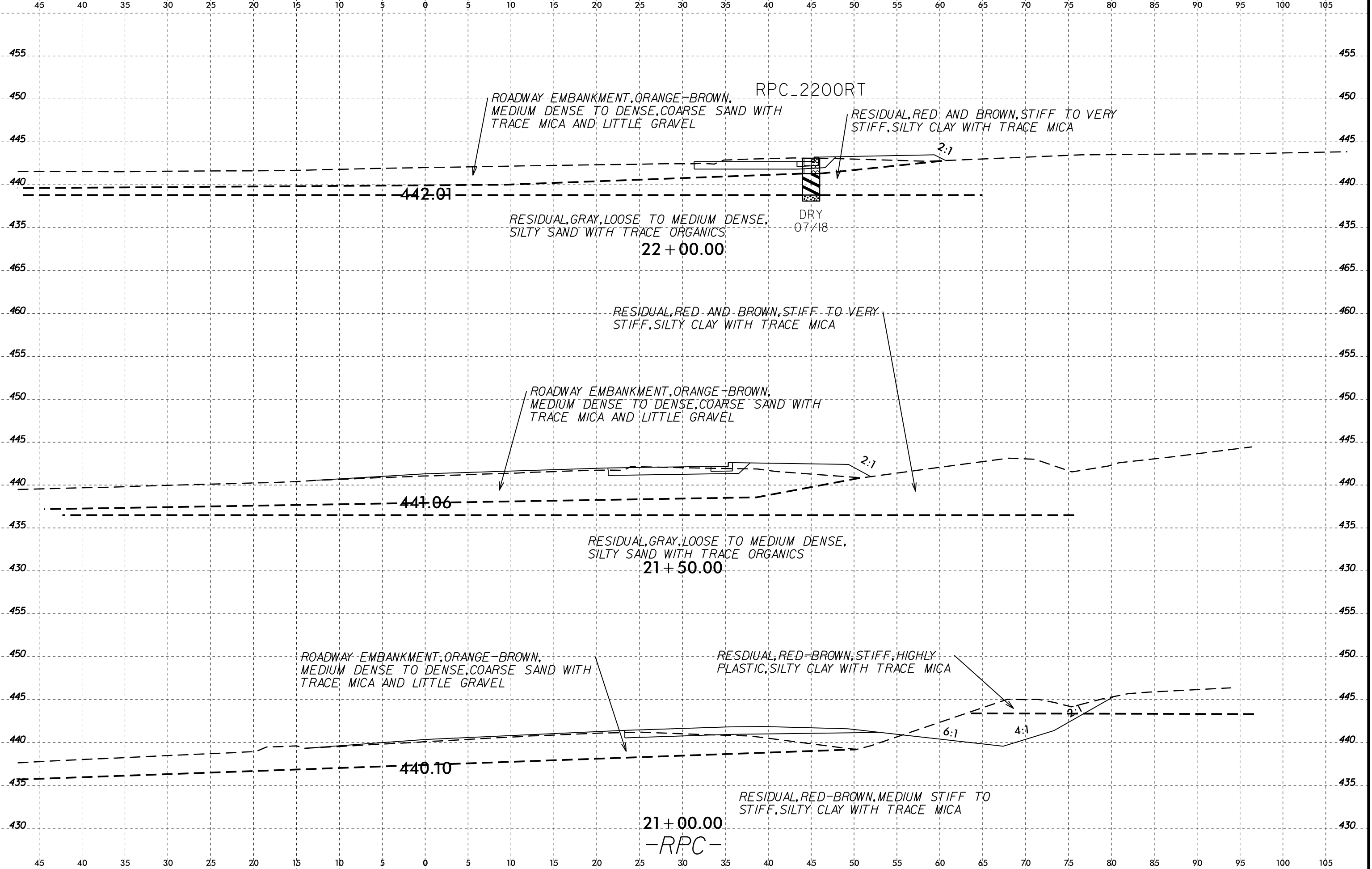


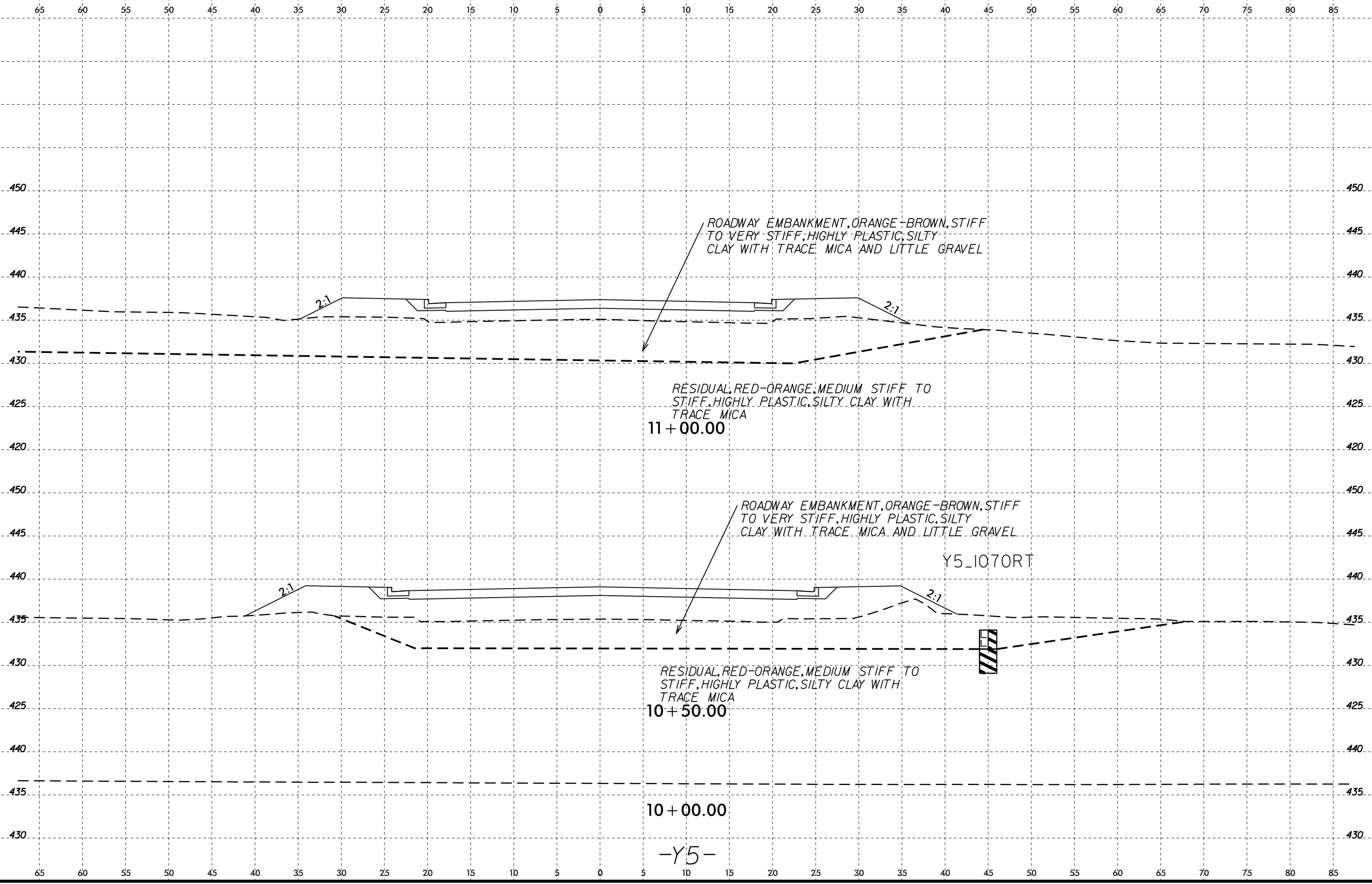
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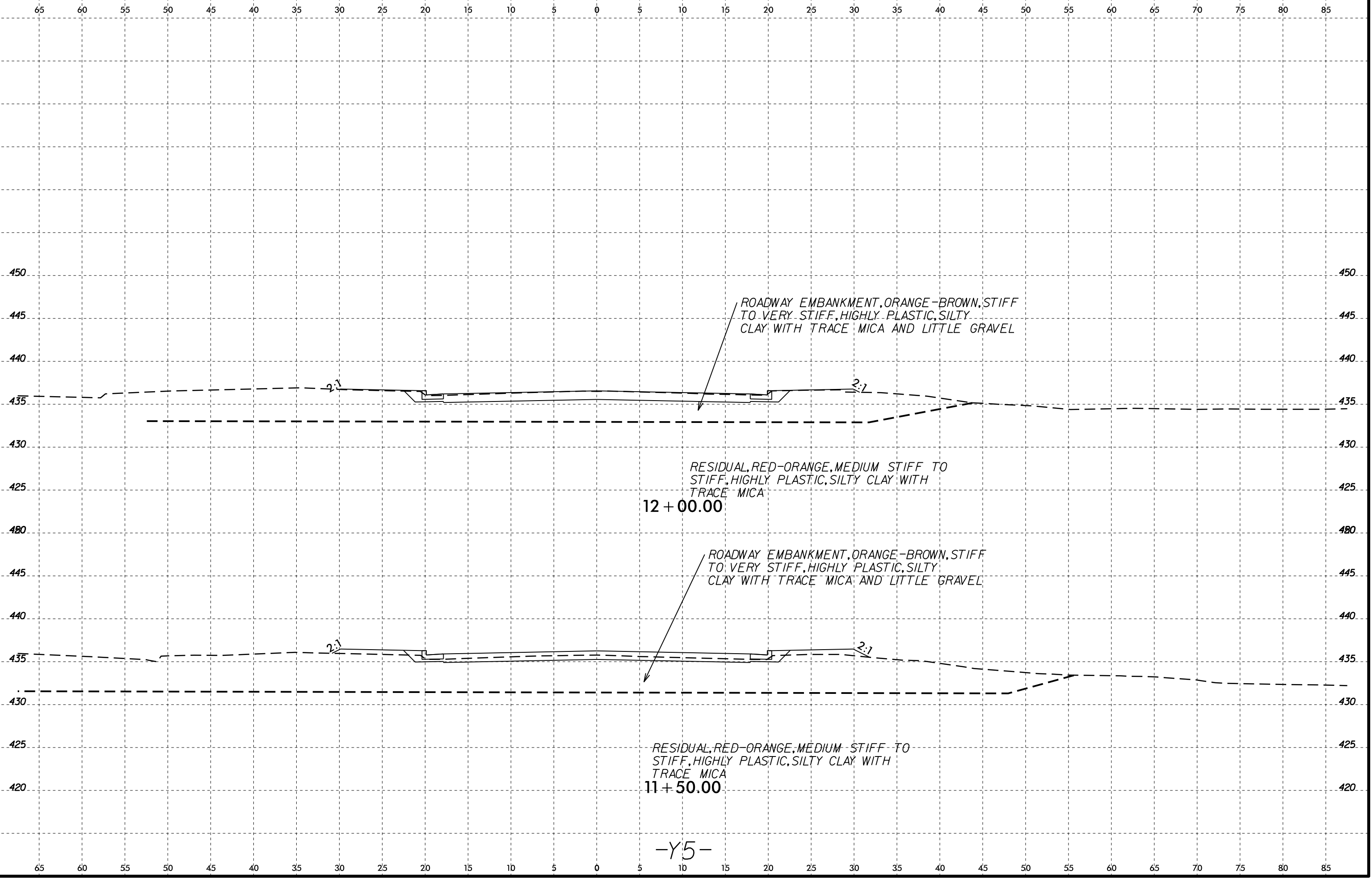
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ROADWAY EMBANKMENT, ORANGE-BROWN, STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY CLAY WITH TRACE MICA AND LITTLE GRAVEL

RESIDUAL, RED-ORANGE, MEDIUM STIFF TO STIFF, HIGHLY PLASTIC, SILTY CLAY WITH TRACE MICA

12 + 00.00

ROADWAY EMBANKMENT, ORANGE-BROWN, STIFF TO VERY STIFF, HIGHLY PLASTIC, SILTY CLAY WITH TRACE MICA AND LITTLE GRAVEL

RESIDUAL, RED-ORANGE, MEDIUM STIFF TO STIFF, HIGHLY PLASTIC, SILTY CLAY WITH TRACE MICA

11 + 50.00

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