

REFERENCE: U-5319

PROJECT: 45433

SEE SHEET 3 FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

CONTENTS

LINE	STATION	PLAN	PROFILE
-L-	25+00 - 42+00	4-5	8
-Y-	89+50 - 108+50	6-7	9

CROSS SECTIONS

LINE	STATION	SHEETS
-L-	25+00 - 42+00	10-15
-Y-	89+50 - 108+50	16-25

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

**ROADWAY
 SUBSURFACE INVESTIGATION**

COUNTY ONSLOW
 PROJECT DESCRIPTION INTERSECTION OF SR 1308
 (GUM BRANCH ROAD) AND NC 53 (WESTERN
 BOULEVARD)

RECOMMENDATIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5319	1	25

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

J.K. CRENSHAW

R.E. SMITH

J.M. EDMONSON

INVESTIGATED BY T.C. BOTTOMS

DRAWN BY J.K. CRENSHAW

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE AUGUST 2016



DocuSigned by:
 Michael Valiquette 9/29/2016
 20FDC306E2F840B...



DocuSigned by:
 Tyler Bottoms 9/29/2016
 48A2D3BD08CF4A6...
 SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table with 4 main columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, and TERMS AND DEFINITIONS. Includes sub-sections like SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, GRADATION, ANGULARITY OF GRAINS, MINERALOGICAL COMPOSITION, COMPRESSIBILITY, PERCENTAGE OF MATERIAL, GROUND WATER, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, ROCK HARDNESS, FRACTURE SPACING, BEDDING, INDURATION, and BENCH MARK.

See Sheet 1-A For Index of Sheets

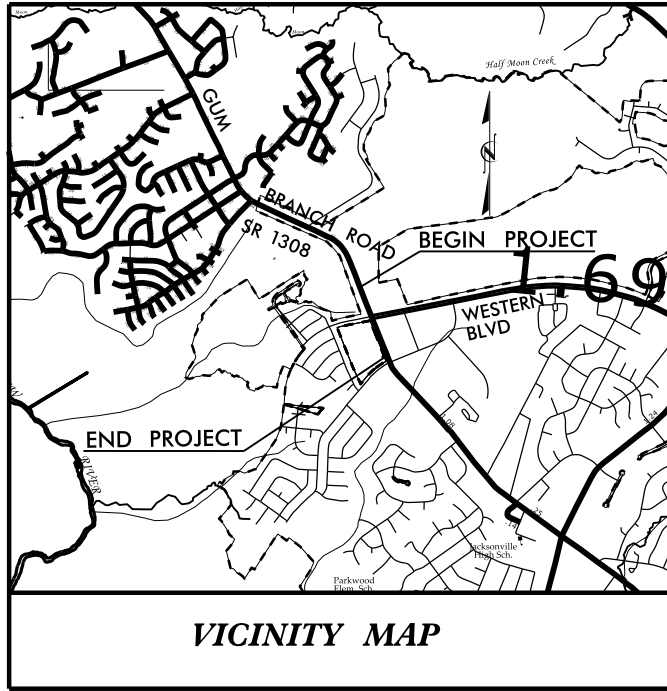
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ONSLOW COUNTY

**LOCATION: INTERSECTION OF SR 1308 (GUM BRANCH ROAD)
AND NC 53 (WESTERN BOULEVARD)**

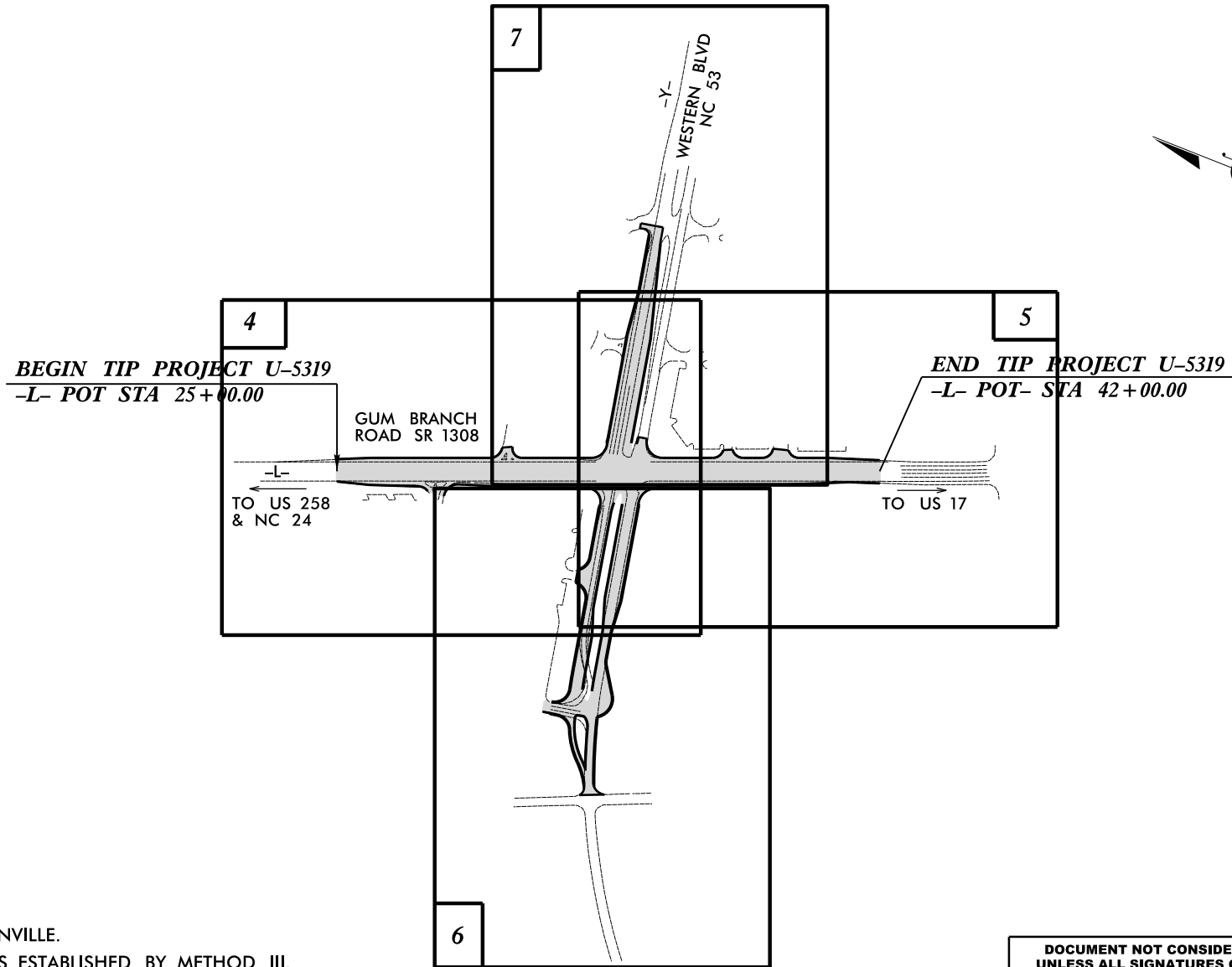
TYPE OF WORK: GRADING, DRAINAGE AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5319	3	25
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45433.1.1	HPPSTP-1308(013)	PE	



25% PLAN SUBMITTAL

TIP PROJECT: U-5319

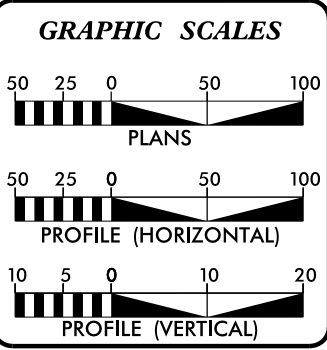


THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF JACKSONVILLE.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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

CONTRACT:



DESIGN DATA

ADT 2012 =	28,100
ADT 2040 =	49,200
DHV =	8%
D =	60%
T =	4% *
V =	50 MPH
* TTST=	1% DUAL= 3%
FUNC CLASS =	MINOR ARTERIAL REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-5319 =	0.322 MILES
TOTAL LENGTH OF TIP PROJECT U-5319 =	0.322 MILES

Prepared In the Office of:

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 13, 2017

LETTING DATE:
SEPTEMBER 17, 2019

DAVID W. BASS, PE
PROJECT ENGINEER

MONICA DUVAL
PROJECT ROADWAY DESIGNER

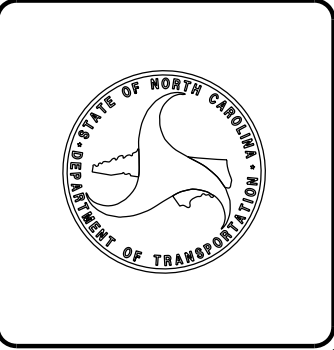
DAVID B. LEONARD, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

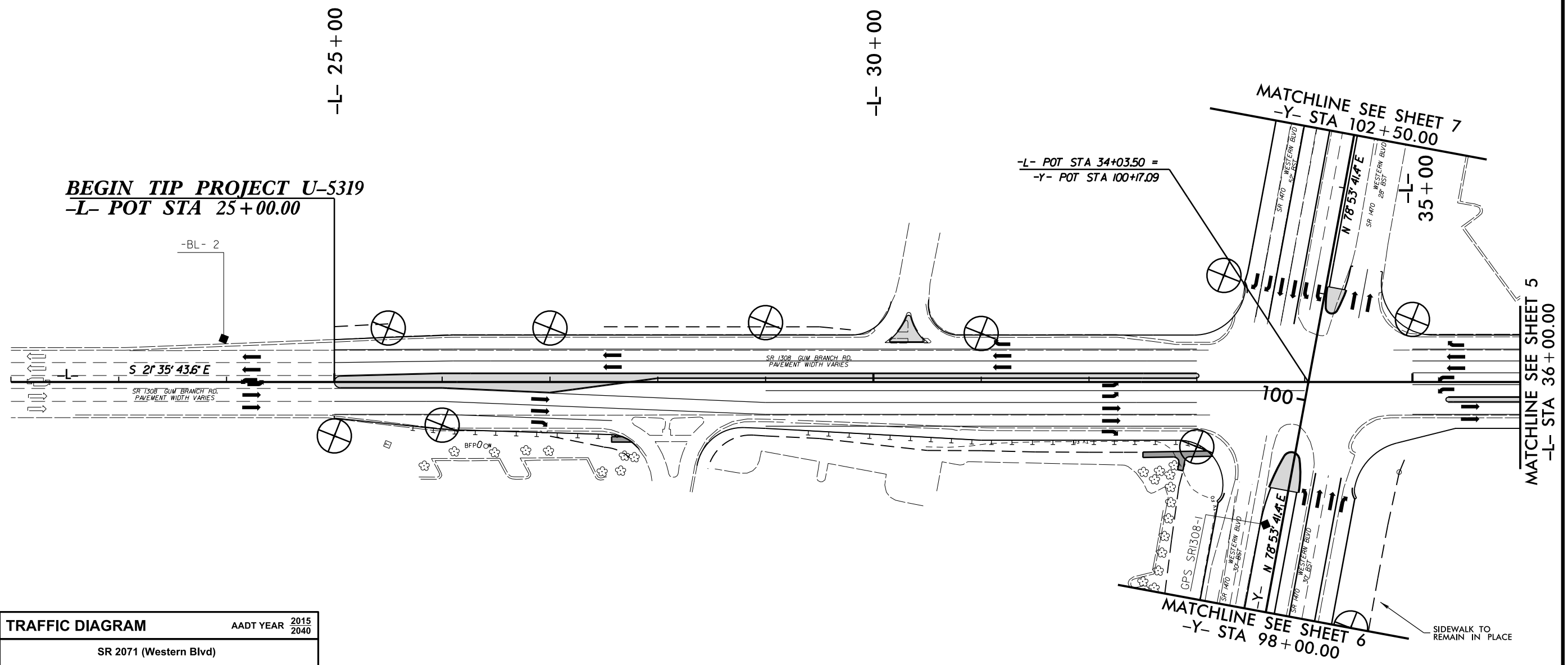
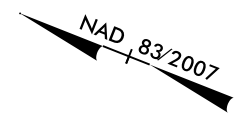
ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.



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PROJECT REFERENCE NO. U-5319	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

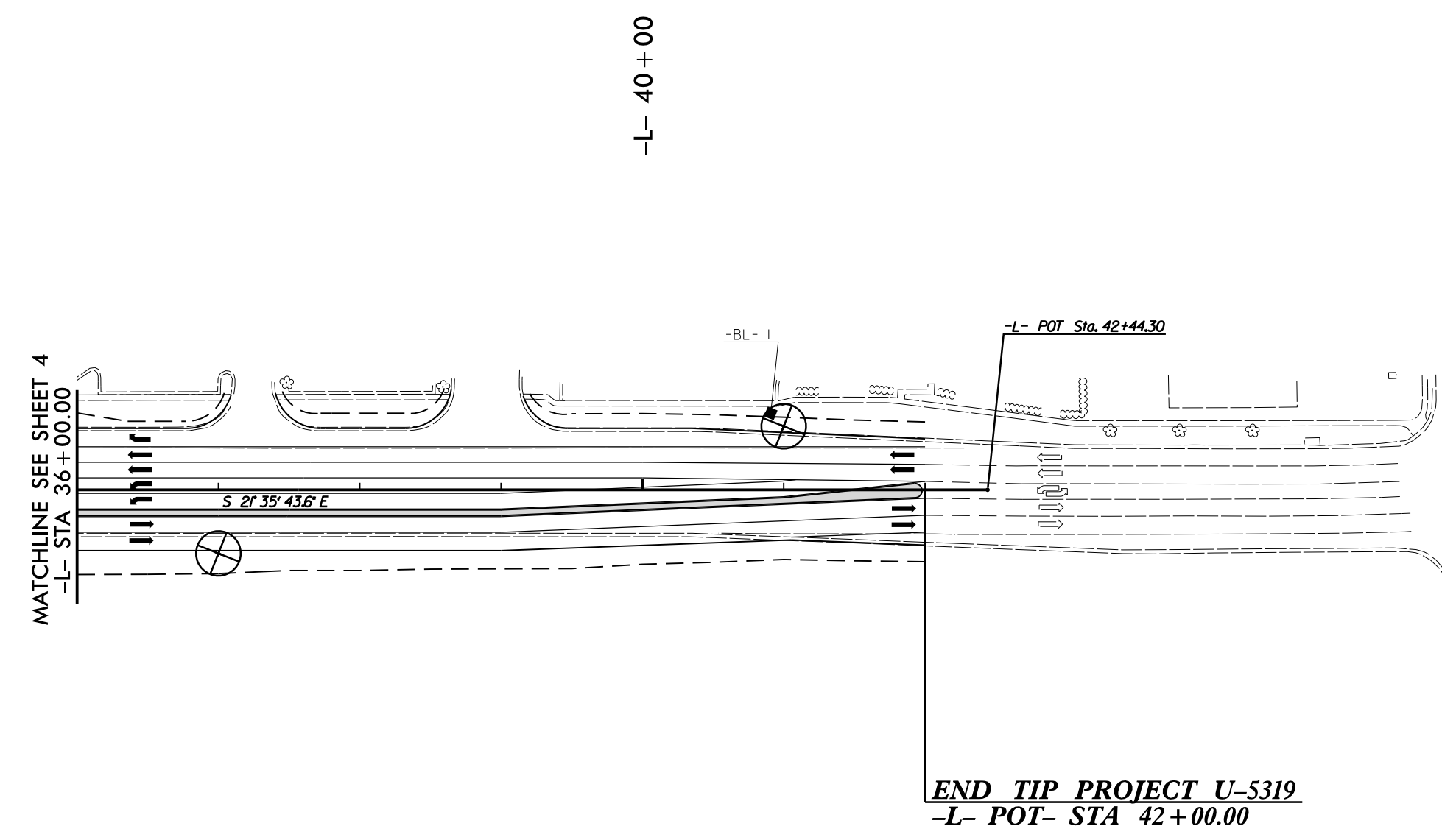


TRAFFIC DIAGRAM		AADT YEAR	
		2015	2040
SR 2071 (Western Blvd)			
14,200 / 24,000			
10,000 / 16,900		3,000 / 5,100	
SR 1308 (Gum Branch Rd) 28,300 / 52,600		SR 1308 (Gum Branch Rd) 21,500 / 41,200	
500 / 800		700 / 1,200	
2,400 / 4,000			
SR 2071 (Western Blvd)			

FOR -L- PROFILE, SEE SHEET 8
FOR -Y- PROFILE, SEE SHEET 9

5/14/99
31-AUG-2016 07:53
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PROJECT REFERENCE NO. U-5319	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE SEE SHEET 4
-L- STA 36+00.00

-L- 40+00

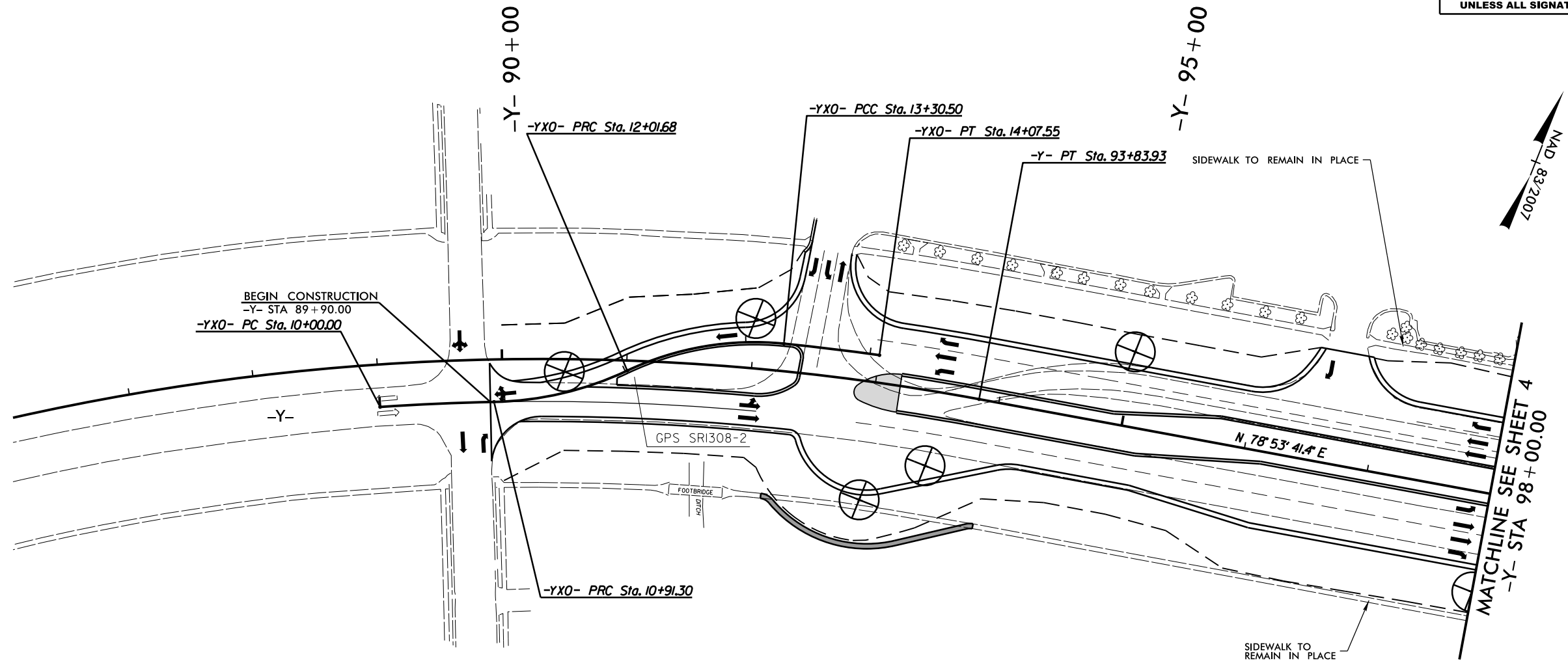
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END TIP PROJECT U-5319
-L- POT- STA 42+00.00

FOR -L- PROFILE, SEE SHEET 8

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PROJECT REFERENCE NO.	SHEET NO.
U-5319	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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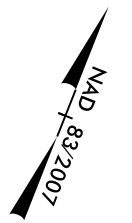
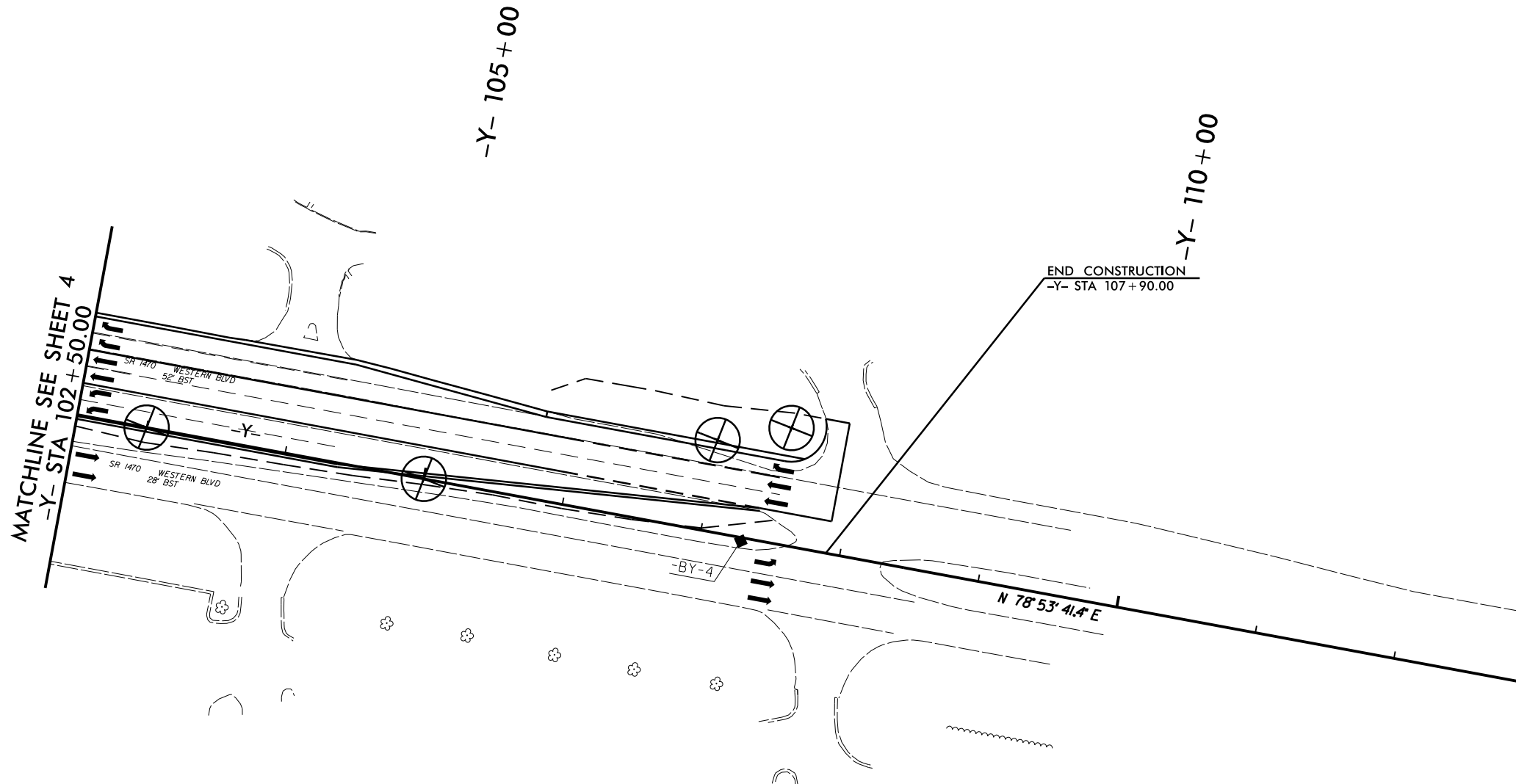


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 -Y- STA 98+00.00

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FOR -Y- PROFILE, SEE SHEET 9
 FOR -YXO- PROFILE, SEE SHEET 10

PROJECT REFERENCE NO.	SHEET NO.
U-5319	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



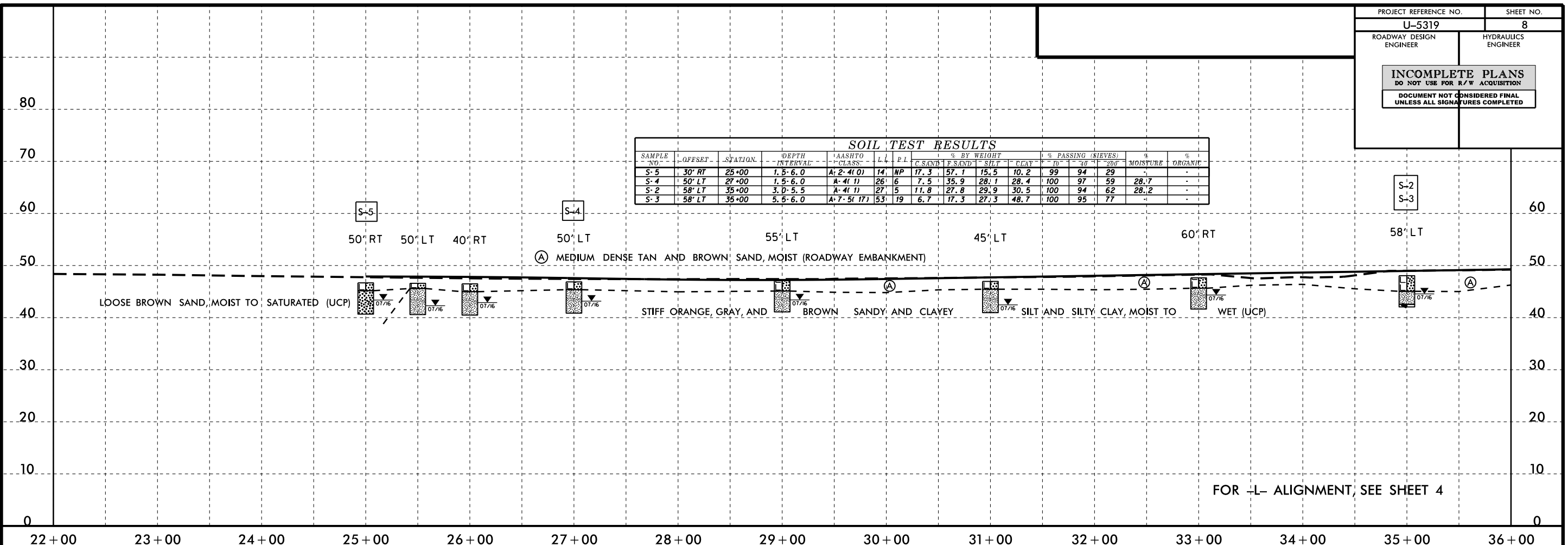
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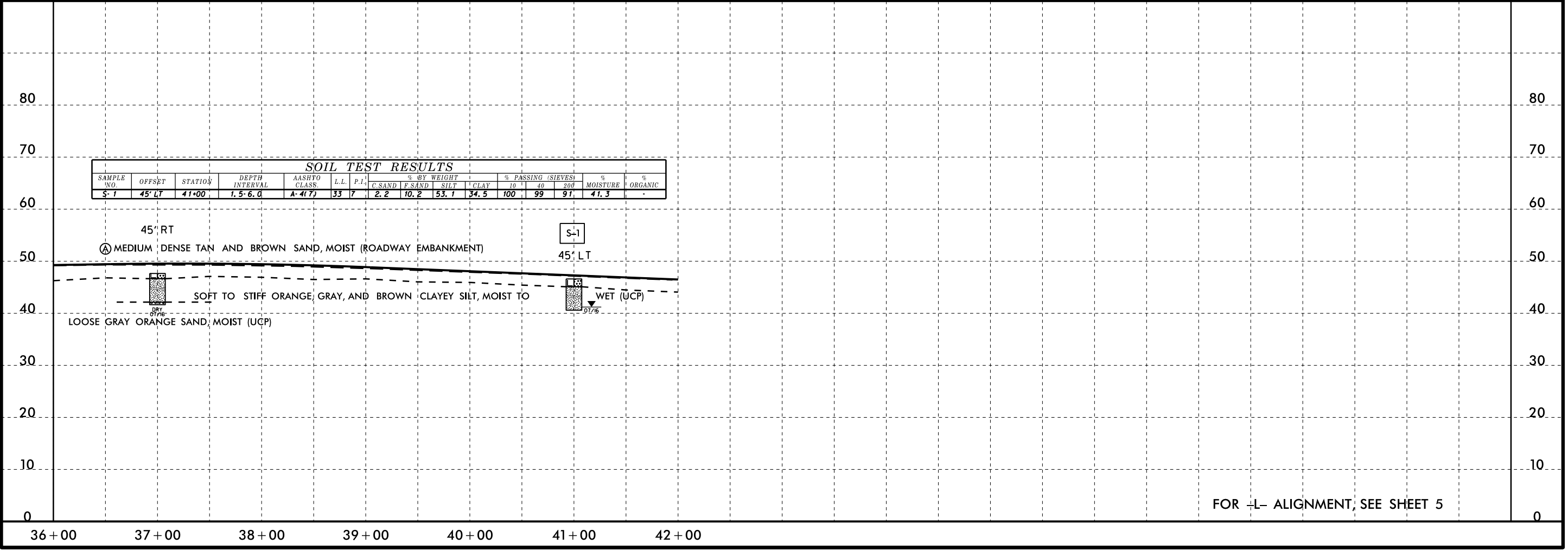
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PROJECT REFERENCE NO. U-5319	SHEET NO. 8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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-5	30' RT	25+00	1.5-6.0	A-2-4(0)	14	NP	17.3	57.1	15.5	10.2	99	94	29	-	-
S-4	50' LT	27+00	1.5-6.0	A-4(1)	26	6	7.5	35.9	28.1	28.4	100	97	59	28.7	-
S-2	58' LT	35+00	3.0-5.5	A-4(1)	27	5	11.8	27.8	29.9	30.5	100	94	62	28.2	-
S-3	58' LT	35+00	5.5-6.0	A-7-5(17)	53	19	6.7	17.3	27.3	48.7	100	95	77	-	-



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-1	45' LT	41+00	1.5-6.0	A-4(7)	33	7	2.2	10.2	53.1	34.5	100	99	91	41.3	-



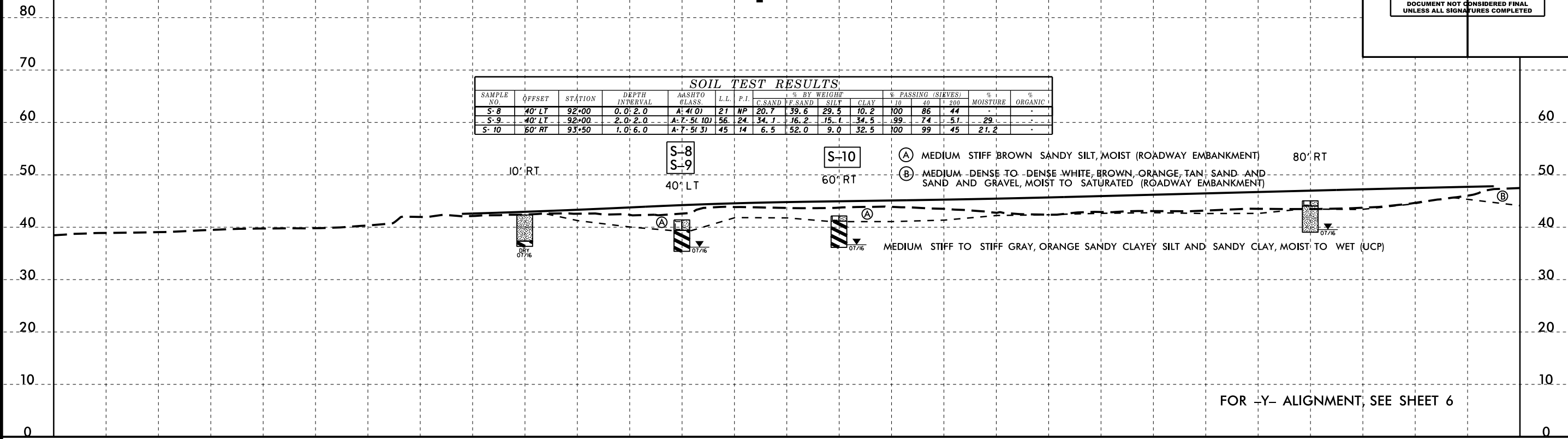
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5/28/99

PROJECT REFERENCE NO. U-5319	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-Y-

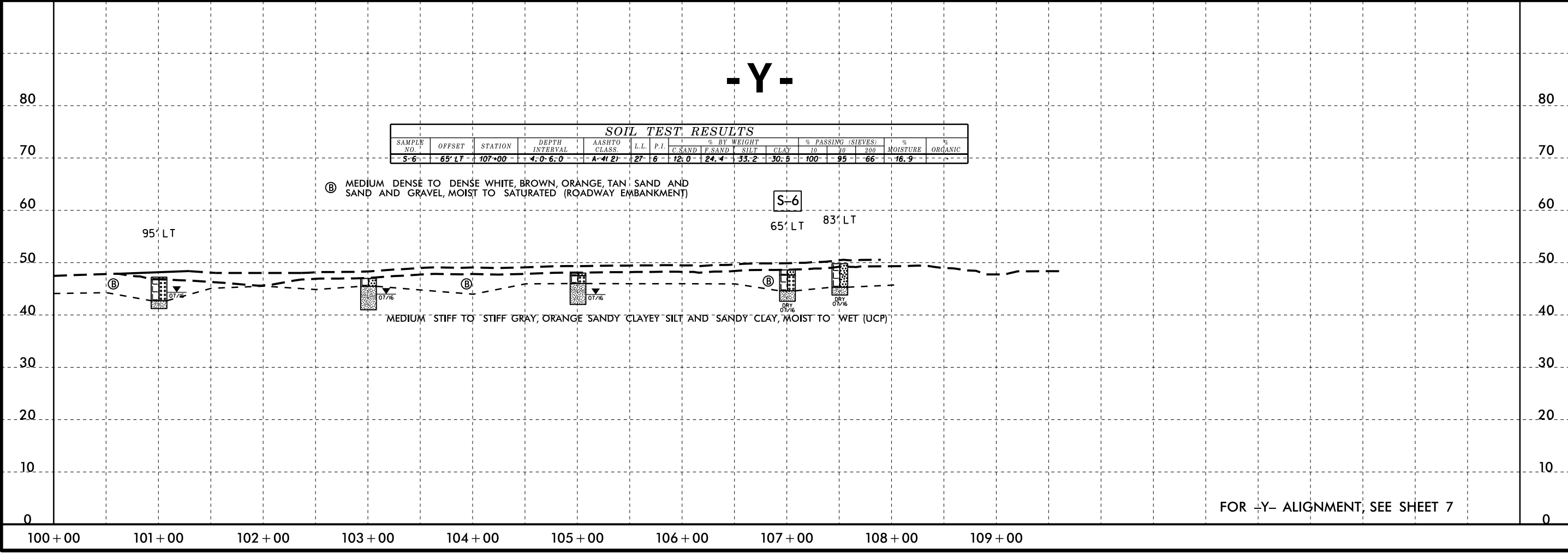
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
S-8	40' LT	92+00	0.0' 2.0'	A-4(0)	21	NP	20.7	39.6	29.5	10.2	100	86	44	-	-
S-9	40' LT	92+00	2.0' 2.0'	A-7.5(10)	56	24	34.1	16.2	15.1	34.5	99	74	51	29	-
S-10	60' RT	93+50	1.0' 6.0'	A-7.5(3)	45	14	6.5	52.0	9.0	32.5	100	99	45	21.2	-



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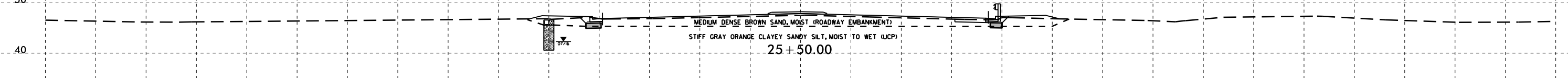
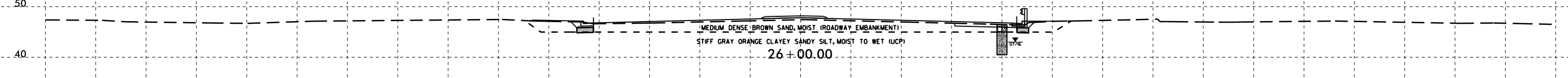
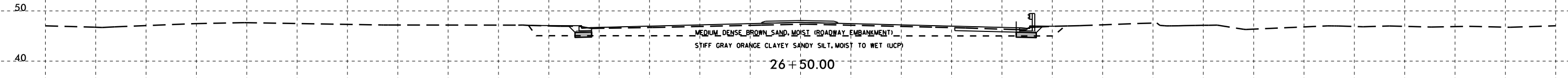
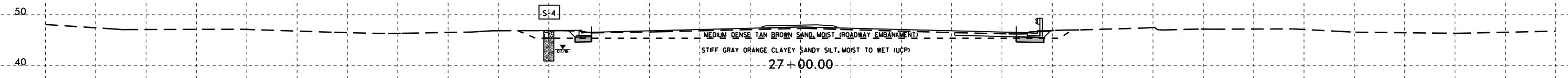
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
S-6	65' LT	107+00	4.0' 6.0'	A-4(2)	27	16	12.0	24.4	33.2	30.5	100	95	66	16.9	-

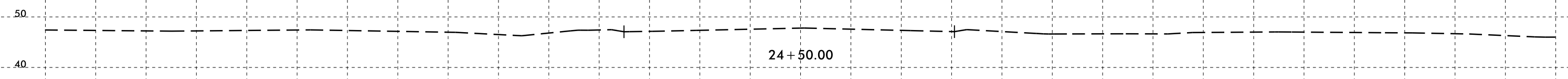
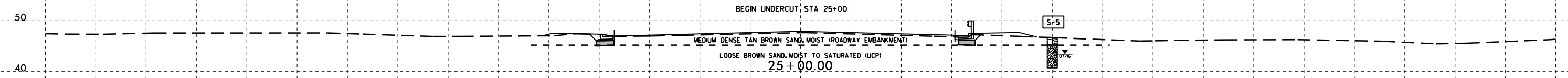


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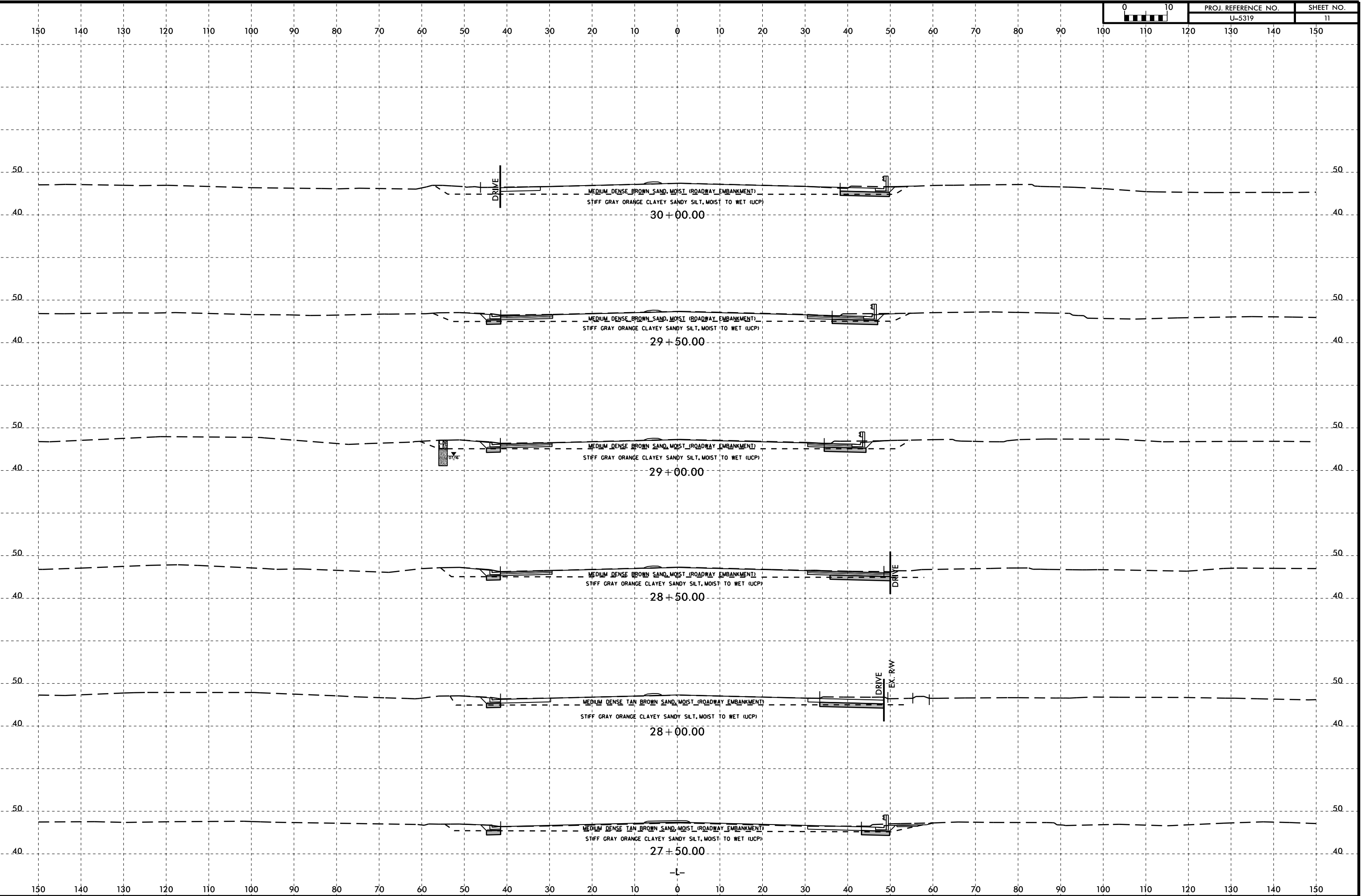
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			MOISTURE	ORGANIC	
							% SAND	% SANDY SILT	% CLAY	#10	#40	#200			
S-4	50' LT	27+00	1.5-6.0	A-4(1)	26	6	7.5	35.9	28.7	28.4	100	97	59	28.7	-

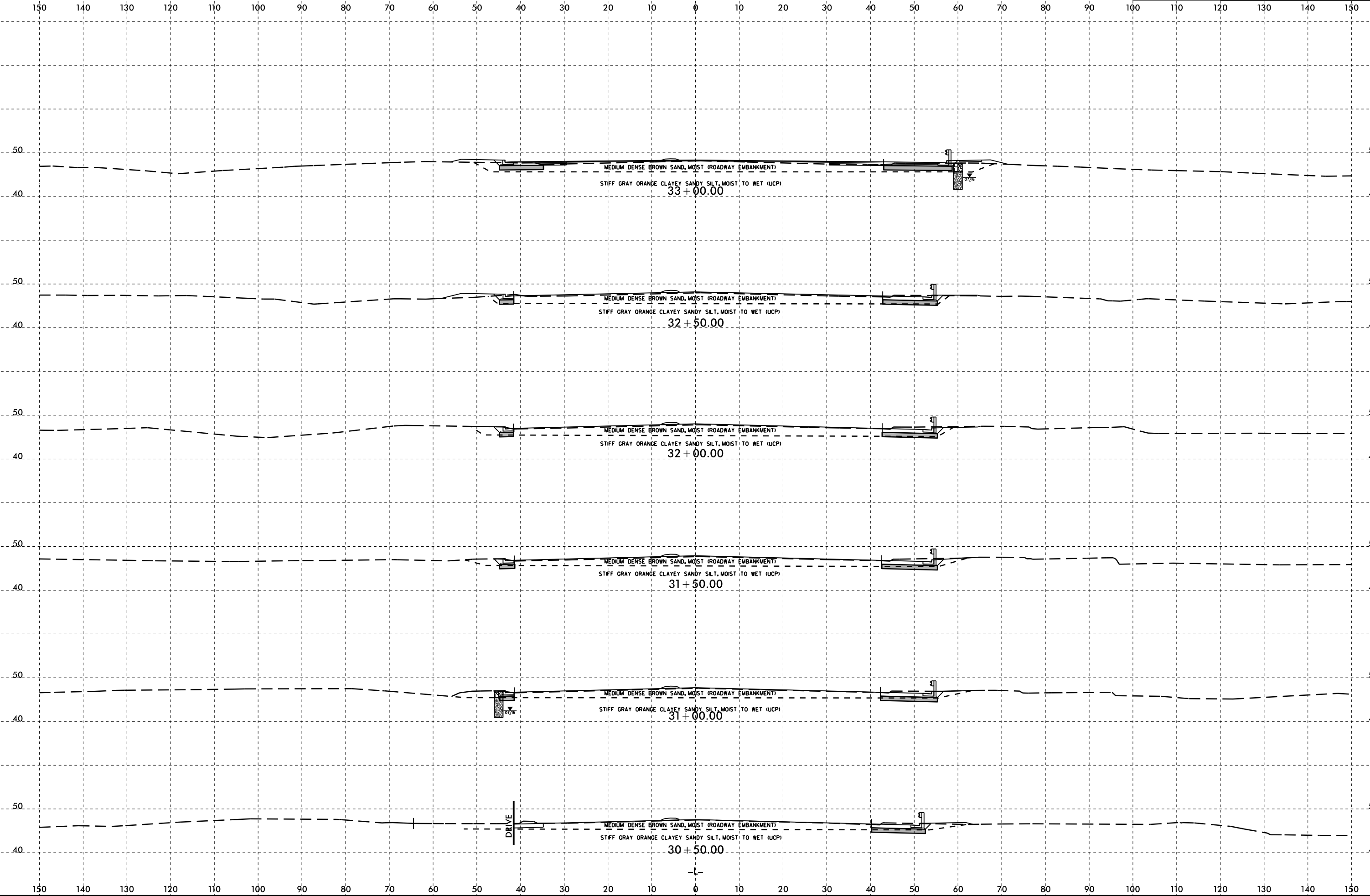


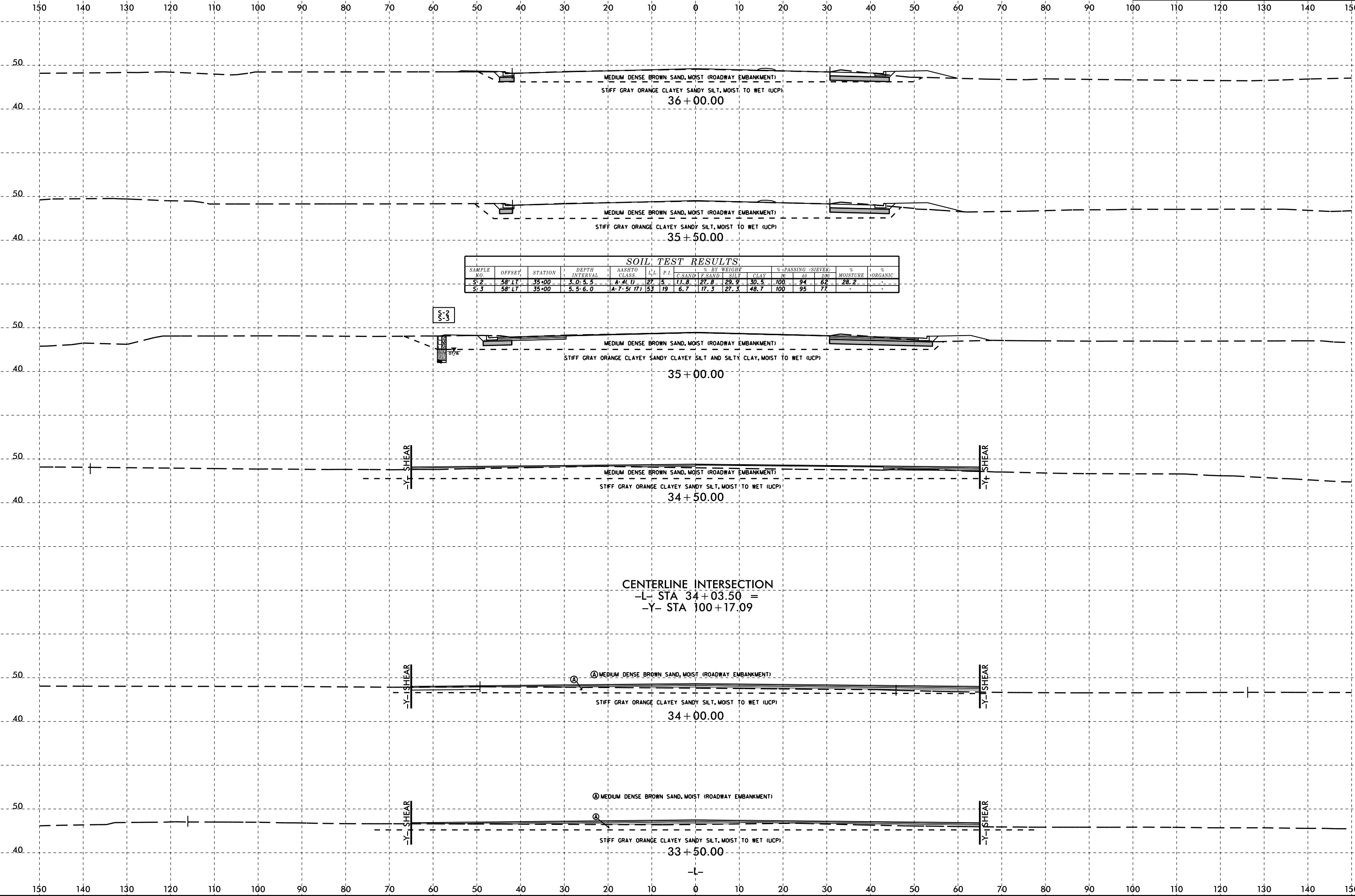
SOIL TEST RESULTS														
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			MOISTURE	ORGANIC
							% SAND	% SANDY SILT	% CLAY	#10	#40	#200		
S-5	30' RT	25+00	1.5-6.0	A-2-4(D)	14	NP	77.3	15.5	10.2	99	94	29	-	-



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

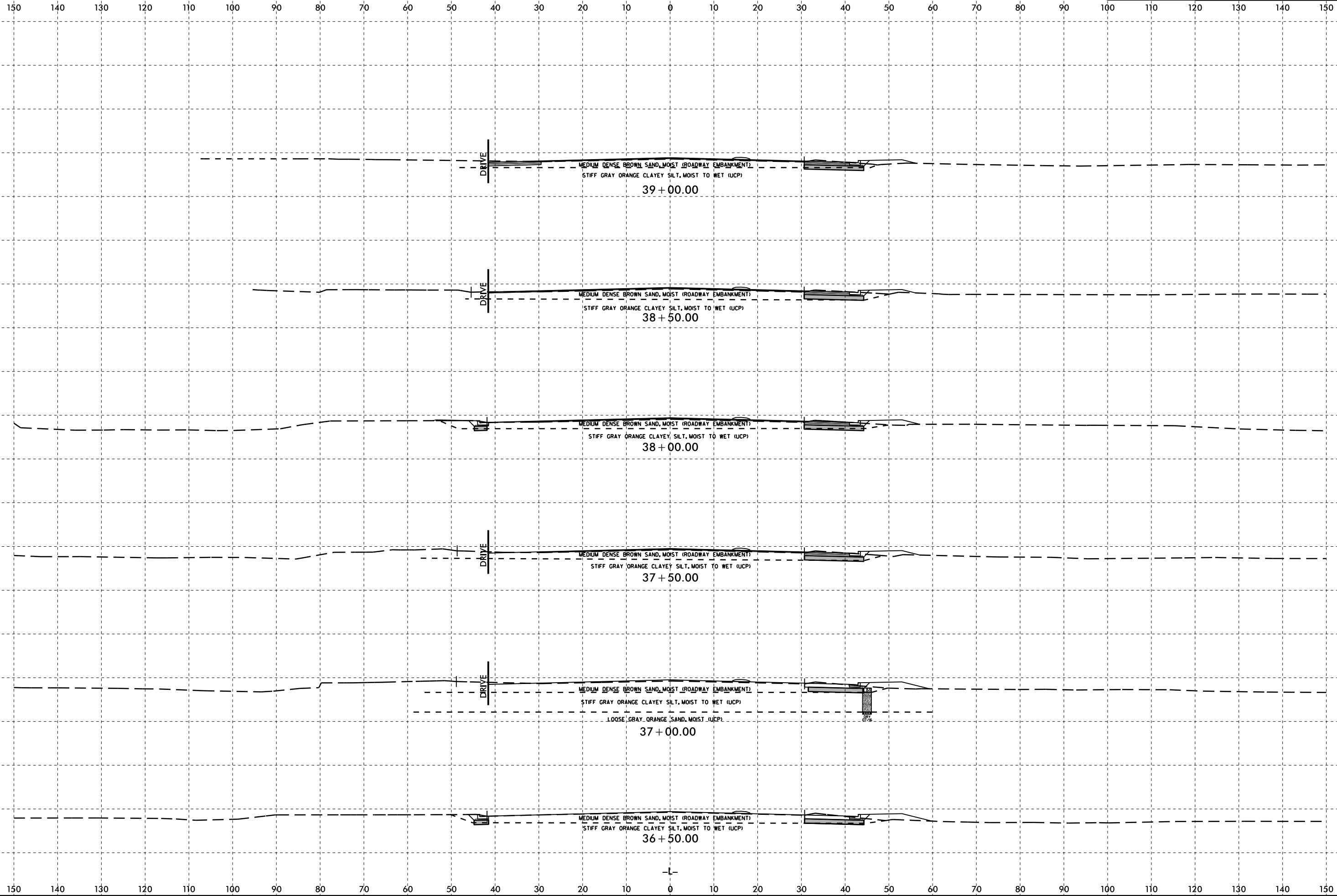


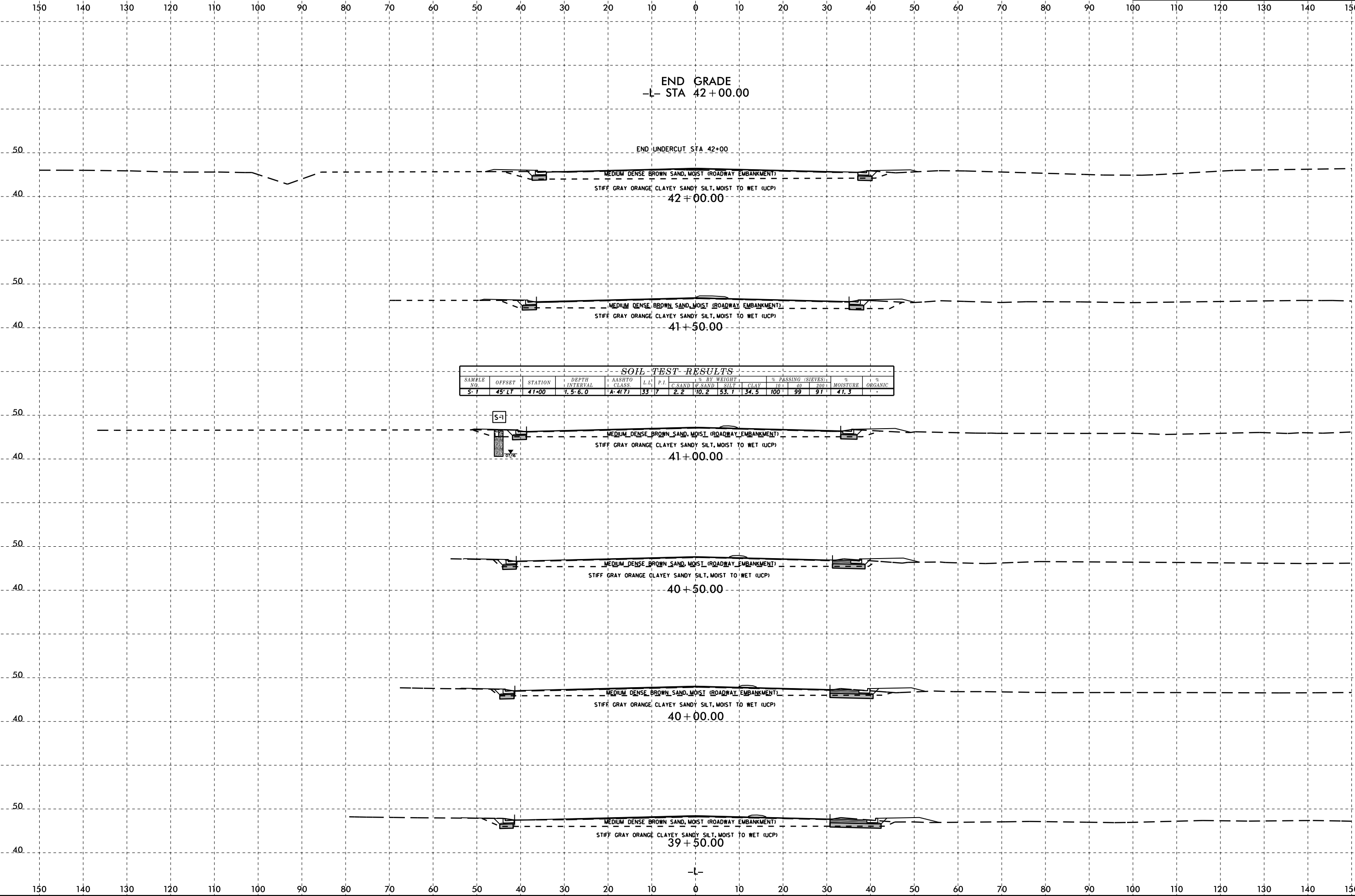




SOIL TEST RESULTS

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	58' LT	35+00	3.0-5.5	A-4(U)	27.5	11.8	27.8	29.9	30.5	100	94	62	28.2	-	
S-3	58' LT	35+00	5.5-6.0	A-7.5(17)	53	19	6.7	17.3	27.3	100	95	77	-	-	





END GRADE
-L- STA 42+00.00

END UNDERCUT STA 42+00

MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
42+00.00

MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
41+50.00

SOIL TEST RESULTS

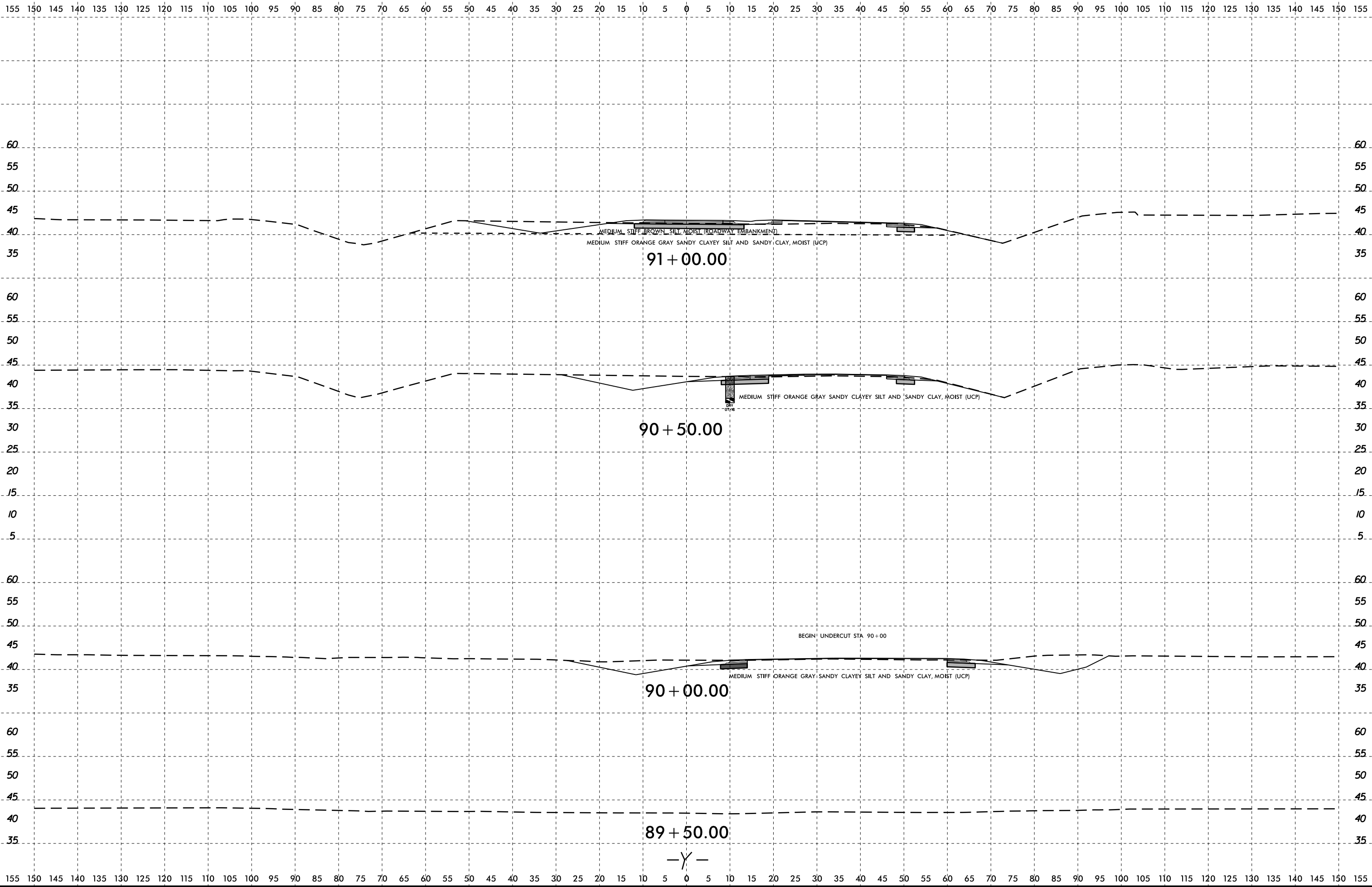
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				L.L.	P.I.	C SAND	F SAND	SILT	CLAY	10	40	200			
S-1	45' LT	41+00	1.5-6.0	A-4(7)	33	17	2.2	10.2	53.1	34.5	100	99	91	41.3	

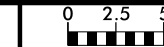
MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
41+00.00

MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
40+50.00

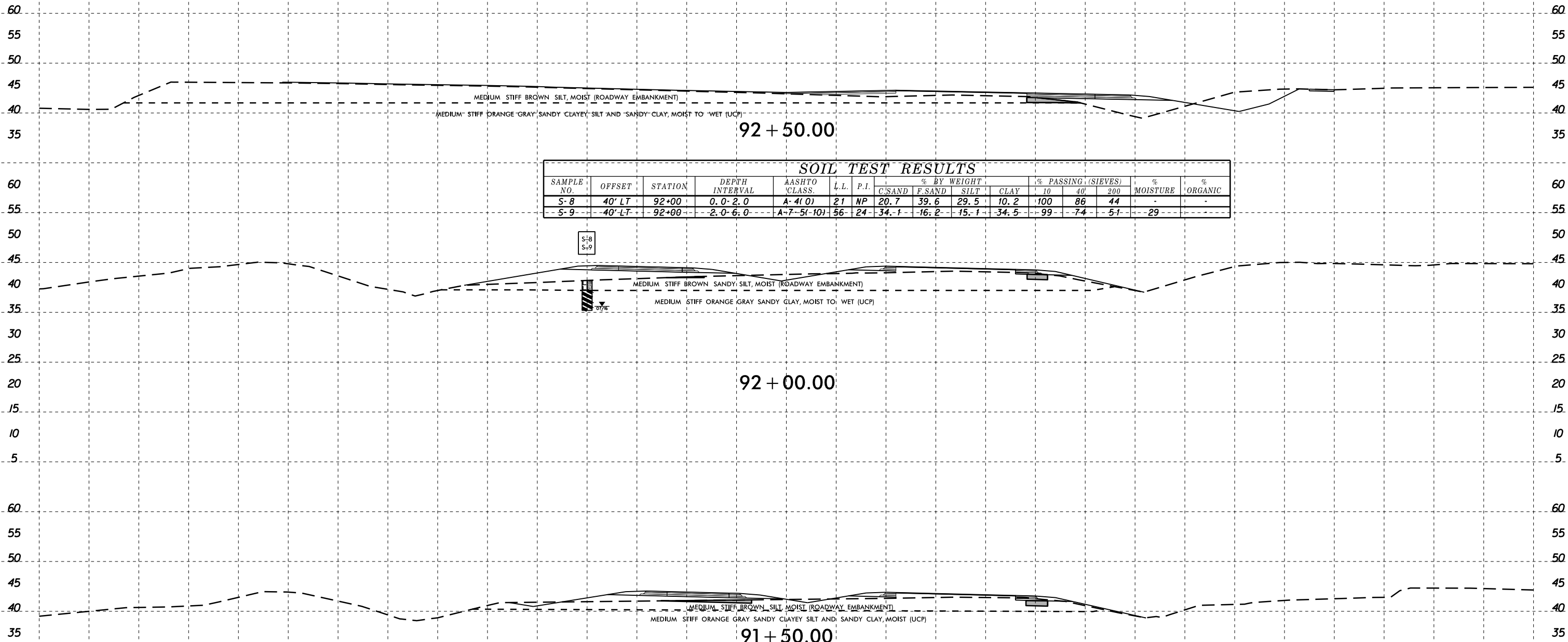
MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
40+00.00

MEDIUM DENSE BROWN SAND, MOIST (ROADWAY EMBANKMENT)
STIFF GRAY ORANGE CLAYEY SANDY SILT, MOIST TO WET (UCP)
39+50.00





155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155

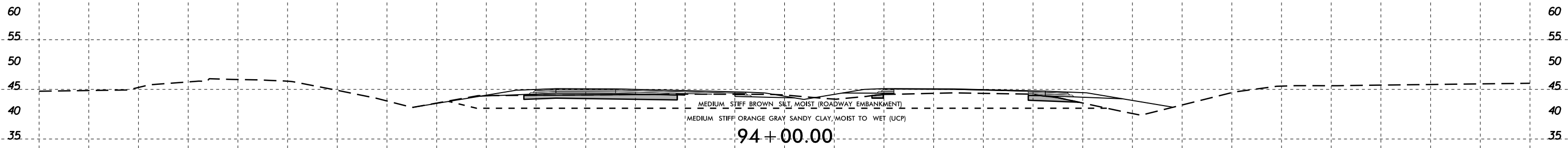


SOIL TEST RESULTS

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-8	40' LT	92+00	0.0-2.0	A-4(0)	21	NP	20.7	39.6	29.5	10.2	100	86	44	-	-
S-9	40' LT	92+00	2.0-6.0	A-7-5(10)	56	24	34.1	16.2	15.1	34.5	99	74	51	29	-

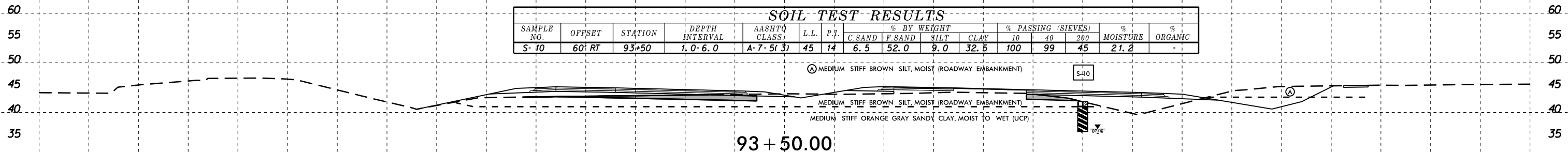
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155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155



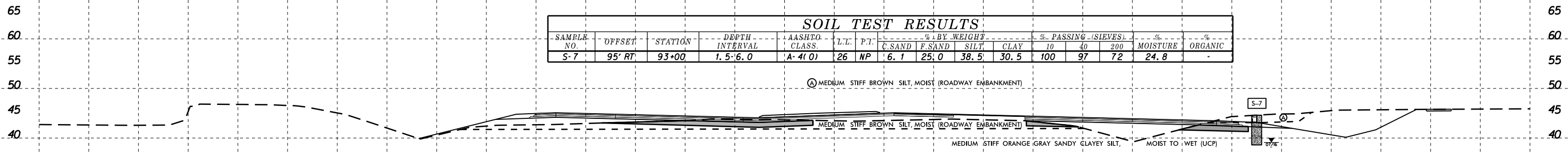
94 + 00.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-10	60' RT	93+50	1.0-6.0	A-7-5(3)	45	14	6.5	52.0	9.0	32.5	100	99	45	21.2	-



93 + 50.00

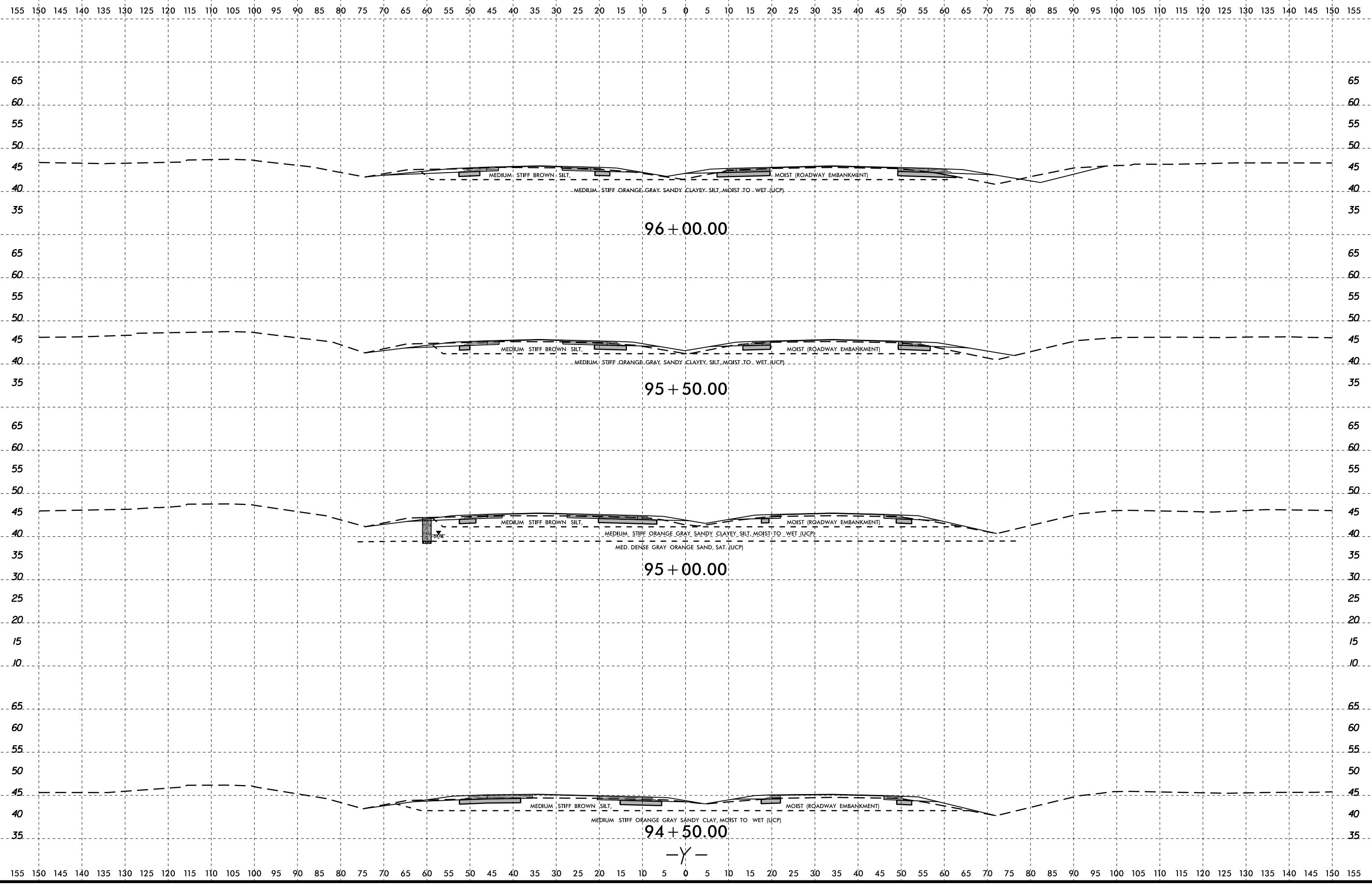
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-7	95' RT	93+00	1.5-6.0	A-4(0)	26	NP	6.1	25.0	38.5	30.5	100	97	72	24.8	-



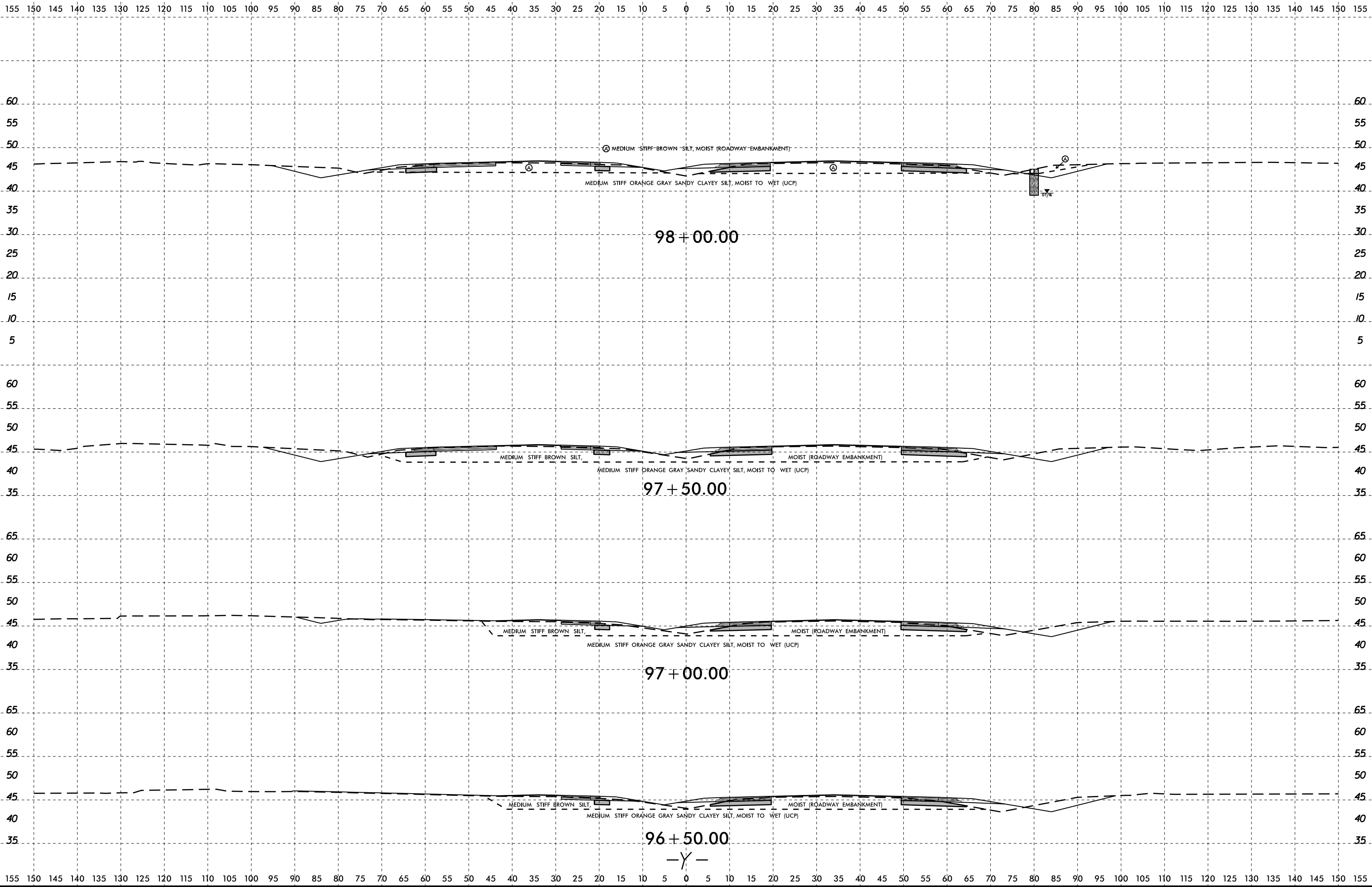
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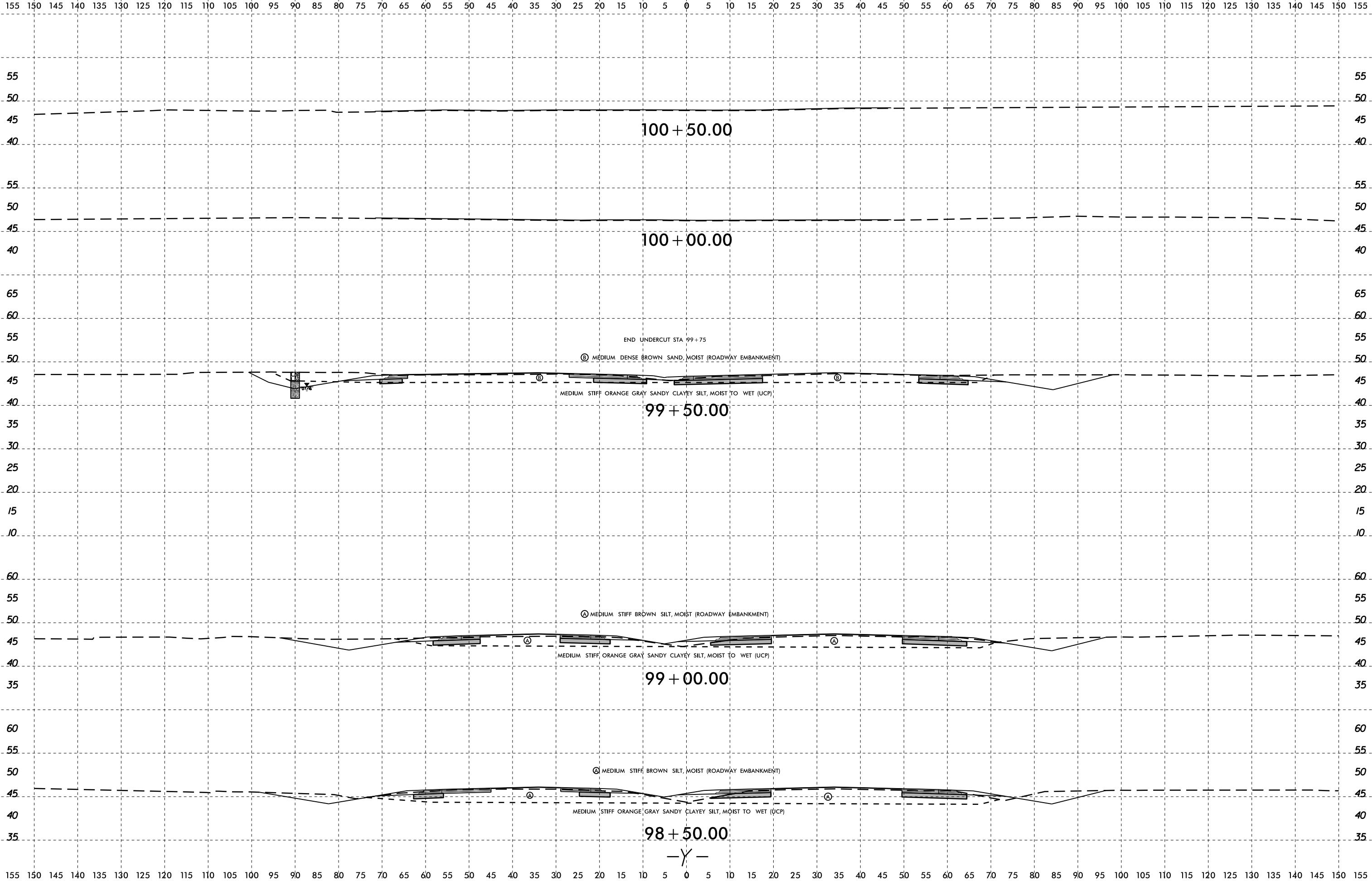
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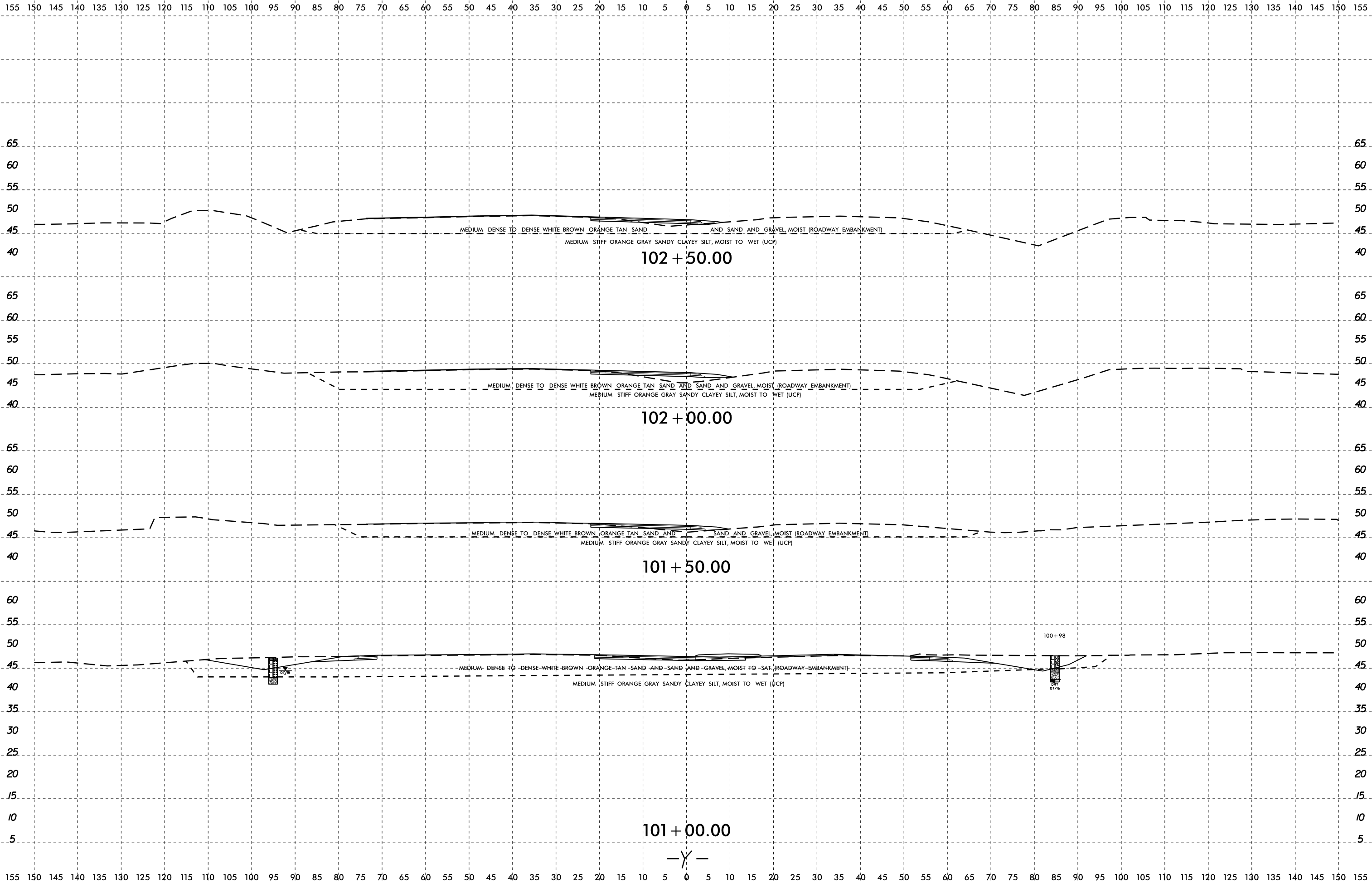
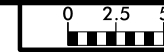
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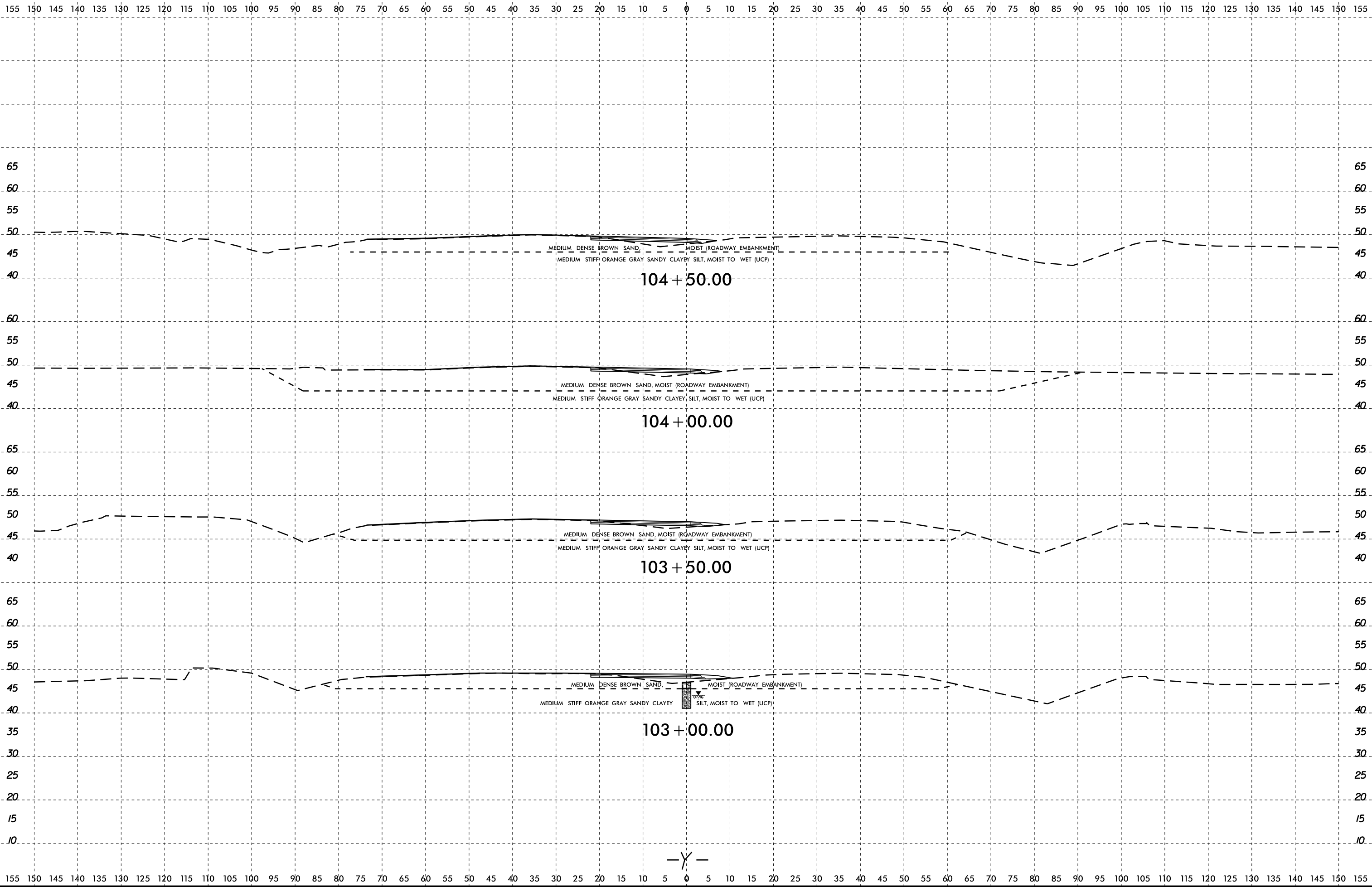


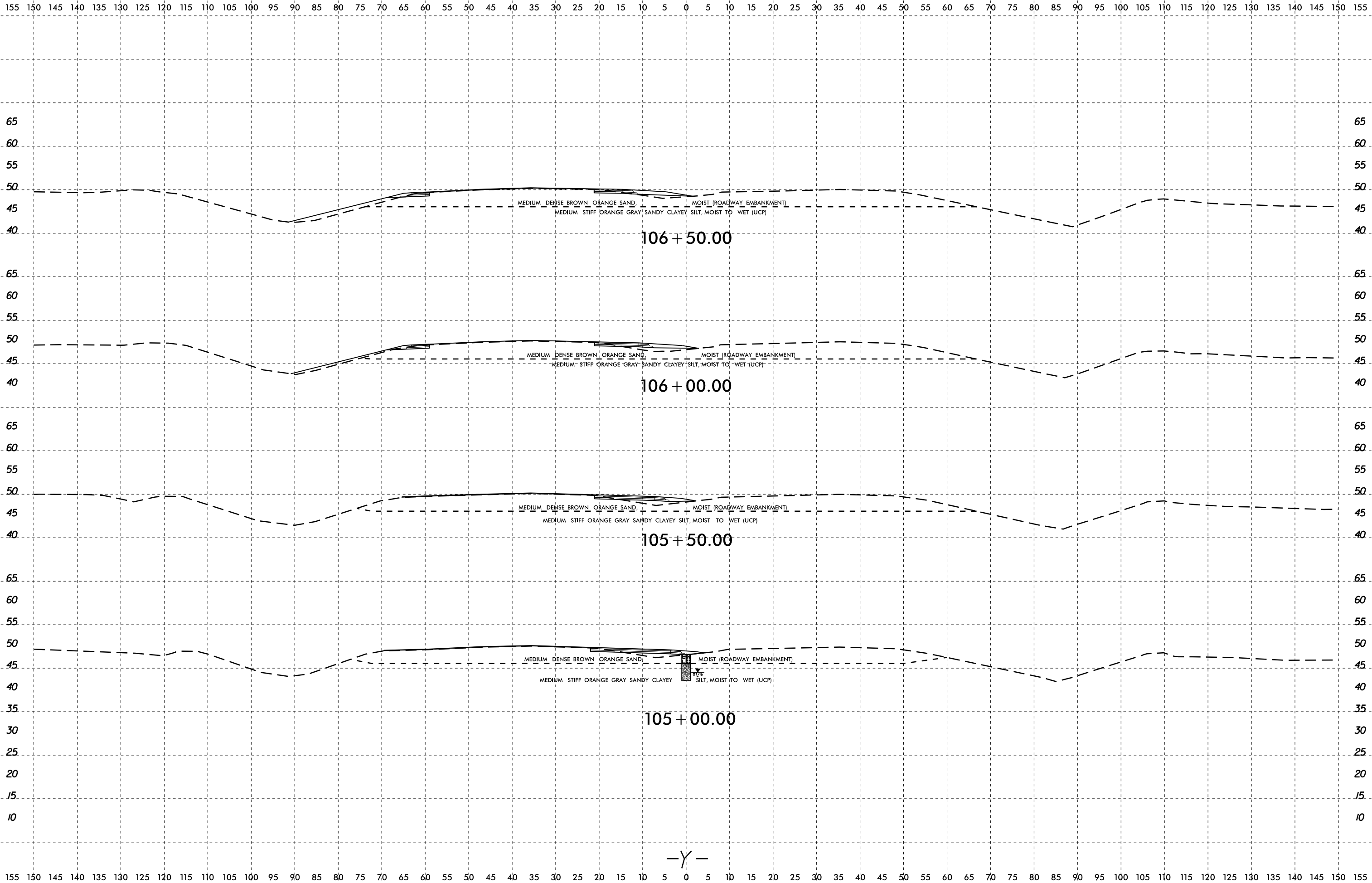
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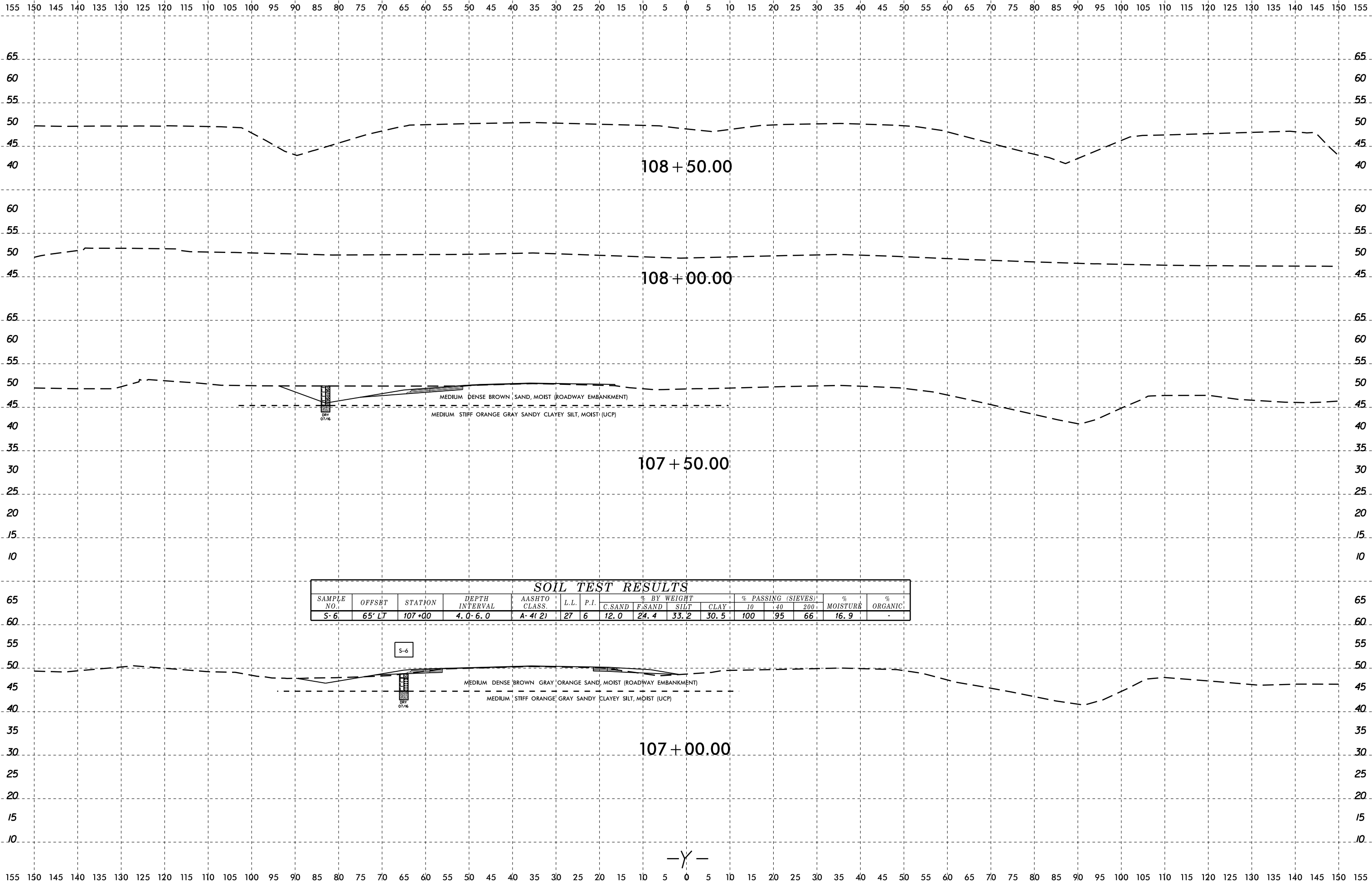












SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-6	65' LT	107+00	4.0-6.0	A-4(2)	27	6	12.0	24.4	33.2	30.5	100	95	66	16.9	-