

NOTE: SEE SHEET 1A 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	TOTAL SHEETS
N.C.	R-4753	1	9
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39999.1.1	STP 107(10)	P.E.	
		RW & UTIL.	

**CONTENTS**

LINE	STATION	PLAN	XSECT	PROFILE
Wall 2	-L- 54+90 - 56+75	3	5-9	4

# STRUCTURE SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 39999.1.1 F.A. PROJ. SPT-107(10)  
 COUNTY Jackson  
 PROJECT DESCRIPTION NC 107 FROM EAST OF SR 1002  
TO NC 281  
Wall 2 20 Rt. -L- 54+90 to 56+75

## INVENTORY

**CAUTION NOTICE**

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES, AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

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 THIS 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.

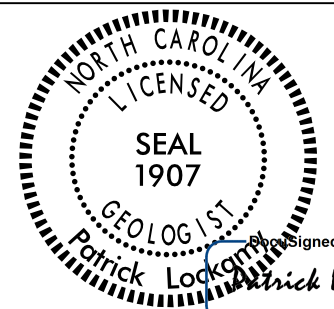
**PERSONNEL**

*F&H drill crew*

*R. DeLost*

*M. Morgan*

INVESTIGATED BY PQ Lockamy<sup>DS</sup>  
 CHECKED BY JC Kuhne  
 SUBMITTED BY JC Kuhne  
 DATE 9-21-2016



Designed by:  
*Patrick Lockamy*

E1F-223BB6188412...

**CONTRACT: 39999.1.1 ID: R-4753**

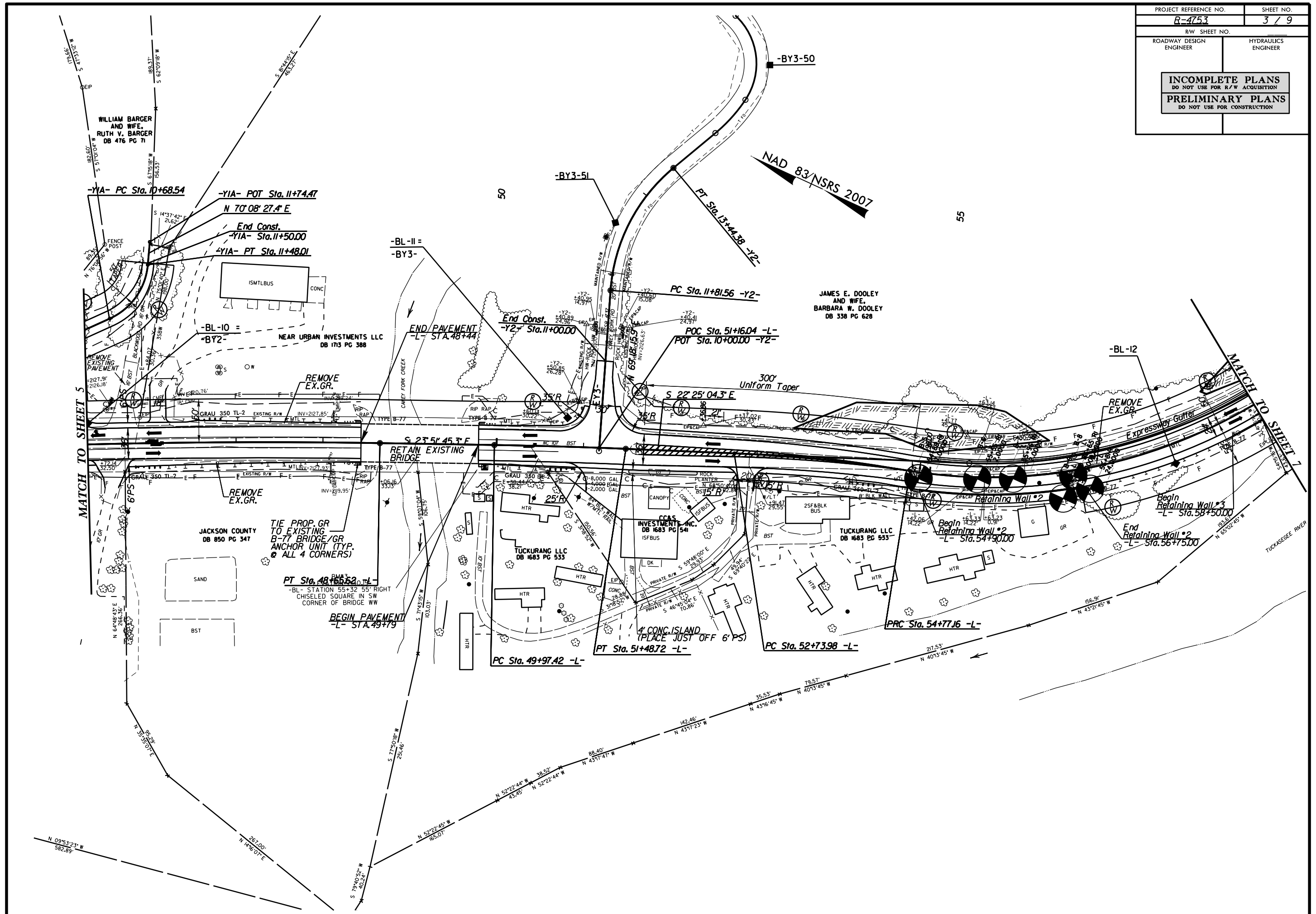
DRAWN BY: PQ Lockamy

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

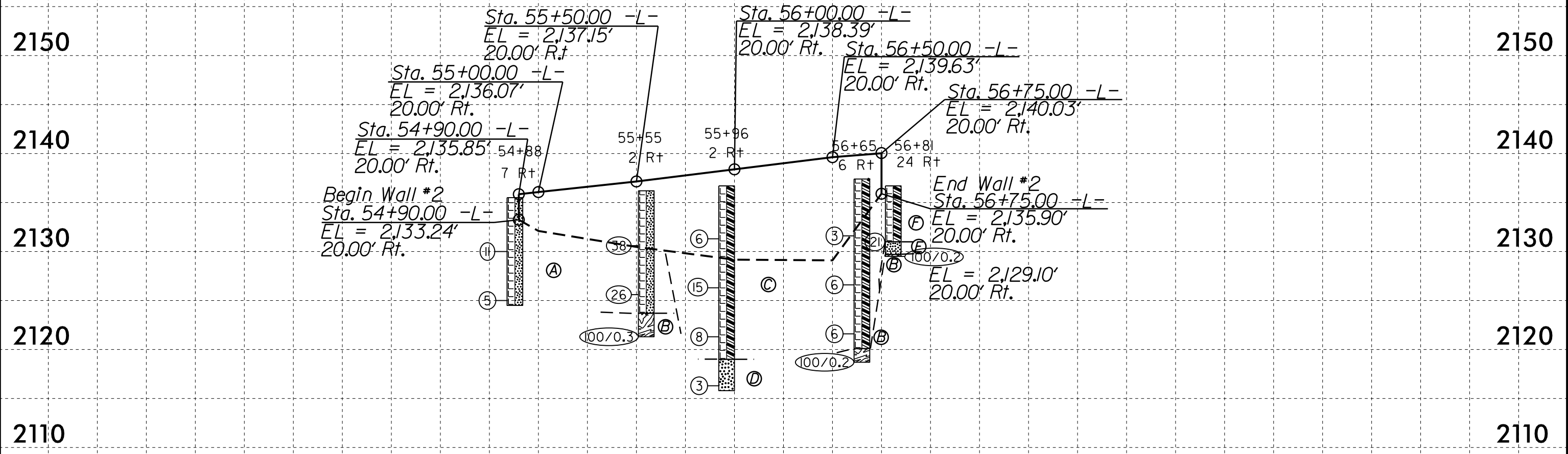
NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.



PROJECT REFERENCE NO. <b>R-4753</b>	SHEET NO. <b>3 / 9</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	



### RETAINING WALL #2 ENVELOPE

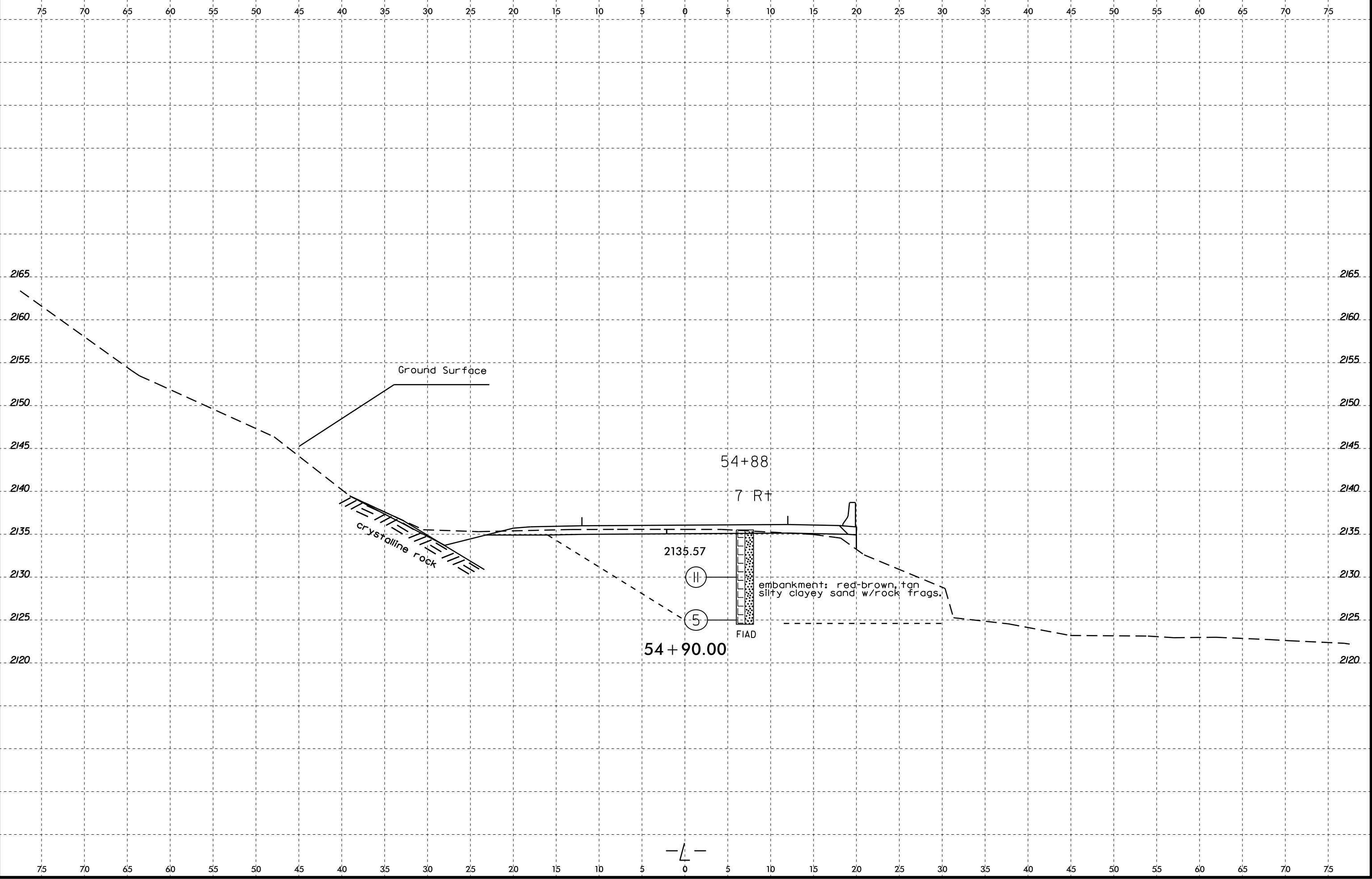


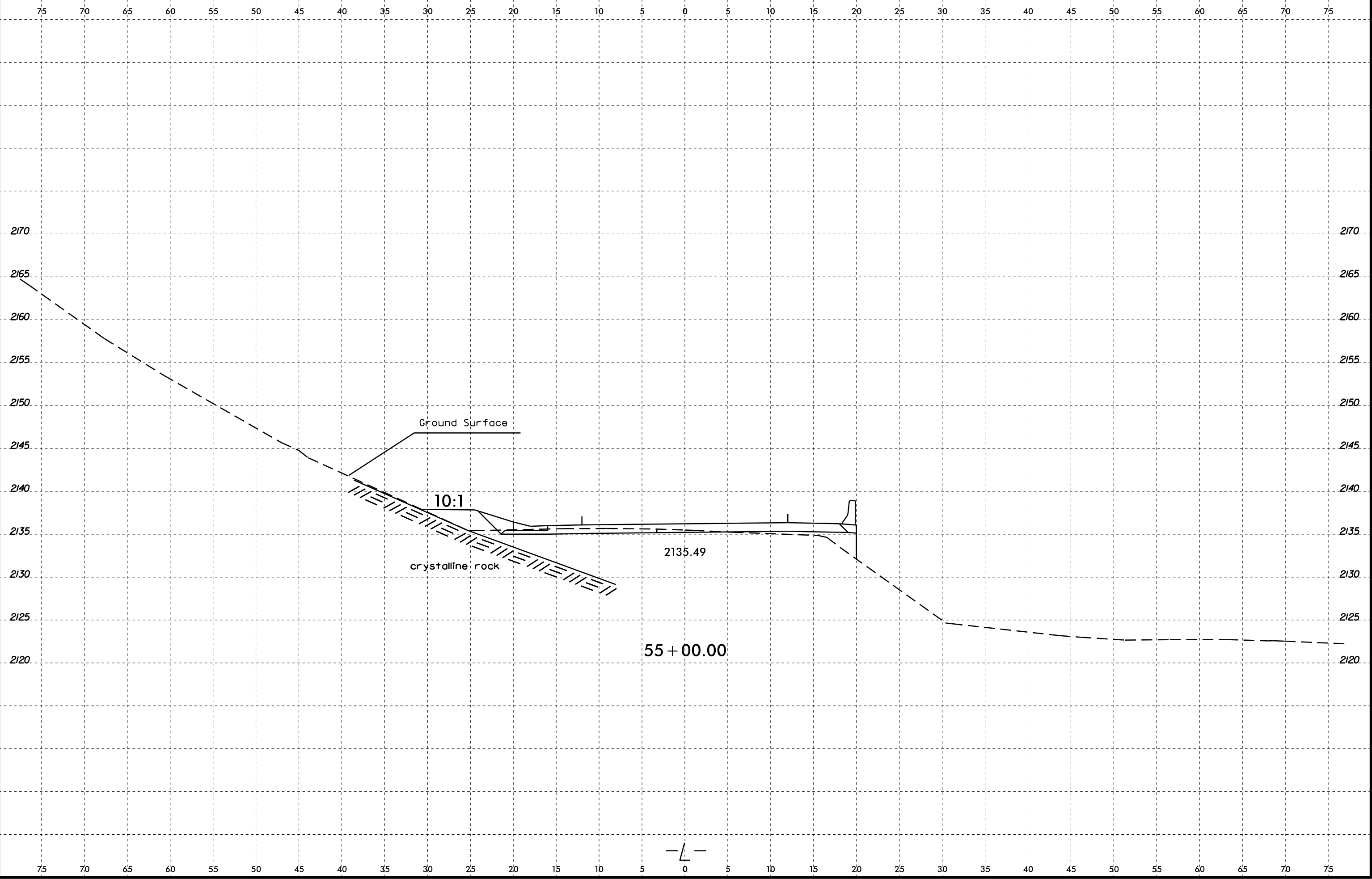
- Ⓐ embankment: brown, tan, red & black-green, clayey silty sand and silty sand w/mica and rock frags.
- Ⓑ Weathered rock (Gneiss)
- Ⓒ embankment: red, red-brown, black & tan fine sandy clay
- Ⓓ saprolite: tan, green-black & gray, silty fine sand w/rock frags.
- Ⓔ saprolite: green, tan, white & brown, silty sand w/mica
- Ⓕ embankment: brown, tan & red, sandy clay

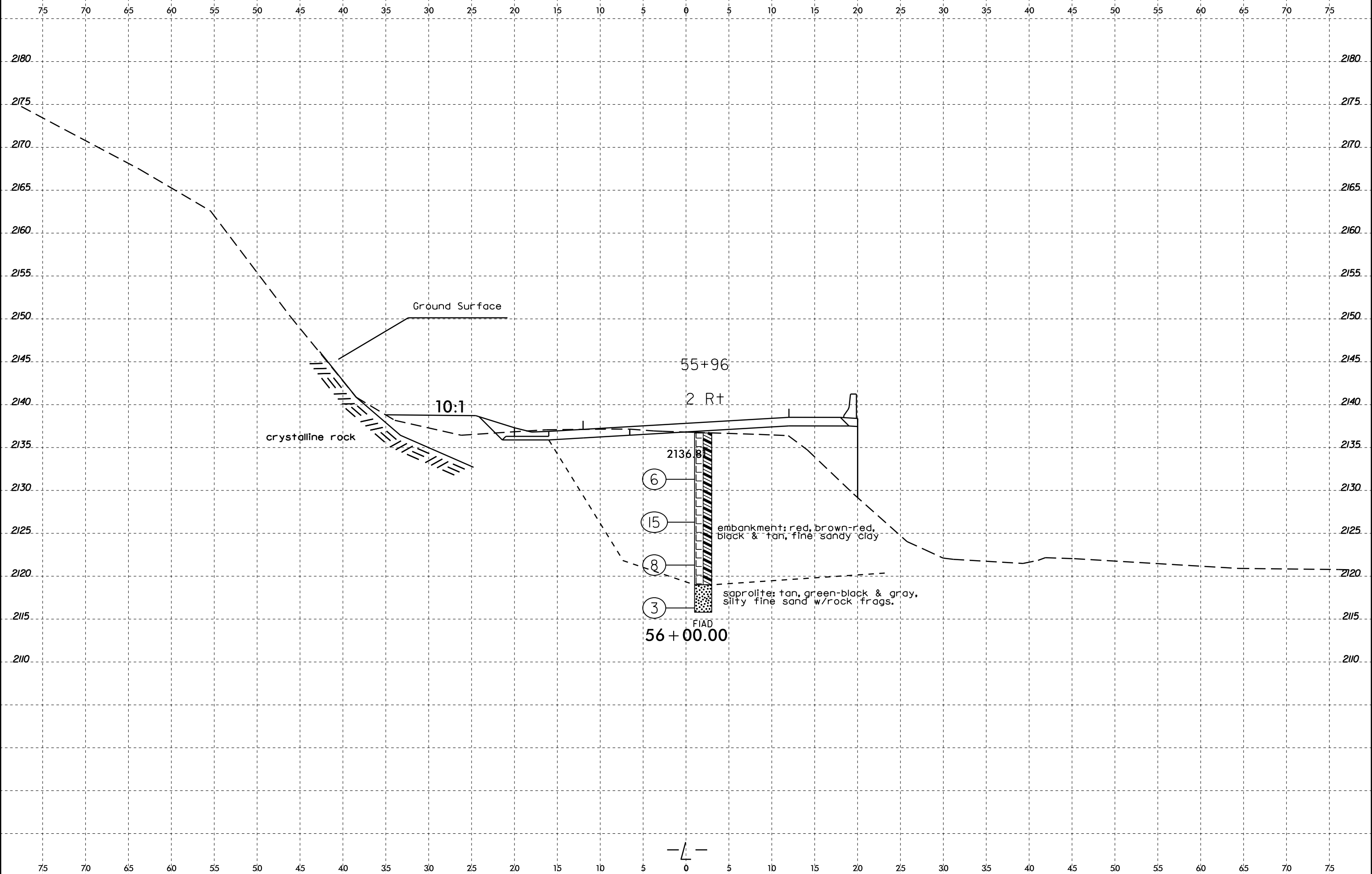
55

56

57







2180

2175

2170

2165

2160

2155

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2145

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2135

2130

2125

2120

2115

2110

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

Ground Surface

10:1

crystalline rock

55+96

2 Rt

2136.8

6

15

8

3

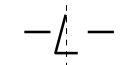
FIAD

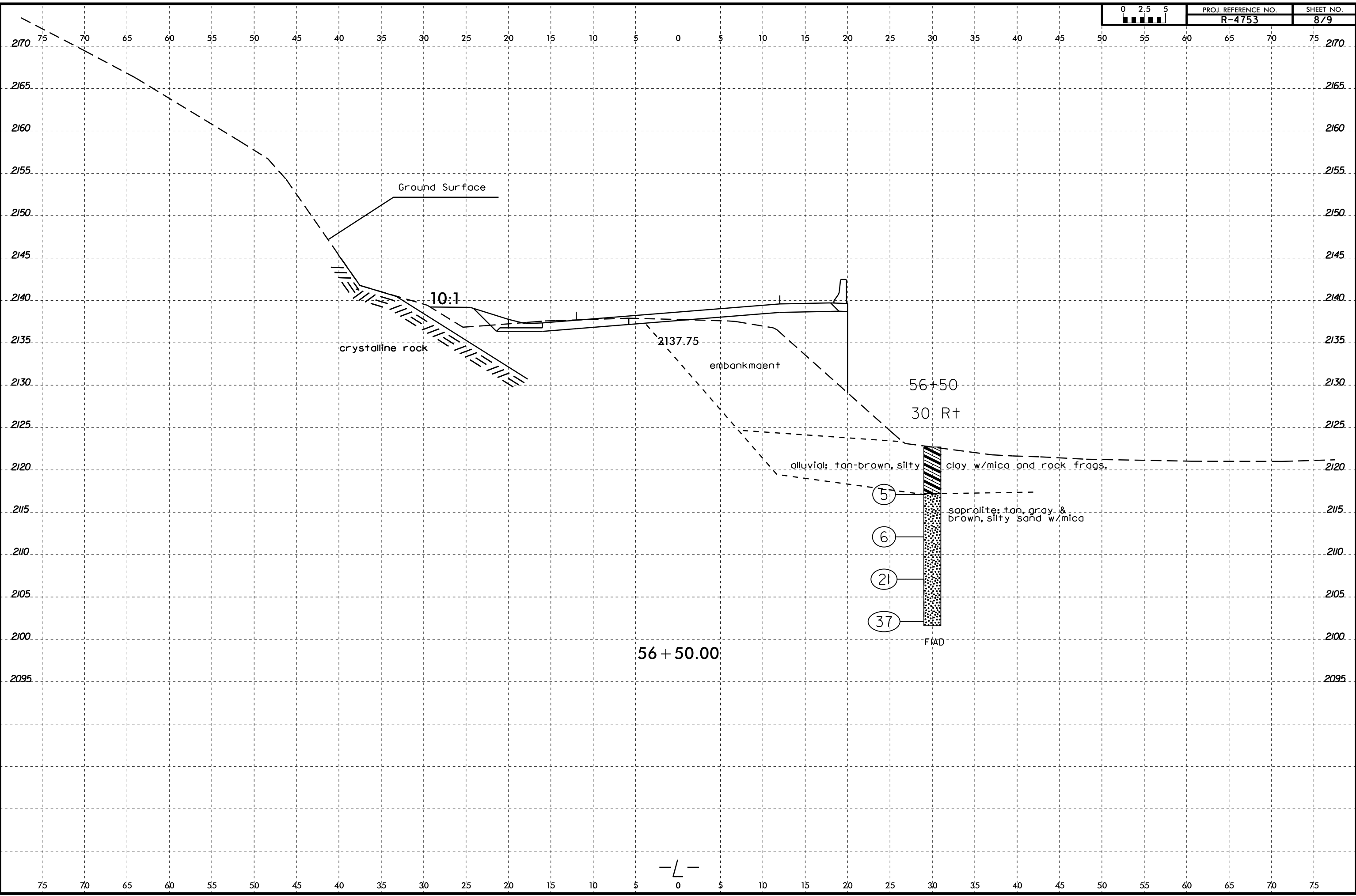
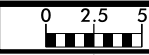
56+00.00

embankment: red, brown-red, black & tan, fine sandy clay

saprolite: tan, green-black & gray, silty fine sand w/rock frags.

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





Ground Surface

10:1

crystalline rock

embankment

56+50

30 Rt

alluvial: tan-brown, silty

clay w/mica and rock frags.

saprolite: tan, gray & brown, silty sand w/mica

5

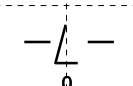
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21

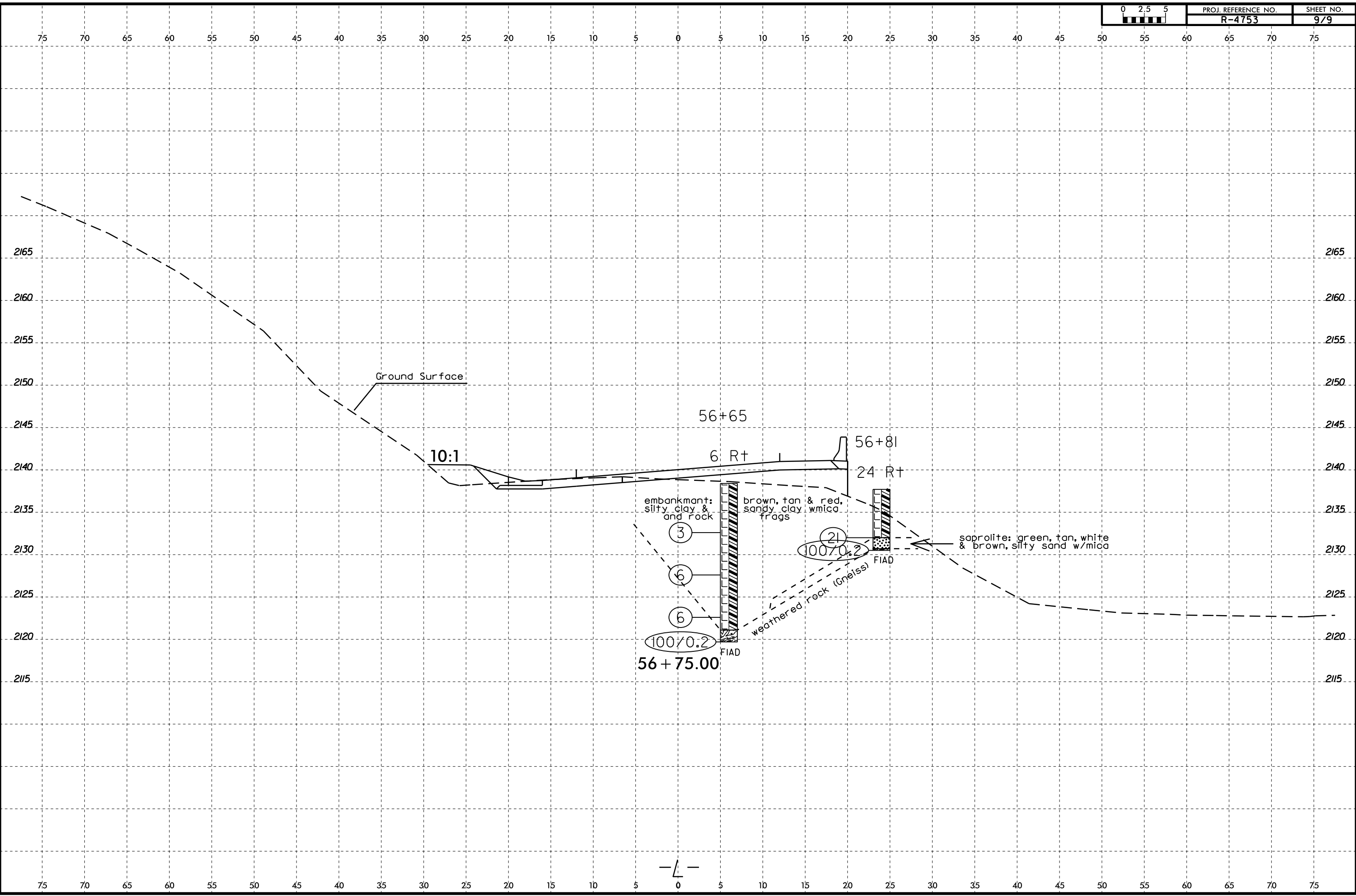
37

FIAD

56+50.00







2165  
2160  
2155  
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2115

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2135  
2130  
2125  
2120  
2115

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

Ground Surface

10:1

56+65

6 Rt

56+81

24 Rt

embankment:  
silty clay &  
and rock

brown, tan & red,  
sandy clay w/mica  
frags

saprolite: green, tan, white  
& brown, silty sand w/mica

3

21

6

100% 0.2

6

weathered rock (Gneiss)

100% 0.2

FIAD

FIAD

56+75.00