

REFERENCE: BR-0107

PROJECT: 67107

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

**STRUCTURE  
SUBSURFACE INVESTIGATION**

COUNTY Iredell  
SITE DESCRIPTION Bridge No. 131 on SR 1577  
(Pisgah Ridge Cir.) over UT to Snow Creek

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| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C.  | BR-0107                     | 1         | 8            |

**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.

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- 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. Stickney

C.L. Smith

B.E. Foster

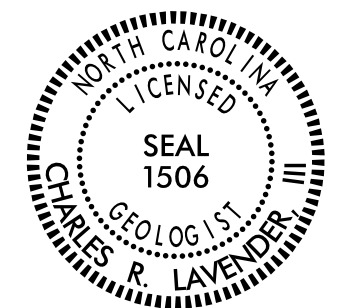
INVESTIGATED BY J.K. Stickney

DRAWN BY T.T. Walker, F&R Inc.

CHECKED BY K.B. Miller

SUBMITTED BY C.R. Lavender, III

DATE December 2019



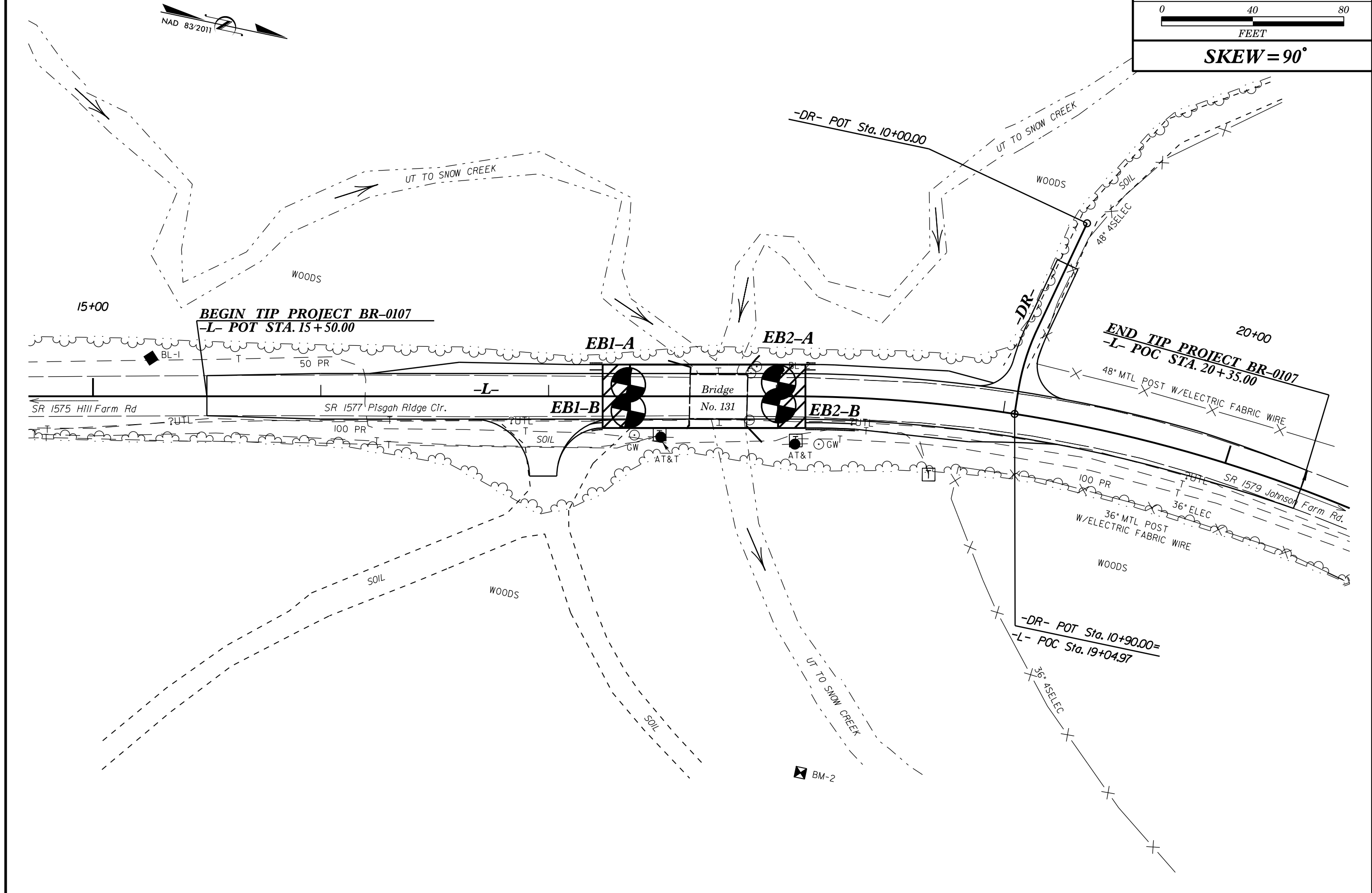
DocuSigned by:  
Charles R. Lavender 12/23/2019  
SIGNATURE DATE

**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, and COLOR.

|                       |           |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| BR-107                | 3         |
| <b>SITE PLAN</b>      |           |
|                       |           |
| <b>SKEW = 90°</b>     |           |



NAD 83/2011

15+00

**BEGIN TIP PROJECT BR-0107**  
-L- POT STA. 15+50.00

UT TO SNOW CREEK

WOODS

SOIL

48" ASELEC

48" MTL POST W/ELECTRIC FABRIC WIRE

20+00

**END TIP PROJECT BR-0107**  
-L- POC STA. 20+35.00

SR 1575 Hill Farm Rd

SR 1577 Pisgah Ridge Cir.

SR 1579 Johnson Farm Rd

100 PR

50 PR

36" ELEC

36" MTL POST W/ELECTRIC FABRIC WIRE

WOODS

-DR- POT Sta. 10+00.00

UT TO SNOW CREEK

WOODS

EB1-A

EB2-A

EB1-B

EB2-B

Bridge No. 131

AT&T

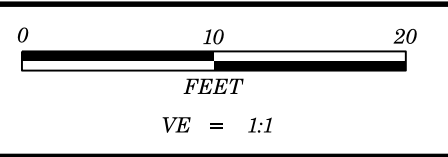
GW

SOIL

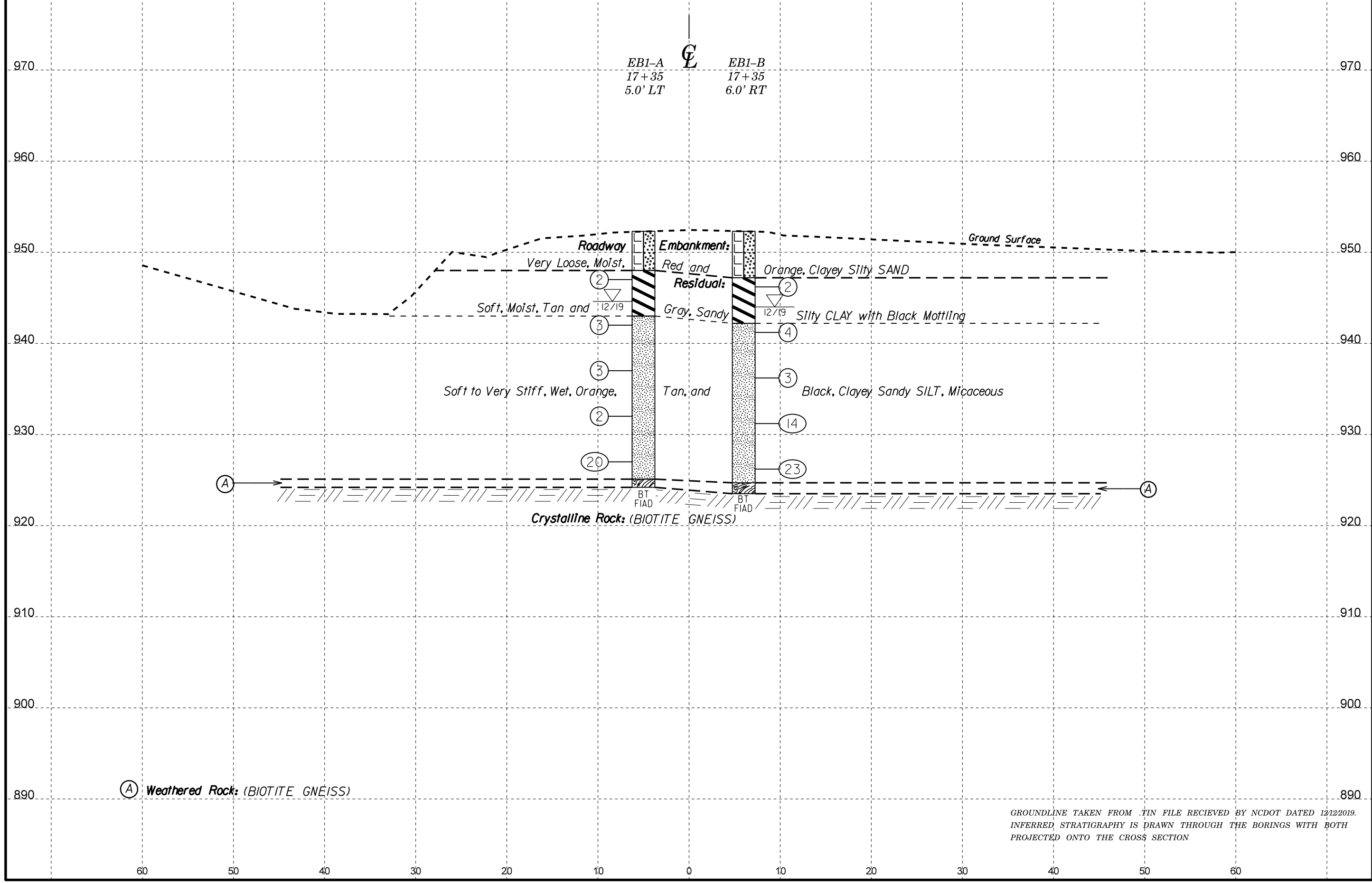
UT TO SNOW CREEK

BM-2

-DR- POT Sta. 10+90.00=  
-L- POC Sta. 19+04.97



|   |                  |
|---|------------------|
| <b>PROJECT REFERENCE NO.</b>            | <b>SHEET NO.</b> |
| BR-0107                                 | 4                |
| <b>CROSS SECTION THROUGH END BENT 1</b> |                  |
| AT -L- STATION 17+36.00                 |                  |
| SKEW=90°                                |                  |



EB1-A  
17+35  
5.0' LT

EB1-B  
17+35  
6.0' RT

**Roadway**  
Very Loose, Moist,  
Soft, Moist, Tan and  
Soft to Very Stiff, Wet, Orange,  
Tan, and

**Embankment:**  
Red and  
Residual:  
Gray, Sandy  
Orange, Clayey Silty SAND  
Silty CLAY with Black Mottling  
Black, Clayey, Sandy SILT, Micaceous

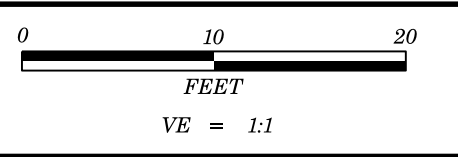
Ground Surface

BT  
FIAD

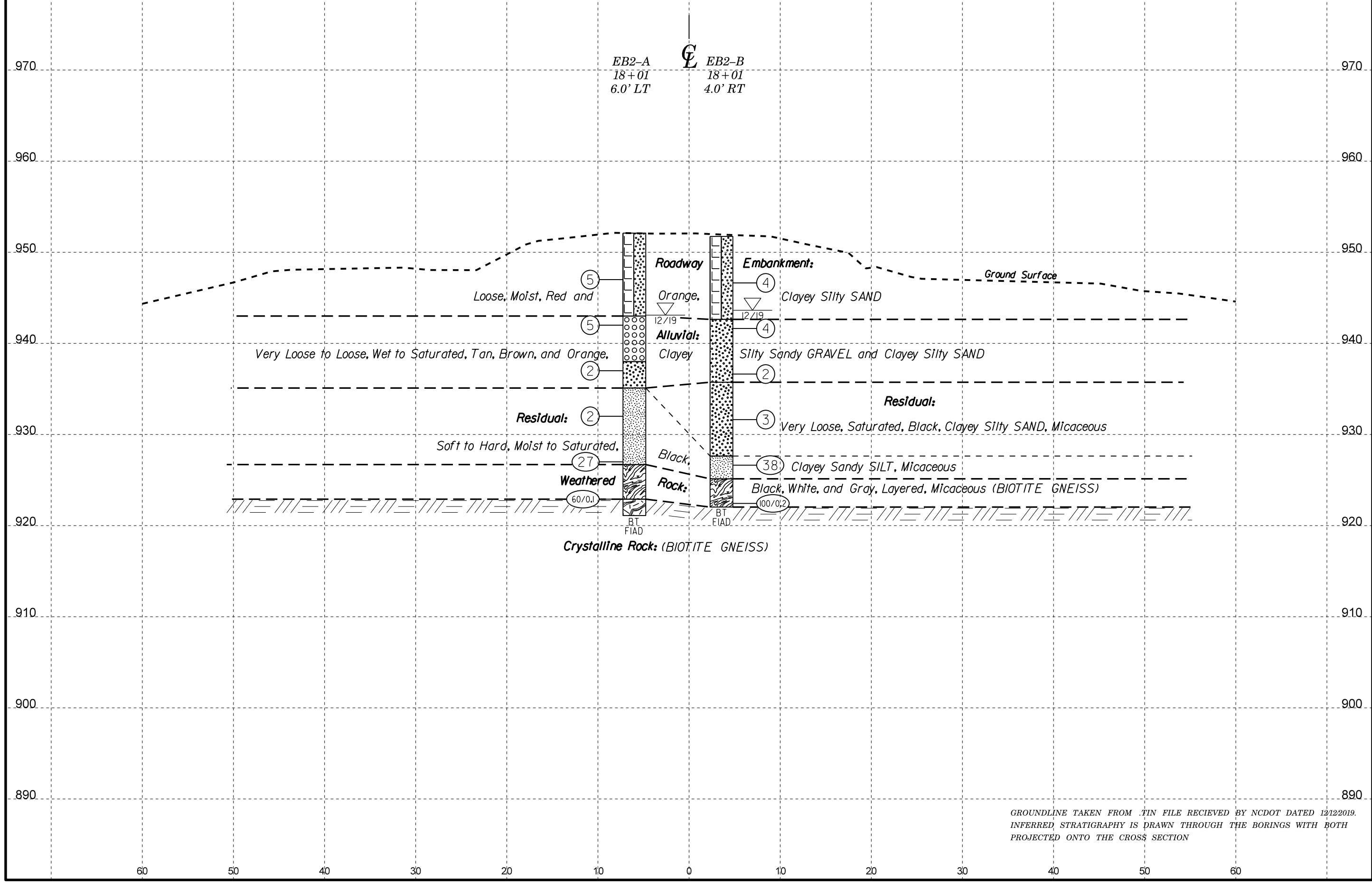
Crystalline Rock: (BIOTITE GNEISS)

Weathered Rock: (BIOTITE GNEISS)

GROUNDLINE TAKEN FROM TIN FILE RECEIVED BY NCDOT DATED 12/12/2019.  
INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH  
PROJECTED ONTO THE CROSS SECTION



|   |                  |
|---|------------------|
| <b>PROJECT REFERENCE NO.</b>            | <b>SHEET NO.</b> |
| BR-0107                                 | 5                |
| <b>CROSS SECTION THROUGH END BENT 2</b> |                  |
| AT -L- STATION 18+01.00                 |                  |
| SKEW=90°                                |                  |



GROUNDLINE TAKEN FROM TIN FILE RECEIVED BY NCDOT DATED 12/12/2019.  
 INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH  
 PROJECTED ONTO THE CROSS SECTION

# GEOTECHNICAL BORING REPORT

## BORE LOG

| WBS 67107.1.1   |                 | TIP BR-0107         |                                    | COUNTY IREDELL      |       | GEOLOGIST Stickney, J. K. |                 |    |    |     |           |     |                           |            |      |   |
|---|-----------------|---------------------|------------------------------------|---------------------|-------|---------------------------|-----------------|----|----|-----|-----------|-----|---------------------------|------------|------|---|
| SITE DESCRIPTION Bridge No. 131 on SR1577 (Pisgah Ridge Circle) over UT to Snow Creek |                 |                     |                                    |                     |       |                           | GROUND WTR (ft) |    |    |     |           |     |                           |            |      |   |
| BORING NO. EB1-A  |                 | STATION 17+35       |                                    | OFFSET 5 ft LT      |       | ALIGNMENT -L-             |                 |    |    |     |           |     |                           |            |      |   |
| COLLAR ELEV. 952.3 ft   |                 | TOTAL DEPTH 28.1 ft |                                    | NORTHING 795,687    |       | EASTING 1,407,809         |                 |    |    |     |           |     |                           |            |      |   |
| DRILL RIG/HAMMER EFF./DATE HFC0072 CME-550X 92% 08/15/2018                            |                 |                     | DRILL METHOD NW Casing w/ Advancer |                     |       | HAMMER TYPE Automatic     |                 |    |    |     |           |     |                           |            |      |   |
| DRILLER Smith, C. L.  |                 | START DATE 12/06/19 |                                    | COMP. DATE 12/06/19 |       | SURFACE WATER DEPTH N/A   |                 |    |    |     |           |     |                           |            |      |   |
| ELEV (ft)   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT                         |                     |       | BLOWS PER FOOT            |                 |    |    |     | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | DEPTH (ft) |      |   |
|   |                 |                     | 0.5ft                              | 0.5ft               | 0.5ft | 0                         | 25              | 50 | 75 | 100 |           |     |                           |            |      |   |
| 955   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 952.3      | 0.0  | GROUND SURFACE  |
| 950   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 948.0      | 4.3  | ROADWAY EMBANKMENT<br>Red And Orange, Clayey, Silty SAND.   |
| 945   | 948.0           | 4.3                 | 2                                  | 1                   | 1     |                           |                 |    |    |     |           |     | M                         | 948.0      | 4.3  | RESIDUAL<br>Tan And Gray, Sandy, Silty CLAY, with Black Mottling.   |
| 940   | 943.0           | 9.3                 | 4                                  | 2                   | 1     |                           |                 |    |    |     |           |     | W                         | 943.0      | 9.3  | Orange, Tan and Black, Clayey, Sandy SILT, Micaceous.   |
| 935   | 938.0           | 14.3                | 2                                  | 2                   | 1     |                           |                 |    |    |     |           |     | W                         |            |      |   |
| 930   | 933.0           | 19.3                | 1                                  | 1                   | 1     |                           |                 |    |    |     |           |     | W                         |            |      |   |
| 925   | 928.0           | 24.3                | 2                                  | 5                   | 15    |                           |                 |    |    |     |           |     | W                         |            |      |   |
|   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 925.1      | 27.2 | WEATHERED ROCK<br>Black and White (Biotite Gneiss)  |
|   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 924.2      | 28.1 | CRYSTALLINE ROCK<br>(Biotite Gneiss)<br>Boring Terminated with Casing Advancer Refusal at Elevation 924.2 ft on Crystalline Rock (Biotite Gneiss) |

| WBS 67107.1.1   |                 | TIP BR-0107         |                                    | COUNTY IREDELL      |       | GEOLOGIST Stickney, J. K. |                 |    |    |     |           |     |                           |            |      |  |
|---|-----------------|---------------------|------------------------------------|---------------------|-------|---------------------------|-----------------|----|----|-----|-----------|-----|---------------------------|------------|------|--|
| SITE DESCRIPTION Bridge No. 131 on SR1577 (Pisgah Ridge Circle) over UT to Snow Creek |                 |                     |                                    |                     |       |                           | GROUND WTR (ft) |    |    |     |           |     |                           |            |      |  |
| BORING NO. EB1-B  |                 | STATION 17+35       |                                    | OFFSET 6 ft RT      |       | ALIGNMENT -L-             |                 |    |    |     |           |     |                           |            |      |  |
| COLLAR ELEV. 952.3 ft   |                 | TOTAL DEPTH 28.8 ft |                                    | NORTHING 795,689    |       | EASTING 1,407,820         |                 |    |    |     |           |     |                           |            |      |  |
| DRILL RIG/HAMMER EFF./DATE HFC0072 CME-550X 92% 08/15/2018                            |                 |                     | DRILL METHOD NW Casing w/ Advancer |                     |       | HAMMER TYPE Automatic     |                 |    |    |     |           |     |                           |            |      |  |
| DRILLER Smith, C. L.  |                 | START DATE 12/04/19 |                                    | COMP. DATE 12/04/19 |       | SURFACE WATER DEPTH N/A   |                 |    |    |     |           |     |                           |            |      |  |
| ELEV (ft)   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT                         |                     |       | BLOWS PER FOOT            |                 |    |    |     | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | DEPTH (ft) |      |  |
|   |                 |                     | 0.5ft                              | 0.5ft               | 0.5ft | 0                         | 25              | 50 | 75 | 100 |           |     |                           |            |      |  |
| 955   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 952.3      | 0.0  | GROUND SURFACE   |
| 950   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 947.2      | 5.1  | ROADWAY EMBANKMENT<br>Red And Orange, Clayey, Silty SAND.  |
| 945   | 947.2           | 5.1                 | 1                                  | 1                   | 1     |                           |                 |    |    |     |           |     | M                         | 947.2      | 5.1  | RESIDUAL<br>Tan And Gray, Sandy, Silty CLAY, with Black Mottling.  |
| 940   | 942.2           | 10.1                | 2                                  | 2                   | 2     |                           |                 |    |    |     |           |     | W                         | 942.2      | 10.1 | Orange, Tan And Black, Clayey, Sandy SILT, Micaceous.  |
| 935   | 937.2           | 15.1                | 2                                  | 1                   | 2     |                           |                 |    |    |     |           |     | W                         |            |      |  |
| 930   | 932.2           | 20.1                | 2                                  | 4                   | 10    |                           |                 |    |    |     |           |     | W                         |            |      |  |
| 925   | 927.2           | 25.1                | 4                                  | 10                  | 13    |                           |                 |    |    |     |           |     | W                         |            |      |  |
|   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 924.7      | 27.6 | WEATHERED ROCK<br>Black And White (Biotite Gneiss)   |
|   |                 |                     |                                    |                     |       |                           |                 |    |    |     |           |     |                           | 923.5      | 28.8 | CRYSTALLINE ROCK<br>(Biotite Gneiss)<br>Boring Terminated at Elevation 923.5 ft on Crystalline Rock (Biotite Gneiss) |

NCDOT BORE DOUBLE BR107\_GEO\_BRD0131\_BL.GPJ NC\_DOT.GDT 12/19/19

# GEOTECHNICAL BORING REPORT

## BORE LOG

| WBS 67107.1.1   |                 | TIP BR-0107                        |            | COUNTY IREDELL        |       | GEOLOGIST Stickney, J. K. |                 |    |    |     |           |     |                           |            |      |   |
|---|-----------------|------------------------------------|------------|-----------------------|-------|---------------------------|-----------------|----|----|-----|-----------|-----|---------------------------|------------|------|---|
| SITE DESCRIPTION Bridge No. 131 on SR1577 (Pisgah Ridge Circle) over UT to Snow Creek |                 |                                    |            |                       |       |                           | GROUND WTR (ft) |    |    |     |           |     |                           |            |      |   |
| BORING NO. EB2-A  |                 | STATION 18+01                      |            | OFFSET 6 ft LT        |       | ALIGNMENT -L-             |                 |    |    |     |           |     |                           |            |      |   |
| COLLAR ELEV. 952.1 ft   |                 | TOTAL DEPTH 31.0 ft                |            | NORTHING 795,751      |       | EASTING 1,407,795         |                 |    |    |     |           |     |                           |            |      |   |
| DRILL RIG/HAMMER EFF./DATE HFC0072 CME-550X 92% 08/15/2018                            |                 | DRILL METHOD NW Casing w/ Advancer |            | HAMMER TYPE Automatic |       |                           |                 |    |    |     |           |     |                           |            |      |   |
| DRILLER Smith, C. L.  |                 | START DATE 12/06/19                |            | COMP. DATE 12/06/19   |       | SURFACE WATER DEPTH N/A   |                 |    |    |     |           |     |                           |            |      |   |
| ELEV (ft)   | DRIVE ELEV (ft) | DEPTH (ft)                         | BLOW COUNT |                       |       | BLOWS PER FOOT            |                 |    |    |     | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | DEPTH (ft) |      |   |
|   |                 |                                    | 0.5ft      | 0.5ft                 | 0.5ft | 0                         | 25              | 50 | 75 | 100 |           |     |                           |            |      |   |
| 955   |                 |                                    |            |                       |       |                           |                 |    |    |     |           |     |                           | 952.1      | 0.0  | GROUND SURFACE  |
|   |                 |                                    |            |                       |       |                           |                 |    |    |     |           |     |                           |            |      | ROADWAY EMBANKMENT<br>Red And Orange, Clayey, Silty SAND.   |
| 950   | 948.0           | 4.1                                | 2          | 3                     | 2     |                           |                 |    |    |     |           |     | M                         |            |      |   |
| 945   | 943.0           | 9.1                                | 10         | 4                     | 1     |                           |                 |    |    |     |           |     | W                         | 943.0      | 9.1  | ALLUVIAL<br>Tan And Orange, Clayey, Silty, Sandy GRAVEL.  |
| 940   | 938.0           | 14.1                               | 1          | 1                     | 1     |                           |                 |    |    |     |           |     | Sat.                      | 938.0      | 14.1 | Tan, Brown And Orange, Clayey, Silty SAND.  |
| 935   | 933.0           | 19.1                               | 2          | 1                     | 1     |                           |                 |    |    |     |           |     | Sat.                      | 935.1      | 17.0 | RESIDUAL<br>Black, Clayey, Sandy SILT, Micaceous.   |
| 930   | 928.0           | 24.1                               | 1          | 6                     | 21    |                           |                 |    |    |     |           |     | M                         | 926.7      | 25.4 | WEATHERED ROCK<br>Black, White And Gray, Layered, Micaceous (Biotite Gneiss).                             |
| 925   | 923.0           | 29.1                               |            |                       |       |                           |                 |    |    |     |           |     |                           | 922.9      | 29.2 | CRYSTALLINE ROCK<br>(Biotite Gneiss).   |
|   |                 |                                    |            |                       |       |                           |                 |    |    |     |           |     |                           | 921.1      | 31.0 | Boring Terminated with Casing Advancer Refusal at Elevation 921.1 ft in Crystalline Rock (Biotite Gneiss) |

| WBS 67107.1.1   |                 | TIP BR-0107                        |            | COUNTY IREDELL        |       | GEOLOGIST Stickney, J. K. |                 |    |    |     |           |     |                           |            |      |   |
|---|-----------------|------------------------------------|------------|-----------------------|-------|---------------------------|-----------------|----|----|-----|-----------|-----|---------------------------|------------|------|---|
| SITE DESCRIPTION Bridge No. 131 on SR1577 (Pisgah Ridge Circle) over UT to Snow Creek |                 |                                    |            |                       |       |                           | GROUND WTR (ft) |    |    |     |           |     |                           |            |      |   |
| BORING NO. EB2-B  |                 | STATION 18+01                      |            | OFFSET 4 ft RT        |       | ALIGNMENT -L-             |                 |    |    |     |           |     |                           |            |      |   |
| COLLAR ELEV. 951.9 ft   |                 | TOTAL DEPTH 29.7 ft                |            | NORTHING 795,753      |       | EASTING 1,407,805         |                 |    |    |     |           |     |                           |            |      |   |
| DRILL RIG/HAMMER EFF./DATE HFC0072 CME-550X 92% 08/15/2018                            |                 | DRILL METHOD NW Casing w/ Advancer |            | HAMMER TYPE Automatic |       |                           |                 |    |    |     |           |     |                           |            |      |   |
| DRILLER Smith, C. L.  |                 | START DATE 12/04/19                |            | COMP. DATE 12/04/19   |       | SURFACE WATER DEPTH N/A   |                 |    |    |     |           |     |                           |            |      |   |
| ELEV (ft)   | DRIVE ELEV (ft) | DEPTH (ft)                         | BLOW COUNT |                       |       | BLOWS PER FOOT            |                 |    |    |     | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION | DEPTH (ft) |      |   |
|   |                 |                                    | 0.5ft      | 0.5ft                 | 0.5ft | 0                         | 25              | 50 | 75 | 100 |           |     |                           |            |      |   |
| 955   |                 |                                    |            |                       |       |                           |                 |    |    |     |           |     |                           | 951.9      | 0.0  | GROUND SURFACE  |
|   |                 |                                    |            |                       |       |                           |                 |    |    |     |           |     |                           |            |      | ROADWAY EMBANKMENT<br>Red And Orange, Clayey, Silty SAND.   |
| 950   | 947.8           | 4.1                                | 3          | 2                     | 2     |                           |                 |    |    |     |           |     | M                         |            |      |   |
| 945   | 942.8           | 9.1                                | 6          | 3                     | 1     |                           |                 |    |    |     |           |     | W                         | 942.8      | 9.1  | ALLUVIAL<br>Brown And Orange, Clayey, Silty SAND.   |
| 940   | 937.8           | 14.1                               | 1          | 1                     | 1     |                           |                 |    |    |     |           |     | Sat.                      | 935.9      | 16.0 | RESIDUAL<br>Black, Clayey, Silty SAND, Micaceous  |
| 935   | 932.8           | 19.1                               | 1          | 1                     | 2     |                           |                 |    |    |     |           |     | Sat.                      | 927.8      | 24.1 | WEATHERED ROCK<br>Black, White and Gray, Clayey, Sandy SILT, Layered, Micaceous, (Biotite Gneiss)         |
| 930   | 927.8           | 24.1                               | 4          | 6                     | 32    |                           |                 |    |    |     |           |     | M                         | 925.3      | 26.6 | WEATHERED ROCK<br>Black And White (Biotite Gneiss)  |
| 925   | 922.8           | 29.1                               |            |                       |       |                           |                 |    |    |     |           |     |                           | 922.2      | 29.7 | Boring Terminated with Casing Advancer Refusal at Elevation 922.2 ft on Crystalline Rock (Biotite Gneiss) |

NCDOT BORE DOUBLE BR107\_GEO\_BRD0131\_BL.GPJ NC\_DOT.GDT 12/19/19

# Bridge No. 131 on SR 1577 (Pisgah Ridge Cir.) over UT to Snow Creek

## SITE PHOTOGRAPHS



**Photograph No. 1:** Looking at End Bent 1 toward End Bent 2



**Photograph No. 2:** Looking Downstream