

-L-

| | |
|------------------------------------|------------------------------------|
| PI Sta 10+87.11 | PI Sta 11+47.95 |
| $\Delta = 19^{\circ}09'54.6" (LT)$ | $\Delta = 23^{\circ}38'58.2" (LT)$ |
| $D = 34^{\circ}43'29.0"$ | $D = 35^{\circ}48'35.5"$ |
| $L = 55.19'$ | $L = 66.04'$ |
| $T = 27.86'$ | $T = 33.50'$ |
| $R = 165.00'$ | $R = 160.00'$ |
| $V = 20 MPH$ | $V = 20 MPH$ |
| $e = NC (LOW SPEED)$ | $e = NC (LOW SPEED)$ |

-RAI-

| | | | |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| PI Sta 10+42.00 | PI Sta 11+07.97 | PI Sta 11+73.95 | PI Sta 12+39.92 |
| $\Delta = 90^{\circ}00'00.0" (LT)$ | $\Delta = 90^{\circ}00'00.0" (LT)$ | $\Delta = 90^{\circ}00'00.0" (LT)$ | $\Delta = 90^{\circ}00'00.0" (LT)$ |
| $D = 136^{\circ}25'06.7"$ | $D = 136^{\circ}25'06.7"$ | $D = 136^{\circ}25'06.7"$ | $D = 136^{\circ}25'06.7"$ |
| $L = 65.97'$ | $L = 65.97'$ | $L = 65.97'$ | $L = 65.97'$ |
| $T = 42.00'$ | $T = 42.00'$ | $T = 42.00'$ | $T = 42.00'$ |
| $R = 42.00'$ | $R = 42.00'$ | $R = 42.00'$ | $R = 42.00'$ |

SEE SHEET NOS. 2B-1 THRU 2B-3 FOR ROUNDABOUT DETAIL.
SEE SHEET NO. 2B-4 FOR BRIDGE SKETCH.
SEE SHEET NO. 2B-5 FOR -Y1- DETOUR.
SEE SHEET NO. 5 FOR -L- PROFILE.
SEE SHEET NO. 6 FOR -Y1- AND -Y2- PROFILES.
SEE SHEET NO. 6 -DRI- AND -DR2- PROFILES.
SEE SHEET NOS. S-1 THRU S-20 FOR STRUCTURE PLANS.
GEOTECHNICAL REPORT REQUESTS GEOTEXTILE FOR SOIL STABILIZATION FROM STA. 21+35 TO 23+44 -L- EST. 1200 SY

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-Y1-

| | |
|------------------------------------|------------------------------------|
| PI Sta 10+32.17 | PI Sta 12+21.23 |
| $\Delta = 17^{\circ}07'16.0" (RT)$ | $\Delta = 23^{\circ}02'42.2" (RT)$ |
| $D = 5^{\circ}43'46.5"$ | $D = 28^{\circ}38'52.4"$ |
| $L = 298.82'$ | $L = 80.44'$ |
| $T = 150.53'$ | $T = 40.77'$ |
| $R = 1,000.00'$ | $R = 200.00'$ |
| $V = 40 MPH$ | $V = 25 MPH$ |
| $e = SEE PLANS$ | $e = SEE PLANS$ |

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 17BP.14.R.212 | 4 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| | |
| 3/31/2023 | 3/31/2023 |

-L-

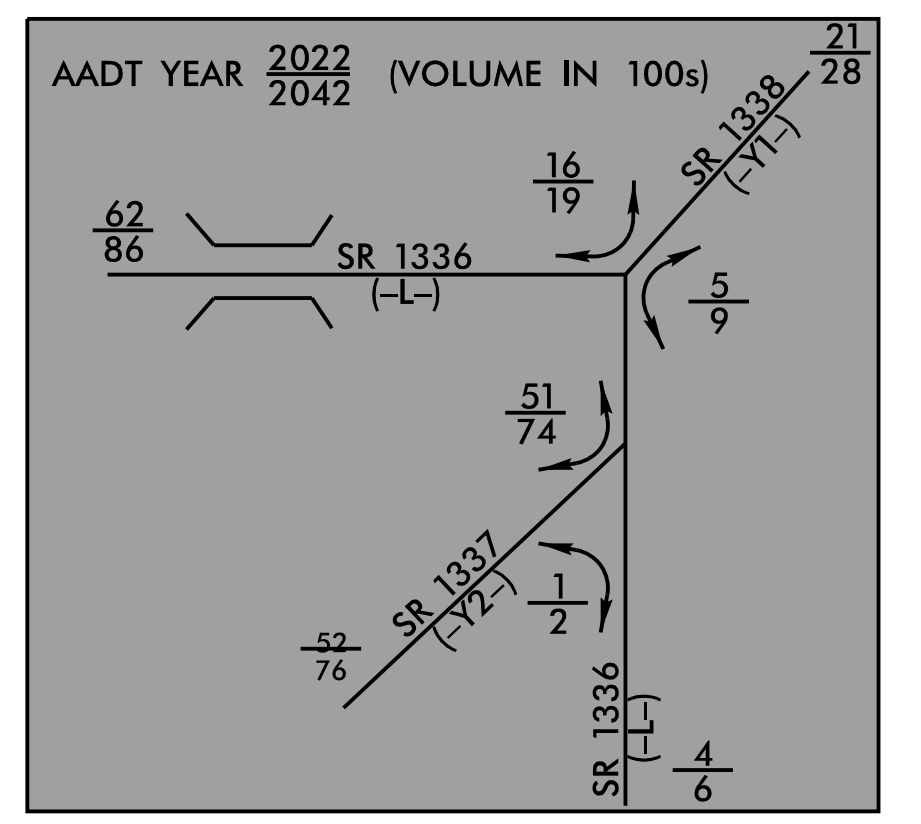
| | | |
|------------------------------------|------------------------------------|------------------------------------|
| PI Sta 13+20.70 | PI Sta 15+43.44 | PI Sta 17+97.87 |
| $\Delta = 12^{\circ}10'28.7" (RT)$ | $\Delta = 30^{\circ}40'51.0" (LT)$ | $\Delta = 52^{\circ}58'42.5" (RT)$ |
| $D = 14^{\circ}19'26.2"$ | $D = 17^{\circ}06'11.6"$ | $D = 17^{\circ}06'11.6"$ |
| $L = 84.99'$ | $L = 179.39'$ | $L = 309.76'$ |
| $T = 42.66'$ | $T = 91.90'$ | $T = 166.95'$ |
| $R = 400.00'$ | $R = 335.00'$ | $R = 335.00'$ |
| $V = 30 MPH$ | $V = 30 MPH$ | $V = 30 MPH$ |
| $e = NC (LOW SPEED)$ | $e = NC (LOW SPEED)$ | $e = NC (LOW SPEED)$ |

-DR2-

| |
|------------------------------------|
| PI Sta 10+52.86 |
| $\Delta = 33^{\circ}30'07.2" (RT)$ |
| $D = 52^{\circ}05'13.5"$ |
| $L = 64.32'$ |
| $T = 33.11'$ |
| $R = 110.00'$ |

-L-

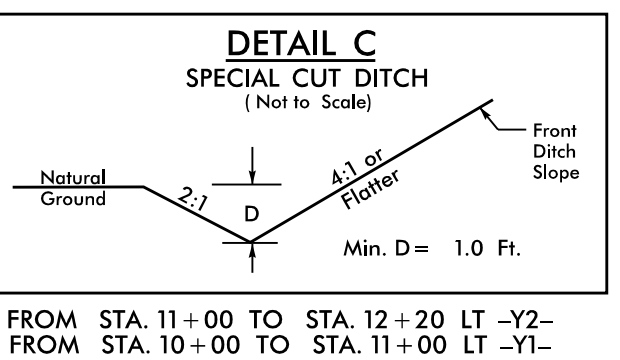
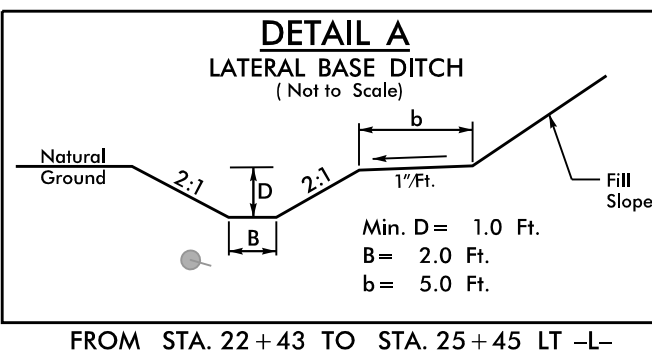
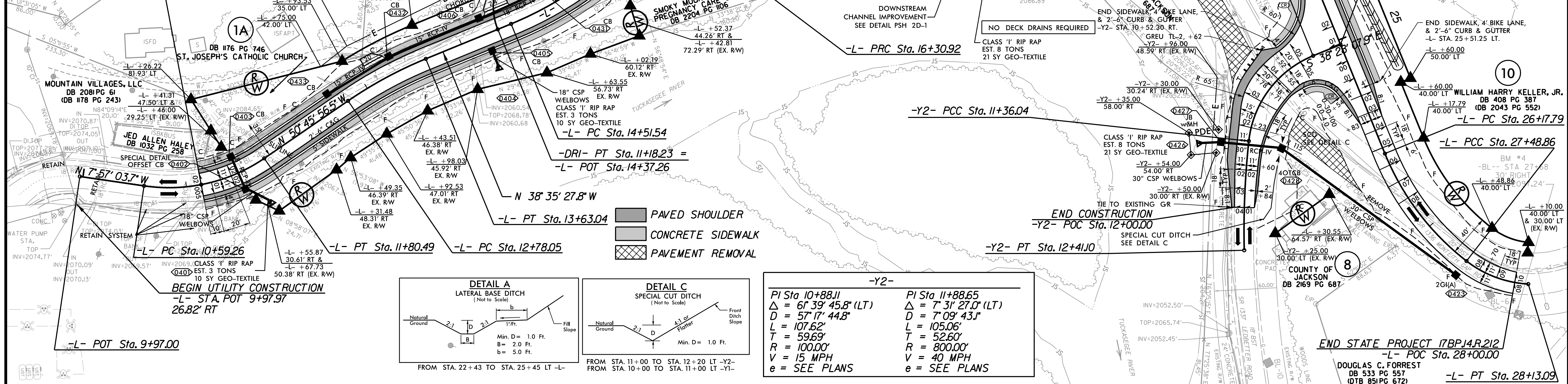
| | |
|------------------------------------|------------------------------------|
| PI Sta 26+84.87 | PI Sta 27+81.99 |
| $\Delta = 30^{\circ}02'16.6" (LT)$ | $\Delta = 34^{\circ}43'05.8" (LT)$ |
| $D = 22^{\circ}55'05.9"$ | $D = 54^{\circ}03'09.4"$ |
| $L = 131.07'$ | $L = 64.23'$ |
| $T = 67.08'$ | $T = 33.14'$ |
| $R = 250.00'$ | $R = 106.00'$ |
| $V = 30 MPH$ | $V = 20 MPH$ |
| $e = 0.08 (LOW SPEED)$ | $e = 0.08 (MATCH EX. AT TIE)$ |
| $Lr = 144'$ | |



-DRI-

| |
|------------------------------------|
| PI Sta 10+99.13 |
| $\Delta = 37^{\circ}56'18.5" (LT)$ |
| $D = 95^{\circ}29'34.7"$ |
| $L = 39.73'$ |
| $T = 20.62'$ |
| $R = 60.00'$ |

BEGIN STATE PROJECT 17BP.14.R.212
-L- PCC Sta. 11+44.45
TIE TO TIP PROJECT B-4159
-Y1- POT Sta. 11+20.00



-Y2-

| | |
|------------------------------------|-----------------------------------|
| PI Sta 10+88.11 | PI Sta 11+88.65 |
| $\Delta = 61^{\circ}39'45.8" (LT)$ | $\Delta = 7^{\circ}31'27.0" (LT)$ |
| $D = 57^{\circ}17'44.8"$ | $D = 7^{\circ}09'43.1"$ |
| $L = 107.62'$ | $L = 105.06'$ |
| $T = 59.69'$ | $T = 52.60'$ |
| $R = 100.00'$ | $R = 800.00'$ |
| $V = 15 MPH$ | $V = 40 MPH$ |
| $e = SEE PLANS$ | $e = SEE PLANS$ |

PLOT DRIVER: NCDOT...
USER: JMAS5ROO
DATE: 3/17/2023
FILE: NCDOT\NCDOT_Western_Div_On-Cell_M_NCDOT-17BP.14.R.212_Cullowhee\6.0_CAD_BIM\6.2_Work\In_Progress\17BP.14.R.212_Roadway_Prj\01\490159_R0Y_PSH04.dgn