

12/06/07

COMPUTED BY: HC DATE: 11-5-2025
 CHECKED BY: PJ DATE: 2-16-2026

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. U-5743
 SHEET NO. 3B-1

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

| SURVEY LINE | BEG. STA. | END STA. | LOCATION | LENGTH | | | WARRANT POINT | | "N" DIST. FROM E.O.L. | TOTAL SHOULDER WIDTH | FLARE LENGTH | | W | | ANCHORS | | | | IMPACT ATTENUATOR TYPE 350 | | | REMARKS | | |
|------------------------|-----------|----------|----------|----------|-------------|--------------|---------------|--------------|-----------------------|----------------------|--------------|--------------|--------------|--------------|-----------|-----------|-------|------|----------------------------|---|----|---------|--|-----------------------------------|
| | | | | STRAIGHT | SHOP CURVED | DOUBLE FACED | APPROACH END | TRAILING END | | | APPROACH END | TRAILING END | APPROACH END | TRAILING END | GREU TL-3 | GREU TL-2 | CAT-1 | AT-1 | NO. | G | NG | | | |
| -L- | 15+23.96 | 19+26.96 | RT | 381.25' | 25.00' | | 16+00.00 | 19+00.00 | 8'/12' | 11'/14' | 25' | | 0.5' | | | 1 | | 1 | | | | | | BREAK FOR DRIVE |
| -L- | 43+46.84 | 44+39.60 | LT | 93.75' | | | 43+69.00 | 43+59.00 | 12' | 14' | 50' | | 1' | | 1 | | | | | | | | | |
| -L- | 43+49.83 | 44+22.59 | RT | 62.50' | 37.50' | | 43+81.00 | 43+91 | 12' | 14' | | | | | | | 1 | | 1 | | | | | BREAK FOR DRIVE |
| SUBTOTAL | | | | 537.50' | 62.50' | | | | | | | | | | | | | | | | | | | |
| LESS ANCHOR DEDUCTIONS | | | | | | | | | | | | | | | | | | | | | | | | |
| GREU TL-3 1 x 50.00' | | | | = | -50.00' | | | | | | | | | | | | | | | | | | | |
| GREU TL-2 1 x 25.00' | | | | = | -25.00' | | | | | | | | | | | | | | | | | | | |
| CAT-1 2 x 6.25' | | | | = | -12.50' | | | | | | | | | | | | | | | | | | | |
| AT-1 2 x 6.25' | | | | = | -12.50' | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | 437.50' | 62.50' | | | | | | | | | 1 | 1 | 2 | 2 | | | | | | |
| SAY | | | | | 437.50' | 62.50' | | | | | | | | | 1 | 1 | 2 | 2 | | | | | | ADDITIONAL GUARDRAIL POSTS = 5 EA |

NOTE: SUPPORT PLATE, BOLTS, AND WASHERS USED TO ATTACH GUARDRAIL TO A BOX CULVERT AS SHOWN IN STANDARD 862.03 (SHEET 7 OF 9) ARE INCIDENTAL TO THE COST OF THE GUARDRAIL.

SUMMARY OF EARTHWORK IN CUBIC YARDS

| LOCATION | UNCLASSIFIED EXCAVATION | UNDERCUT | EMBT + % | BORROW | WASTE |
|------------------------------------|-------------------------|----------|----------|--------|-------|
| -L- RT 15+00.00 TO 21+25.00 | 198 | | 3728 | 3540 | |
| -L- 21+25.00 TO 34+45.00 | 743 | | 4002 | 3609 | 350 |
| -L- LT 34+45.00 TO 36+00.00 | 450 | | 107 | | 343 |
| -L- 36+00.00 TO 55+00.00 | 343 | | 7872 | 7529 | |
| -Y1- 10+20.05 TO 14+00.00 | 178 | | 370 | 192 | |
| -Y2- 10+20.00 TO 13+25.00 | 538 | | 65 | | 473 |
| -Y5- 10+32.00 TO 13+00.00 | 981 | 100 | 98 | | 983 |
| -Y6- 11+50.00 TO 14+46.38 | 75 | | 1385 | 1310 | |
| -Y7- 10+15.00 TO 11+37.68 | 31 | | 245 | 214 | |
| -Y8- 10+20.89 TO 11+00.00 | 80 | | 70 | | 10 |
| -DR1- 10+12.00 TO 10+87.08 | 128 | | 28 | | 100 |
| SUBTOTAL | 3745 | | 17980 | 16394 | 2259 |
| -L- LT 15+00.00 TO 21+25.00 | 6 | | 1236 | 1230 | |
| -L- RT 34+45.00 TO 36+00.00 | 10 | | 769 | 759 | |
| SUBTOTAL | 16 | | 2005 | 1989 | |
| TOTAL | 3761 | 100 | 19985 | 18383 | 2259 |
| MATERIAL FOR SHOULDER CONSTRUCTION | | | 168 | 168 | |
| LOSS DUE TO CLEARING & GRUBBING | -350 | | | 350 | |
| ADDITIONAL UNDERCUT | | 2050 | | | 2050 |
| WASTE IN LIEU OF BORROW | | | | -1509 | -1509 |
| PROJECT TOTAL | 3411 | 2150 | 20153 | 17392 | 2800 |
| 5% TO REPLACE BORROW | | | | 870 | |
| GRAND TOTAL | 3411 | 2150 | 20153 | 18262 | 2800 |
| SAY | 3600 | | | 19200 | |

NOTE: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".

SUMMARY OF REMOVAL EXISTING ASPHALT PAVEMENT

| SURVEY LINE | STATION | STATION | LOCATION LT/RT/CL | SY |
|--------------------|---------|---------|-------------------|---------|
| L | 18+84 | 22+10 | LT | 1398.01 |
| L | 31+40 | 34+07 | LT | 172.76 |
| L | 48+00 | 49+16 | RT | 36.14 |
| L | 48+13 | 50+00 | LT | 65.52 |
| L | 49+74 | 51+14 | RT | 65.47 |
| L | 51+79 | 53+50 | RT | 114.19 |
| Y1 | 11+05 | 13+40 | RT | 12.67 |
| Y1 | 13+40 | 14+50 | RT | 331.79 |
| Y2 | 10+26 | 11+59 | RT | 542.44 |
| Y5 | 10+39 | 12+04 | LT | 391.22 |
| Y6 | 12+50 | 14+46 | CL | 621.08 |
| Y7 | 10+15 | 10+75 | RT | 21.69 |
| Y7 | 10+15 | 10+75 | LT | 21.66 |
| Y7 | 10+75 | 11+38 | CL | 280.05 |
| TEMPORARY PAVEMENT | | | | |
| L | 15+00 | 19+25 | | 234.78 |
| L | 30+98 | 34+20 | | 90.56 |
| TOTAL: | | | | 4400.05 |
| SAY: | | | | 4625 |

SUMMARY OF VINYL COATED CHAIN LINK FENCE, 72" FABRIC

| SURVEY LINE | STATION | STATION | LOCATION LT/RT/CL | A | B | C | D | E | F |
|-------------|----------|----------|-------------------|-------------|---------------|------------------|----------------|----------------|--------------------|
| | | | | FABRIC L.F. | END BRACE EA. | CORNER BRACE EA. | LINE BRACE EA. | LINE POSTS EA. | TERMINAL POSTS EA. |
| -L- | 17+78.86 | 19+20.11 | RT | 149.44' | 2 | 2 | | 12.45 | 4 |
| -L- | 31+57.34 | 32+75.41 | RT | 119.56' | 2 | 1 | | 9.80 | 3 |
| TOTAL: | | | | 269.00' | | | | 22.25 | 7 |
| SAY: | | | | 280' | | | | 23 | 7 |

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 12/06/07