| COMPUTED BY: LTS | DATE: 1/27/23 |
|---|---|
| CHECKED BY: MBC | DATE: 3/2/23 |

| PROJECT NO. | SHEET NO. |
|---|---|
| BR-0096 | 3B-1 |

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

## SUMMARY OF EARTHWORK

IN CUBIC YARDS

| Station | Station | Uncl. Excav. | Embank. +% | Borrow | Waste |
|---|---|---|---|---|---|
| -L- 12+50.00 | 14+94.15 | 6 | 2458 | 2452 | |
| -L- 15+50.62 | 18+00.00 | 7 | 2198 | 2191 | |
| -Y- 14+56.38 | -Y- 18+33.69 | 105 | 785 | 680 | |
| -Y1- 12+50.00 | 13+44.62 | 127 | 40 | | 87 |
| | | | | | |
| PROJECT SUB TOTALS: | | 244 | 5479 | 5323 | 87 |
| Shoulder Material | | | 36 | 36 | |
| Waste in Lieu of Borrow | | | | -87 | -87 |
| | | | | | |
| | | 244 | 5515 | 5272 | 0 |
| SHOULDER MATERIAL | | | | | |
| Est 5% To Replace Topsoil at Borrow Pit | | | | 264 | |
| | | | | | |
| GRAND TOTALS: | | 244 | 5515 | 5535 | |
| SAY: | | 300 | | 6100 | |

ESTIMATED UNDERCUT = 550 CY CONTINGENCY
ESTIMATED SELECT GRANULAR MATERIAL = 200 CY CONTINGENCY

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

APPROXIMATE QUANTITIES ONLY. FINE GRADING, CLEARING AND GRUBBING, UNCLASSIFIED EXCAVATION, REMOVAL OF EXISTING PAVEMENT, AND BREAKING OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

## SHOULDER BERM GUTTER SUMMARY

IN FEET

| LINE | Station | Station | LENGTH |
|---|---|---|---|
| L | 14+66.00 | 14+87.49 | 21.5 |
| L | 14+66.00 | 14+76.45 | 10.5 |
| L | 15+68.35 | 15+80.00 | 11.7 |
| L | 15+57.31 | 15+80.00 | 22.7 |
| | | | |
| | | | |
| | | | |
| | | TOTAL: | 66.4 |
| | | | |
| | | SAY: | 67.0 |

## PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

| SURVEY LINE | Station | Station | LOCATION LT/RT/CL | ASPHALT REMOVAL | ASPHALT BREAKUP |
|---|---|---|---|---|---|
| -L- | 13+72 | 14+02 | CL | 79.67 | |
| -L- | 16+37 | 17+30 | CL | 202.99 | |
| -L- | 14+02 | 14+52 | CL | | 129.53 |
| -L- | 15+87 | 16+37 | CL | | 128.58 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | TOTAL: | | 282.66 | 258.11 |
| | | | | | |
| | | SAY: | | 290 | 260 |

## GUARDRAIL SUMMARY

"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

| LINE | BEG. STA. | END STA. | LOC. | LENGTH (FT.) STRAIGHT | LENGTH (FT.) SHOP CURVED | LENGTH (FT.) DOUBLE FACED | WARRANT POINT APPR. END | WARRANT POINT TRAIL. END | "N" DIST. FROM E.O.L. | TOTAL SHLDR WIDTH | FLARE LENGTH APPR. END | FLARE LENGTH TRAIL. END | W APPR. END | W TRAIL. END | ANCHORS GREU TL-3 | ANCHORS GREU TL-2 | ANCHORS TYPE B-77 | ANCHORS TYPE III | ANCHORS TYPE AT-1 | ANCHORS TEMP GREU TL-3 | ANCHORS TEMP B-77 | IMP. ATTEN. TYPE 350 EA | IMP. ATTEN. TYPE 350 G | IMP. ATTEN. TYPE 350 NG | REMOVE EXISTING GUARDRAIL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -L- | 12+56.04 | 15+01.82 | LT | 245.78 | | | 15+01.82 | | 4' | 7' | | | | | | 1 | 1 | | | | | | | | 66' | lengthen by 2.68 |
| -L- | 13+57.07 | 14+90.06 | RT | 132.99 | | | | 14+90.06 | 4' | 7' | | | | | | 1 | 1 | | | | | | | | 91' | lengthen by 8.91 |
| -L-/-Y1- | -L- 15+56.44 | -Y1- 12+69.37 | LT | 131.02 | 70.7' | | -L- 15+56.44 | | 4' | 7' | | | | | | 1 | 1 | | | | | | | | 79' | lengthen by 4.65 |
| -L- | 15+45.39 | 16+21.81 | RT | 76.42 | 17.4' | | | 15+45.39 | 4' | 7' | | | | | | | 1 | | 1 | | | | | | 41' | lengthen by 11.24 |
| -Y- | 15+02.94 | 15+88.31 | LT | 81.25 | | | | 15+88.31 | 8' | 11' | | | | | 1 | | 1 | | | | | | | | | |
| -Y- | 16+98.11 | 17+83.07 | LT | 81.25 | | | 16+98.11 | | 8' | 11' | | | | | 1 | | 1 | | | | | | | | | |
| -Y- | 15+72.54 | 16+13.12 | RT | 25.00 | 42.0' | | | 16+13.12 | 8' | 11' | | | | | | | 1 | | 1 | | | | | | | |
| -Y- | 17+23.43 | 18+09.23 | RT | 81.25 | | | 17+23.43 | | 8' | 11' | | | | | 1 | | 1 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y- | 15+76.22 | 17+55.57 | RT | | | | | | | | | | | | | | | | | | | | | | 179' | |
| -Y- | 15+79.04 | 17+54.26 | LT | | | | | | | | | | | | | | | | | | | | | | 175' | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SUB-TOTALS | | 854.96 | 130.1' | | | | | | | | | | 3 | 3 | 8 | | 2 | | | | | | 632' | SUB-TOTAL |
| DEDUCTION FOR ANCHOR UNITS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GREU TL-3 @ 50' | | 3 | -150.00 | | | | | | | | | | | | | | | | | | | | | | |
| | GREU TL-2 @ 25' | | 3 | -75.00 | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE B-77 @ 18.75' | | 8 | -150.00 | | | | | | | | | | | | | | | | | | | | | | |
| | AT-1 @ 6.25' | | 2 | -12.50 | | | | | | | | | | | | | | | | | | | | | | |
| | | PROJECT TOTAL | | 467.46 | 130.1' | | | | | | | | | | 3 | 3 | 8 | | 2 | | | | | | 632' | PROJECT TOTAL |
| | | SAY | | 475.00 | 137.50 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL GUARDRAIL POSTS = 5 EA | | | | | | | | | | | | | | | | | | | | | | | | | | |