| COMPUTED BY: TP | DATE: 12-07-15 |
|---|---|
| CHECKED BY: JW | DATE: 12-07-15 |

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 17BP.2.R.56 | 3A |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

# LIST OF PIPES, ENDWALLS, ETC.

| STATION | LOCATION (LT,RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | PIPE REMOVAL LIN.FT. | | ALUMINUM BOX CULVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | | | | | | | | | | | | | | | | | 31'-5" X 7'-3" X 60'-0" |
| THICKNESS OR GAUGE | | | | | | | | | | | | | | | | | |
| -L- 13+55.79 | RT | 1 | | | 11.06 | 10.66 | 1.0% | 40' | | | | | | | | | |
| -L- 14+76.00 | CL | 2 | | | 5.49 | 4.29 | 2.0% | | | | | | | | | | 60' |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 40' | | | | | | | | | 60' |

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

## SUMMARY OF EARTHWORK
### IN CUBIC YARDS

| LOCATION | UNCLASSIFIED EXCAVATION | BOX CULVERT EXCAVATION | UNDERCUT | EMBT+% | BORROW | WASTE |
|---|---|---|---|---|---|---|
| -L- 13+00.00 - 15+50.00 | 129 | | 0 | 510 | 410 | 29 |
| | | | | | | |
| | | | | | | |
| UNDERCUT (CONTINGENCY) | | | 100 | 120 | 120 | 100 |
| | | | | | | |
| UNCLASSIFIED STRUCTURE EXCAVATION | | 1356 | | 1000 | | 356 |
| | | | | | | |
| SUB TOTAL | 129 | 1356 | 100 | 1630 | 530 | 485 |
| | | | | | | |
| SAY | 130 | 1360 | 100 | 1630 | 530 | 490 |

## PAVEMENT REMOVAL SUMMARY
### IN SQUARE YARDS

| LINE | STATION - STATION | LOCATION | REMOVAL (SY) |
|---|---|---|---|
| -L- | 14+00.00 - 15+50.00 | CL | 300 |
| | | | |
| | | | |
| TOTAL | | | 300 |
| | | | |
| SAY | | | 310 |

NOTE:

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

"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 STRAIGHT | LENGTH SHOP CURVED | LENGTH DOUBLE FACED | WARRANT POINT APPROACH END | WARRANT POINT TRAILING END | "N" DIST. FROM E.O.L. | TOTAL SHOULDER WIDTH | FLARE LENGTH APPROACH END | FLARE LENGTH TRAILING END | W APPROACH END | W TRAILING END | ANCHORS TYPE 350 | IMPACT ATTENUATOR TYPE 350 NO. | PERMITTED G | PERMITTED NG | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -L- | 13+72.11 | 15+71.81 | LT | 100 | | | 15+71.81 | 13+72.11 | 5 | 8 | 50 | 50 | 1 | 1 | 2 | | | | |
| -L- | 13+79.92 | 15+80.19 | RT | 100 | | | 13+79.92 | 15+80.19 | 5 | 8 | 50 | 50 | 1 | 1 | 2 | | | | |
| | TOTAL | | | 200 | | | | | | | | | | | 4 | | | | |

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G:\PROJECTS\CRAVEN\craven124_dd2_psh3A.dgn
$$$$USERNAME$$$$