

COMPUTED BY: JMP DATE: 5-2017
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STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PLANS PREPARED BY: **PARSONS**
 RALEIGH, NORTH CAROLINA, (919) 854-1345
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO. B-4770 SHEET NO. 3B-1

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

| STATION | STATION | UNCL. EXCAV. | UNDERCUT | EMBANK. | BORROW | WASTE |
|---|-------------------------------|--------------|----------|---------|--------|-------|
| -L- 10 + 10.00 | -L- 15 + 26.25 (BEGIN BRIDGE) | 7 | | 654 | 647 | |
| -L- 16 + 93.75 (END BRIDGE) | -L- 20 + 40.00 | 38 | | 146 | 108 | |
| SUBTOTALS: | | 45 | | 800 | 755 | |
| | | | | | | |
| SUBTOTALS: | | | | | | |
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| SUBTOTALS: | | | | | | |
| | | | | | | |
| PROJECT TOTALS: | | | | | | |
| | | 45 | | 800 | 755 | |
| | | | | | | |
| PROJECT TOTAL | | | | | | |
| | | 45 | | 800 | 755 | |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | | |
| | | | | | 40 | |
| GRAND TOTALS: | | | | | | |
| | | 45 | | 800 | 795 | |
| SAY: | | | | | | |
| | | 50 | | 800 | | |

UNDERCUT EXCAVATION CONTINGENCY PER GEOTECH RECS: 200 CY
 SELECT GRANULAR MATERIAL CONTINGENCY PER GEOTECH RECS: 200 CY
 GEOTEXTILE FOR SOIL STABILIZATION CONTINGENCY PER GEOTECH RECS: 200 SY

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.

PAVEMENT REMOVAL SUMMARY

| SURVEY LINE | STATION | STATION | LOCATION LT/RT/CL | YD ³ |
|-------------|---------|---------|-------------------|-----------------|
| -L- | 12 + 00 | 13 + 00 | CL | 222.22 |
| -L- | 14 + 83 | 15 + 33 | CL | 111.11 |
| -L- | 16 + 83 | 18 + 00 | CL | 260.00 |
| TOTAL: | | | | 593.33 |
| SAY: | | | | 600 |

PAVEMENT BREAKING SUMMARY

| SURVEY LINE | STATION | STATION | LOCATION LT/RT/CL | YD ² |
|-------------|---------|---------|-------------------|-----------------|
| -L- | 13 + 00 | 14 + 83 | CL | 406.67 |
| TOTAL: | | | | 406.67 |
| SAY: | | | | 410 |

GUARDRAIL SUMMARY

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

| SURVEY LINE | BEG. STA. | END STA. | LOCATION | LENGTH | | | WARRANT POINT | | "N" DIST. FROM E.O.L. | TOTAL SHOUL. WIDTH | FLARE LENGTH | | W | | ANCHORS | | | | | | | | | | REMARKS | | | | | | | |
|-------------------------|------------|------------|----------|----------|-------------|--------------|---------------|--------------|-----------------------|--------------------|--------------|--------------|--------------|--------------|---------|----|-----------|-------|-----|-------|--------|-----|------|--|---------|--|--|--|--|--|--|--|
| | | | | STRAIGHT | SHOP CURVED | DOUBLE FACED | APPROACH END | TRAILING END | | | APPROACH END | TRAILING END | APPROACH END | TRAILING END | XI MOD | XI | GREU TL-3 | M-350 | III | CAT-1 | VI MOD | BIC | AT-1 | | | | | | | | | |
| -L- | 12 + 51.25 | 15 + 26.25 | LT | 275.00 | | | | 13 + 00.00 | 4 | 7 | | 50 | | 1 | | | | 1 | | | | | | | | | | | | | | |
| -L- | 12 + 51.25 | 15 + 26.25 | RT | 275.00 | | | | 13 + 00.00 | 4 | 7 | 50 | | 1 | | | | | 1 | | | | | | | | | | | | | | |
| -L- | 16 + 93.75 | 18 + 75.00 | LT | 181.25 | | | | 18 + 50.00 | 4 | 7 | 50 | | 1 | | | | | 1 | | | | | | | | | | | | | | |
| -L- | 16 + 93.75 | 18 + 50.00 | RT | 156.25 | | | | 16 + 93.75 | 4 | 7 | | 50 | | 1 | | | | 1 | | | | | | | | | | | | | | |
| TOTAL | | | | 887.50 | | | | | 4 | 7 | | 50 | | 1 | | | | 1 | | | | | | | | | | | | | | |
| DEDUCT FOR ANCHOR UNITS | | | | | | | | | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | |
| GREU TL-3 4 @ 50' = | | | | -200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE III 4 @ 18.75' = | | | | -75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | 612.50 | | | | | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | |
| SAY | | | | 625.00 | | | | | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | |
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