

REPAIR QUANTITY TABLE

| SPAN | SHOTCRETE | QUANTITIES | | | | |
|---------|------------|------------|-----------|---------|----------|-----------|
| | | ESTIMATE | | ACTUAL | | |
| | | AREA SF | VOLUME CF | AREA SF | DEPTH FT | VOLUME CF |
| SPAN 15 | GIRDERS | 6.16 | 2.57 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 16 | GIRDERS | 2.51 | 1.05 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 17 | GIRDERS | 8.82 | 3.72 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 18 | GIRDERS | 2.58 | 1.08 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 19 | GIRDERS | 0.54 | 0.23 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 20 | GIRDERS | 12.01 | 5.00 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 21 | GIRDERS | 36.89 | 15.37 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 22 | GIRDERS | 6.28 | 2.62 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 23 | GIRDERS | 5.34 | 2.23 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 24 | GIRDERS | 4.40 | 1.83 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 25 | GIRDERS | 6.69 | 2.79 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 26 | GIRDERS | 10.31 | 4.30 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 27 | GIRDERS | 19.24 | 8.02 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| SPAN 28 | GIRDERS | 9.56 | 3.98 | | | |
| | DIAPHRAGMS | 0.00 | 0.00 | | | |
| | DECK | 0.00 | 0.00 | | | |

PROJECT NO. B-5936
TYRRELL COUNTY
 BRIDGE NO. 7

SHEET 3 OF 22

DocuSigned by:

Timothy M. Sheppard
 AD50B1D977494CC...

8/10/2016



| | | | | | |
|--|-----|-------|-----|-----|-----------|
| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
| GIRDER, DIAPHRAGM & UNDERDECK REPAIRS | | | | | |
| REVISIONS | | | | | SHEET NO. |
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |
| TOTAL SHEETS | | | | | 394 |

| GIRDER, DIAPHRAGM, & DECK REPAIR TABLES | | | | | |
|---|--------|-----------------------|-------------|---------------------|--------|
| SPAN | MEMBER | LENGTH FROM BENT (FT) | REPAIR SIZE | LOCATION | BAY |
| 21 | G-4 | @ BENT 21 | 2.5' X 0.6' | BOTTOM FLANGE | RT EXT |
| 21 | G-4 | @ BENT 21 | 0.6' X 0.6' | BOTTOM FLANGE | 3 |
| 22 | G-1 | @ BENT 21 | 2.5' X 0.8' | BOTTOM FLANGE | 1 |
| 22 | G-2 | @ BENT 21 | 0.8' X 0.6' | BOTTOM FLANGE | 2 |
| 22 | G-2 | @ BENT 21 | 4' X 0.5' | BOTTOM FLANGE | 2 |
| 22 | G-2 | @ BENT 21 | 0.7' X 0.6' | BOTTOM FLANGE | 1 |
| 22 | G-2 | @ BENT 22 | 0.6' X 1.5' | BOTTOM FLANGE | 1 |
| 22 | G-2 | @ BENT 22 | 0.8' X 0.6' | BOTTOM FLANGE | 1 |
| 23 | G-1 | @ BENT 22 | 1' X 0.6' | BOTTOM FLANGE | 1 |
| 23 | G-2 | @ BENT 23 | 0.7' X 0.6' | BOTTOM FLANGE | 1 |
| 23 | G-3 | @ BENT 23 | 0.7' X 0.6' | BOTTOM FLANGE | 2 |
| 23 | G-4 | @ BENT 23 | 0.5' X 0.6' | BOTTOM FLANGE | RT EXT |
| 23 | G-4 | @ BENT 23 | 6' X 0.6' | BOTTOM FLANGE | 3 |
| 24 | G-1 | @ BENT 23 | 0.7' X 0.5' | BOTTOM FLANGE | 1 |
| 24 | G-1 | @ BENT 24 | 1' X 0.6' | BOTTOM FLANGE | LT EXT |
| 24 | G-2 | @ BENT 23 | 0.5' X 0.5' | BOTTOM FLANGE | 1 |
| 24 | G-2 | @ BENT 24 | 0.8' X 0.6' | BOTTOM FLANGE | 2 |
| 24 | G-3 | @ BENT 23 | 2.3' X 0.8' | BOTTOM FLANGE | 2 |
| 24 | G-3 | @ BENT 24 | 0.7' X 0.6' | BOTTOM FLANGE | 2 |
| 24 | G-4 | @ BENT 23 | 0.5' X 0.6' | BOTTOM FLANGE | 3 |
| 25 | G-2 | 1' FROM INTER. DIA. | 0.5' X 0.3' | WEB | 2 |
| 25 | G-2 | @ BENT 24 | 0.5' X 0.5' | BOTTOM FLANGE | 1 |
| 25 | G-2 | @ BENT 25 | 0.5' X 0.6' | BOTTOM FLANGE | 1 |
| 25 | G-3 | 2' FROM INTER. DIA. | 5' X 0.6' | BOTTOM FLANGE | 2 |
| 25 | G-3 | @ BENT 25 | 0.8' X 0.8' | BOTTOM FLANGE | 3 |
| 25 | G-4 | 1' FROM INTER. DIA. | 3' X 0.6' | BOTTOM FLANGE | 3 |
| 25 | G-4 | @ BENT 24 | 0.5' X 0.5' | BOTTOM FLANGE | 3 |
| 25 | G-4 | @ BENT 25 | 0.5' X 0.6' | BOTTOM FLANGE | 3 |
| 26 | G-1 | @ BENT 25 | 1.5' X 1.5' | BOTTOM FLANGE & WEB | LT EXT |
| 26 | G-1 | 4.5' FROM INTER. DIA. | 2' X 0.5' | BOTTOM FLANGE | 1 |
| 26 | G-2 | @ BENT 25 | 1.3' X .7' | BOTTOM FLANGE | 2 |
| 26 | G-2 | @ BENT 25 | 1.3' X 1.5' | BOTTOM FLANGE & WEB | 1 |
| 26 | G-3 | @ BENT 26 | 1' X 0.6' | BOTTOM FLANGE | 2 |
| 26 | G-4 | @ BENT 26 | 4.5' X 0.8' | BOTTOM FLANGE | 3 |
| 27 | G-1 | 2.5' FROM INTER. DIA. | 2' X 0.5' | BOTTOM FLANGE | 1 |
| 27 | G-1 | @ BENT 26 | 1' X 0.8' | BOTTOM FLANGE | LT EXT |
| 27 | G-2 | 1.5' FROM INTER. DIA. | 1.8' X 0.3' | WEB | 1 |
| 27 | G-3 | @ BENT 26 | 4.5' X 1' | BOTTOM FLANGE | 2 |
| 27 | G-3 | @ BENT 27 | 9' X 0.6' | BOTTOM FLANGE | 2 |
| 27 | G-3 | @ BENT 27 | 1' X 1' | BOTTOM FLANGE | 3 |
| 27 | G-4 | @ BENT 26 | 4.5' X 1' | BOTTOM FLANGE | 3 |
| 27 | G-4 | @ BENT 27 | 3' X 0.5' | BOTTOM FLANGE | RT EXT |
| 28 | G-1 | @ BENT 27 | 0.5' X 0.6' | BOTTOM FLANGE | 1 |
| 28 | G-1 | @ BENT 27 | 3.5' X 0.6' | BOTTOM FLANGE | LT EXT |
| 28 | G-1 | @ BENT 28 | 0.6' X 0.6' | BOTTOM FLANGE | 1 |
| 28 | G-2 | @ BENT 28 | 4' X 0.8' | BOTTOM FLANGE | 1 |
| 28 | G-3 | @ BENT 27 | 5' X 0.6' | BOTTOM FLANGE | 2 |
| 28 | G-4 | @ BENT 28 | 1' X 0.6' | BOTTOM FLANGE | 3 |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 2" CL TO SAWCUT. SEE REPAIR DETAILS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

| GIRDER, DIAPHRAGM, & DECK REPAIR TABLES | | | | | |
|---|--------|-----------------------|-------------|---------------------|--------|
| SPAN | MEMBER | LENGTH FROM BENT (FT) | REPAIR SIZE | LOCATION | BAY |
| 15 | G-1 | @ BENT 15 | 1' X 0.6' | BOTTOM FLANGE | 1 |
| 15 | G-2 | @ BENT 14 | 0.8' X 0.6' | BOTTOM FLANGE | 2 |
| 15 | G-2 | @ BENT 14 | 0.8' X 0.6' | BOTTOM FLANGE & WEB | 1 |
| 15 | G-2 | @ BENT 15 | 0.8' X 0.5' | WEB | 1 |
| 15 | G-2 | 4' FROM INTER. DIA. | 3' X 0.6' | BOTTOM FLANGE | 1 |
| 15 | G-3 | @ BENT 14 | 0.7' X 1.5' | BOTTOM FLANGE | 2 |
| 15 | G-3 | @ BENT 15 | 1' X 0.6' | BOTTOM FLANGE | 3 |
| 15 | G-3 | @ BENT 15 | 0.5' X 0.6' | BOTTOM FLANGE | 2 |
| 15 | G-3 | @ BENT 15 | 0.3' X 1.5' | BOTTOM FLANGE | 2 |
| 16 | G-1 | @ BENT 15 | 1.5' X 0.5' | BOTTOM FLANGE | LT EXT |
| 16 | G-1 | @ BENT 15 | 0.8' X 0.4' | WEB | RT EXT |
| 16 | G-2 | @ BENT 15 | 0.8' X 0.5' | BOTTOM FLANGE | 1 |
| 16 | G-2 | 2' FROM BENT 15 | 0.8' X 0.3' | WEB | 1 |
| 16 | G-3 | @ BENT 15 | 0.5' X 0.6' | BOTTOM FLANGE | 3 |
| 16 | G-4 | @ BENT 16 | 1' X 0.5' | BOTTOM FLANGE | RT EXT |
| 17 | G-1 | @ BENT 16 | 0.7' X 0.6' | BOTTOM FLANGE | 1 |
| 17 | G-2 | @ BENT 16 | 0.4' X 1.5' | BOTTOM FLANGE | 1 |
| 17 | G-2 | @ BENT 17 | 0.7' X 0.6' | BOTTOM FLANGE | 2 |
| 17 | G-2 | @ BENT 17 | 0.7' X 0.6' | BOTTOM FLANGE | 1 |
| 17 | G-3 | @ BENT 16 | 5.7' X 0.8' | BOTTOM FLANGE | 2 |
| 17 | G-3 | @ BENT 16 | 0.8' X 0.8' | WEB | 2 |
| 17 | G-3 | @ BENT 17 | 0.7' X 0.6' | BOTTOM FLANGE | 3 |
| 17 | G-4 | 2' FROM BENT 16 | 1.5' X 0.5' | BOTTOM FLANGE | RT EXT |
| 17 | G-4 | @ BENT 16 | 0.3' X 1.7' | BOTTOM FLANGE | 3 |
| 17 | G-4 | 3.5' FROM INTER. DIA. | 0.3' X 0.6' | BOTTOM FLANGE | 3 |
| 18 | G-1 | @ BENT 17 | 1' X 0.6' | BOTTOM FLANGE | 1 |
| 18 | G-1 | @ BENT 18 | 1' X 1.5' | BOTTOM FLANGE | LT EXT |
| 18 | G-2 | @ BENT 18 | 0.8' X 0.6' | BOTTOM FLANGE | 1 |
| 19 | G-1 | @ BENT 18 | 0.1' X 0.6' | BOTTOM FLANGE | LT EXT |
| 19 | G-4 | @ BENT 19 | 0.8' X 0.6' | BOTTOM FLANGE | 3 |
| 20 | G-1 | @ BENT 20 | 1.5' X 1.5' | BOTTOM FLANGE & WEB | 1 |
| 20 | G-2 | @ BENT 16 | 1' X 0.6' | BOTTOM FLANGE | 1 |
| 20 | G-2 | @ BENT 16 | 2.5' X 0.7' | BOTTOM FLANGE | 3 |
| 20 | G-2 | @ BENT 20 | 1.3' X 0.8' | BOTTOM FLANGE | 2 |
| 20 | G-2 | @ BENT 20 | 1' X 0.3' | BOTTOM FLANGE | 1 |
| 20 | G-2 | 3.5' FROM INTER. DIA. | 0.3' X 0.3' | WEB | 2 |
| 20 | G-3 | @ BENT 16 | 1.3' X 0.6' | BOTTOM FLANGE | 2 |
| 20 | G-3 | @ BENT 20 | 0.7' X 0.6' | BOTTOM FLANGE | 3 |
| 20 | G-3 | @ BENT 20 | 0.7' X 0.6' | BOTTOM FLANGE | 2 |
| 20 | G-3 | @ BENT 20 | 1' X 1.5' | BOTTOM FLANGE | 2 |
| 20 | G-4 | @ BENT 20 | 2.7' X 0.8' | BOTTOM FLANGE | RT EXT |
| 20 | G-4 | @ BENT 20 | 1' X 0.7' | BOTTOM FLANGE | 3 |
| 21 | G-1 | @ BENT 20 | 0.8' X 0.8' | BOTTOM FLANGE | 1 |
| 21 | G-1 | @ BENT 20 | 2.3' X 0.8' | BOTTOM FLANGE | LT EXT |
| 21 | G-2 | @ BENT 20 | 0.5' X 1.5' | BOTTOM FLANGE | 1 |
| 21 | G-2 | @ BENT 20 | 3' X 9' | BOTTOM FLANGE | 1 |
| 21 | G-2 | @ BENT 21 | 1' X 0.8' | BOTTOM FLANGE | 1 |
| 21 | G-3 | @ BENT 20 | 1' X 0.6' | BOTTOM FLANGE | 3 |
| 21 | G-3 | @ BENT 20 | 2.5' X 1' | BOTTOM FLANGE | 2 |
| 21 | G-4 | @ BENT 20 | 1.5' X 0.6' | BOTTOM FLANGE | 3 |

DRAWN BY : M.ALEE DATE : 6/2016
 CHECKED BY : T.SHERRILL DATE : 6/2016
 DESIGN ENGINEER OF RECORD: T.SHERRILL DATE : 6/2016