

| GIRDER, DIAPHRAGM, & DECK REPAIR TABLES | | | | | | |
|---|----------|-----------------------|---------------------|--------------------|-----------------------|--------|
| SPAN | MEMBER | LENGTH FROM BENT (FT) | APPROX. REPAIR SIZE | ACTUAL REPAIR SIZE | LOCATION | BAY |
| 45 | G-1 | @ BENT 45 | 0.7' X 0.8' | | * BOTTOM FLANGE | LT EXT |
| 45 | G-2 | 6' FROM BENT 45 | 3.5' X 0.6' | | * BOTTOM FLANGE | 1 |
| 45 | G-2 | @ BENT 45 | 0.7' X 0.7' | | * BOTTOM FLANGE | 2 |
| 45 | G-2 | 8' FROM INTER. DIA. | 3' X 0.3' | | * BOTTOM FLANGE | 2 |
| 45 | G-3 | @ BENT 44 | 1.5' X 0.7' | | * BOTTOM FLANGE | 3 |
| 46 | G-2 | @ BENT 45 | 0.7' X 0.5' | | * BOTTOM FLANGE | 1 |
| 46 | G-3 | @ BENT 45 | 2.7' X 0.3' | | * BOTTOM FLANGE | 2 |
| 46 | G-3 | @ BENT 46 | 0.7' X 0.5' | | * BOTTOM FLANGE | 2 |
| 46 | G-4 | 3' FROM BENT 45 | 3.3' X 0.5' | | * BOTTOM FLANGE | 3 |
| 46 | G-4 | 3' FROM BENT 46 | 3.2' X 0.4' | | * BOTTOM FLANGE | 3 |
| 46 | G-4 | @ BENT 45 | 2.4' X 1.5' | | * BOTTOM FLANGE | 3 |
| 47 | G-2 | 2' FROM BENT 47 | 2.7' X 0.5' | | * BOTTOM FLANGE | 1 |
| 47 | G-2 | @ BENT 47 | 0.5' X 0.7' | | * BOTTOM FLANGE | 1 |
| 47 | G-3 | @ BENT 47 | 2.1' X 0.6' | | * BOTTOM FLANGE | 2 |
| 47 | G-3 | @ BENT 47 | 1.8' X 0.4' | | * BOTTOM FLANGE | 3 |
| 47 | G-4 | @ BENT 47 | 3.1' X 0.5' | | * BOTTOM FLANGE | 3 |
| 47 | G-4 | 5.5' FROM INTER. DIA. | 3.5' X 0.6' | | * BOTTOM FLANGE | 3 |
| 48 | G-1 | @ BENT 48 | 0.8' X 0.8' | | * BOTTOM FLANGE | 1 |
| 48 | G-2 | @ BENT 48 | 0.9' X 0.8' | | * BOTTOM FLANGE | 1 |
| 48 | G-4 | @ BENT 47 | 1.3' X 0.5' | | * BOTTOM FLANGE | RT EXT |
| 49 | G-2 | @ BENT 48 | 1.3' X 0.8' | | * BOTTOM FLANGE | 1 |
| 49 | G-3 | @ BENT 48 | 2.3' X 0.8' | | * BOTTOM FLANGE | 2 |
| 49 | G-3 | @ BENT 49 | 0.6' X 0.6' | | * BOTTOM FLANGE | 2 |
| 49 | G-3 | @ BENT 49 | 0.4' X 0.6' | | * BOTTOM FLANGE | 3 |
| 49 | G-4 | @ BENT 48 | 1.2' X 1.2' | | * BOTTOM FLANGE | 3 |
| 50 | G-1 | @ BENT 50 | 0.5' X 0.5' | | * BOTTOM FLANGE | 1 |
| 50 | G-3 | @ BENT 49 | 0.5' X 1.3' | | * BOTTOM FLANGE | 3 |
| 51 | G-2 | @ BENT 51 | 0.7' X 0.7' | | * BOTTOM FLANGE | 1 |
| 51 | G-2 | @ BENT 51 | 0.7' X 0.7' | | * BOTTOM FLANGE | 2 |
| 51 | G-3 | @ BENT 50 | 1.6' X 0.4' | | * BOTTOM FLANGE | 2 |
| 51 | G-4 | @ BENT 50 | 3.3' X 0.8' | | * BOTTOM FLANGE | 3 |
| 51 | G-4 | @ BENT 51 | 0.6' X 1.3' | | * BOTTOM FLANGE | 3 |
| 52 | END DIA. | @ BENT 51 | 2.5' X 0.8' | | DIAPHRAGM | 2 |
| 52 | G-1 | @ BENT 52 | 0.5' X 1.3' | | * BOTTOM FLANGE & WEB | 1 |
| 52 | G-2 | @ BENT 51 | 2.3' X 0.7' | | * BOTTOM FLANGE | 1 |
| 52 | G-2 | @ BENT 52 | 0.9' X 0.8' | | * BOTTOM FLANGE | 1 |
| 52 | G-4 | @ BENT 51 | 1' X 0.5' | | * BOTTOM FLANGE | 3 |
| 52 | G-4 | @ BENT 52 | 1' X 0.8' | | * BOTTOM FLANGE | 3 |
| 53 | G-2 | 2.5' FROM INTER. DIA. | 0.5' X 0.6' | | * BOTTOM FLANGE | 1 |
| 53 | G-3 | @ BENT 52 | 0.3' X 0.5' | | * BOTTOM FLANGE | 3 |
| 53 | G-4 | @ BENT 53 | 0.3' X 0.6' | | * BOTTOM FLANGE | 3 |
| 54 | G-3 | 3' FROM INTER. DIA. | 0.7' X 0.7' | | * BOTTOM FLANGE | 3 |
| 54 | G-3 | @ BENT 53 | 1.3' X 0.3' | | * BOTTOM FLANGE | 2 |
| 54 | G-4 | 3.5' FROM INTER. DIA. | 0.3' X 0.3' | | * BOTTOM FLANGE | 3 |
| 55 | G-2 | 3' FROM INTER. DIA. | 0.5' X 0.5' | | * BOTTOM FLANGE | 2 |
| 55 | G-2 | @ BENT 55 | 0.3' X 0.6' | | * BOTTOM FLANGE | 2 |
| 55 | G-3 | @ BENT 54 | 0.7' X 0.3' | | * BOTTOM FLANGE | 3 |
| 55 | G-3 | @ BENT 55 | 1' X 0.6' | | * BOTTOM FLANGE | 3 |
| 55 | G-3 | @ BENT 55 | 1.5' X 1' | | * BOTTOM FLANGE | 2 |
| 55 | G-4 | @ BENT 54 | 0.5' X 0.6' | | * BOTTOM FLANGE | 3 |

| GIRDER, DIAPHRAGM, & DECK REPAIR TABLES | | | | | | |
|---|--------|-----------------------|---------------------|--------------------|-----------------------|--------|
| SPAN | MEMBER | LENGTH FROM BENT (FT) | APPROX. REPAIR SIZE | ACTUAL REPAIR SIZE | LOCATION | BAY |
| 55 | G-4 | @ BENT 55 | 1.5' X 0.5' | | * BOTTOM FLANGE | RT EXT |
| 56 | G-1 | @ BENT 56 | 1' X 0.7' | | * BOTTOM FLANGE | 1 |
| 56 | G-2 | 2.5' FROM BENT 56 | 0.3' X 0.3' | | * BOTTOM FLANGE | 1 |
| 56 | G-2 | @ BENT 55 | 1' X 1' | | * BOTTOM FLANGE | 1 |
| 56 | G-2 | @ BENT 56 | 1.3' X 0.7' | | * BOTTOM FLANGE | 2 |
| 56 | G-3 | @ BENT 56 | 1' X 1.5' | | * BOTTOM FLANGE | 2 |
| 56 | G-4 | @ BENT 55 | 0.7' X 0.6' | | * BOTTOM FLANGE | 3 |
| 56 | G-4 | @ BENT 56 | 2.3' X 0.8' | | * BOTTOM FLANGE | 3 |
| 57 | G-1 | 4' FROM BENT 56 | 0.5' X 0.5' | | * BOTTOM FLANGE | 1 |
| 57 | G-1 | @ BENT 57 | 0.7' X 0.7' | | * BOTTOM FLANGE | 1 |
| 57 | G-1 | @ BENT 57 | 0.7' X 0.8' | | * BOTTOM FLANGE | LT EXT |
| 57 | G-2 | @ BENT 56 | 2.3' X 0.5' | | * BOTTOM FLANGE | 2 |
| 57 | G-2 | @ BENT 56 | 0.7' X 0.7' | | * BOTTOM FLANGE | 1 |
| 57 | G-3 | @ BENT 56 | 0.2' X 0.8' | | * BOTTOM FLANGE | 2 |
| 57 | G-3 | @ BENT 57 | 2.5' X 0.7' | | * BOTTOM FLANGE | 3 |
| 57 | G-4 | @ BENT 56 | 0.2' X 0.8' | | * BOTTOM FLANGE | 3 |
| 58 | G-1 | 15' FROM INTER. DIA. | 4' X 0.6' | | * BOTTOM FLANGE | RT EXT |
| 58 | G-1 | @ BENT 58 | 2' X 0.6' | | * BOTTOM FLANGE | 1 |
| 58 | G-2 | 15' FROM BENT 57 | 0.5' X 0.5' | | * BOTTOM FLANGE & WEB | 1 |
| 58 | G-3 | @ BENT 57 | 3' X 0.8' | | * BOTTOM FLANGE | 2 |
| 58 | G-4 | @ BENT 57 | 3' X 0.5' | | * BOTTOM FLANGE | 3 |
| 58 | G-4 | @ BENT 58 | 1' X 0.8' | | * BOTTOM FLANGE | 3 |

| REPAIR QUANTITY TABLE | | | | | | |
|-----------------------|--------------|------------|-----------|---------|----------|-----------|
| | | QUANTITIES | | | | |
| | | ESTIMATE | | ACTUAL | | |
| | | AREA SF | VOLUME CF | AREA SF | DEPTH FT | VOLUME CF |
| SPAN 45-58 | SHOTCRETE | | | | | |
| | GIRDERS | 0.00 | 0.00 | | | |
| | DIAPHRAGMS | 2.00 | 1.00 | | | |
| | DECK | 0.00 | 0.00 | | | |
| | EPOXY MORTAR | | | | | |
| | GIRDERS | 63.03 | 18.38 | | | |

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

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

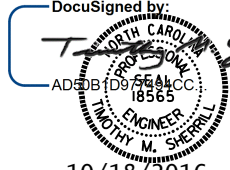
FOR EPOXY MORTAR REPAIRS, SEE SPECIAL PROVISIONS.

CONTRACTOR MAY ELECT TO USE EPOXY MORTAR IN LIEU OF SHOTCRETE.

* ALL REPAIRS IN GIRDER FLANGE OR INCLUDING GIRDER FLANGE IN REPAIR SHALL BE EPOXY MORTAR.

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

SHEET 6 OF 22

DocuSigned by:

10/18/2016

| 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 | | |
| | | | | | S-21 |
| | | | | | TOTAL SHEETS 394 |

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