


SECTION B - B

| LOCATION | NO. OF BOLTS | TOTAL # OF BOLTS REQUIRED PER LOCATION |
|----------|--------------|--|
| 1 | 1 | 1 |
| 2 | 1 | 1 |
| 3 | 1 | 1 |
| 4 | 1 | 1 |
| 5 | 1 | 1 |
| 6 | 1 | 1 |
| 7 | 1 | 1 |
| 8 | 1 | 1 |
| 9 | 1 | 1 |
| 10 | 1 | 1 |
| 11 | 1 | 1 |
| 12 | 1 | 1 |
| 13 | 1 | 1 |
| 14 | 1 | 1 |
| 15 | 1 | 1 |
| 16 | 1 | 1 |
| 17 | 1 | 1 |
| 18 | 1 | 1 |
| 19 | 1 | 1 |
| 20 | 1 | 1 |
| 21 | 1 | 1 |
| 22 | 1 | 1 |
| 23 | 1 | 1 |
| 24 | 1 | 1 |
| 25 | 1 | 1 |
| 26 | 1 | 1 |
| 27 | 1 | 1 |
| 28 | 1 | 1 |
| 29 | 1 | 1 |
| 30 | 1 | 1 |
| 31 | 1 | 1 |
| 32 | 1 | 1 |
| 33 | 1 | 1 |
| 34 | 1 | 1 |
| 35 | 1 | 1 |
| 36 | 1 | 1 |
| 37 | 1 | 1 |
| 38 | 1 | 1 |
| 39 | 1 | 1 |
| 40 | 1 | 1 |
| 41 | 1 | 1 |
| 42 | 1 | 1 |
| 43 | 1 | 1 |
| 44 | 1 | 1 |
| 45 | 1 | 1 |
| 46 | 1 | 1 |
| 47 | 1 | 1 |
| 48 | 1 | 1 |
| 49 | 1 | 1 |
| 50 | 1 | 1 |
| 51 | 1 | 1 |
| 52 | 1 | 1 |
| 53 | 1 | 1 |
| 54 | 1 | 1 |
| 55 | 1 | 1 |
| 56 | 1 | 1 |
| 57 | 1 | 1 |
| 58 | 1 | 1 |
| 59 | 1 | 1 |
| 60 | 1 | 1 |
| 61 | 1 | 1 |
| 62 | 1 | 1 |
| 63 | 1 | 1 |
| 64 | 1 | 1 |
| 65 | 1 | 1 |
| 66 | 1 | 1 |
| 67 | 1 | 1 |
| 68 | 1 | 1 |
| 69 | 1 | 1 |
| 70 | 1 | 1 |
| 71 | 1 | 1 |
| 72 | 1 | 1 |
| 73 | 1 | 1 |
| 74 | 1 | 1 |
| 75 | 1 | 1 |
| 76 | 1 | 1 |
| 77 | 1 | 1 |
| 78 | 1 | 1 |
| 79 | 1 | 1 |
| 80 | 1 | 1 |
| 81 | 1 | 1 |
| 82 | 1 | 1 |
| 83 | 1 | 1 |
| 84 | 1 | 1 |
| 85 | 1 | 1 |
| 86 | 1 | 1 |
| 87 | 1 | 1 |
| 88 | 1 | 1 |
| 89 | 1 | 1 |
| 90 | 1 | 1 |
| 91 | 1 | 1 |
| 92 | 1 | 1 |
| 93 | 1 | 1 |
| 94 | 1 | 1 |
| 95 | 1 | 1 |
| 96 | 1 | 1 |
| 97 | 1 | 1 |
| 98 | 1 | 1 |
| 99 | 1 | 1 |
| 100 | 1 | 1 |

| | | | | | | TOTAL # OF BOLTS REQUIRED PER LOCATION |
|--|--|--|--|--|--|--|
|--|--|--|--|--|--|--|

PE STAMP &
SIGNATURE ARE
REQUIRED
ON THIS SHEET.

- B. THE DESIGN FORCE SHALL BE THE HORIZONTAL SHEAR FOUND IN STEP "A".
- C. THE BOLT SPACING ALONG THE LENGTH OF THE COVER PLATE SHALL BE DETERMINED BY DIVIDING THE FORCE FOUND IN STEP "B" BY THE PRODUCT OF THE ALLOWABLE SHEAR IN THE BOLT AND BY THE NUMBER OF BOLTS PER SECTION. (BASED ON SINGLE SHEAR CLASS "A" FAYING SURFACE WITH [REDACTED] BOLTS.)
- D. THE MAXIMUM STRESS IN THE COVER PLATE AND THE EXISTING GIRDER, ASSUMING COMPOSITE ACTION WITH THE GIRDER AFTER INSTALLATION OF THE COVER PLATE, SHALL BE LESS THAN THE ALLOWABLE STRESS FOR EACH STEEL.
6. THE COVER PLATE EXTENSION WILL GENERALLY HAVE THE SAME DIMENSION AS THE EXISTING COVER PLATE.
7. THE SPLICE PLATE AND COVER PLATE DIMENSIONS SHOULD BE BASED ON A 1 INCH GAP BETWEEN THE EXISTING COVER PLATE AND THE NEW PLATE.
8. THE NOTES AND DETAILS ON THE PLANS SHOULD BE CONSISTENT WITH THE ASSUMPTIONS MADE ABOVE.
9. THE MINIMUM PLATE THICKNESS SHALL BE [REDACTED]
10. IF THE SPLICE PLATE OR COVER PLATE EXTENSION ARE IN COMPRESSION, THE BOLT SPACING MUST ALSO MEET THE STITCHING AND SEALING REQUIREMENTS OF SUBSECTION 10.24.6. OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES - 17TH EDITION.

| | |
|---|------------------|
|  | CONTRACT NUMBER: |
| | TA |
| | DATE: |
| | 3/10 |
| | DRAWING NUMBER: |
| | * |