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DATE:  
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| TABLE OF FOUNDATION LOADS - 0° SKEW |                            |                       |           |                |                 |
|-------------------------------------|----------------------------|-----------------------|-----------|----------------|-----------------|
| Span Average                        | Minimum Concrete Pile Size | 5XB20 & 5XB28 X-Beams |           |                |                 |
|                                     |                            | Pile Loads            |           |                |                 |
|                                     |                            | DC                    | LL        | Service I<br>① | Strength I<br>② |
| Ft                                  | In.                        | Tons/Pile             | Tons/Pile | Tons/Pile      | Tons/Pile       |
| 40                                  | 18                         | 57                    | 22        | 79             | 110             |
| 45                                  |                            | 62                    | 23        | 85             | 118             |
| 50                                  |                            | 67                    | 24        | 91             | 126             |
| 55                                  | 20                         | 72                    | 25        | 97             | 134             |
| 60                                  |                            | 78                    | 26        | 104            | 143             |
| 65                                  |                            | 83                    | 27        | 110            | 151             |
| 70                                  | 24                         | 88                    | 28        | 116            | 159             |
| 75                                  |                            | 93                    | 29        | 122            | 167             |
| 80                                  |                            | 99                    | 30        | 129            | 176             |
| 85                                  |                            | 104                   | 31        | 135            | 184             |

| TABLE OF FOUNDATION LOADS - 15° SKEW |                            |                       |           |                |                 |
|--------------------------------------|----------------------------|-----------------------|-----------|----------------|-----------------|
| Span Average                         | Minimum Concrete Pile Size | 5XB20 & 5XB28 X-Beams |           |                |                 |
|                                      |                            | Pile Loads            |           |                |                 |
|                                      |                            | DC                    | LL        | Service I<br>① | Strength I<br>② |
| Ft                                   | In.                        | Tons/Pile             | Tons/Pile | Tons/Pile      | Tons/Pile       |
| 40                                   | 18                         | 57                    | 22        | 79             | 110             |
| 45                                   |                            | 62                    | 23        | 85             | 118             |
| 50                                   |                            | 67                    | 24        | 91             | 126             |
| 55                                   | 20                         | 73                    | 25        | 98             | 135             |
| 60                                   |                            | 78                    | 26        | 104            | 143             |
| 65                                   |                            | 83                    | 27        | 110            | 151             |
| 70                                   | 24                         | 88                    | 28        | 116            | 159             |
| 75                                   |                            | 94                    | 29        | 123            | 168             |
| 80                                   |                            | 99                    | 30        | 129            | 176             |
| 85                                   |                            | 104                   | 31        | 135            | 184             |

| TABLE OF FOUNDATION LOADS - 30° SKEW |                            |                       |           |                |                 |
|--------------------------------------|----------------------------|-----------------------|-----------|----------------|-----------------|
| Span Average                         | Minimum Concrete Pile Size | 5XB20 & 5XB28 X-Beams |           |                |                 |
|                                      |                            | Pile Loads            |           |                |                 |
|                                      |                            | DC                    | LL        | Service I<br>① | Strength I<br>② |
| Ft                                   | In.                        | Tons/Pile             | Tons/Pile | Tons/Pile      | Tons/Pile       |
| 40                                   | 18                         | 58                    | 22        | 80             | 111             |
| 45                                   |                            | 63                    | 23        | 86             | 119             |
| 50                                   |                            | 68                    | 24        | 92             | 127             |
| 55                                   | 20                         | 74                    | 25        | 99             | 136             |
| 60                                   |                            | 79                    | 26        | 105            | 144             |
| 65                                   |                            | 84                    | 27        | 111            | 152             |
| 70                                   | 24                         | 89                    | 28        | 117            | 160             |
| 75                                   |                            | 95                    | 29        | 124            | 170             |
| 80                                   |                            | 100                   | 30        | 130            | 178             |
| 85                                   |                            | 105                   | 31        | 136            | 186             |

- ① 1.00DC + 1.00LL (all other loads not included)
- ② 1.25DC + 1.75LL (all other loads not included)

**GENERAL NOTES:**  
 Designed according to AASHTO LRFD Bridge Design Specifications.  
 Pile foundation loads based on exposed height of 24 ft.

FOR DESIGNER'S INFORMATION ONLY.  
 Loads included here within are to be added to the Foundation Notes sheet.

The values shown on these sheets are applicable for use only with the prestressed X-beam trestle bents shown on the standards BTXB-38, BTXB-38-15, and BTXB-38-30.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

**HL93 LOADING**

|                                                                                                                                                               |  |           |           |                          |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----------|--------------------------|-----------|
| Texas Department of Transportation                                                                                                                            |  |           |           | Bridge Division Standard |           |
| <p><b>TRESTLE BENT<br/>         FOUNDATION LOADS<br/>         PRESTRESSED CONCRETE X-BEAMS<br/>         38' ROADWAY</b></p> <p><b><i>XB-BTFL38-24</i></b></p> |  |           |           |                          |           |
| FILE: XB-BTFL38-24.dgn                                                                                                                                        |  | DN: TxDOT | CK: TxDOT | DW: TxDOT                | CK: TxDOT |
| ©TxDOT May 2024                                                                                                                                               |  | CONT      | SECT      | JOB                      | HIGHWAY   |
| REVISIONS                                                                                                                                                     |  |           |           |                          |           |
|                                                                                                                                                               |  | DIST      | COUNTY    |                          | SHEET NO. |