WING ELEVATION
RING LENGTH TO 25'-6"}

SECTION A4

SECTION A5

WING ELEVATION
RING LENGTH OVER 25'-6" TO 29'-6"

DESIGNER NOTES

RING DESIGN IS BASED ON AN EQUIVALENT ELASTIC LIMIT OF 20% OF SRR. A 1.5% DUMPING AND 1.0% STRUCTUREAL REACTION ARE APPLIED TO EACH END.

RING DESIGN IS BASED ON AN EQUIVALENT ELASTIC LIMIT OF 20% OF SRR. A 1.5% DUMPING AND 1.0% STRUCTUREAL REACTION ARE APPLIED TO EACH END.

UNIT LOAD OF SOIL IS ASSUMED AS 2000 P.S.I.

BRIDGE DECK BETWEEN BEARING SHELVE ELONGATION FROM PLATE LOAD P.L.

PLATE LOAD FOR EQUILIBRATION FOR STRUCTURES. ORGANIZATIONAL AND ELEVATION IS CHARTERED TO THE ENGINEERING MANAGER.

PLATE LOAD FOR EQUILIBRATION FOR STRUCTURES. ORGANIZATIONAL AND ELEVATION IS CHARTERED TO THE ENGINEERING MANAGER.

FOR WIND AND EARTHQUAKE, AN IMPROVED REINFORCEMENT IS ATTACHED TO THE STRUCTURAL REINFORCEMENT.

A TERRAIN TO BE CONSIDERED

LAFO DESIGN LOADS

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

STRUCTURES DEVELOPMENT SECTION

APPRAISED: Scot Becker

STANDARD 12.06
36W** GIRDER

\[ A = 652 \text{ sq. in.} \]
\[ r^2 = 158.20 \text{ in.}^2 \]
\[ V_1 = 19.37 \text{ in.} \]
\[ V_0 = 19.43 \text{ in.} \]
\[ t = 99.980 \text{ in.} \]
\[ S_1 = 5.162 \text{ in.} \]
\[ S_2 = -0.062 \text{ in.} \]
\[ W_T = 558 \text{ lb/ft.} \]

PRE-TENSION

\[ P = 270,000 \text{ psi} \]
\[ f_t = 0.75 \times 270,000 = 202,500 \text{ psi} \]

for low relaxation strands

\[ P_I = 0.8 \times 202,500 \times 0.25 \times 0.001 \text{ ksi} \]

\[ V_1 = \frac{5.162 \times 0.68}{r^2} \times 0.20 \times 0.001 \text{ in./in.} \]

\[ \theta = \frac{P_I \times t}{E \times I} \]

STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY

TO AVOID DRAPING OF 0.6** STRANDS

ARRANGEMENT AT 6 SPAN - FOR GIRDER WITH DRAPPED 0.6** STRANDS

<table>
<thead>
<tr>
<th>NO. STRANDS</th>
<th>2T</th>
<th>4T</th>
<th>PIPE/H/10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>103</td>
<td>85</td>
<td>2.4%</td>
</tr>
<tr>
<td>18</td>
<td>107</td>
<td>89</td>
<td>2.9%</td>
</tr>
<tr>
<td>20</td>
<td>112</td>
<td>93</td>
<td>3.1%</td>
</tr>
</tbody>
</table>

STANDARD STRAND PATTERNS FOR UNDRAPPED STRANDS

<table>
<thead>
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36W** PRESTRESSED GIRDER DESIGN DATA

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Scot Becker

DATE: 8-10

STANDARD 19132
INSIDE ELEVATION

SECTION A

SECTION B

SECTION C

PLAN

OUTSIDE ELEVATION

SECTION THRU PARAPET ON BRIDGE

BARS FOR TRANSITION ON BRIDGE

SLOPED FACE PARAPET 5' x 6'