GENERAL NOTES

1. The girders shall be provided with a service lifting device for inspection and cleaning of the girders. All girders shall be cast full length as shown.

2. The girders shall be placed with one end of girders for proper connections of steel girder and non-prestressed concrete slab shall be placed as shown. The girders shall be precast and erected on the site before the superstructure is placed.

3. The girders shall be supported with steel or elastomeric bearings at the ends, and elastomeric bearings shall be placed at the pier locations as detailed. The elastomeric bearings shall be placed so that the superstructure is provided with a minimum clearance of 2" above the top of the girder, and a minimum clearance at the pier locations shall be provided. The girders shall be supported by the elastomeric bearings at the pier locations as detailed.

DEVELOPER NOTES

1. The girders shall be prestressed with a value of 2.5 ksi.

2. The steel plates shall be provided with a minimum thickness of 0.25" and a minimum width of 2".

3. The girders shall be placed with one end of girders for proper connections of steel girder and non-prestressed concrete slab shall be placed as shown. The girders shall be precast and erected on the site before the superstructure is placed.

4. The girders shall be supported with steel or elastomeric bearings at the ends, and elastomeric bearings shall be placed at the pier locations as detailed. The elastomeric bearings shall be placed so that the superstructure is provided with a minimum clearance of 2" above the top of the girder, and a minimum clearance at the pier locations shall be provided. The girders shall be supported by the elastomeric bearings at the pier locations as detailed.

SECTION THRU GIRDER

Note: All dimensions are in inches, all tolerances are in 1/16".
### Expansion End Diaphragm Steel

<table>
<thead>
<tr>
<th>Expansion Length (inches)</th>
<th>No. of Bars</th>
<th>Bar Size (inches)</th>
<th>20°</th>
<th>36°</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5</td>
<td>5/8</td>
<td>5/8</td>
<td>5/8</td>
</tr>
<tr>
<td>≥ 3</td>
<td>≥ 5</td>
<td>≥ 5/8</td>
<td>5/8</td>
<td>5/8</td>
</tr>
<tr>
<td>≥ 6</td>
<td>≥ 6</td>
<td>≥ 5/8</td>
<td>5/8</td>
<td>5/8</td>
</tr>
</tbody>
</table>

### Notes
- Lay lengths for all bars shall be based on a Class 1200 bent steel. Except horizontal bent bars, if specified, can be Class 1000 bent steel.
- See standard plans for expansion joint details.

### Legend
- These dimensions parallel to order.
- Expansion is taken normal to E-substructure units.
- See Standard Plans for expansion joint details.

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**State of Wisconsin**  
**Department of Transportation**  
**Structures Development Section**

**Approved**  
**Scot Becker**

**Standard No. 1**
NOTES ON PLANS

The rate of placing concrete shall equal or exceed 5 ft (1.5 m) per hour for hot weather; 6 ft (1.8 m) per hour for moderate weather; and 7.5 ft (2.3 m) per hour for cool weather. 

100 or more alternate joints may be placed on the same day, provided only when a freezing temperature is shown on plans.

The contractor may submit an alternate pouring sequence subject to the approval of the structures design section. The contractor may submit a pouring sequence for approval to the structures design section if one is not shown on the plans.

DESIGN NOTES

Optimal transfer construction joints shall be detailed on plans to limit the volume of concrete in any single pour. The length of the concrete section shall be limited to a value that reduces cracking due to shrinkage. The design of these joints shall be such that they are placed at points of maximum concrete stress. 

When the distance between joints is greater than 100 ft, a longitudinal construction joint shall be detailed. Longitudinal construction joints shall be placed at least 50 ft from the edge of the slab. 

For slabs over 8 ft in width, the minimum width for the placement of construction joints shall be 2 ft. More than one construction joint shall be placed at no more than 10 ft apart. The slab shall be started at the edge of the slab.

SECTION P

PLAN VIEW - SHOWING PLACEMENT OF TRANSVERSE CONSTRUCTION JOINTS

SLAB POURING SEQUENCE

STATE OF MICHIGAN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Scot Becker
DATE: 7-20

STANDARD 24.11