

NOTES:

1. For the design of welded girders, the span to depth ratio shall be as specified in Part I of the Bridge Manual.
2. The flanges shall be sized as required by design and as follows:
 - For shipping and erection safety, the ratio of the length to width of the compression flange shall be limited to 85 where practical (even at the expense of some additional steel).
 - The flange width may vary over the length of the girder, however constant width flanges are preferred. The top and bottom flanges need not be of the same width.
 - The minimum thickness of any flange shall be $\frac{3}{4}$ ".
3. The web plate thickness shall not be less than $\frac{1}{2}$ ". The Designer shall consider thicker web plates to eliminate transverse stiffeners (see Part I of the Bridge Manual).
4. Where they are required, intermediate stiffeners shall:
 - Be cut short of the tension flange, unless they also serve as cross frame connection plates (see Dwg. No. 5.2.4).
 - Be placed in pairs on both sides of the web, unless a longitudinal stiffener is employed on one side.
 - Not be placed on the outside face of the exterior girders.
 - Have a minimum plate size of $\frac{3}{8}$ " x 5" for spans 90' up to 120' and $\frac{3}{8}$ " x 6" for spans 121' to 150'.
 - Shall be located a minimum of 3' from the C of a splice.
5. The use of longitudinal stiffeners shall be avoided, unless required by design. The longitudinal stiffener shall be placed on the opposite side of the web from the transverse stiffeners. For exterior girders, the longitudinal stiffener should be placed on the outside face.

