



## 10-10 GIRDER REINFORCEMENT SHEET CHECK LIST

### A. General Sheet Layout

1. Orient Plan Views the same as the Girder Layout sheet.
2. Place Top Reinforcement at the top of the sheet and Bottom Reinforcement below.
3. If all reinforcement will not fit on one sheet, detail all top reinforcement on a sheet and all bottom reinforcement on another sheet. Each sheet should cover the limits of a girder layout "frame".
4. The Girder Reinforcement sheets should follow the corresponding Girder Layout Sheet, with the bottom reinforcement preceding the top reinforcement.
5. Longitudinal scale: Usually the same scale as the Girder Layout; but, not less than 1" = 10'.
6. Transverse scale: Exaggerate sufficiently to show reinforcing bars and cut-off number without crowding.
7. Generally, straight bridge or radii of greater than or equal to 1000' with skews 20° or less can be shown with the expanded transverse scale without adverse distortion.
8. On trapezoidal shaped spans, sharp radius curves, and heavy skews, the girder reinforcement should be drawn to true scales both longitudinally and transversely. 1/4" = 1'-0" usually is adequate.

### B. Bottom Reinforcement

1. Only a typical exterior and interior bay need be detailed unless the bridge is in the categories listed in General Sheet Layout, Item 8 above.
2. Reference bar cut-offs from centerline span. Identify centerline Hinge span.
3. Use a reference line for trapezoidal spans and dimension the location with respect to one of the bents.
4. Draw main bars as heavy solid lines, and splice bars as lightweight solid lines.
5. Show outside edge of box and centerline girders.



6. For T-Beams show girder outlines and take a section through the girder at the maximum number of bars.
7. Indicate hooks at the ends of continuous reinforcement where applicable. Usually at abutments and supported side of hinges.
8. Show bundle symbol on bars to be bundled together.

C. Top Reinforcement

1. Detail only an exterior and interior bay and deck overhang, unless the bridge is in the categories listed in General Sheet Layout, Item 8 above.
2. Reference bar cut-offs from centerline bents.
3. Draw main bars as heavy solid lines, and splice bars as lightweight solid lines.
4. Show edge of deck and centerline girders.
5. Place bars in correct positions to satisfy BRIDGE STANDARD PLAN B0-5, DETAIL 5-15.
6. Show hooks on main reinforcement where applicable. Usually at the supporting or cantilever side of hinges.
7. Show bundle symbols on bars to be bundled together.

D. Standard Notes (Use as required)

1. All reinforcement #11 unless otherwise noted.
2. Number at ends of bars indicate the distance in feet from centerline span or reference line for bottom reinforcement and centerline bent for top reinforcement.
3. Bundle bars shown thus: 
4. In area of varying girder spacing, bars shall be bundled as required to provide 3 1/2" minimum clearance between bars and bundles of bars.