

NOTES:

1. The Theoretical Camber shall be shown on the Construction Drawings by either a camber diagram or a table. Provide a minimum number of different camber diagrams for all beams in a given span. Group beams within a span whose maximum total camber does not vary by more than $\frac{1}{8}$ ".
2. The Camber shall be specified by equally spaced ordinates at the mid-length of the segment to be curved and by as many additional points as necessary to be defined clearly.
3. In the calculation for the Minimum Theoretical Camber, do not include camber tolerances. Do not show tolerances on the Construction Drawings.
4. The minimum Theoretical Camber shall be a sum of the following values:
X = 100% Dead Load Deflection
Y = Vertical Curve Camber (See Notes 3 and 4 below)
Z = Additional Camber (from the Table below)

ADDITIONAL CAMBER – "Z"

| Profile Grade | Simple Span | Multiple Simple Spans | Multiple Spans Continuous |
|----------------|----------------------------------|----------------------------------|----------------------------------|
| Vertical Curve | $\frac{1}{16}$ " per 10' of Span | 0 | 0 |
| Tangent | $\frac{1}{8}$ " per 10' of Span | $\frac{1}{16}$ " per 10' of Span | $\frac{1}{16}$ " per 10' of Span |

CAMBER TABLE

| BM. NO. | | SPAN NO. X | | | | | | | | | | |
|---------|---------------------|---------------|------|------|------|------|------|------|------|------|------|--------------------|
| | | CL BRG. ABUT. | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL BRG. ABUT./PIER |
| 1 | STEEL DL DEFLECTION | | | | | | | | | | | |
| | CONC. DL DEFLECTION | | | | | | | | | | | |
| | S.D.L. DEFLECTION | | | | | | | | | | | |
| | VERT. CURVE CAMBER | | | | | | | | | | | |
| | ADDITIONAL CAMBER | | | | | | | | | | | |
| | TOTAL CAMBER | | | | | | | | | | | |
| 2 | STEEL DL DEFLECTION | | | | | | | | | | | |
| | CONC. DL DEFLECTION | | | | | | | | | | | |
| | S.D.L. DEFLECTION | | | | | | | | | | | |
| | VERT. CURVE CAMBER | | | | | | | | | | | |
| | ADDITIONAL CAMBER | | | | | | | | | | | |
| | TOTAL CAMBER | | | | | | | | | | | |

NOTES:

1. Camber values shall be shown in inches.
2. Expand the table, as necessary, for additional beams and spans.
3. $Y = B2 - (B1 + B3)/2$ where:
B1 = Final top of roadway elevation @ CL of Bearing @ Support #1
B2 = Final top of roadway elevation @ mid span of the beam
B3 = Final top of roadway elevation @ CL of Bearing @ Support #2
4. Y = 0 for a Negative Vertical Curve.

