A bridge must be structurally safe and stable, and esthetically pleasing

Bridge Truss Components
Pratt

Howe

Warren (with verticals)
subdivided Warren

K-truss

gusset plate
Bridge Length ≤ 36 inches

5 ≤ Height ≤ 10 inches

Support

10 inches

Bridge Span = 28 inches

Adapted from and courtesy of Riyadh Hindi, PhD, PEng-Director of Billiken BEAMS at Saint Louis University.