CODE

COMMENTARY

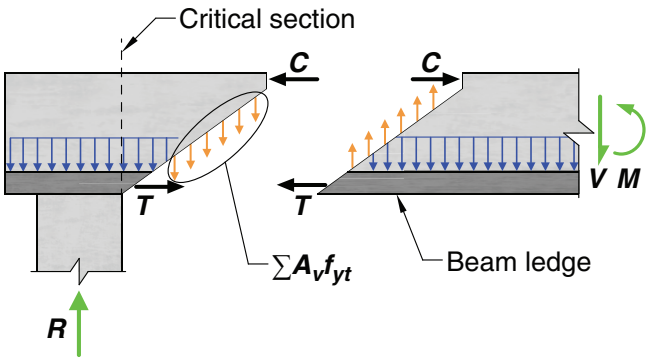

Fig. R9.4.3.2b—Location of critical section for shear in a beam loaded near bottom.

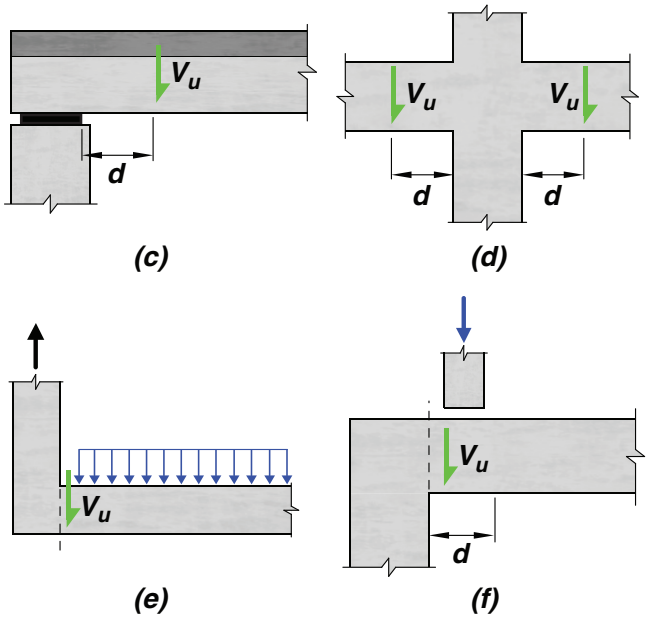

Fig. R9.4.3.2(c), (d), (e), (f)—Typical support conditions for locating factored shear force $\mathbf{V_u}$.

9.4.4 *Factored torsion*

9.4.4.1 Unless determined by a more detailed analysis, it shall be permitted to take the torsional loading from a slab as uniformly distributed along the beam.

9.4.4.2 For beams built integrally with supports, T_u at the support shall be permitted to be calculated at the face of support.

9.4.4.3 Sections between the face of support and a critical section located d from the face of support for nonprestressed beams or $h/2$ from the face of support for prestressed beams shall be permitted to be designed for T_u at that critical section unless a concentrated torsional moment occurs within this distance. In that case, the critical section shall be taken at the face of the support.

R9.4.4 *Factored torsion*

R9.4.4.3 It is not uncommon for a beam to frame into one side of a girder near the support of the girder. In such a case, a concentrated shear and torsional moment are applied to the girder.