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Editor's Note: Tension eld action is most commonly utilized in plate girder design and for special plate shear walls. See AISC's Design Guide 20, Steel Plate Shear Walls (www.aisc.org/epubs) for detailed information on the design and construction of steel plate shear walls.

5.3.7. In many design examples in the 13th Edition *Steel Construction Manual*, yielding and buckling in a gusset plate or similar fitting are checked on a Whitmore section. What is a Whitmore section?

A Whitmore section identi es a theoretically effective cross-sectional area at

the end of a connection resisting tension or compression, such as that from a brace-to-gusset-plate connection or similar tting. As illustrated in Figure 5.3.7-1 for a WT hanger connection, the effective length for the Whitmore section L_w is determined using a spread-out angle of 30° along both sides of the connection, beginning at the start of the connection. It is applicable to both welded and bolted connections.

6.5.2. What is the definition of snugtight bolt installation and when is it allowed?

The 2004 RCSC Speci cation de nes a snug-tightened joint as a joint in which the bolts have been installed in accordance with Section 8.1. Note that no speci c level

Editor's Note: Visit www.aisc.org/faq for FAQs 6.6.4, 6.6.5, 6.6.6, and 6.6.7

6.9.1. The RCSC Specification discusses