☑ Sample detail of permanent restraint/Bracing near end of Building.

Note: All Lateral Restaint and Diagonal Bracing material shall be a minimum of 2x4 Stress-graded Lumber (as specified on the TDD or by the Building Designer).

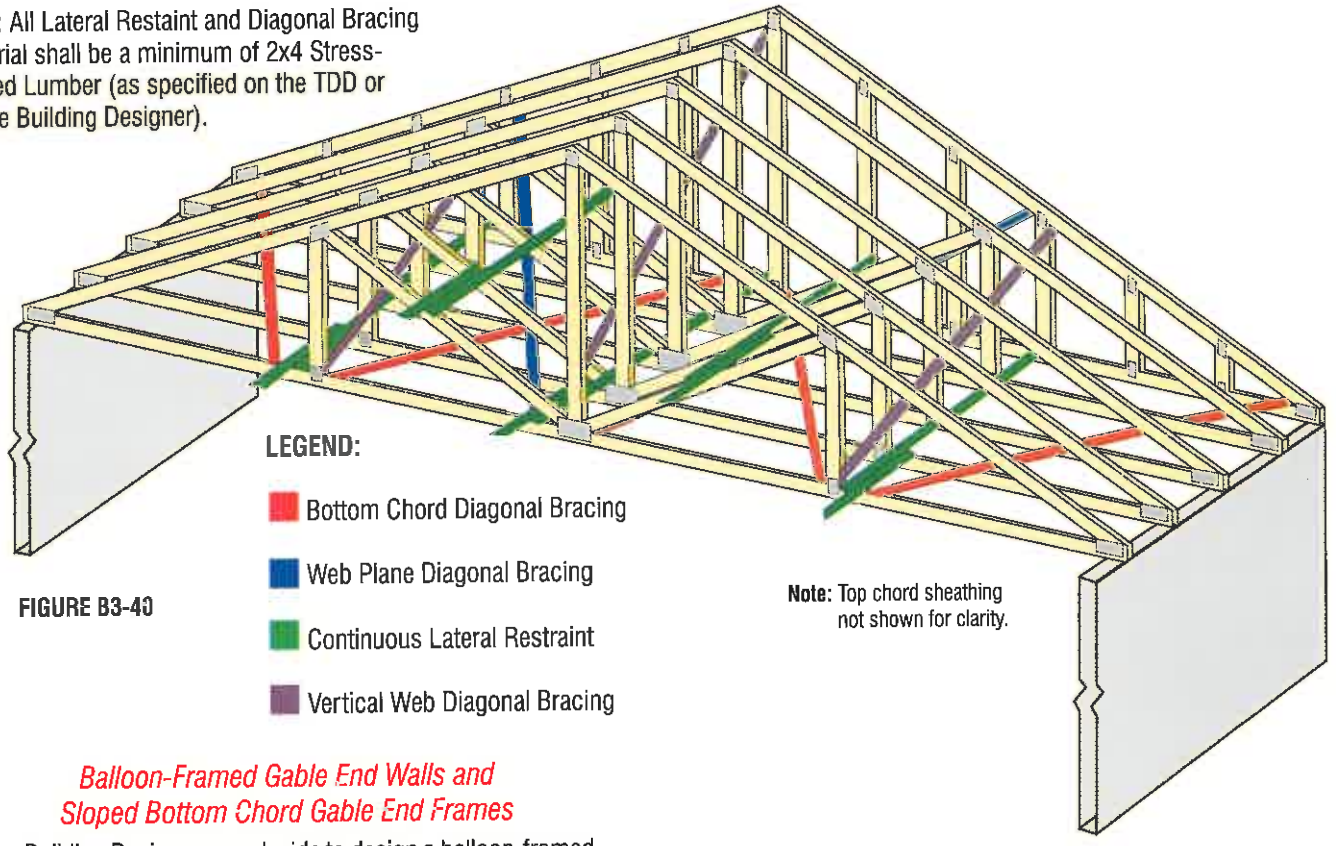
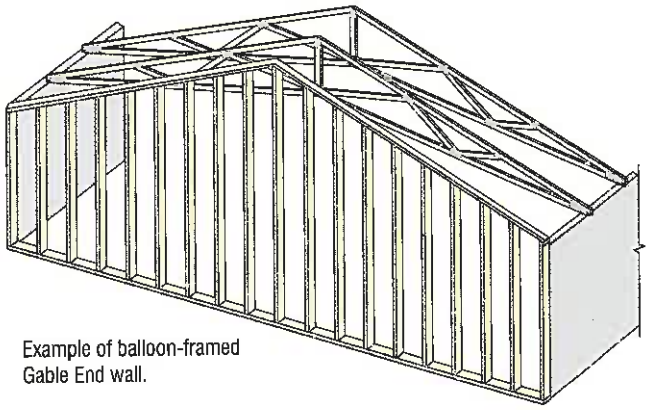


FIGURE B3-40

Balloon-Framed Gable End Walls and Sloped Bottom Chord Gable End Frames

☑ The Building Designer may decide to design a balloon-framed end wall, which eliminates the need for a Gable End Frame (see Figure B3-41). If a Gable End Frame is used, it must match the profile of the adjacent Trusses so that proper Bottom Chord Plane Bracing can be installed (see Figure B3-42A), unless special Bracing is designed to support the end wall.

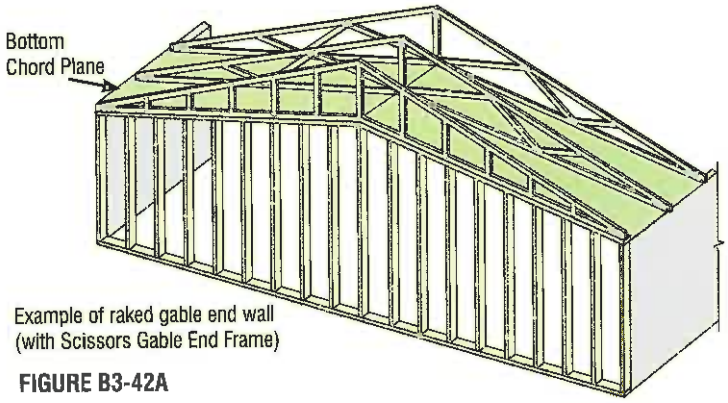
⚠ **CAUTION** A flat Bottom Chord Gable End Frame used with adjacent Trusses that have sloped Bottom Chords (see Figure B3-42B) creates a hinge in the wall/gable interface that is below the Bottom Chord Plane Diaphragm. This condition is prohibited by some Building codes because adequate Bracing of this condition is difficult and sometimes impossible. Special end wall Bracing design considerations are required by the Building Designer if the Gable End Frame profile does not match the adjacent Trusses.



Example of balloon-framed Gable End wall.

Fireblocking not shown for clarity.

FIGURE B3-41



Example of raked gable end wall (with Scissors Gable End Frame)

FIGURE B3-42A

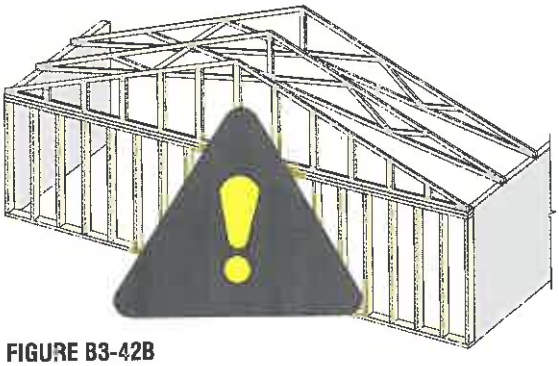


FIGURE B3-42B