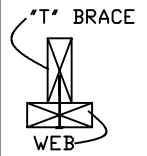


# GABLE BRACING DETAIL (for 2x3 or 2x4 SPF or better Webs) ASCE 7-16 EXP. C

**SECTION A  
"T" BRACE  
DETAIL**



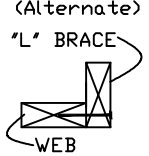
**"T" BRACE**  
WEB

"T" or "L" bracing must be full web length.

Attach "T" or "L" bracing as shown in Section A (or A-Alt.). Use 10d nails or equal as follows:

4" O.C. for web length ≤ 6'-8"  
3" O.C. for web length > 6'-8"

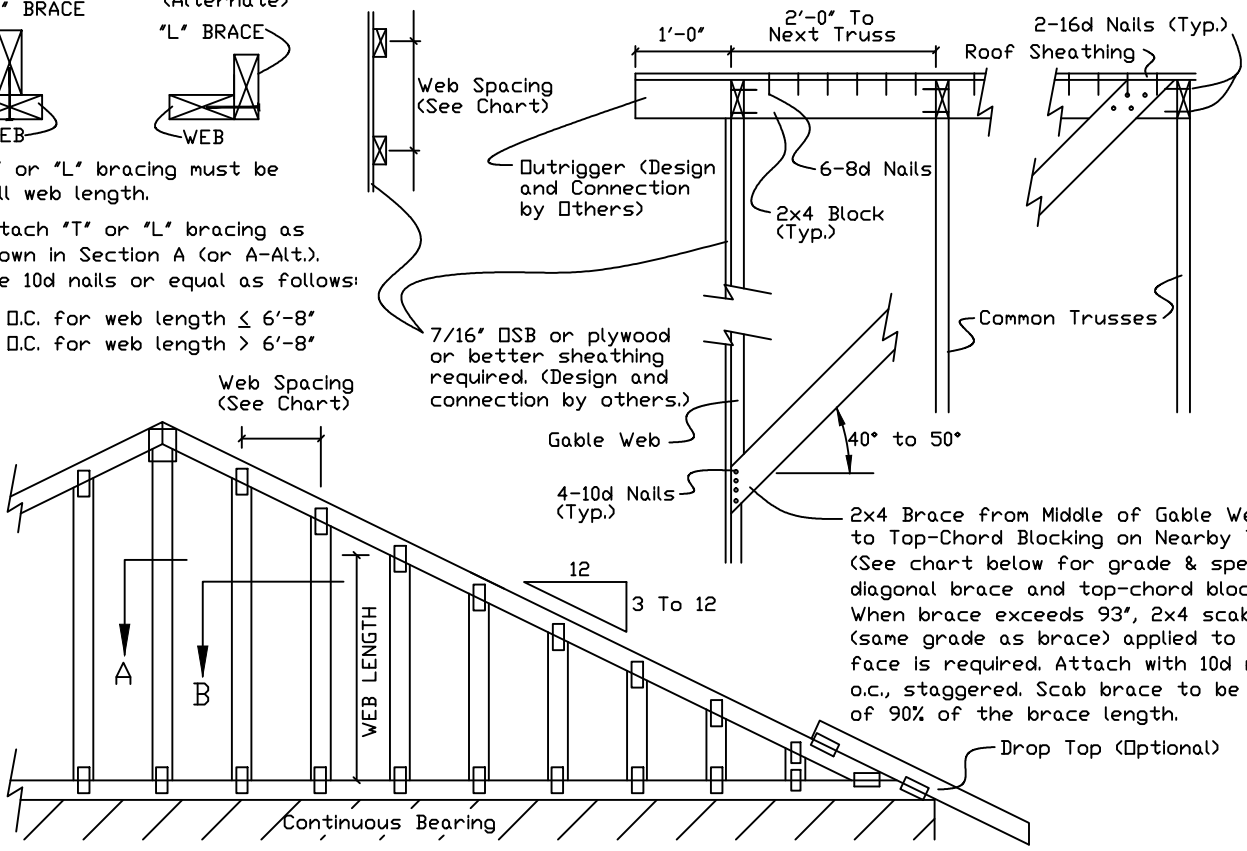
**SECTION A  
"L" BRACE  
DETAIL**



**"L" BRACE**  
WEB

**SECTION B**

**DIAGONAL BRACE DETAIL**



Notes:

Minimum Lumber Size and Grade:  
Top Chord See Engineered Truss Drawing  
Bot. Chord See Engineered Truss Drawing  
Webs 2x3 (See Chart for grade)

Apply all nails in accordance to the NDS. All nails are gun/box nails or equivalent.

Bracing (designed by others) is required at the truss bottom to resist horizontal forces from the wall. The determination of all lateral forces is beyond the scope of the component designer and is the building designer's responsibility.

Design meets IBC/IRC code requirements. Maximum wind speed is 115 mph. Building is enclosed, exposure category C. Designed for end zone conditions. Wind load duration factor is 1.60. No diaphragm loads are considered. Maximum wind mean roof height is 30 feet. Kzt = 1.0

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

Refer to common truss design for peak, splice, and heel plates.

Brace/Web Material	MAXIMUM 2x3 WEB LENGTH WITHOUT BRACING *		MAXIMUM 2x3 WEB LENGTH WITH 2x4 #2 SPF DIAG BRACE *		MAXIMUM 2x4 WEB LENGTH WITHOUT BRACING *		MAXIMUM 2x4 WEB LENGTH WITH 2x4 #2 SPF DIAG BRACE *		2x3 or 2x4 MAXIMUM WEB LENGTH WITH 2x4 "T" or "L" BRACE *	
	WEB SPACING		WEB SPACING		WEB SPACING		WEB SPACING		WEB SPACING	
	16" O.C.	24" O.C.	16" O.C.	24" O.C.	16" O.C.	24" O.C.	16" O.C.	24" O.C.	16" O.C.	24" O.C.
#3 or Stud SPF	4-7"	4'-0"	9'-2"	8'-0"	5'-2"	4'-6"	10'-4"	9'-0"	10'-5"	9'-1"
#1/#2 SPF or better	4-10"	4'-3"	9'-8"	8'-3"	5'-5"	4'-9"	10'-10"	9'-6"	11'-0"	9'-7"

\* ( sheathing plus vertical section [see section B detail] )



**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING. IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 150A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites:  
ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

MAX. TOT. LD. 60 PSF  
DUR. FAC. 1.15/1.25  
MAX SPACING 24"

REF	ASCE7-16-GA2X3C
DATE	01/02/2018
DRWG	GA2X316C0118