

CONVENTIONALLY FRAMED VALLEY DETAIL

- (A) 2X6 OR LARGER SP #2 OR SPF #1/#2 VALLEY RAFTER
- (B) 2X4 SP OR SPF #3 CRIPPLE (MAX HEIGHT 6'-3")
- (C) 2X4 SP OR SPF #3 CRIPPLE (MAX HEIGHT 6'-3")
- (D) 2X6 OR LARGER SP #2 OR SPF #1/#2 RIDGE RAFTER

NOTE: RIDGE RAFTER (D) MUST NOT BE OF LESS SIZE THAN THAT OF VALLEY RAFTER (A).

NOTE: REFER TO VALLEY DETAIL VALTRUSS0699 FOR SUPPORTING TRUSS BRACING DETAILS.

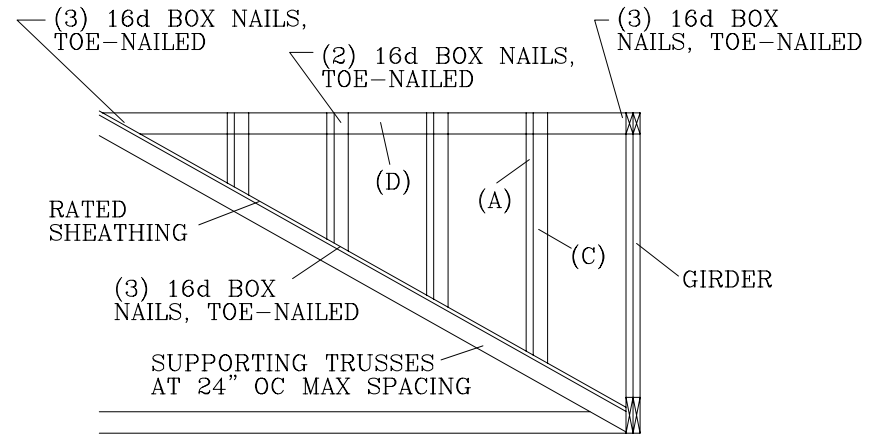
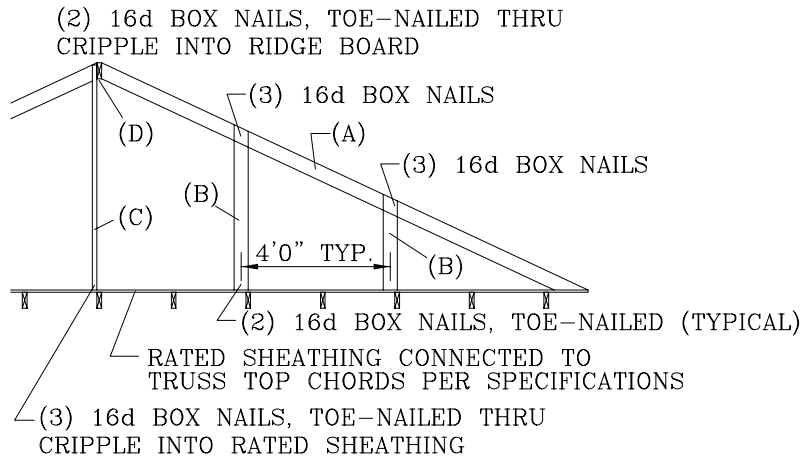
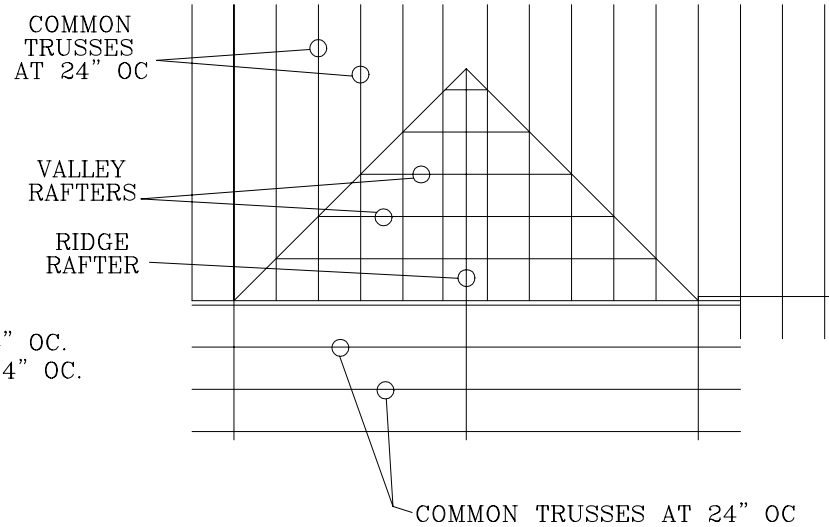
(B), (C) MAX HEIGHT WITH 1X4 "T" BRACE IS 9'-10".

(B), (C) MAX HEIGHT WITH 2X4 "T" BRACE IS 11'-2".

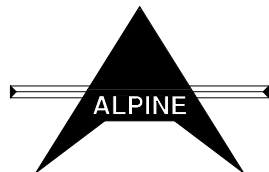
FOR 1X4 AND 2X4 "T" BRACING, BRACE TO BE SAME GRADE AS CRIPPLE.
 FASTEN 1X4 "T" BRACE TO CRIPPLE WITH 8d BOX (0.113" x 2.5") NAILS AT 4" OC.
 FASTEN 2X4 "T" BRACE TO CRIPPLE WITH 16d BOX (0.135" x 3.5") NAILS AT 4" OC.

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH PROPERLY ATTACHED RATED SHEATHING OR PURLINS AT 24" O.C. OR VALLEY SPACING AS SPECIFIED ON THE ENGINEER'S SEALED DESIGN FOR THE SUPPORTING TRUSS.

PARTIAL FRAMING PLAN



THIS DRAWING REPLACES DRAWING V105-CONV



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. ****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

TC LL	30	30	40	PSF	REF CONV. VALLEY
TC DL	20	15	7	PSF	DATE 06/25/99
BC DL	10	10	10	PSF	DRWG VALCONVF0699
BC LL	0	0	0	PSF	-ENG MLH/KAR
TOT.LD.	60	55	57	PSF	
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING	SEE ABOVE				

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
 BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
 WEBS 2X4 SP #3 OR BETTER.

- * 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).
- ** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:
 - (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR SBC OR ASCE 7-93, 110 MPH MAXIMUM WIND, 15' MEAN HEIGHT, 5 PSF MINIMUM TOP CHORD DEAD LOAD
 - OR
 - (2) SIMPSON H2.5 OR CONNECTION FOR 500# UPLIFT FOR SBC OR ASCE 7-93, 130 MPH MAXIMUM WIND, 30' MEAN HEIGHT, 5 PSF MINIMUM TOP CHORD DEAD LOAD.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

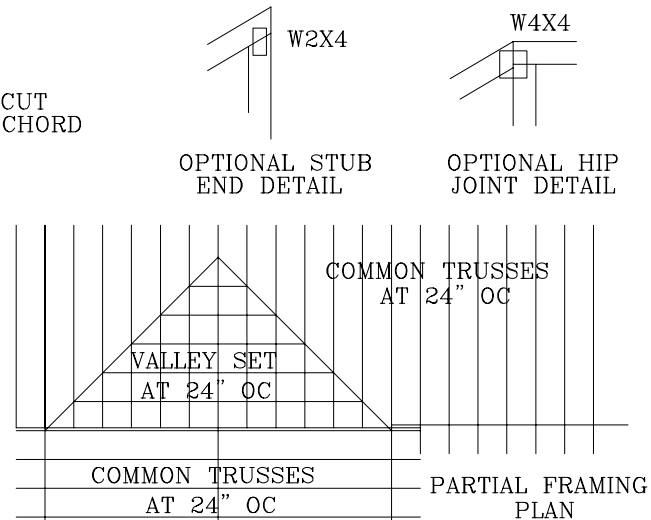
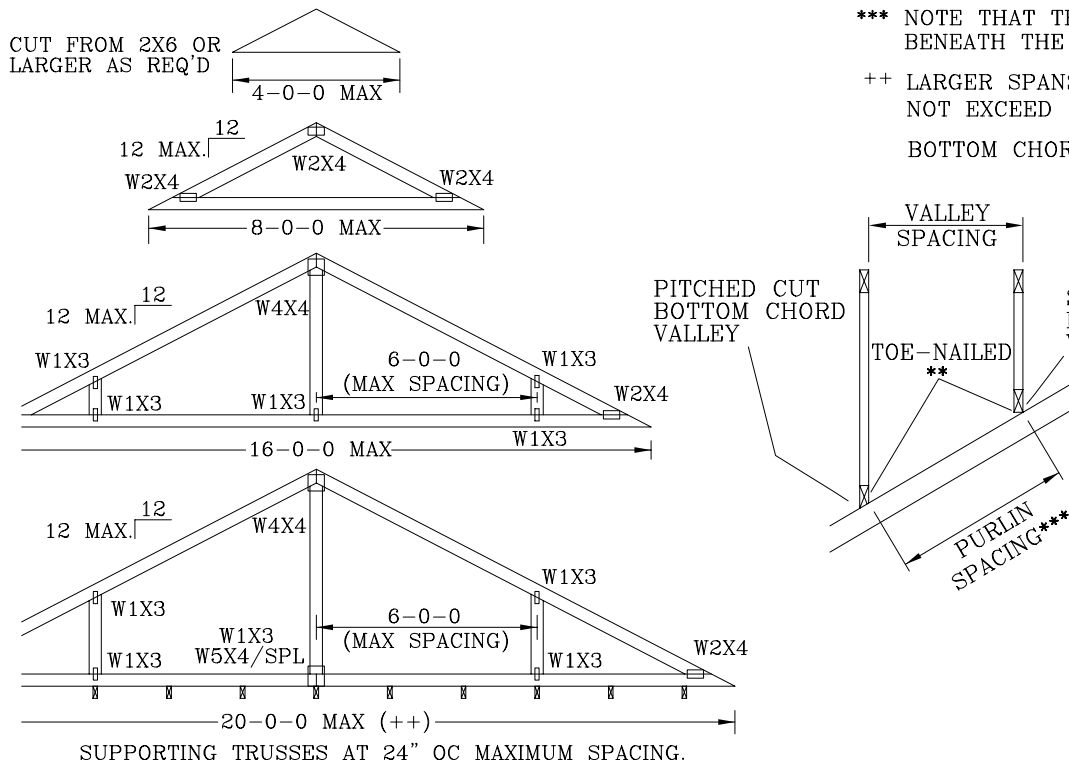
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH: PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
 OR
 PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
 OR
 BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

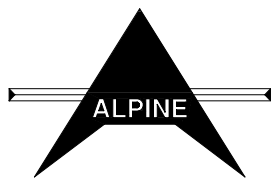
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



THIS DRAWING REPLACES DRAWING A105



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DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24"		