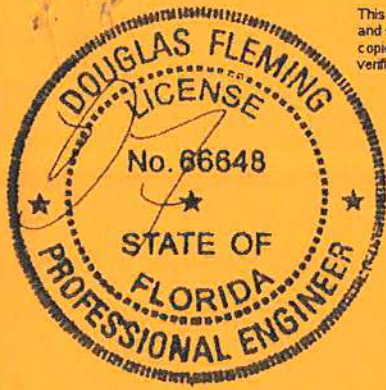


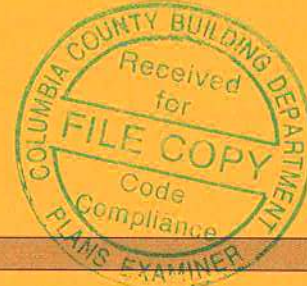


This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



COA #0 278
06/09/2020

Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com



Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B51038a
Job Description: -Pamela Jackson Res Erkinger Home Builders	
Address: 1155 Scrubtown Rd, Ft White, FL	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01A JRef #: 1WVZ8570002
Wind Standard: ASCE 7-16 Wind Speed (mph): 140	Roof Load (psf): 20.00- 7.00- 0.00-10.00
Building Type: Closed	Floor Load (psf): None

This package contains general notes pages, 29 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	161.20.1355.25810	CJ1
3	161.20.1358.53691	CJ6
5	161.20.1358.53551	EJ8A
7	161.20.1358.53707	GE2
9	161.20.1358.53505	H11B
11	161.20.1358.53535	H13B
13	161.20.1358.53832	H15B
15	161.20.1358.53738	H17B
17	161.20.1358.53754	H7A
19	161.20.1358.53816	H9A
21	161.20.1358.53924	HG3A
23	161.20.1358.53644	HJ5A
25	161.20.1358.53800	MHG1
27	161.20.1358.53660	T-2
29	161.20.1355.24383	T-4
31	PB180160118	
33	A14015ENC160118	
35	GBLLETIN0118	

Item	Drawing Number	Truss
2	161.20.1358.53598	CJ5
4	161.20.1358.53973	EJ8
6	161.20.1358.53566	GE1
8	161.20.1358.53769	H11A
10	161.20.1358.53846	H13A
12	161.20.1358.53629	H15A
14	161.20.1358.53785	H17A
16	161.20.1358.53520	H5A
18	161.20.1358.53940	H7B
20	161.20.1358.53676	H9B
22	161.20.1358.53613	HJ5
24	161.20.1358.53582	MH1
26	161.20.1358.53877	T-1
28	161.20.1358.53722	T-3
30	PB160160118	
32	REPCHRD1014	
34	CNNAILSP1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

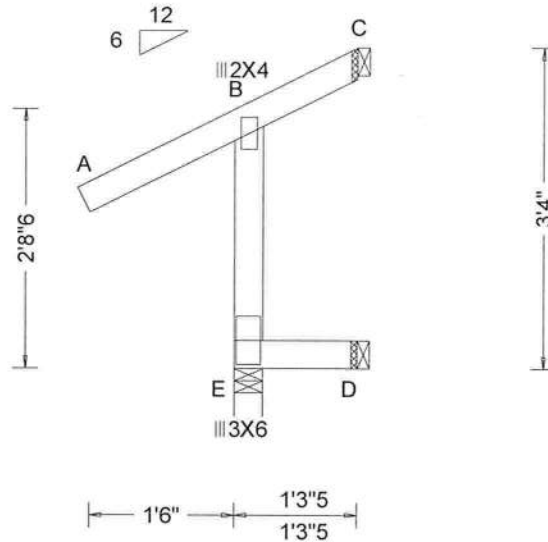
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.com.

SEQN: 13369 FROM: RNB	JACK Qty: 3	Ply: 1 Qty: 3	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: CJ1	Cust: R 857 JRef: 1WWZ8570002 T22 DrwNo: 161.20.1355.25810 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.001 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.229 Max BC CSI: 0.013 Max Web CSI: 0.272 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 200 /- /- /212 /154 /- D 26 /- /- /13 /- /39 C - /-22 /- /51 /76 /87 Wind reactions based on MWFRS E Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing E Fcperp = 425psi. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	38	-1.57	1.28
BC	15	0.00	1.28

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0248
06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

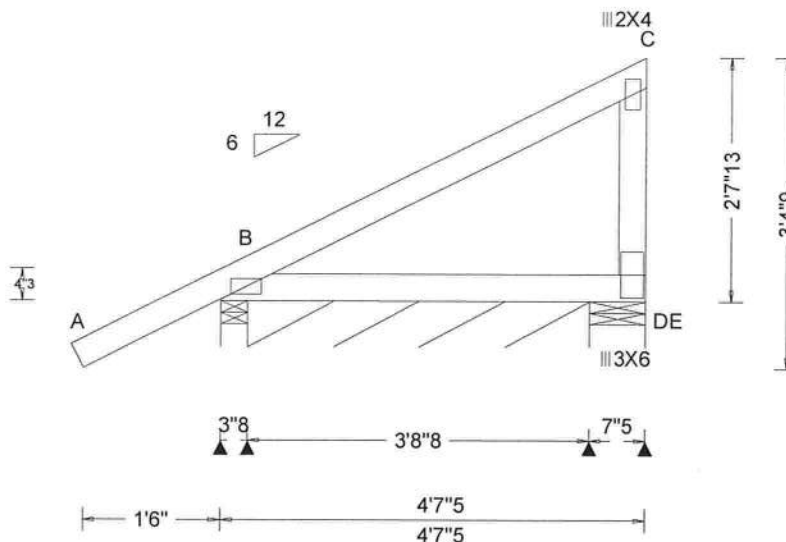
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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 and 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 these web sites: Alpine: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13365	JACK	Ply: 1	Job Number: B51038a	Cust: R 857 JRef: 1WVZ8570002 T2
FROM: RNB		Qty: 3	-Pamela Jackson Res Erkinger Home Builders	DrwNo: 161.20.1358.53598
			Truss Label: CJ5	SSB / DF 06/09/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	GravityNon-Gravity
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 249 /- /- /178 /134 /138
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 D - -	B* 30 /- /- /18 /10 /-
	EXP: C Kzt: NA		HORZ(TL): 0.002 D - -	E 113 /- /- /82 /75 /-
Des Ld: 37.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
NCBCLL: 10.00	TCDL: 0.0 psf	FBC 2017 RES	Max TC CSI: 0.370	B Brg Width = 3.5 Min Req = 1.5
Soffit: 2.00	BCDL: 0.0 psf	TPI Std: 2014	Max BC CSI: 0.161	B Brg Width = 44.5 Min Req = -
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.282	E Brg Width = 7.3 Min Req = 1.5
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/0(0)		Bearings B, B, & E Fcperp = 425psi.
	Loc. from endwall: Any	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 18.02.01A.0205.23	

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4(A1) except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-1.57	4.61
BC	54	0.15	4.61

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0298
06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

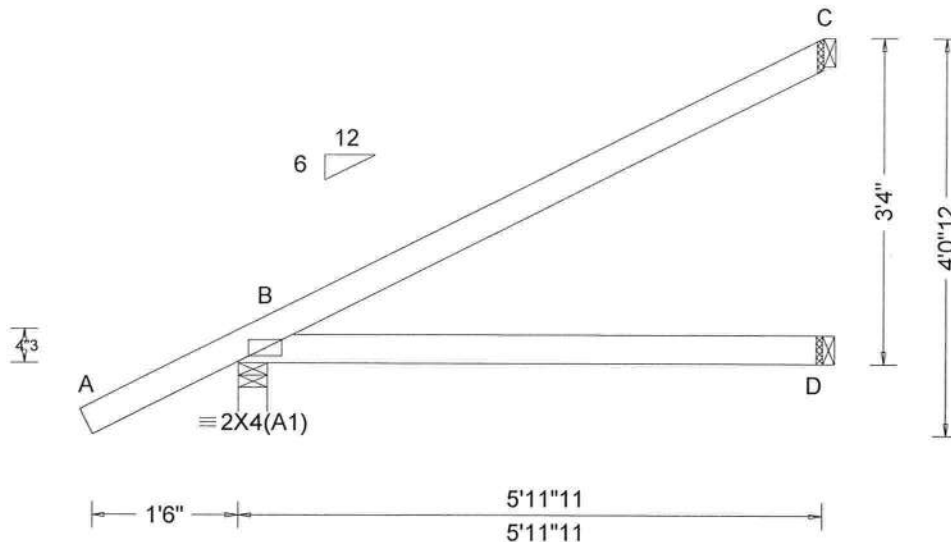
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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 these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/R-	/Rh	/Rw	/U	/RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	B	341	/-	/-	/243	/156	/148
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA	D	107	/-	/-	/58	/15	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	140	/-	/-	/87	/126	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.009 D - -	Wind reactions based on MWFRS						
	EXP: C Kzt: NA		HORZ(TL): 0.013 D - -	B	Brg Width = 3.5		Min Req = 1.5			
Des Ld: 37.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	D	Brg Width = 1.5		Min Req = -			
NCBCLL: 10.00	TCDL: 0.0 psf	FBC 2017 RES	Max TC CSI: 0.673	C	Brg Width = 1.5		Min Req = -			
Soffit: 2.00	BCDL: 0.0 psf	TPI Std: 2014	Max BC CSI: 0.282	Bearing B Fcperp = 425psi.						
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000	Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/0(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.01A.0205.23							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

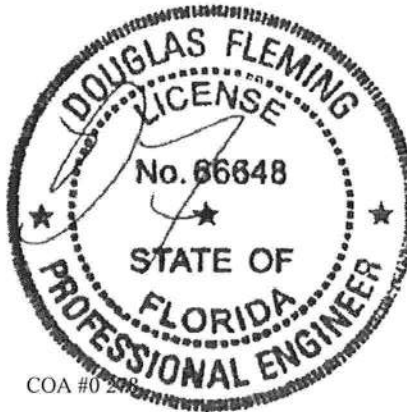
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-1.57	5.97
BC	70	0.15	5.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

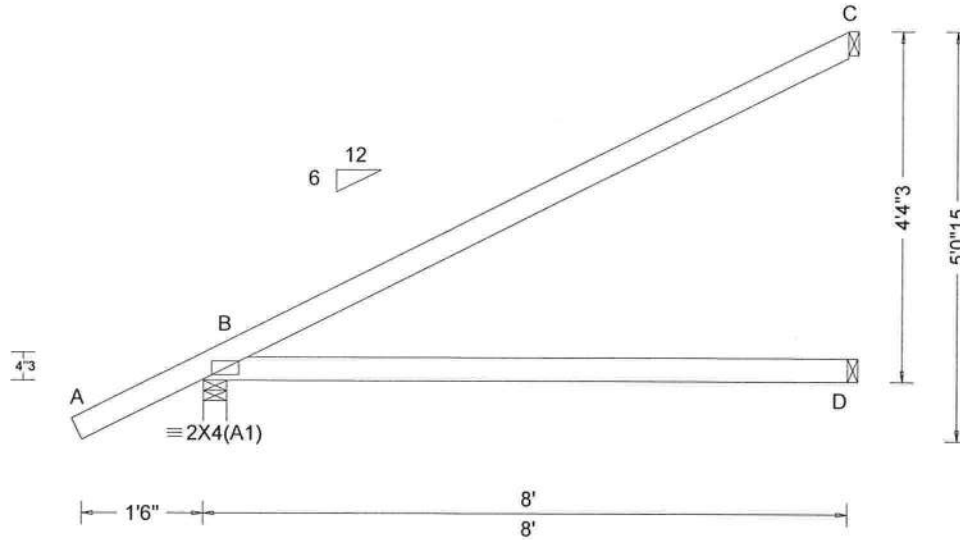
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 13377 / FROM: RNB	EJAC Qty: 23	Ply: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: EJ8	Cust: R 857 JRef: 1WVZ8570002 T23 DrwNo: 161.20.1358.53973 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
					Gravity			Non-Gravity				
					Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc L/defl	L/#	B	413	/-	/-	/287	/184	/190
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL):	NA		D	145	/-	/-	/82	/23	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	NA		C	194	/-	/-	/122	/173	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	-0.025 D	- -	Wind reactions based on MWFRS						
	EXP: C Kzt: NA		HORZ(TL):	0.035 D	- -	B	Brg Width = 3.5			Min Req = 1.5		
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor:	2.0		D	Brg Width = 1.5			Min Req = -		
NCBCLL: 10.00	TCDL: 0.0 psf	Building Code:	Max TC CSI:	0.849		C	Brg Width = 1.5			Min Req = -		
Soffit: 2.00	BCDL: 0.0 psf	FBC 2017 RES	Max BC CSI:	0.478		Bearing B Fcperp = 425psi.						
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI:	0.000		Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	VIEW Ver: 18.02.01A.0205.23									
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)										
	GCpi: 0.18	Plate Type(s):										
	Wind Duration: 1.60	WAVE										

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-1.57	8.00
BC	75	0.15	8.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



COA #028

06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

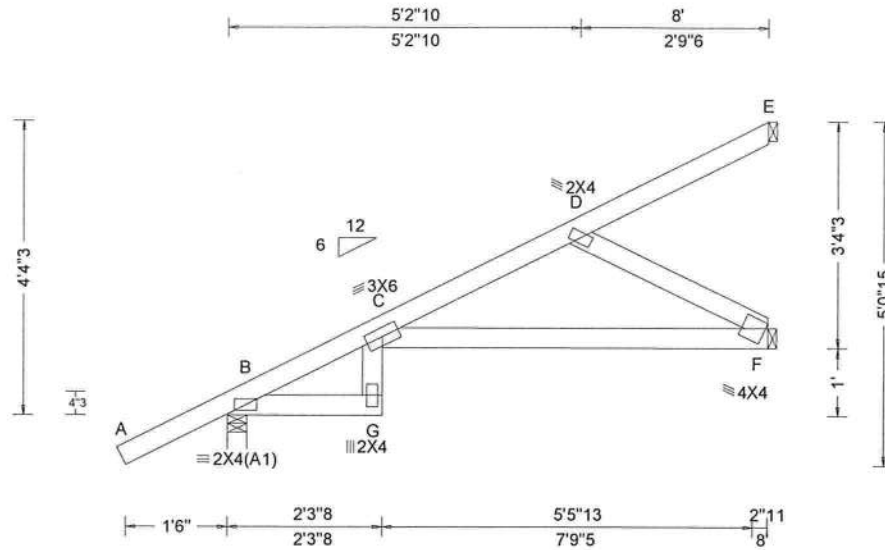
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinet.org; SBCE: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13371 / FROM: RNB	EJAC Qty: 7	Ply: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: EJ8A	Cust: R 857 JRef: 1WVZ8570002 T25 DrwNo: 161.20.1358.53551 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.151 G 625 360 VERT(CL): 0.212 G 445 240 HORZ(LL): -0.088 F - - HORZ(TL): 0.123 F - - Creep Factor: 2.0 Max TC CSI: 0.671 Max BC CSI: 0.300 Max Web CSI: 0.189 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 408 /- /- /283 /181 /190 F 254 /- /- /185 /161 /- E 38 /- /- /23 /38 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

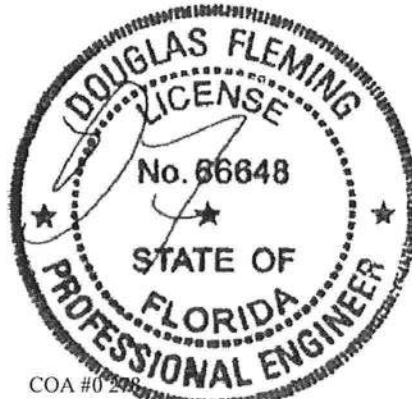
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-1.57	8.00
BC	24	0.15	2.15
BC	67	2.23	7.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

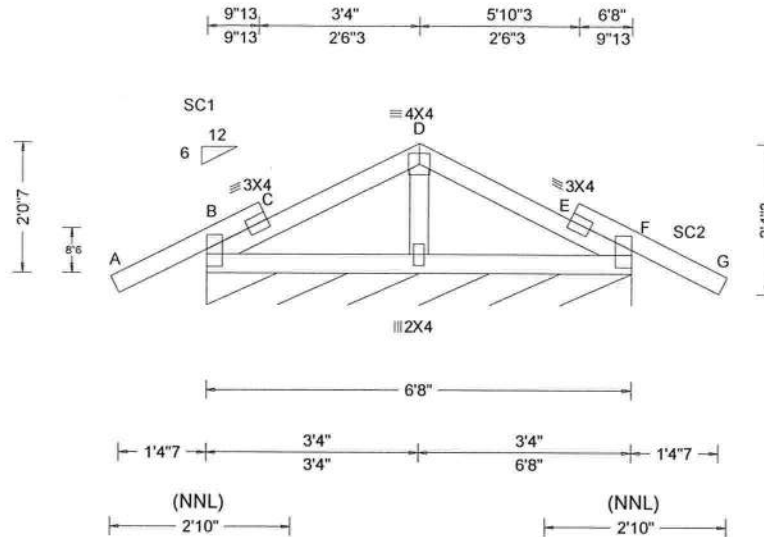
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13416 / FROM: RNB	GABL Qty: 1	Ply: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: GE1	Cust: R 857 JRef: 1WVZ8570002 T27 DrwNo: 161.20.1358.53566 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.011 C 999 360 VERT(CL): 0.011 C 999 240 HORZ(LL): 0.005 C - - HORZ(TL): 0.005 C - - Creep Factor: 2.0 Max TC CSI: 0.369 Max BC CSI: 0.155 Max Web CSI: 0.055 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F* 132 /- /- /56 /48 /9 Wind reactions based on MWFRS F Brg Width = 80.0 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. E - F 588 - 651

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes

All plates are 3X6(E5) except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	30	-1.43	0.95
TC	44	0.00	3.33
TC	44	3.33	6.67
TC	30	5.72	8.10
BC	75	0.00	6.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

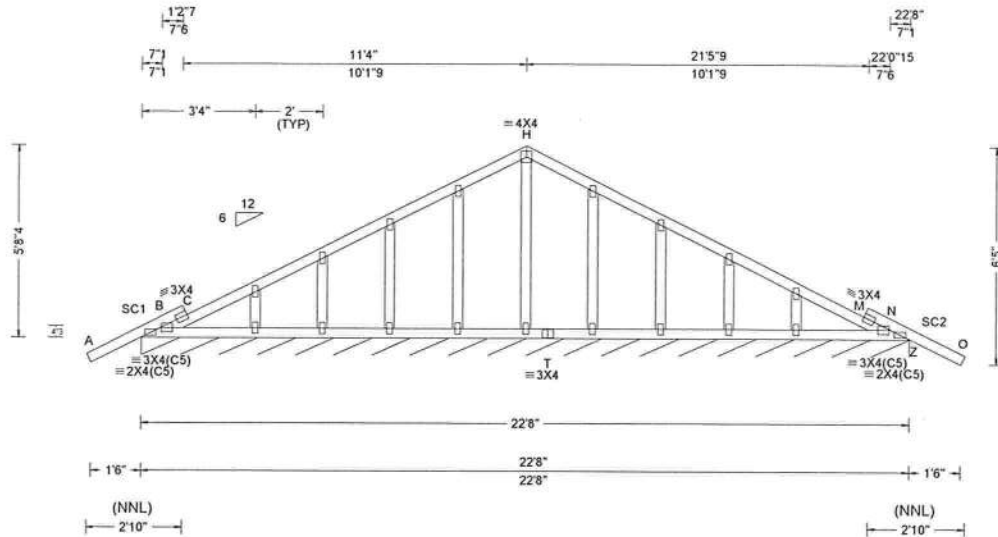
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13427 / FROM: RNB	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: GE2	Cust: R 857 JRef: 1WVZ8570002 T12 DrwNo: 161.20.1358.53707 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.006 M 999 360 VERT(CL): 0.006 M 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.002 E - - Creep Factor: 2.0 Max TC CSI: 0.258 Max BC CSI: 0.067 Max Web CSI: 0.077 VIEW Ver: 18.02.01A.0205.23	Gravity Loc R+ / R- / Rh / Rw / U / RL Z* 118 /- /- /46 /7 /3 Wind reactions based on MWFRS Z Brg Width = 271 Min Req = - Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	37	-1.57	1.33
TC	75	0.29	11.33
TC	75	11.33	22.37
TC	37	21.33	24.23
BC	75	0.29	22.37

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



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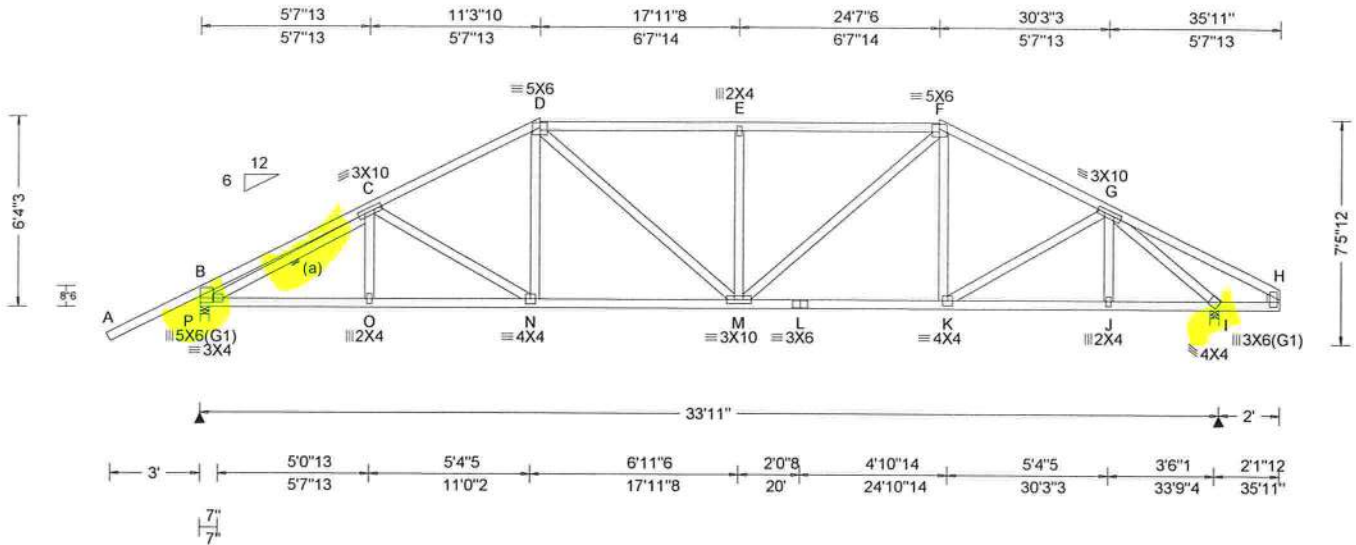
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13469 / FROM: RNB	HIPS Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H11A	Cust: R 857 JRef: 1WVZ8570002 T6 DrwNo: 161.20.1358.53769 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.097 E 999 360 VERT(CL): 0.180 E 999 240 HORZ(LL): 0.041 I - - HORZ(TL): 0.077 I - - Creep Factor: 2.0 Max TC CSI: 0.982 Max BC CSI: 0.667 Max Web CSI: 0.839 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 1468 -/- /- /893 /621 /232 I 1437 -/- /- /801 /611 -/ Wind reactions based on MWFRS P Brg Width = 3.5 Min Req = 1.8 I Brg Width = 3.5 Min Req = 1.8 Bearings P & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 394 -663 E - F 1680 -1837 C - D 1577 -1868 F - G 1422 -1671 D - E 1680 -1837

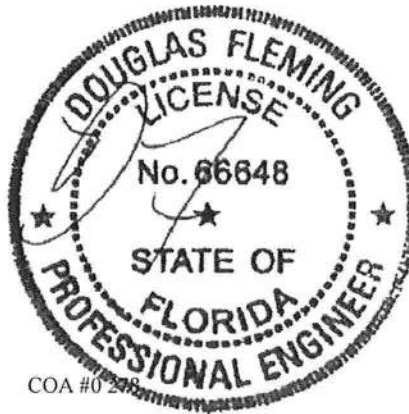
Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3; Rt Stub Wedge: 2x4 SP #3;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 54 -3.07 11.30
TC 24 11.30 24.62
TC 55 24.62 35.92
BC 75 0.00 35.92
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right cantilever is not exposed to wind
Wind loading based on both gable and hip roof types.



COA #0 28
06/09/2020

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	831 -690	M - L	1438 -1231
P - O	1821 -1775	L - K	1438 -1231
O - N	1823 -1694	K - J	1255 -1024
N - M	1607 -1458	J - I	1253 -973

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
P - C	1378 -1505	E - M	540 -423
D - M	307 -386	G - I	1435 -1845
M - F	539 -550		

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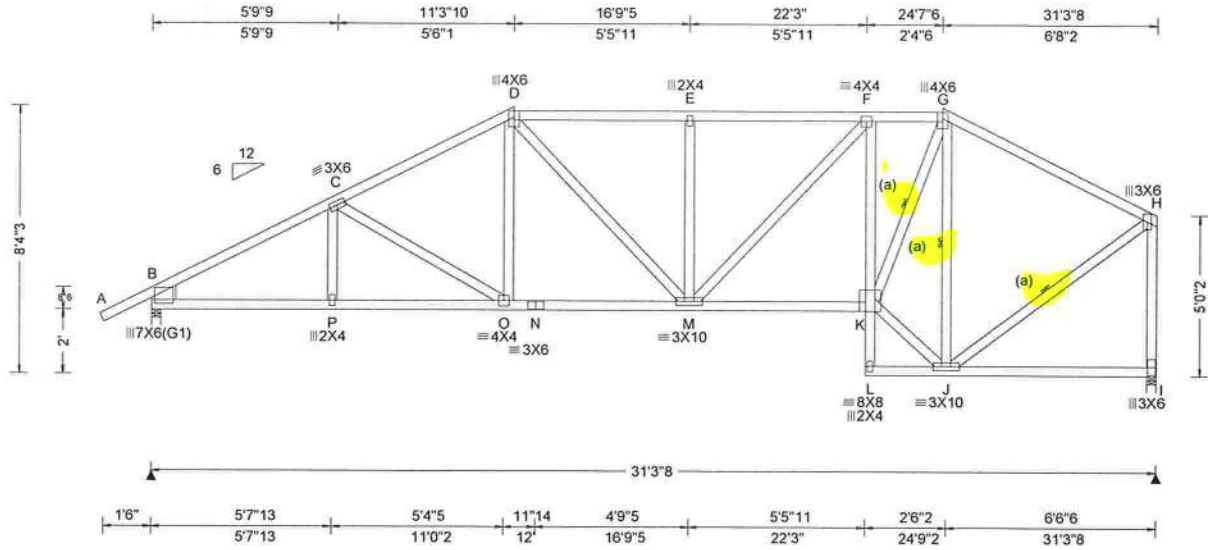
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13455 / FROM: RNB	HIPS Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H11B	Cust: R 857 JRef: 1WVZ8570002 T14 DrwNo: 161.20.1358.53505 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.096 E 999 360 VERT(CL): 0.179 E 999 240 HORZ(LL): -0.055 I - - HORZ(TL): 0.100 J - - Max TC CSI: 0.994 Max BC CSI: 0.980 Max Web CSI: 0.948 VIEW Ver: 18.02.01A.0205.23	Gravity Loc R+ / R- / Rh / Rw Non-Gravity / U / RL B 1280 /- /- /759 /548 /319 I 1181 /- /- /600 /520 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 I Brg Width = 3.5 Min Req = 1.5 Bearings B & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B - C 1557 - 2010 E - F 1559 - 1586 C - D 1504 - 1696 F - G 1319 - 1336 D - E 1561 - 1588 G - H 875 - 964

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	47	-1.57	11.30
TC	24	11.30	24.62
TC	68	24.62	31.29
BC	79	0.00	22.35
BC	107	22.40	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical exposed to wind pressure.
Deflection meets L/180.

Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	1712 - 1794	N - M	1450 - 1435
P - O	1710 - 1713	M - K	1352 - 1349
O - N	1450 - 1435		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
E - M	472 - 343	G - J	1246 - 1200
F - K	529 - 438	J - H	990 - 871
K - G	1390 - 1429	H - I	977 - 1129
K - J	1114 - 1086		

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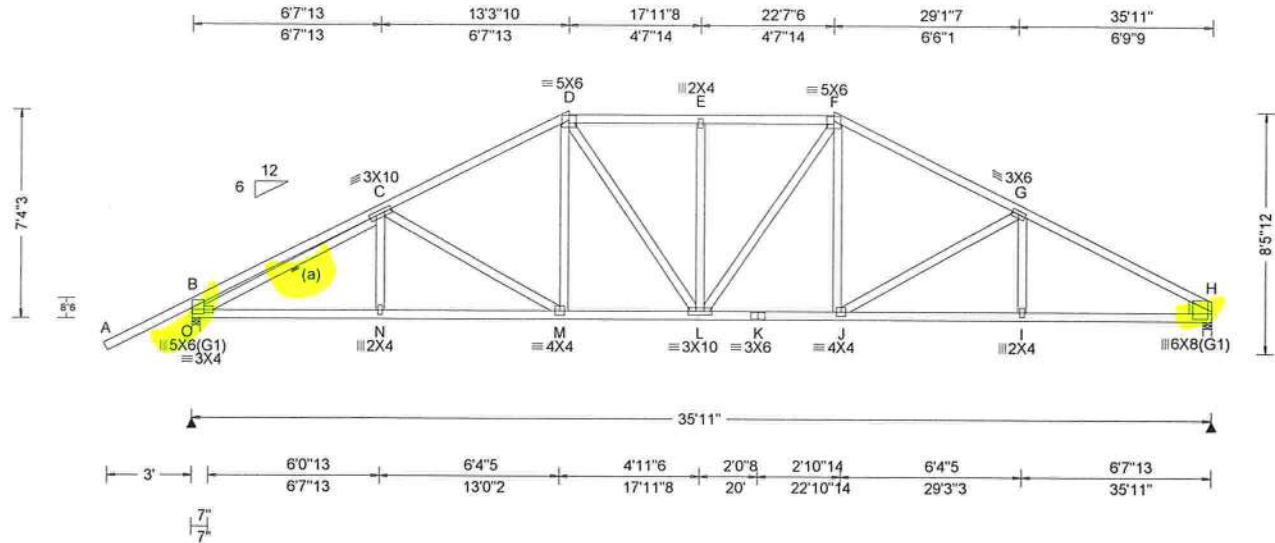
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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinet.org; SBCEA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13466 / FROM: RNB	HIPS Qty: 1	Ply: 1 Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H13A	Cust: R 857 JRef: 1VVZ8570002 T7 DrwNo: 161.20.1358.53846 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.119 E 999 360 VERT(CL): 0.222 E 999 240 HORZ(LL): 0.055 I - - HORZ(TL): 0.101 I - - Creep Factor: 2.0 Max TC CSI: 0.965 Max BC CSI: 0.974 Max Web CSI: 0.968 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1551 /- /- /934 /619 /263 H 1351 /- /- /760 /541 /- Wind reactions based on MWFRS O Brg Width = 3.5 Min Req = 1.9 H Brg Width = 3.5 Min Req = 1.7 Bearings O & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 410 -813 E - F 1532 -1758 C - D 1527 -1920 F - G 1522 -1930 D - E 1532 -1758 G - H 1717 -2359

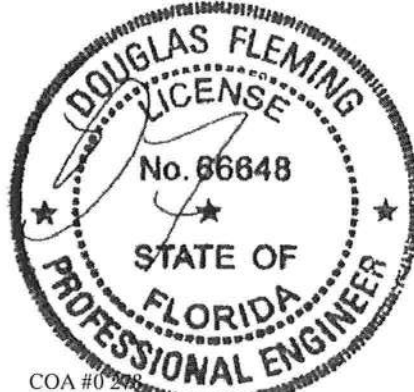
Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3; Rt Stub Wedge: 2x6 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 50 -3.07 13.30
TC 24 13.30 22.62
TC 42 22.62 35.92
BC 83 0.00 35.92
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



COA #0 2019
06/09/2020

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O	835 -660	L - K	1645 -1333
O - N	1976 -1847	K - J	1645 -1333
N - M	1978 -1752	J - I	2016 -1528
M - L	1635 -1405	I - H	2019 -1466

Maximum Web Forces Per Ply (lbs)	Webs	Tens.Comp.	Webs	Tens. Comp.
O - C	1355	-1529	F - J	391 -232
C - M	390	-380	J - G	437 -416
M - D	383	-207		

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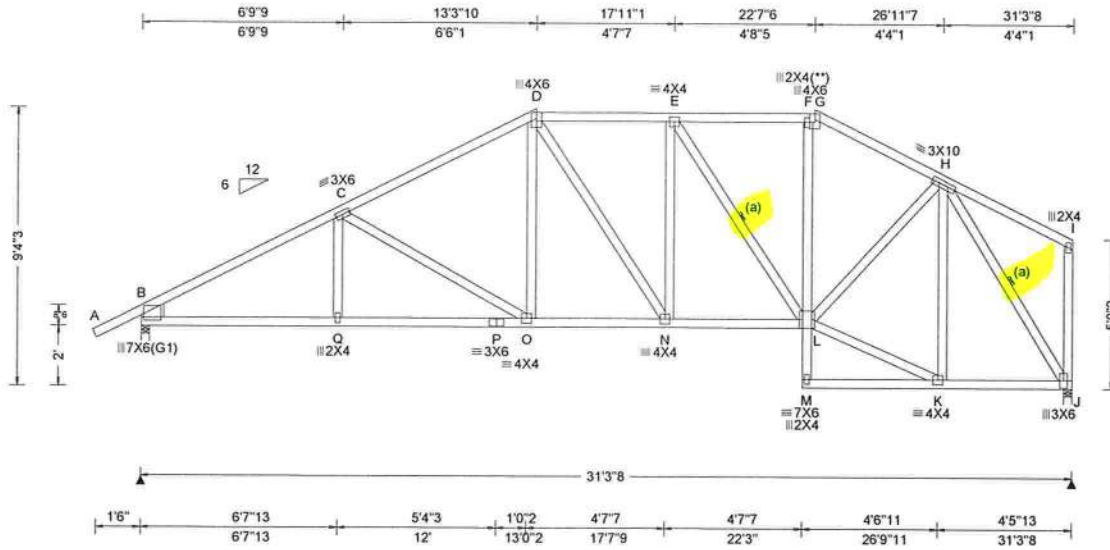
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13458 / FROM: RNB	HIPS Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H13B	Cust: R 857 JRef: 1VVZ8570002 T16 DrwNo: 161.20.1358.53535 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.079 O 999 360 VERT(CL): 0.147 O 999 240 HORZ(LL): 0.043 J - - HORZ(TL): 0.081 J - - Max TC CSI: 0.985 Max BC CSI: 0.955 Max Web CSI: 0.937 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1280 /- /- /766 /520 /349 J 1181 /- /- /607 /482 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 J Brg Width = 3.5 Min Req = 1.5 Bearings B & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1469 -2008 E - F 1061 -1109 C - D 1333 -1567 F - G 922 -961 D - E 1285 -1329 G - H 1122 -1280

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

Plating Notes
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	46	-1.57	13.30
TC	24	13.30	22.62
TC	66	22.62	31.29
BC	81	0.00	22.40
BC	107	22.40	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical exposed to wind pressure.
Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0208
06/09/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

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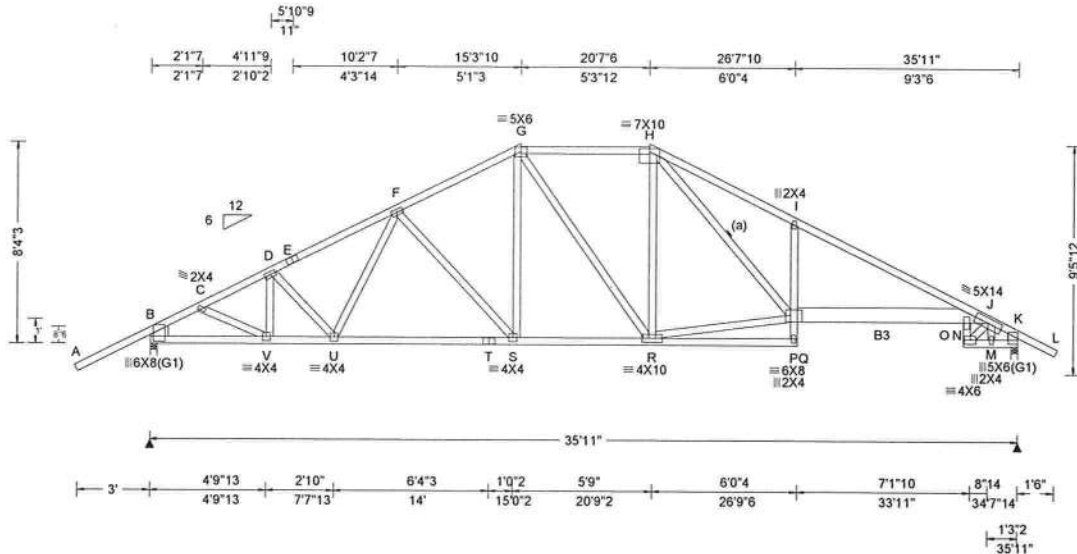
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13413 / FROM: RNB	HIPS Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H15A	Cust: R 857 JRef: 1WVZ8570002 T8 DrwNo: 161.20.1358.53629 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCCL: 20.00 TCDL: 7.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.221 I 999 360 VERT(CL): 0.408 I 999 240 HORZ(LL): 0.137 M - - HORZ(TL): 0.253 M - - Creep Factor: 2.0 Max TC CSI: 0.978 Max BC CSI: 0.983 Max Web CSI: 0.930 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1549 /- /- /937 /543 /312 K 1447 /- /- /852 /503 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.9 K Brg Width = 3.5 Min Req = 1.8 Bearings B & K Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1277 - 2049 G - H 1235 - 1497 C - D 1462 - 2173 H - I 2002 - 2811 D - E 1557 - 2170 I - J 1844 - 2852 E - F 1557 - 2146 J - K 1132 - 1709 F - G 1334 - 1743

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1; B3 2x8 SP SS Dense;
 Webs: 2x4 SP #3;
 Lt Stub Wedge: 2x6 SP #1; Rt Stub Wedge: 2x4 SP #3;

Bracing
 (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
 All plates are 3X6 except as noted.
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	39	-3.07	15.30
TC	24	15.30	20.62
BC	91	0.00	26.64
BC	97	26.65	34.72
BC	28	33.63	35.92

 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Additional Notes
 Top chord overhangs have been checked only for loads as indicated. Overhangs not checked for man loads or long-term deflection.



06/09/2020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - V	1668 - 1293	P - N	2473 - 1482
V - U	1950 - 1324	O - M	1462 - 961
U - T	1785 - 1137	N - J	2363 - 1420
T - S	1785 - 1137	M - K	1448 - 950
S - R	1492 - 876		

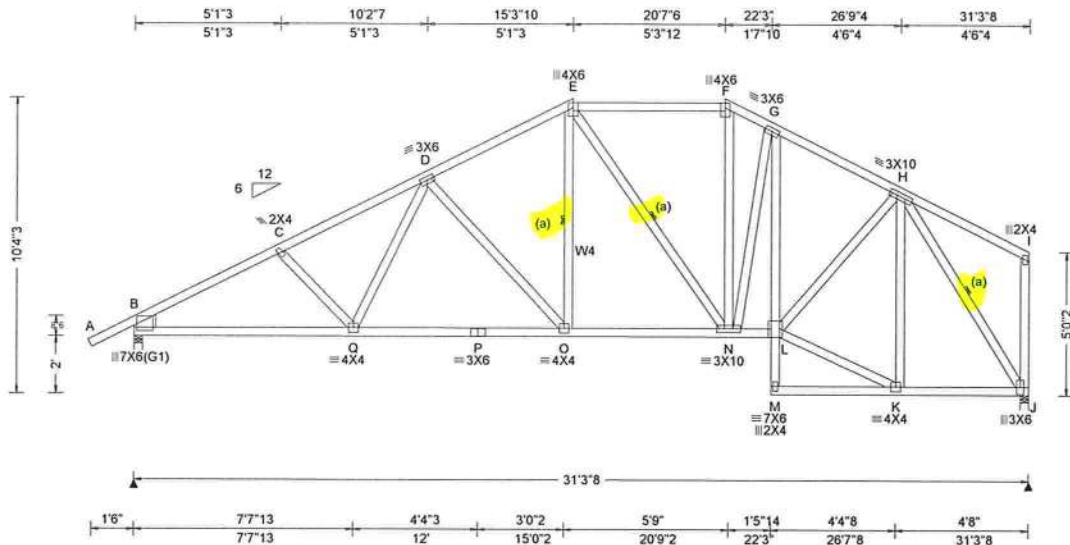
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - S	376 - 414	P - I	410 - 412
S - G	468 - 279	O - N	1599 - 1047
H - P	1437 - 967	O - J	1451 - 2206
R - P	1486 - 833	J - M	350 - 470

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ALPINE
 AN ITW COMPANY
 13723 Riverport Drive
 Suite 200
 Maryland Heights, MO 63043

SEQN: 13461 / FROM: RNB	HIPS Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H15B	Cust: R 857 JRef: 1VVZ8570002 T15 DrwNo: 161.20.1358.53832 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.078 D 999 360 VERT(CL): 0.145 D 999 240 HORZ(LL): 0.041 J - - HORZ(TL): 0.077 J - - Creep Factor: 2.0 Max TC CSI: 0.982 Max BC CSI: 0.990 Max Web CSI: 0.996 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1280 - / - / /767 /491 /379 J 1181 - / - / /610 /410 - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 J Brg Width = 3.5 Min Req = 1.5 Bearings B & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1455 -2023 E - F 1068 - 1051 C - D 1403 -1847 F - G 1145 - 1174 D - E 1165 -1395 G - H 1126 - 1273

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W4 2x4 SP #1;
Lt Stub Wedge: 2x6 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	46	-1.57	15.30
TC	24	15.30	20.62
TC	65	20.62	31.29
BC	82	0.00	22.38
BC	107	22.40	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical exposed to wind pressure.
Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0 2

06/09/2020

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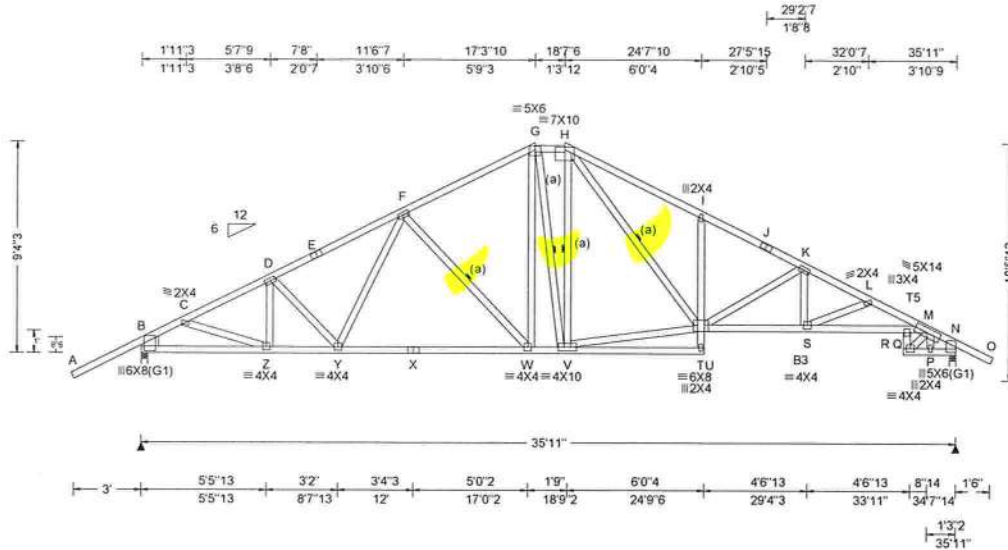
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13401 / FROM: RNB	HIPS Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H17A	Cust: R 857 JRef: 1WV28570002 T9 DrwNo: 161.20.1358.53785 SSB / DF 06/09/2020
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity Non-Gravity						
TCDL: 7.00		Speed: 140 mph		Pf: NA Ce: NA		VERT(LL): 0.273 R 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.504 R 854 240		B	1549	/-	/-	/936	/536	/342
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.178 P - -		N	1447	/-	/-	/850	/498	/-
Des Ld: 37.00		EXP: C Kzt: NA		Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE		HORZ(TL): 0.328 P - -		Wind reactions based on MWFRS						
NCBCLL: 10.00		Mean Height: 15.00 ft				Creep Factor: 2.0		B Brg Width = 3.5 Min Req = 1.9						
Soffit: 2.00		TCDL: 0.0 psf				Max TC CSI: 0.987		N Brg Width = 3.5 Min Req = 1.8						
Load Duration: 1.25		BCDL: 0.0 psf				Max BC CSI: 0.990		Bearings B & N Fcperp = 425psi.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h				Max Web CSI: 0.945		Members not listed have forces less than 375#						
		C&C Dist a: 3.59 ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 9.00 ft						Chords Tens.Comp. Chords Tens. Comp.						
		GCpi: 0.18												
		Wind Duration: 1.60				VIEW Ver: 18.02.01A.0205.23		B - C 1167 -2039 H - I 1684 -2462						

Lumber

Top chord: 2x4 SP #1; T5 2x4 SP SS Dense;
Bot chord: 2x4 SP #1; B3 2x4 SP SS Dense;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #1; Rt Stub Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

All plates are 3X6 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	39	-3.07	17.30
TC	24	17.30	18.62
TC	34	18.62	37.48
BC	90	0.00	24.64
BC	75	24.65	34.72
BC	28	33.63	35.92

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



COA #0 2
06/09/2020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Z	1650 -1232	T - S	2773 -1527
Z - Y	1962 -1237	S - Q	3268 -1846
Y - X	1715 -976	R - P	776 -444
X - W	1715 -976	Q - M	3346 -1889
W - V	1357 -657	P - N	770 -439

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Y - F	383 -218	T - K	429 -706
F - W	459 -510	K - S	501 -241
W - G	493 -329	S - L	357 -532
H - T	1289 -831	R - Q	839 -476
V - T	1312 -626	R - M	664 -1161

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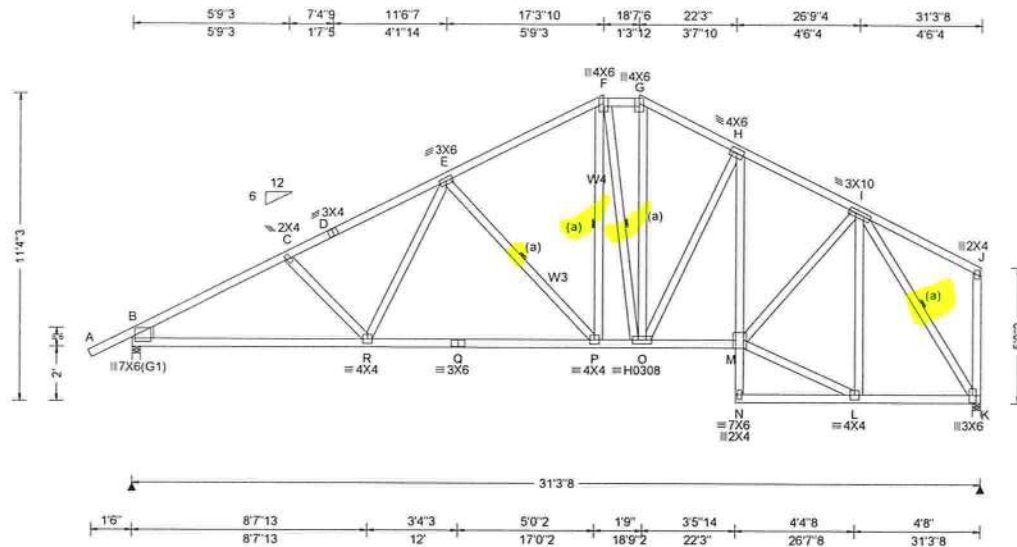
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AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13464 / FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H17B	Cust: R 857 JRef: 1WV28570002 T13 DrwNo: 161.20.1358.53738 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.078 E 999 360 VERT(CL): 0.146 E 999 240 HORZ(LL): 0.041 K - - HORZ(TL): 0.076 K - - Creep Factor: 2.0 Max TC CSI: 0.995 Max BC CSI: 0.995 Max Web CSI: 0.984 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1280 /- /- /764 /459 /409 K 1181 /- /- /607 /410 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 K Brg Width = 3.5 Min Req = 1.5 Bearings B & K Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1377 -2017 F - G 988 -996 C - D 1313 -1810 G - H 1064 -1160 D - E 1313 -1768 H - I 1045 -1274 E - F 1007 -1250

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W3 2x4 SP #1;
W4 2x4 SP SS Dense;
Lt Stub Wedge: 2x6 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	47	-1.57	17.30
TC	24	17.30	18.62
TC	65	18.62	31.29
BC	85	0.00	22.38
BC	107	22.40	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical exposed to wind pressure.
Deflection meets L/180.

Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - R	1718 -1902	P - O	1034 -912
R - Q	1416 -1662	O - M	1089 -933
Q - P	1416 -1662	L - K	672 -589

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R - E	417 -177	M - L	740 -645
E - P	637 -543	M - I	614 -512
P - F	544 -397	I - K	944 -1242
G - O	378 -394		

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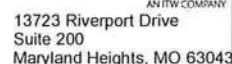
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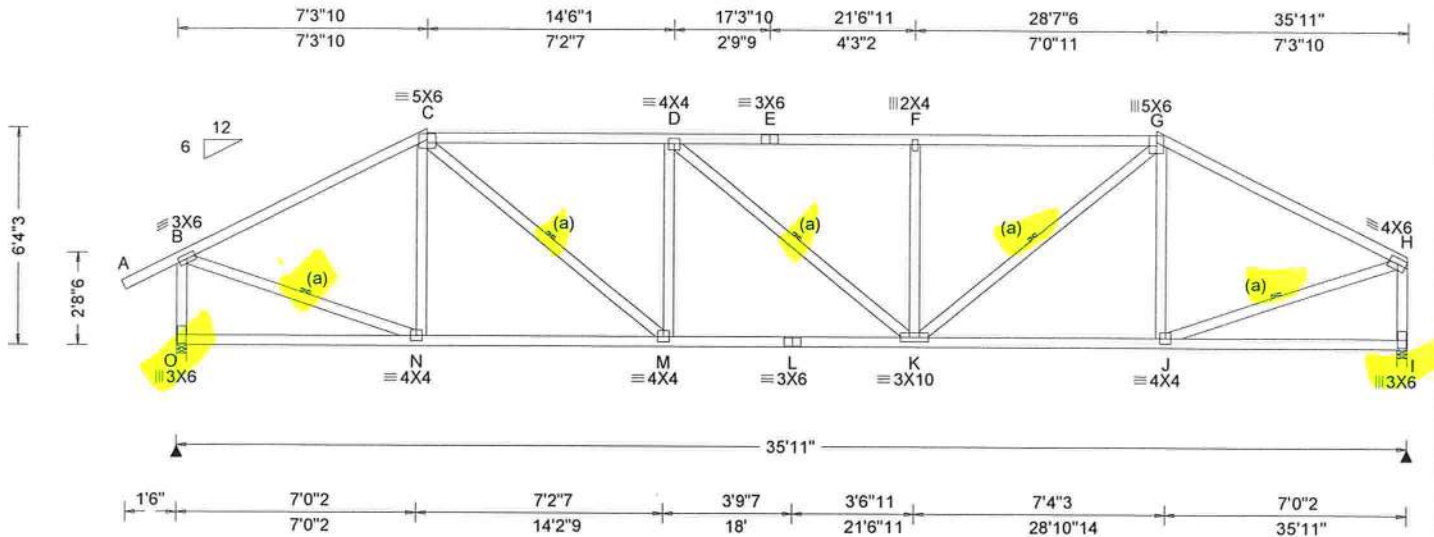
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13723 Riverport Drive
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Maryland Heights, MO 63043



SEQN: 13451 / FROM: RNB	HIPS Qty: 1	Ply: 1 Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H7A	Cust: R 857 JRef:1WVZ8570002 T4 DrwNo: 161.20.1358.53754 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.111 F 999 360 VERT(CL): 0.199 F 999 240 HORZ(LL): -0.032 C - - HORZ(TL): 0.056 C - - Creep Factor: 2.0 Max TC CSI: 0.970 Max BC CSI: 0.959 Max Web CSI: 0.861 VIEW Ver: 18.02.01A.0205.23	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1455 /- /- /799 /785 /244 I 1357 /- /- /714 /734 /- Wind reactions based on MWFRS O Brg Width = 3.5 Min Req = 1.8 I Brg Width = 3.5 Min Req = 1.7 Bearings O & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1368 -1587 E - F 1933 -2024 C - D 1926 -2009 F - G 1935 -2026 D - E 1933 -2024 G - H 1356 -1594 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 1366 -1275 L - K 2027 -1869 M - L 2027 -1869 K - J 1375 -1199 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - O 1227 -1396 K - G 850 -841 B - N 1403 -1138 G - J 384 -297 C - M 848 -829 J - H 1408 -1186 M - D 543 -412 H - I 1105 -1298 F - K 521 -402

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	53	-1.57	7.30
TC	24	7.30	28.62
TC	50	28.62	35.92
BC	74	0.00	35.92

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



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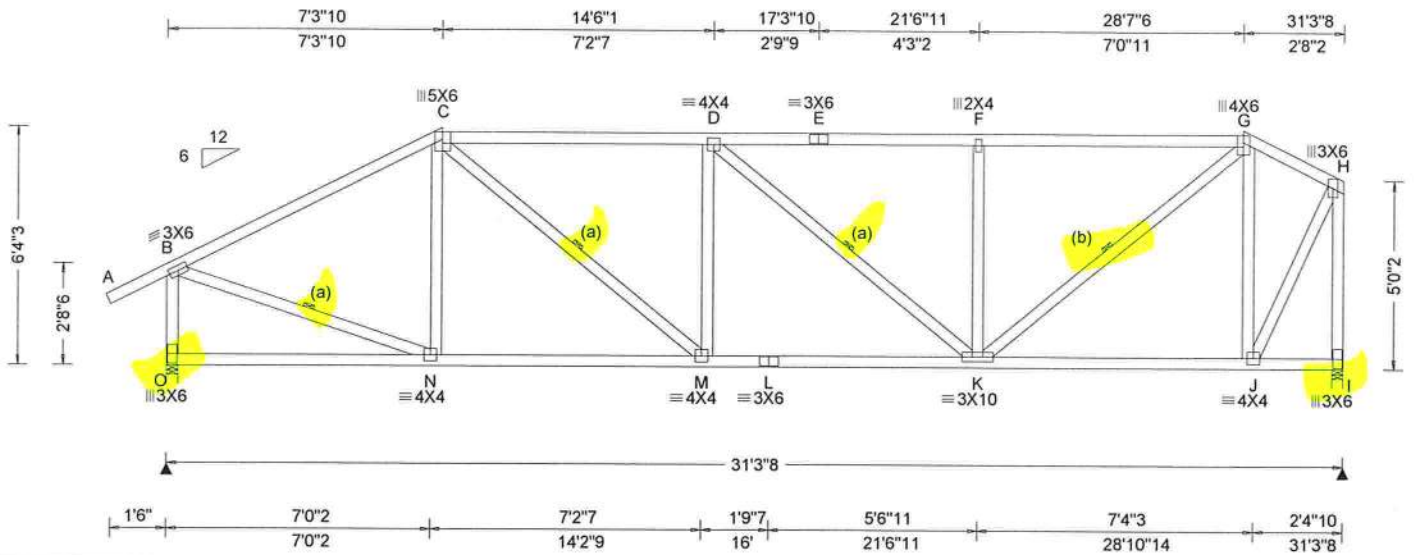
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Maryland Heights, MO 63043

SEQN: 13447 / FROM: RNB	HIPS Qty: 1	Ply: 1 Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H7B	Cust: R 857 JRef: 1WV28570002 T31 DrwNo: 161.20.1358.53940 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.075 D 999 360 VERT(CL): 0.136 D 999 240 HORZ(LL): -0.025 C - - HORZ(TL): 0.037 C - - Creep Factor: 2.0 Max TC CSI: 0.985 Max BC CSI: 0.959 Max Web CSI: 0.992 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1280 /- /- /716 /688 /281 I 1181 /- /- /560 /641 /- Wind reactions based on MWFRS O Brg Width = 3.5 Min Req = 1.6 I Brg Width = 3.5 Min Req = 1.5 Bearings O & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1181 - 1354 E - F 1465 - 1395 C - D 1627 - 1588 F - G 1467 - 1397 D - E 1465 - 1395 G - H 598 - 536 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. O - N 206 - 408 L - K 1598 - 1702 N - M 1153 - 1283 K - J 515 - 592 M - L 1598 - 1702 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - O 1121 - 1221 K - G 1153 - 1170 B - N 1183 - 1006 G - J 924 - 815 C - M 573 - 634 J - H 1049 - 1035 M - D 415 - 234 H - I 1118 - 1185 F - K 575 - 423

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	59	-1.57	7.30
TC	24	7.30	28.62
TC	36	28.62	31.29
BC	79	0.00	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0 2018

06/09/2020

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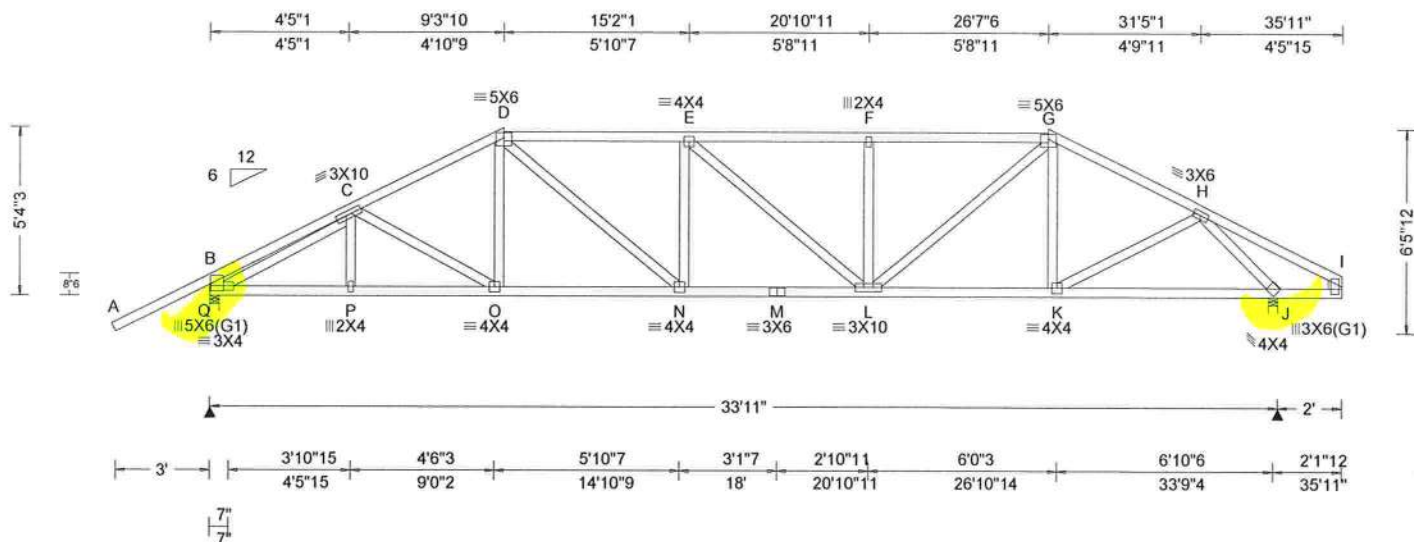
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.116 E 999 360 VERT(CL): 0.216 E 999 240 HORZ(LL): 0.043 J - - HORZ(TL): 0.080 J - - Creep Factor: 2.0 Max TC CSI: 0.985 Max BC CSI: 0.958 Max Web CSI: 0.920 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1468 -/- /- /881 /651 /201 J 1437 -/- /- /788 /644 -/- Wind reactions based on MWFRS Q Brg Width = 3.5 Min Req = 1.8 J Brg Width = 3.5 Min Req = 1.8 Bearings Q & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 393 -534 E - F 2050 -2078 C - D 1688 -1974 F - G 2052 -2080 D - E 2035 -2156 G - H 1488 -1669

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3; Rt Stub Wedge: 2x4 SP #3;

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

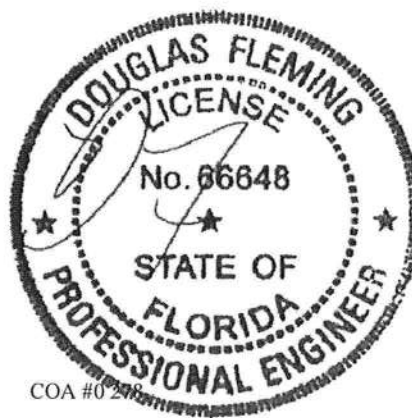
Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	53	-3.07	9.30
TC	24	9.30	26.62
TC	57	26.62	35.92
BC	75	0.00	35.92

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right cantilever is not exposed to wind
Wind loading based on both gable and hip roof types.

Additional Notes
Top chord overhangs have been checked only for loads as indicated. Overhangs not checked for man loads or long-term deflection.



COA #02
06/09/2020

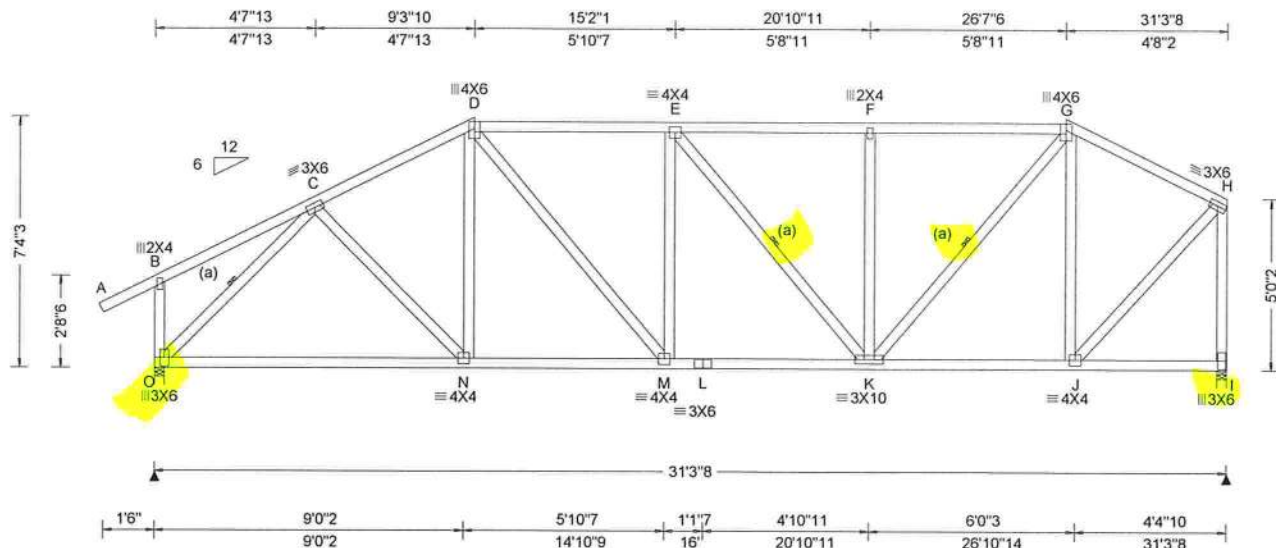
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13439 / FROM: RNB	HIPS Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: H9B	Cust: R 857 JRef: 1WV28570002 T32 DrwNo: 161.20.1358.53676 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCCL: 20.00 TCDL: 7.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.057 E 999 360 VERT(CL): 0.104 E 999 240 HORZ(LL): -0.025 I - - HORZ(TL): 0.040 J - - Creep Factor: 2.0 Max TC CSI: 0.995 Max BC CSI: 0.989 Max Web CSI: 0.876 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1280 /- /- /733 /557 /311 I 1181 /- /- /568 /549 /- Wind reactions based on MWFRS O Brg Width = 3.5 Min Req = 1.6 I Brg Width = 3.5 Min Req = 1.5 Bearings O & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 1182 -1317 F - G 1287 -1217 D - E 1391 -1353 G - H 790 -792 E - F 1285 -1215

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	65	-1.57	9.30
TC	24	9.30	26.62
TC	62	26.62	31.29
BC	87	0.00	31.29

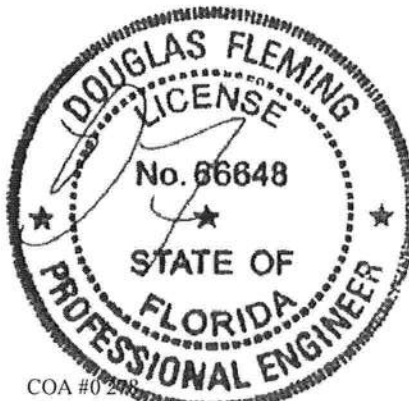
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0 246

06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

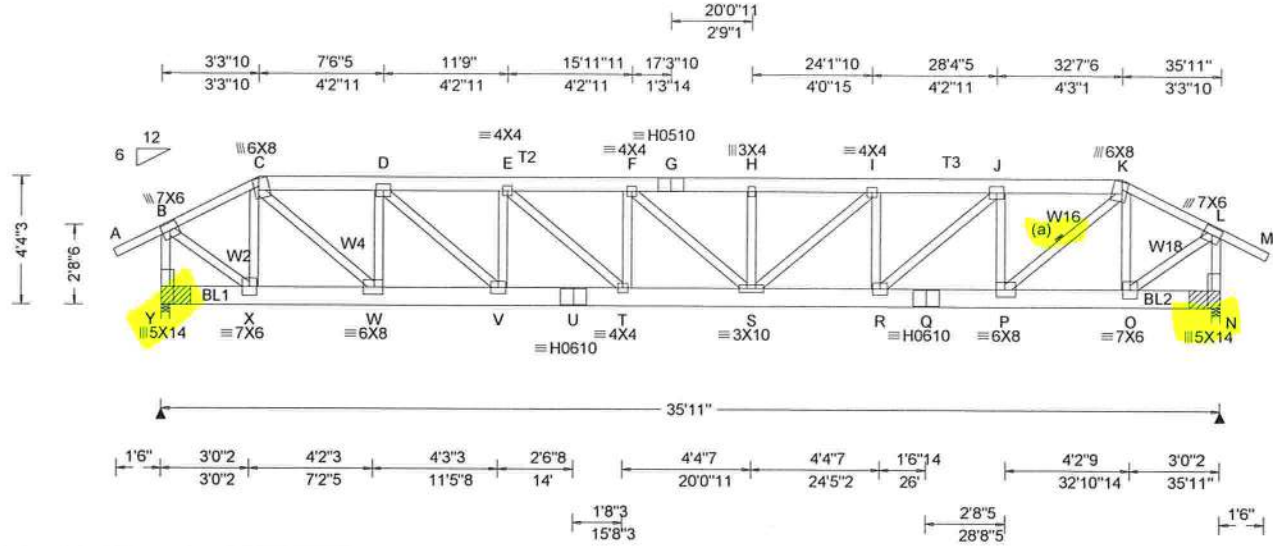
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ALPINE
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.59 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): -0.390 H 999 360 VERT(CL): 0.677 H 637 240 HORZ(LL): -0.090 C - - HORZ(TL): 0.157 C - - Creep Factor: 2.0 Max TC CSI: 0.959 Max BC CSI: 0.988 Max Web CSI: 0.994 VIEW Ver: 18.02.01A.0205.23	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL Y 3744 - / - / - / 2153 - / - N 3744 - / - / - / 2153 - / - Wind reactions based on MWFRS Y Brg Width = 3.5 Min Req = - N Brg Width = 3.5 Min Req = - Bearings Y & N Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1873 - 3244 G - H 5116 - 8929 C - D 3336 - 5816 H - I 5116 - 8929 D - E 4484 - 7825 I - J 4494 - 7844 E - F 5112 - 8924 J - K 3347 - 5834 F - G 5116 - 8929 K - L 1873 - 3245

Lumber
Top chord: 2x4 SP #1; T2,T3 2x6 SP #1;
Bot chord: 2x8 SP SS Dense;
Webs: 2x4 SP #3; W2,W4,W16,W18 2x4 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at -1.63 to 56 plf at 3.30
TC: From 28 plf at 3.30 to 28 plf at 32.62
TC: From 56 plf at 32.62 to 56 plf at 37.55
BC: From 4 plf at -1.63 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 3.33
BC: From 10 plf at 3.33 to 10 plf at 32.58
BC: From 20 plf at 32.58 to 20 plf at 35.92
BC: From 4 plf at 35.92 to 4 plf at 37.55
TC: 237 lb Conc. Load at 3.33,32.58
TC: 194 lb Conc. Load at 5.36, 7.36, 9.36,11.36
13.36,15.36,17.36,18.55,20.55,22.55,24.55,26.55
28.55,30.55
BC: 237 lb Conc. Load at 3.33,32.58
BC: 145 lb Conc. Load at 5.36, 7.36, 9.36,11.36
13.36,15.36,17.36,18.55,20.55,22.55,24.55,26.55
28.55,30.55

Plating Notes
All plates are 5X6 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 38 -1.57 3.30
TC 24 3.30 32.62
TC 38 32.62 37.48
BC 50 0.00 35.92
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/180.
Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
X - W 3009 - 1688 S - R 7953 - 4513
W - V 5994 - 3395 R - Q 6012 - 3406
V - U 7937 - 4505 Q - P 6012 - 3406
U - T 7937 - 4505 P - O 3009 - 1688
T - S 8966 - 5095

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
B - Y 2151 - 3728 H - S 458 - 528
B - X 3574 - 2026 S - I 1337 - 752
X - C 1144 - 1768 I - R 953 - 1430
C - W 3923 - 2228 R - J 2552 - 1442
W - D 1511 - 2379 J - P 1512 - 2379
D - V 2551 - 1442 P - K 3933 - 2234
V - E 974 - 1467 K - O 1144 - 1766
E - T 1376 - 772 O - L 3575 - 2027
T - F 469 - 550 L - N 2151 - 3729

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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13393 /	HIPS	Ply: 1	Job Number: B51038a	Cust: R 857 JRef: 1VVZ8570002 T19
FROM: RNB		Qty: 1	-Pamela Jackson Res Erkinger Home Builders	DrwNo: 161.20.1358.53924
Page 2 of 2			Truss Label: HG3A	SSB / DF 06/09/2020

Bearing Block(s)

Brg blocks: 0.128"x3", min. nails

brg	x-loc	#blocks	length/blk	#nails/blk	wall plate
1	0.000'	1	12"	8	SPF Standard
2	35.625'	1	12"	8	SPF Standard

Brg block to be same size and species as chord.

Refer to drawing C>NNAILSP1014 for more information.



COA #0248

06/09/2020

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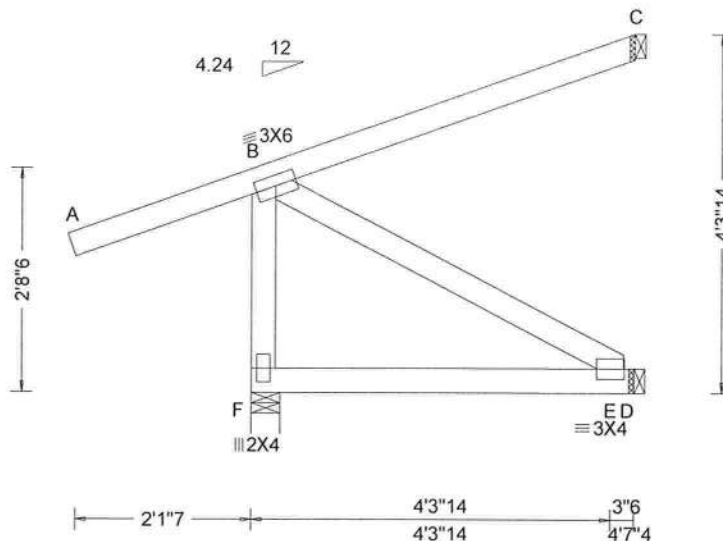
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SEQN: 13375 / FROM: RNB	HIP_	Ply: 1 Qty: 2	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: HJ5	Cust: R 857 JRef: 1WVZ8570002 T10 DrwNo: 161.20.1358.53613 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.002 E 999 360 VERT(CL): 0.004 E 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.324 Max BC CSI: 0.297 Max Web CSI: 0.104 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 243 /- /- /- /165 /54 D 92 /- /- /- /24 /- C 43 /- /- /- /63 /- Wind reactions based on MWFRS F Brg Width = 4.2 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing F Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.22 to 55 plf at -0.10
TC: From 2 plf at -0.10 to 2 plf at 4.61
BC: From 0 plf at -2.22 to 4 plf at -0.10
BC: From 2 plf at 0.00 to 2 plf at 4.61
TC: 131 lb Conc. Load at 1.80
BC: 132 lb Conc. Load at 1.80

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-2.17	4.61
BC	55	0.00	4.61

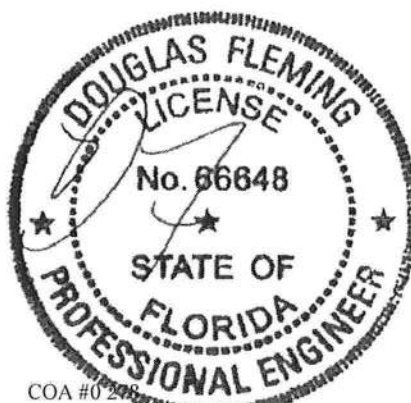
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Left end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0 208

06/09/2020

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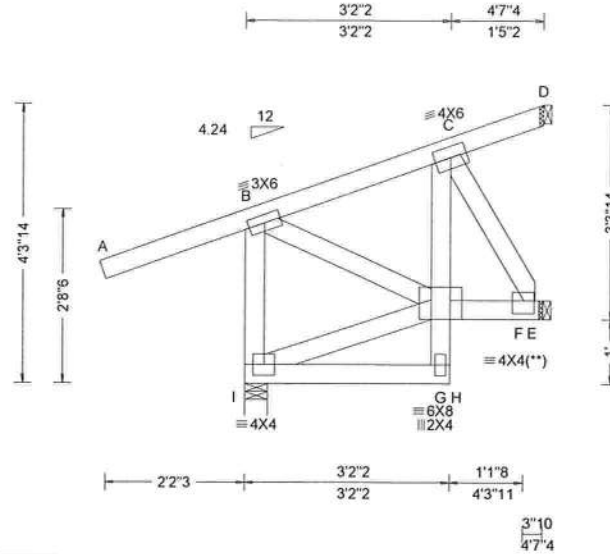
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13373 / FROM: RNB	HIP_	Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: HJ5A	Cust: R 857 JRef: 1WVZ8570002 T26 DrwNo: 161.20.1358.53644 SSB / DF 06/09/2020
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity	Non-Gravity
TCDL: 7.00		Speed: 140 mph		Pf: NA Ce: NA		VERT(LL): -0.002 G 999 360		Loc R+ / R- / Rh	/ Rw / U / RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.002 G 999 240		I 245 /- /- /- /167 /54	
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): -0.001 F - -		E 119 /- /0 /- /126 /0	
Des Ld: 37.00		EXP: C Kzt: NA				HORZ(TL): 0.001 F - -		D 13 /-19 /- /39 /- /-	
NCBCLL: 10.00		Mean Height: 15.00 ft				Creep Factor: 2.0		Wind reactions based on MWFRS	
Soffit: 2.00		TCDL: 0.0 psf		Building Code:		Max TC CSI: 0.176		I Brg Width = 4.2	Min Req = 1.5
Load Duration: 1.25		BCDL: 0.0 psf		FBC 2017 RES		Max BC CSI: 0.194		E Brg Width = 1.5	Min Req = -
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		TPI Std: 2014		Max Web CSI: 0.109		D Brg Width = 1.5	Min Req = -
		C&C Dist a: 3.00 ft		Rep Fac: Varies by Ld Case				Bearing I Fcperp = 425psi.	
		Loc. from endwall: NA		FT/RT:20(0)/0(0)				Members not listed have forces less than 375#	
		GCpi: 0.18		Plate Type(s):					
		Wind Duration: 1.60		WAVE		VIEW Ver: 18.02.01A.0205.23			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.28 to 55 plf at -0.10
TC: From 2 plf at -0.10 to 2 plf at 4.61
BC: From 0 plf at -2.28 to 4 plf at -0.10
BC: From 2 plf at 0.00 to 2 plf at 4.61
TC: 131 lb Conc. Load at 1.80
BC: 132 lb Conc. Load at 1.80

Plating Notes

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-2.23	4.61
BC	36	0.00	3.03
BC	19	3.06	4.61

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.



06/09/2020

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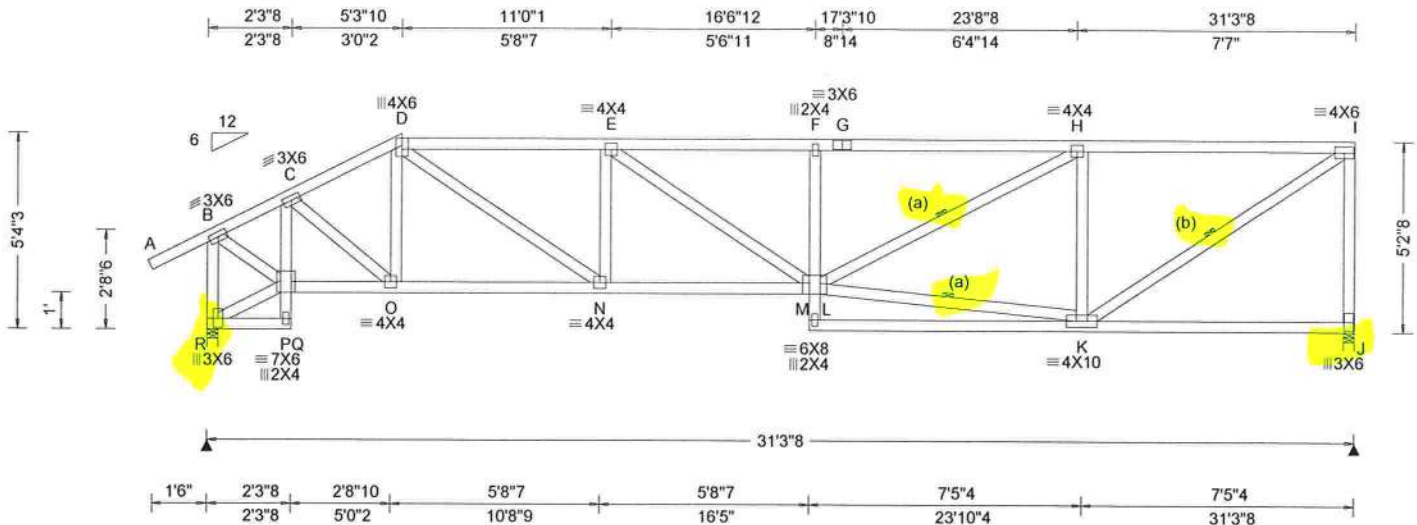
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13385 / FROM: RNB	HIPM Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: MH1	Cust: R 857 JRef: 1WVZ8570002 T30 DrwNo: 161.20.1358.53582 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.13 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.153 F 999 360 VERT(CL): 0.267 F 999 240 HORZ(LL): -0.062 D - - HORZ(TL): 0.100 D - - Creep Factor: 2.0 Max TC CSI: 0.954 Max BC CSI: 0.994 Max Web CSI: 0.995 VIEW Ver: 18.02.01A.0205.23	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL R 1280 - / - / 700 / 689 / 256 J 1181 - / - / 569 / 657 / - Wind reactions based on MWFRS R Brg Width = 3.5 Min Req = 1.6 J Brg Width = 3.5 Min Req = 1.5 Bearings R & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1302 - 1166 F - G 2469 - 2461 C - D 1501 - 1475 G - H 2469 - 2461 D - E 2188 - 2158 H - I 1504 - 1446 E - F 2486 - 2478 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. P - O 1027 - 1452 N - L 2198 - 2396 O - N 1325 - 1592 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - R 1286 - 1248 F - L 433 - 329 B - P 1150 - 1168 L - H 1114 - 1189 R - P 198 - 440 L - K 1418 - 1526 P - C 473 - 466 H - K 1209 - 999 C - O 383 - 433 K - I 1733 - 1755 D - N 1031 - 1044 I - J 1200 - 1123 N - E 670 - 537

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	62	-1.57	5.30
TC	24	5.30	31.29
BC	26	0.00	2.15
BC	67	2.17	16.56
BC	120	16.56	31.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #02

06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

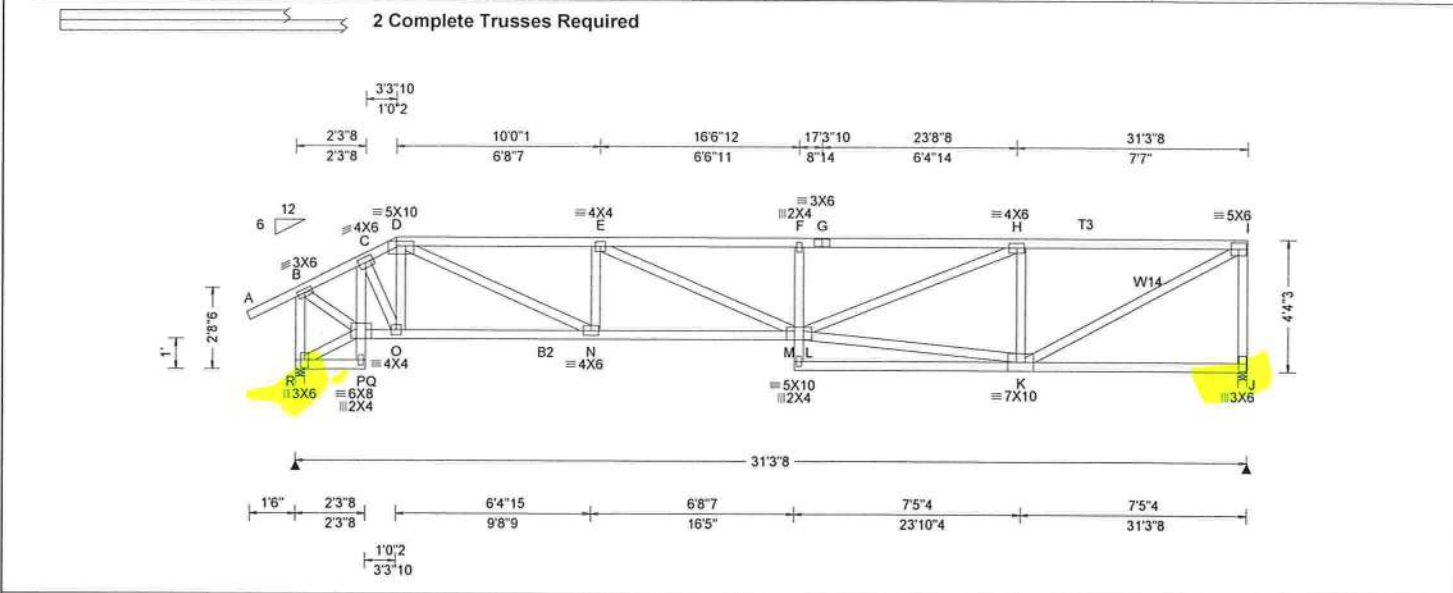
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg.Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)			
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: NA	Ct: NA	PP Deflection in loc L/defl L/#		Gravity		Non-Gravity	
TCDL: 7.00		Speed: 140 mph		Pf: NA	Ce: NA	VERT(LL): -0.306 F 999 360		Loc	R+ / R- / Rh	/ Rw	/ U / RL
BCLL: 0.00		Enclosure: Closed		Lu: NA	Cs: NA	VERT(CL): 0.497 F 754 240		R	2938 -/-	-/-	/1851 /44
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): -0.092 D - -		J	2999 -/-	-/-	/1773 -/-
Des Ld: 37.00		EXP: C Kzt: NA				HORZ(TL): 0.150 D - -		Wind reactions based on MWFRS			
NCBCLL: 10.00		Mean Height: 15.00 ft		Building Code:		Creep Factor: 2.0		R	Brg Width = 3.5	Min Req = 2.0	
Soffit: 2.00		TCDL: 0.0 psf		FBC 2017 RES		Max TC CSI: 0.648		J	Brg Width = 3.5	Min Req = 2.1	
Load Duration: 1.25		BCDL: 0.0 psf		TPI Std: 2014		Max BC CSI: 0.965		Bearings R & J Fcperp = 425psi.			
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Varies by Ld Case		Max Web CSI: 0.861		Members not listed have forces less than 375#			
		C&C Dist a: 3.13 ft		FT/RT:20(0)/0(0)				Maximum Top Chord Forces Per Ply (lbs)			
		Loc. from endwall: NA		Plate Type(s):				Chords	Tens.Comp.	Chords	Tens. Comp.
		GCpi: 0.18		WAVE		VIEW Ver: 18.02.01A.0205.23		B - C	905 -1451	F - G	2518 -4089
		Wind Duration: 1.60						C - D	1062 -1695	G - H	2518 -4089

Lumber		Purlins		Maximum Bot Chord Forces Per Ply (lbs)	
Top chord: 2x4 SP #1; T3 2x4 SP SS Dense;		In lieu of structural panels or rigid ceiling use purlins		Chords	
Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense;		to laterally brace chords as follows:		Tens.Comp.	
Webs: 2x4 SP #3; W14 2x4 SP #1;				Chords	
Nailnote		Chord	Spacing(in oc)	Start(ft)	End(ft)
Nail Schedule:0.128"x3", min. nails		TC	65	-1.57	3.30
Top Chord: 1 Row @12.00" o.c.		TC	24	3.30	31.29
Bot Chord: 1 Row @12.00" o.c.		BC	26	0.00	2.15
Webs : 1 Row @ 4" o.c.		BC	80	2.17	16.56
Use equal spacing between rows and stagger nails		BC	120	16.56	31.29
in each row to avoid splitting.		Apply purlins to any chords above or below fillers			
		at 24" OC unless shown otherwise above.			

Special Loads		Maximum Web Forces Per Ply (lbs)	
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)		Webs	Tens. Comp.
TC: From 56 plf at -1.63 to 56 plf at 3.30		B - R	900 -1446
TC: From 28 plf at 3.30 to 28 plf at 31.29		B - P	1460 -893
BC: From 4 plf at -1.63 to 4 plf at 0.00		P - C	419 -635
BC: From 20 plf at 0.00 to 20 plf at 2.29		C - O	590 -394
BC: From 10 plf at 2.29 to 10 plf at 31.29		D - N	2066 -1284
TC: 51 lb Conc. Load at 3.36		N - E	295 -449
TC: 38 lb Conc. Load at 5.43, 7.43, 9.43,11.43			
13.43,15.43			
TC: 194 lb Conc. Load at 17.43,19.43,21.43,23.43			
25.43,27.43,29.43			
BC: 373 lb Conc. Load at 3.36			
BC: 254 lb Conc. Load at 5.43, 7.43, 9.43,11.43			
13.43,15.43			
BC: 145 lb Conc. Load at 17.43,19.43,21.43,23.43			
25.43,27.43,29.43			

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

COA #0 208

06/09/2020

SEQN: 13382 /	HIPM	Ply: 2	Job Number: B51038a	Cust: R 857 JRef: 1WV28570002 T37
FROM: RNB		Qty: 1	-Pamela Jackson Res Erkinger Home Builders	DrwNo: 161.20.1358.53800
Page 2 of 2			Truss Label: MHG1	SSB / DF 06/09/2020

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



COA #0 248

06/09/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

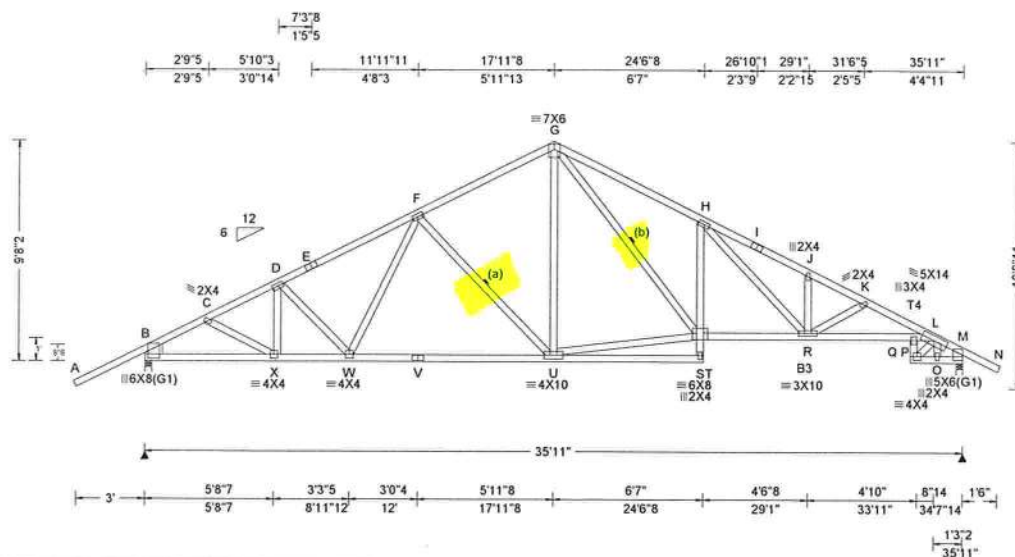
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13398 / FROM: RNB	COMN Ply: 1 Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: T-1	Cust: R 857 JRef: 1WVZ8570002 T1 DrwNo: 161.20.1358.53877 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.293 Q 999 360 VERT(CL): 0.541 Q 797 240 HORZ(LL): 0.184 O - - HORZ(TL): 0.340 O - - Creep Factor: 2.0 Max TC CSI: 0.982 Max BC CSI: 0.985 Max Web CSI: 0.897 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1549 - / - / - / 935 / 533 / 353 M 1447 - / - / - / 849 / 498 / - Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.9 M Brg Width = 3.5 Min Req = 1.8 Bearings B & M Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #1; T4 2x4 SP SS Dense;
Bot chord: 2x4 SP #1; B3 2x4 SP SS Dense;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #1; Rt Stub Wedge: 2x4 SP #3;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.) nails @ 6" oc.

Plating Notes
All plates are 3X6 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	38	-3.07	17.96
TC	35	17.96	37.48
BC	89	0.00	24.40
BC	76	24.44	34.72
BC	28	33.63	35.92

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

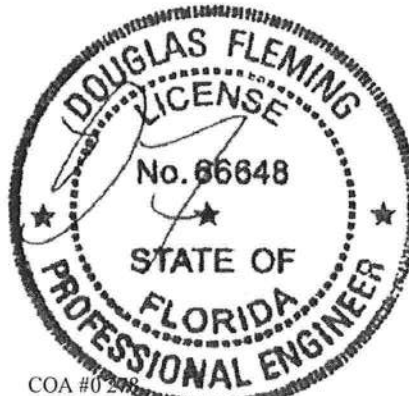
Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - X	1784 - 1288	R - P	3153 - 1736
X - W	1959 - 1203	Q - O	781 - 437
W - V	1688 - 922	P - L	3231 - 1778
V - U	1688 - 922	O - M	775 - 432
S - R	2152 - 1114		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
W - F	408 - 233	S - H	558 - 691
F - U	482 - 540	H - R	861 - 513
G - U	442 - 251	R - K	338 - 504
G - S	1296 - 835	Q - P	845 - 470
U - S	1269 - 565	Q - L	654 - 1168



COA #0208
06/09/2020

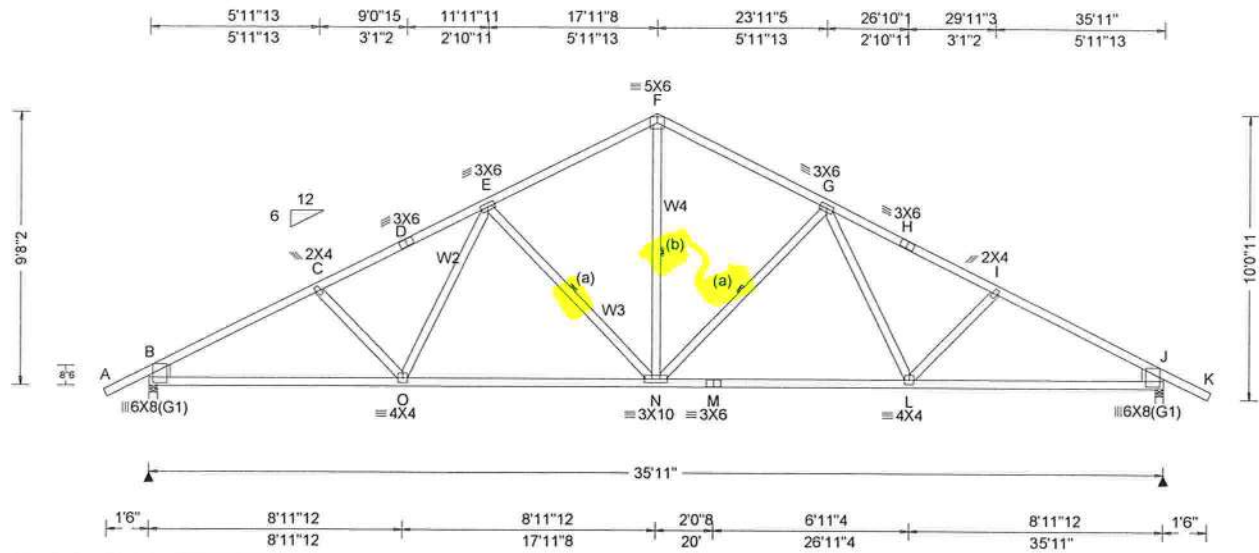
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety 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 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.

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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13443 / FROM: RNB	COMN Qty: 1	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: T-2	Cust: R 857 JRef: 1WVZ8570002 T18 DrwNo: 161.20.1358.53660 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft BCDL: 0.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.59 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.129 N 999 360 VERT(CL): 0.239 N 999 240 HORZ(LL): 0.053 L - - HORZ(TL): 0.099 L - - Creep Factor: 2.0 Max TC CSI: 0.993 Max BC CSI: 0.989 Max Web CSI: 0.995 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1453 /- /- /848 /500 /324 J 1453 /- /- /848 /500 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.8 J Brg Width = 3.5 Min Req = 1.8 Bearings B & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1585 -2358 F - G 1386 -1561 C - D 1517 -2144 G - H 1622 -2065 D - E 1517 -2066 H - I 1622 -2144 E - F 1119 -1561 I - J 1688 -2358

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W2,W3 2x4 SP #1;
W4 2x4 SP SS Dense;
Lt Stub Wedge: 2x6 SP #1;Rt Stub Wedge: 2x6 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 42 -1.57 17.96
TC 42 17.96 37.48
BC 88 0.00 35.92
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



COA #0 248
06/09/2020

Chords	Tens.Comp.	Chords	Tens. Comp.
B - O 2018 -2099		M - L 1712 -1140	
O - N 1712 -1698		L - J 2018 -1361	
N - M 1712 -1140			

Maximum Web Forces Per Ply (lbs)	Webs	Tens.Comp.	Webs	Tens. Comp.
O - E 420 -243		N - G 459 -558		
E - N 753 -558		G - L 420 -186		
F - N 1002 -770				

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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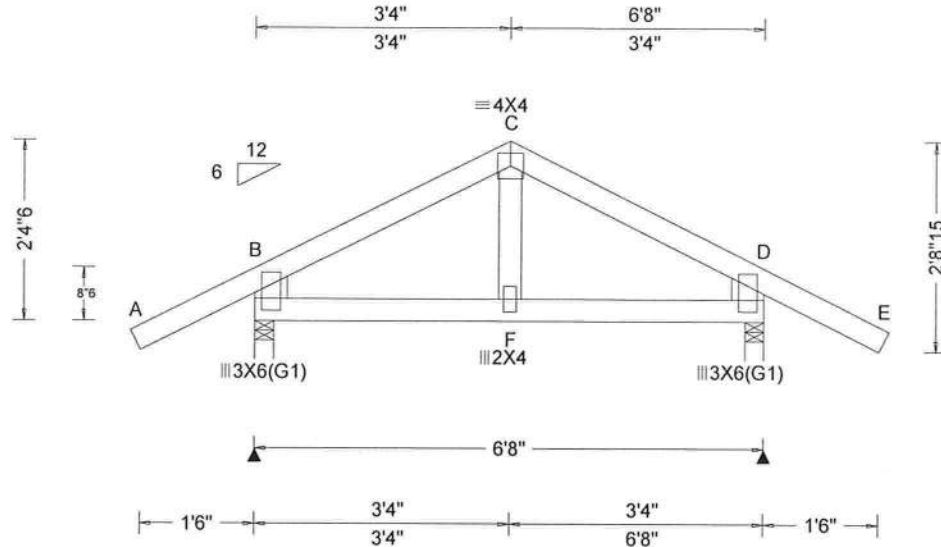
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 13418 / FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: T-3	Cust: R 857 JRef: 1WVZ8570002 T20 DrwNo: 161.20.1358.53722 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 F 999 360 VERT(CL): 0.005 F 999 240 HORZ(LL): 0.001 F - - HORZ(TL): 0.002 F - - Creep Factor: 2.0 Max TC CSI: 0.273 Max BC CSI: 0.078 Max Web CSI: 0.117 VIEW Ver: 18.02.01A.0205.23	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 346 /- /- /232 /188 /97 D 346 /- /- /232 /188 /- Wind reactions based on MWFRS B Brg Width = 3.0 Min Req = 1.5 D Brg Width = 3.0 Min Req = 1.5 Bearings B & D Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 413 -257 C - D 430 -257

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3; Rt Stub Wedge: 2x4 SP #3;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

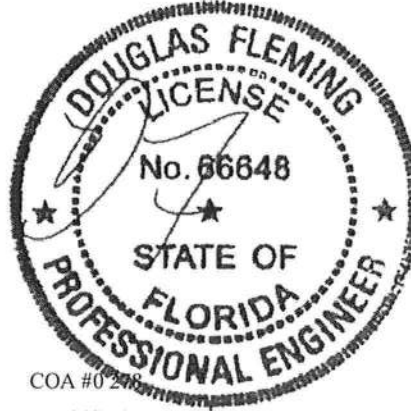
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	66	-1.57	3.33
TC	66	3.33	8.23
BC	80	0.00	6.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



06/09/2020

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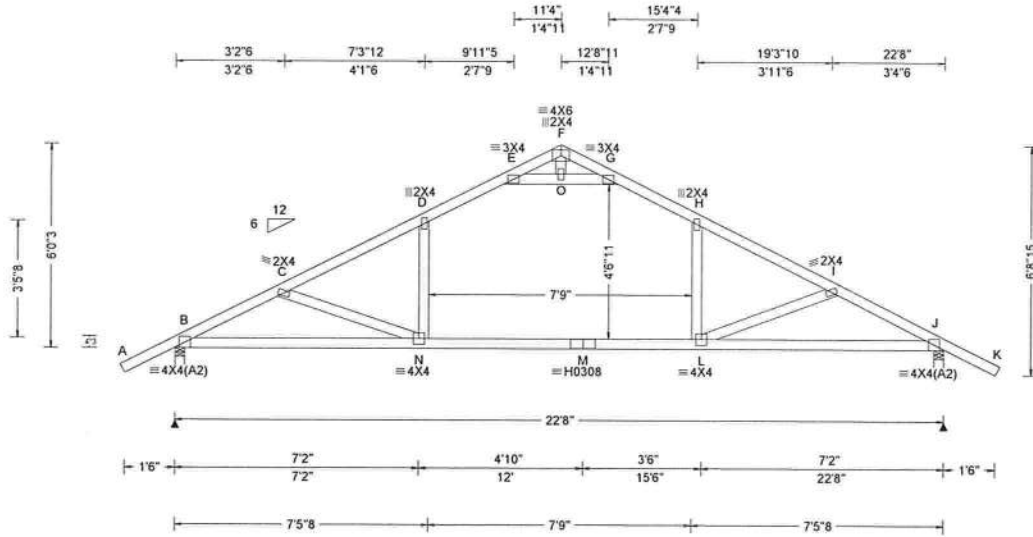
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 62646 FROM: CVB	COMN Ply: 1 Qty: 7	Job Number: B51038a -Pamela Jackson Res Erkinger Home Builders Truss Label: T-4	Cust: R 857 JRef: 1VVZ8570002 T11 DrwNo: 161.20.1355.24383 SSB / DF 06/09/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg. Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 0.0 psf BCDL: 0.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): -0.285 D 943 360 VERT(CL): 0.593 D 452 240 HORZ(LL): -0.142 D - - HORZ(TL): 0.288 D - - Creep Factor: 2.0 Max TC CSI: 0.980 Max BC CSI: 0.976 Max Web CSI: 0.714 VIEW Ver: 18.02.01A.0205.19	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1068 /- /- /561 /517 /217 J 1068 /- /- /561 /517 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 J Brg Width = 3.5 Min Req = 1.5 Bearings B & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1470 -1902 F - G 776 -483 C - D 1236 -1580 G - H 1050 -1259 D - E 1039 -1260 H - I 1235 -1582 E - F 775 -500 I - J 1450 -1894

Lumber

Top chord: 2x4 SP SS Dense;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3;

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	56	-1.57	11.33
TC	56	11.33	24.23
BC	99	0.15	22.52

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.
BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 7-5-8 to 15-2-8.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



COA #0218
06/09/2020

****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 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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 and 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 these web sites: Alpine: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

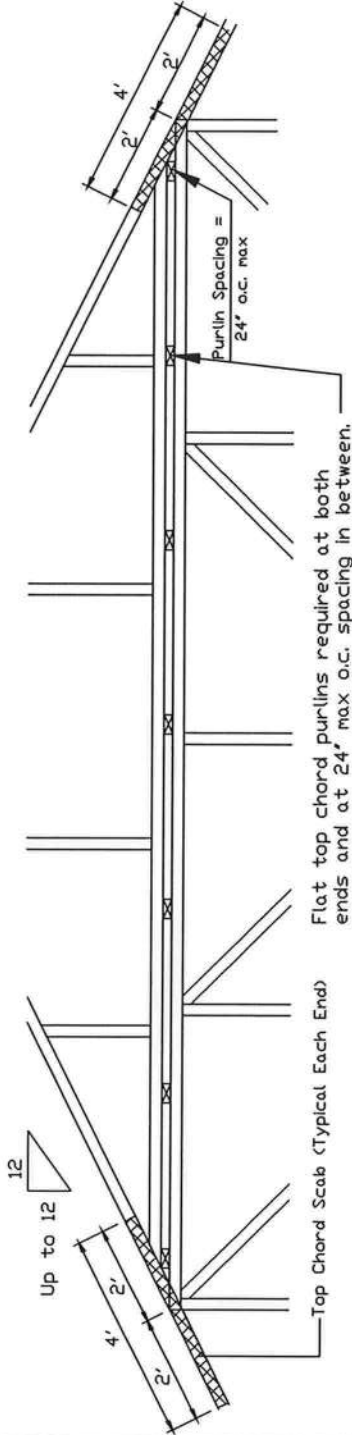
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
At 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



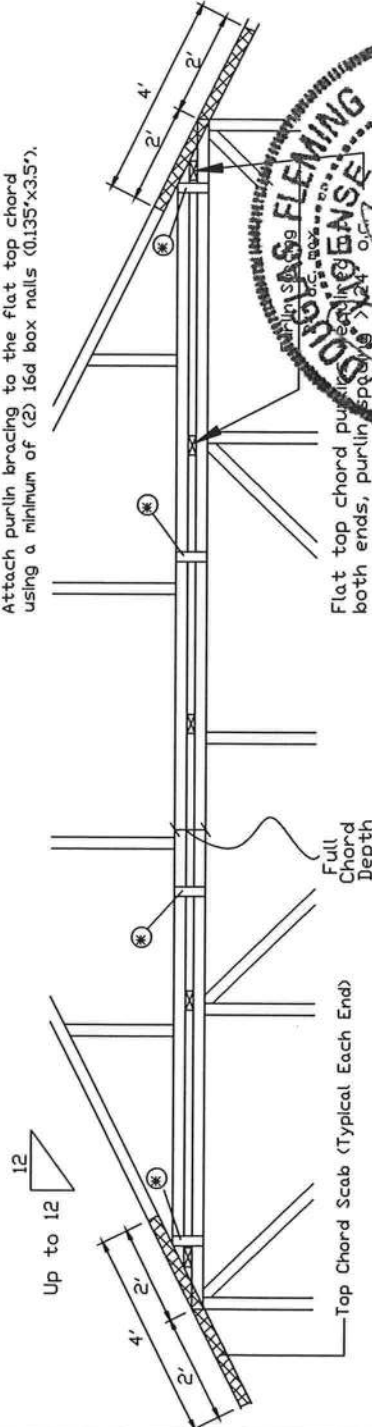
Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.
Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSP (Building Component Safety Information, by TPI and SBCA) for details on performing these functions. Installers shall provide temporary bracing and bracing details to the building engineer of record. The building engineer of record shall have a properly attached rigid ceiling. Location shall be for the building engineer of record. Refer to drawings 160A-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, or bracing of trusses. The building engineer of record shall have the responsibility for the engineering responsibility solely for the design shown. The building engineer of record shall have the responsibility for the design shown. The building engineer of record shall have the responsibility for the design shown.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineinc.com TPI: www.tpi.org SBCA: www.sbcaindstry.org ICC: www.iccsafe.org



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* In addition, provide connection with one of the following methods:
Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.
APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.
2x4 Vertical Scabs 2x4 SPF #2. Full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118

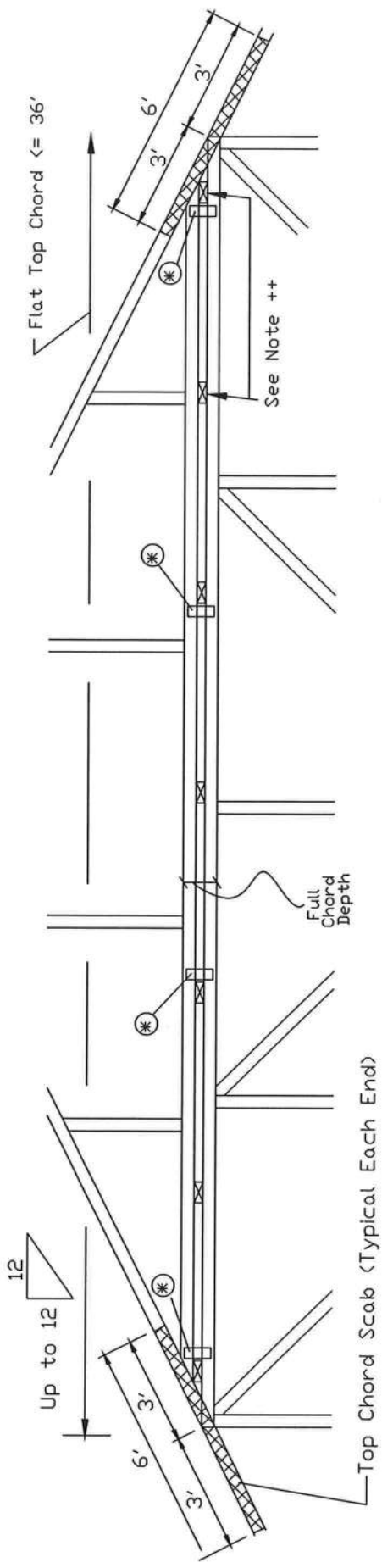
SPACING 24.0"

Piggyback Detail - ASCE 7-16: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

180 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.
Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.
** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

++ Flat top chord purlins required at both ends and at a maximum of 24' intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



* In addition, provide connection with one of the following methods:	
Trulox	28PB Wave Piggyback Plate
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.	One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.
APA Rated Gusset	2x4 Vertical Scabs
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.	2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab. Attach top piggyback chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.



IMPORTANT: READ AND FOLLOW ALL NOTES IN THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information, by TPI and SBCA for safety and installation instructions. Trussing Engineers shall provide temporary bracing per BCSI unless noted otherwise. Top chords shall have permanent lateral bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-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, or bracing of trusses.
The engineer's seal and signature on this drawing indicate acceptance of professional engineering responsibility solely for the design shown. The authority of the engineer 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.alpineinc.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



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11 Maryland Heights, MO 63043

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB180160118

SPACING 24.0'

Cracked or Broken Member Repair Detail

Load Duration = 0%
Member forces may be increased for Duration of Load

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section
(L) = Minimum nailing distance on each side of damaged area (B)
(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face.
Minimum side member length(s) = (2)(L) + (B)

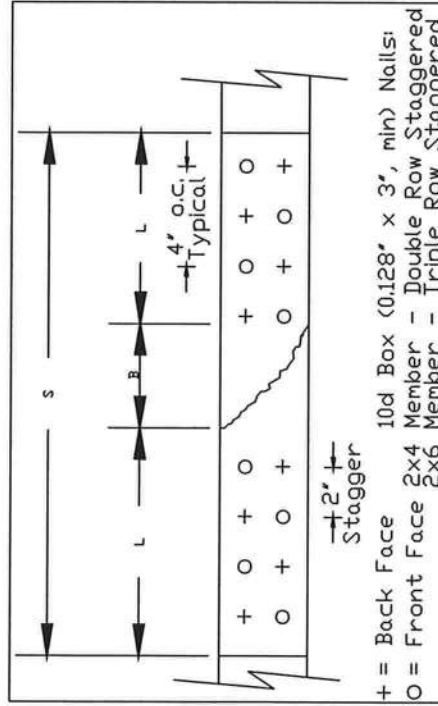
Scab member length (S) must be within the broken panel.
Nail into 2x4 members using two (2) rows at 4' o.c., rows staggered.
Nail into 2x6 members using three (3) rows at 4' o.c., rows staggered.
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 16S0f.

This repair detail may be used for broken connector plate at mid-panel splices.

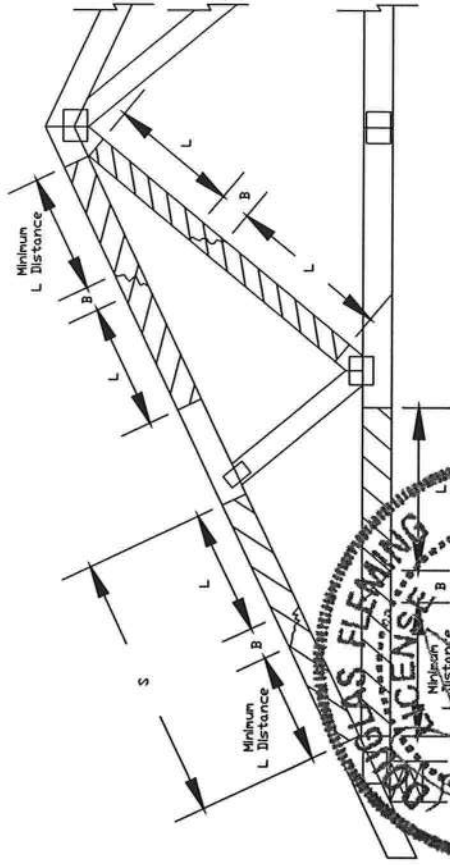
This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.



Nail Spacing Detail

Member	Size	L	SPF-C	HF	DF-L	SYP
Web Only	2x4	12"	620#	635#	730#	800#
Web Only	2x4	18"	975#	1055#	1295#	1415#
Web or Chord	2x4	24"	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30"	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42"	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48"	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



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STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 066848
EXP. 06/30/18

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING TO THE INSTALLER.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of ECSI Building Component Safety Information, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing and blocking unless noted otherwise. Top chord shall have properly attached temporary bracing and blocking. All truss members shall be properly braced and blocked. Locations shown for permanent lateral restraint of web members shall be used. All truss members shall be properly braced and blocked. Refer to drawings 160A-2 for standard plate positions.

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

This drawing is a design and engineering drawing. It is not a construction drawing. The user of this drawing assumes all engineering responsibility solely for the design and construction of the structure. The user of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcaindustry.org ICC: www.iccsafe.org

REF MEMBER REPAIR
DATE 10/01/14
DRWG REPCHRD1014

SPACING 24.0" **MAX**

SPACING 24.0" **MAX**

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

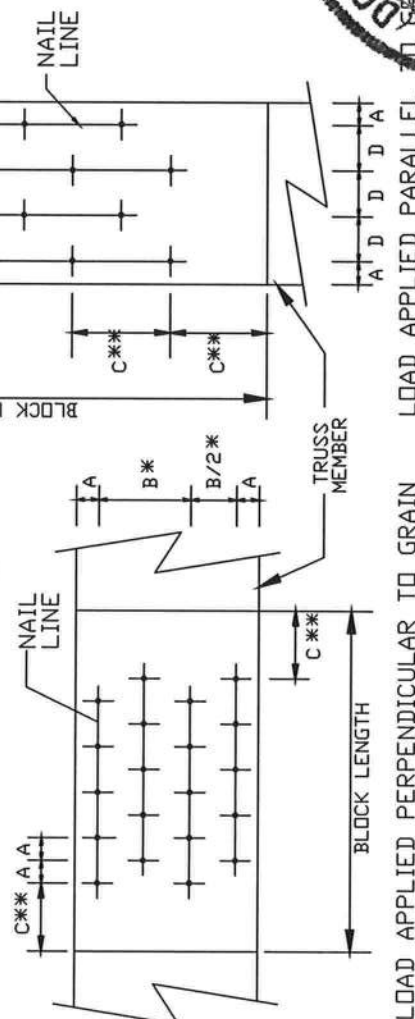
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%.

** SPACING MAY BE REDUCED BY 33%.

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN LOAD APPLIED PARALLEL TO GRAIN

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

Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information, by TPI and SBCA for current practices prior to performing these functions. Installers shall provide temporary bracing and blocking. Unless noted otherwise, top chord shall have properly attached structural sheathing and blocking and shall have bracing installed per BCSI section 83.87. BCSI section 83.87 shall be followed for details of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITV 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 or trusses. The engineer shall be responsible for the design of the truss and for the engineering responsibility solely for the design shown. The authority 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.alpineinc.com TPI: www.tpinet.org SBCA: www.sbcainst.org ICC: www.iccsafe.org



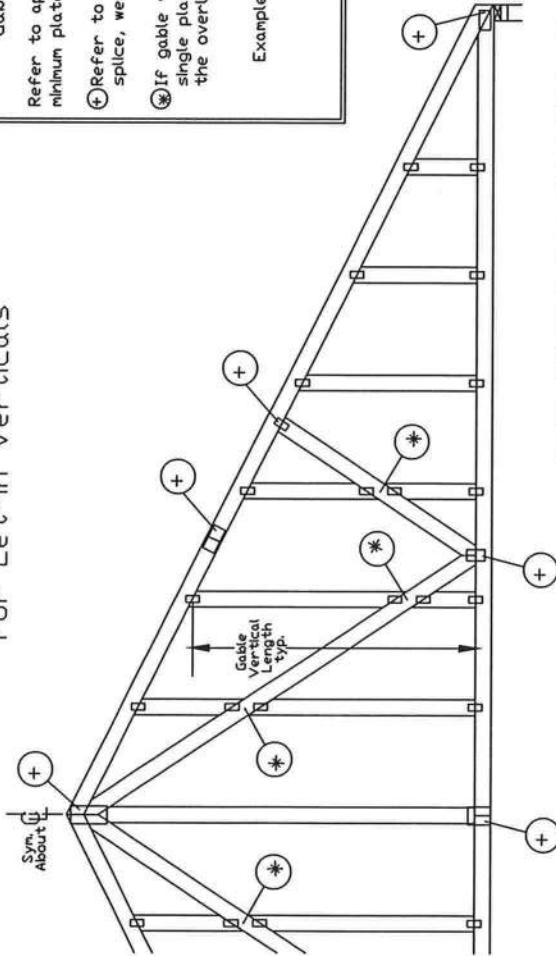
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MINIMUM NAIL SPACING DISTANCES

DISTANCES				
NAIL TYPE	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"



Gable Detail For Let-in Verticals

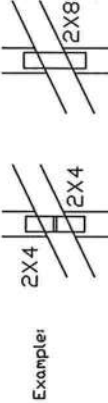


Gable Truss Plate Sizes

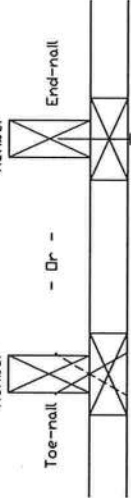
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



T Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mar. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 100

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length

1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x 3".min) Nails at 4' o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3".min) Toenails at 4' o.c. plus

(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A1015051014, A1015051014, A14015051014, A13030051014, A12030051014, A1030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A22015ENC100118, A24015ENC100118, A26015ENC100118, A28015ENC100118, A30015ENC100118, A32015ENC100118, A34015ENC100118, A36015ENC100118, A38015ENC100118, A40015ENC100118, A42015ENC100118, A44015ENC100118, A46015ENC100118, A48015ENC100118, A50015ENC100118, A52015ENC100118, A54015ENC100118, A56015ENC100118, A58015ENC100118, A60015ENC100118, A62015ENC100118, A64015ENC100118, A66015ENC100118, A68015ENC100118, A70015ENC100118, A72015ENC100118, A74015ENC100118, A76015ENC100118, A78015ENC100118, A80015ENC100118, A82015ENC100118, A84015ENC100118, A86015ENC100118, A88015ENC100118, A90015ENC100118, A92015ENC100118, A94015ENC100118, A96015ENC100118, A98015ENC100118, A100015ENC100118, A102015ENC100118, A104015ENC100118, A106015ENC100118, A108015ENC100118, A110015ENC100118, A112015ENC100118, A114015ENC100118, A116015ENC100118, A118015ENC100118, A120015ENC100118, A122015ENC100118, A124015ENC100118, 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