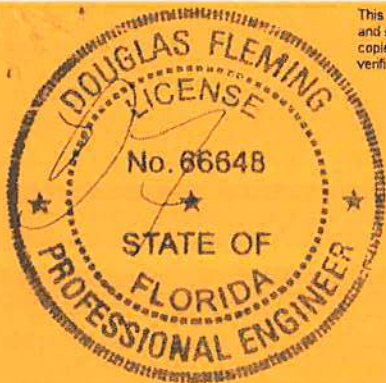




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6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755 6001
www.alpineitw.com

COA #0 278
03/18/2022



Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B55151a
Job Description: Thorton Res	
Address: 386 SW Roanoke Terrace, FORT WHITE, FL 32038	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.03A
	JRef #: 1XdX8570001
Wind Standard: ASCE 7 16	Wind Speed (mph): 130
Building Type: Closed	Design Loading (psf): 37.00

This package contains general notes pages, 56 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	077.22.1525.18410	CJ2
3	077.22.1525.11980	CJ2B
5	077.22.1525.06873	CJ4A
7	077.22.1525.00017	CJ5
9	077.22.1524.55837	CJ6A
11	077.22.1524.49767	EJ7
13	077.22.1524.41413	EJ8A
15	077.22.1524.22693	FTG1
17	077.22.1524.00107	GE2
19	077.22.1523.19210	H5A
21	077.22.1523.53363	H10B
23	077.22.1523.46623	H12B
25	077.22.1523.39803	H16A
27	077.22.1523.34207	H18B
29	077.22.1523.27430	H20B
31	077.22.1522.50120	HG8B
33	077.22.1521.31507	HJ4
35	077.22.1521.07560	HJ5
37	077.22.1521.46717	HJ11A
39	077.22.1520.54523	S1
41	077.22.1520.47497	S3
43	077.22.1520.41847	S5
45	077.22.1520.37920	S7
47	077.22.1520.31840	SG1
49	077.22.1520.01247	T 1
51	077.22.1519.56793	T 3

Item	Drawing Number	Truss
2	077.22.1525.13840	CJ2A
4	077.22.1525.09480	CJ4
6	077.22.1525.04167	CJ4B
8	077.22.1524.57683	CJ6
10	077.22.1524.52713	EJ6
12	077.22.1524.46827	EJ8
14	077.22.1524.33620	FT1
16	077.22.1524.05730	GE1
18	077.22.1523.22730	H3A
20	077.22.1523.58077	H10A
22	077.22.1523.49060	H12A
24	077.22.1523.43760	H14A
26	077.22.1523.36407	H18A
28	077.22.1523.30420	H20A
30	077.22.1523.13747	HG8A
32	077.22.1521.35530	HJ3
34	077.22.1521.15333	HJ4A
36	077.22.1521.57337	HJ11
38	077.22.1520.58617	MH1
40	077.22.1520.51237	S2
42	077.22.1520.44337	S4
44	077.22.1520.40077	S6
46	077.22.1520.35307	S8
48	077.22.1520.16980	SG2
50	077.22.1519.58730	T 2
52	077.22.1519.54693	T 4



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Site Information:	Page 2:
Customer: Seminole Trusses, Inc.	Job Number: B55151a
Job Description: Thorton Res	
Address: 386 SW Roanoke Terrace, FORT WHITE, FL 32038	

Item	Drawing Number	Truss
53	077.22.1519.51387	T 5
55	077.22.1519.00623	TG 2
57	PB160160118	
59	REPCHRD1014	
61	A14015ENC160118	

Item	Drawing Number	Truss
54	077.22.1519.48330	TG 1
56	077.22.1516.45257	TG 3
58	PB180160118	
60	CNNAILSP1014	
62	GBLLETIN0118	

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.

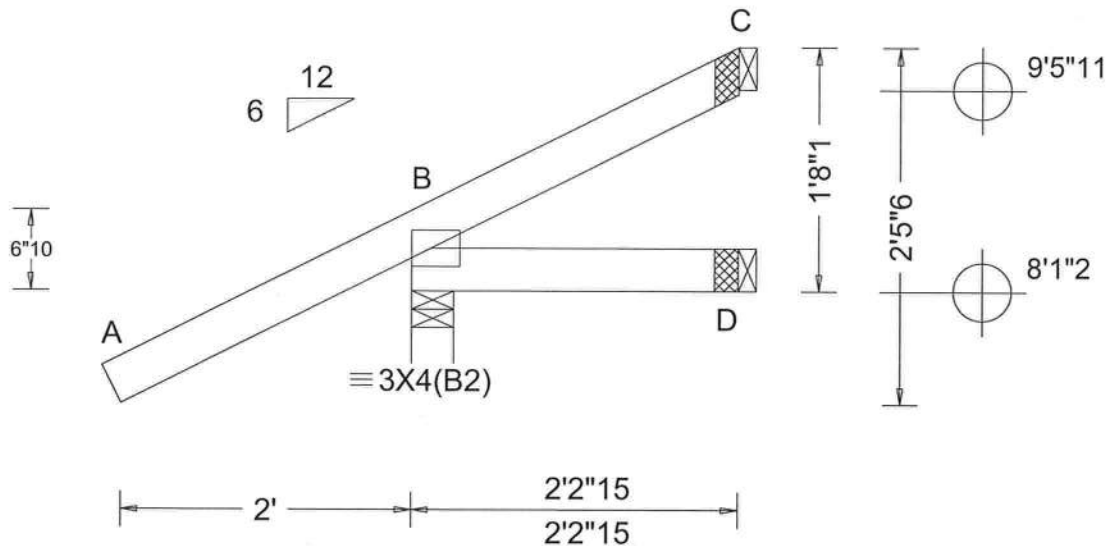
Refer to ASCE 7 for Wind and Seismic abbreviations.

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.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; 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.sbcacomponents.com.

SEQN: 105840 FROM: RNB	JACK Qty: 6	Ply: 1 Qty: 6	Job Number: B55151a Thorton Res Truss Label: CJ2	Cust: R 857 JRef: 1XdX8570001 T8 DrwNo: 077.22.1525.18410 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.001 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.269 Max BC CSI: 0.039 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 274 / / / /206 /71 /69 D 38 / / / /20 / / / C 9 / / / /33 /28 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	58	2.07	2.24
BC	25	0.13	2.24

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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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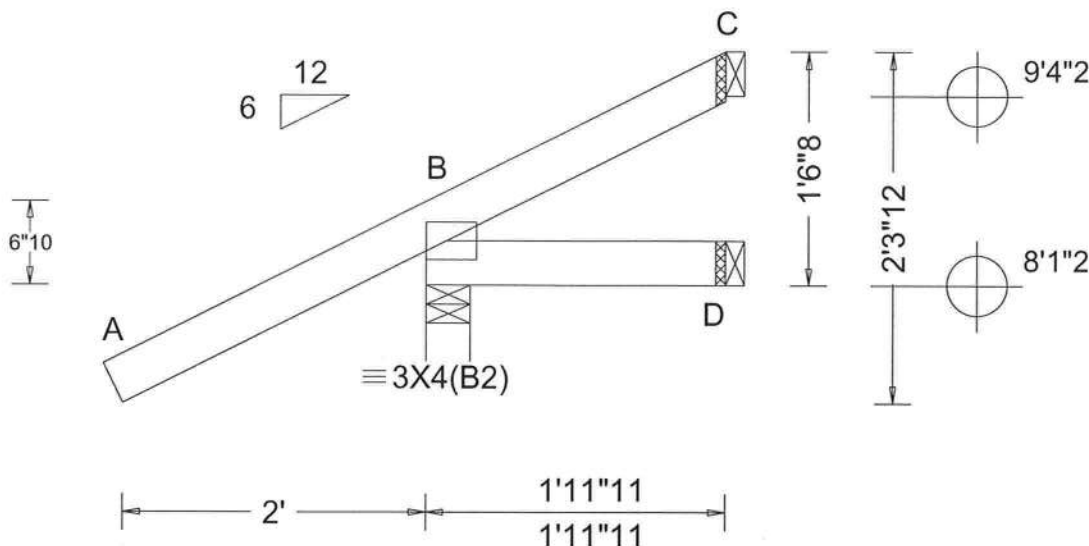
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



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Suite 305
Orlando FL, 32821

SEQN: 105616 FROM: RNB	JACK Ply: 1 Qty: 6	Job Number: B55151a Thorton Res Truss Label: C.J2A	Cust: R 857 JRef: 1XdX8570001 T25 DrwNo: 077.22.1525.13840 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.001 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.407 Max BC CSI: 0.058 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 273 / / / /208 /77 /64 D 33 / / / /18 / / C / 6 / /36 /36 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	54	2.07	1.97
BC	22	0.13	1.97

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

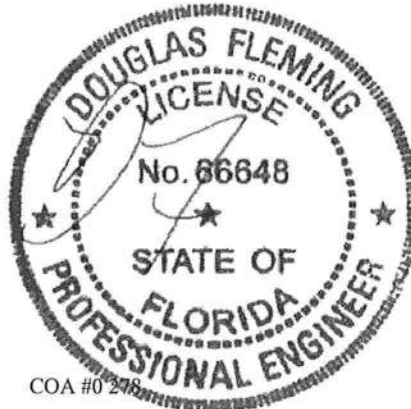
Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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

03/18/2022

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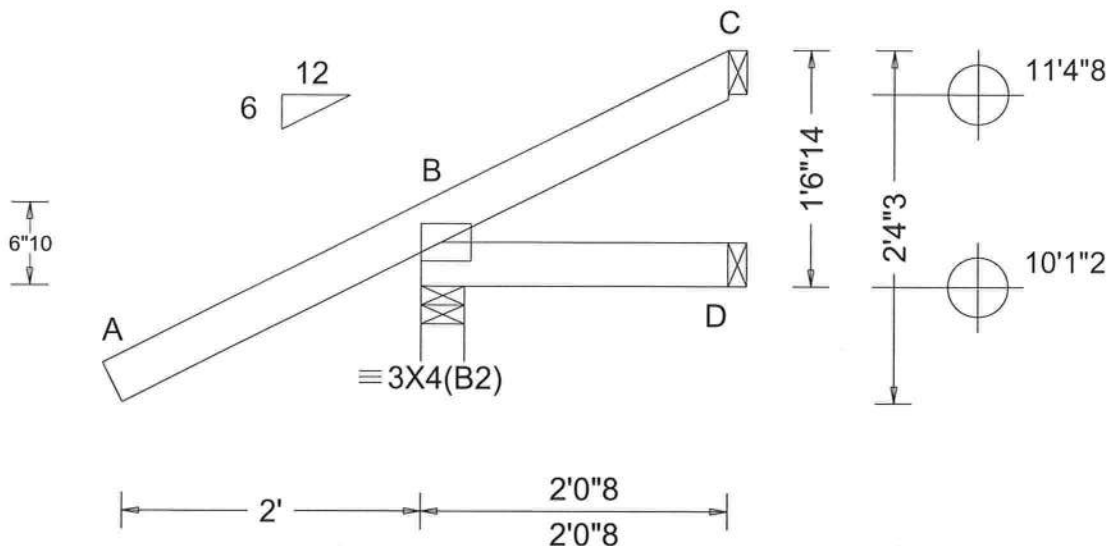
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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Orlando FL, 32821

SEQN: 105725 FROM: RNB	JACK Qty: 2	Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: CJ2B	Cust: R 857 JRef: 1XdX8570001 T60 DrwNo: 077.22.1525.11980 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.001 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.407 Max BC CSI: 0.058 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 273 / / / /207 /76 /66 D 34 / / / /19 / / C / 2 / /35 /34 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	55	2.07	2.04
BC	23	0.13	2.04

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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

03/18/2022

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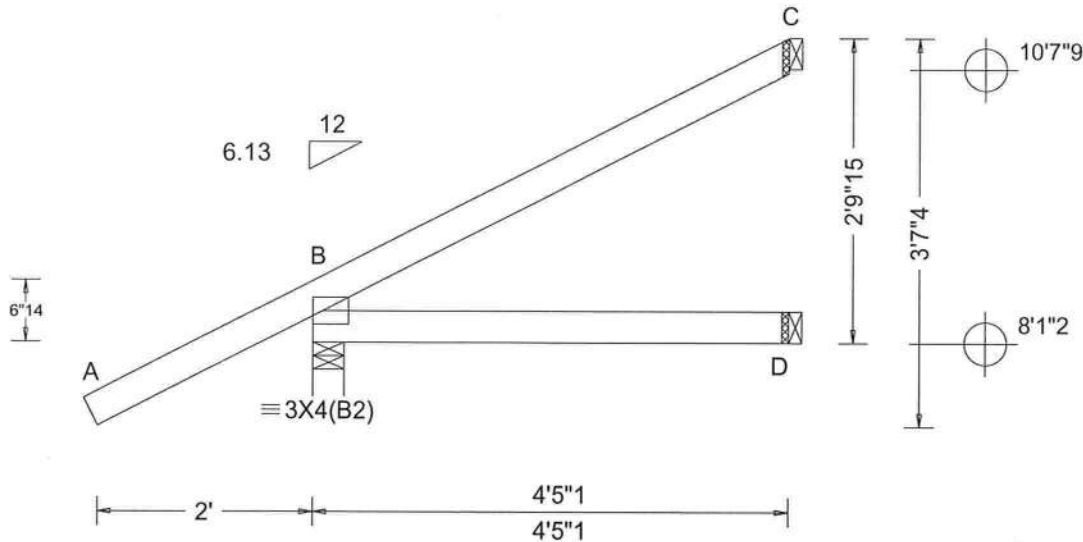
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105814 FROM: RNB	JACK Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: CJ4	Cust: R 857 JRef: 1XdX8570001 T16 DrwNo: 077.22.1525.09480 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.002 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.331 Max BC CSI: 0.142 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 324 / / / /227 /59 /110 D 82 / / / /42 / / C 95 / / / /50 /64 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	2.07	4.42
BC	52	0.09	4.42

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

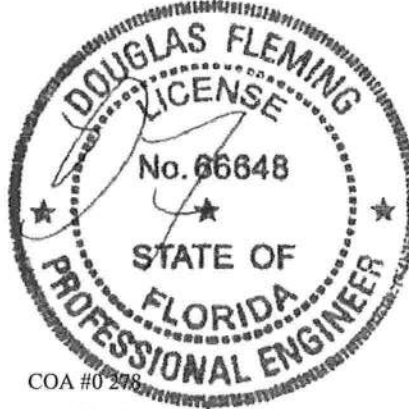
Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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

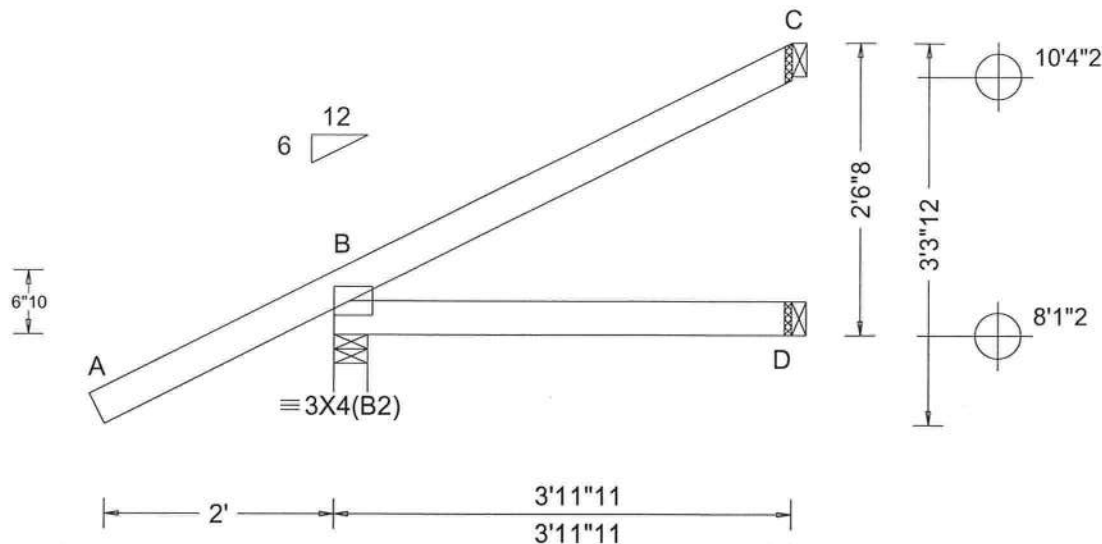
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105618 FROM: RNB	JACK Ply: 1 Qty: 4	Job Number: B55151a Thorton Res Truss Label: CJ4A	Cust: R 857 JRef: 1XdX8570001 T24 DrwNo: 077.22.1525.06873 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.001 C HORZ(TL): 0.002 C Creep Factor: 2.0 Max TC CSI: 0.291 Max BC CSI: 0.109 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 312 / / / /221 /61 /100 D 72 / / / /38 / / C 79 / / / /39 /54 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	2.07	3.97
BC	46	0.13	3.97

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.



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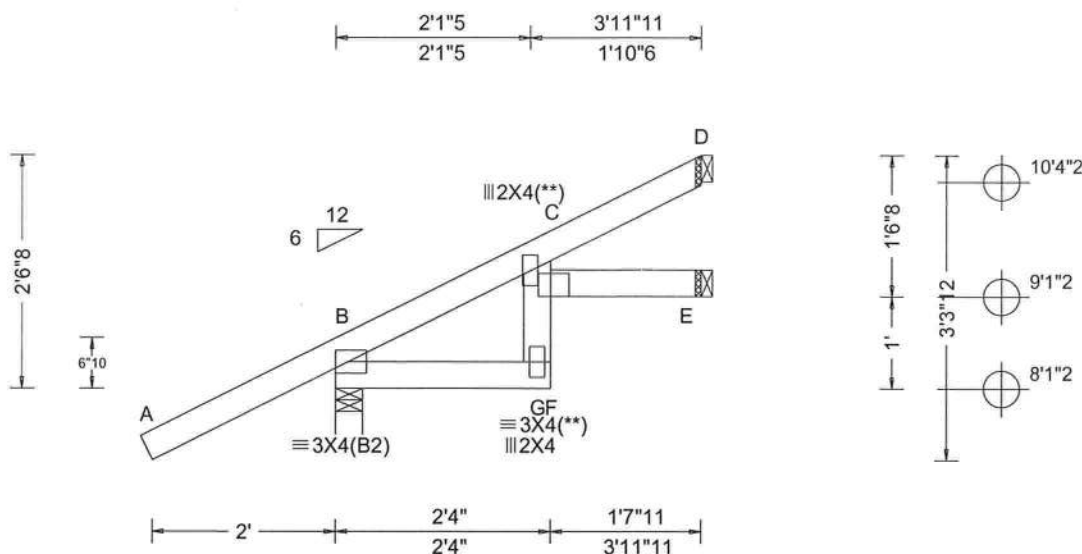
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105624 FROM: RNB	JACK Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: CJ4B	Cust: R 857 JRef: 1Xd8570001 T30 DrwNo: 077.22.1525.04167 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): 0.012 F 999 360 VERT(CL): 0.021 F 999 240 HORZ(LL): 0.006 C HORZ(TL): 0.012 C Creep Factor: 2.0 Max TC CSI: 0.269 Max BC CSI: 0.036 Max Web CSI: 0.056 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh - / Rw / U / RL Non Gravity B 312 / / / 221 / 61 / 100 E 39 / / / 22 / / / D 90 / / / 53 / 41 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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;

Plating Notes

(**) 2 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	2.07	3.97
BC	26	0.13	2.33
BC	20	2.33	3.97

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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
03/18/2022

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

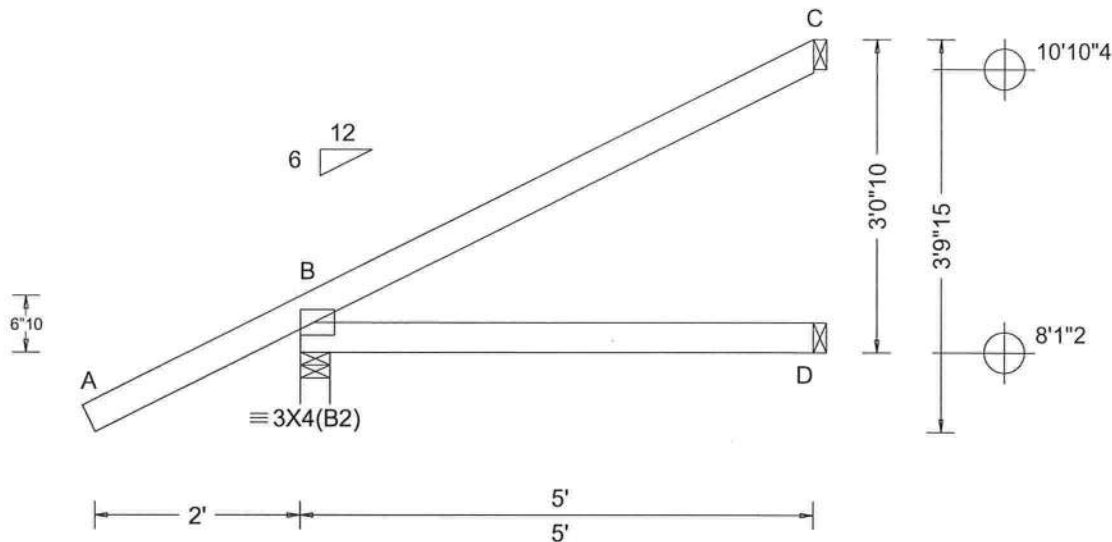
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.002 C HORZ(TL): 0.003 B Creep Factor: 2.0 Max TC CSI: 0.331 Max BC CSI: 0.185 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 343 / / /238 /61 /118 D 92 / / /48 / / C 111 / / /60 /72 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	2.07	5.00
BC	58	0.13	5.00

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 #0 248
03/18/2022

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

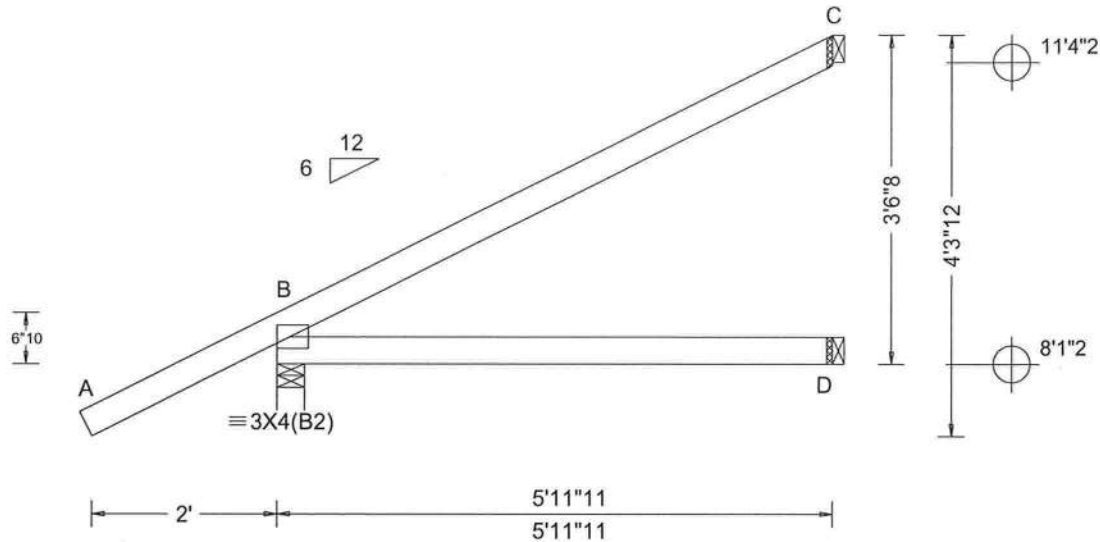
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SEQN: 105620 FROM: RNB	JACK Qty: 4	Ply: 1 Qty: 4	Job Number: B55151a Thorton Res Truss Label: CJ6	Cust: R 857 JRef: 1XdX8570001 T23 DrwNo: 077.22.1524.57683 KD / DF 03/18/2022
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Loading Criteria (psf)	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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.004 B HORZ(TL): 0.007 B Creep Factor: 2.0 Max TC CSI: 0.416 Max BC CSI: 0.276 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 376 / / / 1256 /62 /135 D 111 / / / 158 / / C 140 / / / 178 /88 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	2.07	5.97
BC	70	0.13	5.97

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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
03/18/2022

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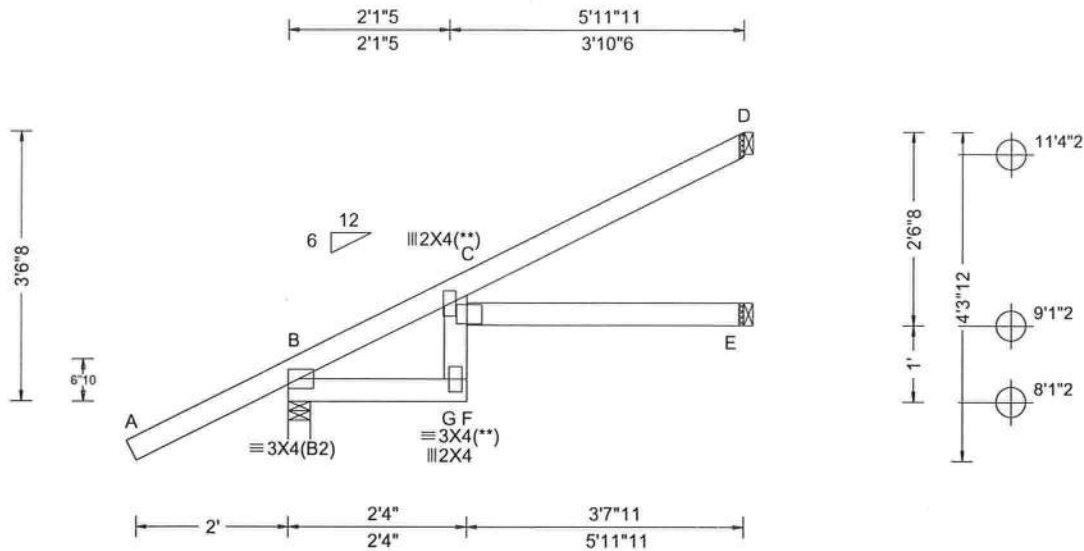
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Suite 305
Orlando FL, 32821

SEQN: 105626 FROM: RNB	JACK Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: C.J6A	Cust: R 857 JRef: 1XdX8570001 T29 DrwNo: 077.22.1524.55837 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): 0.081 F 876 360 VERT(CL): 0.145 F 489 240 HORZ(LL): 0.045 C HORZ(TL): 0.081 C Creep Factor: 2.0 Max TC CSI: 0.428 Max BC CSI: 0.142 Max Web CSI: 0.157 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 376 / / / 256 /62 /135 E 82 / / / 44 / / D 151 / / / 91 /77 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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;

Plating Notes

(**) 2 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	2.07	5.97
BC	26	0.13	2.33
BC	44	2.33	5.97

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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

03/18/2022

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

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

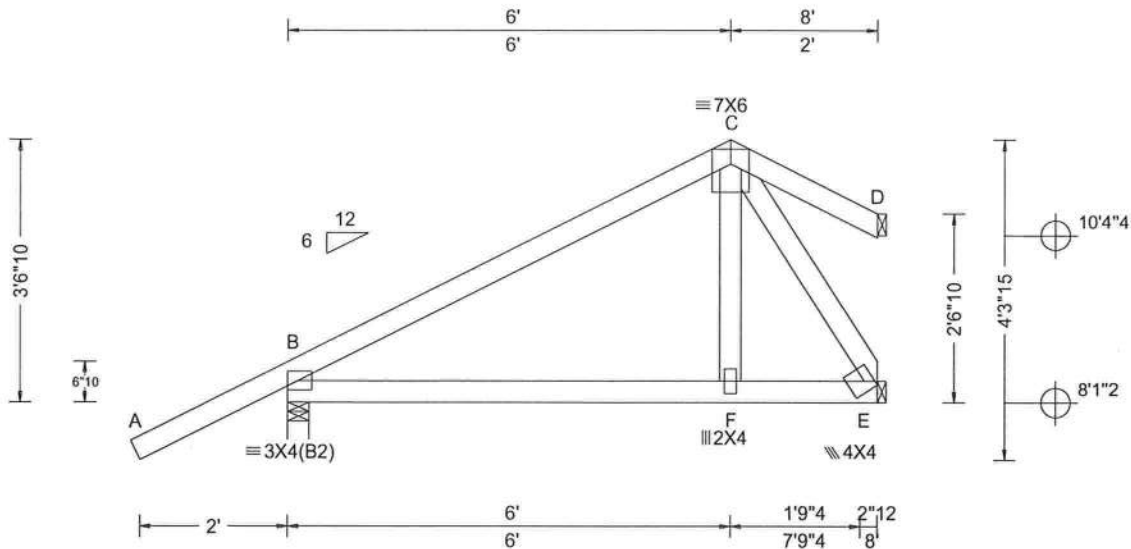
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105800 FROM: RNB	EJAC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: EJ6	Cust: R 857 JRef: 1XdX8570001 T27 DrwNo: 077.22.1524.52713 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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 F 999 360 VERT(CL): 0.002 B 999 240 HORZ(LL): 0.003 B HORZ(TL): 0.004 B Creep Factor: 2.0 Max TC CSI: 0.388 Max BC CSI: 0.197 Max Web CSI: 0.087 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw - / U / RL Non Gravity B 444 / / / /291 /92 /101 E 229 / / / /146 /26 / D 57 / / / /33 /31 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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;

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:

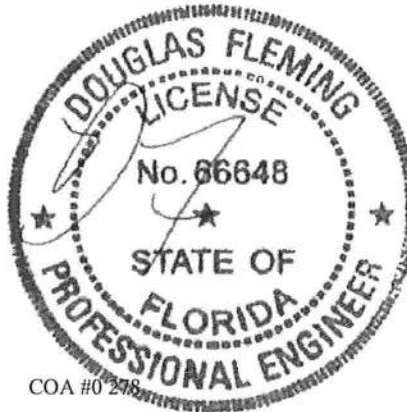
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	6.00
TC	27	6.00	8.00
BC	93	0.13	7.91

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

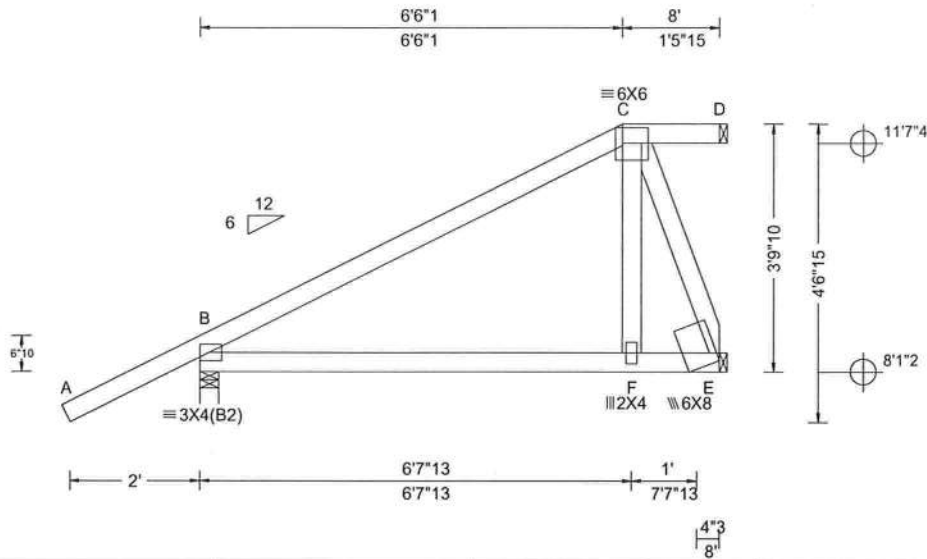
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105797 FROM: RNB	EJAC Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: EJ7	Cust: R 857 JRRef: 1XdX8570001 T55 DrwNo: 077.22.1524.49767 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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 F 999 360 VERT(CL): 0.003 B 999 240 HORZ(LL): 0.004 B HORZ(TL): 0.007 B Creep Factor: 2.0 Max TC CSI: 0.432 Max BC CSI: 0.247 Max Web CSI: 0.112 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non Gravity B 444 / / / /298 /77 /145 E 243 / / /158 /57 / D 42 / / /13 /19 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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;

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:

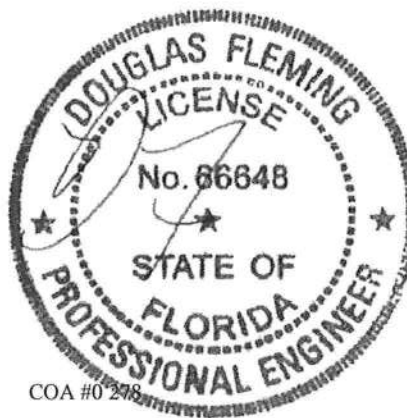
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	6.50
TC	24	6.50	8.00
BC	93	0.13	7.92

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

03/18/2022

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

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

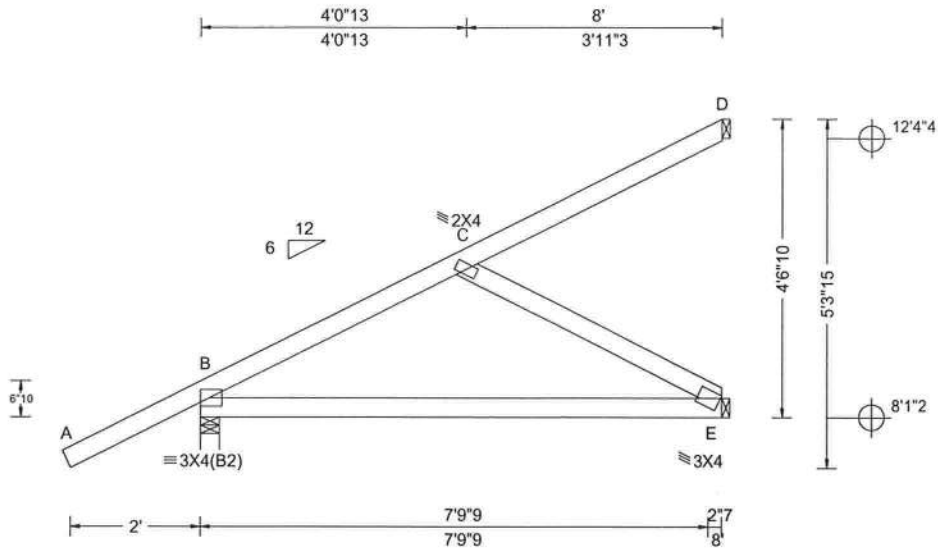
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105622 FROM: RNB	EJAC Qty: 23	Ply: 1 Truss Label: EJ8	Job Number: B55151a Thorton Res	Cust: R 857 JRef: 1XdX8570001 T31 DrwNo: 077.22.1524.46827 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.006 C 999 360 VERT(CL): 0.010 C 999 240 HORZ(LL): 0.004 E HORZ(TL): 0.009 B Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.448 Max Web CSI: 0.112 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw - / U - / RL Non Gravity B 443 / / /294 /64 /171 E 195 / / /140 /29 / D 94 / / /55 /58 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 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;

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	2.07	8.00
BC	75	0.13	7.84

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

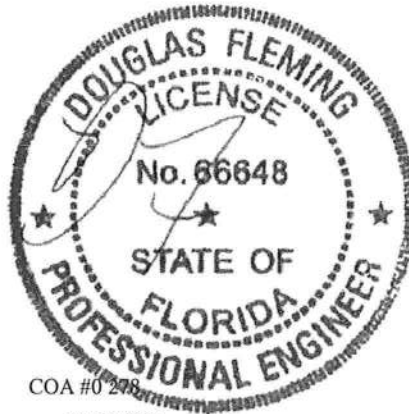
Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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

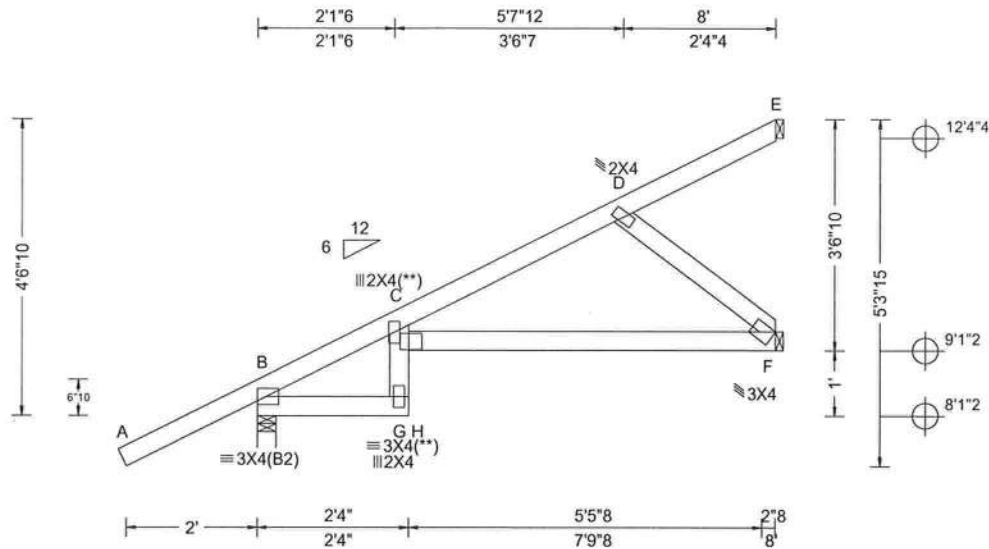
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SEQN: 105628 FROM: RNB	EJAC Ply: 1 Qty: 3	Job Number: B55151a Thorton Res Truss Label: EJ8A	Cust: R 857 JRef: 1XdX8570001 T33 DrwNo: 077.22.1524.41413 KD / DF 03/18/2022
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Loading Criteria (psf)	Wind 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.085 G 999 360 VERT(CL): 0.139 G 686 240 HORZ(LL): 0.047 C HORZ(TL): 0.085 C Creep Factor: 2.0 Max TC CSI: 0.454 Max BC CSI: 0.306 Max Web CSI: 0.305 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 442 / / /294 /64 /171 F 278 / / /193 /72 / E 18 /33 / /5 /16 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 1.5 E Brg Wid = 1.5 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;

Plating Notes

(**) 2 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	2.07	8.00
BC	25	0.13	2.19
BC	69	2.14	7.88

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0248

03/18/2022

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

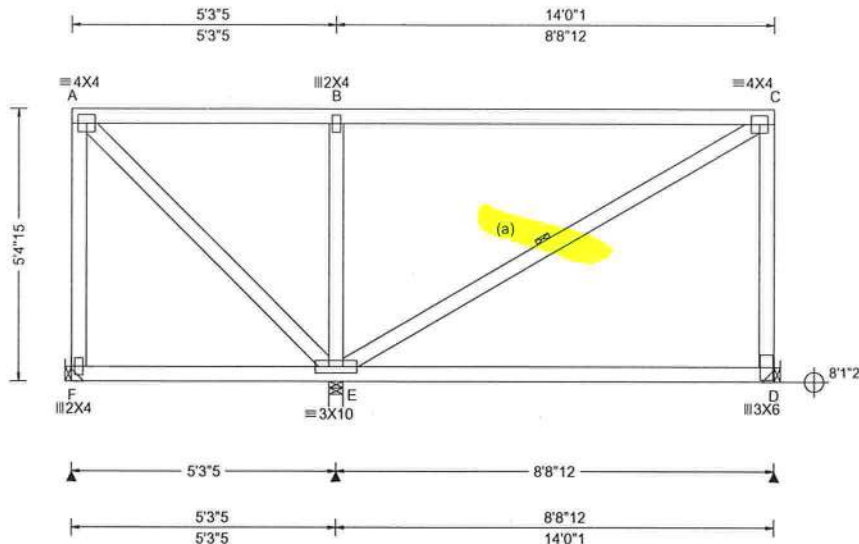
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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6750 Forum Drive
Suite 305
Orlando FL, 32821



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 10.50 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 7th Ed. 2020 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): 0.002 B 999 360 VERT(CL): 0.004 B 999 240 HORZ(LL): 0.001 A HORZ(TL): 0.002 A Creep Factor: 2.0 Max TC CSI: 0.876 Max BC CSI: 0.522 Max Web CSI: 0.579 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R- / Rh / Rw / U / RL F 124 / 11 / / /62 /44 /165 E 711 / / / /357 /177 / D 262 / / / /141 /65 / Wind reactions based on MWFRS F Brg Wid = Min Req = E Brg Wid = 3.5 D Brg Wid = 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;

THIS TRUSS MUST BE INSTALLED AS SHOWN
AND NOT END FOR END.

B E 582 496

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	120	0.00	14.00
BC	120	0.00	14.00

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.

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

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



03/18/2022

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105686	FLAT	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T7
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1524.33620
Page 2 of 2			Truss Label: FT1	KD / DF 03/18/2022

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong Tie. Please refer to the most recent Simpson Strong Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing F (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

Bearing D (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



COA #0 218

03/18/2022

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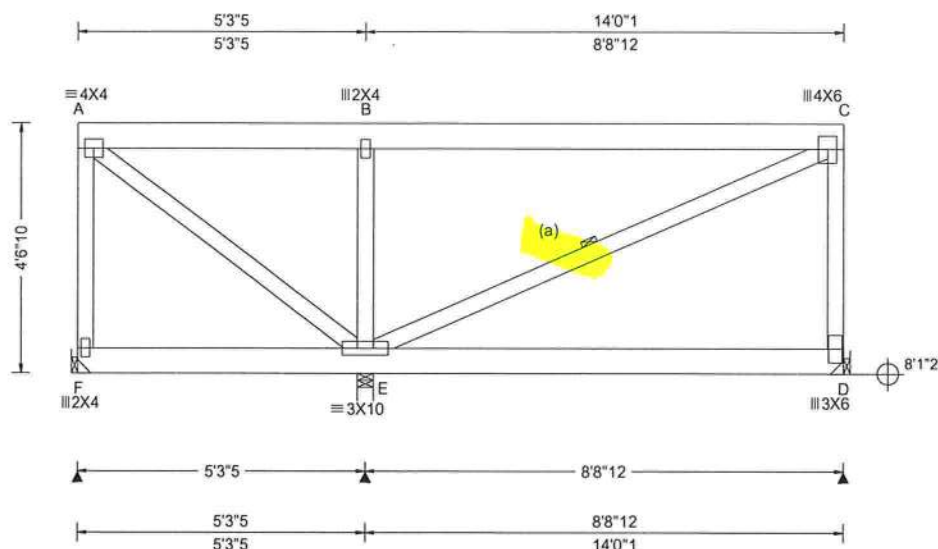
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6750 Forum Drive
Suite 305
Orlando FL, 32821



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.003 B 999 360 VERT(CL): 0.005 B 999 240 HORZ(LL): 0.001 D HORZ(TL): 0.001 D Creep Factor: 2.0 Max TC CSI: 0.483 Max BC CSI: 0.704 Max Web CSI: 0.242 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL F 106 / / / / / E 1675 / / / /494 / D 500 / / / /129 / Wind reactions based on MWFRS F Brg Wid = Min Req = E Brg Wid = 3.5 D Brg Wid = Bearing E Fcperp = 425psi. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B E 387 676

Lumber

Top chord: 2x6 SP #1;
Bot chord: 2x6 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.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 27 plf at 0.00 to 27 plf at 14.00
BC: From 10 plf at 0.00 to 10 plf at 14.00
TC: 94 lb Conc. Load at 2.06, 4.06, 6.06, 7.94, 9.94, 11.94
BC: 195 lb Conc. Load at 2.06, 4.06, 6.06, 7.94, 9.94, 11.94

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	120	0.00	14.00
BC	120	0.00	14.00

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

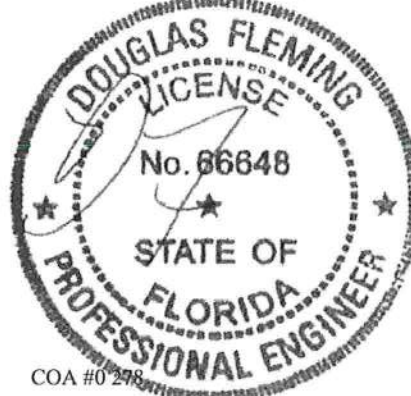
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/180.

Additional Notes

Truss must be installed as shown with top chord up.
THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



COA #0 278

03/18/2022

****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: alpineitw.com; TPI: tpinst.org; SBCEA: sbceacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 105682	FLAT	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T61
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1524.22693
Page 2 of 2			Truss Label: FTG1	KD / DF 03/18/2022

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong Tie. Please refer to the most recent Simpson Strong Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing F (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

Bearing D (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



COA #0218

03/18/2022

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

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

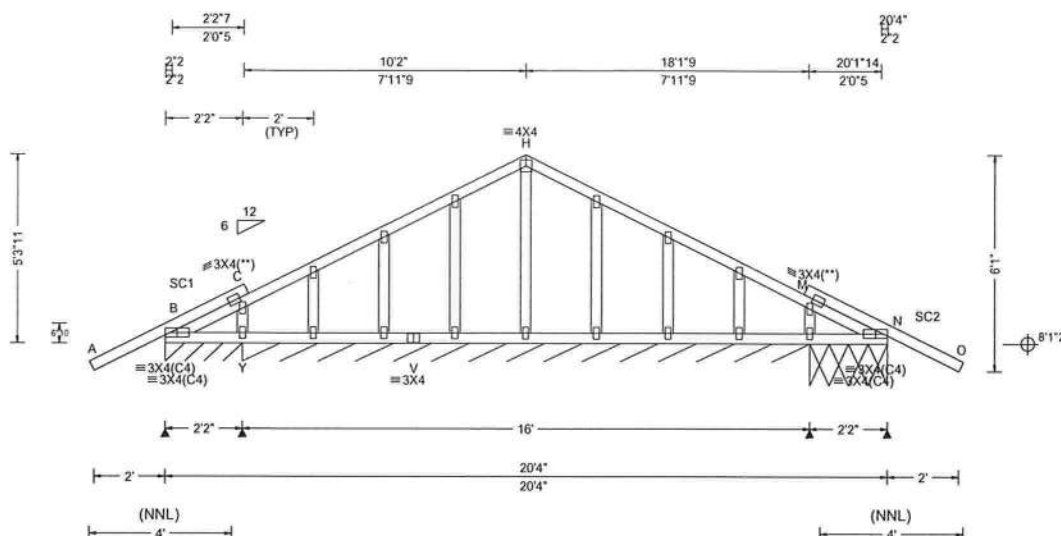
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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SEQN: 105611 FROM: RNB	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thornton Res Truss Label: GE1	Cust: R 857 JRef: 1XdX8570001 T35 DrwNo: 077.22.1524.05730 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.002 N 999 360 VERT(CL): 0.004 N 808 240 HORZ(LL): 0.001 N HORZ(TL): 0.001 N Creep Factor: 2.0 Max TC CSI: 0.318 Max BC CSI: 0.225 Max Web CSI: 0.055 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R- / Rh / Rw / U- / RL Non Gravity B* 207 / / /131 /35 /50 Y* 103 / / /44 / / / N* 185 / / /147 /65 / Wind reactions based on MWFRS B Brg Wid = 26.0 Min Req = Y Brg Wid = 191 Min Req = N Brg Wid = 26.0 Min Req = Bearings B, Y, & P 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;
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.

(**) 2 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	54	2.07	2.10
TC	75	0.00	10.17
TC	75	10.17	20.33
TC	54	18.23	22.40
BC	75	0.00	20.33

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). Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.



COA #0 210

03/18/2022

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

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

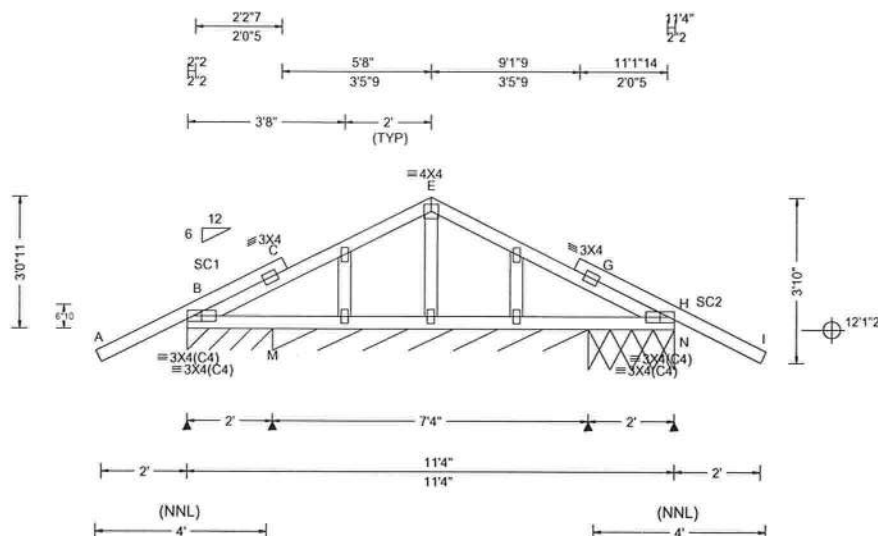
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SEQN: 105826 FROM: RNB	GABL Qty: 1	Ply: 1 Job Number: B55151a Thorton Res Truss Label: GE2	Cust: R 857 JRef: 1XdX8570001 T10 DrwNo: 077.22.1524.00107 KD / DF 03/18/2022
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Loading Criteria (psf)	Wind 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.004 C 999 360 VERT(CL): 0.009 C 999 240 HORZ(LL): 0.003 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.381 Max BC CSI: 0.241 Max Web CSI: 0.029 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B* 193 / / /144 /114 /54 M* 94 / / /43 / / N* 193 / / /153 /114 / Wind reactions based on MWFRS B Brg Wid = 24.0 Min Req = M Brg Wid = 88.0 Min Req = N Brg Wid = 24.0 Min Req = Bearings B, M, & G 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;
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	53	2.07	2.00
TC	75	0.00	5.67
TC	75	5.67	11.33
TC	53	9.33	13.40
BC	75	0.00	11.33

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

Loading

Truss designed to support 140 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). Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.



03/18/2022

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

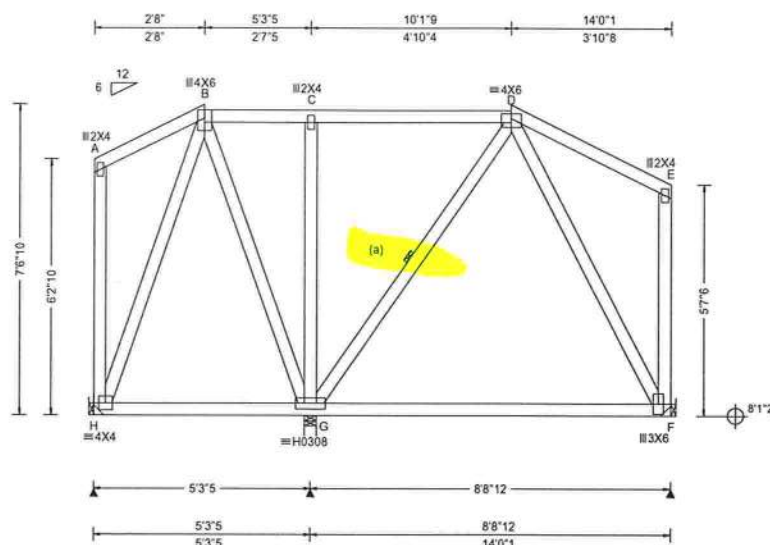
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.002 C 999 360 VERT(CL): 0.003 C 999 240 HORZ(LL): 0.002 A HORZ(TL): 0.004 A Creep Factor: 2.0 Max TC CSI: 0.230 Max BC CSI: 0.525 Max Web CSI: 0.811 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL H 161 / / /78 /34 /236 G 622 / / /308 /81 / F 297 / / /161 /46 / Wind reactions based on MWFRS H Brg Wid = Min Req = G Brg Wid = 3.5 F Brg Wid = Bearing G 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;

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	35	0.00	2.67
TC	24	2.67	10.13
TC	52	10.13	14.00
BC	120	0.00	14.00

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

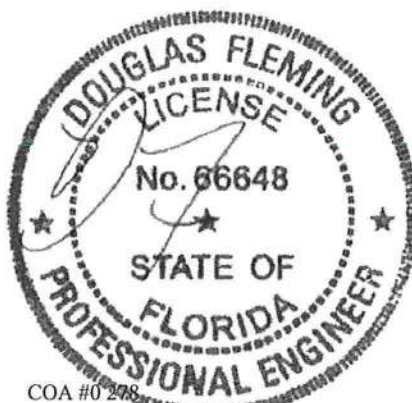
Wind

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

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0298
03/18/2022

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Hangers / Ties

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Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing H (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

Bearing F (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



COA #0248

03/18/2022

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

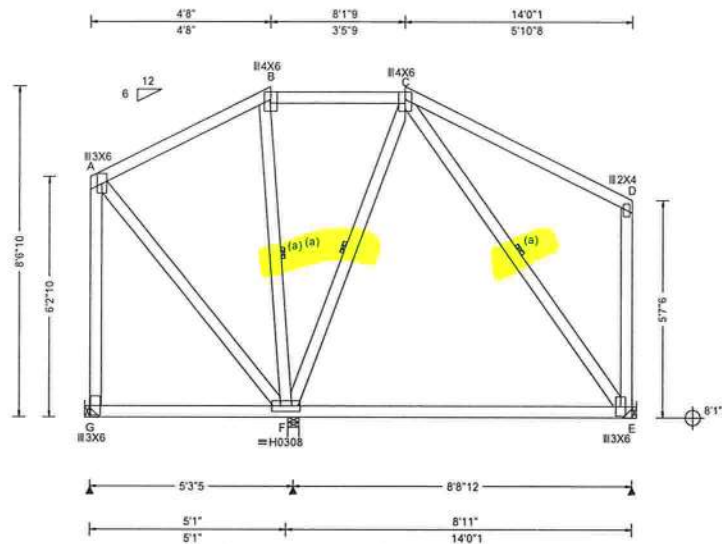
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.18 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.002 B 999 360 VERT(CL): 0.004 F 999 240 HORZ(LL): 0.003 B HORZ(TL): 0.004 B Creep Factor: 2.0 Max TC CSI: 0.472 Max BC CSI: 0.639 Max Web CSI: 0.830 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL G 178 / 50 / / /33 /131 /262 F 705 / / / /404 / / E 317 / / / /125 /91 / Wind reactions based on MWFRS G Brg Wid = Min Req = F Brg Wid = 3.5 E Brg Wid = 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;

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	62	0.00	4.67
TC	24	4.67	8.13
TC	75	8.13	14.00
BC	75	0.00	14.00

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.

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0 248
03/18/2022

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Hangers / Ties

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Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

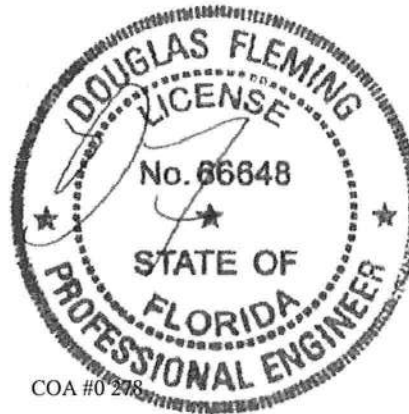
Bearing at location x=0' uses the following support conditions: 0'

Bearing G (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bearing E (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.



COA #0 298

03/18/2022

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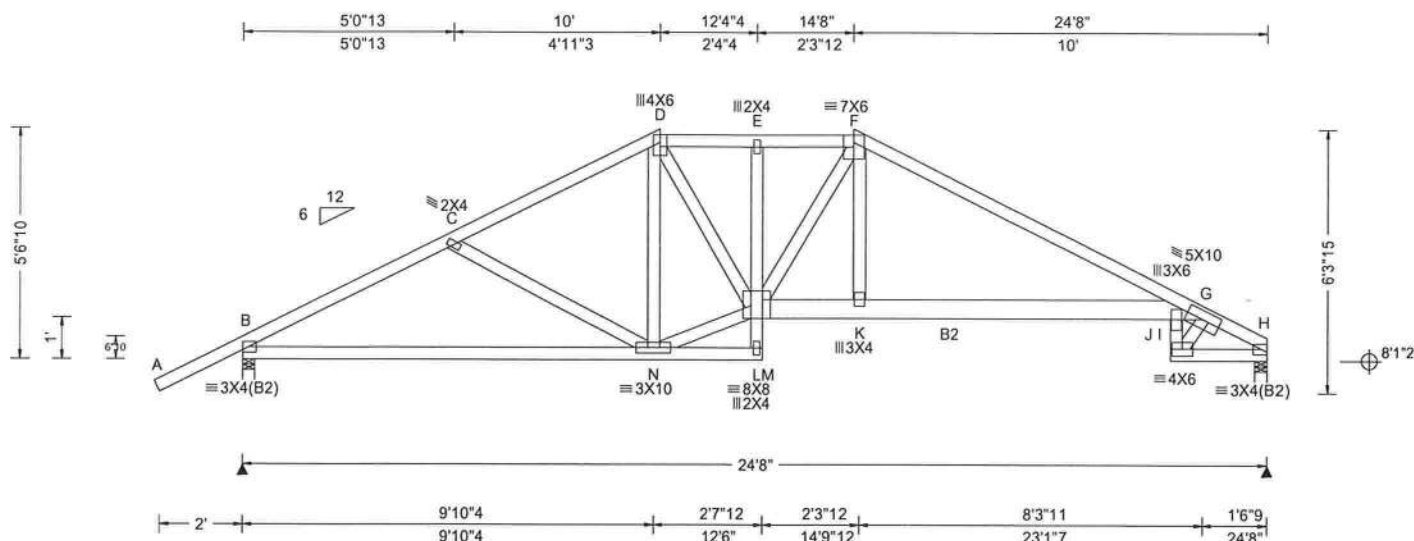
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SEQN: 105671 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: H10A	Cust: R 857 JRef: 1XdX8570001 T22 DrwNo: 077.22.1523.58077 KD / DF 03/18/2022
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Loading Criteria (psf)	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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.259 J 999 360 VERT(CL): 0.483 J 610 240 HORZ(LL): 0.151 H HORZ(TL): 0.281 H Creep Factor: 2.0 Max TC CSI: 0.998 Max BC CSI: 0.985 Max Web CSI: 0.740 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R- / Rh / Rw / U / RL B 1063 / / / /608 /216 /225 H 927 / / / /503 /169 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 H Brg Wid = 3.5 Min Req = 1.5 Bearings B & 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 629 1517 E F 725 1425 C D 548 1265 F G 745 1817 D E 724 1424 G H 686 1509

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 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:

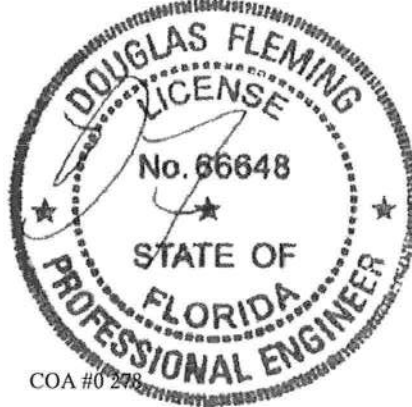
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	54	2.07	10.00
TC	24	10.00	14.67
BC	120	0.13	12.35
BC	81	12.35	23.18
BC	26	22.33	24.54

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

03/18/2022

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ALPINE
AN ITW COMPANY
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Orlando FL, 32821



Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong Tie. Please refer to the most recent Simpson Strong Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=38'4"9 uses the following support conditions: 38'4"9

Bearing K (38'4"9, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



COA #0 248

03/18/2022

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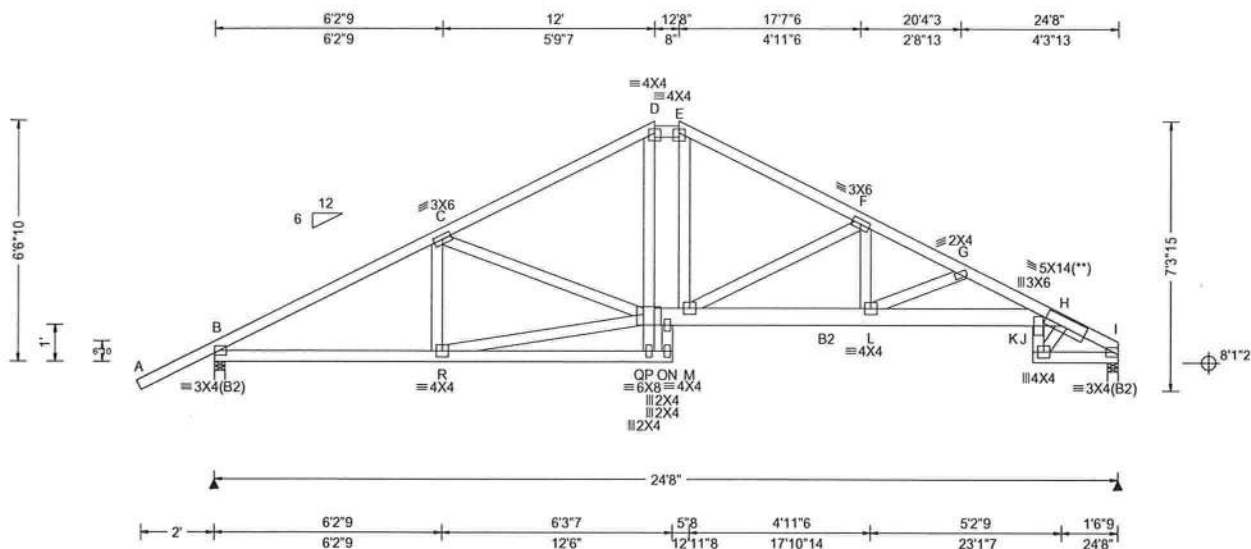
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.161 K 999 360 VERT(CL): 0.300 K 980 240 HORZ(LL): 0.107 I HORZ(TL): 0.198 I Creep Factor: 2.0 Max TC CSI: 0.986 Max BC CSI: 0.855 Max Web CSI: 0.555 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1063 / / /607 /214 /251 I 927 / / /502 /167 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 I Brg Wid = 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 430 1528 F G 651 2112 C D 464 1345 G H 730 2365 D E 473 1136 H I 381 1224 E F 486 1344

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 SP #1;
Webs: 2x4 SP #3;

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	53	2.07	12.00
TC	24	12.00	12.67
TC	41	12.67	24.60
BC	120	0.13	12.50
BC	120	11.88	23.18
BC	26	22.33	24.54

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 #0298

03/18/2022

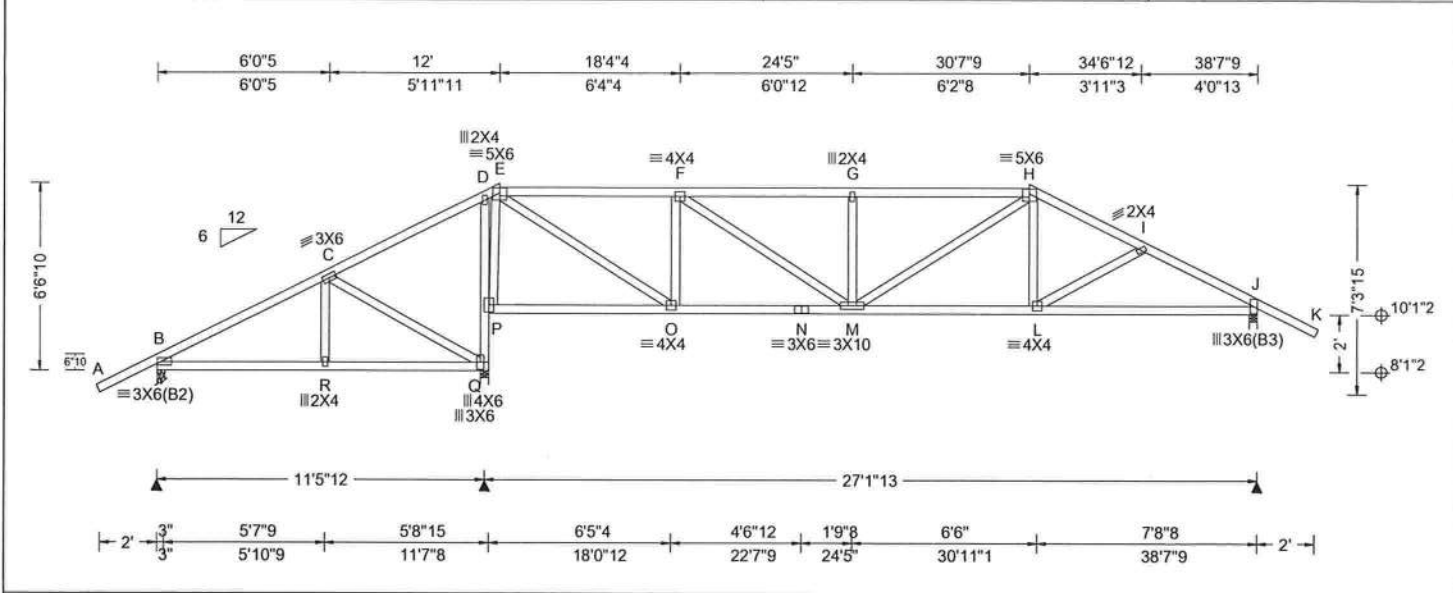
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B R	1288 424	L J	2139 679
P O	1098 311	K I	941 287
O M	1136 303	J H	2126 655
M L	1818 535		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R P	1258 405	F L	525 80
P D	417 68	K J	1252 414
M F	263 763	K H	572 1673

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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.093 G 999 360 VERT(CL): 0.173 G 999 240 HORZ(LL): 0.024 O HORZ(TL): 0.044 O Creep Factor: 2.0 Max TC CSI: 0.988 Max BC CSI: 0.537 Max Web CSI: 0.666 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 541 / / /315 /153 /249 Q 1499 / / /844 /233 / J 1150 / / /695 /250 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 Q Brg Wid = 3.5 Min Req = 1.9 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, 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.

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	2.07	12.00
TC	24	12.00	30.63
TC	43	30.63	40.69
BC	120	0.13	11.33
BC	120	11.36	38.50

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

Wind

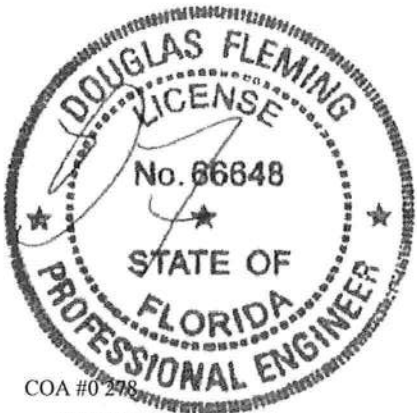
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O N	1284 606	M L	1372 546
N M	1284 606	L J	1440 616

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C Q	148 458	O F	447 651
Q P	554 1224	F M	499 198
P E	438 1036	M H	384 296
E O	1387 622		



COA #0 278
03/18/2022

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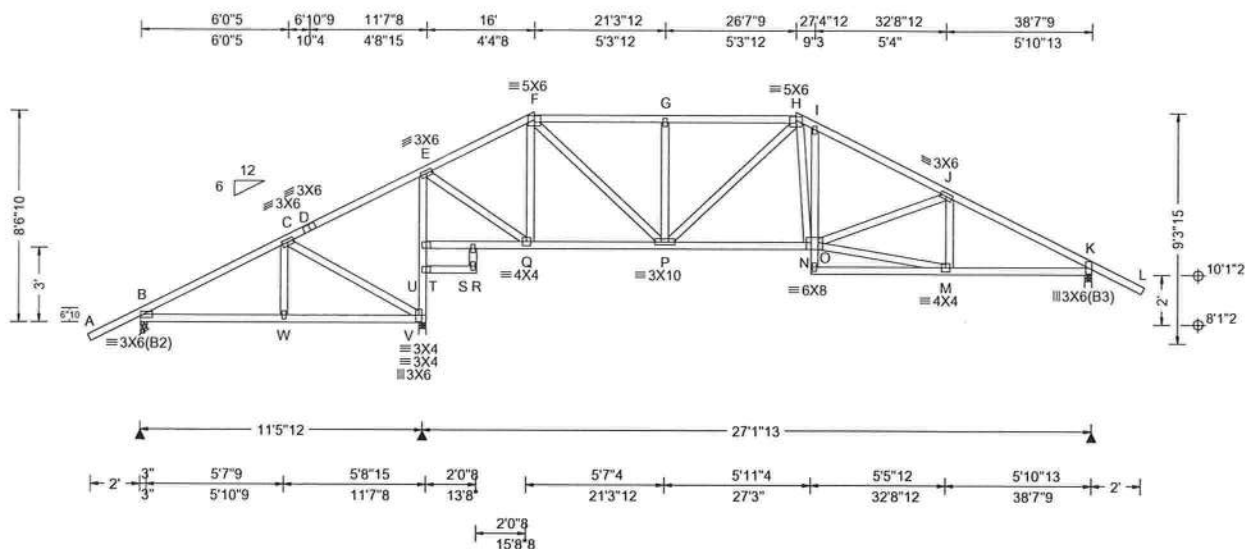
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.082 I 999 360 VERT(CL): 0.152 I 999 240 HORZ(LL): 0.022 K HORZ(TL): 0.044 K Creep Factor: 2.0 Max TC CSI: 0.976 Max BC CSI: 0.591 Max Web CSI: 0.546 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non Gravity B 543 / / / 268 /90 /338 V 1500 / / / 932 /157 / K 1149 / / / 730 /81 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 V Brg Wid = 3.5 Min Req = 1.9 K Brg Wid = 3.5 Min Req = 1.5 Bearings B, V, & K 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;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

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	75	2.07	16.00
TC	24	16.00	26.63
TC	49	26.63	40.69
BC	120	0.13	11.33
BC	27	11.41	13.67
BC	75	11.45	27.41
BC	120	27.40	38.50

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.
Q P	721 188	M K	1443 460
P N	1329 391		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C V	139 470	Q F	222 431
V U	465 1218	F P	757 302
T U	476 1185	H N	559 192
T E	481 1174	N M	1435 435
E Q	894 268		

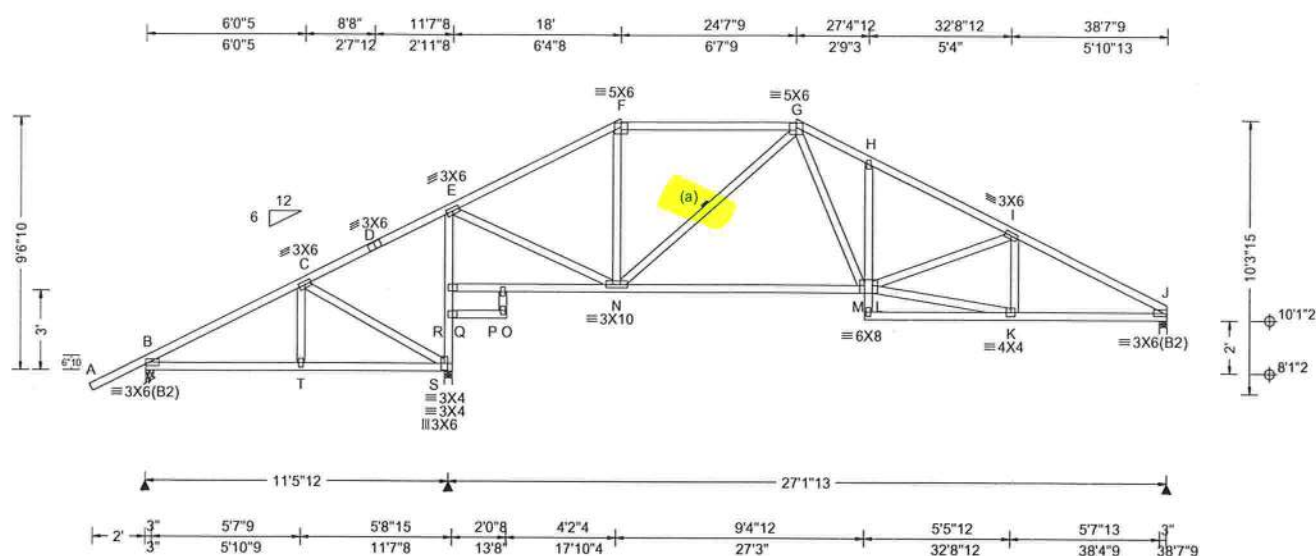
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7 16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non Gravity
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.078 H 999 360	Loc R+ / R / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.147 H 999 240	B 543 / / /262 /85 /329
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.021 J	S 1508 / / /945 /150 /
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.044 J	J 1019 / / /626 /53 /
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.992	B Brg Wid = 3.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 6.0 psf	TPI Std: 2014	Max BC CSI: 0.653	S Brg Wid = 3.5 Min Req = 1.9
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.571	J Brg Wid = 3.5 Min Req = 1.5
	C&C Dist a: 3.86 ft	FT/RT:20(0)/0(0)		Bearings B, S, & J Fcperp = 425psi
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.03A.0805.15	Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60			Chords Tens.Comp. Chords Tens.Comp

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

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	71	2.07	18.00
TC	24	18.00	24.63
TC	52	24.63	38.56
BC	120	0.13	11.33
BC	27	11.41	13.67
BC	75	11.45	27.41
BC	75	27.40	38.50

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 #0 278

03/18/2022

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

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

▲ Maximum Reactions (lbs)						
	Gravity			Non Gravity		
Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
B	543	/	/	/262	/85	/329
S	1508	/	/	/945	/150	/
J	1019	/	/	/626	/53	/

Wind reactions based on MWFRS
 B Brg Wid = 3.5 Min Req = 1.5
 S Brg Wid = 3.5 Min Req = 1.9
 J Brg Wid = 3.5 Min Req = 1.5
 Bearings B, S, & J Fcperp = 425psi.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

[illegible]

Order	Trans.	Comp.	Order	Trans.	Comp.
B C	195	492	G H	712	1607
E F	471	1004	H I	636	1656
F G	472	834	I J	565	1745

Maximum Bot Chord Forces Per Ply (lbs)

[illegible]

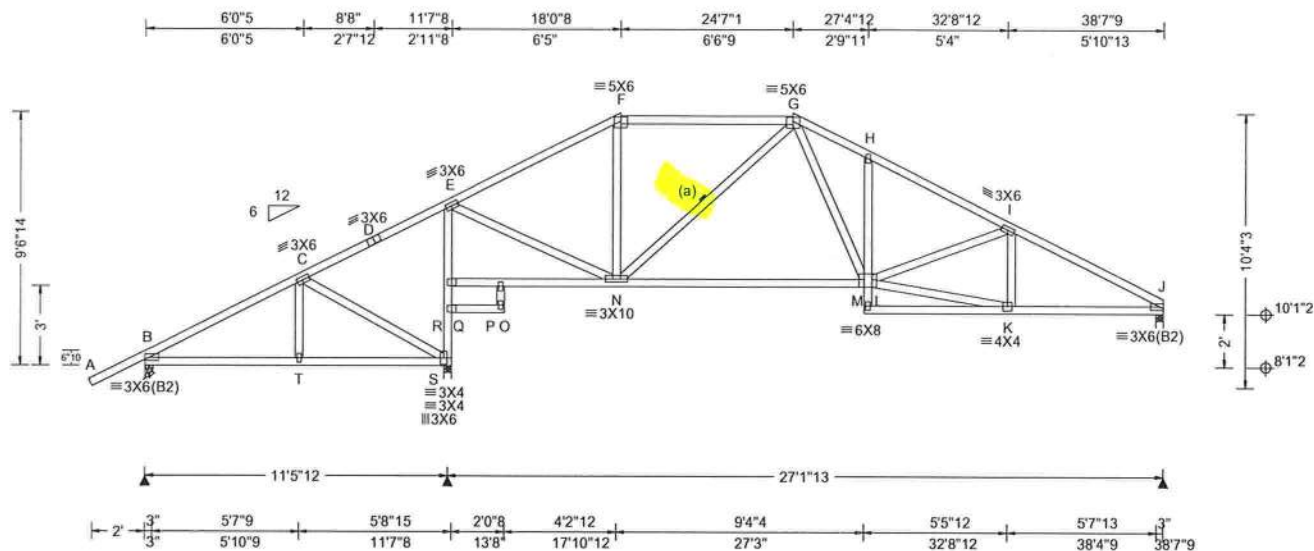
Energy		Fens. Comp.		Energy		Fens. Comp.	
N	L	1117	292	K	J	1488	441

Maximum Web Forces Per Ply (lbs)

maximum Web Forces Per Fly (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Webb	Refs.	Comp.	Webb	Refs.	Comp.
C S	135	470	E N	948	268
S R	457	1232	N G	173	395
Q R	469	1200	G L	739	194
Q E	478	1186	L K	1499	407

SEQN: 105764 FROM: RNB	HIPS Qty: 1	Ply: 1 Job Number: B55151a Thorton Res Truss Label: H18B	Cust: R 857 JRef: 1XdX8570001 T57 DrwNo: 077.22.1523.34207 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.078 H 999 360 VERT(CL): 0.147 H 999 240 HORZ(LL): 0.021 J HORZ(TL): 0.044 J Creep Factor: 2.0 Max TC CSI: 0.992 Max BC CSI: 0.648 Max Web CSI: 0.571 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 543 / / / /262 /85 /330 S 1508 / / / /946 /150 / J 1019 / / / /626 /53 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 S Brg Wid = 3.5 Min Req = 1.9 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, S, & J 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;
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

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	71	2.07	18.04
TC	24	18.04	24.59
TC	52	24.59	38.56
BC	120	0.13	11.33
BC	27	11.41	13.67
BC	75	11.45	27.41
BC	75	27.40	38.50

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.
N L	1112 289	K J	1488 440

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C S	134 470	E N	947 266
S R	456 1233	N G	172 390
Q R	468 1200	G L	744 198
Q E	477 1186	L K	1498 405

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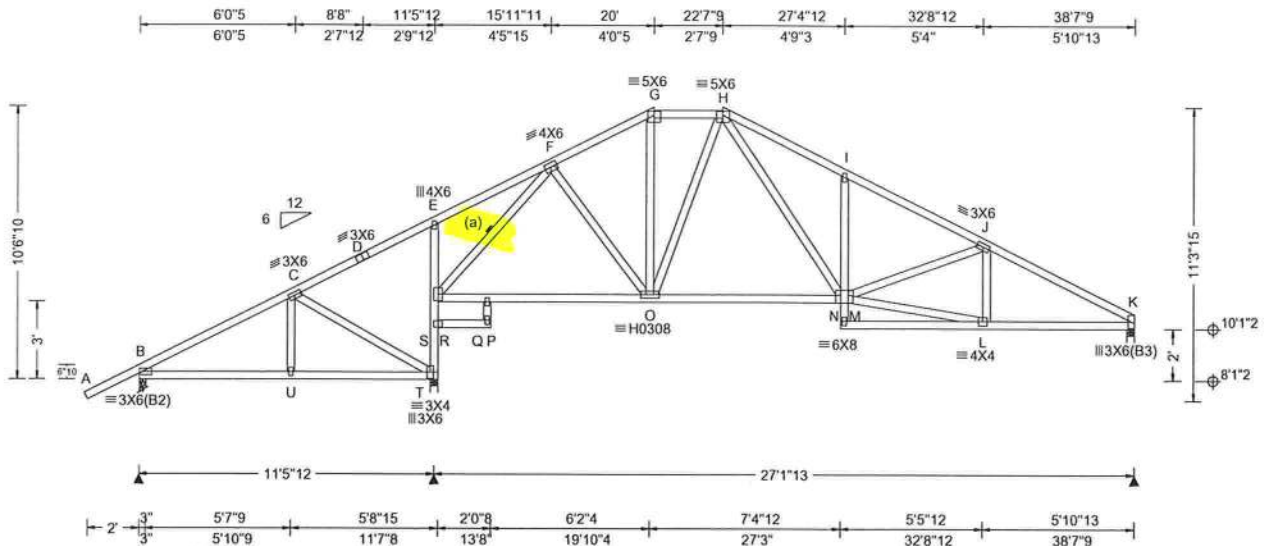
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105774 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: H20A	Cust: R 857 JRef: 1XdX8570001 T53 DrwNo: 077.22.1523.30420 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.083 I 999 360 VERT(CL): 0.155 I 999 240 HORZ(LL): 0.022 K HORZ(TL): 0.045 K Creep Factor: 2.0 Max TC CSI: 0.984 Max BC CSI: 0.573 Max Web CSI: 0.660 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL B 546 / / / /257 /93 /356 T 1486 / / / /953 /84 / K 1025 / / / /629 /49 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 T Brg Wid = 3.5 Min Req = 1.9 K Brg Wid = 3.5 Min Req = 1.5 Bearings B, T, & K 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;
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

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	75	2.07	20.00
TC	24	20.00	22.63
TC	51	22.63	38.56
BC	120	0.13	11.33
BC	28	11.36	13.67
BC	120	11.38	27.41
BC	120	27.40	38.50

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

Wind

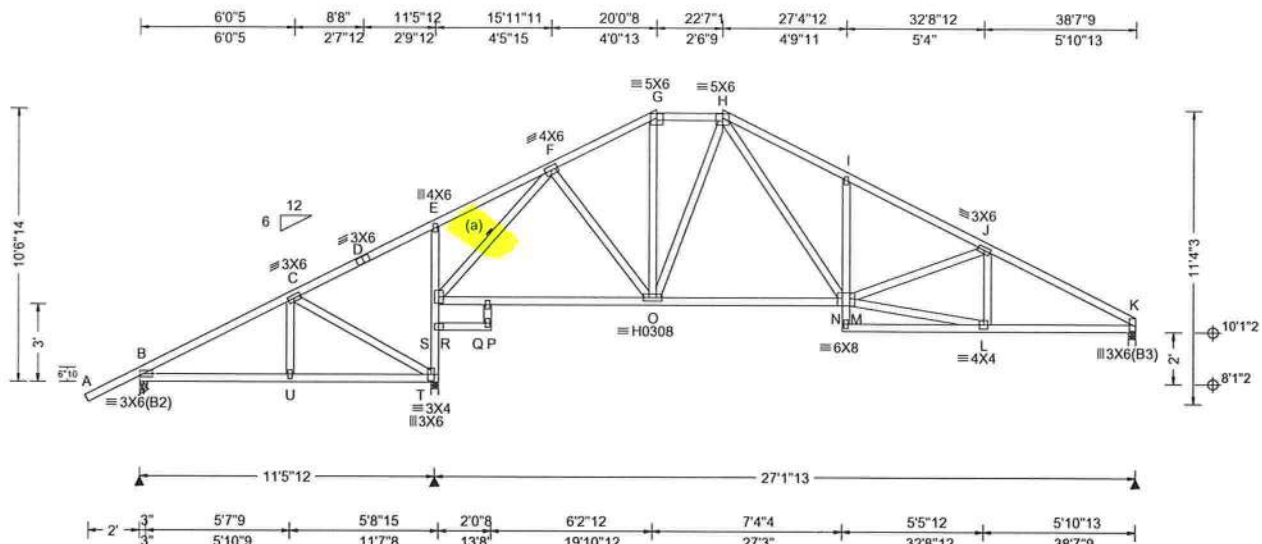
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



COA #0 248
03/18/2022

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Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B U 377 157 O M 936 158 R Q 744 150 L K 1497 374 Q O 720 154			
Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C T 140 466 R F 310 1126 T S 366 1207 H M 908 299 R S 389 1172 M L 1493 349			
ALPINE ANTW COMPANY 6750 Forum Drive Suite 305 Orlando FL, 32821			

SEQN: 105776 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: H20B	Cust: R 857 JRef: 1XdX8570001 T49 DrwNo: 077.22.1523.27430 KD / DF 03/18/2022
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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 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.083 I 999 360 VERT(CL): 0.148 Q 999 240 HORZ(LL): 0.022 K HORZ(TL): 0.045 K Creep Factor: 2.0 Max TC CSI: 0.987 Max BC CSI: 0.573 Max Web CSI: 0.660 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R- / Rh- / Rw / U / RL Non Gravity Loc R+ / R- / Rh- / Rw / U / RL B 546 / / / /256 /93 /357 T 1486 / / / /953 /84 / K 1025 / / / /629 /49 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 T Brg Wid = 3.5 Min Req = 1.9 K Brg Wid = 3.5 Min Req = 1.5 Bearings B, T, & K 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;
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

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:

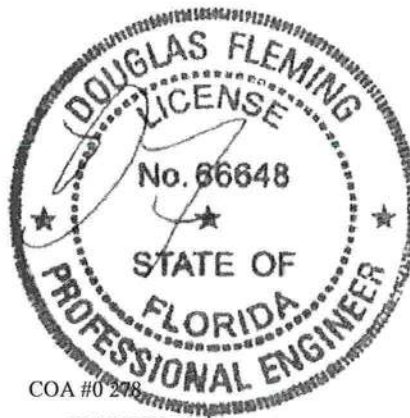
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	20.04
TC	24	20.04	22.59
TC	51	22.59	38.56
BC	120	0.13	11.33
BC	28	11.36	13.67
BC	120	11.38	27.41
BC	120	27.40	38.50

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 U	377 157	O M	933 155
R Q	744 149	L K	1497 372
Q O	720 154		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C T	140 466	R F	309 1126
T S	365 1207	H M	911 301
R S	387 1171	M L	1493 348

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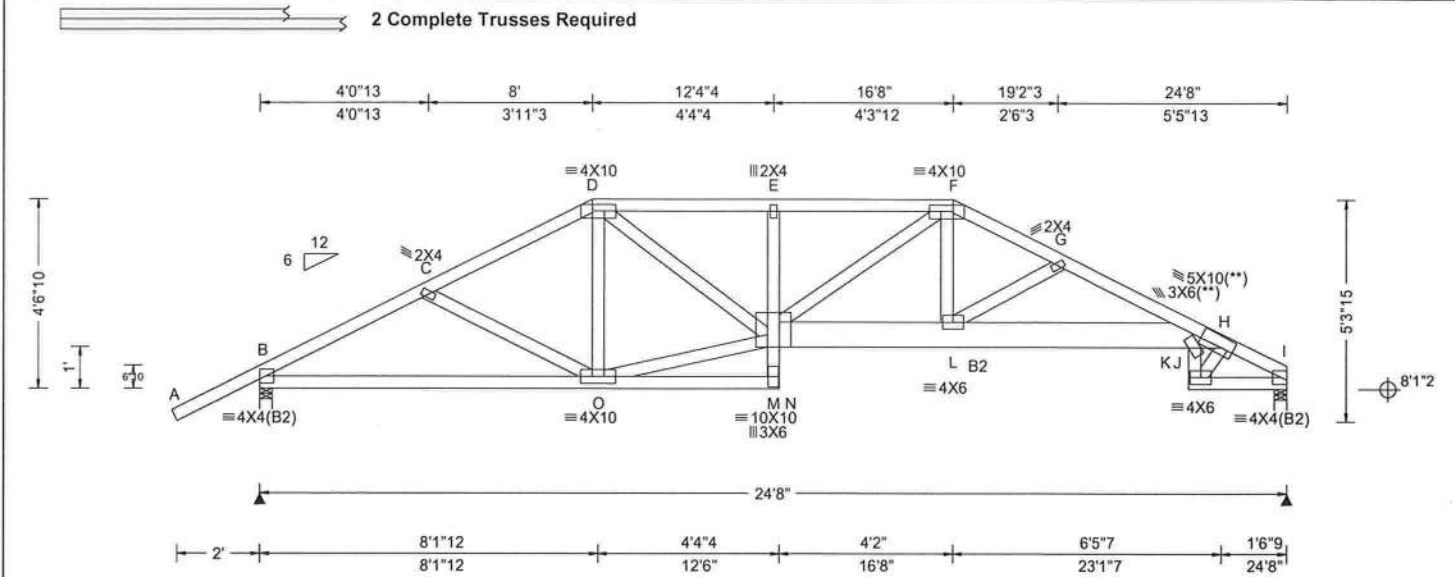
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



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: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.186 E 999 360 VERT(CL): 0.345 E 853 240 HORZ(LL): 0.115 I HORZ(TL): 0.213 I Creep Factor: 2.0 Max TC CSI: 0.998 Max BC CSI: 0.603 Max Web CSI: 0.732 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 2326 / / / / /590 /21 I 2189 / / / / /529 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.6 I Brg Wid = 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 521 2013 F G 710 2838 C D 495 1983 G H 766 2981 D E 735 2863 H I 413 1638 E F 738 2874

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x8 SP SS Dense;
Webs: 2x4 SP #3;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 56 plf at 2.13 to 56 plf at 8.00	TC: From 28 plf at 8.00 to 28 plf at 16.67
TC: From 56 plf at 16.67 to 56 plf at 24.67	BC: From 4 plf at 2.13 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.03	BC: From 10 plf at 8.03 to 10 plf at 16.64
BC: From 20 plf at 16.64 to 20 plf at 24.67	TC: 220 lb Conc. Load at 8.03
TC: 94 lb Conc. Load at 10.06,12.06	TC: 18 lb Conc. Load at 12.60,14.60
TC: 22 lb Conc. Load at 16.64	BC: 625 lb Conc. Load at 8.03
BC: 195 lb Conc. Load at 10.06,12.06	BC: 278 lb Conc. Load at 12.60,14.60
BC: 816 lb Conc. Load at 16.64	

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Plating Notes
(**) 2 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.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B O	1735 433	K I	1325 339
M L	2520 631	J H	2462 637
L J	2675 686		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D M	1331 364	F L	948 207
O M	1746 427	K J	1728 431
M F	435 136	K H	598 2344

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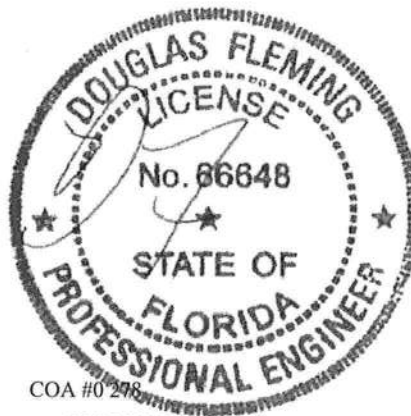
SEQN: 105659	HIPS	Ply: 2	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T11
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1523.13747
Page 2 of 2			Truss Label: HG8A	KD / DF 03/18/2022

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	2.07	8.00
TC	24	8.00	16.67
TC	52	16.67	24.60
BC	120	0.13	12.35
BC	120	12.35	23.18
BC	26	22.33	24.54

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



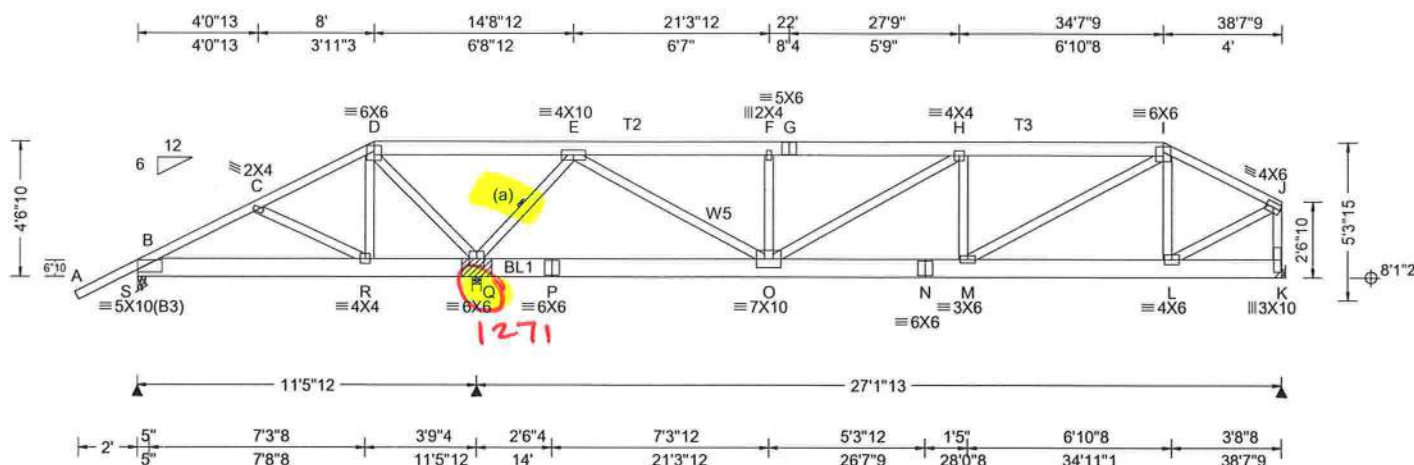
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.86 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.101 H 999 360 VERT(CL): 0.188 H 999 240 HORZ(LL): 0.015 I HORZ(TL): 0.029 I Creep Factor: 2.0 Max TC CSI: 0.957 Max BC CSI: 0.642 Max Web CSI: 0.992 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL S 164 / 193 / / / /14 /74 Q 4752 / / / / /1271 / K 2227 / / / / /581 / Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.5 Q Brg Wid = 3.5 Min Req = K Brg Wid = Bearings S & Q 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; T2,T3 2x6 SP #1;
Bot chord: 2x8 SP SS Dense;
Webs: 2x4 SP #3; W5 2x4 SP #1;

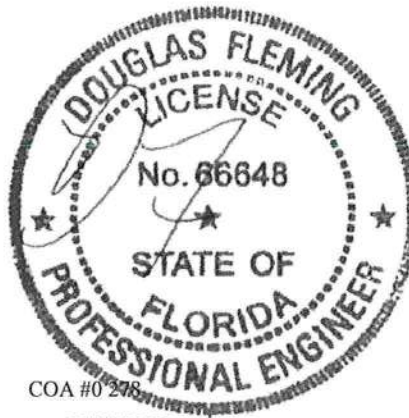
Bracing
(a) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Special Loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 2.13 to 56 plf at 8.00
TC: From 28 plf at 8.00 to 28 plf at 38.63
BC: From 4 plf at 2.13 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.03
BC: From 10 plf at 8.03 to 10 plf at 38.63
TC: 220 lb Conc. Load at 8.03
TC: 94 lb Conc. Load at 10.06,12.06,14.06,16.06
18.06,20.06,22.06,24.06,26.06,28.06,30.06,32.06
34.06
TC: 42 lb Conc. Load at 36.06
TC: 57 lb Conc. Load at 38.06
BC: 625 lb Conc. Load at 8.03
BC: 195 lb Conc. Load at 10.06,12.06,14.06,16.06
18.06,20.06,22.06,24.06,26.06,28.06,30.06,32.06
34.06
BC: 243 lb Conc. Load at 36.06
BC: 229 lb Conc. Load at 38.06

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 120 2.07 8.00
TC 24 8.00 34.63
TC 48 34.63 38.63
BC 75 0.15 38.63
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
(J) Hanger Support Required, by others

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



COA #0 248
03/18/2022

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105802	HIPS	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T28
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1522.50120
Page 2 of 2			Truss Label: HG8B	KD / DF 03/18/2022

Wind

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

Bearing Block(s)

Brg blocks: 0.128"x3", min. nails
brg x loc #blocks length/blk #nails/blk wall plate
2 11.333' 1 12" 16 SPF Standard
Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

Additional Notes

Negative reaction(s) of 193# MAX. from a non wind
load case requires uplift connection. See Maximum
Reactions.



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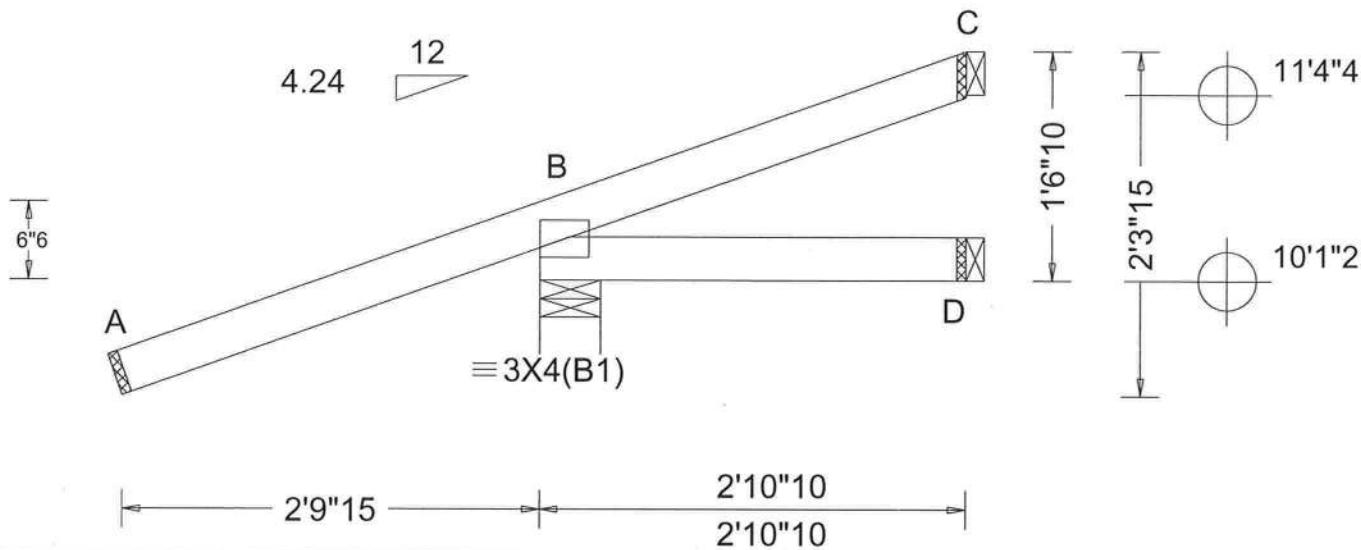
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 105723 FROM: RNB	HIP_	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: HJ3	Cust: R 857 JRef: 1XdX8570001 T4 DrwNo: 077.22.1521.35530 KD / DF 03/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): NA VERT(CL): NA HORZ(LL): 0.001 B HORZ(TL): 0.002 B Creep Factor: 2.0 Max TC CSI: 0.144 Max BC CSI: 0.041 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 167 / / / /44 / D 46 /6 / /5 / / C 0 /23 / /12 / / Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

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	73	2.88	2.89
BC	32	0.20	2.89

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

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



03/18/2022

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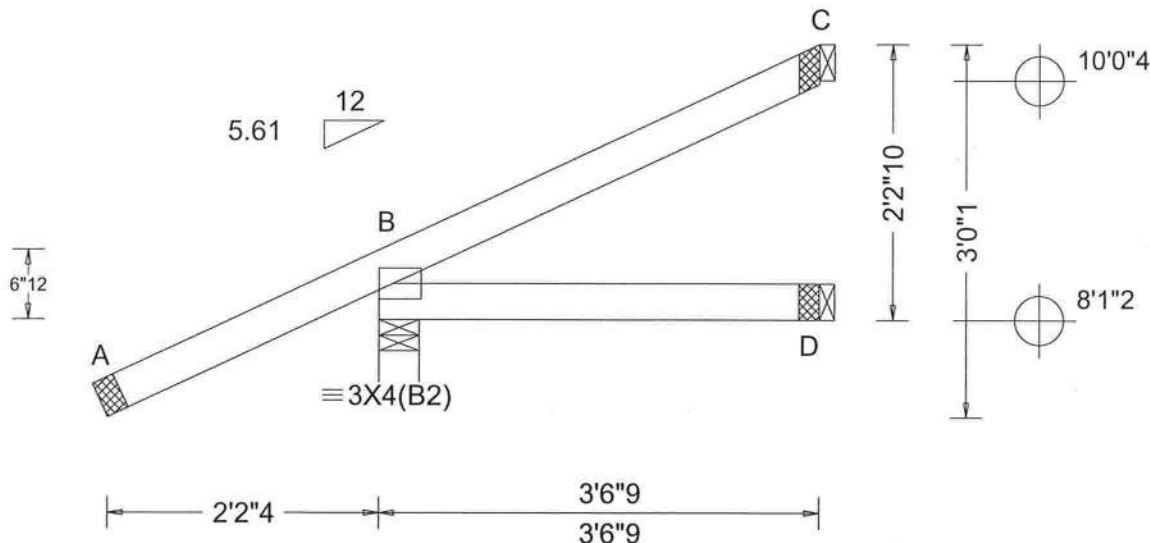
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Orlando FL, 32821

SEQN: 105846 FROM: RNB	HIP_ Qty: 1	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: HJ4	Cust: R 857 JRef: 1XdX8570001 T15 DrwNo: 077.22.1521.31507 KD / DF 03/18/2022
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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:	130 mph	Pf: NA	Ce: NA		VERT(LL):	NA		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	NA		B	331	/	/	/	/112	/	
BCDL:	10.00	Risk Category:	II	Snow Duration: NA			HORZ(LL):	0.001 C		D	64	/	/	/23	/	/	
		EXP: C	Kzt: NA				HORZ(TL):	0.002 C		C	67	/	/	/	/46	/	
Des Ld:	37.00	Mean Height:	15.00 ft			Building Code:	Creep Factor:	2.0		Wind reactions based on MWFRS							
NCBCLL:	10.00	TCDL:	4.2 psf			FBC 7th Ed. 2020 Res.	Max TC CSI:	0.280		B	Brg Wid = 3.8						Min Req = 1.5
Soffit:	2.00	BCDL:	6.0 psf			TPI Std: 2014	Max BC CSI:	0.084		D	Brg Wid = 1.5						
Load Duration:	1.25	MWFRS Parallel Dist:	0 to h/2			Rep Fac: Varies by Ld Case	Max Web CSI:	0.000		C	Brg Wid = 1.5						
Spacing:	24.0 "	C&C Dist a:	3.00 ft			FT/RT:20(0)/0(0)				Bearing B Fcperp = 425psi.							
		Loc. from endwall:	not in 4.50 ft			Plate Type(s):				Members not listed have forces less than 375#							
		GCpi:	0.18			WAVE											
		Wind Duration:	1.60														
								VIEW Ver: 21.01.03A.0805.15									

Lumber

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 55 plf at 2.31 to 55 plf at 3.55
BC: From 4 plf at 2.31 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 3.55
TC: 9 lb Conc. Load at 2.48
BC: 38 lb Conc. Load at 2.48

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	2.25	3.55
BC	41	0.11	3.55

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

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0218
03/18/2022

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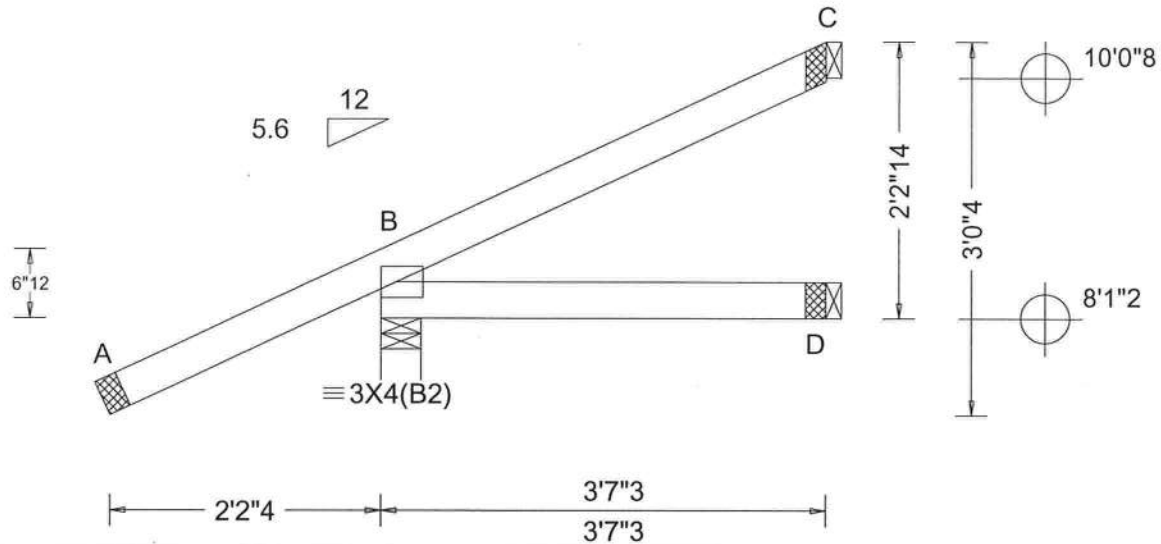
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105848 FROM: RNB	HIP_	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: HJ4A	Cust: R 857 JRef: 1XdX8570001 T34 DrwNo: 077.22.1521.15333 KD / DF 03/18/2022
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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: 130 mph		Pf: NA Ce: NA		VERT(LL): NA		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): NA		B	333	/	/	/	/112	/
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.001 C		D	65	/	/	/23	/	/
Des Ld: 37.00		EXP: C Kzt: NA		Building Code:		HORZ(TL): 0.002 C		C	68	/	/	/	/46	/
NCBCLL: 10.00		Mean Height: 15.00 ft		FBC 7th Ed. 2020 Res.		Creep Factor: 2.0		Wind reactions based on MWFRS						
Soffit: 2.00		BCDL: 4.2 psf		TPI Std: 2014		Max TC CSI: 0.280		B Brg Wid = 3.8 Min Req = 1.5						
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Varies by Ld Case		Max BC CSI: 0.088		D Brg Wid = 1.5						
Spacing: 24.0 "		C&C Dist a: 3.00 ft		FT/RT: 20(0)/0(0)		Max Web CSI: 0.000		C Brg Wid = 1.5						
		Loc. from endwall: not in 4.50 ft		Plate Type(s):		VIEW Ver: 21.01.03A.0805.15		Bearing B Fcperp = 425psi. Members not listed have forces less than 375#						
		GCpi: 0.18		WAVE										
		Wind Duration: 1.60												

Lumber

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 55 plf at 2.31 to 55 plf at 3.60
BC: From 4 plf at 2.31 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 3.60
TC: 9 lb Conc. Load at 2.48
BC: 38 lb Conc. Load at 2.48

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	2.25	3.60
BC	42	0.11	3.60

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

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0 248
03/18/2022

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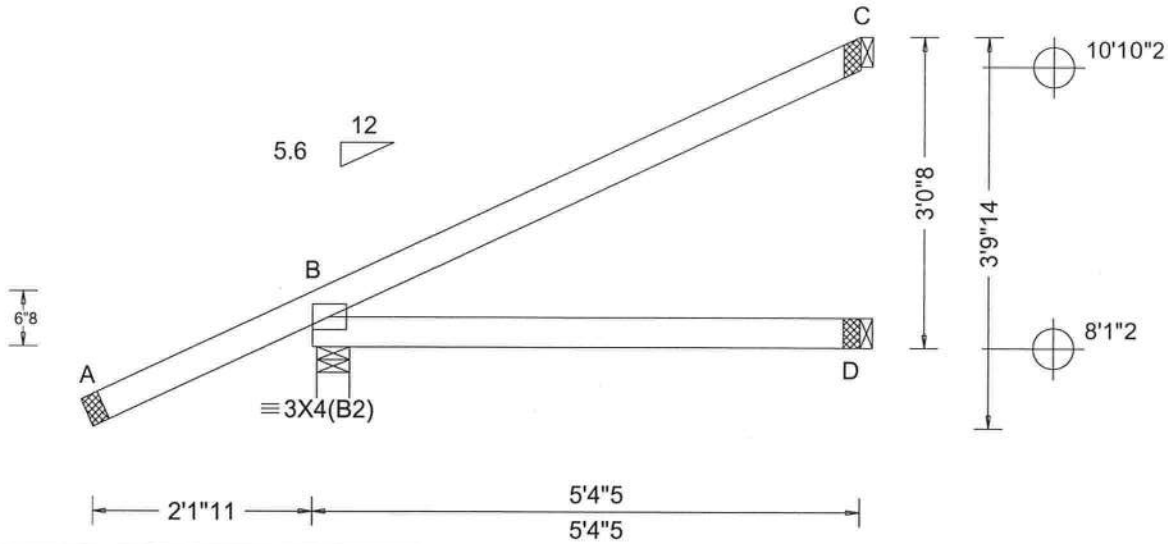
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Suite 305
Orlando FL, 32821

SEQN: 105842 FROM: RNB	HIP_	Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: HJ5	Cust: R 857 JRef: 1XdX8570001 T5 DrwNo: 077.22.1521.07560 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.002 C HORZ(TL): 0.007 C Creep Factor: 2.0 Max TC CSI: 0.099 Max BC CSI: 0.196 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 209 / / / /52 / D 94 / / /5 / / C 37 / / / /16 / Wind reactions based on MWFRS B Brg Wid = 3.8 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 0 plf at 2.27 to 55 plf at 0.12
TC: From 2 plf at 0.12 to 2 plf at 5.36
BC: From 0 plf at 2.27 to 4 plf at 0.12
BC: From 2 plf at 0.12 to 2 plf at 5.36
TC: 9 lb Conc. Load at 2.41, 2.52
BC: 38 lb Conc. Load at 2.41, 2.52

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	2.20	5.36
BC	62	0.21	5.36

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

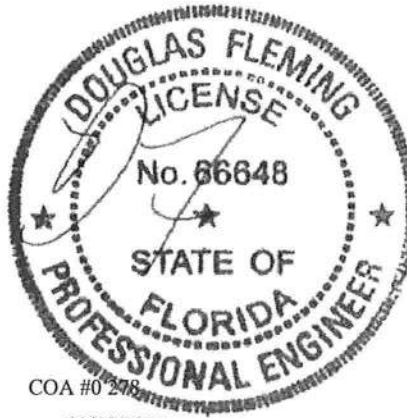
Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0 218

03/18/2022

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

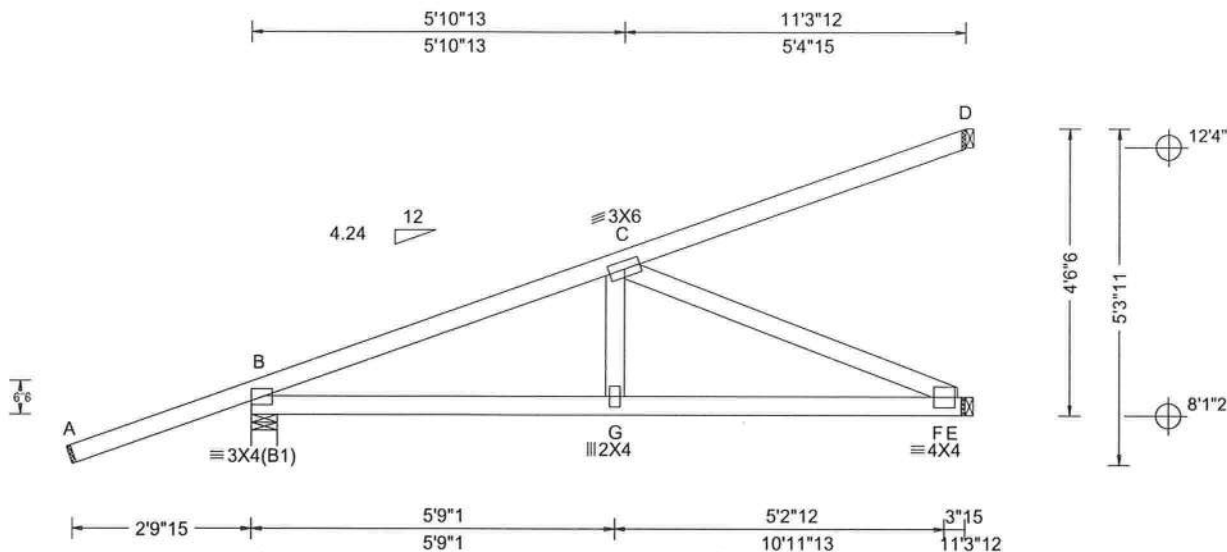
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105657 FROM: RNB	HIP_	Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: HJ11	Cust: R 857 JRef: 1XdX8570001 T26 DrwNo: 077.22.1521.57337 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft BCDL: 4.2 psf TCDL: 6.0 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.037 G 999 360 VERT(CL): 0.069 G 999 240 HORZ(LL): 0.010 D HORZ(TL): 0.019 D Creep Factor: 2.0 Max TC CSI: 0.973 Max BC CSI: 0.706 Max Web CSI: 0.594 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 436 / / / /145 / E 430 / / / /68 / D 125 / / / /62 / Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 0 plf at 2.93 to 55 plf at 0.10	
TC: From 2 plf at 0.10 to 2 plf at 11.31	
BC: From 0 plf at 2.93 to 4 plf at 0.10	
BC: From 2 plf at 0.00 to 2 plf at 11.31	
TC: 7 lb Conc. Load at 2.85	
TC: 158 lb Conc. Load at 5.68	
TC: 280 lb Conc. Load at 8.51	
BC: 65 lb Conc. Load at 2.85	
BC: 145 lb Conc. Load at 5.68	
BC: 222 lb Conc. Load at 8.51	

Plating Notes

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

Purlins

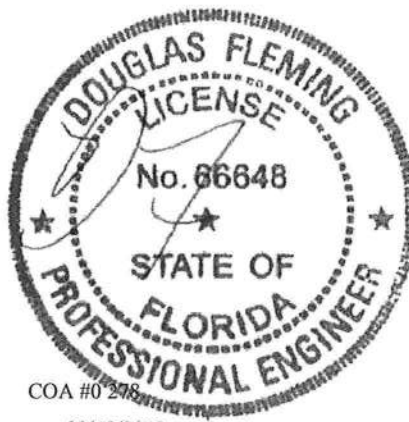
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	72	2.88	11.31
BC	120	0.20	11.31

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

Loading

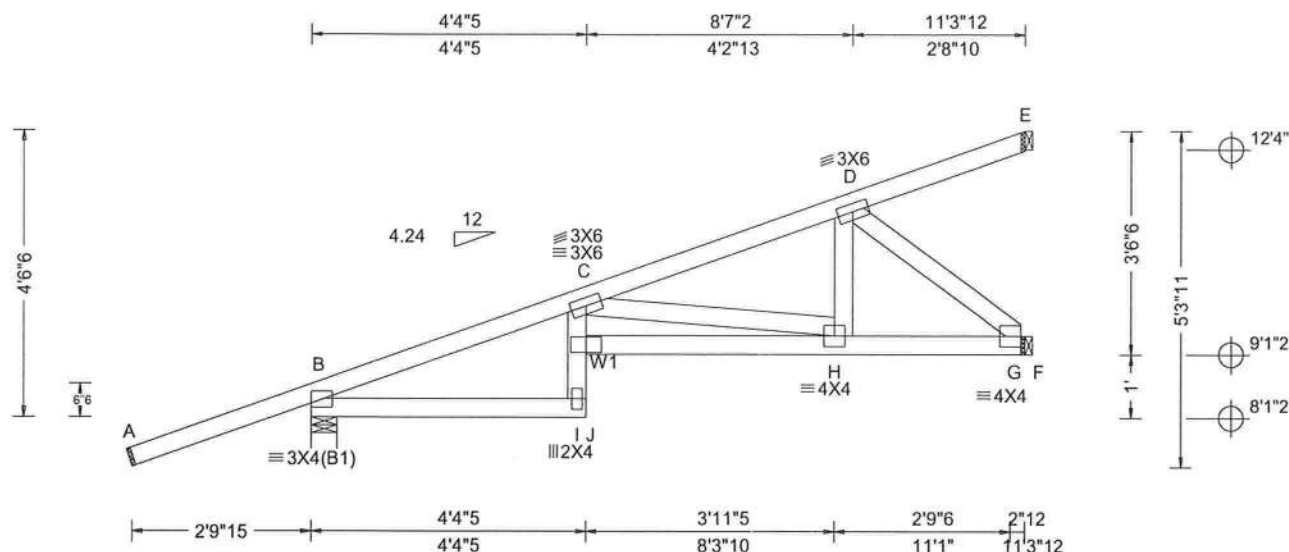
Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.



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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105631 FROM: RNB	HIP_	Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: HJ11A	Cust: R 857 JRef: 1XdX8570001 T12 DrwNo: 077.22.1521.46717 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.120 I 999 360 VERT(CL): 0.226 I 595 240 HORZ(LL): 0.052 G HORZ(TL): 0.099 G Creep Factor: 2.0 Max TC CSI: 0.993 Max BC CSI: 0.350 Max Web CSI: 0.938 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 405 / / / /140 / F 538 / / / /138 / E 4 /31 / /12 / / Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 F Brg Wid = 1.5 E Brg Wid = 1.5 Bearing B 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;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W1 2x4 SP #1;

Special Loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at 2.93 to 55 plf at 0.10
TC: From 2 plf at 0.10 to 2 plf at 11.31
BC: From 0 plf at 2.93 to 4 plf at 0.10
BC: From 2 plf at 0.00 to 2 plf at 11.31
TC: 7 lb Conc. Load at 2.85
TC: 180 lb Conc. Load at 5.68
TC: 302 lb Conc. Load at 8.51
BC: 65 lb Conc. Load at 2.85
BC: 79 lb Conc. Load at 5.68
BC: 163 lb Conc. Load at 8.51

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

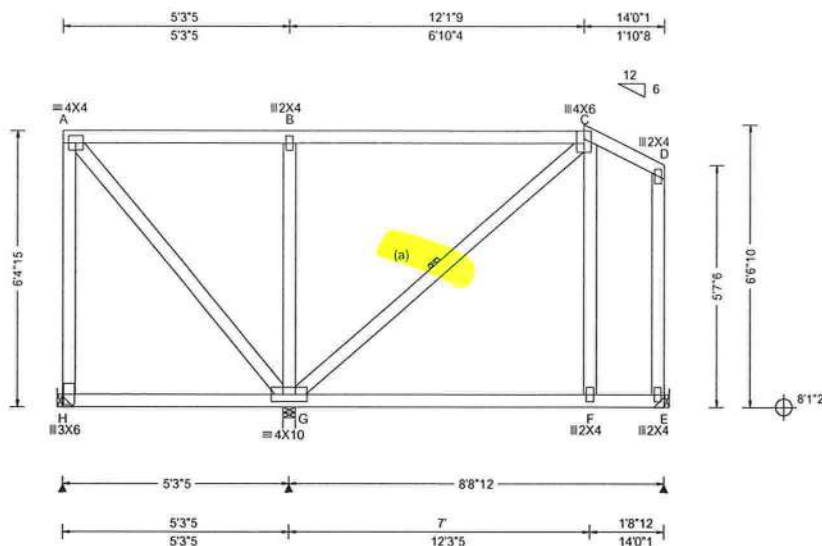
Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:
Chord Spacing(in oc) Start(ft) End(ft)
TC 70 2.88 11.31
BC 48 0.20 4.21
BC 85 4.27 11.31
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.



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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.022 F 999 360 VERT(CL): 0.045 F 999 240 HORZ(LL): 0.023 D HORZ(TL): 0.048 D Creep Factor: 2.0 Max TC CSI: 0.492 Max BC CSI: 0.318 Max Web CSI: 0.947 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL H 438 / / /106 /266 /210 G 1368 / / /740 /295 / E 46 /2 / /14 /16 / Wind reactions based on MWFRS H Brg Wid = Min Req = G Brg Wid = 3.5 E Brg Wid = Bearing G Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Additional Notes	Maximum Web Forces Per Ply (lbs)
Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;	Negative reaction(s) of 438# MAX. from a non wind load case requires uplift connection. See Maximum Reactions.	Webs Tens.Comp. Webs Tens. Comp. A H 471 354 B G 598 402 A G 628 631 G C 427 552

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	24	0.00	12.13
TC	25	12.13	14.00
BC	75	0.00	14.00

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.
Left end vertical exposed to wind pressure. Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



COA #0 208
03/18/2022

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105688	HIPM	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T38
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1520.58617
Page 2 of 2			Truss Label: MH1	KD / DF 03/18/2022

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong Tie. Please refer to the most recent Simpson Strong Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing H (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

Bearing E (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



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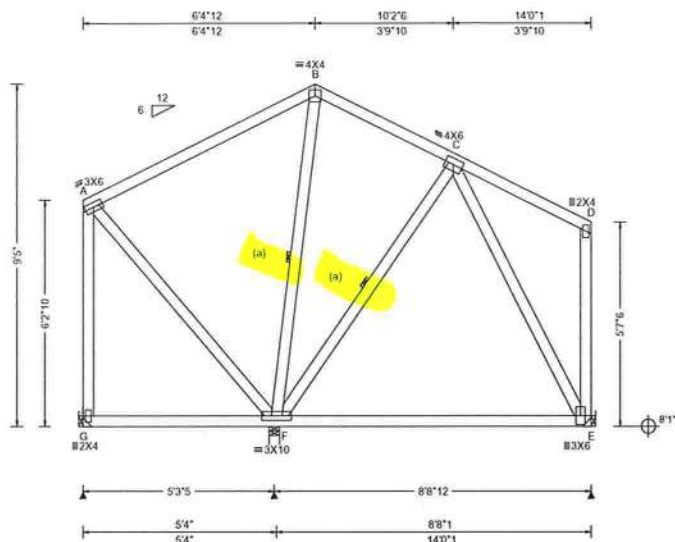
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105694	SPEC	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T41
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1520.54523
Page 1 of 2			Truss Label: S1	KD / DF 03/18/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg, Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCCL:	20.00	Wind Std:	ASCE 7 16	Pg: NA	Ct: NA	PP Deflection in	loc L/defl L/#	Gravity	
TCDL:	7.00	Speed:	130 mph	Pf: NA	Ce: NA	VERT(LL):	0.002 B 999 360	Loc	R+ / R / Rh / Rw / U / RL
BCCL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA	VERT(CL):	0.004 B 999 240	G	177 / / /93 /40 /284
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA	HORZ(LL):	0.003 D	F	571 / / /309 / /
Des Ld:	37.00	EXP: C	Kzt: NA			HORZ(TL):	0.004 D	E	312 / / /182 /45 /
NCBCLL:	10.00	Mean Height:	15.61 ft	Building Code:		Creep Factor:	2.0	Wind reactions based on MWFRS	
Soffit:	2.00	BCDL:	6.0 psf	FBC 7th Ed. 2020 Res.		Max TC CSI:	0.568	G	Brg Wid = Min Req =
Load Duration:	1.25	MWFRS Parallel Dist:	h to 2h	TPI Std:	2014	Max BC CSI:	0.521	F	Brg Wid = 3.5
Spacing:	24.0 "	C&C Dist a:	3.00 ft	Rep Fac:	Yes	Max Web CSI:	0.783	E	Brg Wid =
		Loc. from endwall:	not in 9.00 ft	FT/RT:	20(0)/0(0)			Bearing F Fcperp = 425psi.	
		GCpi:	0.18	Plate Type(s):				Members not listed have forces less than 375#	
		Wind Duration:	1.60	WAVE		VIEW Ver:	21.01.03A.0805.15		

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	75	0.00	6.40
TC	75	6.40	14.00
BC	120	0.00	14.00

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.

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0 278
03/18/2022

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

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105694	SPEC	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T41
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1520.54523
Page 2 of 2			Truss Label: S1	KD / DF 03/18/2022

Hangers / Ties

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Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing G (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense

(14) 0.148"x3" nails into supporting member,

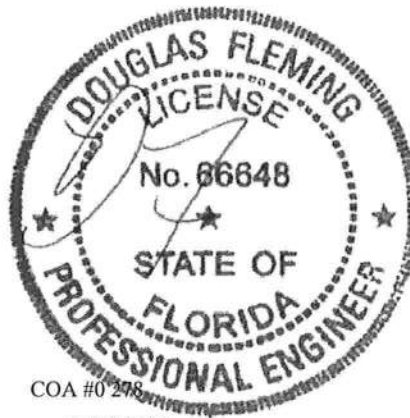
(4) 0.148"x3" nails into supported member.

Bearing E (13'9"1, 8'1"2) HUS26

Supporting Member: (1)2x6 SP #1

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.



COA #0298

03/18/2022

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

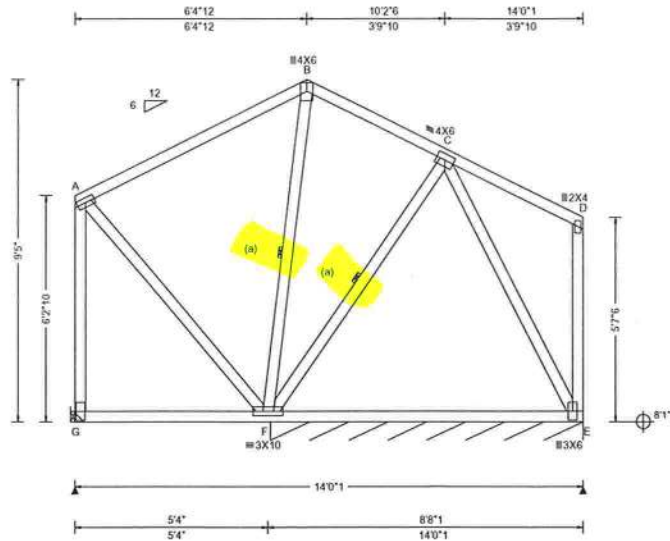
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6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCCL: 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.61 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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 7th Ed. 2020 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 B 999 360 VERT(CL): 0.005 B 999 240 HORZ(LL): 0.005 D HORZ(TL): 0.006 D Creep Factor: 2.0 Max TC CSI: 0.411 Max BC CSI: 0.589 Max Web CSI: 0.788 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL G 175 / / /96 /105 /335 E* 103 / / /59 / / / Wind reactions based on MWFRS G Brg Wid = Min Req = E Brg Wid = 103 Bearing F Fcperp = 425psi. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G F 411 347 F E 306 487

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

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

Purlins

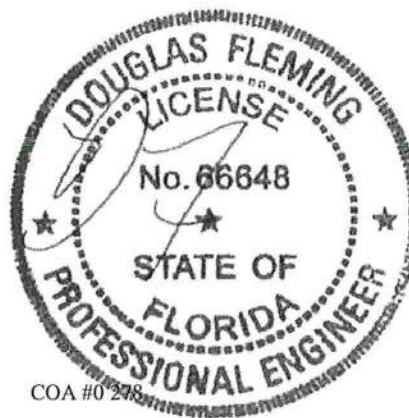
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	0.00	6.40
TC	75	6.40	14.00
BC	75	0.00	14.00

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



COA #0 248

03/18/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105697	SPEC	Ply: 1	Job Number: B55151a	Cust: R 857 JRef: 1XdX8570001 T42
FROM: RNB		Qty: 1	Thorton Res	DrwNo: 077.22.1520.51237
Page 2 of 2			Truss Label: S2	KD / DF 03/18/2022

Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong Tie. Please refer to the most recent Simpson Strong Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bearing at location x=0' uses the following support conditions: 0'

Bearing G (0', 8'1"2) HUS26

Supporting Member: (1)2x8 SP SS Dense
(14) 0.148"x3" nails into supporting

member,
(4) 0.148"x3" nails into supported
member.



COA #0 208

03/18/2022

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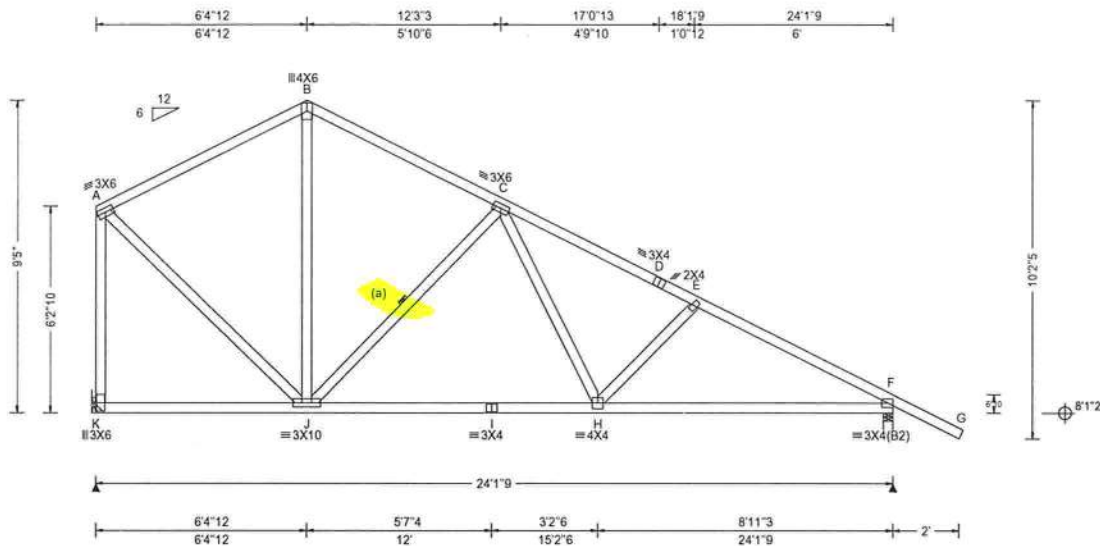
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105707 FROM: RNB	SPEC Qty: 2	Ply: 1 Thorton Res	Job Number: B55151a Thorton Res Truss Label: S3	Cust: R 857 JRef: 1XdX8570001 T48 DrwNo: 077.22.1520.47497 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.055 H 999 360 VERT(CL): 0.102 H 999 240 HORZ(LL): 0.025 B HORZ(TL): 0.047 B Creep Factor: 2.0 Max TC CSI: 0.971 Max BC CSI: 0.533 Max Web CSI: 0.843 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL K 905 / / /483 /37 /371 F 1045 / / /631 /35 / Wind reactions based on MWFRS K Brg Wid = Min Req = F Brg Wid = 3.5 Bearing F Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 306 625 D E 379 1258 B C 332 630 E F 432 1480 C D 399 1230

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	75	0.00	6.40
TC	54	6.40	26.19
BC	120	0.00	24.00

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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 #0208

03/18/2022

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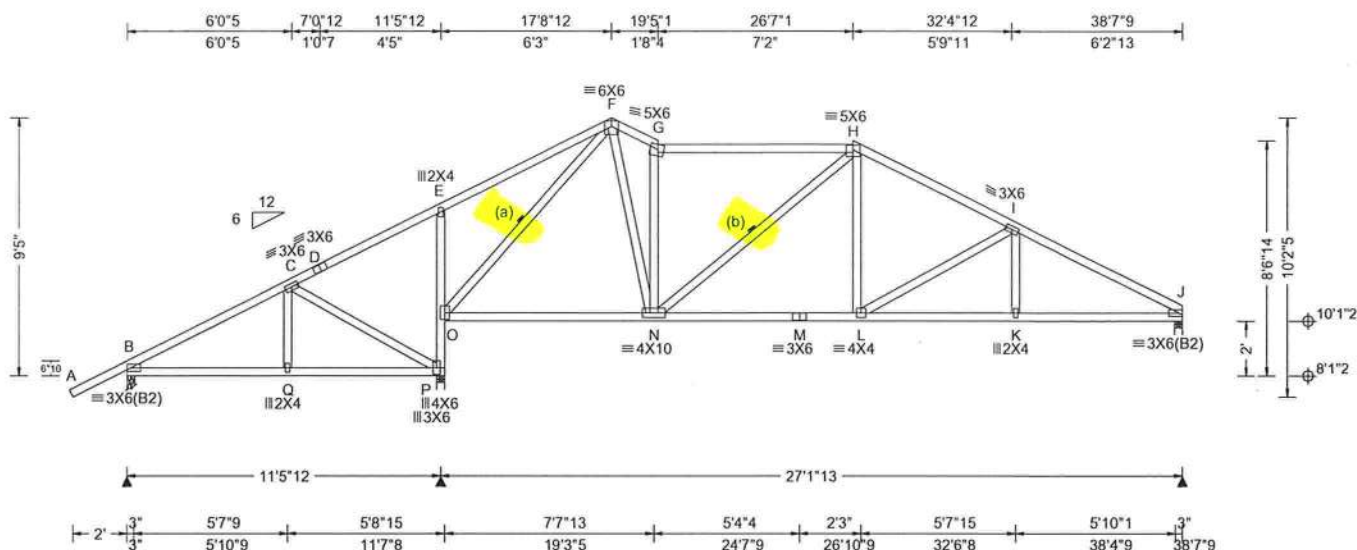
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ALPINE
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105760 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: S4	Cust: R 857 JRef: 1XdX8570001 T50 DrwNo: 077.22.1520.44337 KD / DF 03/18/2022
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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: 130 mph		Pf: NA Ce: NA		VERT(LL): 0.069 L 999 360		Loc R+ / R / Rh / Rw / U / RL	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.130 L 999 240		B 546 / / /287 /67 /291	
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.018 J		P 1496 / / /909 /125 /	
Des Ld: 37.00		EXP: C Kzt: NA				HORZ(TL): 0.038 J		J 1022 / / /616 /49 /	
NCBCLL: 10.00		Mean Height: 15.00 ft		Building Code:		Creep Factor: 2.0		Wind reactions based on MWFRS	
Soffit: 2.00		TCDL: 4.2 psf		FBC 7th Ed. 2020 Res.		Max TC CSI: 0.992		B Brg Wid = 3.5 Min Req = 1.5	
Load Duration: 1.25		BCDL: 6.0 psf		TPI Std: 2014		Max BC CSI: 0.515		P Brg Wid = 3.5 Min Req = 1.9	
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes		Max Web CSI: 0.943		J Brg Wid = 3.5 Min Req = 1.5	
		C&C Dist a: 3.86 ft		FT/RT:20(0)/0(0)				Bearings B, P, & J Fcperp = 425psi.	
		Loc. from endwall: not in 9.00 ft		Plate Type(s):				Members not listed have forces less than 375#	
		GCpi: 0.18		WAVE		VIEW Ver: 21.01.03A.0805.15		Maximum Top Chord Forces Per Ply (lbs)	
		Wind Duration: 1.60						Chords Tens.Comp. Chords Tens. Comp.	

Lumber

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

Bracing

(b) 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.

(a) 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	75	2.07	17.73
TC	23	17.73	19.42
TC	24	19.42	26.59
TC	52	26.59	38.56
BC	120	0.13	11.33
BC	120	11.36	38.50

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 Q	376 122	M L	1132 340
O N	695 164	L K	1477 467
N M	1132 340	K J	1478 465

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C P	124 463	N G	505 735
P O	439 1225	H L	405 4
O F	304 1078	L I	147 383
F N	1083 472		



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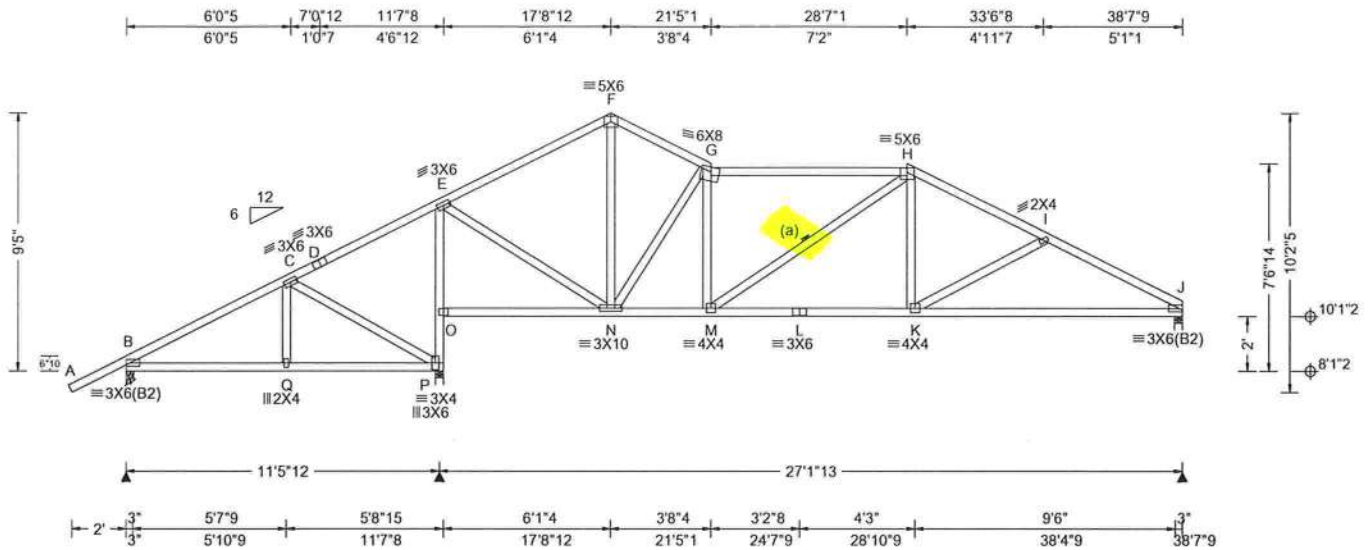
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105757 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: S5	Cust: R 857 JRef: 1XdX8570001 T58 DrwNo: 077.22.1520.41847 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.068 K 999 360 VERT(CL): 0.127 K 999 240 HORZ(LL): 0.015 N HORZ(TL): 0.028 F Creep Factor: 2.0 Max TC CSI: 0.981 Max BC CSI: 0.607 Max Web CSI: 0.752 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 538 / / /279 /68 /291 P 1521 / / /914 /117 / J 1015 / / /605 /47 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 P Brg Wid = 3.5 Min Req = 1.9 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, P, & J 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;
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	75	2.07	17.73
TC	50	17.73	21.42
TC	24	21.42	28.59
TC	53	28.59	38.56
BC	120	0.13	11.33
BC	75	11.41	38.50

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 #0248

03/18/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N M	1229 435	L K	1268 425
M L	1268 425	K J	1470 563

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C P	129 470	F N	442 263
P O	424 1247	N G	514 960
O E	455 1185	H K	404 0
E N	848 200		

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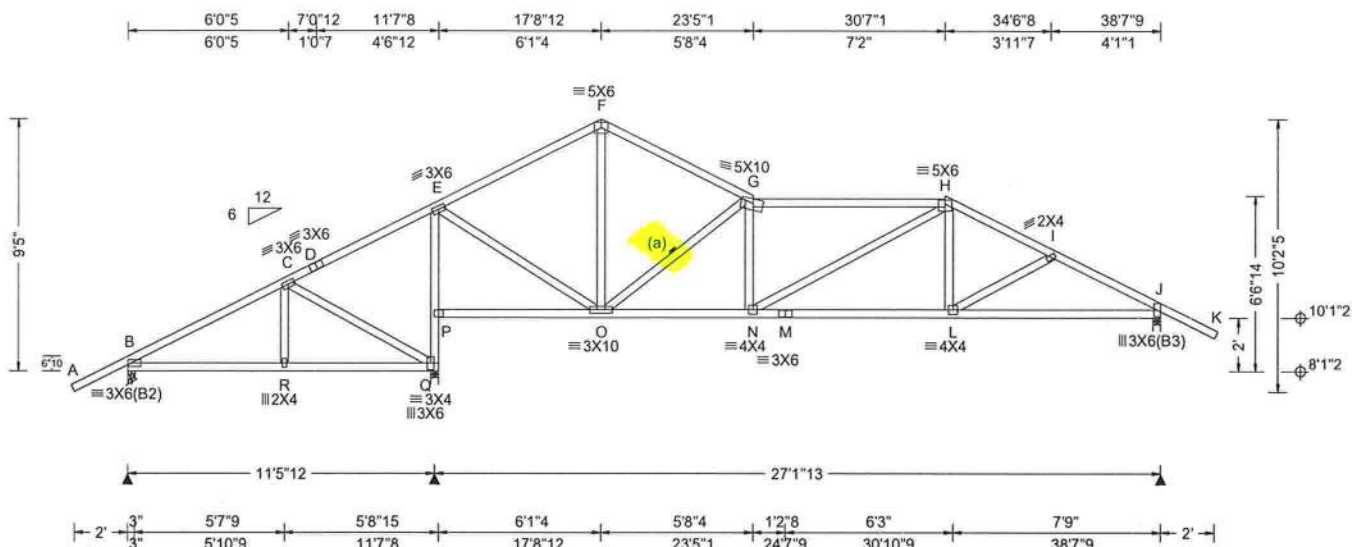
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105754 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: S6	Cust: R 857 JRef: 1XdX8570001 T43 DrwNo: 077.22.1520.40077 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.084 G 999 360 VERT(CL): 0.155 G 999 240 HORZ(LL): 0.020 O HORZ(TL): 0.037 O Creep Factor: 2.0 Max TC CSI: 0.988 Max BC CSI: 0.484 Max Web CSI: 0.704 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL B 536 / / / /266 /79 /326 Q 1521 / / / /925 /80 / J 1143 / / / /709 /71 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 Q Brg Wid = 3.5 Min Req = 1.9 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, 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.

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	75	2.07	17.73
TC	75	17.73	23.42
TC	24	23.42	30.59
TC	43	30.59	40.69
BC	120	0.13	11.33
BC	75	11.41	38.50

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 #0298

03/18/2022

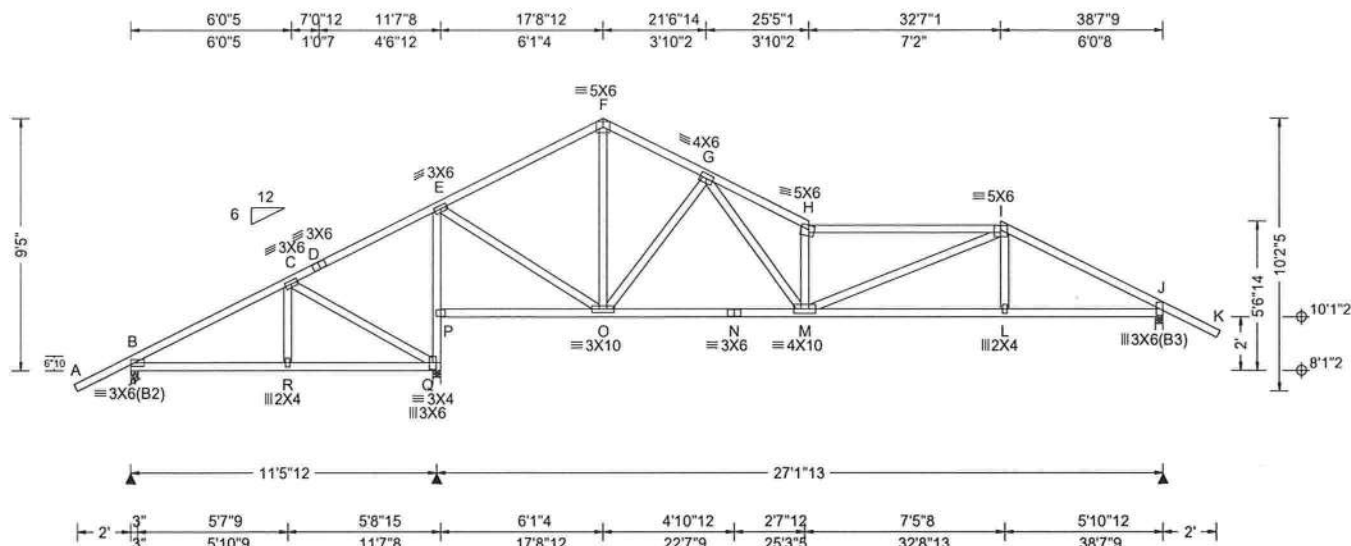
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105751 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: S7	Cust: R 857 JRef: 1XdX8570001 T54 DrwNo: 077.22.1520.37920 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.135 H 999 360 VERT(CL): 0.251 H 999 240 HORZ(LL): 0.034 I HORZ(TL): 0.062 I Creep Factor: 2.0 Max TC CSI: 0.991 Max BC CSI: 0.540 Max Web CSI: 0.696 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 532 / / / /263 /78 /326 Q 1534 / / / /923 /69 / J 1139 / / / /698 /71 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 Q Brg Wid = 3.5 Min Req = 1.9 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, 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.

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	2.07	17.73
TC	46	17.73	25.42
TC	24	25.42	32.59
TC	49	32.59	40.69
BC	120	0.13	11.33
BC	75	11.41	38.50

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 #0208
03/18/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O N	1186 339	M L	1471 525
N M	1186 339	L J	1475 520

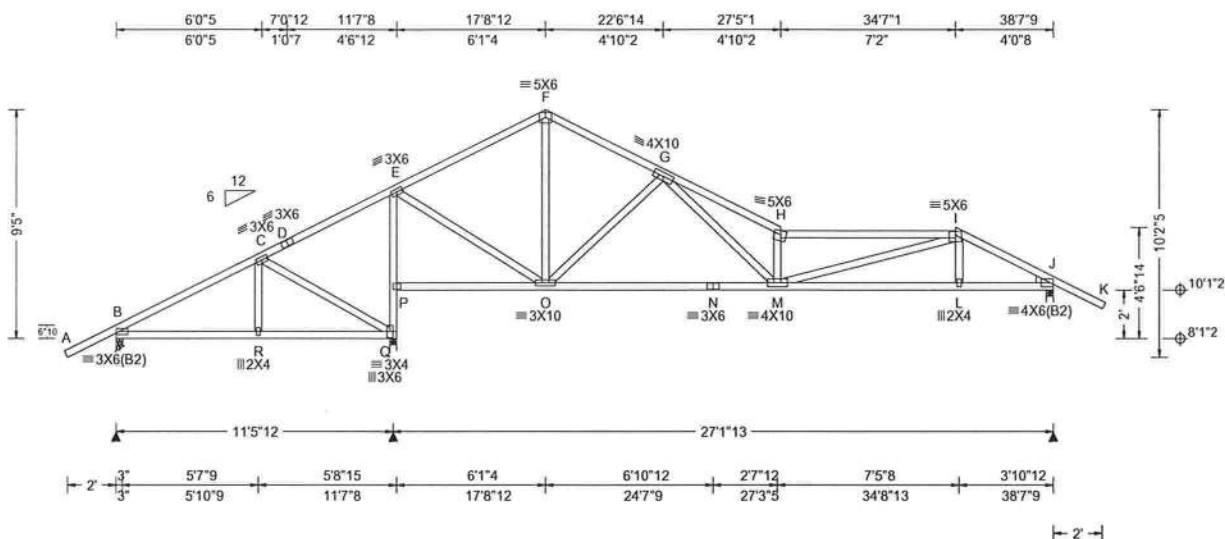
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C Q	127 471	O G	430 869
Q P	355 1261	G M	1550 661
P E	381 1203	M H	730 1404
E O	874 131	M I	734 298
F O	421 196		

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105748 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: S8	Cust: R 857 JRef: 1XdX8570001 T59 DrwNo: 077.22.1520.35307 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.86 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 7th Ed. 2020 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): 0.223 H 999 360 VERT(CL): 0.415 H 788 240 HORZ(LL): 0.060 I HORZ(TL): 0.112 I Creep Factor: 2.0 Max TC CSI: 0.991 Max BC CSI: 0.635 Max Web CSI: 0.836 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 525 / / / /257 /77 /326 Q 1555 / / / /925 /57 / J 1133 / / / /686 /83 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 Q Brg Wid = 3.5 Min Req = 2.0 J Brg Wid = 3.5 Min Req = 1.5 Bearings B, 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.

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Rt 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	75	2.07	17.73
TC	39	17.73	27.42
TC	24	27.42	34.59
TC	46	34.59	40.69
BC	120	0.13	11.33
BC	75	11.41	38.50

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.



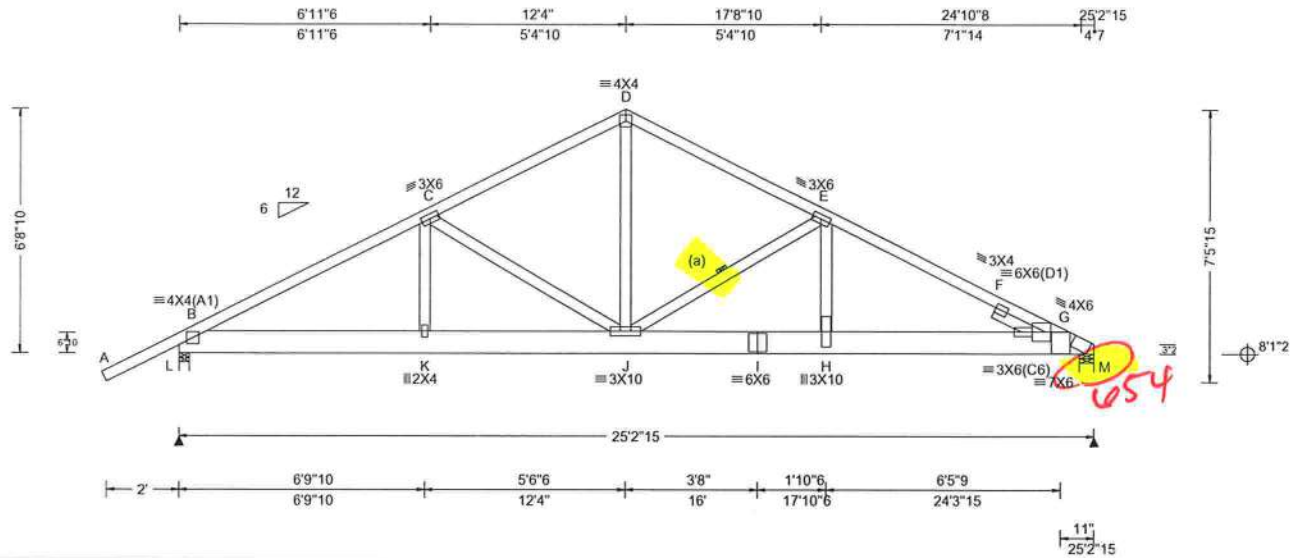
COA #0 248
03/18/2022

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105718 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: SG1	Cust: R 857 JRef: 1XdX8570001 T13 DrwNo: 077.22.1520.31840 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.125 F 999 360 VERT(CL): 0.224 F 999 240 HORZ(LL): 0.036 F HORZ(TL): 0.064 F Creep Factor: 2.0 Max TC CSI: 0.978 Max BC CSI: 0.778 Max Web CSI: 0.882 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity L 1430 / / / / /502 / M 2996 / / / / /654 / Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 M Brg Wid = 4.9 Min Req = 3.8 Bearings L & M 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 857 2271 E F 1173 3416 C D 793 1803 F G 942 3309 D E 805 1832

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x8 SP SS Dense;
Webs: 2x4 SP #3;
Rt Slider: 2x4 SP #3; block length = 1.500'

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 2.13 to 56 plf at 8.06
TC: From 28 plf at 8.06 to 28 plf at 12.33
TC: From 56 plf at 12.33 to 56 plf at 24.53
BC: From 4 plf at 2.13 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.06
BC: From 10 plf at 8.06 to 10 plf at 24.53
BC: From 64 plf at 24.53 to 64 plf at 25.25
BC: 106 lb Conc. Load at 8.06
BC: 124 lb Conc. Load at 10.06
BC: 46 lb Conc. Load at 12.06
BC: 161 lb Conc. Load at 14.06
BC: 178 lb Conc. Load at 16.06, 18.06
BC: 175 lb Conc. Load at 20.06
BC: 905 lb Conc. Load at 22.06, 24.06

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	43	2.07	12.33
TC	32	12.33	24.96
BC	86	0.15	25.25

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

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M G	2909 832	J I	3014 1029
B K	1958 732	I H	3014 1029
K J	1954 734	H G	3047 1034

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C J	53 460	J E	405 1722
D J	1370 590	E H	1258 227



03/18/2022

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

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: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.599 P 770 360	Loc R+ / R / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 1.102 P 419 240	B 1589 / / / /329 /54
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.194 F	L 1632 / / / /373 /
	EXP: C Kzt: NA		HORZ(TL): 0.357 F	Wind reactions based on MWFRS
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 2.0
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.994	L Brg Wid = 3.5 Min Req = 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max BC CSI: 0.982	Bearings B & L Fcperp = 425psi.
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.943	Members not listed have forces less than 375#
Spacing: 24.0 "	C&C Dist a: 3.86 ft	Rep Fac: Varies by Ld Case		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE HS	VIEW Ver: 21.01.03A.0805.15	B C 493 2584 G H 578 3040

Bracing	TC	24	29.42	36.59
	TC	35	36.59	40.69
(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.	BC	120	0.13	11.48
	BC	66	11.51	38.50
	Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.			
Special Loads				

Plating Notes

All plates are 2X4 except as noted.

(**) 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.

COA #0 218

03/18/2022

A circular seal for the State of Florida Professional Engineer. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal is blank.

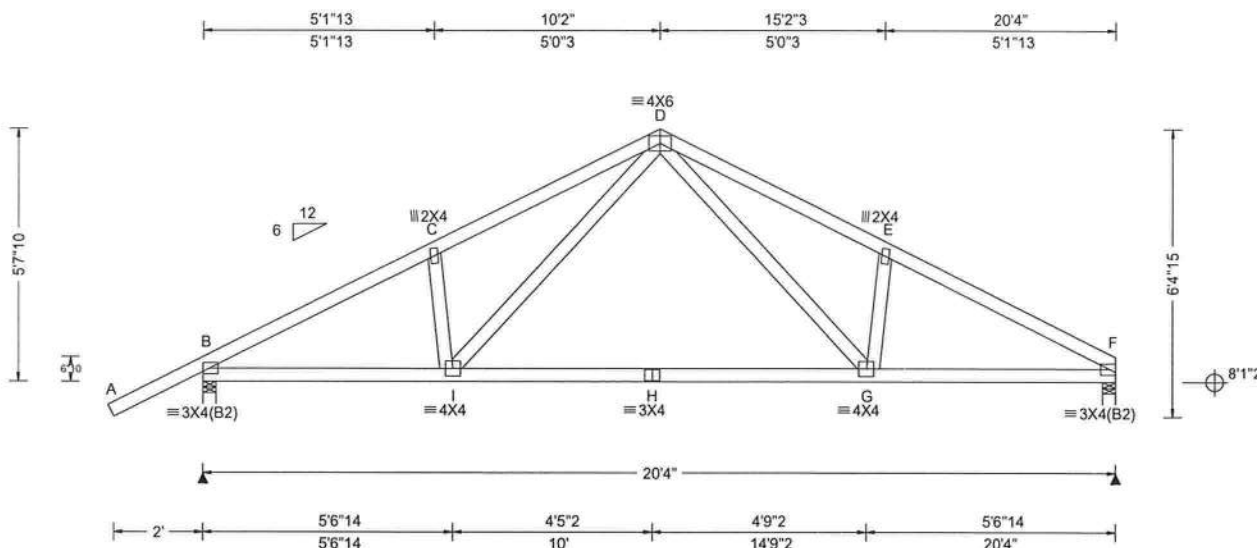
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SEQN: 105614 FROM: RNB	COMN Ply: 1 Qty: 6	Job Number: B55151a Thorton Res Truss Label: T 1	Cust: R 857 JRef: 1XdX8570001 T21 DrwNo: 077.22.1520.01247 KD / DF 03/18/2022
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Loading Criteria (psf)	Wind 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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any 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 7th Ed. 2020 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): 0.052 I 999 360 VERT(CL): 0.095 I 999 240 HORZ(LL): 0.022 F HORZ(TL): 0.040 F Creep Factor: 2.0 Max TC CSI: 0.993 Max BC CSI: 0.469 Max Web CSI: 0.239 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 900 / / / 520 /184 /164 F 762 / / / 414 /137 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F 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 551 1246 D E 682 1218 C D 651 1181 E F 582 1276

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	60	2.07	10.17
TC	63	10.17	20.27
BC	120	0.13	20.20

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

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.



03/18/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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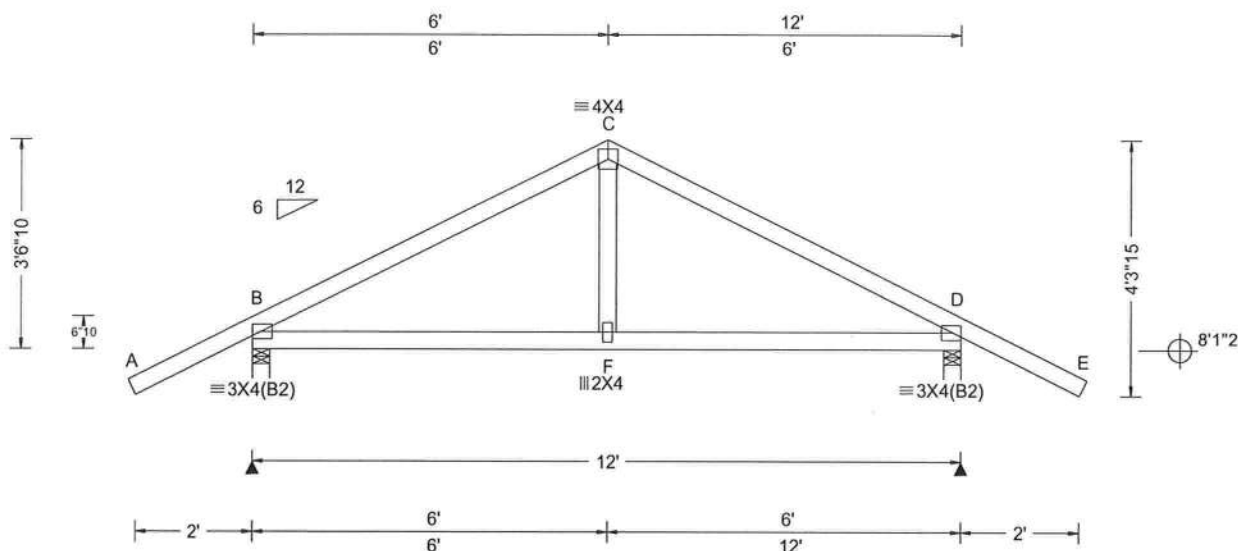
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105810 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: T 2	Cust: R 857 JRef: 1XdX8570001 T3 DrwNo: 077.22.1519.58730 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.013 F 999 360 VERT(CL): 0.023 F 999 240 HORZ(LL): 0.005 D HORZ(TL): 0.010 D Creep Factor: 2.0 Max TC CSI: 0.562 Max BC CSI: 0.233 Max Web CSI: 0.097 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 578 / / / /355 /123 /131 D 578 / / / /355 /123 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 3.5 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 265 550 C D 265 550

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	2.07	6.00
TC	75	6.00	14.07
BC	120	0.13	11.87

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

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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
03/18/2022

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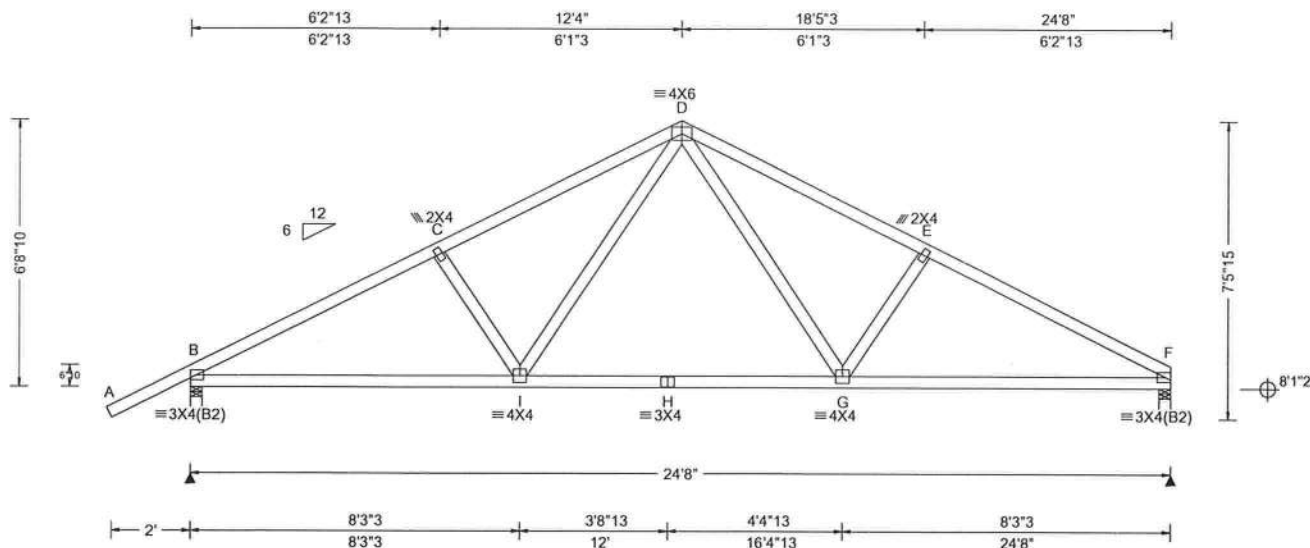
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105679 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: T 3	Cust: R 857 JRef: 1XdX8570001 T18 DrwNo: 077.22.1519.56793 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.070 I 999 360 VERT(CL): 0.126 I 999 240 HORZ(LL): 0.029 F HORZ(TL): 0.053 F Creep Factor: 2.0 Max TC CSI: 0.977 Max BC CSI: 0.466 Max Web CSI: 0.185 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1063 / / / /607 /35 /192 F 927 / / / /502 /13 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 F Brg Wid = 3.5 Min Req = 1.5 Bearings B & F 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 437 1520 D E 459 1361 C D 440 1341 E F 456 1542

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	53	2.07	12.33
TC	56	12.33	24.60
BC	120	0.13	24.54

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

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0248
03/18/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B I	1280 332	H G	892 156
I H	892 156	G F	1308 336

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
I D	460 98	D G	486 120

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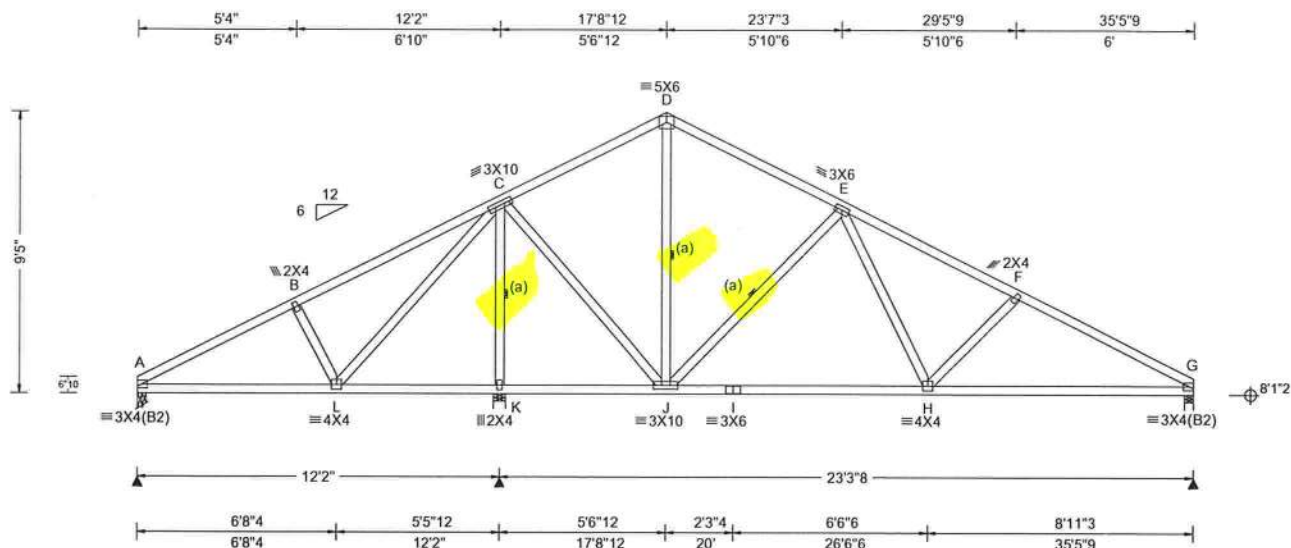
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105721 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: T 4	Cust: R 857 JRef: 1XdX8570001 T20 DrwNo: 077.22.1519.54693 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.55 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 7th Ed. 2020 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): 0.041 H 999 360 VERT(CL): 0.079 H 999 240 HORZ(LL): 0.011 D HORZ(TL): 0.024 D Creep Factor: 2.0 Max TC CSI: 0.956 Max BC CSI: 0.538 Max Web CSI: 0.777 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL A 343 / / / /179 / /234 K 1613 / / / /845 /46 / G 812 / / / /501 /29 / Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 K Brg Wid = 4.9 Min Req = 2.0 G Brg Wid = 3.5 Min Req = 1.5 Bearings A, K, & G 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;
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	75	0.07	17.73
TC	62	17.73	35.40
BC	75	0.13	35.33

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

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

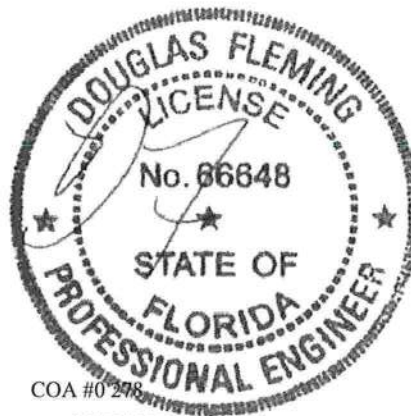
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J I	712 59	H G	1099 210
I H	712 59		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L C	563 162	J E	248 606
C K	451 1513	E H	485 43
C J	851 138		



COA #0298

03/18/2022

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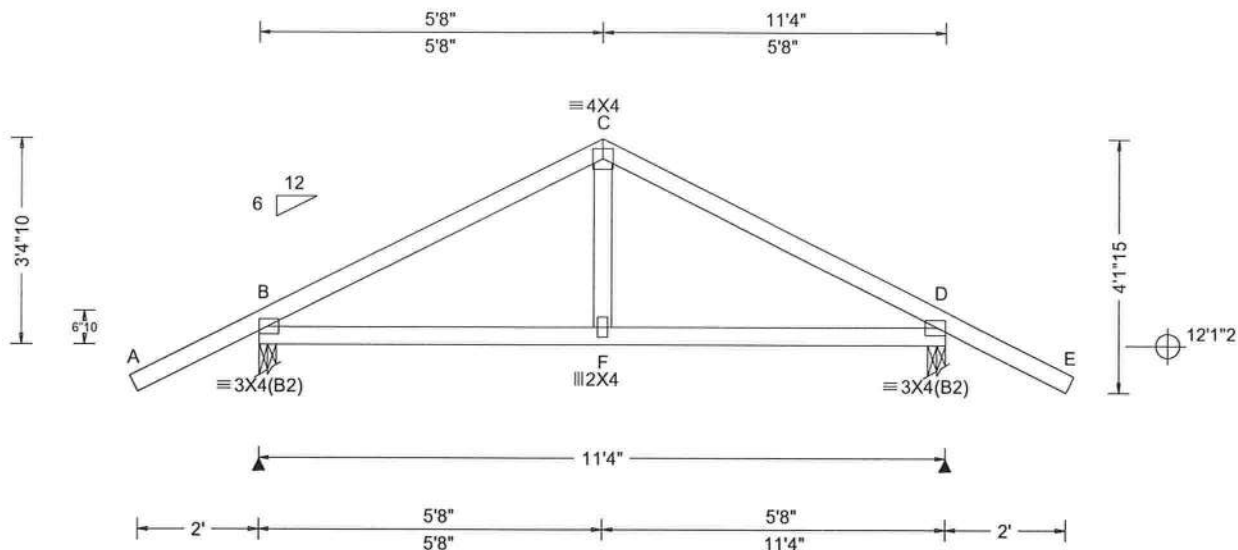
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105828 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55151a Thorton Res Truss Label: T 5	Cust: R 857 JRef: 1XdX8570001 T9 DrwNo: 077.22.1519.51387 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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 7th Ed. 2020 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): 0.012 F 999 360 VERT(CL): 0.021 F 999 240 HORZ(LL): 0.005 D HORZ(TL): 0.009 D Creep Factor: 2.0 Max TC CSI: 0.512 Max BC CSI: 0.206 Max Web CSI: 0.091 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 553 / / /342 /119 /127 D 553 / / /342 /119 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 3.5 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 316 508 C D 317 508 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B F 387 78 F D 387 78

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	2.07	5.67
TC	75	5.67	13.40
BC	120	0.13	11.20

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

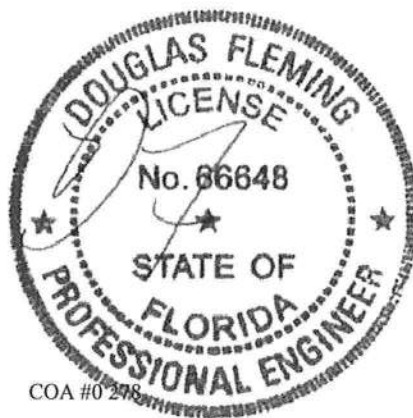
Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0298
03/18/2022

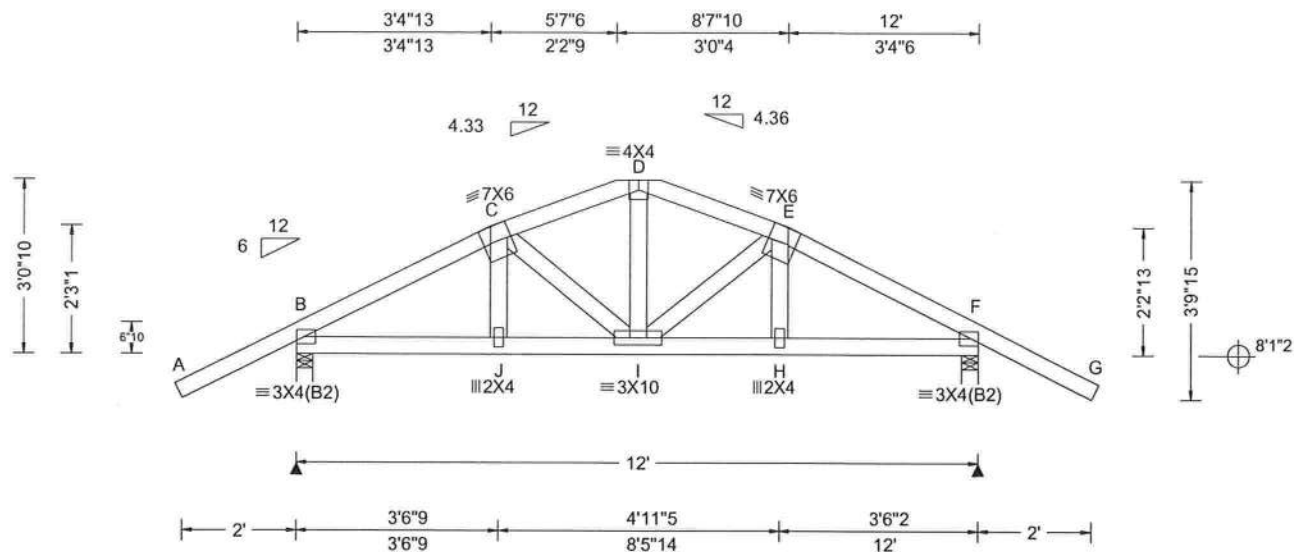
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105850 FROM: RNB	COMN Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: TG 1	Cust: R 857 JRef: 1XdX8570001 T2 DrwNo: 077.22.1519.48330 KD / DF 03/18/2022
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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: 130 mph		Pf: NA Ce: NA		VERT(LL): 0.042 I 999 360		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.076 I 999 240		B	1020	/	/	/	/223	/
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.020 F		F	1019	/	/	/	/222	/
Des Ld: 37.00		EXP: C Kzt: NA		Building Code:		HORZ(TL): 0.036 F		Wind reactions based on MWFRS						
NCBCLL: 10.00		Mean Height: 15.00 ft		FBC 7th Ed. 2020 Res.		Creep Factor: 2.0		B Brg Wid = 3.5 Min Req = 1.5						
Soffit: 2.00		TCDL: 4.2 psf		TPI Std: 2014		Max TC CSI: 0.998		F Brg Wid = 3.5 Min Req = 1.5						
Load Duration: 1.25		BCDL: 6.0 psf		Rep Fac: Varies by Ld Case		Max BC CSI: 0.560		Bearings B & F Fcperp = 425psi.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		FT/RT:20(0)/0(0)		Max Web CSI: 0.168		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft		Plate Type(s):		VIEW Ver: 21.01.03A.0805.15		Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 4.50 ft		WAVE				Chords Tens.Comp. Chords Tens. Comp.						
		GCpi: 0.18						B	C	260	1408	D	E	253 1322
		Wind Duration: 1.60												

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	56 plf at	2.13 to	56 plf at	3.40
TC: From	27 plf at	3.40 to	27 plf at	6.00
TC: From	27 plf at	6.00 to	27 plf at	8.64
TC: From	56 plf at	8.64 to	56 plf at	14.13
BC: From	4 plf at	2.13 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	3.40
BC: From	10 plf at	3.40 to	10 plf at	8.64
BC: From	20 plf at	8.64 to	20 plf at	12.00
BC: From	4 plf at	12.00 to	4 plf at	14.13
TC:	68 lb Conc. Load at	3.40		
TC:	95 lb Conc. Load at	5.00, 6.99		
TC:	37 lb Conc. Load at	5.62, 6.39		
TC:	111 lb Conc. Load at	6.00		
TC:	67 lb Conc. Load at	8.64		
BC:	65 lb Conc. Load at	3.40, 8.64		
BC:	82 lb Conc. Load at	5.00, 6.99		
BC:	94 lb Conc. Load at	5.62, 6.39		
BC:	92 lb Conc. Load at	6.00		

Plating Notes

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

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

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	48	2.07	3.40
TC	33	3.40	6.00
TC	34	6.00	8.64
TC	48	8.64	14.07
BC	120	0.13	11.87

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B J	1184 205	I H	1183 198
J I	1186 198	H F	1181 204

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D I	440 0



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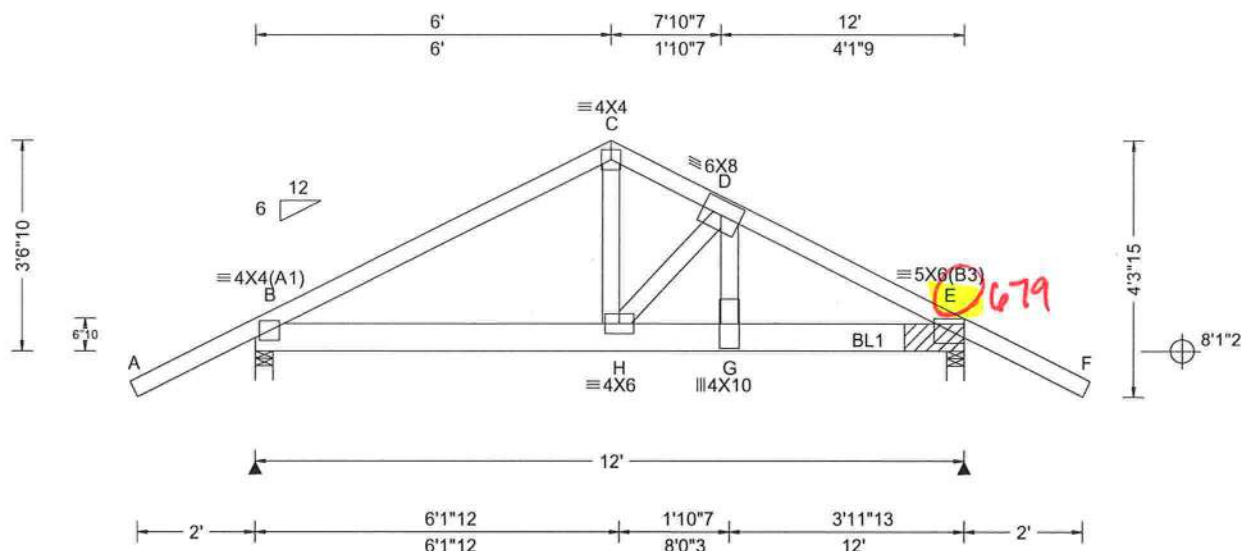
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Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A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

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105808 FROM: RNB	COMN Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: TG 2	Cust: R 857 JRef: 1XdX8570001 T32 DrwNo: 077.22.1519.00623 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 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 7th Ed. 2020 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): 0.064 G 999 360 VERT(CL): 0.116 G 999 240 HORZ(LL): 0.016 E HORZ(TL): 0.029 E Creep Factor: 2.0 Max TC CSI: 0.979 Max BC CSI: 0.980 Max Web CSI: 0.942 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1437 / / / / /353 / E 2848 / / / / /679 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.8 E Brg Wid = 3.5 Min Req = Bearings B & E 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 537 2259 D E 952 4024 C D 517 2256

Lumber

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 56 plf at 2.13 to 56 plf at 14.13	BC: From 4 plf at 2.13 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.06	BC: From 10 plf at 8.06 to 10 plf at 12.00
BC: From 4 plf at 12.00 to 4 plf at 14.13	BC: 2227 lb Conc. Load at 8.06
BC: 941 lb Conc. Load at 10.06	

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	2.07	6.00
TC	29	6.00	14.07
BC	99	0.15	11.85

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

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

THIS TRUSS MUST BE INSTALLED AS SHOWN
AND NOT END FOR END.

Bearing Block(s)

Brg blocks:0.128"x3", min. nails
brg x loc #blocks length/blk #nails/blk wall plate
2 11.708' 1 12" 4 SPF Standard
Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B H	1947	G E	3528 823
H G	3437		802

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C H	1732 343	D G	2473 571
H D	536 2229		



COA #0 248

03/18/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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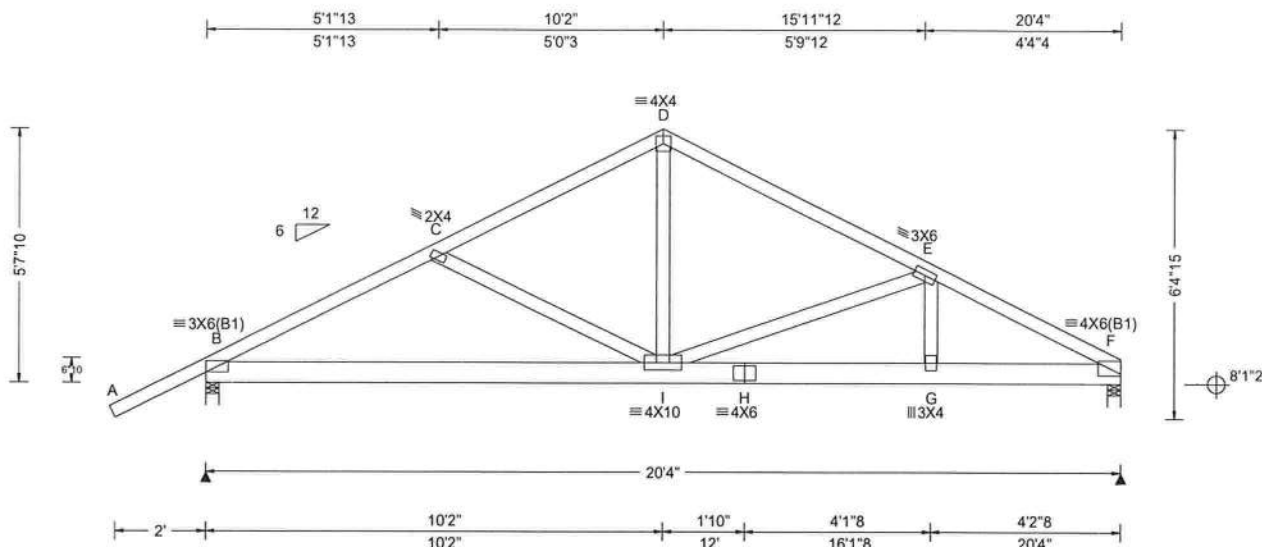
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 105701 FROM: RNB	COMN Ply: 1 Qty: 1	Job Number: B55151a Thorton Res Truss Label: TG 3	Cust: R 857 JRef: 1XdX8570001 T19 DrwNo: 077.22.1516.45257 KD / DF 03/18/2022
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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: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCPl: 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 7th Ed. 2020 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/defl L/# VERT(LL): 0.074 I 999 360 VERT(CL): 0.133 I 999 240 HORZ(LL): 0.022 F HORZ(TL): 0.040 F Creep Factor: 2.0 Max TC CSI: 0.979 Max BC CSI: 1.000 Max Web CSI: 0.698 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1476 / / / / /360 / F 1763 / / / / /402 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.9 F Brg Wid = 3.5 Min Req = 2.2 Bearings B & F 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 589 2272 D E 482 2033 C D 472 2015 E F 726 2984

Lumber

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 2.13 to 56 plf at 8.06
TC: From 28 plf at 8.06 to 28 plf at 10.17
TC: From 56 plf at 10.17 to 56 plf at 20.33
BC: From 4 plf at 2.13 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.06
BC: From 10 plf at 8.06 to 10 plf at 18.06
BC: From 20 plf at 18.06 to 20 plf at 20.33
BC: 500 lb Conc. Load at 8.06
BC: 262 lb Conc. Load at 10.06
BC: 46 lb Conc. Load at 12.06
BC: 297 lb Conc. Load at 14.06
BC: 317 lb Conc. Load at 16.06
BC: 312 lb Conc. Load at 18.06

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	43	2.07	10.17
TC	38	10.17	20.33
BC	115	0.15	20.19

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

Wind

Wind loads and reactions based on MWFRS.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B I	1971 496	H G	2602 627
I H	2602 627	G F	2620 630

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D I	1472 271	E G	515 76
I E	243 908		



COA #0 248

03/18/2022

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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: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



6750 Forum Drive
Suite 305
Orlando FL, 32821

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

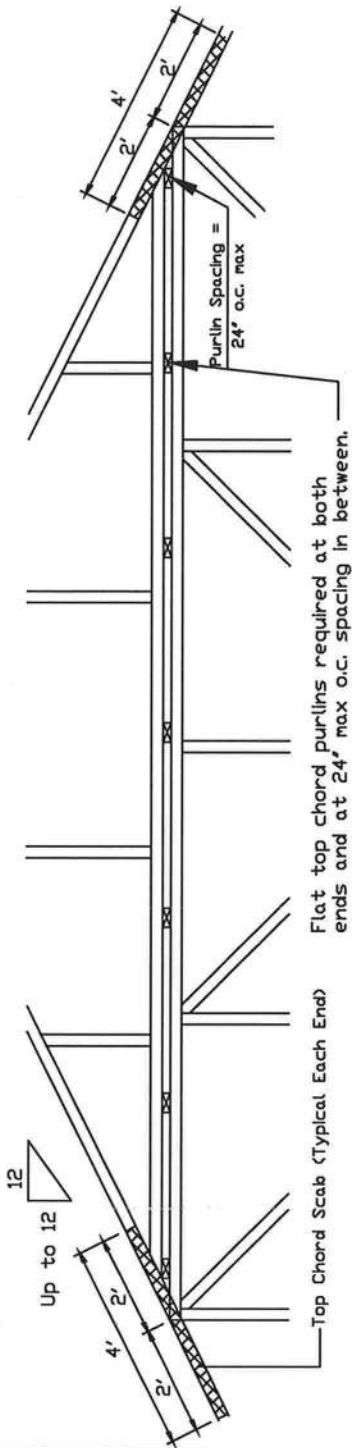
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Vind DL= 5.0 psf (min), Kzt=1.0
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0

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

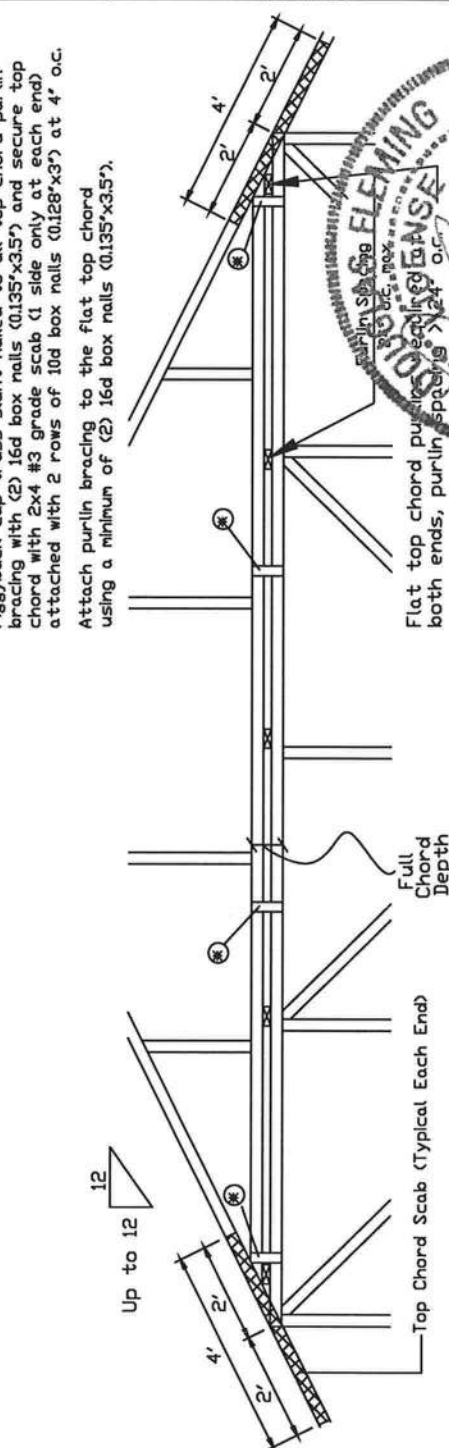


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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 attached 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 truss, purlins must be installed at 24' o.c. max. and use Detail A.

* 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 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.



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115141 Earth City Expressway
Suite 242
Earth City, MO 63045

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For more information see this job's general notes page and these web sites
ALPINE: www.alpineitw.com TPI: www.tpi.org SBCA: www.sbcacomponents.com ICD: www.icdusa.org

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 66848
01/02/2018

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.

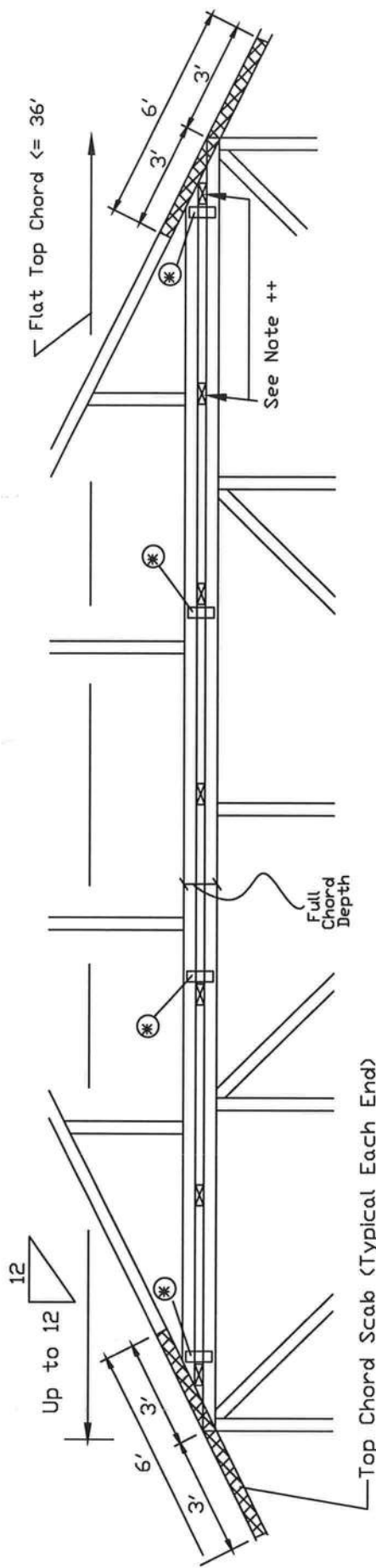
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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 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.	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.
APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) #4 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, evenly spaced along chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.



ALPINE AN ITW COMPANY 115141 Earth City Expressway Suite 242 Earth City, MO 63045	IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING Trusses require extreme care in fabricating, handling, shipping, installation and bracing. Refer to 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 truss and position of sheathing shall be as shown. Refer to drawings 1500-2 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. A seal on this drawing or cover page listing this drawing indicates acceptance of professional 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 Sec2. For more information see this job's general notes page and these web sites: ALPINE: www.alpinecorp.com TPI: www.tpi.org SBCA: www.sbcacorp.com ICD: www.icdcorp.com	REF	PIGGYBACK
		DATE	01/02/2018
		DRWG	PB180160118
		SPACING	24.0'

Cracked or Broken Member Repair Detail

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.

(CB) = 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) = $(2)(L) + (CB)$

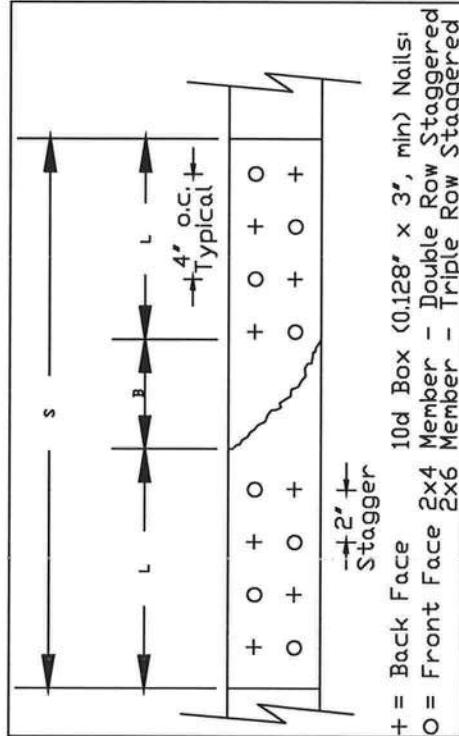
Scab member length (S) must be within the broken panel.
Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.
Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

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

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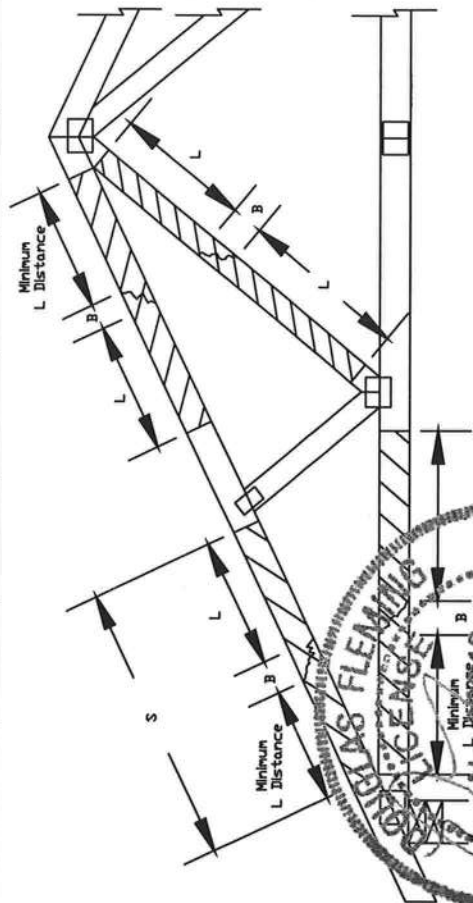
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For more information see this job's general notes page and these web sites:
ALPINE: www.alpinehvac.com TPI: www.tpi.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org



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115141 Earth City Expressway
Suite 242
Earth City, MO 63045

Maximum Member Axial Force						
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#



REF	MEMBER REPAIR
DATE	10/01/14
DRWG	REPCHRD1014

SPACING	24.0"	MAX
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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)

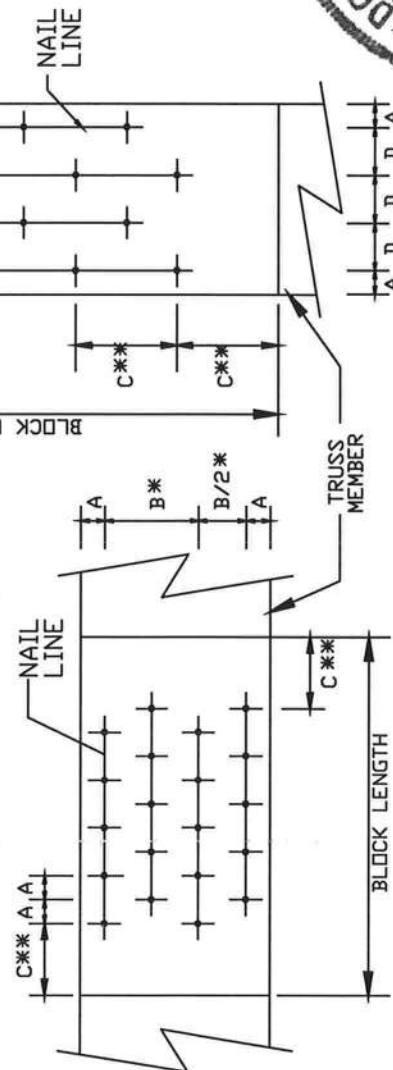
LOAD PARALLEL TO GRAIN

- 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

11514 Earth City Expressway
Suite 242
Earth City, MO 63045

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING

FURNISH 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 practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached sheathing and bottom chord shall have a properly attached roof ceiling. Load spans shown for permanent lateral restraint. Refer to drawings 160A-Z 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.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design of the truss. The seal of the professional 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.alpine.com TPI: www.tpi.com SBCA: www.sbcacomponents.com IBC: www.ibc-safe.org

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"

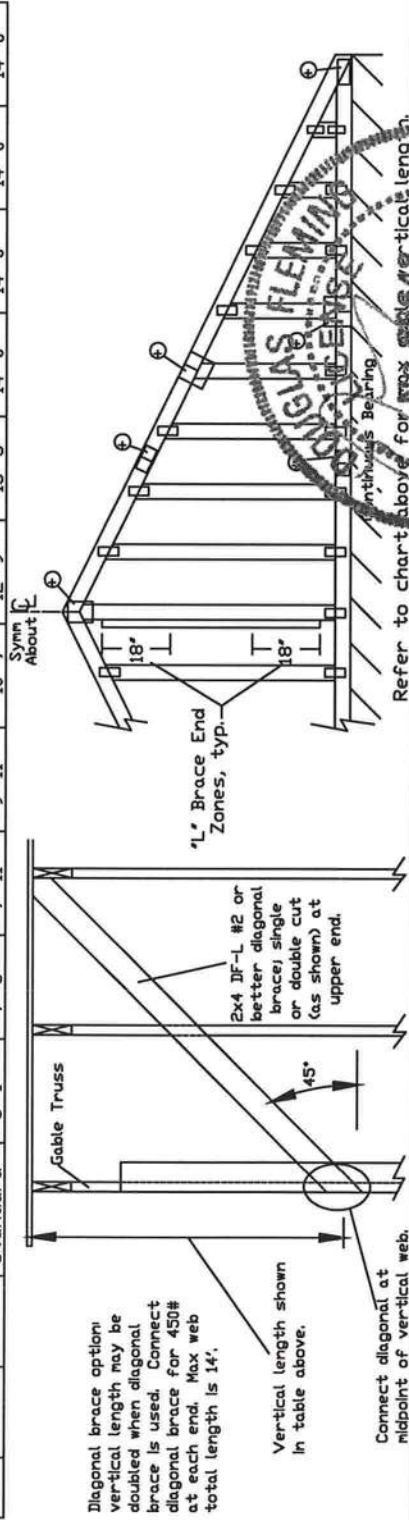


Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	Gable Vertical Spacing	Brace Species / Grade	No Braces		(1) 1x4 "L" Brace		(2) 2x4 "L" Brace		(3) 2x6 "L" Brace		(4) 2x6 "L" Brace		(5) 2x6 "L" Brace	
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
12" O.C.	SPF	#1 / #2	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	Stud	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	SP	#2	4' 6"	7' 4"	8' 8"	8' 8"	9' 0"	10' 4"	13' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#3	4' 3"	7' 3"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	Stud	4' 2"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SPF	#1 / #2	4' 0"	5' 3"	7' 7"	7' 6"	9' 6"	10' 2"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	HF	#3	4' 11"	8' 4"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	Stud	4' 8"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	5' 1"	8' 5"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	9' 0"	9' 4"	10' 8"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	5' 1"	9' 0"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	Stud	5' 1"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 8"	9' 3"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	HF	#2	5' 5"	9' 2"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	Stud	5' 3"	8' 5"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#3	5' 3"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	Standard	5' 1"	7' 5"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



ALPINE AN ITW COMPANY

11514 Earth City Expressway
Suite 212
Earth City, MO 63045

Refer to chart above for 18' 6" vertical length.

Refer to the Building Designer for conditions not addressed by this detail.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

Bracing Group Species and Grades:			
Group A:		Group B:	
Species-Pine-Fir	Hein-Fir	Species-Pine-Fir	Hein-Fir
#1 / #2 Standard	#2 Stud	#1 / #2 Standard	#2 Stud
#3 Standard	#3 Standard	#3 Standard	#3 Standard
Douglas Fir-Larch		Southern Pine	
#3 Standard	#3 Standard	#3 Standard	#3 Standard
Douglas Fir-Larch		Southern Pine	
#1 #2	#1 #2	#1 #2	#1 #2

1x4 Braces shall be SRB (Stress-Rated Board).
For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.
For (1) "L" brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
For (2) "L" brace: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

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

Refer to the Building Designer for conditions not addressed by this detail.

DISCLAIMER: 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 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 trusses shall be as shown on drawings. Permanent bracing shall be as applicable. Apply plates to ends of truss and position as shown above and on the left 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 use of this drawing.

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 Sec2.

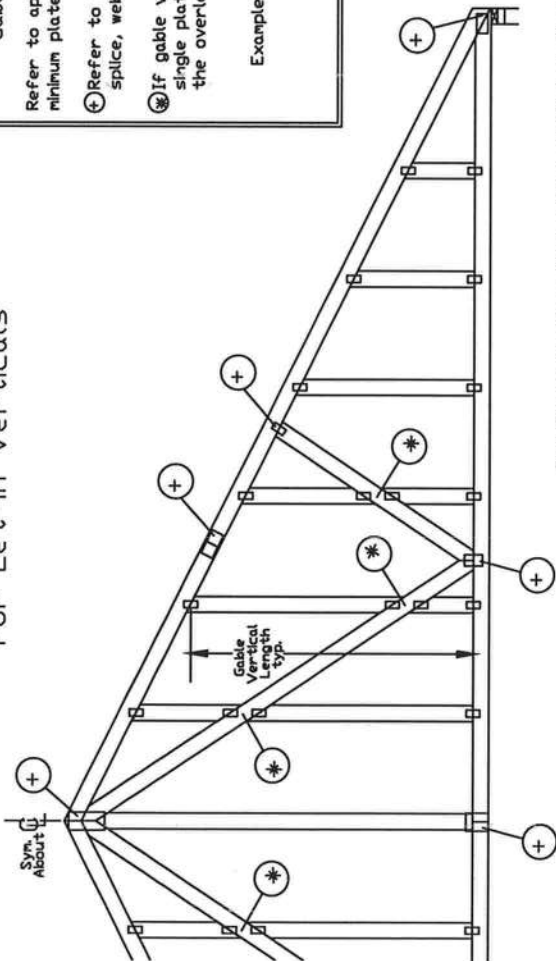
For more information see this job's general notes page and these web sites:
ALPINE: www.alpine.com TPI: www.tpi.org SBCA: www.sbcacomponents.com IBC: www.icbc.org

STATE OF FLORIDA

PROFESSIONAL ENGINEER

03110002

Gable Detail For Let-In Verticals



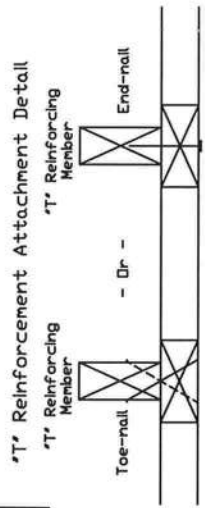
Gable Truss Plate Sizes

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.

Example:



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. Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example:
 ASCE 7-10 Wind Speed = 120 mph
 Mean Roof Height = 30 ft, Kzt = 1.00
 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

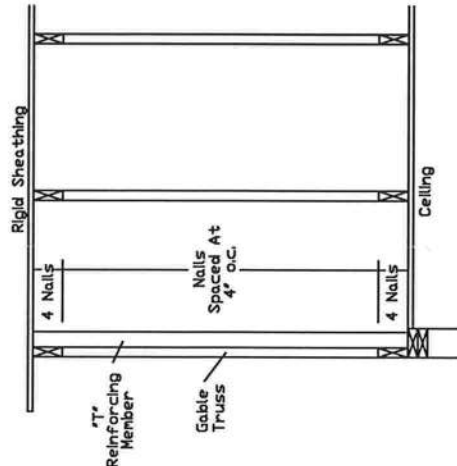
End Driven Nails:

- 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, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, 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

See appropriate Alpine gable detail for maximum reinforced gable vertical length.

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 ICC Building Component Safety Information, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per SBCI. 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 plates are for reference only. Refer to drawings for details, unless noted otherwise.

Refer to drawings 1604-2 for standard plate positions.

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

STATE OF FLORIDA

PROFESSIONAL ENGINEER

No. 66648

DATE 01/02/2018

DRWG GBLLETIN0118

REF LET-IN VERT

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

Job Name: Thorton Res
Customer: Erkinger Home Builders
Designer: Rodney Barone
PlanName:
Created : 03-16-2022
SemRef# : B55151a

