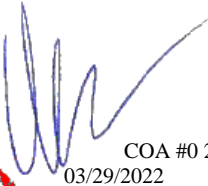


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COA #0 278
03/29/2022



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



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7038
Job Description: Culverhouse	
Address:	

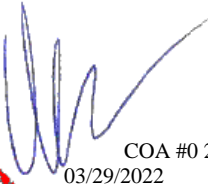
Job Engineering Criteria:
Design Code: FBC 7th Ed. 2020 Res.
IntelliVIEW Version: 21.02.00 through 21.02.01
JRef #: 1Xe92150011
Wind Standard: ASCE 7-16 Wind Speed (mph): 130
Design Loading (psf): 40.00
Building Type: Closed

This package contains general notes pages, 60 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	088.22.1537.53060	A01
3	088.22.1536.47973	A03
5	088.22.1535.55230	A05
7	088.22.1535.50697	A07
9	088.22.1535.45787	A09
11	088.22.1535.35083	A11
13	088.22.1535.20370	A13
15	088.22.1535.09180	A15
17	088.22.1535.05163	A17
19	088.22.1535.01063	A19
21	088.22.1534.22757	A21
23	088.22.1534.18210	B02
25	088.22.1533.28137	B04
27	088.22.1533.25147	B07
29	088.22.1533.21137	B09
31	088.22.1533.18093	B11
33	088.22.1533.14977	B13
35	088.22.1533.11893	B15
37	088.22.1533.08203	B17
39	088.22.1533.02633	B19
41	088.22.1532.58570	B21
43	088.22.1532.54150	B23
45	088.22.1532.49513	B25
47	088.22.1532.44230	B27
49	088.22.1531.56127	J01
51	088.22.1531.51120	J02

Item	Drawing Number	Truss
2	088.22.1536.53787	A02
4	088.22.1536.22980	A04
6	088.22.1535.53140	A06
8	088.22.1535.48460	A08
10	088.22.1535.43690	A10
12	088.22.1535.32070	A12
14	088.22.1535.11503	A14
16	088.22.1535.07093	A16
18	088.22.1535.03357	A18
20	088.22.1534.58987	A20
22	088.22.1534.20163	B01
24	088.22.1533.29613	B03
26	088.22.1533.26753	B06
28	088.22.1533.23257	B08
30	088.22.1533.19587	B10
32	088.22.1533.16597	B12
34	088.22.1533.13460	B14
36	088.22.1533.10060	B16
38	088.22.1533.04487	B18
40	088.22.1533.00430	B20
42	088.22.1532.56373	B22
44	088.22.1532.51760	B24
46	088.22.1532.46860	B26
48	088.22.1531.58503	B28
50	088.22.1531.54420	J01HJ
52	088.22.1531.49497	J03

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Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7038
Job Description: Culverhouse	
Address:	

Item	Drawing Number	Truss
53	088.22.1531.47623	J04
55	088.22.1531.43130	J07
57	088.22.1531.39573	PB01
59	088.22.1531.36700	PB03
61	A14030ENC160118	
63	PB160160118	
65	BRCLBSUB0119	

Item	Drawing Number	Truss
54	088.22.1531.44817	J06
56	088.22.1531.41430	J08
58	088.22.1531.38173	PB02
60	088.22.1531.35123	PB04
62	GBLLETIN0118	
64	A14015ENC160118	

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.

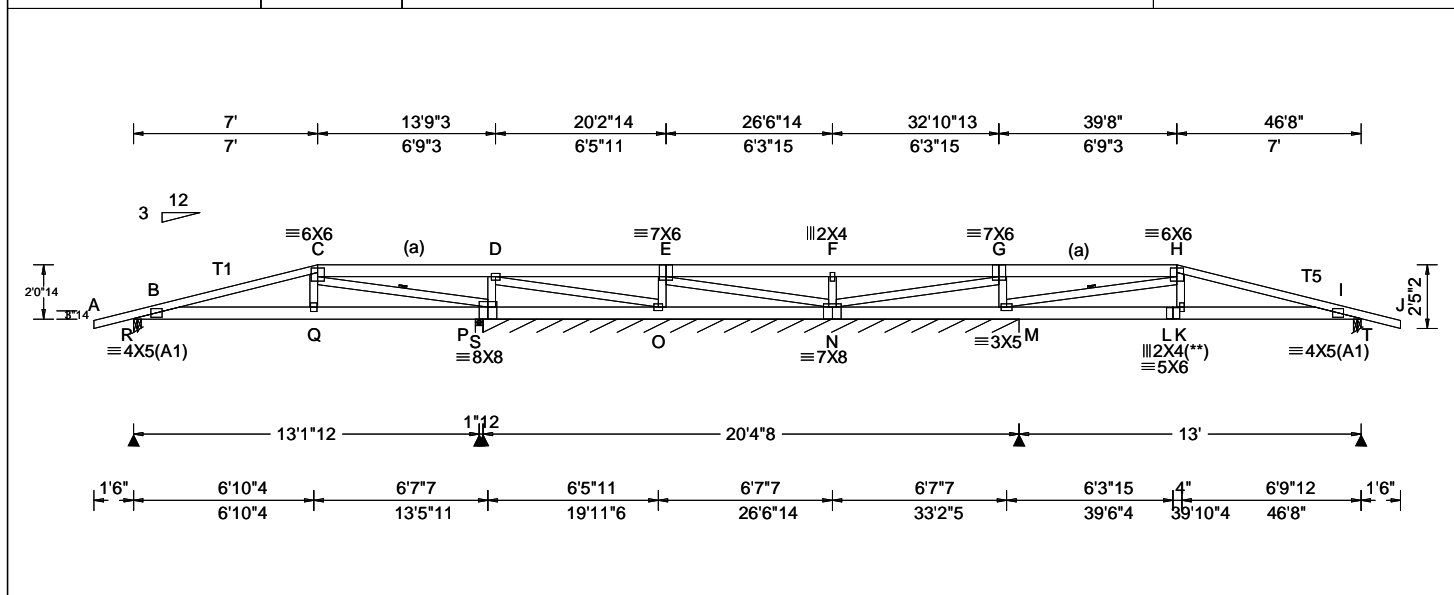
Refer to ASCE-7 for Wind and Seismic abbreviations.

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: 85020 FROM:	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A01	Cust: R 215 JRef: 1Xe92150011 T1 DrwNo: 088.22.1537.53060 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 6.50 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.079 Q 999 240 VERT(CL): 0.158 Q 989 180 HORZ(LL): 0.015 I - - HORZ(TL): 0.030 I - - Creep Factor: 2.0 Max TC CSI: 0.633 Max BC CSI: 0.351 Max Web CSI: 0.758 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity R 897 -/- /- /118 -/ S 1061 -/- /- /31 -/ S* 271 -/- /- /36 -/ T 653 -/- /- /91 -/ Wind reactions based on MWFRS R Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 244 Min Req = - T Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings R, S, S, & T are a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x6 SP 2400F-2.0E; T1,T5 2x4 SP #2;
Bot chord: 2x6 SP 2400F-2.0E;
Webs: 2x4 SP #3;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 61 plf at -1.50 to 61 plf at 7.00
TC: From 30 plf at 7.00 to 30 plf at 39.67
TC: From 61 plf at 39.67 to 61 plf at 48.17
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.00
BC: From 10 plf at 7.00 to 10 plf at 39.52
BC: From 20 plf at 39.52 to 20 plf at 46.67
BC: From 4 plf at 46.67 to 4 plf at 48.17
TC: 295 lb Conc. Load at 7.00
TC: 179 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.60
31.60,33.60,35.60,37.60
BC: 314 lb Conc. Load at 7.00
BC: 125 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.60
31.60,33.60,35.60,37.60

Plating Notes
All plates are 3X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	228 -2139	H - I	121 -1199
C - D	576 -73		

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	2040 -210	M - L	1102 -109
Q - P	3994 -428	L - K	1102 -109
P - O	31 -402	K - I	1125 -106

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	483 0	F - N	206 -806
C - P	296 -2641	G - M	224 -914
P - D	233 -977	M - H	157 -1497
O - E	205 -813		

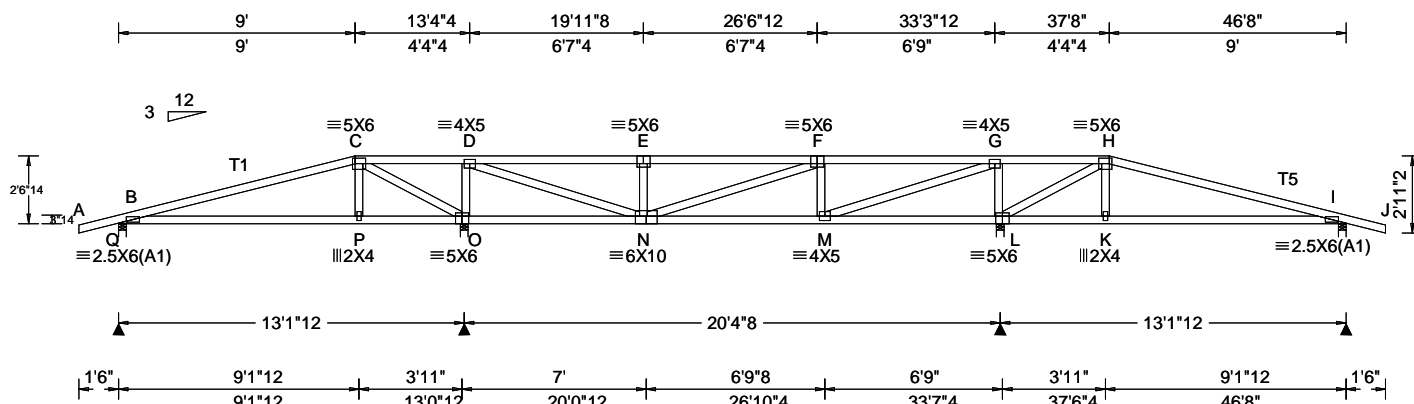


COA #0278
03/29/2022

****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.
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



SEQN: 57431 FROM:	HIPS Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A02	Cust: R 215 JRRef: 1Xe92150011 T10 DrwNo: 088.22.1536.53787 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.67 ft Loc. from endwall: not in 6.50 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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.085 I 999 240 VERT(CL): 0.167 B 930 180 HORZ(LL): -0.026 I - - HORZ(TL): 0.057 I - - Creep Factor: 2.0 Max TC CSI: 0.581 Max BC CSI: 0.670 Max Web CSI: 0.637 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 549 - / - / - /249 /63 /22 O 1498 - / - / - /757 /174 - /- L 1506 - / - / - /760 /173 - /- I 548 - / - / - /249 /63 - /- Wind reactions based on MWFRS Q Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.8 L Brg Wid = 3.5 Min Req = 1.8 I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q, O, L, & I are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2; T1,T5 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	192 -439	F - G	238 -925
C - D	757 -121	G - H	776 -122
D - E	248 -970	H - I	205 -433
E - F	248 -970		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	381 -155	M - L	158 -656
O - N	160 -638	L - K	376 -167
N - M	977 -183		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	214 -1023	F - M	153 -412
O - D	311 -938	M - G	1649 -325
D - N	1673 -339	G - L	311 -946
E - N	158 -406	L - H	213 -1031



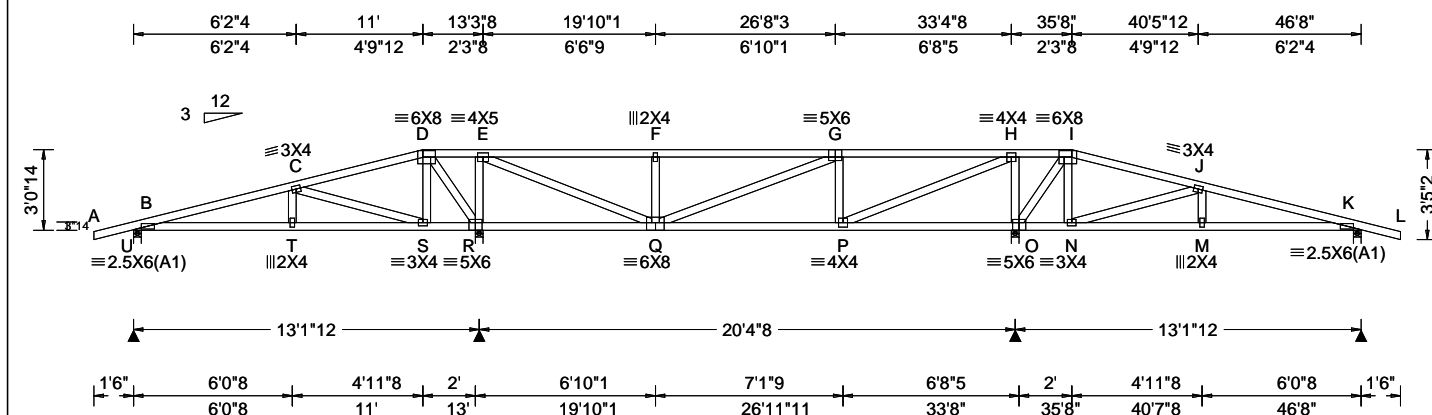
COA #0278

03/29/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacompoments.com; ICC: iccsafe.org; AWC: awc.org

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SEQN: 57435 FROM:	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A03	Cust: R 215 JRRef: 1Xe92150011 T12 DrwNo: 088.22.1536.47973 KD / WHK 03/29/2022
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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: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.67 ft Loc. from endwall: not in 6.50 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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.038 F 999 240 VERT(CL): 0.082 F 999 180 HORZ(LL): -0.006 K - - HORZ(TL): 0.014 K - - Creep Factor: 2.0 Max TC CSI: 0.589 Max BC CSI: 0.153 Max Web CSI: 0.571 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL U 477 - / - / - /215 /52 /24 R 1596 - / - / - /796 /184 - /- O 1595 - / - / - /794 /182 - /- K 477 - / - / - /218 /53 - /- Wind reactions based on MWFRS U Brg Wid = 3.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings U, R, O, & K are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

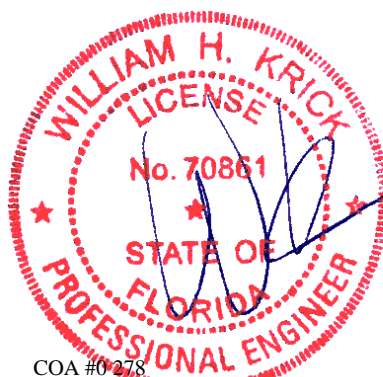
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



COA #0278

03/29/2022

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	97 -629	G - H	200 -606
C - D	577 -100	H - I	922 -157
D - E	924 -163	I - J	576 -94
E - F	212 -637	J - K	101 -626
F - G	212 -637		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	581 -52	P - O	235 -824
T - S	571 -54	O - N	174 -533
S - R	179 -533	N - M	568 -59
R - Q	242 -826	M - K	578 -57
Q - P	646 -148		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - S	239 -923	G - P	165 -447
D - R	160 -668	P - H	1460 -298
R - E	307 -931	H - O	307 -938
E - Q	1499 -319	O - I	156 -666
F - Q	183 -415	N - J	239 -923

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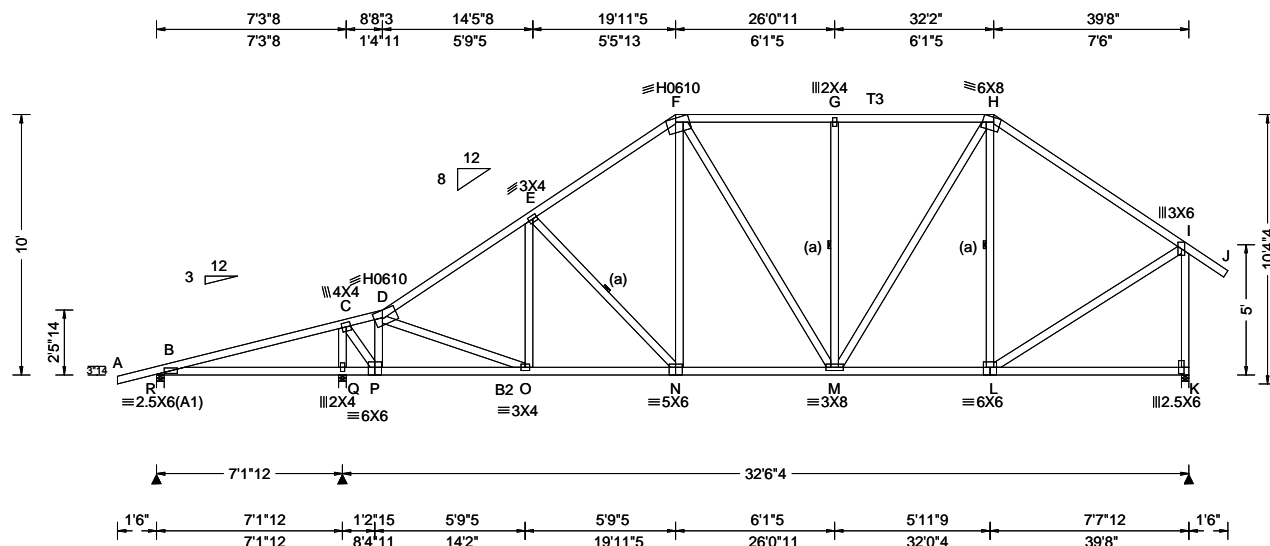
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 84888 FROM:	COMN Ply: 1 Qty: 2	Job Number: 22-7038 Culverhouse Truss Label: A05	Cust: R 215 JRRef: 1Xe92150011 T142 DrwNo: 088.22.1535.55230 KD / WHK 03/29/2022
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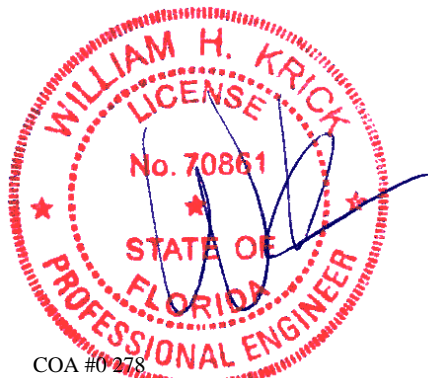
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.053 G 999 240 VERT(CL): 0.102 G 999 180 HORZ(LL): 0.016 E - - HORZ(TL): 0.031 E - - Creep Factor: 2.0 Max TC CSI: 0.539 Max BC CSI: 0.535 Max Web CSI: 0.723 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL R 319 - / - / /113 /67 /204 Q 1912 - / - / /1004 - / - K 1595 - / - / /738 - / - Wind reactions based on MWFRS R Brg Wid = 3.5 Min Req = 1.5 (Truss) Q Brg Wid = 3.5 Min Req = 1.9 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings R, Q, & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Reactions (lbs)
Top chord: 2x4 SP M-31; T3 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3;	B - C 421 -102 F - G 45 -1266 C - D 1 -515 G - H 45 -1266 D - E 33 -1689 H - I 46 -1262 E - F 56 -1558

Bracing	Maximum Bot Chord Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Chords Tens.Comp. Chords Tens. Comp. B - Q 0 -386 N - M 1210 0 P - O 632 -45 M - L 951 0 O - N 1335 -11

Loading	Maximum Web Forces Per Ply (lbs)
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	Webs Tens.Comp. Webs Tens. Comp. Q - C 114 -1700 M - H 591 0 C - P 1443 -31 L - I 1120 0 P - D 46 -1246 I - K 64 -1539 D - O 766 0

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads based on MWFRS with additional C&C member design. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	Webs Tens.Comp. Webs Tens. Comp. Q - C 114 -1700 M - H 591 0 C - P 1443 -31 L - I 1120 0 P - D 46 -1246 I - K 64 -1539 D - O 766 0



COA #0278

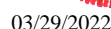
03/29/2022

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Lumber				
Top chord: 2x4 SP #2; T4 2x4 SP M-31;	B - C	469 - 167	F - G	364 - 1074
Bot chord: 2x4 SP #2;	C - D	55 - 496	G - H	364 - 1074
Webs: 2x4 SP #3;	D - E	298 - 1528	H - I	282 - 1096
	E - F	364 - 1357		

Wind loading based on both gable and hip roof types.

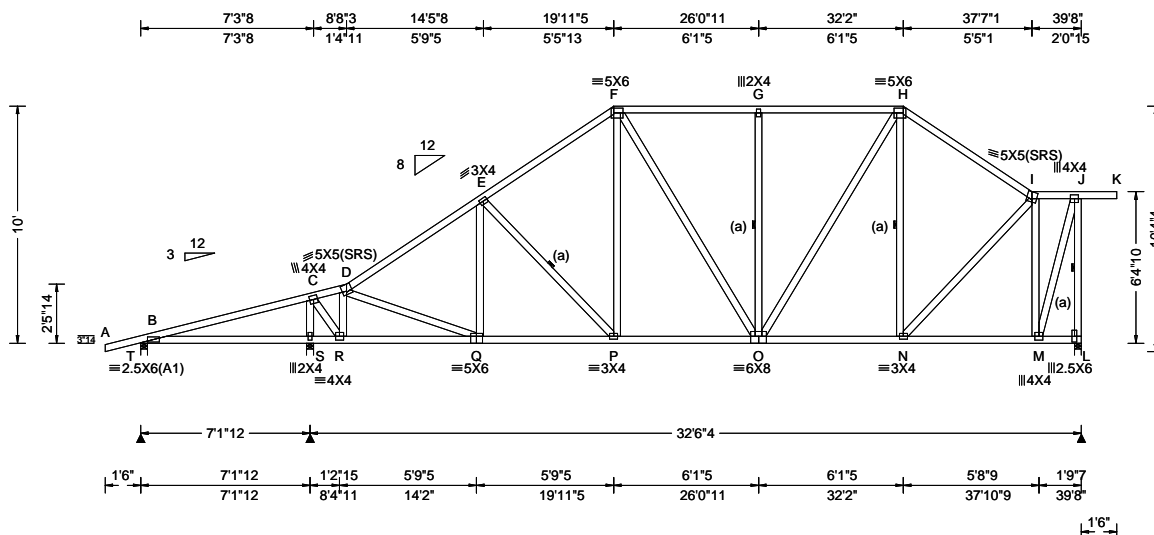
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
P - C	341	-1585	L - H	482	-152
C - O	1380	-265	K - I	983	-193
O - D	244	-1134	J - I	294	-1263
D - N	650	-127			



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SEQN: 57471 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A07	Cust: R 215 JRRef: 1Xe92150011 T140 DrwNo: 088.22.1535.50697 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.054 G 999 240 VERT(CL): 0.109 G 999 180 HORZ(LL): 0.017 E - - HORZ(TL): 0.033 E - - Creep Factor: 2.0 Max TC CSI: 0.584 Max BC CSI: 0.476 Max Web CSI: 0.845 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL T 321 - / - / - /102 /52 /174 S 1792 - / - / - /1031 /64 - /- L 1404 - / - / - /735 /106 - /- Non-Gravity T Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 1.7 (Truss) L Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings T, S, & L are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	462 -190	F - G	349 -1065
C - D	21 -402	G - H	349 -1065
D - E	275 -1490	H - I	276 -1035
E - F	347 -1337		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - S	56 -426	P - O	1026 -237
R - Q	512 -136	O - N	788 -176
Q - P	1169 -273	N - M	419 -94
S - C	342 -1566	O - H	518 -159
C - R	1330 -258	N - I	554 -123
R - D	248 -1152	I - M	303 -1166
D - Q	717 -151	M - J	1291 -282
G - O	210 -380	J - L	354 -1394



COA #0278

03/29/2022

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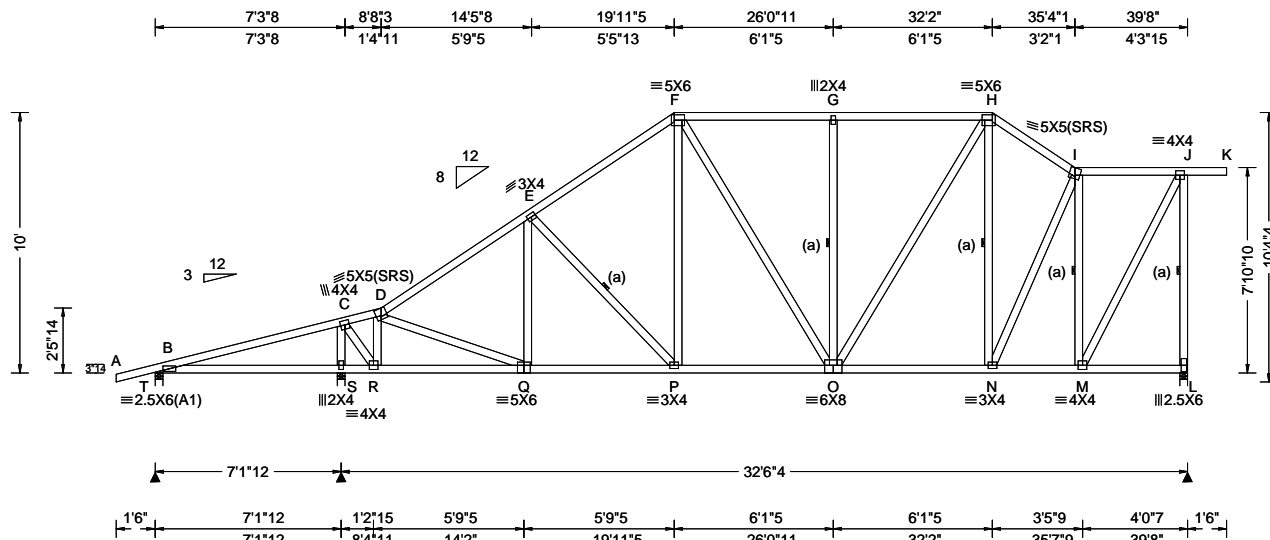
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SEQN: 57475 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A08	Cust: R 215 JRef: 1Xe92150011 T115 DrwNo: 088.22.1535.48460 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.056 G 999 240 VERT(CL): 0.114 G 999 180 HORZ(LL): 0.017 E - - HORZ(TL): 0.035 E - - Creep Factor: 2.0 Max TC CSI: 0.587 Max BC CSI: 0.476 Max Web CSI: 0.507 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL T 319 - / - / - /102 /49 /170 S 1794 - / - / - /1035 /69 - /- L 1396 - / - / - /708 /145 - /- Non-Gravity T Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 1.7 (Truss) L Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings T, S, & L are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

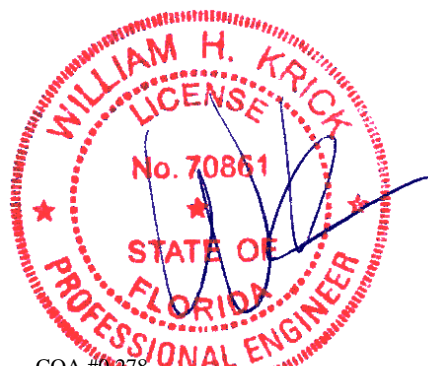
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	472 -217	F - G	340 -1064
C - D	0 -393	G - H	340 -1064
D - E	261 -1486	H - I	275 -990
E - F	337 -1334	I - J	154 -600

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - C	348 -1568	O - H	537 -163
C - R	1331 -260	I - M	314 -1056
R - D	251 -1154	M - J	1277 -328
D - Q	723 -165	J - L	411 -1360
G - O	217 -393		



COA #0278

03/29/2022

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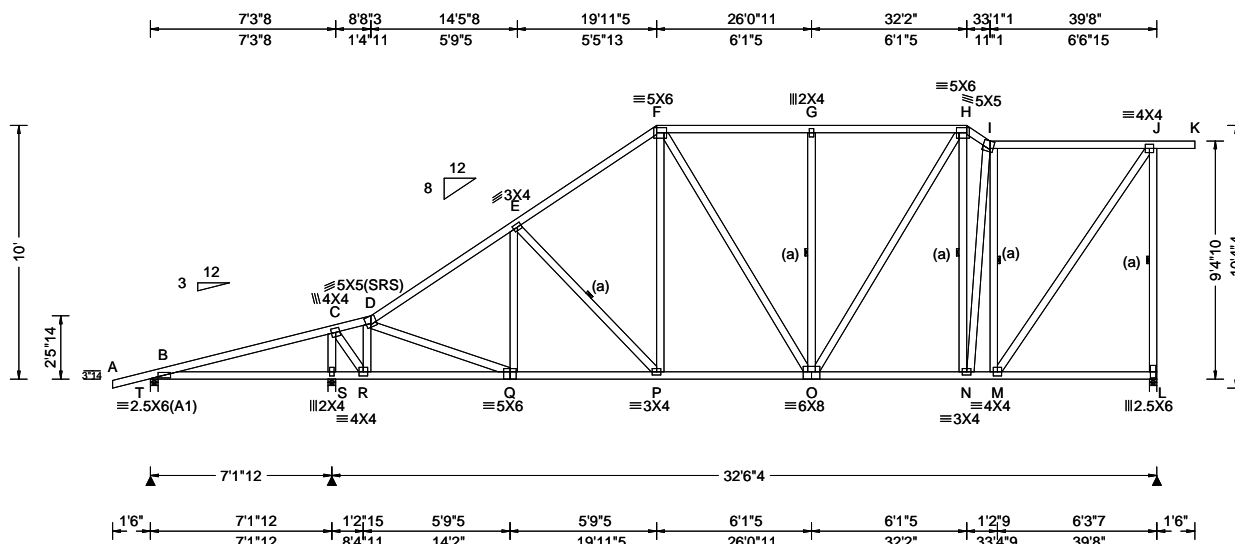
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SEQN: 57481 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A09	Cust: R 215 JRef: 1Xe92150011 T141 DrwNo: 088.22.1535.45787 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.059 G 999 240 VERT(CL): 0.118 G 999 180 HORZ(LL): 0.018 E - - HORZ(TL): 0.036 E - - Creep Factor: 2.0 Max TC CSI: 0.589 Max BC CSI: 0.477 Max Web CSI: 0.880 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL T 318 - / - / - /102 /45 /166 S 1796 - / - / - /1040 /77 /- L 1389 - / - / - /714 /181 /- Non-Gravity T Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 1.7 (Truss) L Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings T, S, & L are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	482 -245	F - G	331 -1062
C - D	0 -384	G - H	331 -1061
D - E	247 -1481	H - I	308 -985
E - F	327 -1331	I - J	216 -734

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - C	352 -1570	O - H	542 -166
C - R	1332 -265	I - M	337 -924
R - D	255 -1155	M - J	1290 -379
D - Q	728 -180	J - L	457 -1340
G - O	217 -393		



COA #0278

03/29/2022

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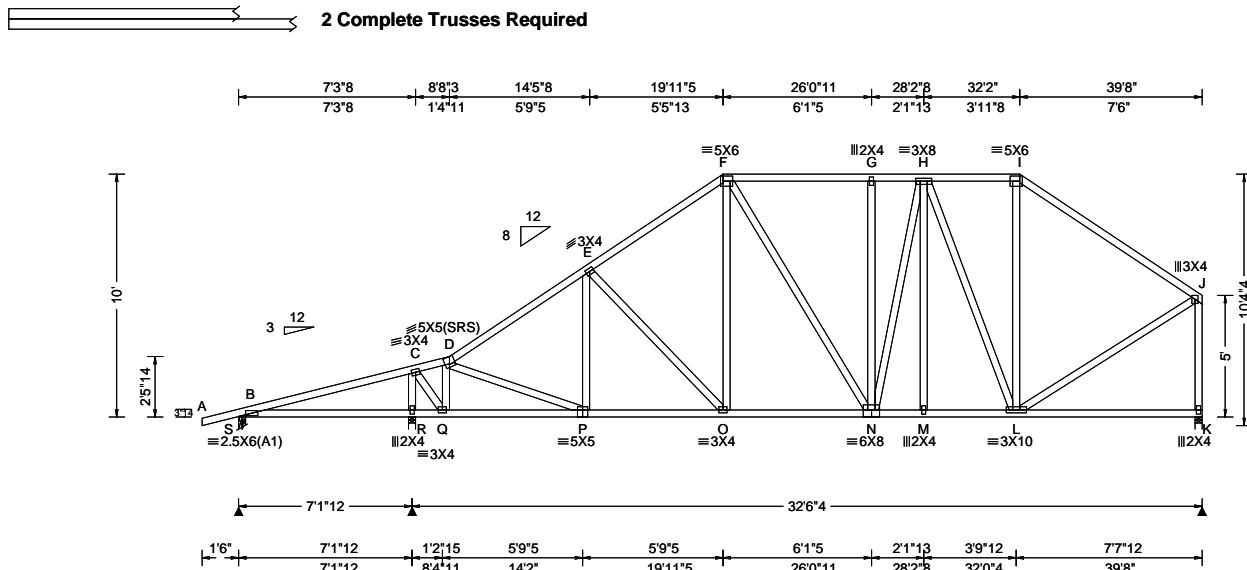
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SEQN: 57783 FROM:	COMN Ply: 2 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A10	Cust: R 215 JRRef: 1Xe92150011 T77 DrwNo: 088.22.1535.43690 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.045 M 999 240 VERT(CL): 0.092 M 999 180 HORZ(LL): 0.013 L - - HORZ(TL): 0.026 L - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.406 Max Web CSI: 0.644 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 265 /-6 /- /- /54 /- R 2367 /- /- /- /159 /- K 2229 /- /- /- /89 /- Non-Gravity S Brg Wid = 3.5 Min Req = 1.5 (Truss) R Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings S, R, & K are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
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

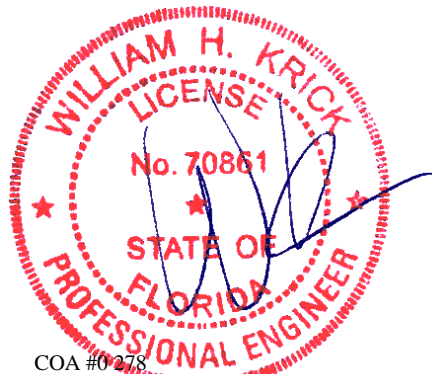
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 61 plf at -1.50 to 61 plf at 8.68
TC: From 64 plf at 8.68 to 64 plf at 39.67
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 39.67
BC: 1400 lb Conc. Load at 28.21

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



COA #0278

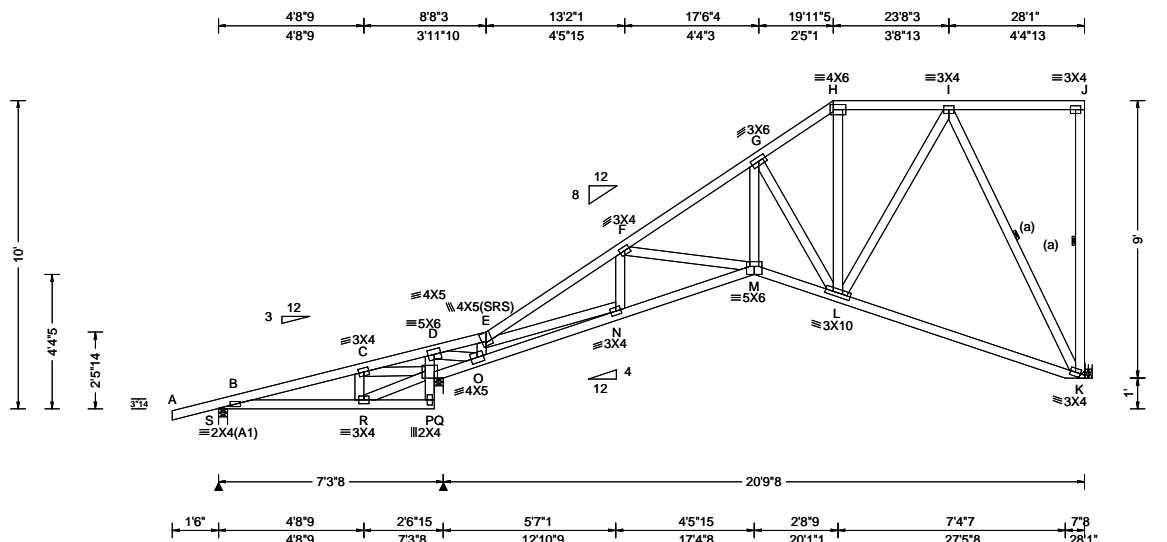
03/29/2022

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6750 Forum Drive
Suite 305
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SEQN: 57767 FROM:	COMN Ply: 1 Qty: 3	Job Number: 22-7038 Culverhouse Truss Label: A11	Cust: R 215 JRef: 1Xe92150011 T143 DrwNo: 088.22.1535.35083 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.068 M 999 240 VERT(CL): 0.141 M 999 180 HORZ(LL): 0.054 K - - HORZ(TL): 0.113 K - - Creep Factor: 2.0 Max TC CSI: 0.464 Max BC CSI: 0.679 Max Web CSI: 0.714 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 307 -/- /- /90 /57 /171 P 1358 -/- /- /802 -/- /- K 858 -/- /- /494 -/- /- Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.5 (Truss) P Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = - Min Req = - Bearings S & P are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.



COA #0278

03/29/2022

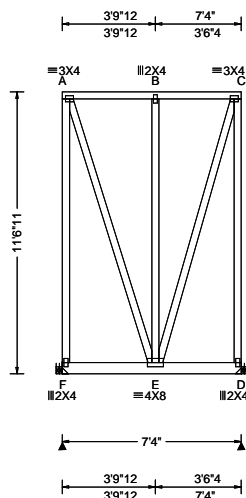
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
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SEQN: 84893	FLAT	Ply: 2	Job Number: 22-7038	Cust: R 215 JRef: 1Xe92150011 T149
FROM:		Qty: 1	Culverhouse	DrwNo: 088.22.1535.32070
			Truss Label: A12	KD / WHK 03/29/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 21.56 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.012 B 999 240 VERT(CL): 0.023 B 999 180 HORZ(LL): 0.002 A - - HORZ(TL): 0.003 A - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.153 Max Web CSI: 0.568 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 1382 -/- /71 -/- D 1484 -/- /79 -/- Wind reactions based on MWFRS F Brg Wid = - Min Req = - D Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - F 0 -499 E - C 538 0 A - E 501 0 C - D 0 -536

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 4.25" 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 30 plf at 0.00 to 30 plf at 7.33
BC: From 10 plf at 0.00 to 10 plf at 7.33
BC: 858 lb Conc. Load at 1.81, 3.81, 5.81

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

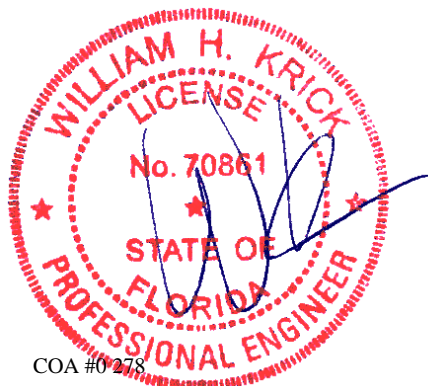
The TC of this truss shall be braced with attached
spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



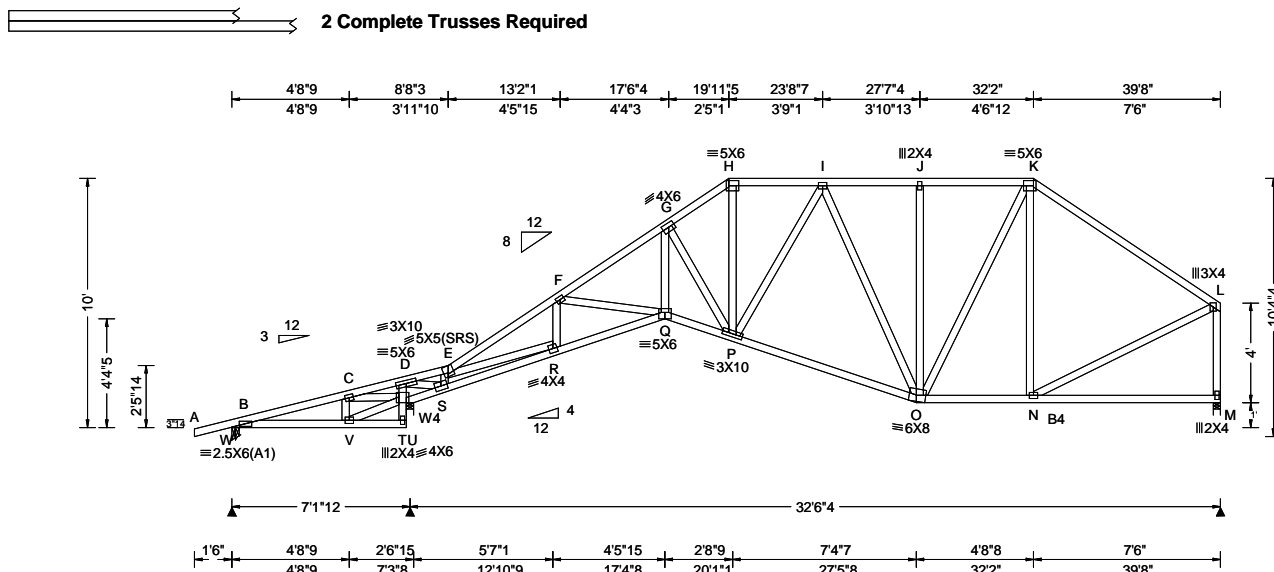
COA #0278

03/29/2022

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

SEQN: 57784 FROM:	COMN Ply: 2 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A13	Cust: R 215 JRef: 1Xe92150011 T78 DrwNo: 088.22.1535.20370 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.97 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: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.128 Q 999 240 VERT(CL): 0.261 Q 999 180 HORZ(LL): 0.075 M - - HORZ(TL): 0.153 M - - Creep Factor: 2.0 Max TC CSI: 0.633 Max BC CSI: 0.605 Max Web CSI: 0.779 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 135 -195 -/- /- /40 -/ T 2619 -/- -/- /- /161 -/ M 2257 -/- -/- /- /82 -/ Wind reactions based on MWFRS W Brg Wid = 3.5 Min Req = 1.5 (Truss) T Brg Wid = 3.5 Min Req = 1.5 (Truss) M Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings W, T, & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Wind	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B4 2x4 SP M-31; Webs: 2x4 SP #3; W4 2x4 SP #2;	Wind loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	B - C 617 -23 H - I 49 -1297 C - D 1733 -94 I - J 24 -1178 E - F 116 -2252 J - K 24 -1180 F - G 108 -2286 K - L 42 -1104 G - H 65 -1566

Nailnote	Additional Notes	Maximum Bot Chord Forces Per Ply (lbs)
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.	Negative reaction(s) of -195# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.	Chords Tens.Comp. Chords Tens. Comp. B - V 18 -591 Q - P 1946 -88 T - S 95 -1763 P - O 1332 -50 S - R 619 -38 O - N 869 -23 R - Q 1965 -100

Special Loads	Maximum Web Forces Per Ply (lbs)
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 61 plf at -1.50 to 61 plf at 8.68 TC: From 64 plf at 8.68 to 64 plf at 19.94 TC: From 61 plf at 19.94 to 61 plf at 32.17 TC: From 64 plf at 32.17 to 64 plf at 39.67 BC: From 4 plf at -1.50 to 4 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 7.00 BC: From 21 plf at 7.00 to 21 plf at 27.46 BC: From 20 plf at 27.46 to 20 plf at 39.67 BC: 1504 lb Conc. Load at 28.21	Webs Tens.Comp. Webs Tens. Comp. C - T 71 -1172 Q - G 1260 -51 V - T 15 -546 G - P 64 -1124 T - D 67 -1100 H - P 755 -10 D - S 2046 -107 O - K 653 -2 S - E 73 -1054 N - L 954 -24 E - R 1293 -57 L - M 52 -1107

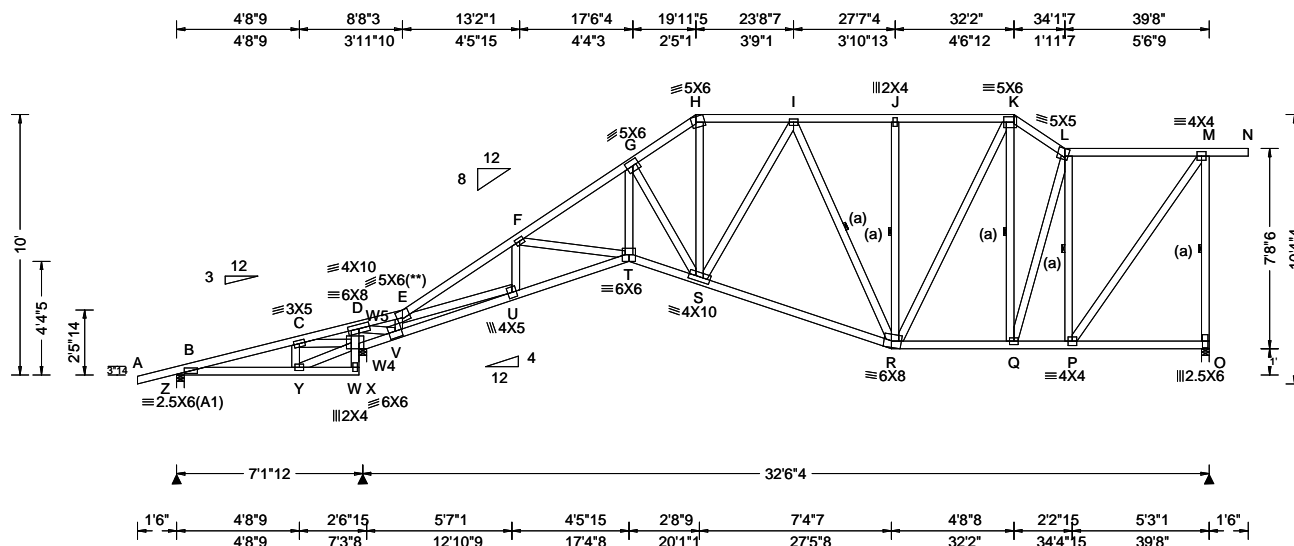
Plating Notes	Purlins
All plates are 3X4 except as noted.	In lieu of rigid ceiling use purlins to brace BC @ 24" oc.



COA #0278
03/29/2022

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SEQN: 57768 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A14	Cust: R 215 JRef: 1Xe92150011 T148 DrwNo: 088.22.1535.11503 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.171 T 999 240 VERT(CL): 0.347 T 999 180 HORZ(LL): 0.099 P - - HORZ(TL): 0.203 P - - Creep Factor: 2.0 Max TC CSI: 0.786 Max BC CSI: 0.702 Max Web CSI: 0.817 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Z 249 /-83 /- /54 /65 /168 W 1953 /- /- /1140 /90 /- O 1385 /- /- /709 /160 /- Wind reactions based on MWFRS Z Brg Wid = 3.5 Min Req = 1.5 (Truss) W Brg Wid = 3.5 Min Req = 2.1 (Truss) O Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings Z, W, & O are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



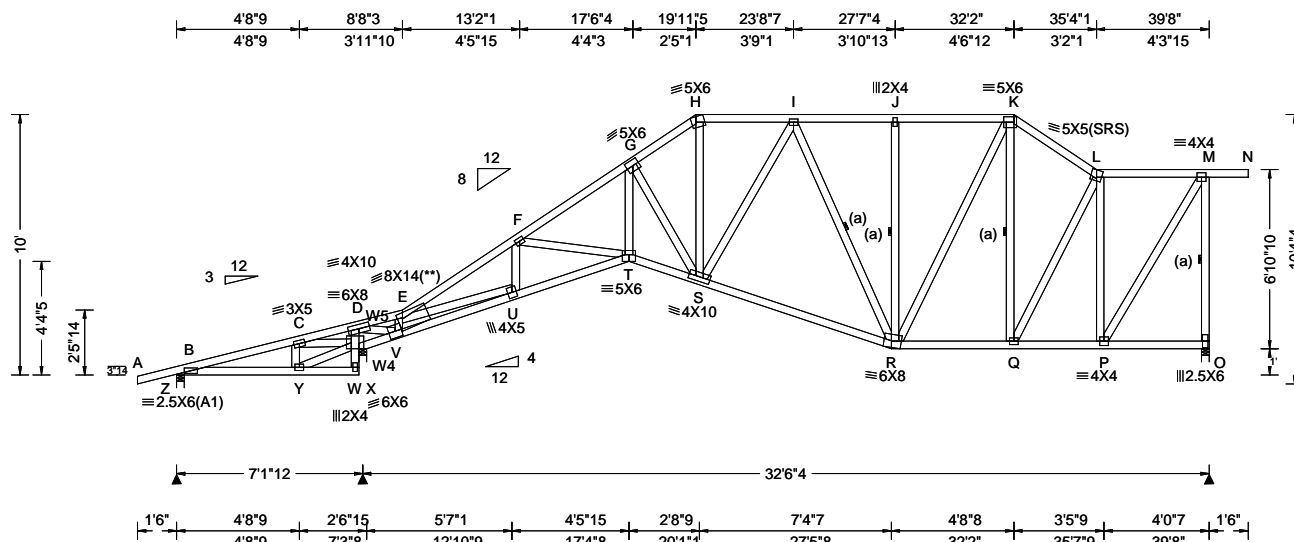
COA #0278

03/29/2022

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

SEQN: 57769 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A15	Cust: R 215 JRef: 1Xe92150011 T145 DrwNo: 088.22.1535.09180 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.170 T 999 240 VERT(CL): 0.347 T 999 180 HORZ(LL): 0.100 P - - HORZ(TL): 0.204 P - - Creep Factor: 2.0 Max TC CSI: 0.793 Max BC CSI: 0.705 Max Web CSI: 0.881 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Z 251 /-79 /- /55 /66 /170 W 1950 /- /- /1137 /85 /- O 1389 /- /- /710 /140 /- Non-Gravity Z Brg Wid = 3.5 Min Req = 1.5 (Truss) W Brg Wid = 3.5 Min Req = 2.1 (Truss) O Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings Z, W, & O are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W4, W5 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



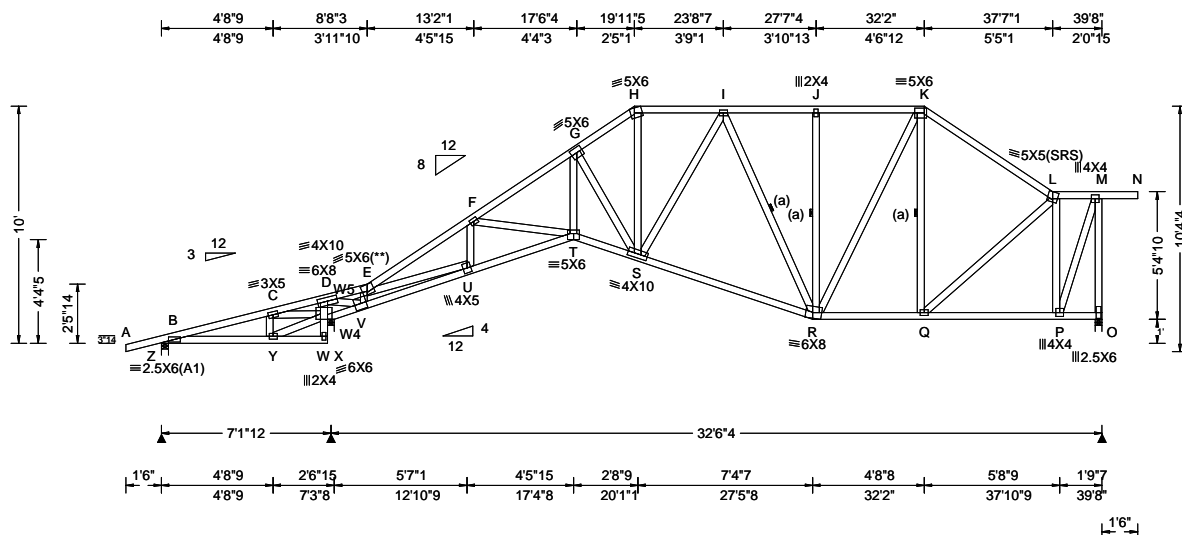
COA #0278

03/29/2022

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

SEQN: 57770 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A16	Cust: R 215 JRRef: 1Xe92150011 T147 DrwNo: 088.22.1535.07093 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.168 T 999 240 VERT(CL): 0.344 T 999 180 HORZ(LL): 0.100 P - - HORZ(TL): 0.205 P - - Creep Factor: 2.0 Max TC CSI: 0.783 Max BC CSI: 0.711 Max Web CSI: 0.818 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Z 249 /-82 /- /53 /69 /174 W 1954 /- /- /1138 /79 /- O 1395 /- /- /737 /101 /- Non-Gravity Z Brg Wid = 3.5 Min Req = 1.5 (Truss) W Brg Wid = 3.5 Min Req = 2.1 (Truss) O Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings Z, W, & O are a rigid surface. 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 #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W4,W5 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

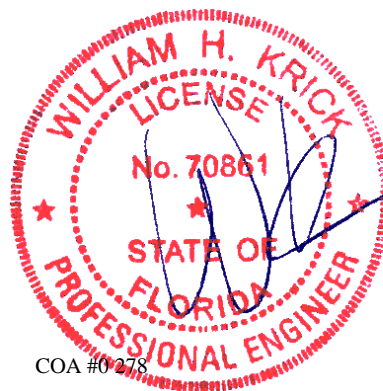
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



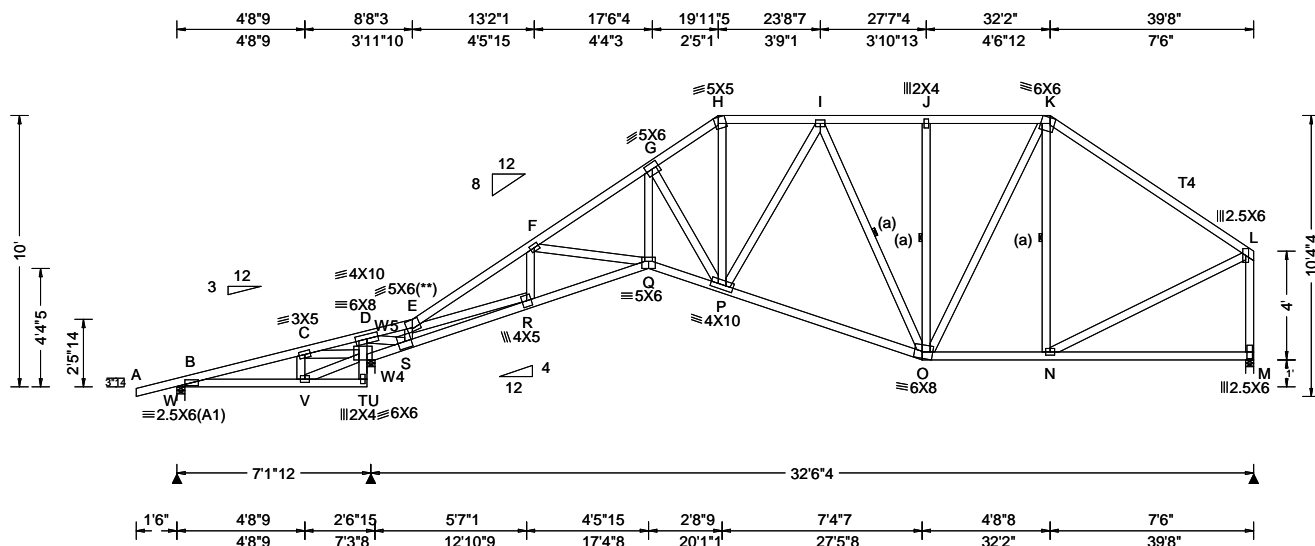
COA #0278

03/29/2022

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

SEQN: 57718 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A17	Cust: R 215 JRRef: 1Xe92150011 T83 DrwNo: 088.22.1535.05163 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.164 Q 999 240 VERT(CL): 0.337 Q 999 180 HORZ(LL): 0.098 M - - HORZ(TL): 0.202 M - - Creep Factor: 2.0 Max TC CSI: 0.773 Max BC CSI: 0.722 Max Web CSI: 0.819 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL W 248 /-84 /- /53 /72 /177 T 1959 /- /- /1141 /77 /- M 1303 /- /- /713 /20 /- Non-Gravity W Brg Wid = 3.5 Min Req = 1.5 (Truss) T Brg Wid = 3.5 Min Req = 2.2 (Truss) M Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings W, T, & M are a rigid surface. 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 #2; T4 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W4, W5 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

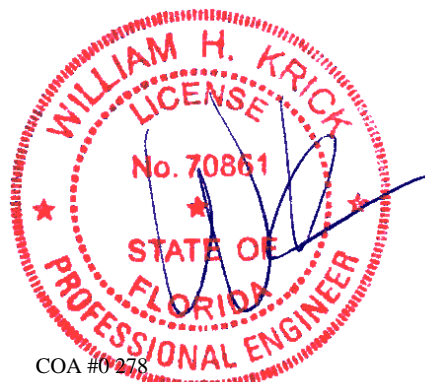
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



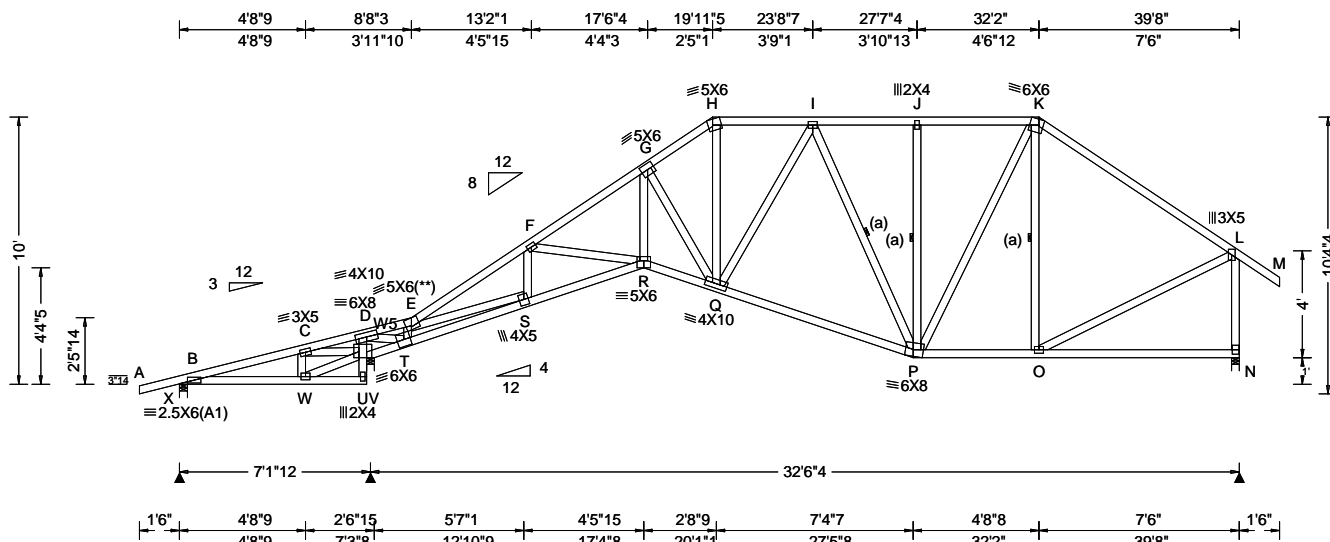
COA #0278
03/29/2022

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

SEQN: 57771 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A18	Cust: R 215 JRRef: 1Xe92150011 T74 DrwNo: 088.22.1535.03357 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.166 R 999 240 VERT(CL): 0.345 R 999 180 HORZ(LL): 0.098 N - - HORZ(TL): 0.205 N - - Creep Factor: 2.0 Max TC CSI: 0.878 Max BC CSI: 0.731 Max Web CSI: 0.830 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL X 246 /-84 /- /49 /90 /204 U 1974 /- /- /1161 /- /- N 1431 /- /- /808 /- /- Wind reactions based on MWFRS X Brg Wid = 3.5 Min Req = 1.5 (Truss) U Brg Wid = 3.5 Min Req = 2.2 (Truss) N Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings X, U, & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

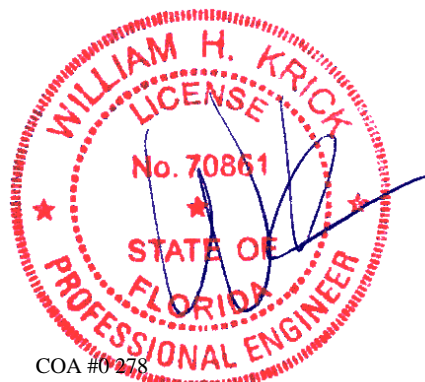
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W5 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 3X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

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



COA #0278
03/29/2022

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Maximum Bot Chord Forces Per Ply (lbs)

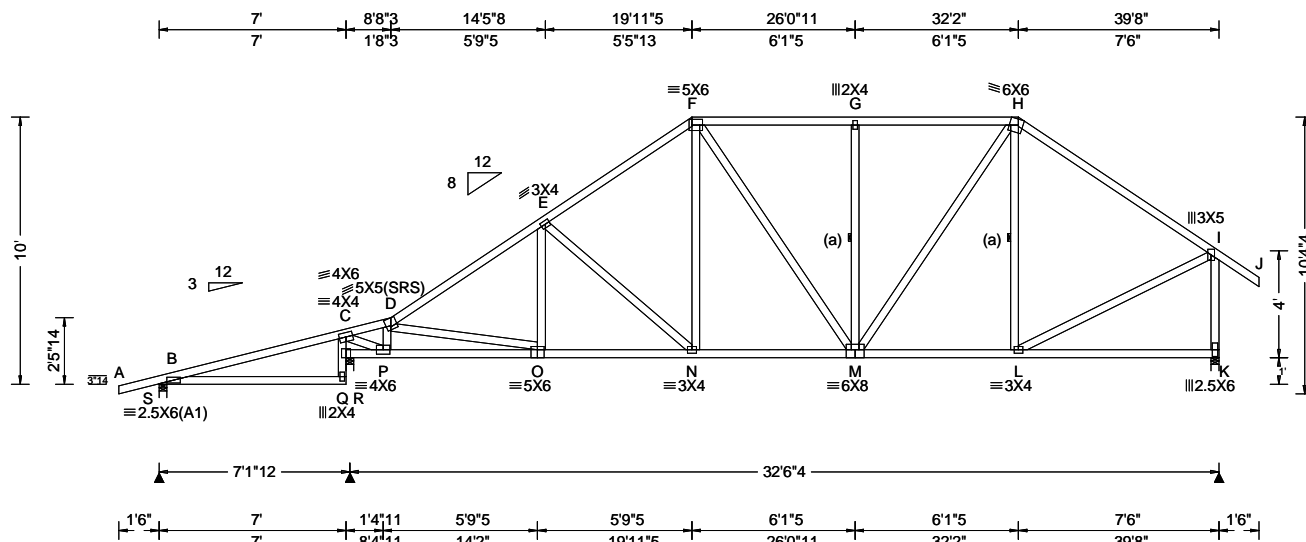
Chords	Tens.Comp.	Chords	Tens. Comp.
B - W	0 -780	R - Q	2490 0
U - T	14 -2503	Q - P	1502 0
T - S	952 -54	P - O	904 0
S - R	2706 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - W	427 0	G - Q	55 -1573
C - U	77 -1787	H - Q	861 0
W - U	0 -717	Q - I	390 -51
U - D	58 -1611	I - P	2 -640
D - T	2955 -43	P - K	514 0
T - E	56 -1515	O - L	983 0
E - S	1700 0	L - N	34 -1364
R - G	1693 0		

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

SEQN: 57544 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A19	Cust: R 215 JRRef: 1Xe92150011 T121 DrwNo: 088.22.1535.01063 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.065 N 999 240 VERT(CL): 0.134 N 999 180 HORZ(LL): 0.018 K - - HORZ(TL): 0.037 K - - Creep Factor: 2.0 Max TC CSI: 0.833 Max BC CSI: 0.542 Max Web CSI: 0.726 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 344 - / - / - /148 /55 /201 Q 1704 - / - / - /989 /69 - / - K 1444 - / - / - /798 /37 - / - Non-Gravity S Brg Wid = 3.5 Min Req = 1.5 (Truss) Q Brg Wid = 3.5 Min Req = 2.0 (Truss) K Brg Wid = 3.5 Min Req = 1.7 (Truss) Wind reactions based on MWFRS Members not listed have forces less than 375# Bearings S, Q, & K are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

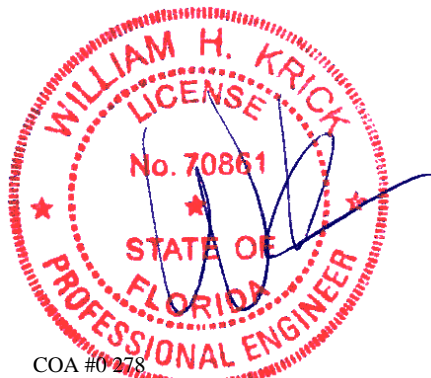
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	1611 -293	N - M	1206 -217
O - N	1544 -297	M - L	918 -163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	337 -1601	F - N	467 -36
C - P	1907 -340	M - H	534 -163
P - D	204 -870	L - I	999 -176
E - N	109 -453	I - K	336 -1379



COA #0278

03/29/2022

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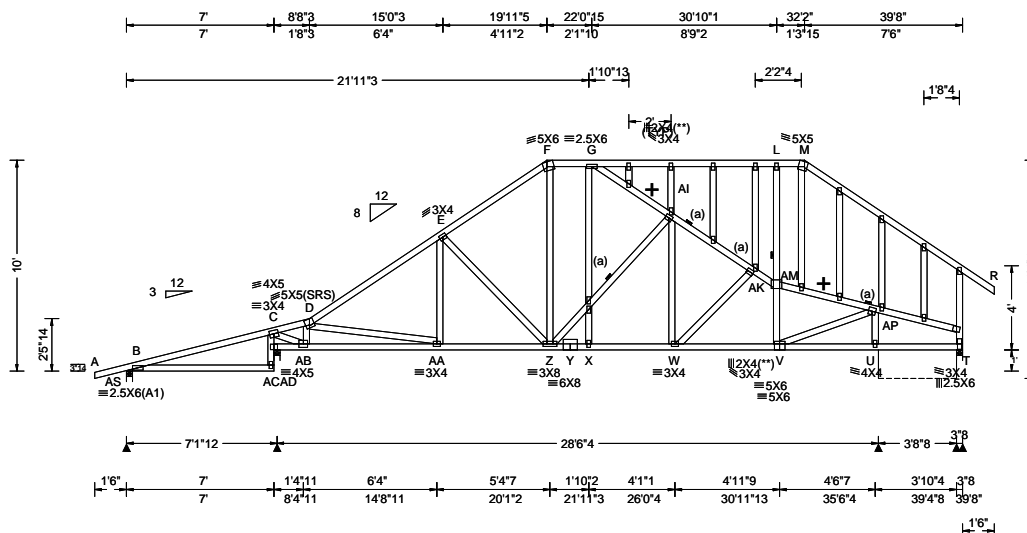
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57772 FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: A20	Cust: R 215 JRef: 1Xe92150011 T112 DrwNo: 088.22.1534.58987 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.97 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.077 Z 999 240 VERT(CL): 0.158 Z 999 180 HORZ(LL): 0.053 Q - - HORZ(TL): 0.109 Q - - Creep Factor: 2.0 Max TC CSI: 0.705 Max BC CSI: 0.594 Max Web CSI: 0.893 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL AS 344 - / - / /149 /55 /201 AC 1532 - / - / /897 /68 - /- U* 382 - / - / /207 /3 - /- T 227 - / - / /178 /42 - /- Non-Gravity Wind reactions based on MWFRS AS Brg Wid = 3.5 Min Req = 1.5 (Truss) AC Brg Wid = 3.5 Min Req = 1.8 (Truss) U Brg Wid = 44.5 Min Req = - T Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings AS, AC, U, & T are a rigid surface. Members not listed have forces less than 375#

Lumber

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

+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.

Bracing

(a) Continuous lateral restraint equally spaced on member.

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.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

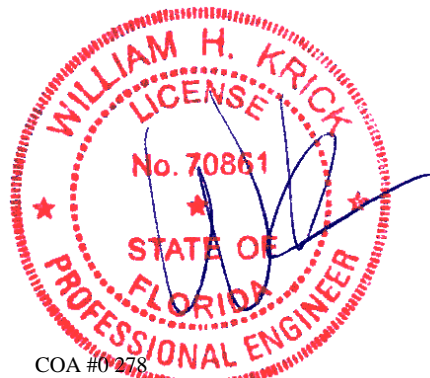
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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



COA #0278

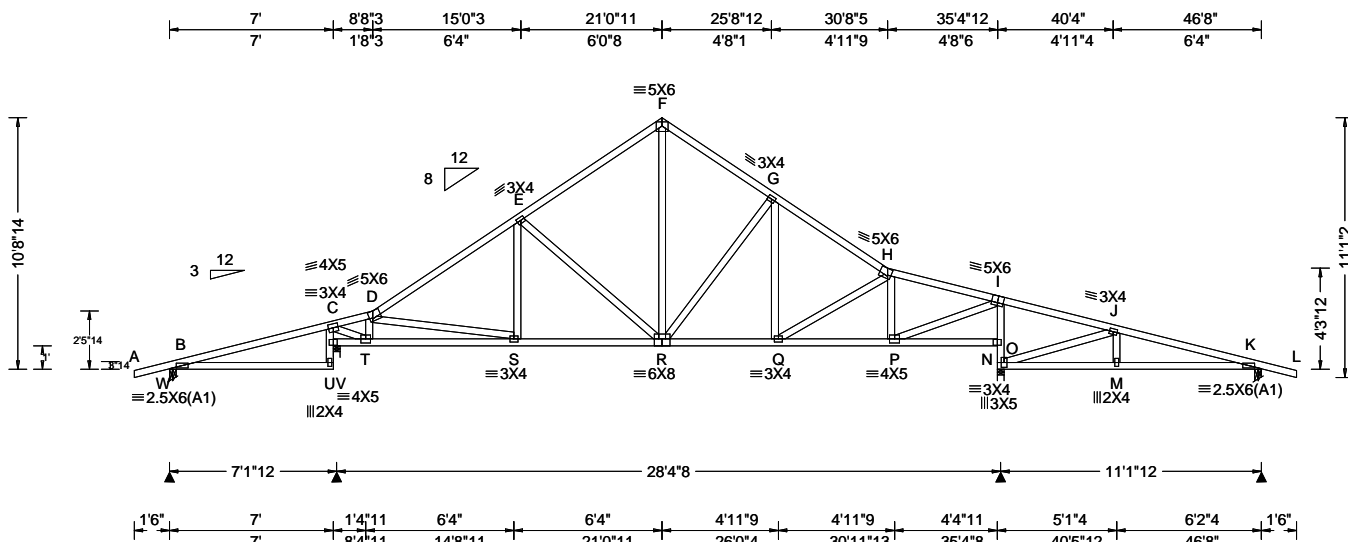
03/29/2022

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

SEQN: 57546 FROM:	COMN Ply: 1 Qty: 5	Job Number: 22-7038 Culverhouse Truss Label: A21	Cust: R 215 JRRef: 1Xe92150011 T136 DrwNo: 088.22.1534.22757 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.67 ft Loc. from endwall: not in 13.00 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.064 R 999 240 VERT(CL): 0.132 R 999 180 HORZ(LL): 0.017 P - - HORZ(TL): 0.035 P - - Creep Factor: 2.0 Max TC CSI: 0.697 Max BC CSI: 0.506 Max Web CSI: 0.685 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL W 346 - / - / - /150 /68 /182 U 1527 - / - / - /886 - / - N 1717 - / - / - /909 - / - K 502 - / - / - /245 /57 - Wind reactions based on MWFRS W Brg Wid = 3.5 Min Req = 1.5 (Truss) U Brg Wid = 3.5 Min Req = 1.8 (Truss) N Brg Wid = 3.5 Min Req = 2.0 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings W, U, N, & K are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Maximum Top Chord Forces Per Ply (lbs)

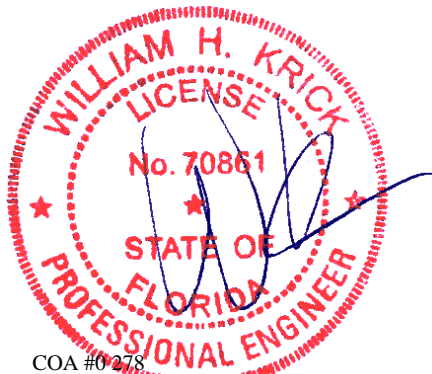
Chords	Tens.Comp.	Chords	Tens. Comp.
C - D	173 - 1265	G - H	222 - 1491
D - E	203 - 1618	H - I	212 - 1461
E - F	219 - 1167	J - K	166 - 702
F - G	224 - 1131		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T - S	1391 - 121	Q - P	1438 - 124
S - R	1259 - 55	N - M	640 - 113
R - Q	1164 - 36	M - K	650 - 111

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
U - C	190 - 1431	H - P	94 - 564
C - T	1681 - 158	P - I	1708 - 157
T - D	116 - 747	I - O	209 - 1363
E - R	129 - 515	O - N	202 - 1430
F - R	828 - 153	N - J	169 - 870
R - G	131 - 481		



COA #0278

03/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Suite 305
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[illegible]

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

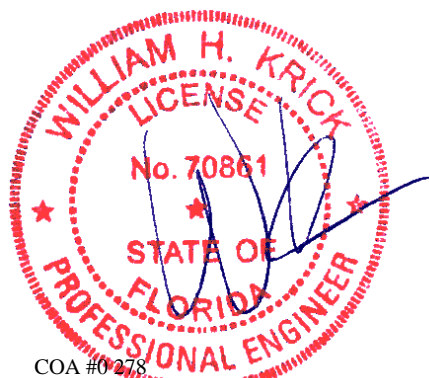
All plates are 2X4 except as noted.

In lieu of structural panels use purlins to brace TC @ 24" oc.

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

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

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



COA #0278

03/29/2022

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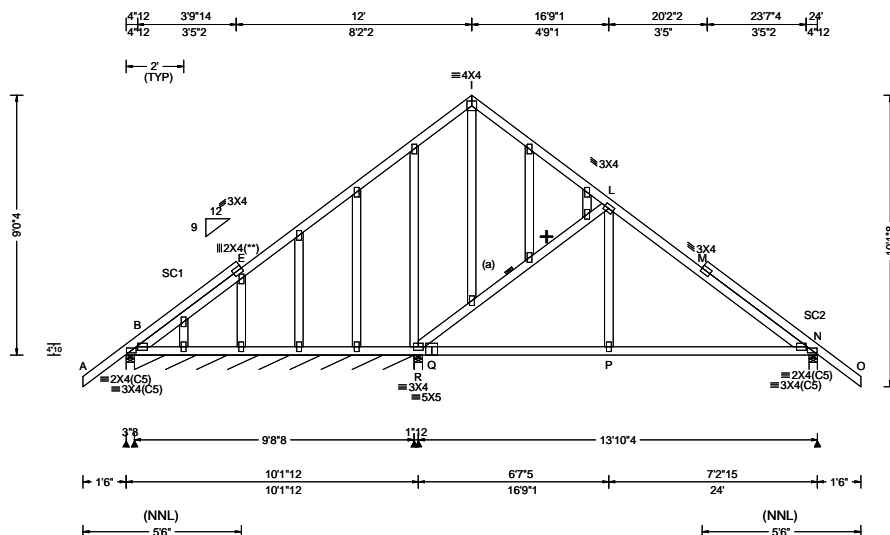
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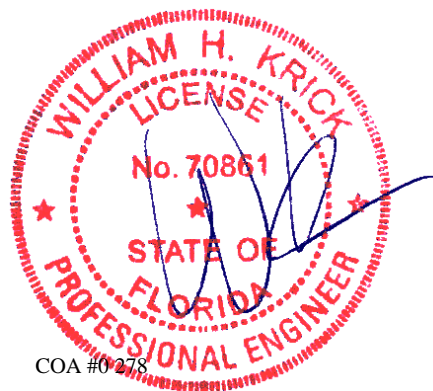


SEQN: 84900 FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B02	Cust: R 215 JRef: 1Xe92150011 T120 DrwNo: 088.22.1534.18210 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.105 M 999 240 VERT(CL): 0.220 M 740 180 HORZ(LL): -0.065 M - - HORZ(TL): 0.136 M - - Creep Factor: 2.0 Max TC CSI: 0.624 Max BC CSI: 0.442 Max Web CSI: 0.319 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 380 - / - /184 - /215 B* 55 - / - /38 /14 - R 584 - / - /368 /75 - N 764 - / - /462 /30 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) B Brg Wid = 116 Min Req = - R Brg Wid = 3.5 Min Req = 1.5 (Truss) N Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, B, R, & N are a rigid surface. Members not listed have forces less than 375#

Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2; Bracing (a) Continuous lateral restraint equally spaced on member. 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. Loading Gable end supports 8" max rake overhang. Top chord must not be cut or notched. Wind Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types. + Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.	Additional Notes See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements. Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.	Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - M 65 -614 M - N 123 -780 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. R - Q 517 0 P - N 515 0 Q - P 517 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. R - L 196 -558
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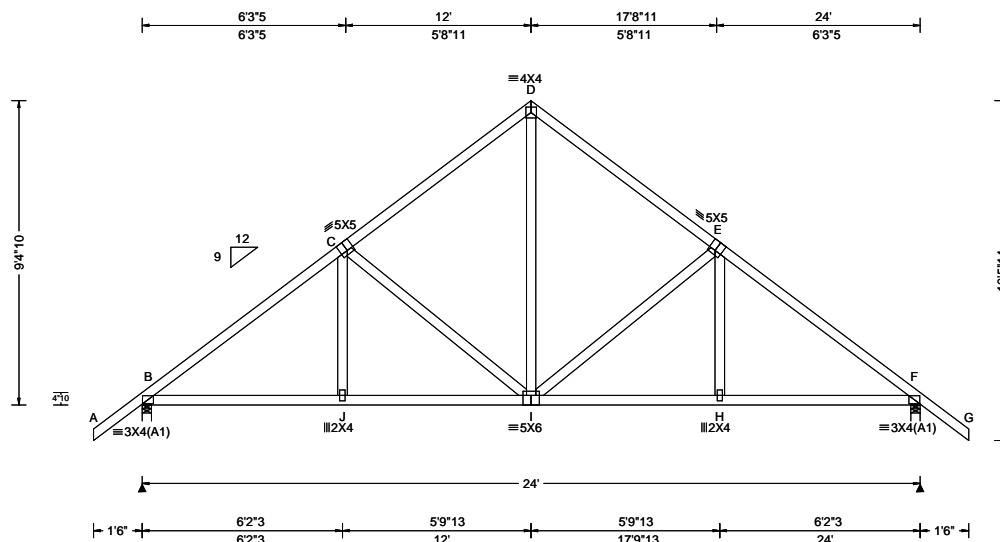


COA #0 278

03/29/2022

<p>**WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!</p> <p>**IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS</p> <p>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.</p> <p>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.</p> <p>For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org</p>	<p>6750 Forum Drive Suite 305 Orlando FL, 32821</p>
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SEQN: 57570 FROM:	COMN Ply: 1 Qty: 7	Job Number: 22-7038 Culverhouse Truss Label: B03	Cust: R 215 JRef: 1Xe92150011 T87 DrwNo: 088.22.1533.29613 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.037 I 999 240 VERT(CL): 0.077 I 999 180 HORZ(LL): 0.018 F - - HORZ(TL): 0.037 F - - Creep Factor: 2.0 Max TC CSI: 0.363 Max BC CSI: 0.389 Max Web CSI: 0.438 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1125 -/- /- /660 /101 /219 F 1125 -/- /- /660 /101 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 239 -1356 D - E 261 -955 C - D 261 -955 E - F 239 -1356

Lumber

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

Wind

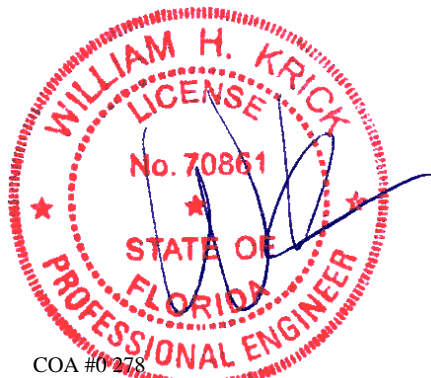
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	992 -67	I - H	991 -72
J - I	991 -67	H - F	992 -71

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	166 -412	I - E	165 -412
D - I	642 -167		



COA #0278

03/29/2022

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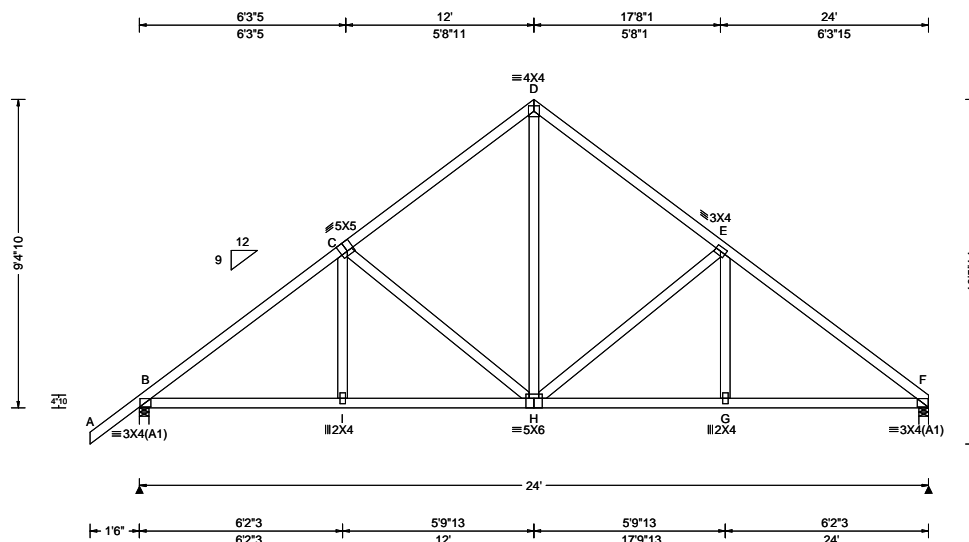
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SEQN: 57573 FROM:	COMN Ply: 1 Qty: 2	Job Number: 22-7038 Culverhouse Truss Label: B04	Cust: R 215 JRef: 1Xe92150011 T106 DrwNo: 088.22.1533.28137 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.036 H 999 240 VERT(CL): 0.075 H 999 180 HORZ(LL): 0.018 F - - HORZ(TL): 0.038 F - - Creep Factor: 2.0 Max TC CSI: 0.405 Max BC CSI: 0.401 Max Web CSI: 0.461 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1129 - / - / 661 - / 204 F 1016 - / - / 583 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 151 - 1362 D - E 180 - 963 C - D 179 - 961 E - F 156 - 1375

Lumber

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

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 - I	997 -49	H - G	1012 -55
I - H	996 -50	G - F	1013 -55

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - H	118 -413	H - E	125 -433
D - H	654 -117		



COA #0278

03/29/2022

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Lumber	C - D	181	-972	E - F	161	-1365
Top chord: 2x4 SP #2;	Maximum Bot Chord Forces Per Ply (lbs)					
Bot chord: 2x4 SP #2;	Chords	Tens.Comp.	Chords	Tens.	Comp.	
Webs: 2x4 SP #3;	B - K	1005	-79	J - I	1026	-81
	K - J	1004	-79	I - H	1174	-168
Wind	Maximum Web Forces Per Ply (lbs)					
Wind loads based on MWFRS with additional C&C member design.	Webs	Tens.Comp.	Webs	Tens.	Comp.	
Right end vertical not exposed to wind pressure.	C - J	116	-411	J - E	119	-441
Wind loading based on both gable and hip roof types.	D - J	659	-115	F - H	218	-1492




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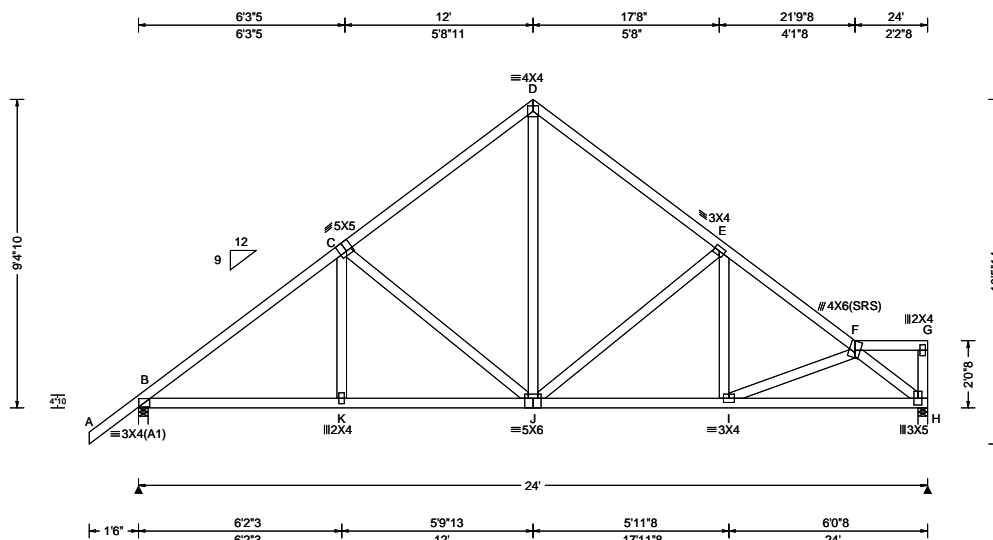
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Orlando FL, 32821

SEQN: 57581 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B07	Cust: R 215 JRef: 1Xe92150011 T146 DrwNo: 088.22.1533.25147 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.038 J 999 240 VERT(CL): 0.081 J 999 180 HORZ(LL): 0.019 H - - HORZ(TL): 0.040 H - - Creep Factor: 2.0 Max TC CSI: 0.361 Max BC CSI: 0.465 Max Web CSI: 0.463 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - / /665 - / /190 H 1010 - / - / /547 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 153 -1372 D - E 180 -969 C - D 182 -972 E - F 167 -1345

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	1005 -92	J - I	1023 -94
K - J	1003 -92	I - H	1147 -167

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	116 -410	J - E	119 -436
D - J	655 -115	F - H	213 -1448



COA #0278

03/29/2022

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

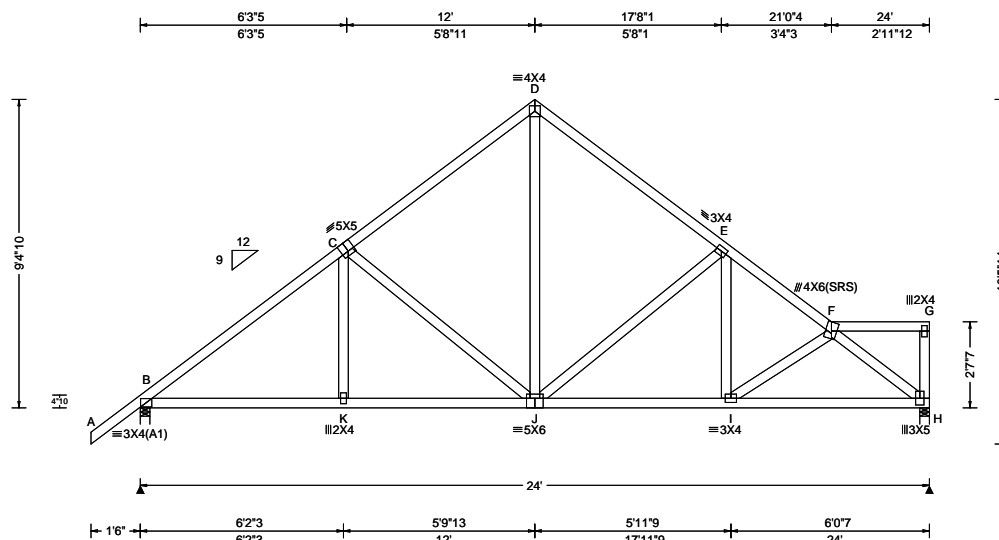
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57583 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B08	Cust: R 215 JRef: 1Xe92150011 T116 DrwNo: 088.22.1533.23257 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.038 J 999 240 VERT(CL): 0.080 J 999 180 HORZ(LL): 0.019 H - - HORZ(TL): 0.040 H - - Creep Factor: 2.0 Max TC CSI: 0.362 Max BC CSI: 0.463 Max Web CSI: 0.459 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - / /666 - / /186 H 1010 - / - / /537 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 155 -1372 D - E 182 -968 C - D 184 -972 E - F 177 -1323

Lumber

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

Wind

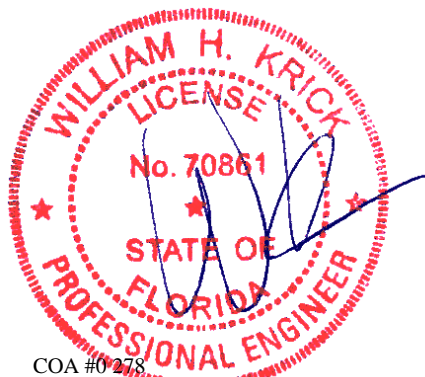
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	1005 -107	J - I	1020 -111
K - J	1003 -108	I - H	1121 -173

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	115 -410	J - E	120 -432
D - J	652 -115	F - H	218 -1408



COA #0278

03/29/2022

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Lumber	C - D	189	- 9/6	E - F	189	- 10/67
Top chord: 2x4 SP #2;	Maximum Bot Chord Forces Per Ply (lbs)					
Bot chord: 2x4 SP #2;	Chords		Tens.Comp.	Chords		Tens. Comp.
Webs: 2x4 SP #3;						

(a) Continuous lateral restraint equally spaced on member

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



COA #0278


03/29/2022

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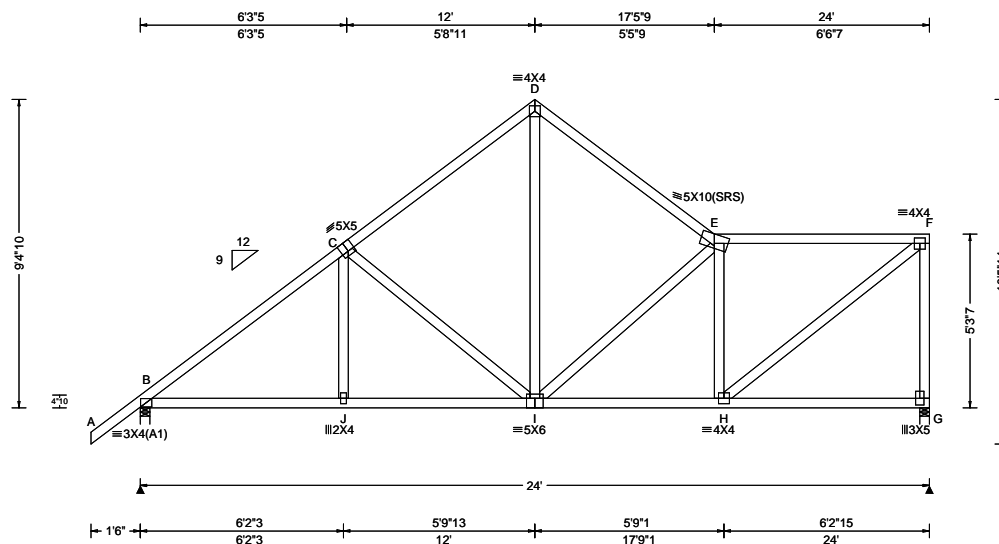
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57591 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B10	Cust: R 215 JRef: 1Xe92150011 T131 DrwNo: 088.22.1533.19587 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.041 I 999 240 VERT(CL): 0.086 I 999 180 HORZ(LL): 0.017 C - - HORZ(TL): 0.036 C - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.455 Max Web CSI: 0.477 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1135 - / - /672 - /180 G 1010 - / - /545 /48 - /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 170 -1373 D - E 206 -966 C - D 199 -971 E - F 207 -976

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	1006 -186	I - H	1014 -219
J - I	1005 -186		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	118 -416	E - H	208 -648
D - I	678 -155	H - F	1249 -264
I - E	167 -447	F - G	285 -958



COA #0278
03/29/2022

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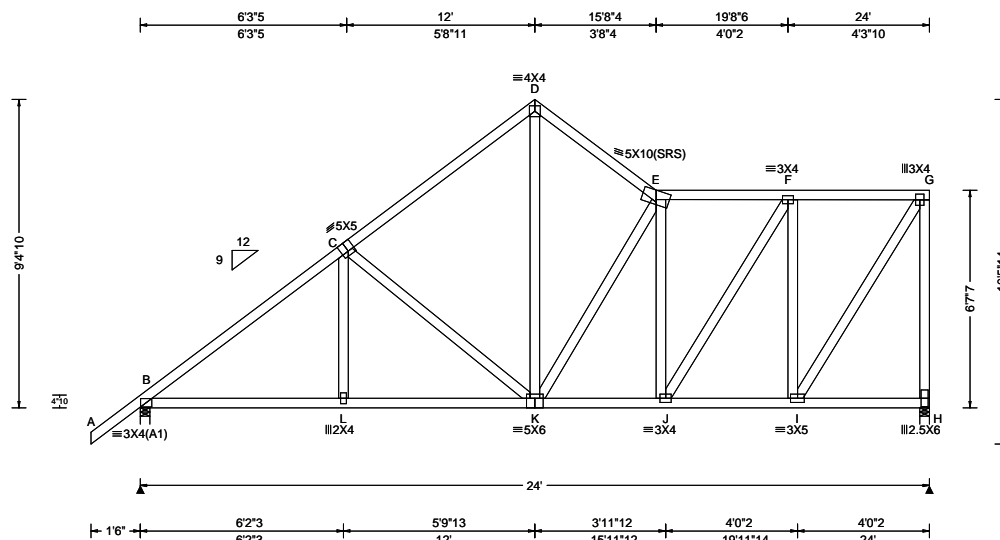
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57594 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B11	Cust: R 215 JRef: 1Xe92150011 T107 DrwNo: 088.22.1533.18093 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.040 K 999 240 VERT(CL): 0.084 K 999 180 HORZ(LL): 0.017 C - - HORZ(TL): 0.035 C - - Creep Factor: 2.0 Max TC CSI: 0.373 Max BC CSI: 0.401 Max Web CSI: 0.762 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - / 677 - / 177 H 1010 - / - / 547 / 73 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 181 - 1374 E - F 210 - 853 C - D 212 - 970 F - G 158 - 549 D - E 221 - 906

Lumber

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

Wind

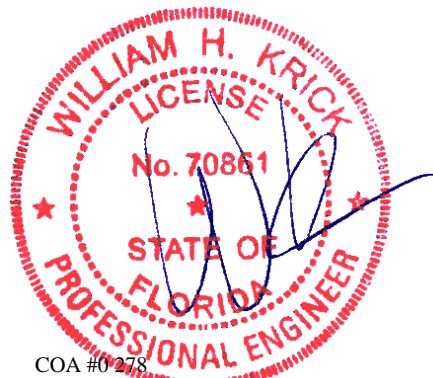
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	1007 - 228	K - J	871 - 214
L - K	1006 - 229	J - I	585 - 171

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	116 - 421	J - F	530 - 77
D - K	697 - 173	F - I	278 - 775
K - E	156 - 377	I - G	1026 - 295
E - J	88 - 389	G - H	322 - 977



COA #0278

03/29/2022

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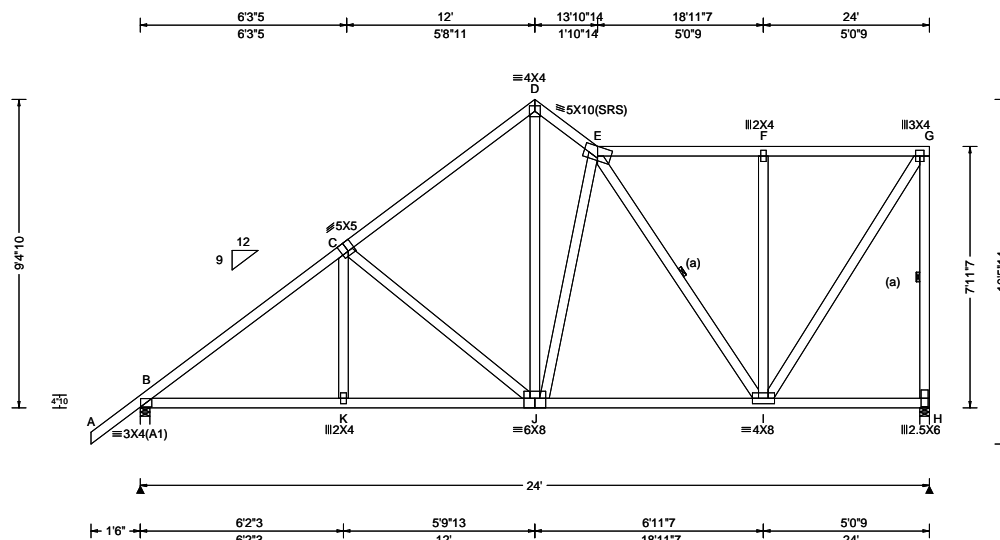
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57596 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B12	Cust: R 215 JRef: 1Xe92150011 T114 DrwNo: 088.22.1533.16597 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.037 E 999 240 VERT(CL): 0.078 E 999 180 HORZ(LL): 0.015 C - - HORZ(TL): 0.033 C - - Creep Factor: 2.0 Max TC CSI: 0.449 Max BC CSI: 0.430 Max Web CSI: 0.519 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - /683 - /174 H 1010 - / - /548 /96 - /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 193 -1372 E - F 184 -558 C - D 224 -973 F - G 183 -557 D - E 247 -862

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

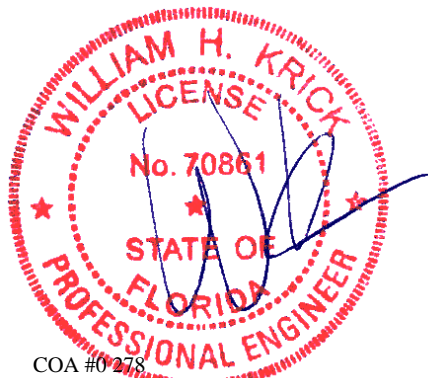
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	1006 -270	J - I	768 -226
K - J	1005 -271		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	118 -417	F - I	257 -392
D - J	739 -211	I - G	1013 -334
E - I	77 -384	G - H	361 -973



COA #0278

03/29/2022

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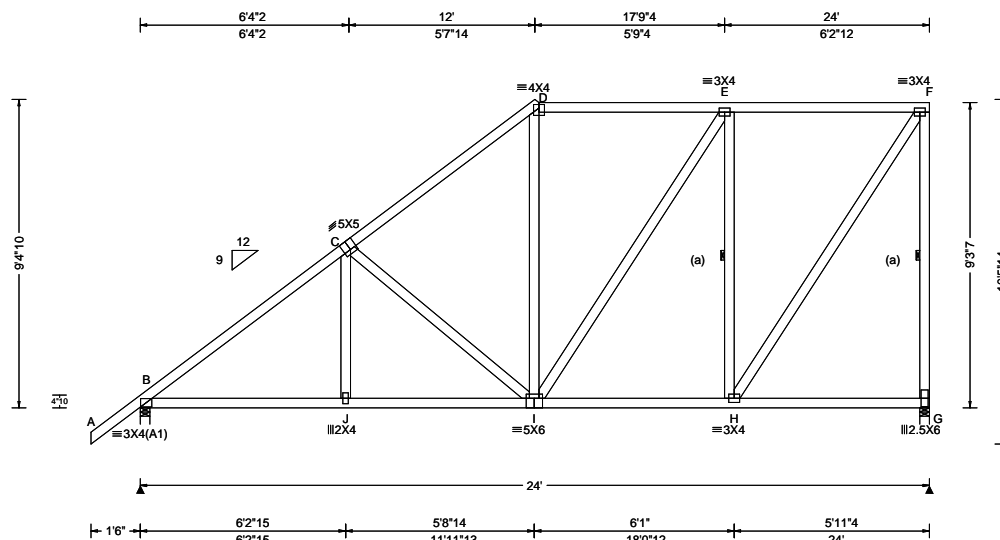
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ALPINE
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Suite 305
Orlando FL, 32821

SEQN: 57599 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B13	Cust: R 215 JRef: 1Xe92150011 T91 DrwNo: 088.22.1533.14977 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.033 I 999 240 VERT(CL): 0.070 I 999 180 HORZ(LL): 0.014 C - - HORZ(TL): 0.030 C - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.391 Max Web CSI: 0.785 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 -/- /- /691 /9 /172 G 1010 -/- /- /549 /118 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 207 -1371 D - E 237 -687 C - D 244 -971 E - F 196 -528

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

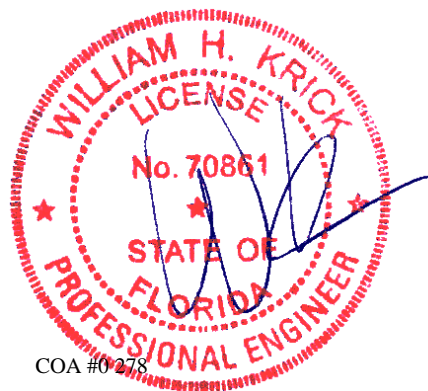
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	1004 -314	I - H	549 -207
J - I	1003 -315		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	112 -413	H - F	958 -356
E - H	339 -665	F - G	399 -963



COA #0278

03/29/2022

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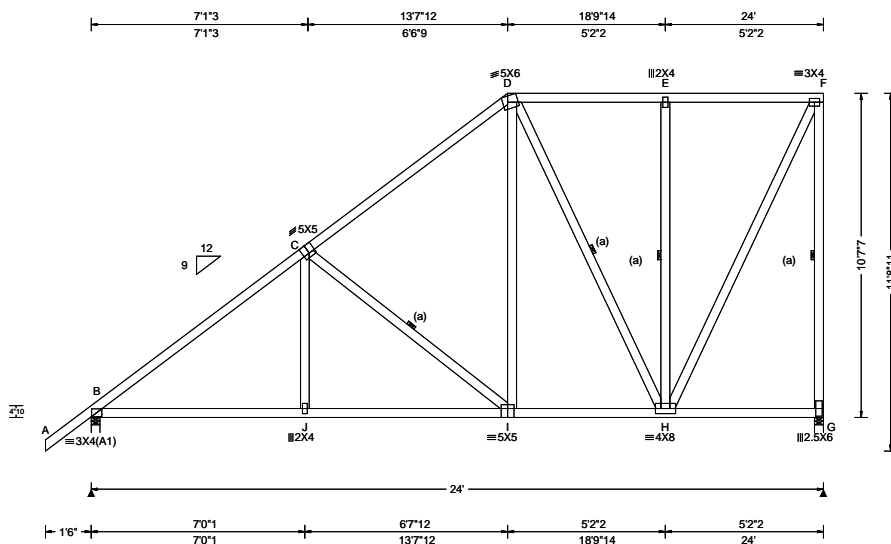
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57602 FROM:	HIPM Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B14	Cust: R 215 JRef: 1Xe92150011 T122 DrwNo: 088.22.1533.13460 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.033 I 999 240 VERT(CL): 0.070 I 999 180 HORZ(LL): 0.015 C - - HORZ(TL): 0.032 C - - Creep Factor: 2.0 Max TC CSI: 0.522 Max BC CSI: 0.491 Max Web CSI: 0.861 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - /697 - /193 G 1010 - / - /567 /120 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 160 -1354 D - E 154 -417 C - D 196 -880 E - F 153 -417

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	982 -300	I - H	593 -199
J - I	980 -300		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	134 -499	H - F	930 -342
D - I	471 -50	F - G	392 -967
D - H	102 -393		



COA #0278

03/29/2022

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

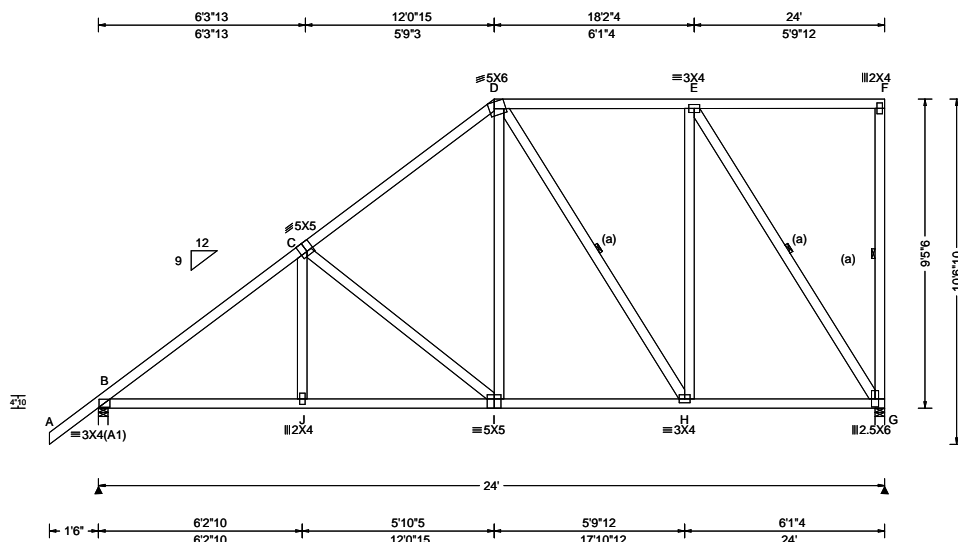
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 57604 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B15	Cust: R 215 JRef: 1Xe92150011 T79 DrwNo: 088.22.1533.11893 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.031 I 999 240 VERT(CL): 0.065 I 999 180 HORZ(LL): 0.015 G - - HORZ(TL): 0.031 G - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.459 Max Web CSI: 0.576 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - / 691 / 10 / 172 G 1010 - / - / 549 / 118 / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 208 - 1372 D - E 197 - 529 C - D 244 - 966

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	1005 - 315	I - H	679 - 235
J - I	1003 - 316	H - G	517 - 196

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	112 - 420	H - E	450 - 19
D - I	427 - 38	E - G	366 - 964



COA #0218

03/29/2022

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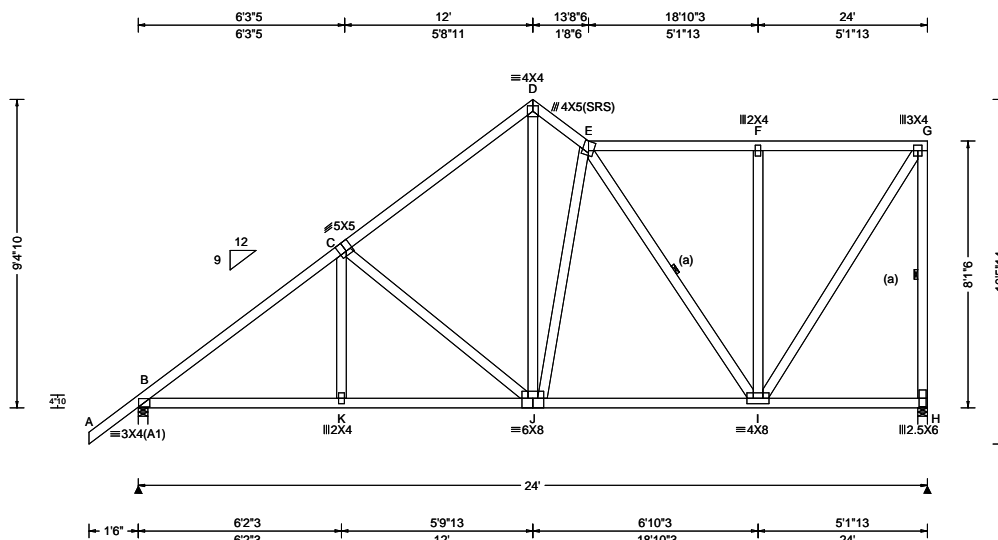
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57606 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B16	Cust: R 215 JRef: 1Xe92150011 T130 DrwNo: 088.22.1533.10060 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.037 E 999 240 VERT(CL): 0.078 E 999 180 HORZ(LL): 0.015 C - - HORZ(TL): 0.032 C - - Creep Factor: 2.0 Max TC CSI: 0.470 Max BC CSI: 0.422 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1135 - / - /684 - /174 H 1010 - / - /548 /98 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 194 -1372 E - F 186 -555 C - D 226 -973 F - G 186 -555 D - E 251 -854

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	1006 -275	J - I	758 -227
K - J	1005 -276		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	117 -416	I - G	1008 -337
D - J	740 -216	G - H	365 -971
F - I	262 -400		



COA #0218

03/29/2022

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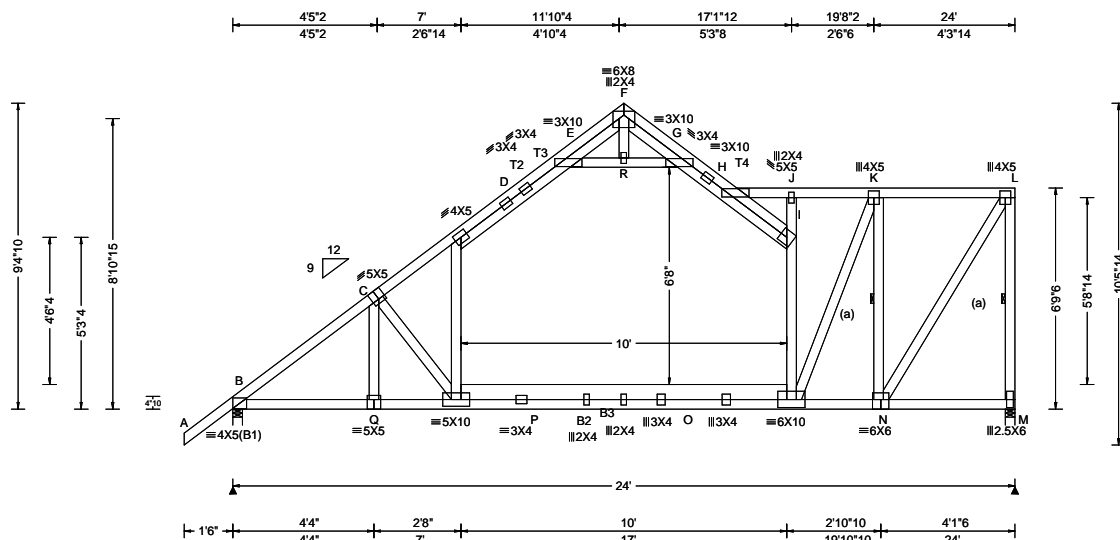
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 84907 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B17	Cust: R 215 JRef: 1Xe92150011 T133 DrwNo: 088.22.1533.08203 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.377 P 759 240 VERT(CL): 0.824 P 347 180 HORZ(LL): 0.262 D - - HORZ(TL): 0.591 D - - Creep Factor: 2.0 Max TC CSI: 0.708 Max BC CSI: 0.730 Max Web CSI: 0.663 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1769 -/- /- /678 -/- /177 M 1646 -/- /- /547 /74 -/- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 (Truss) M Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 437 -3513 F - G 123 -1804 E - F 2666 -273 G - H 208 -2968 H - I 888 -261 H - I 283 -1001 B - C 174 -2418 H - J 206 -1509 C - D 202 -2189 J - K 197 -1516 E - F 287 -2355 K - L 154 -919 F - G 2218 -159

Lumber

Top chord: 2x4 SP #2; T2,T3,T4 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

03/29/2022

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

SEQN: 84910	COMN	Ply: 1	Job Number: 22-7038	Cust: R 215 JRef: 1Xe92150011 T135
FROM:		Qty: 1	Culverhouse	DrwNo: 088.22.1533.04487
			Truss Label: B18	KD / WHK 03/29/2022

Lumber

Plating Notes

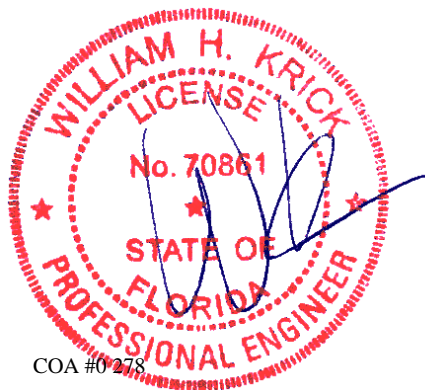
Loading

Purlins

Wind

Right end vertical not exposed to wind pressure.

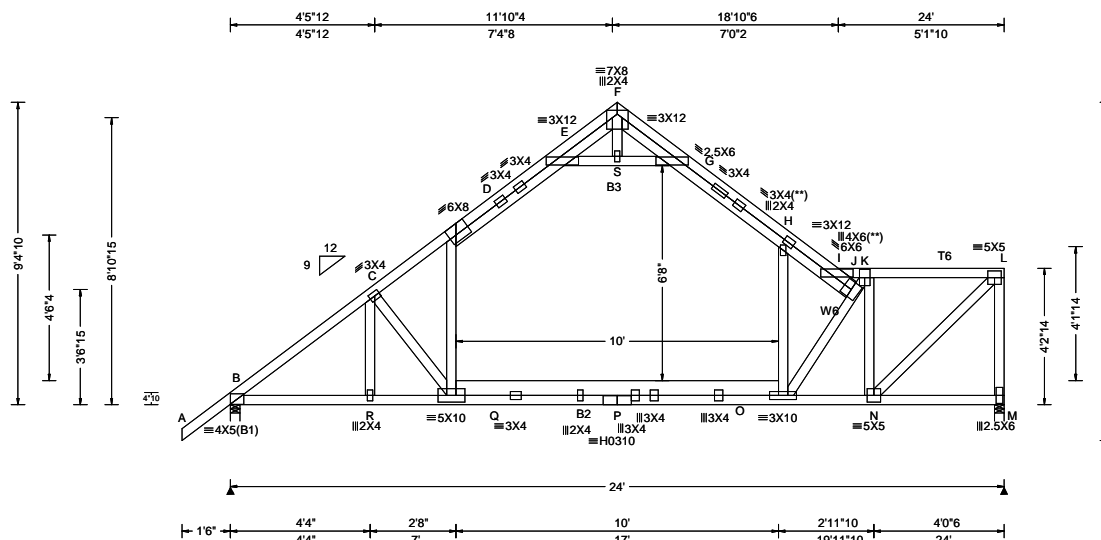
Wind loading based on both gable and hip roof types.



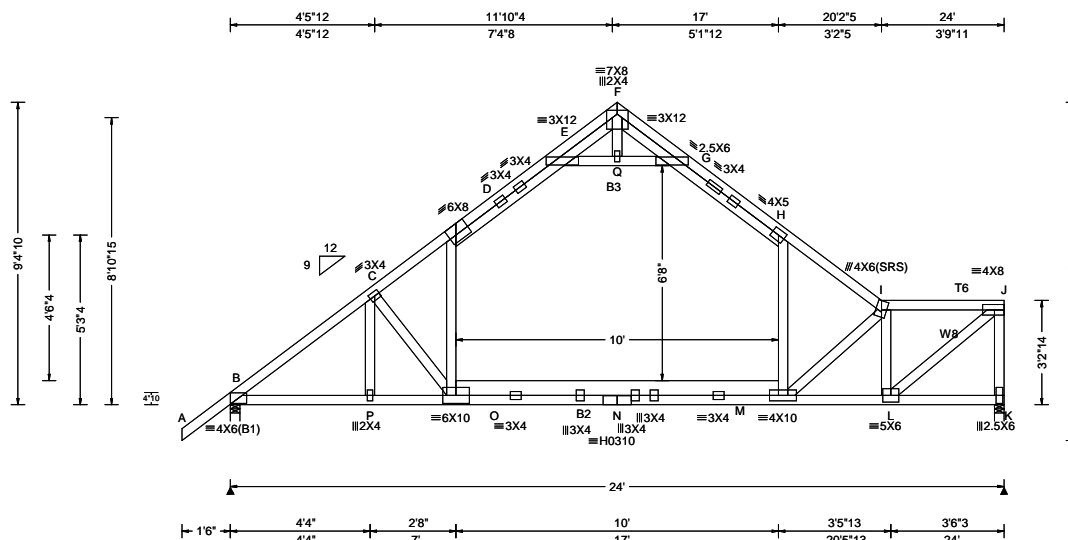
03/29/2022



SEQN: 84913 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B19	Cust: R 215 JRRef: 1Xe92150011 T110 DrwNo: 088.22.1533.02633 KD / WHK 03/29/2022
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SEQN: 84924 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B21	Cust: R 215 JRRef: 1Xe92150011 T128 DrwNo: 088.22.1532.58570 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.401 N 714 240 VERT(CL): 0.803 G 356 180 HORZ(LL): -0.194 H - - HORZ(TL): 0.462 H - - Creep Factor: 2.0 Max TC CSI: 0.864 Max BC CSI: 0.562 Max Web CSI: 0.554 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1797 - / - / - / 667 / 98 / 185 K 1691 - / - / - / 539 / 98 / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 455 - 5188 E - F 291 - 3344 E - F 4146 - 344 F - G 4013 - 333 G - H 457 - 2153 F - G 277 - 3178 B - C 152 - 2438 H - I 182 - 2344 C - D 184 - 2350 I - J 170 - 1885

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

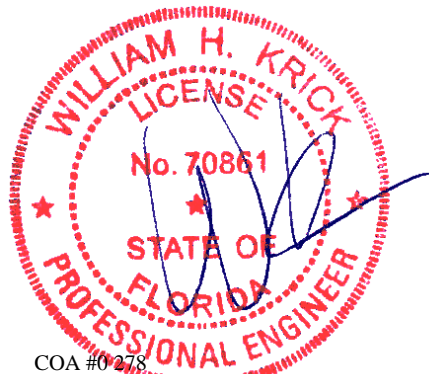
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

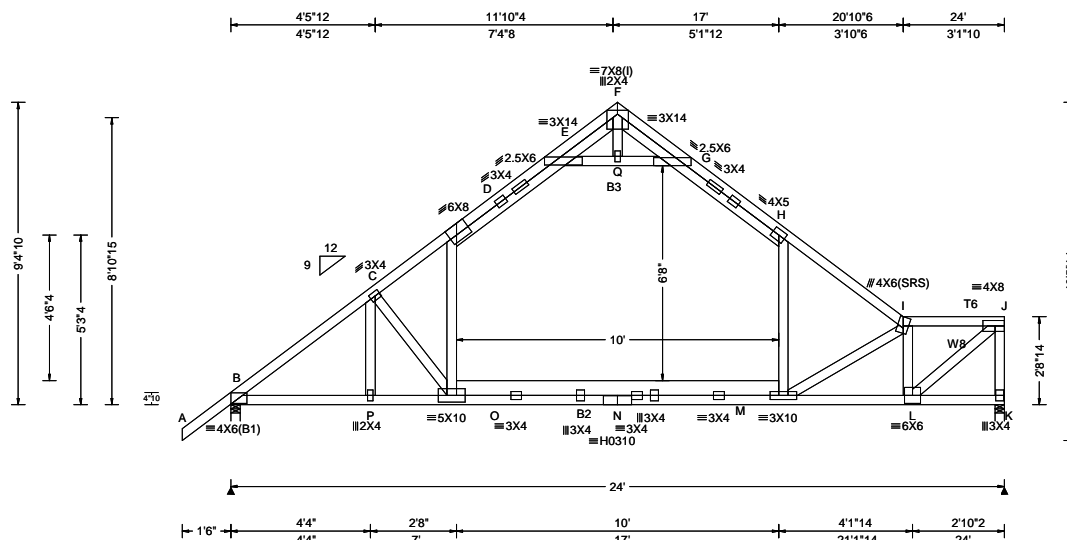
03/29/2022

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

SEQN: 84933 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B22	Cust: R 215 JRef: 1Xe92150011 T126 DrwNo: 088.22.1532.56373 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.423 N 676 240 VERT(CL): 0.839 G 341 180 HORZ(LL): -0.203 H - - HORZ(TL): 0.481 H - - Creep Factor: 2.0 Max TC CSI: 0.931 Max BC CSI: 0.574 Max Web CSI: 0.598 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1935 - / - / /666 /99 /186 K 1800 - / - / /537 /96 - /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.6 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 462 -5437 E - F 294 -3533 E - F 4432 -351 F - G 4453 -348 G - H 429 -2290 F - G 290 -3560 B - C 150 -2658 H - I 167 -2520 C - D 183 -2566 I - J 161 -2013

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

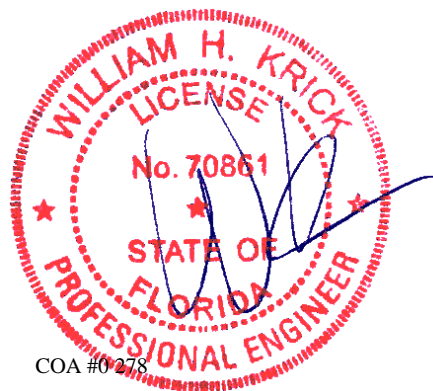
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0 278

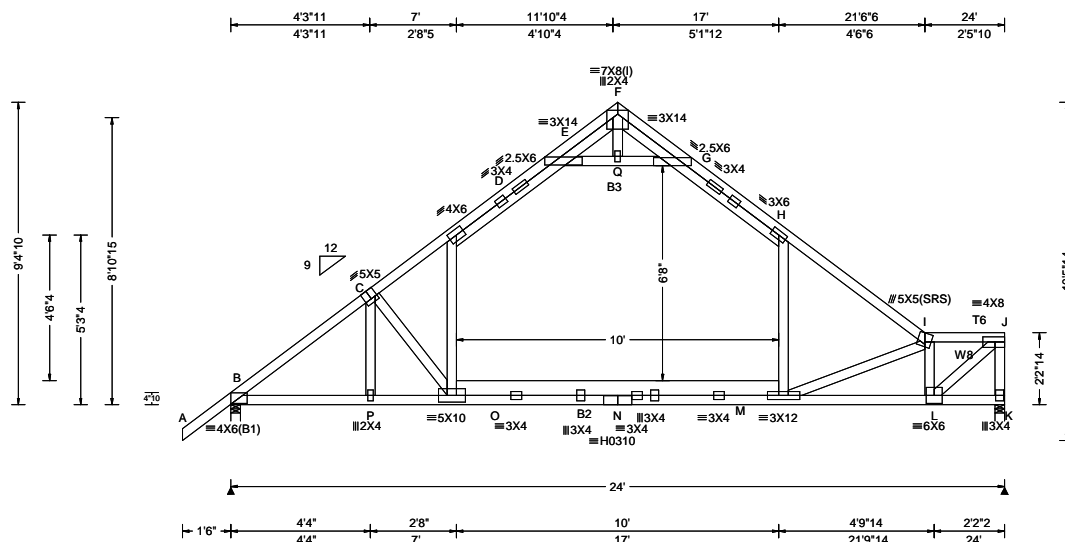
03/29/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 84938 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B23	Cust: R 215 JRef: 1Xe92150011 T129 DrwNo: 088.22.1532.54150 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.435 N 658 240 VERT(CL): 0.872 G 328 180 HORZ(LL): -0.218 H - - HORZ(TL): 0.517 H - - Creep Factor: 2.0 Max TC CSI: 0.958 Max BC CSI: 0.574 Max Web CSI: 0.604 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1935 - / - / /665 /100 /189 K 1800 - / - / /544 /93 - /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.6 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 470 -5558 E - F 298 -3602 E - F 4528 -359 F - G 4563 -364 G - H 383 -2225 F - G 304 -3646 B - C 148 -2656 H - I 156 -2520 C - D 180 -2570 I - J 154 -2002

Lumber

Top chord: 2x4 SP M-31; T6 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x6 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

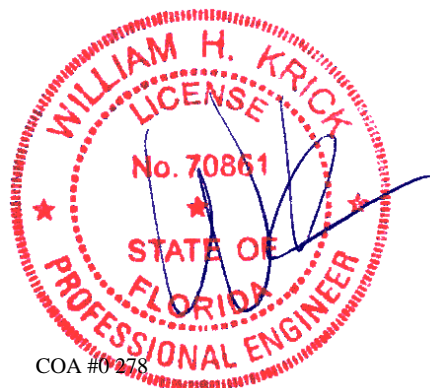
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

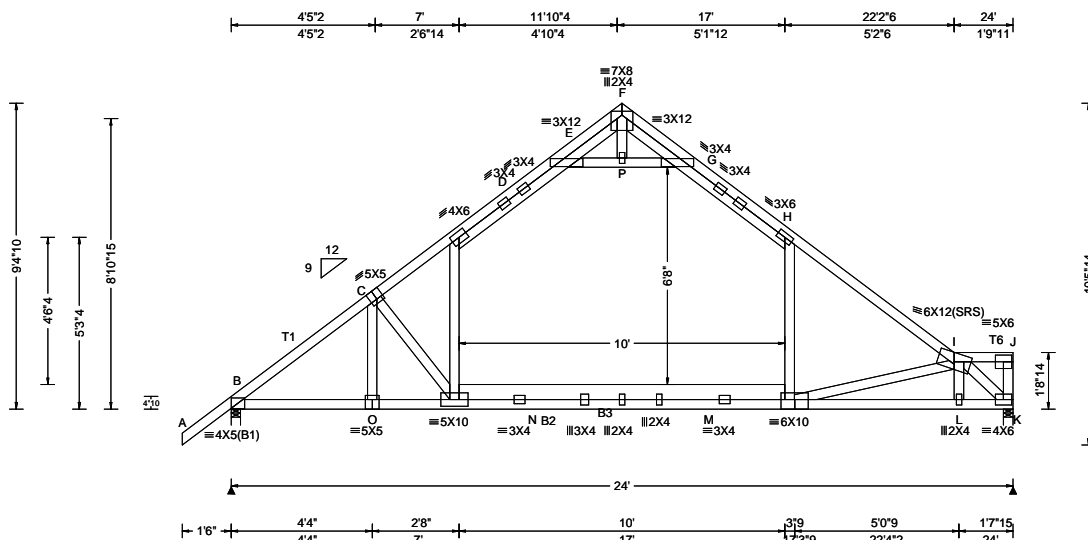


COA #0278
03/29/2022

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

SEQN: 57804 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B24	Cust: R 215 JRef: 1Xe92150011 T124 DrwNo: 088.22.1532.51760 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.421 P 679 240 VERT(CL): 0.866 G 330 180 HORZ(LL): -0.229 H - - HORZ(TL): 0.540 H - - Creep Factor: 2.0 Max TC CSI: 0.870 Max BC CSI: 0.817 Max Web CSI: 0.522 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1761 -/- /- /664 /101 /193 K 1628 -/- /- /553 /91 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 (Truss) K Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 489 -5289 E - F 308 -3385 E - F 4270 -375 F - G 4319 -385 G - H 426 -1926 F - G 321 -3447 B - C 147 -2378 H - I 150 -2253 C - D 181 -2292

Lumber

Top chord: 2x4 SP M-31; T1,T6 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40
PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls:
10 PSF

Purlins

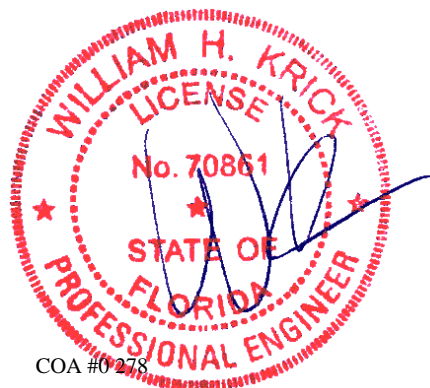
Collar-tie braced with continuous lateral bracing at 24"
oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

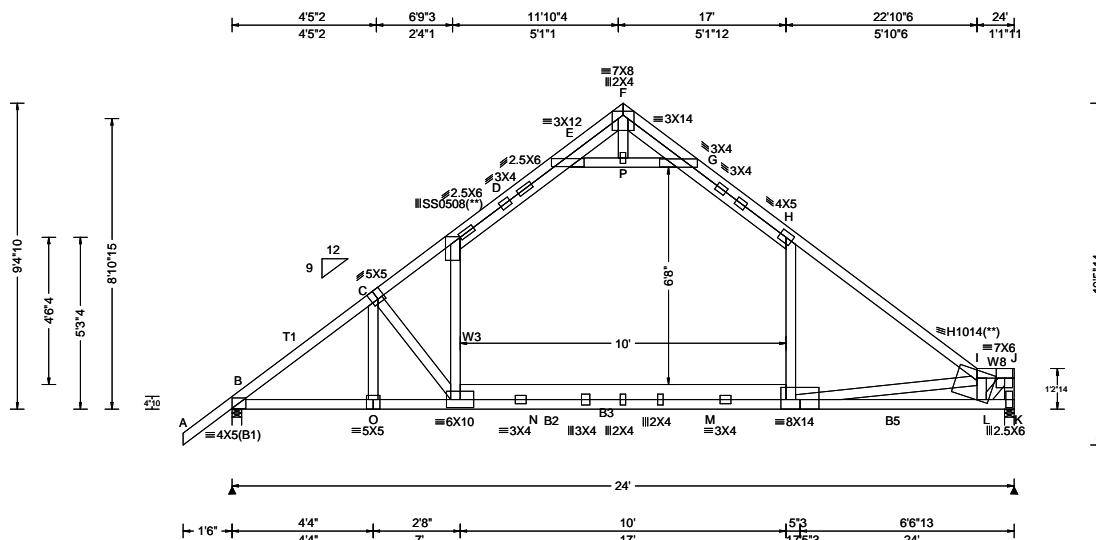
03/29/2022

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 57675 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B25	Cust: R 215 JRef: 1Xe92150011 T97 DrwNo: 088.22.1532.49513 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE, 18SS, HS	PP Deflection in loc L/def L/# VERT(LL): 0.430 G 665 240 VERT(CL): 0.918 H 311 180 HORZ(LL): -0.258 H - - HORZ(TL): 0.598 H - - Creep Factor: 2.0 Max TC CSI: 0.824 Max BC CSI: 0.703 Max Web CSI: 0.571 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1761 - / - / - /664 /102 /197 K 1628 - / - / - /562 /89 - / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 468 -4988 E - F 296 -3212 E - F 3983 -363 F - G 4115 -387 G - H 281 -1739 F - G 326 -3328 B - C 146 -2368 H - I 142 -2244 C - D 183 -2329 I - J 144 -1699

Lumber

Top chord: 2x4 SP M-31; T1 2x4 SP #2;
Bot chord: 2x4 SP #2; B2,B5 2x4 SP M-31;
B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3 2x4 SP M-31; W8 2x4 SP #2;

Plating Notes

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

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

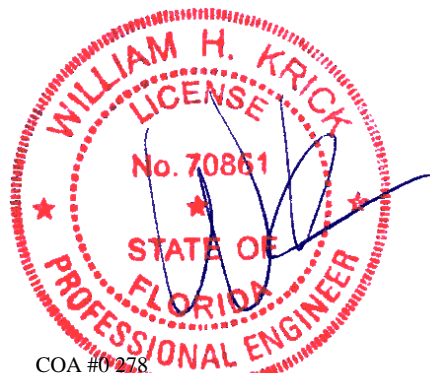
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



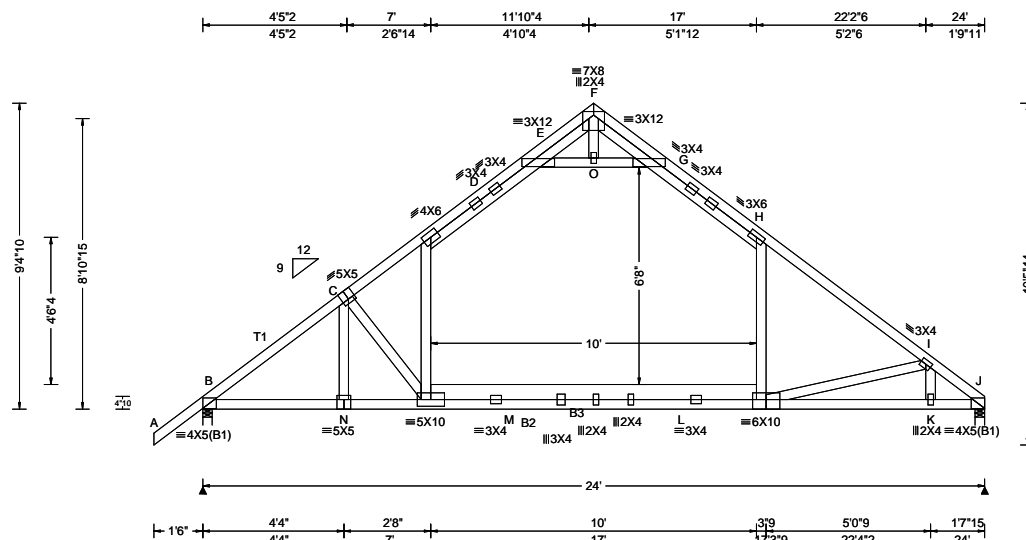
COA #0278

03/29/2022

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Suite 305
Orlando FL, 32821

SEQN: 57686 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B26	Cust: R 215 JRef: 1Xe92150011 T137 DrwNo: 088.22.1532.46860 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.401 O 708 240 VERT(CL): 0.804 G 353 180 HORZ(LL): -0.210 H - - HORZ(TL): 0.497 H - - Creep Factor: 2.0 Max TC CSI: 0.834 Max BC CSI: 0.769 Max Web CSI: 0.463 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1751 - / - / - / 661 / 102 / 204 J 1638 - / - / - / 583 / 87 / - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 (Truss) J Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. D - E 710 -5145 E - F 451 -3301 E - F 4173 -533 F - G 4265 -548 G - H 513 -1927 F - G 469 -3416 B - C 238 -2367 H - I 240 -2238 C - D 272 -2245 I - J 286 -2472

Lumber

Top chord: 2x4 SP M-31; T1 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Loading

Attic room loading from 7-0-0 to 17-0-0: Live Load: 40
PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls:
10 PSF

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

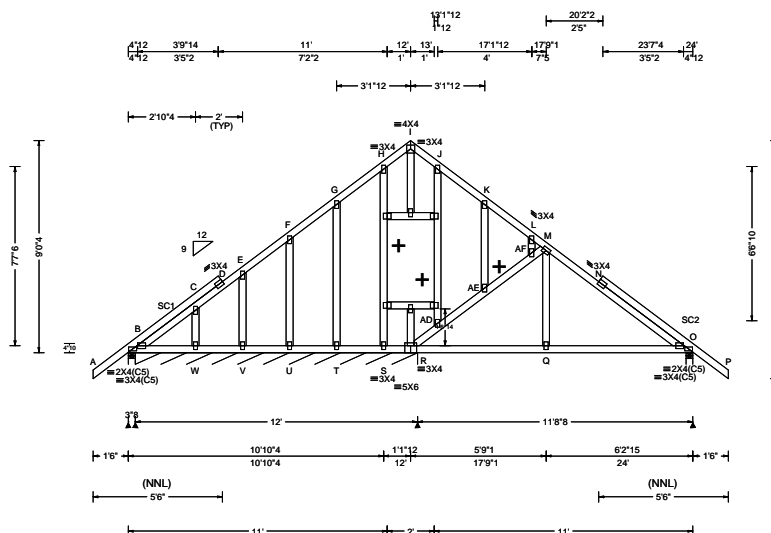
03/29/2022

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 84941 FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B27	Cust: R 215 JRef: 1Xe92150011 T117 DrwNo: 088.22.1532.44230 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 N 999 240 VERT(CL): 0.087 N 999 180 HORZ(LL): -0.023 N - - HORZ(TL): 0.048 N - - Creep Factor: 2.0 Max TC CSI: 0.418 Max BC CSI: 0.312 Max Web CSI: 0.481 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 344 -/- /- /163 /6 /215 B* 104 -/- /- /66 /16 /- O 655 -/- /- /401 /32 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) B Brg Wid = 143 Min Req = - O Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, B, & O are a rigid surface. 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 #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. R - Q 413 0 Q - O 411 0
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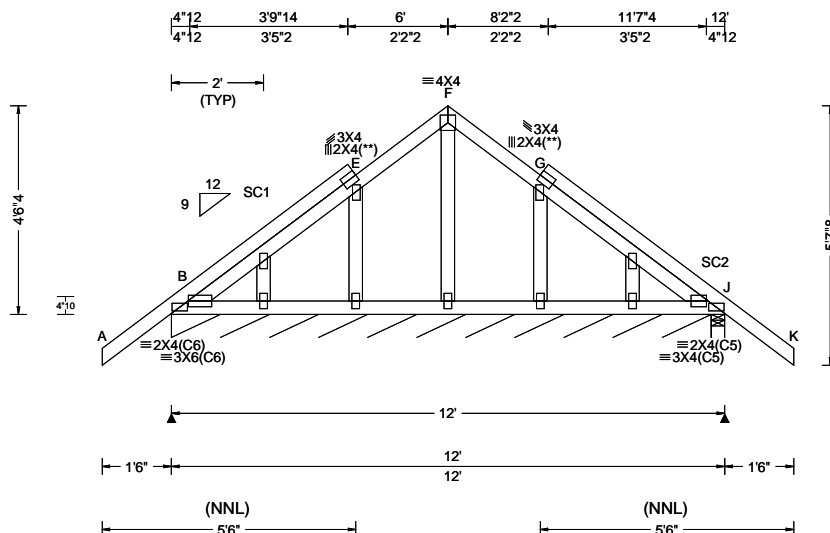
Plating Notes All plates are 2X4 except as noted.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. R -AD 175 -501 AE-AF 148 -429 AD-AE 172 -458 AF- M 175 -479
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Loading Gable end supports 8" max rake overhang. Top chord must not be cut or notched.	
Wind Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	

Additional Notes See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements. Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6. + Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.	Professional Engineer Seal: WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER COA #0278 03/29/2022
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SEQN: 57688 FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: B28	Cust: R 215 JRef: 1Xe92150011 T109 DrwNo: 088.22.1531.58503 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 B 999 240 VERT(CL): 0.003 B 999 180 HORZ(LL): 0.001 G - - HORZ(TL): 0.001 G - - Creep Factor: 2.0 Max TC CSI: 0.296 Max BC CSI: 0.065 Max Web CSI: 0.048 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B* 80 - / - /48 /6 /11 J 295 - / - /188 /30 /- Wind reactions based on MWFRS B Brg Wid = 140 Min Req = - J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375#

Lumber

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

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.

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in 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 #0278
03/29/2022

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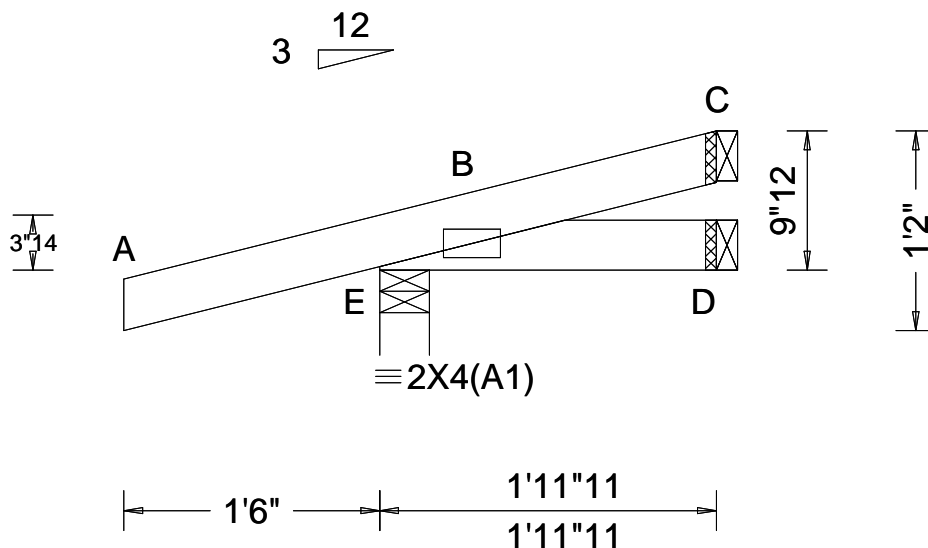
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SEQN: 57868 FROM:	JACK Ply: 1 Qty: 4	Job Number: 22-7038 Culverhouse Truss Label: J01	Cust: R 215 JRef: 1Xe92150011 T11 DrwNo: 088.22.1531.56127 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.168 Max BC CSI: 0.028 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 231 - / - /120 /59 /22 D 23 - / - /13 /4 - C 21 - / - /13 /7 - Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

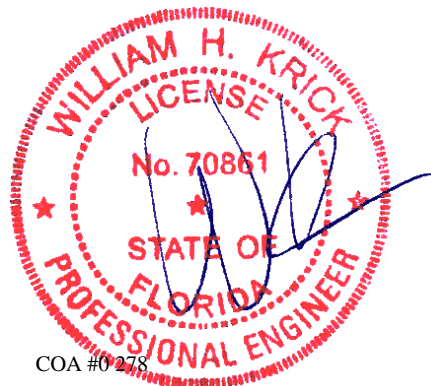
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

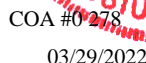


COA #0278
03/29/2022

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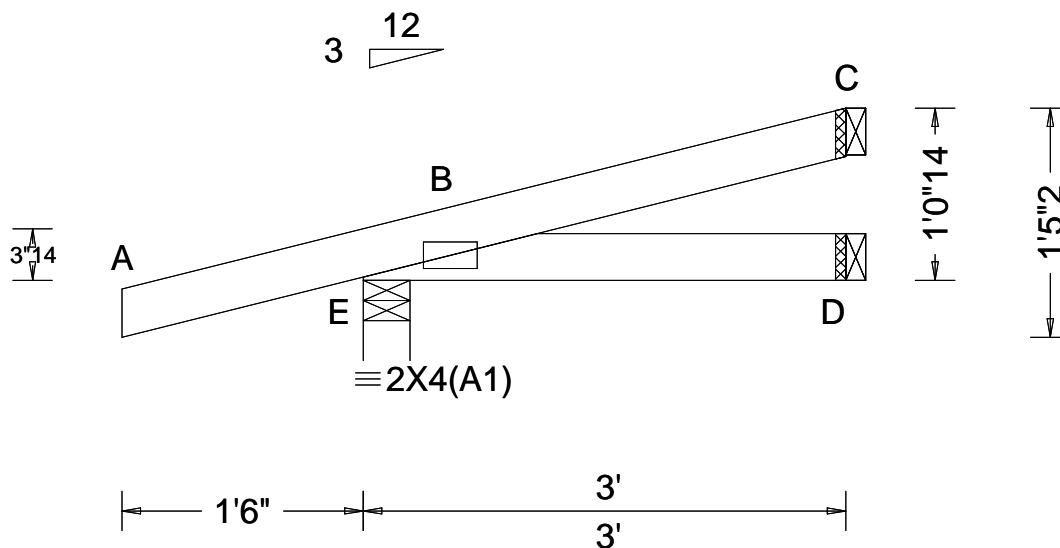
<div>Lumber Top chord: 2x4 SP M-31; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3;</div> <div>Loading Hipjack supports 7-0-0 setback jacks with no webs.</div> <div>Wind Wind loads and reactions based on MWFRS. Wind loading based on both gable and hip roof types.</div>	B - C		150 - 1409	
	Maximum Bot Chord Forces Per Ply (lbs)			
	Chords	Tens.Comp.	Chords	Tens. Comp.
	B - G	1385 - 149	G - F	1373 - 158
	Maximum Web Forces Per Ply (lbs)			
	Webs	Tens.Comp.		
	C - F	160 - 1390		



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SEQN: 57864 FROM:	JACK Ply: 1 Qty: 4	Job Number: 22-7038 Culverhouse Truss Label: J02	Cust: R 215 JRef: 1Xe92150011 T14 DrwNo: 088.22.1531.51120 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.058 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 255 - / - /132 /55 /28 D 46 - / - /25 - / - C 59 - / - /26 /15 - Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

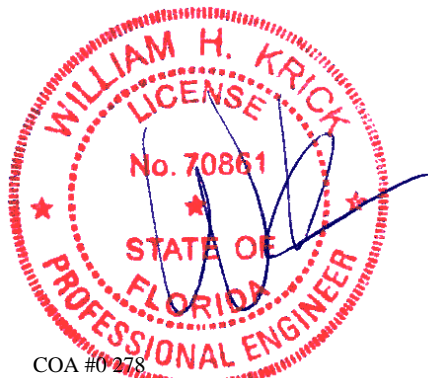
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

03/29/2022

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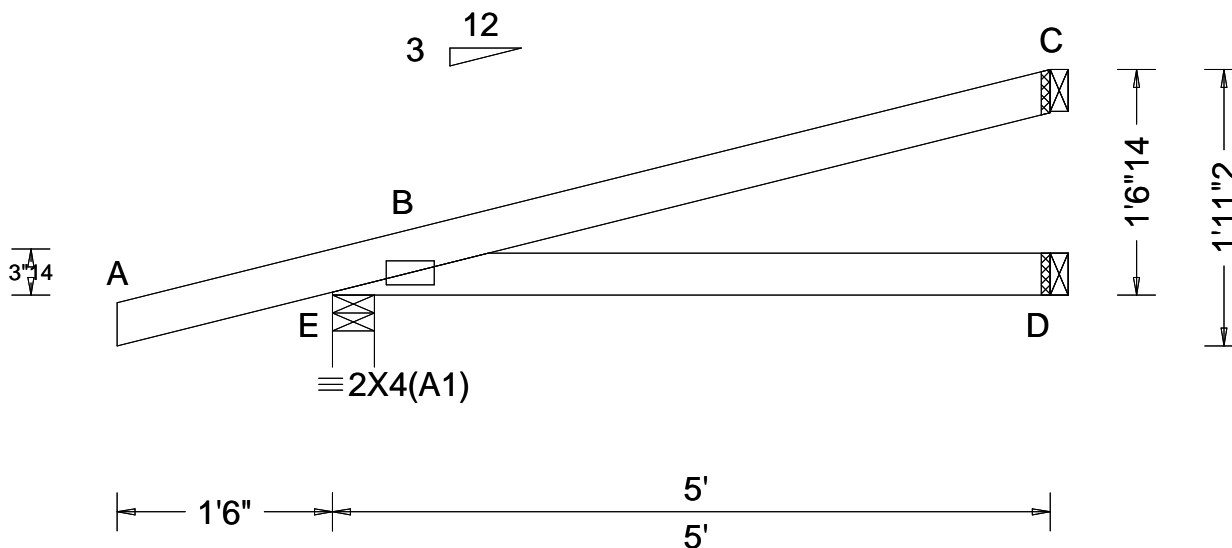
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SEQN: 57837 FROM:	JACK Ply: 1 Qty: 4	Job Number: 22-7038 Culverhouse Truss Label: J03	Cust: R 215 JRef: 1Xe92150011 T18 DrwNo: 088.22.1531.49497 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.278 Max BC CSI: 0.212 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 323 - / - /167 /54 /38 D 86 - / - /47 - / - C 121 - / - /49 /30 - Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

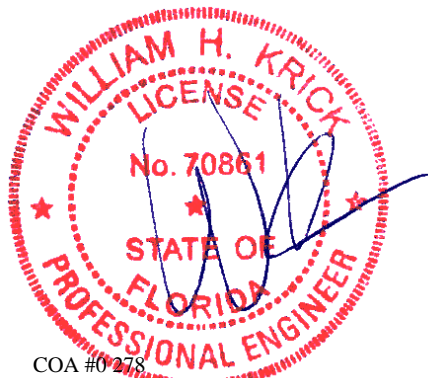
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278
03/29/2022

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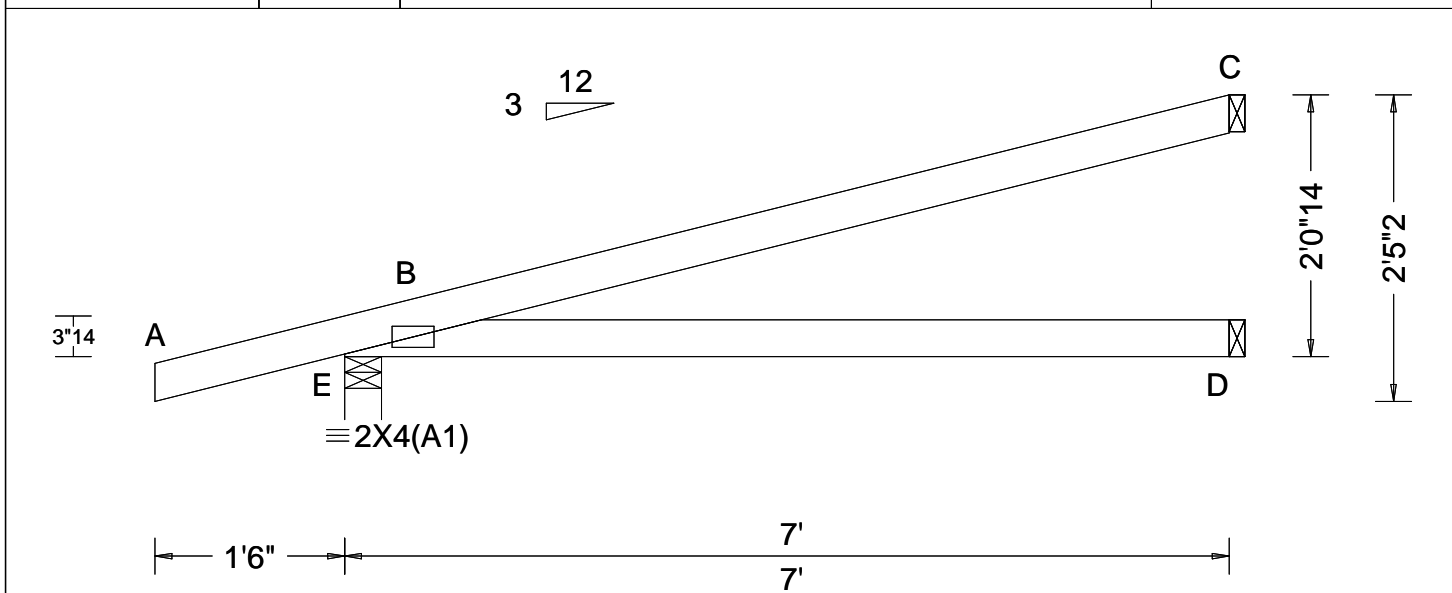
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SEQN: 57776 FROM:	EJAC Ply: 1 Qty: 18	Job Number: 22-7038 Culverhouse Truss Label: J04	Cust: R 215 JRef: 1Xe92150011 T21 DrwNo: 088.22.1531.47623 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.015 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.654 Max BC CSI: 0.477 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 398 - / - / - /205 /57 /49 D 125 - / - / - /68 - / - C 179 - / - / - /70 /45 - Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

03/29/2022

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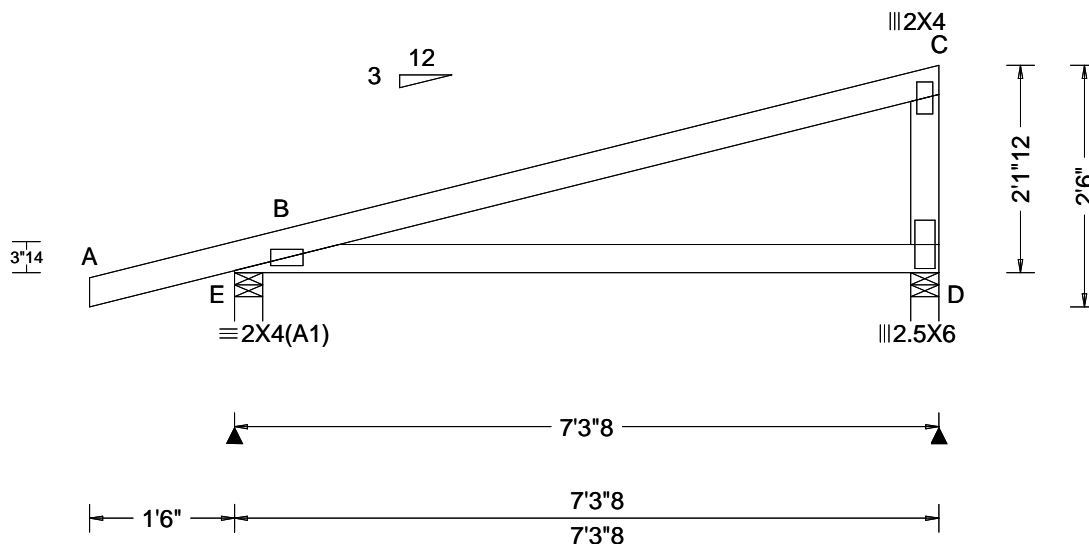
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SEQN: 57777 FROM:	MONO Ply: 1 Qty: 13	Job Number: 22-7038 Culverhouse Truss Label: J06	Cust: R 215 JRef: 1Xe92150011 T59 DrwNo: 088.22.1531.44817 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.015 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.480 Max Web CSI: 0.230 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 409 -/- /- /211 /58 /50 D 276 -/- /- /145 /21 /- Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings E & D are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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



COA #0278

03/29/2022

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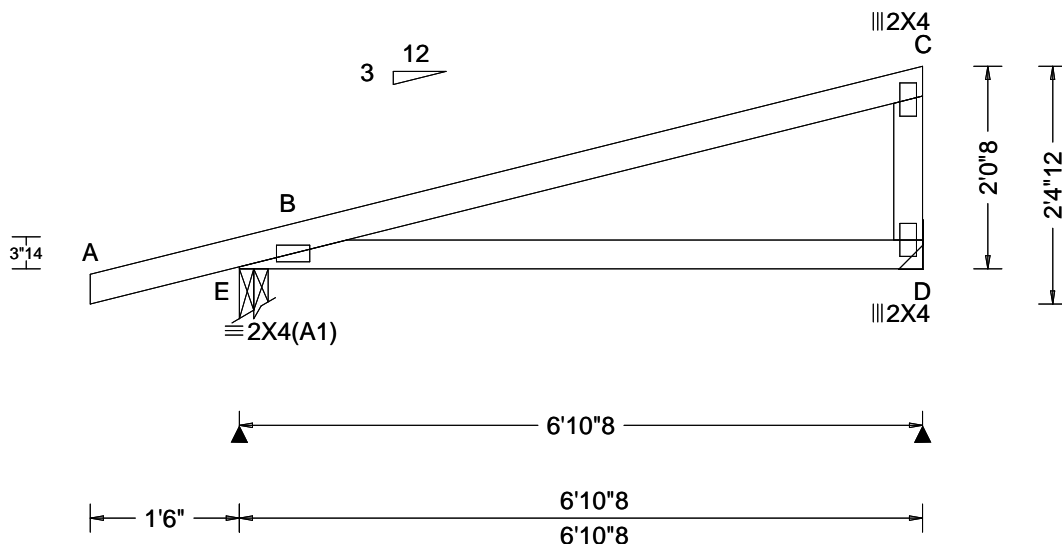
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SEQN: 57788 FROM:	MONO Ply: 1 Qty: 4	Job Number: 22-7038 Culverhouse Truss Label: J07	Cust: R 215 JRef: 1Xe92150011 T50 DrwNo: 088.22.1531.43130 KD / WHK 03/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.013 B - - HORZ(TL): 0.025 B - - Creep Factor: 2.0 Max TC CSI: 0.565 Max BC CSI: 0.420 Max Web CSI: 0.190 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 393 - / - /203 /57 /47 D 258 - / - /136 /19 - Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Hangers / Ties

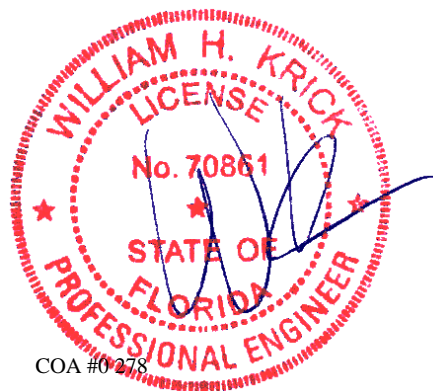
(J) Hanger Support Required, by others

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

03/29/2022

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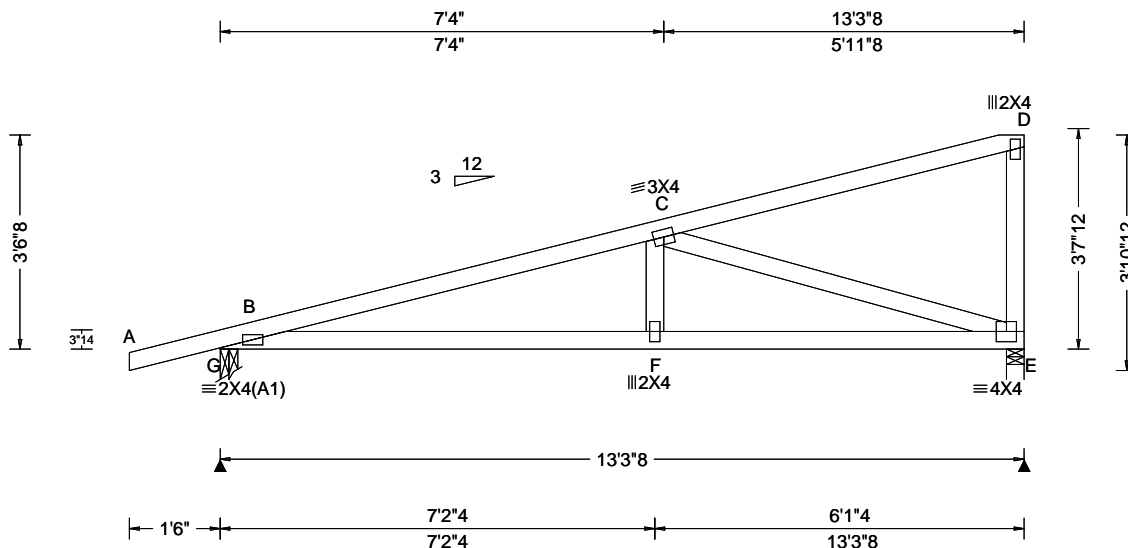
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57818 FROM:	HIPM Qty: 1	Job Number: 22-7038 Culverhouse Truss Label: J08	Cust: R 215 JRef: 1Xe92150011 T111 DrwNo: 088.22.1531.41430 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 3.0 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.043 F 999 240 VERT(CL): 0.084 F 999 180 HORZ(LL): 0.012 E - - HORZ(TL): 0.023 E - - Creep Factor: 2.0 Max TC CSI: 0.495 Max BC CSI: 0.611 Max Web CSI: 0.840 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 645 - / - /332 /69 /84 E 525 - / - /261 /64 - Non-Gravity Wind reactions based on MWFRS G Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 263 - 1174

Lumber

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

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	1103 -334	F - E	1093 -336

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	348 - 1132



COA #0278

03/29/2022

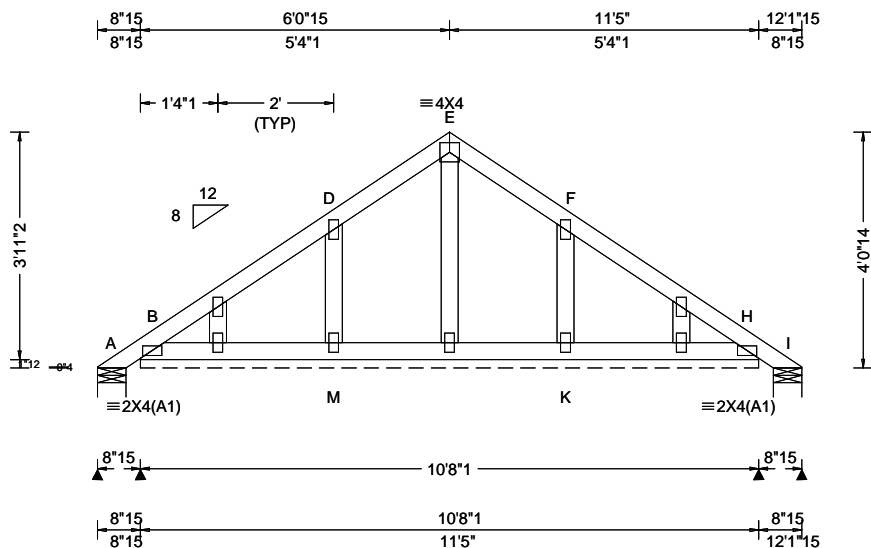
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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6750 Forum Drive
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SEQN: 57822 FROM:	GABL Qty: 2	Ply: 1 Qty: 2	Job Number: 22-7038 Culverhouse Truss Label: PB01	Cust: R 215 JRef: 1Xe92150011 T108 DrwNo: 088.22.1531.39573 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 21.05 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.14 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 E 999 240 VERT(CL): 0.001 E 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.018 Max Web CSI: 0.030 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 19 /- /- /55 /41 /78 B* 71 /- /- /52 /1 /- I 19 /- /- /15 /1 /- Wind reactions based on MWFRS A Brg Wid = 5.9 Min Req = 1.5 (Truss) B Brg Wid = 128 Min Req = - I Brg Wid = 5.9 Min Req = 1.5 (Truss) Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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 A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



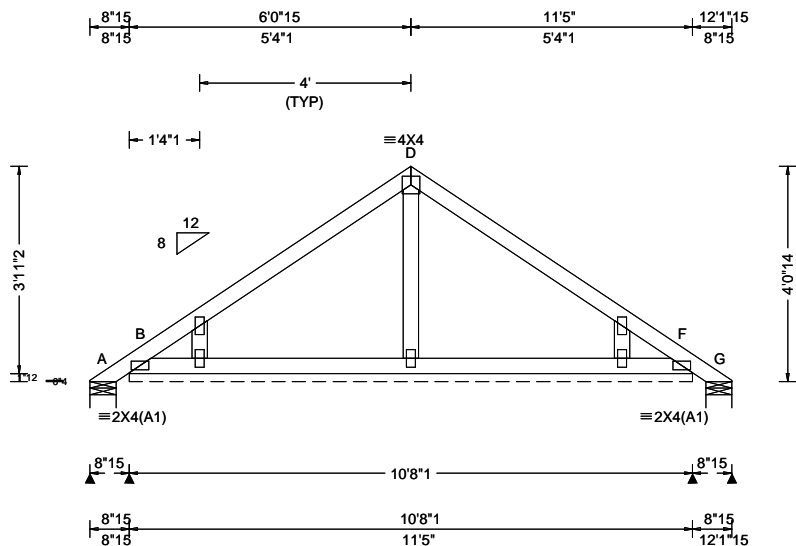
COA #0278

03/29/2022

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6750 Forum Drive
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Orlando FL, 32821

SEQN: 57780 FROM:	COMN Ply: 1 Qty: 12	Job Number: 22-7038 Culverhouse Truss Label: PB02	Cust: R 215 JRef: 1Xe92150011 T102 DrwNo: 088.22.1531.38173 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 21.05 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.14 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.001 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.053 Max Web CSI: 0.054 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 30 - / - /58 /38 /78 B* 69 - / - /51 /1 - G 30 - / - /22 /3 - Wind reactions based on MWFRS A Brg Wid = 5.9 Min Req = 1.5 (Truss) B Brg Wid = 128 Min Req = - G Brg Wid = 5.9 Min Req = 1.5 (Truss) Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

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 A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



COA #0278

03/29/2022

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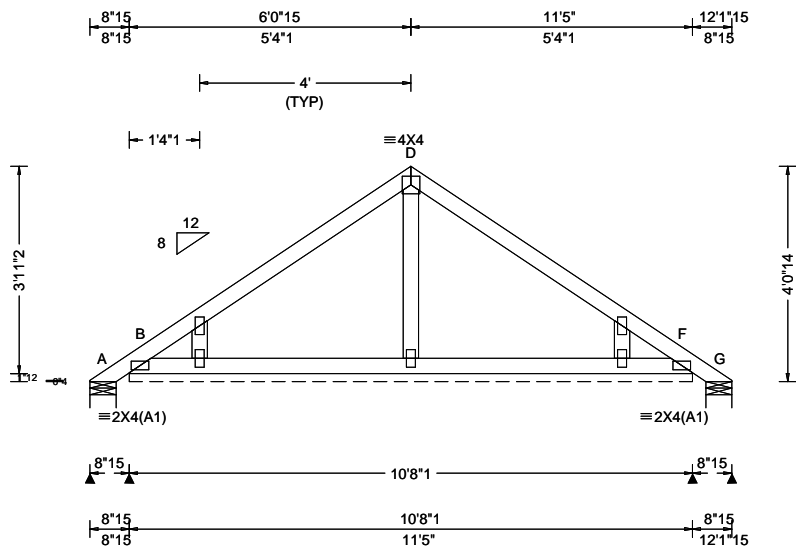
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57820 FROM:	COMN Ply: 1 Qty: 2	Job Number: 22-7038 Culverhouse Truss Label: PB03	Cust: R 215 JRef: 1Xe92150011 T75 DrwNo: 088.22.1531.36700 KD / WHK 03/29/2022
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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: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 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: B Kzt: NA Mean Height: 0.00 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: > 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)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.001 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.055 Max Web CSI: 0.054 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 30 - / - /59 /38 /78 B* 69 - / - /51 /0 - G 30 - / - /22 /3 - Wind reactions based on MWFRS A Brg Wid = 5.9 Min Req = 1.5 (Truss) B Brg Wid = 128 Min Req = - G Brg Wid = 5.9 Min Req = 1.5 (Truss) Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

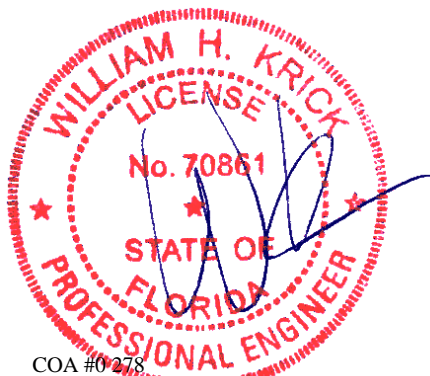
Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.



COA #0278

03/29/2022

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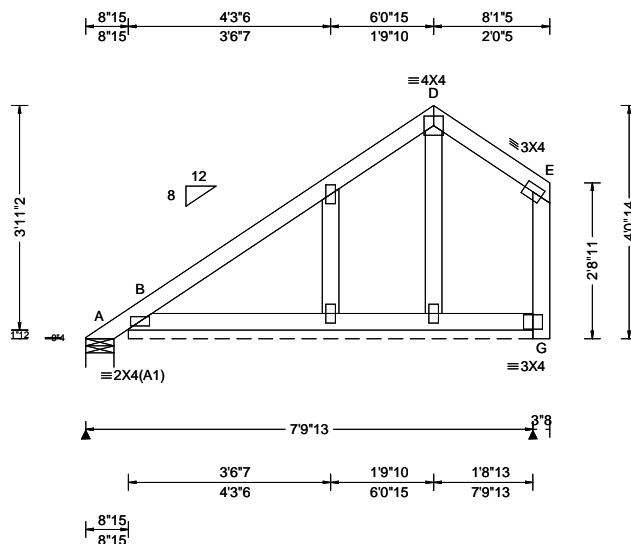
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 57824 FROM:	COMN Ply: 1 Qty: 3	Job Number: 22-7038 Culverhouse Truss Label: PB04	Cust: R 215 JRef: 1Xe92150011 T105 DrwNo: 088.22.1531.35123 KD / WHK 03/29/2022
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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	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 B 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 180	A	-	/-37	/-	/53	/60	/71
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 B - -	B*	81	/-	/-	/63	/8	/-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0	A Brg Wid = 5.9 Min Req = 1.5 (Truss)						
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.091	B Brg Wid = 84.9 Min Req = -						
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.035	Bearings A & B are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.039	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 9.00 ft	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Refer to DWG PB160160118 for piggyback details.



COA #0278

03/29/2022

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6750 Forum Drive
Suite 305
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Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

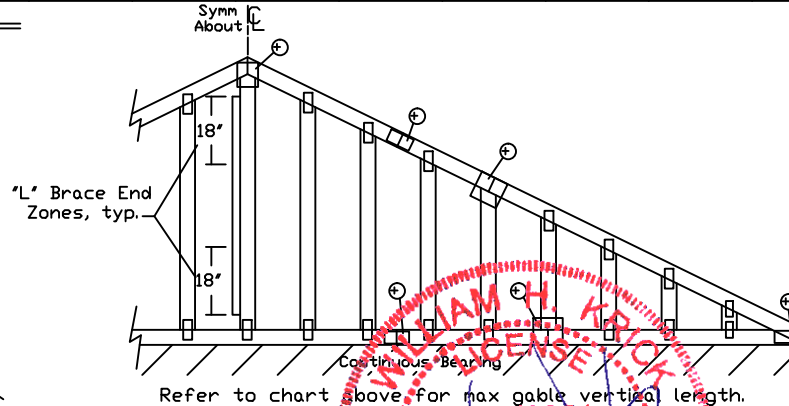
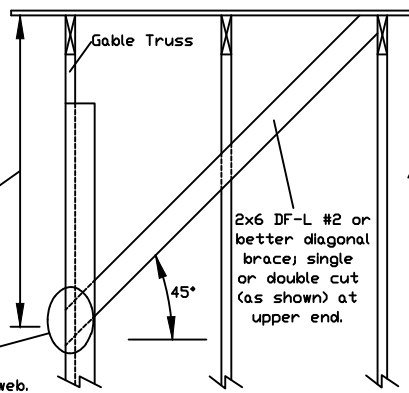
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
			#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
			Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	#1	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
			#2	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
	SP	DFL	#1	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
			#2	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
			Stud	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
			Stud	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	#1	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
			#2	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
			#2	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
			Stud	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	#1	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#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 100 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' braces: 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"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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

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

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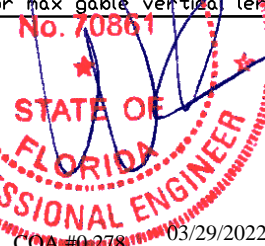
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

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

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



514 Earth City Expressway
Suite 242
Earth City, MO 63045



MAX. TOT. LD. 60 PSF

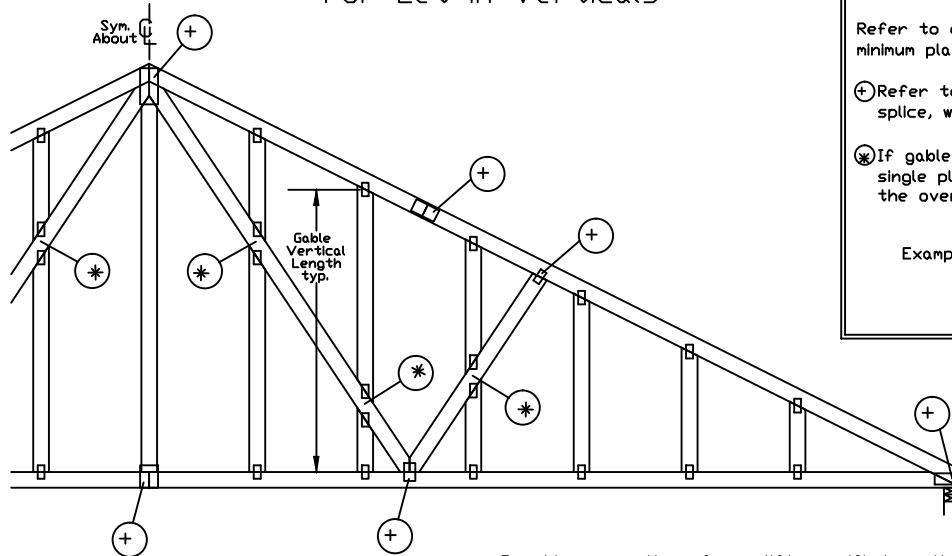
MAX. SPACING 24.0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

Gable Detail For Let-in Verticals

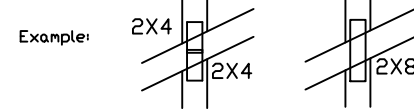


Gable Truss Plate Sizes

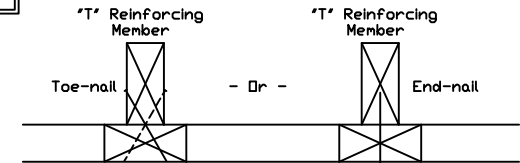
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



'T' Reinforcement Attachment Detail



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

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

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

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' 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"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",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.

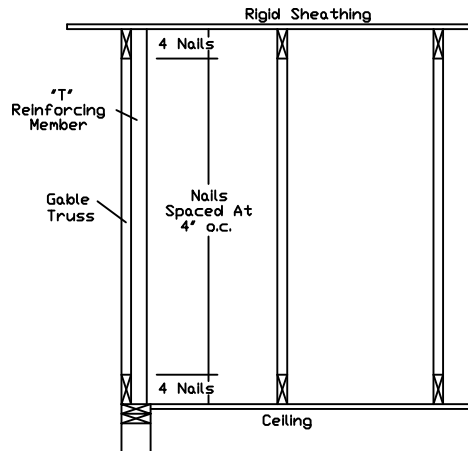
ASCE 7-05 Gable Detail Drawings

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, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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For more information see this job's general notes page and these web sites:

ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045

No. 70861

STATE OF
FLORIDA

COA #0278

03/29/2022

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

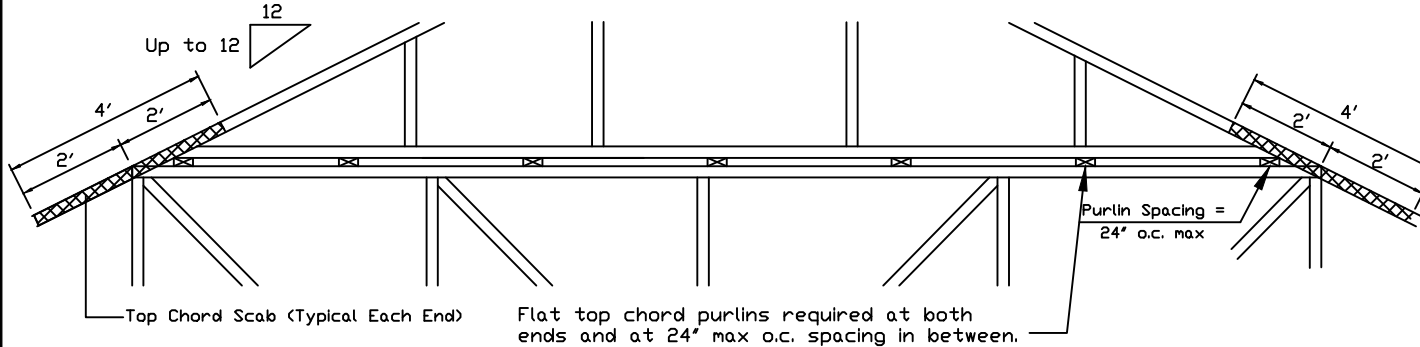
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

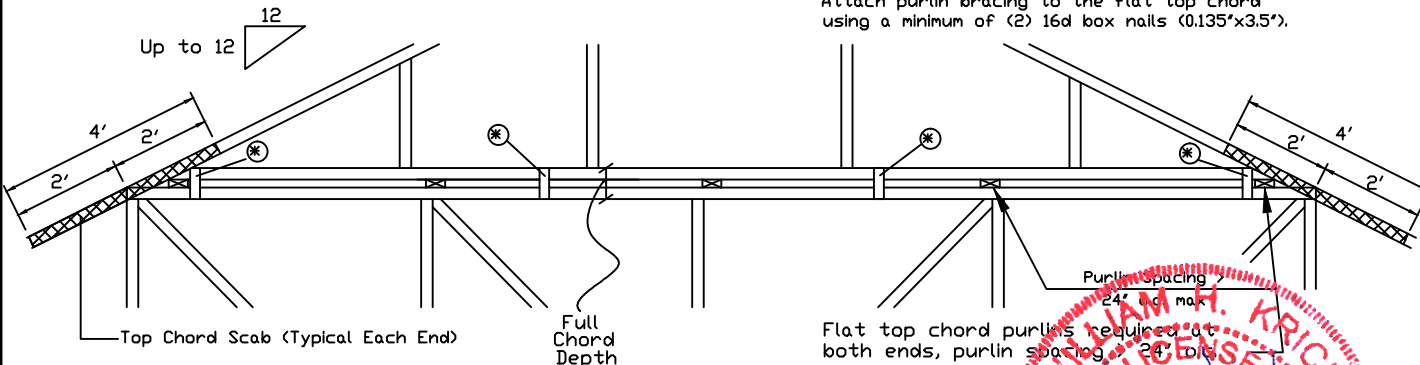


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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 plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

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



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

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

* In addition, provide connection with one of the following methods:

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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

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514 Earth City Expressway
Suite 242
Earth City, MO 63045

No. 70861

STATE OF FLORIDA
PROFESSIONAL ENGINEER

00A #0278 03/29/2022

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"

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

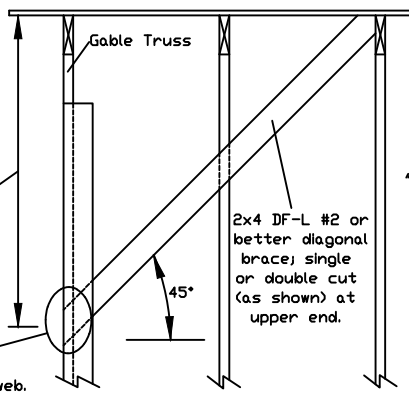
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

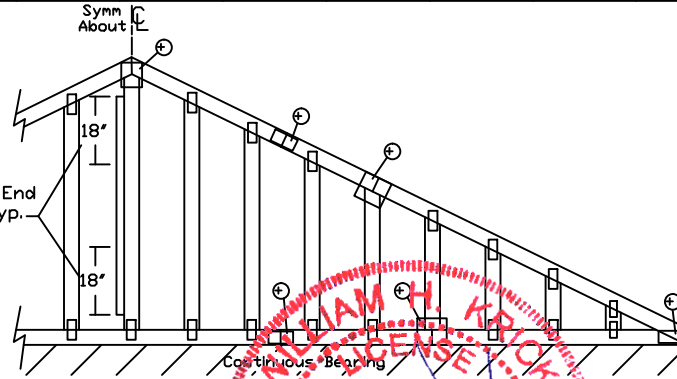
Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



'L' Brace End Zones, typ.



Refer to chart above for max gable vertical length.

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3	Stud	#3	Stud
	Standard		Standard

Group B:			
Hem-Fir			
#1 & Btr	#1		
Douglas Fir-Larch		Southern Pine***	
#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' braces: 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.



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 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.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
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 For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

No. 70861
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 GCA #0278 03/29/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

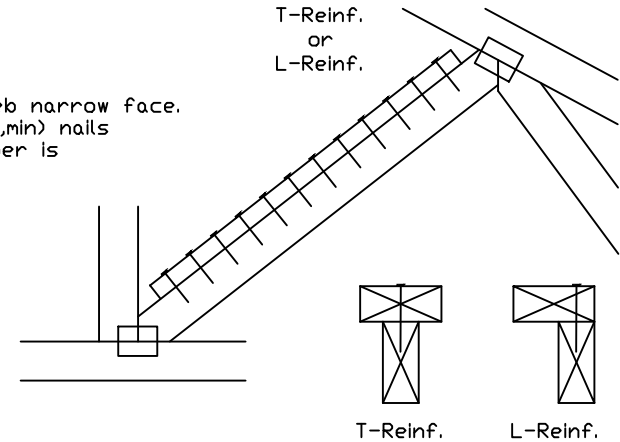
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

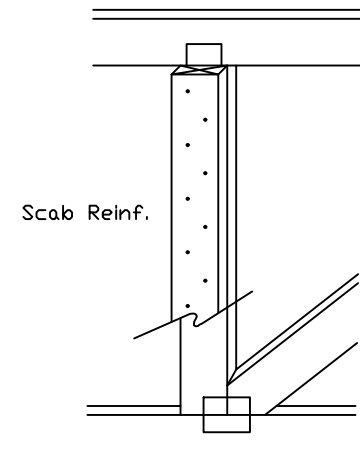
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



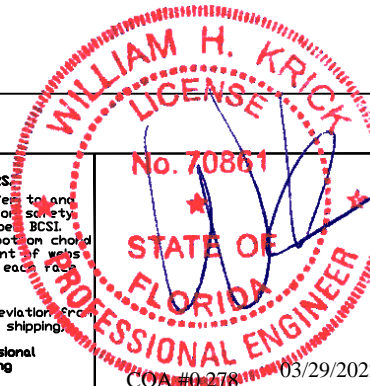
Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.

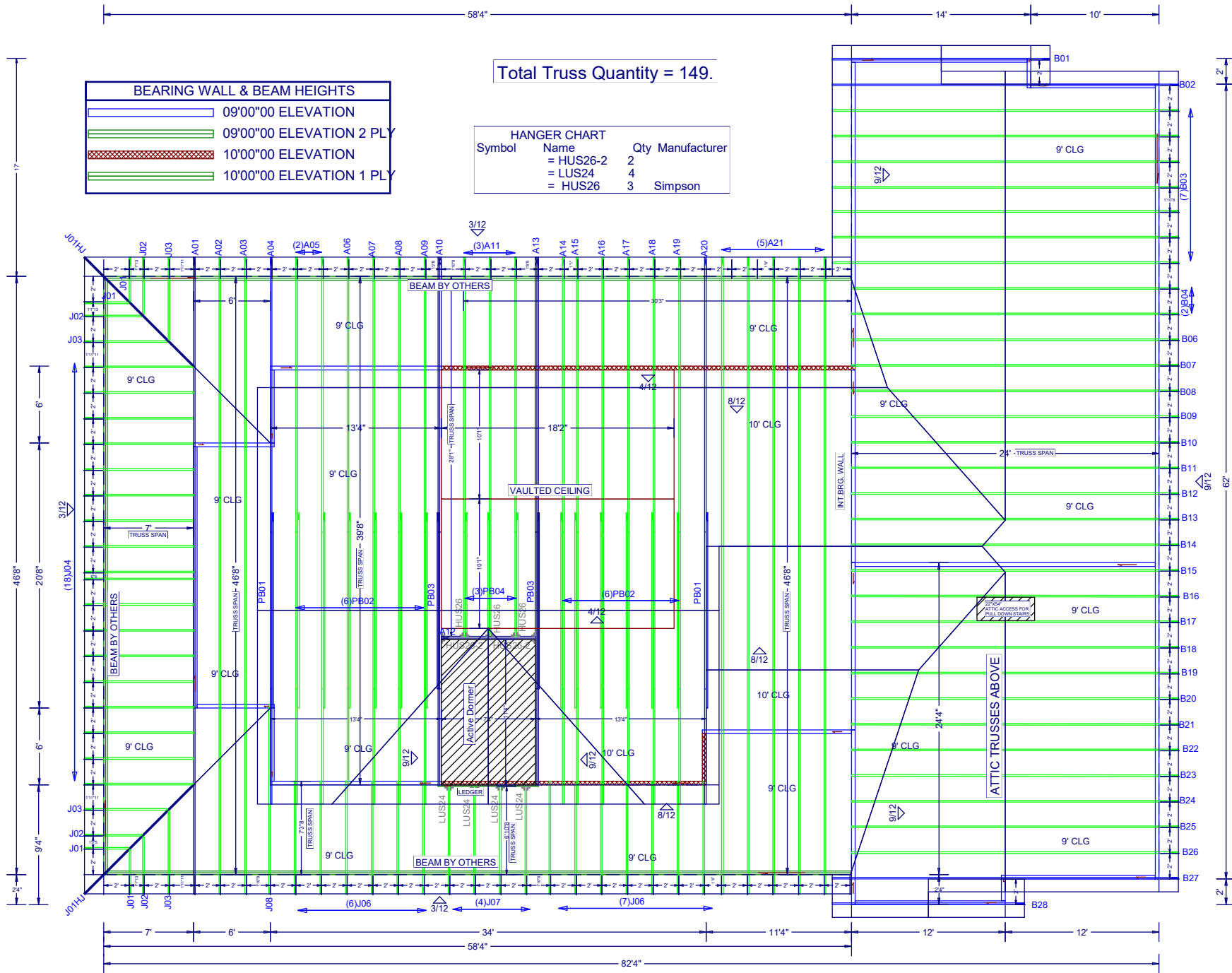


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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 01/02/19
BC DL	PSF	DRWG BRCLBSUB0119
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		



JOB #: 22-7038

Job Name: Culverhouse
 Customer: SPARKS CONST.
 Designer: Fill in later
 ADDRESS:
 SALESMAN: SB
 : <Not Found>

JOB NO:
 22-7038

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