

ALPINE
AN ITW COMPANY

11/17/2023

FL REQ# 278, David J. Rothweiler, FL PE# 88430

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

This item has been electronically signed and sealed by David J. Rothweiler on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

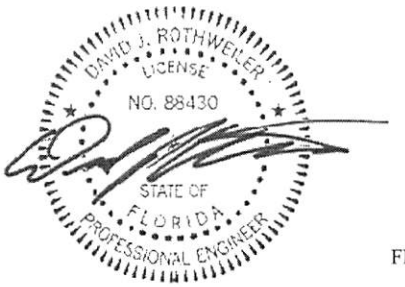
Site Information:	**Page 1:**
Customer: Kora Compoments, LLC	*Job Number:* KTQ23455-BLDG-EMERALD-R-Rev-2
Job Description: Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	
Address: EMERALD MASTER PARCEL ID: XXX GLADES COUNTY, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 22.02.00 *JRef #:* 1XUU94190007
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 145 *Building Type:* Closed	*Design Loading (psf):* 48.00

This package contains general notes pages, 42 truss drawing(s) and 8 detail(s).

Item	Drawing Number	Truss
1	321.23.0622.53207	A01
3	321.23.0622.59683	A03
5	321.23.0623.04183	A05
7	321.23.0623.07183	A07
9	321.23.0623.10363	A09
11	321.23.0623.13320	A11
13	321.23.0623.16957	A13
15	321.23.0623.21720	A15
17	321.23.0623.26820	A17
19	321.23.0623.31180	A19
21	321.23.0623.34140	CJ02
23	321.23.0623.37867	F01
25	321.23.0623.44467	G02
27	321.23.0623.51050	G04
29	321.23.0623.59377	G06
31	321.23.0624.03783	G09
33	321.23.0624.07933	GE02
35	321.23.0624.11110	J03
37	321.23.0624.13970	PB01
39	321.23.0624.16653	PB04
41	321.23.0624.19500	V02
43	BRCLBSUB0119	
45	A18030ENC160118	

Item	Drawing Number	Truss
2	321.23.0622.56517	A02
4	321.23.0623.02540	A04
6	321.23.0623.05587	A06
8	321.23.0623.08747	A08
10	321.23.0623.11863	A10
12	321.23.0623.14983	A12
14	321.23.0623.18543	A14
16	321.23.0623.24253	A16
18	321.23.0623.29433	A18
20	321.23.0623.32520	CJ01
22	321.23.0623.35847	CJ03
24	321.23.0623.41697	G01
26	321.23.0623.48930	G03
28	321.23.0623.52510	G05
30	321.23.0624.01860	G07
32	321.23.0624.06067	GE01
34	321.23.0624.09623	GE03
36	321.23.0624.12530	J04
38	321.23.0624.15297	PB02
40	321.23.0624.18097	V01
42	321.23.0624.23220	V03
44	STRBRIBR1014	
46	CNNAILSP1014	



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Site Information:	**Page 2:**
Customer: Kora Compoments, LLC	*Job Number:* KTQ23455-BLDG-EMERALD-R-Rev-2
Job Description: Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	
Address: EMERALD MASTER PARCEL ID: XXX GLADES COUNTY, FL	

Item	Drawing Number	Truss
47	GBLLETIN0118	
49	VAL180160118	

Item	Drawing Number	Truss
48	PB180160118	
50	VALTN160118	

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.

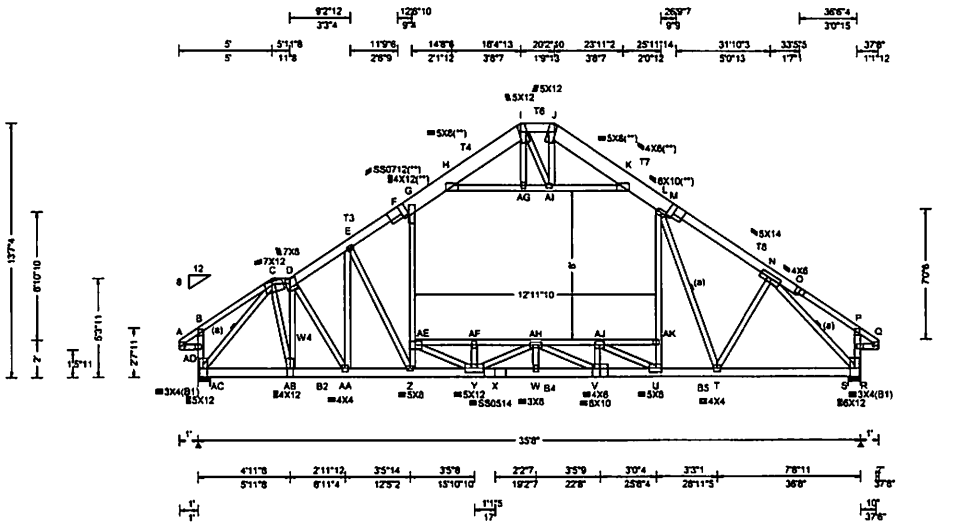
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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.
FRT-PR = ProWood 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 all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for 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.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; 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: 120523 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A01	Cust: R 9419 JRef:1XUU94190007 T29 DrwNo: 321.23.0622.53207 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 28.46 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.77 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.187 G	999	360
VERT(CL):	0.425 Z	990	240
HORZ(LL):	0.147 L	-	-
HORZ(TL):	0.256 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.405
Max Web CSI: 0.856

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AC	2857 /-	/-	/1347	/970	/518
S	2897 /-	/-	/1354	/971	/-

Wind reactions based on MWFRS
AC Brg Wid = 7.6 Min Req = 2.4 (Truss)
S Brg Wid = 7.6 Min Req = 2.4 (Truss)
Bearings AC & S 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.
C - D	899	-2329	H - I	280	-521
D - E	1148	-3139	J - K	286	-547
E - F	1226	-3265	K - L	1131	-2558
F - G	1230	-3141	L - M	1176	-2799
G - H	1111	-2525	M - N	1172	-3036

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AC-AB	1886	-530	X - W	4131	-457
AB-AA	2332	-662	W - V	4131	-457
AA- Z	2644	-676	V - U	3647	-475
Z - Y	2575	-536	U - T	2514	-529
Y - X	4131	-457	T - S	2145	-634

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC- C	862	-3102	AF-AH	211	-1395
C -AB	2333	-697	AG-AI	1082	-2390
D -AB	717	-2213	AH- V	282	-665
D -AA	580	-24	AH-AJ	246	-1282
AA- E	239	-541	AI- J	383	-204
E - Z	610	-731	AI- K	1106	-2446
G -AE	1142	-237	AJ- U	163	-1369
Z -AE	396	-249	U -AK	1063	-286
[illegible] Y	1465	-133	AK- L	1183	-289
AE-AF	211	-1401	L - T	443	-573
H -AG	1089	-2412	T - N	646	-194
Y -AH	313	-523	N - S	988	-3336

Lumber

Top chord: 2x4 SPF #1/#2; T3, T8 2x6 SP 2400f-2.0E; T4,T7 2x10 SP #1; T6 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B4, B5 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W4 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 12-8-10 to 25-8-4: 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.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

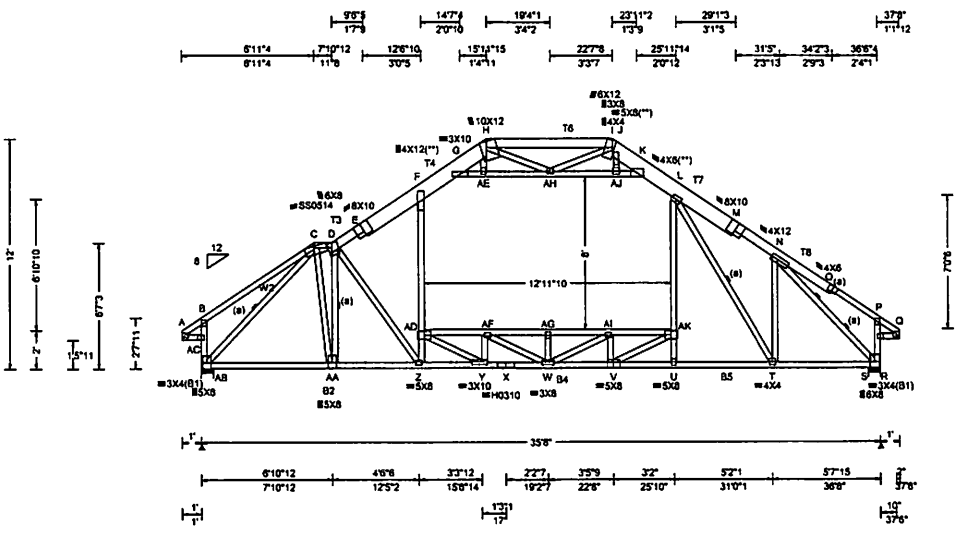
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR 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

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Glenview, IL 60025

SEQN: 118670 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A02	Cust: R 9419 JRef: 1XUU94190007 T24 DrwNo: 321.23.0622.56517 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 27.65 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.77 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.175	Z	999	360
VERT(CL): 0.465	Z	904	240
HORZ(LL): 0.137	L	-	-
HORZ(TL): 0.290	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.849
Max BC CSI: 0.417
Max Web CSI: 0.811

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
AB	2857	/-	/-	/1351	/951	/445
S	2897	/-	/-	/1356	/952	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 2.4 (Truss)
S Brg Wid = 7.6 Min Req = 2.4 (Truss)
Bearings AB & S 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.
C - D	977	-2519	I - J	381	-581
D - E	1123	-3178	J - K	467	-855
E - F	1151	-3110	K - L	1104	-2511
F - G	1083	-2468	L - M	1240	-2762
G - H	541	-1039	M - N	1215	-2864
H - I	346	-540			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB-AA	2172	-554	W - V	3695	-441
AA- Z	2515	-651	V - U	2441	-500
Z - Y	2516	-519	U - T	2464	-507
Y - X	3798	-463	T - S	2213	-613
X - W	3798	-463			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AC	482	-486	AF-AG	0	-1574
AC-AB	411	-442	W -AI	499	-79
AB- C	736	-3151	AG-AI	0	-1574
C -AA	2283	-644	AH- I	411	-361
D -AA	673	-2132	AH-AJ	876	-2232
D - Z	423	-501	AI- V	45	-579
F -AD	1042	-211	AI-AK	52	-1163
AD- Y	1339	0	V -AK	1304	0
AD-AF	46	-1269	AJ- J	637	-225
G -AE	806	-2111	AJ- K	944	-2422
Y -AF	50	-532	AK- L	1058	-22
AE- H	540	-184	L - T	452	-704
AE-AH	804	-2105	T - N	698	-328
H -AH	372	-414	N - S	915	-3349
AF- W	396	-85			

Lumber

Top chord: 2x4 SPF #1/#2; T3,T6,
T8 2x6 SPF #1/#2; T4,T7 2x10 SP #1;
Bot chord: 2x4 SPF #1/#2; B2,B4,
B5 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 12-8-10 to 25-8-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

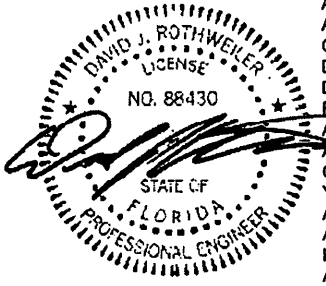
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

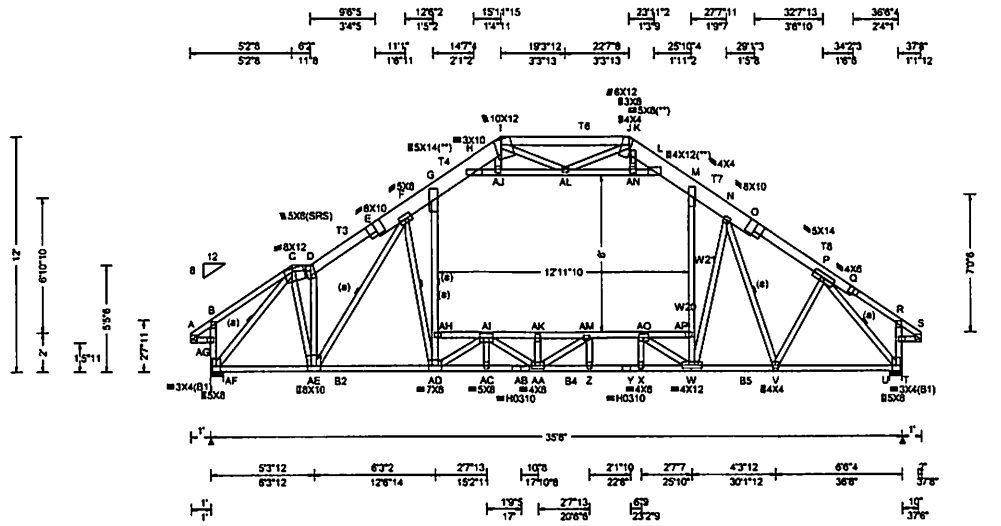


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118926 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A03	Cust: R 9419 JRef:1XUU94190007 T5 DrwNo: 321.23.0622.59683 / FK 11/17/2023



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#
TCDL:	18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.193 AK	999	360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.481 AC	875	240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.115 G	-	-
Des Ld:	48.00	EXP: D Kzt: NA		HORZ(TL):	0.293 F	-	-
NCBCLL:	10.00	Mean Height: 27.65 ft	Building Code:	Creep Factor: 2.0			
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.736			
Load Duration:	1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.682			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.824			
		C&C Dist a: 3.77 ft	FT/RT:20(0)/10(0)				
		Loc. from endwall: Any	Plate Type(s):				
		GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21			
		Wind Duration: 1.60					

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AF	2857	/-	/-	/1349	/951	/445
U	2897	/-	/-	/1355	/952	/-

Wind reactions based on MWFRS
AF Brg Wid = 7.6 Min Req = 2.4 (Truss)
U Brg Wid = 7.6 Min Req = 2.4 (Truss)
Bearings AF & U 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.
C - D	916	-2420	J - K	420	-657
D - E	1159	-2883	K - L	507	-929
E - F	1171	-2737	L - M	1097	-2506
F - G	1380	-3535	M - N	1266	-3185
G - H	1078	-2451	N - O	1087	-2699
H - I	572	-1098	O - P	1077	-2862
I - J	398	-645			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AF-AE	1906	-520	Z - Y	3670	-423
AE-AD	2655	-628	Y - X	3670	-423
AD-AC	3451	-466	X - W	3641	-426
AC-AB	3451	-466	W - V	2506	-584
AB-AA	3451	-466	V - U	1929	-566
AA- Z	3694	-424			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AF- C	836	-3108	AA-AM	446	-102
C -AE	2437	-721	AK-AM	0	-1521
D -AE	783	-1769	AL- J	456	-371
AE- F	164	-680	AL-AN	813	-2206
F -AD	787	-1197	AM-AO	33	-1224
G -AH	2118	-652	AN- K	632	-208
AD-AI	0	-1140	AN- L	876	-2395
AH-AD	2015	-651	AO- W	0	-1451
H -AJ	753	-1935	W - N	742	-823
AI-AA	715	-32	AP- W	1371	-590
AI-AK	0	-1521	AP- M	1396	-602
AJ- I	499	-172	N - V	138	-691
AJ-AL	751	-1929	V - P	863	-62
AL-	678	-434	P - U	954	-3209

Lumber

Top chord: 2x4 SPF #1/#2; T3,T6,
T8 2x6 SPF #1/#2; T4,T7 2x10 SP #1;
Bot chord: 2x4 SPF #1/#2; B2,B4,
B5 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W20 2x4 SP 2400f-2.0E;
W21 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 12-8-10 to 25-8-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

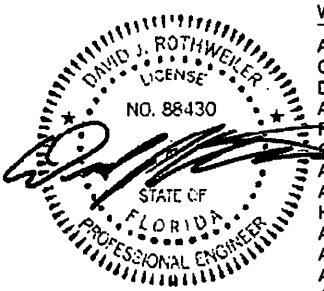
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



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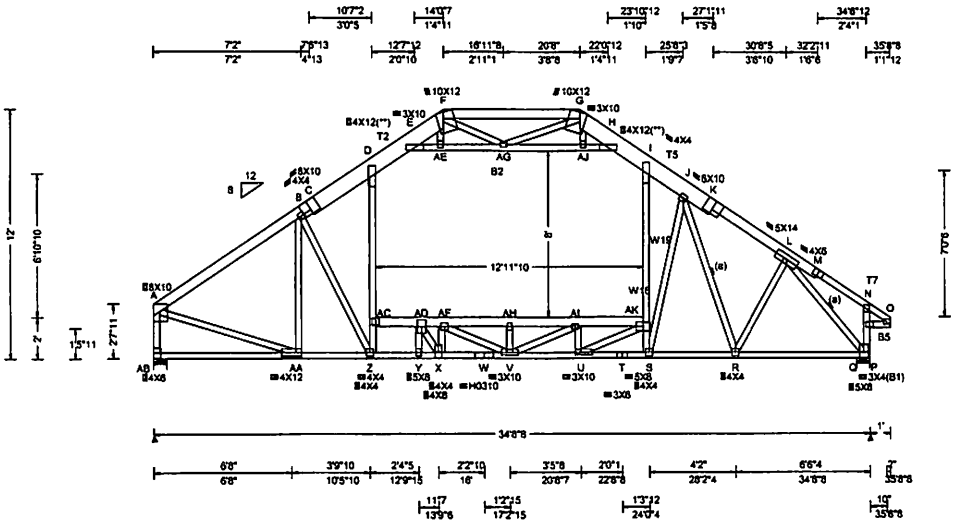
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118663 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A04	Cust: R 9419 JRef:1XUU94190007 T2 DrwNo: 321.23.0623.02540 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 18.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 48.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 27.65 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.57 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	AD	999	360
VERT(CL): 0.513	Y	805	240
HORZ(LL): 0.112	I	-	-
HORZ(TL): 0.215	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.835
Max BC CSI: 0.785
Max Web CSI: 0.711

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AB	2704 /-	/-	/1191	/912	/441
Q	2846 /-	/-	/1332	/966	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 2.2 (Truss)
Q Brg Wid = 7.6 Min Req = 2.4 (Truss)
Bearings AB & Q 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.
A - B	1013	-3047	G - H	598	-1086
B - C	1200	-3149	H - I	1090	-2407
C - D	1228	-3128	I - J	1296	-3164
D - E	1085	-2393	J - K	1101	-2642
E - F	602	-1102	K - L	1091	-2805
F - G	452	-699			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB-AA	453	-427	V - U	3609	-414
AA- Z	2440	-646	U - T	2347	-479
Z - Y	2427	-479	T - S	2347	-479
Y - X	2497	-476	S - R	2452	-581
X - W	3490	-419	R - Q	1892	-573
W - V	3490	-419			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A -AB	929	-2634	AG-AJ	731	-1969
A -AA	2519	-709	V -AI	499	-76
AA- B	255	-759	AH- V	6	-379
B - Z	554	-669	AH-AI	0	-1604
D -AC	1264	-369	AI- U	46	-512
Z -AC	814	-362	AI-AK	40	-1185
E -AE	718	-1885	G -AJ	520	-168
E -AD	41	-831	U -AK	1290	0
AD- X	1806	0	AJ- H	733	-1975
AD-AF	14	-928	AK- S	836	-616
X -AF	0	-1115	AK- I	1487	-600
AE- F	480	-165	S - J	741	-866
AE-AG	716	-1879	J - R	137	-689
AF- V	616	-31	R - L	832	-63
AF-AH	0	-1604	L - Q	966	-3148
AG- G	424	-411			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1;
T7 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E; B2,
B5 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W18,W19 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 10-9-2 to 23-8-12: 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.

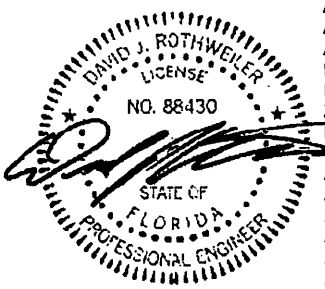
Wind

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

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

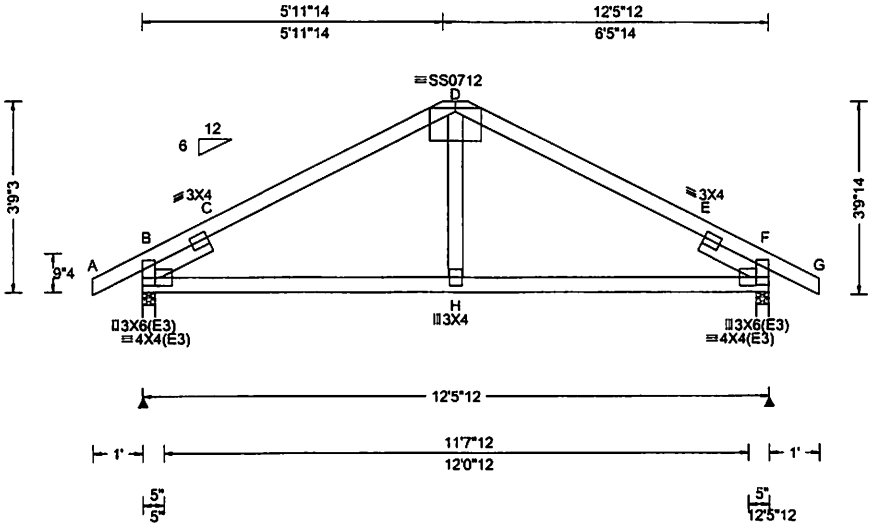


FL REQ# 278, David J. Rothweiler, FL PE# 88430
11/17/2023

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118880 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A05	Cust: R 9419 JRef:1XUU94190007 T36 DrwNo: 321.23.0623.04183 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 18.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 48.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 32.68 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.089	E	999	360
VERT(CL): 0.084	E	999	240
HORZ(LL): -0.056	C	-	-
HORZ(TL): 0.062	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.471
Max Web CSI: 0.224

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	710	/-	/-	/477	/454	/149
F	710	/-	/-	/477	/454	/-

Wind reactions based on MWFRS
B Brg Wid = 3.0 Min Req = 1.5 (Truss)
F Brg Wid = 3.0 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	739	-987	D - E	503	-783
C - D	503	-783	E - F	737	-985

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	637	-284	H - F	637	-284

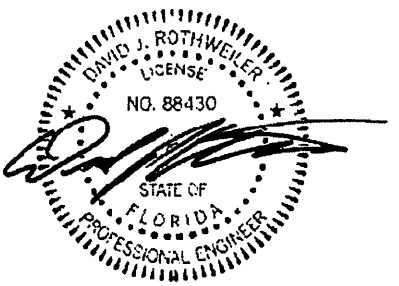
Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Wind

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

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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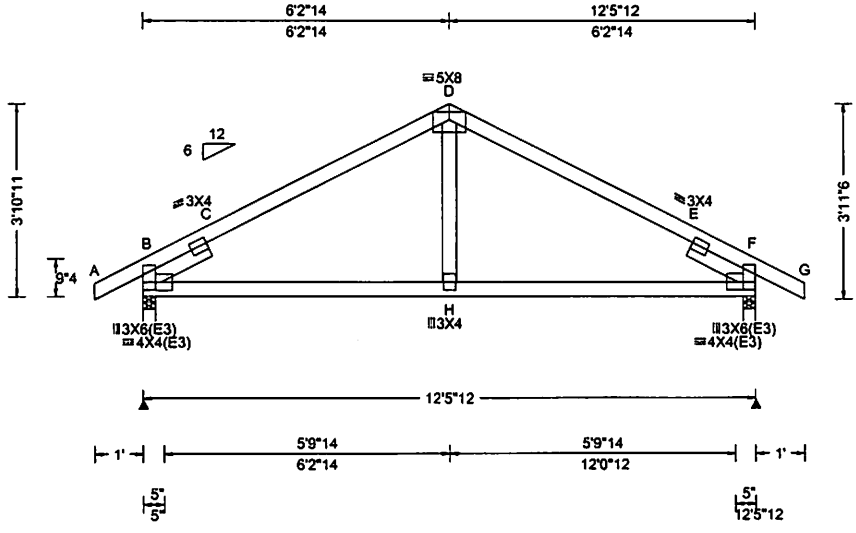
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118882 COMN FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A06	Cust: R 9419 JRef: 1XUU94190007 T25 DrwNo: 321.23.0623.05587 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration: 1.00	
Spacing: 24.0 "	

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 32.75 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.089	E	999	360
VERT(CL): 0.084	E	999	240
HORZ(LL): -0.056	C	-	-
HORZ(TL): 0.061	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.471
Max Web CSI: 0.228

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	710	/-	/-	/485	/467	/153
F	710	/-	/-	/485	/467	/-

Wind reactions based on MWFRS
B Brg Wid = 3.0 Min Req = 1.5 (Truss)
F Brg Wid = 3.0 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	757	-987	D - E	528	-783
C - D	528	-783	E - F	755	-985

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	637	-305	H - F	637	-305

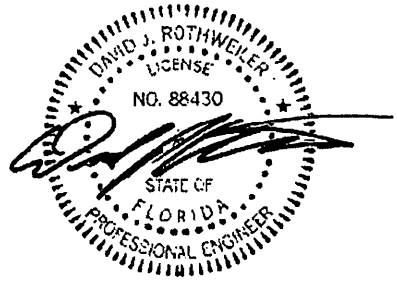
Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Wind

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

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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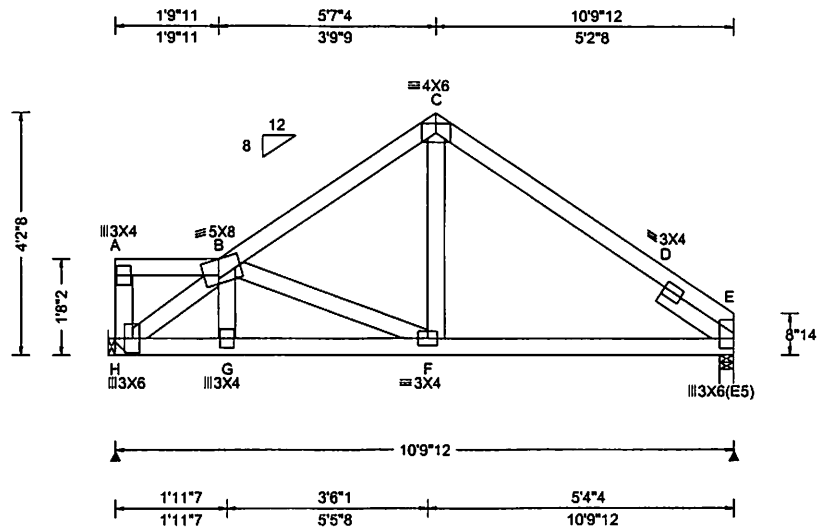
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118840 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A07	Cust: R 9419 JRef: 1XUU94190007 T13 DrwNo: 321.23.0623.07183 / FK 11/17/2023



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.082 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.075 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.060 D - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.065 D - -
NCBCLL: 10.00	Mean Height: 33.14 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.430
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.351
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.215
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/340	/358	/152
E	558	/-	/-	/373	/339	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	412	-610	D - E	893	-995
C - D	380	-603			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	624	-332	F - E	445	-170
G - F	626	-327			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	513	-779

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Hangers / Ties

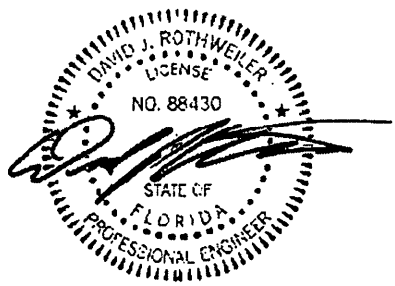
(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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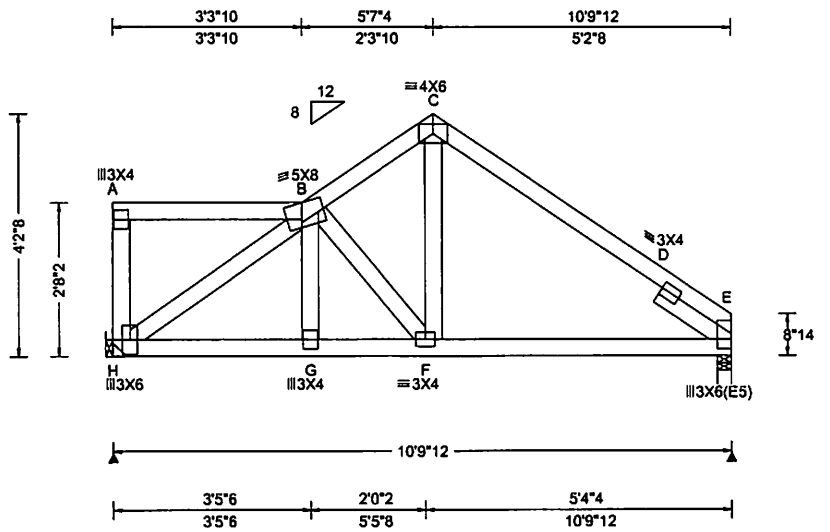
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118842 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A08	Cust: R 9419 JRef: 1XUU94190007 T14 DrwNo: 321.23.0623.08747 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 18.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 48.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.085	D	999	360
VERT(CL): 0.078	D	999	240
HORZ(LL): 0.063	D	-	-
HORZ(TL): 0.069	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.443
Max BC CSI: 0.331
Max Web CSI: 0.221

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/352	/376	/162
E	558	/-	/-	/383	/324	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	407	-556	D - E	881	-1044
C - D	354	-600			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	538	-201	F - E	441	-146
G - F	539	-199			

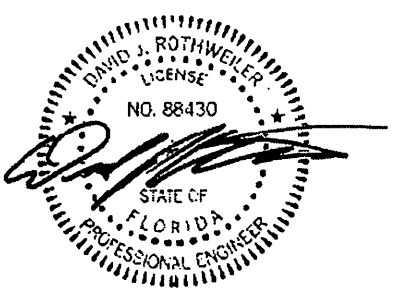
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	441	-653

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

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

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



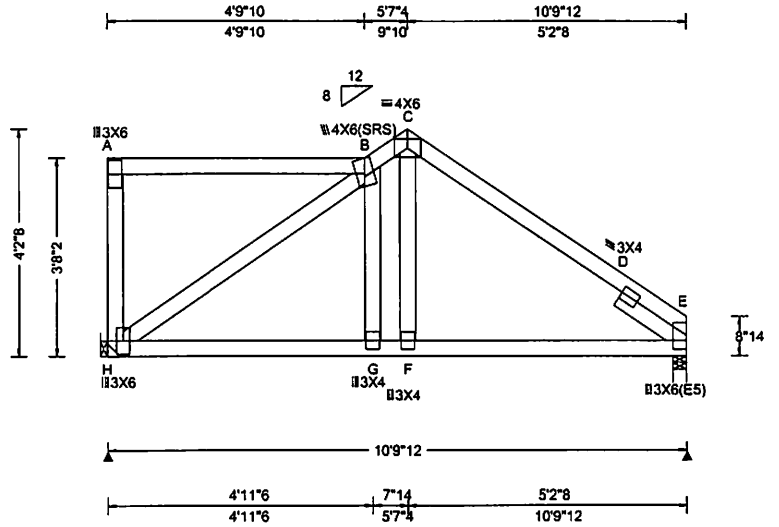
FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/17/2023

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118846 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A09	Cust: R 9419 JRef: 1XUU94190007 T9 DrwNo: 321.23.0623.10363 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.089 D	999	360
VERT(CL):	0.079 D	999	240
HORZ(LL):	0.067 D	-	-
HORZ(TL):	0.073 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.347
Max Web CSI: 0.316

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/361	/401	/245
E	558	/-	/-	/398	/302	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	320	-449	D - E	815	-1067
C - D	306	-611			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	450	-105	F - E	450	-106
G - F	449	-107			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	418	-533

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Hangers / Ties

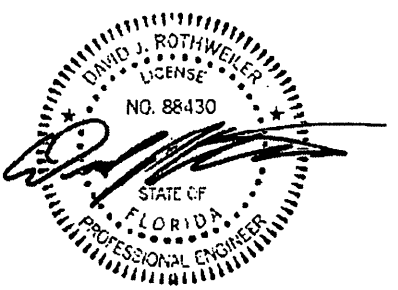
(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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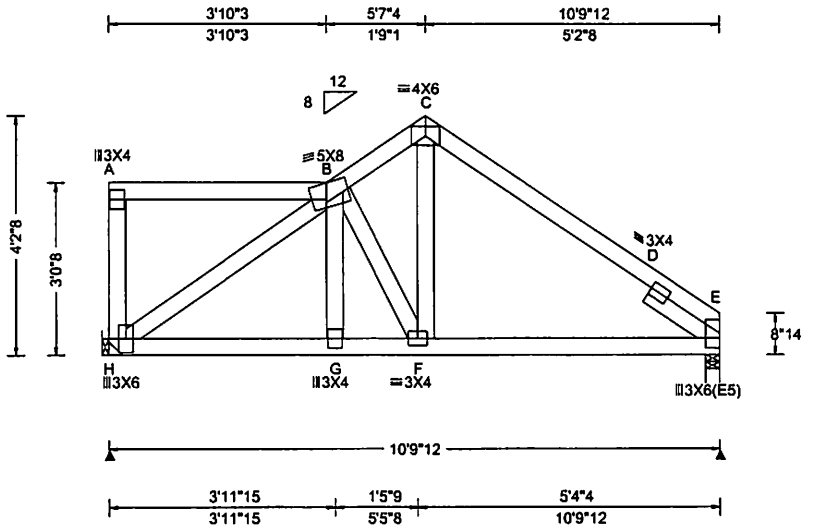
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118848 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A10	Cust: R 9419 JRef: 1XUU94190007 T37 DrwNo: 321.23.0623.11863 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.085 D	999	360
VERT(CL):	0.079 D	999	240
HORZ(LL):	0.064 D	-	-
HORZ(TL):	0.070 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.446
Max BC CSI: 0.332
Max Web CSI: 0.248

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/356	/384	/192
E	558	/-	/-	/387	/317	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	413	-551	D - E	869	-1059
C - D	343	-601			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	527	-178	F - E	441	-136
G - F	528	-175			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	447	-636

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Hangers / Ties

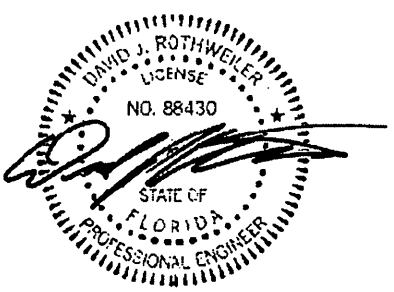
(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/17/2023

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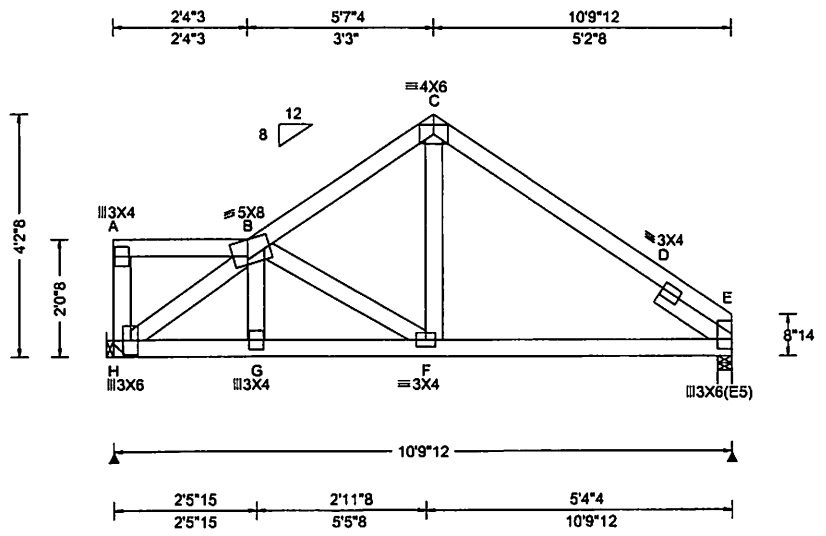
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118850 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T11
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.13320
		Truss Label: A11	/ FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.084 D	999	360
VERT(CL):	0.077 D	999	240
HORZ(LL):	0.062 D	-	-
HORZ(TL):	0.067 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.437
Max BC CSI: 0.329
Max Web CSI: 0.219

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/344	/364	/152
E	558	/-	/-	/376	/335	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	413	-592	D - E	893	-1019
C - D	371	-601			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	596	-284	F - E	442	-161
G - F	598	-280			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	484	-735

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Hangers / Ties

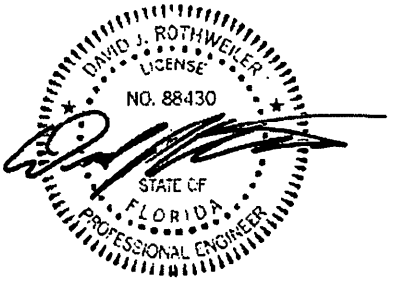
(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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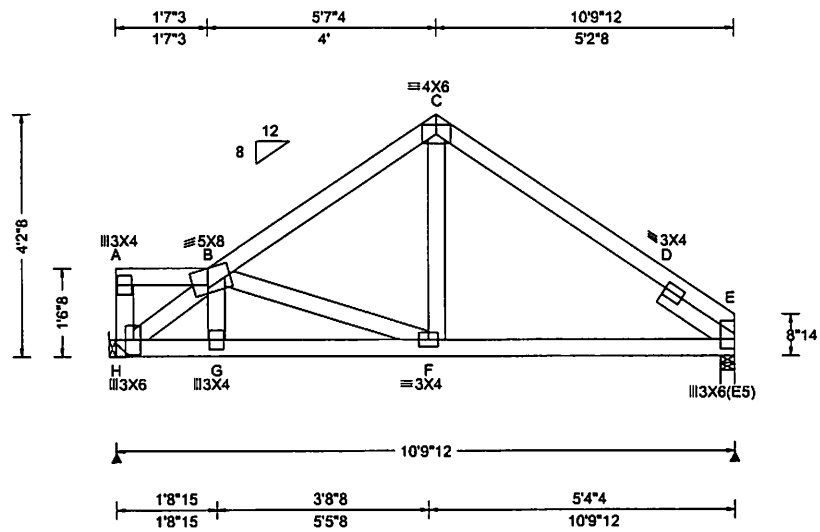
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118852 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A12	Cust: R 9419 JRef: 1XUU94190007 T20 DrwNo: 321.23.0623.14983 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.081 D	999	360
VERT(CL):	0.074 D	999	240
HORZ(LL):	0.059 D	-	-
HORZ(TL):	0.064 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.355
Max Web CSI: 0.214

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	558	/-	/-	/341	/356	/151
E	558	/-	/-	/372	/341	/-

Wind reactions based on MWFRS
H Brg Wid = - Min Req = -
E Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing E is 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	411	-617	D - E	892	-985
C - D	383	-604			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	635	-352	F - E	446	-173
G - F	637	-347			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - B	527	-798

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Hangers / Ties

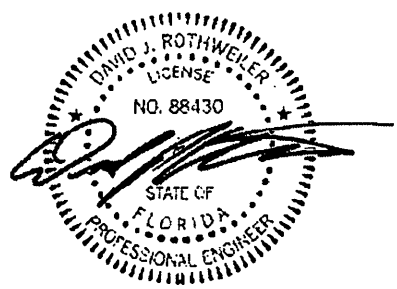
(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

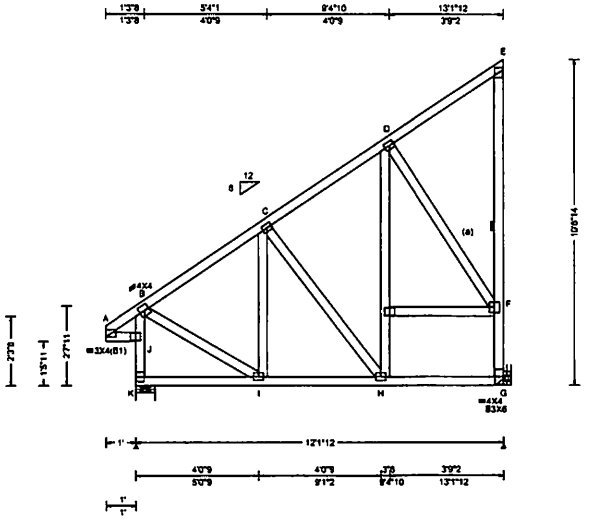


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118630 MONO FROM:	Ply: 1 Qty: 5	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A13	Cust: R 9419 JRef:1XUU94190007 T18 DrwNo: 321.23.0623.16957 / FK 11/17/2023



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.124 H 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.128 H 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.280 H - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.308 H - -
NCBCLL: 10.00	Mean Height: 27.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.239
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.256
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.763
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	744	/-	/-	/550	/65	/664
G	616	/-	/-	/610	/683	/-

Wind reactions based on MWFRS
K Brg Wid = 7.6 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearing K is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	29	-501

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - I	207	-680	I - H	382	-521

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - K	81	-716	C - H	452	-282
J - B	93	-706	D - F	557	-472
B - I	380	0	F - G	647	-544

Lumber

Top chord: 2x4 SPF 1650f-1.5E;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

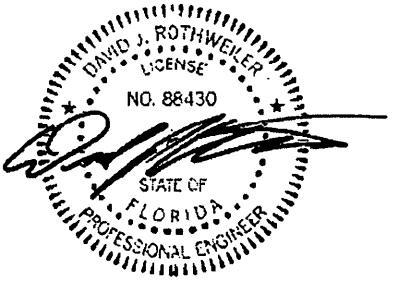
Wind

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

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

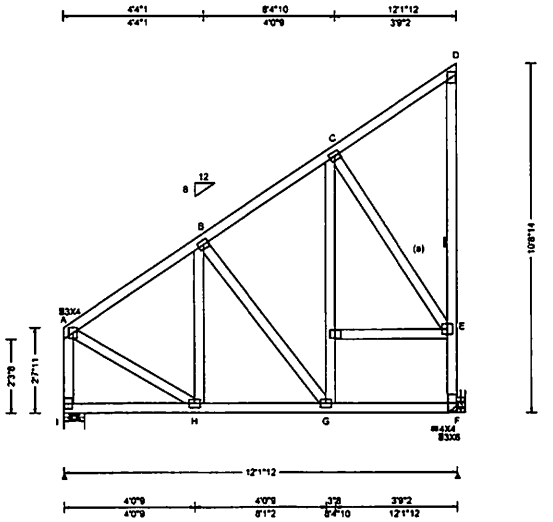


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118637 MONO	Ply: 1	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T8
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.18543
		Truss Label: A14	/ FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 27.36 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#	
VERT(LL):	-0.125	G	999	360
VERT(CL):	0.131	G	999	240
HORZ(LL):	-0.278	G	-	-
HORZ(TL):	0.305	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.247
Max BC CSI: 0.267
Max Web CSI: 0.787

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	627	/-	/-	/424	/26	/619
F	627	/-	/-	/618	/683	/-

Wind reactions based on MWFRS
I Brg Wid = 7.6 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	5	-524

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
I - H	190	-626	H - G	400	-521

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - I	41	-598	C - E	554	-479
A - H	415	0	E - F	648	-554
B - G	455	-306			

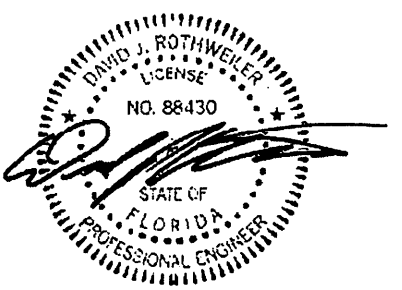
Lumber
Top chord: 2x4 SPF 1650f-1.5E;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

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

Plating Notes
All plates are 3X4 except as noted.

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

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



FL REQ# 278, David J. Rothweiler, FL PE# 88430
11/17/2023

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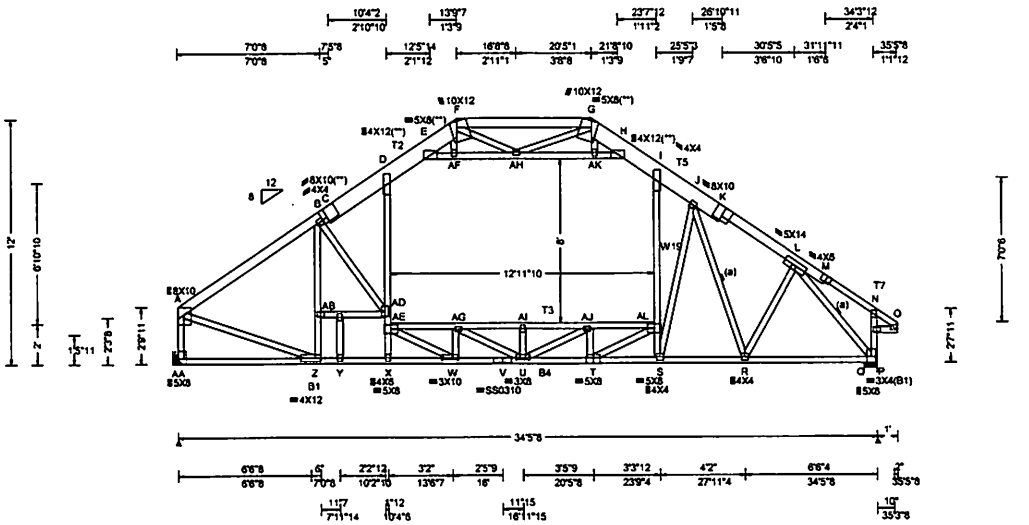
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118660 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A15	Cust: R 9419 JRef:1XUU94190007 T23 DrwNo: 321.23.0623.21720 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 27.65 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.55 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.136	AI	999	360
VERT(CL): 0.320	AG	999	240
HORZ(LL): 0.092	I	-	-
HORZ(TL): 0.181	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.565
Max BC CSI: 0.816
Max Web CSI: 0.845

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AA	2698 /-	/-	/1194	/693	/441
Q	2826 /-	/-	/1340	/746	/-

Wind reactions based on MWFRS
AA Brg Wid = - Min Req = -
Q Brg Wid = 7.6 Min Req = 4.4 (Truss)
Bearing Q is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	721	-2961	G - H	116	-1059
B - C	820	-3037	H - I	704	-2357
C - D	849	-3022	I - J	1022	-3139
D - E	734	-2367	J - K	852	-2621
E - F	75	-1050	K - L	841	-2785
F - G	4	-666			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	452	-422	V - U	3586	-350
Z - Y	2351	-390	U - T	3611	-189
Y - X	2351	-390	T - S	2329	-189
X - W	2347	-539	S - R	2424	-323
W - V	3586	-350	R - Q	1878	-405

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A -AA	707	-2635	AH-AK	873	-1813
A - Z	2470	-456	U -AJ	454	-133
Z -AB	208	-698	AI-AJ	118	-1668
AB- B	208	-715	AJ- T	65	-555
B -AD	518	-564	AJ-AL	10	-1181
D -AD	1116	-273	G -AK	484	-199
AD-AE	1032	-63	T -AL	1367	-39
AE- W	1345	-54	AK- H	876	-1819
AE-AG	292	-1308	AL- S	776	-598
E -AF	988	-1891	AL- I	1443	-598
W -AG	79	-574	S - J	668	-774
AF- F	482	-226	J - R	97	-614
AF-AH	985	-1886	R - L	788	-41
AG- U	492	-124	L - Q	691	-3124
AG-AI	118	-1668			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1; T3, T7 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1, B4 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W19 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 10-6-2 to 23-5-12: 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.

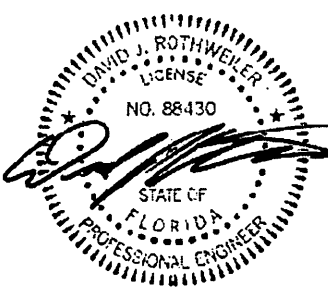
Wind

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

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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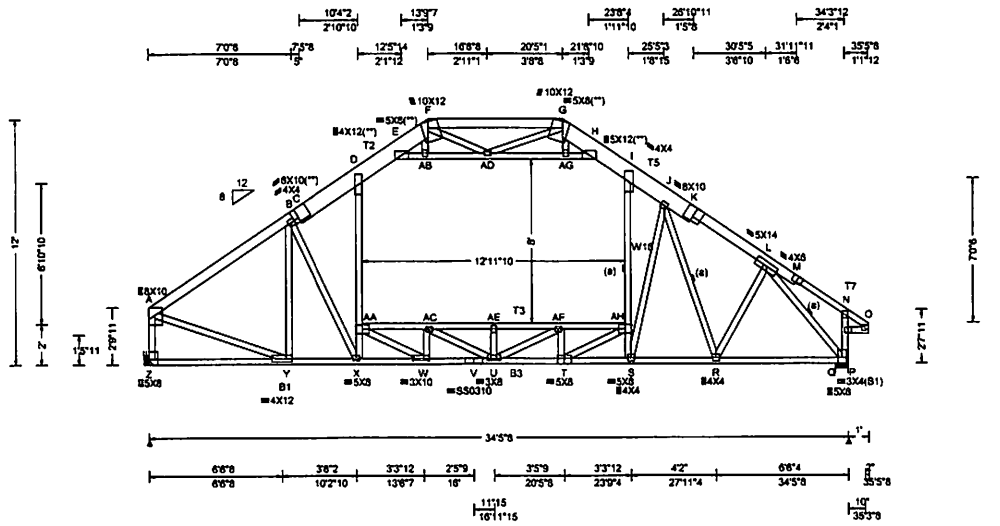
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118658 SPEC FROM:	Ply: 1 Qty: 5	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A16	Cust: R 9419 JRef:1XUU94190007 T38 DrwNo: 321.23.0623.24253 / FK 11/17/2023



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.139 X 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.327 AC 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.119 D - -
Des Ld:	48.00	EXP: D Kzt: NA		HORZ(TL): 0.197 D - -
NCBCLL:	10.00	Mean Height: 27.65 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.591
Load Duration:	1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.837
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.697
		C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Z	2698	/-	/-	/1194	/693	/441
Q	2826	/-	/-	/1340	/746	/-

Wind reactions based on MWFRS
Z Brg Wid = - Min Req = -
Q Brg Wid = 7.6 Min Req = 4.4 (Truss)
Bearing Q is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	726	-2962	G - H	113	-1074
B - C	897	-3046	H - I	733	-2347
C - D	925	-3031	I - J	1005	-3147
D - E	734	-2363	J - K	851	-2622
E - F	108	-1057	K - L	840	-2785
F - G	0	-682			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - Y	453	-423	U - T	3623	-138
Y - X	2370	-391	T - S	2325	-198
X - W	2327	-196	S - R	2423	-325
W - V	3625	-135	R - Q	1879	-405
V - U	3625	-135			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Z	709	-2635	AD-AG	923	-1855
A - Y	2473	-464	U -AF	430	-51
Y - B	196	-718	AE-AF	0	-1614
B - X	592	-644	AF- T	30	-545
D -AA	1169	-426	AF-AH	14	-1228
X -AA	560	-448	G -AG	494	-211
AA- W	1347	0	T -AH	1341	0
AA-AC	18	-1238	AG- H	926	-1861
E -AB	934	-1876	AH- S	868	-672
W -AC	33	-545	AH- I	1561	-646
AB- F	479	-213	S - J	773	-883
AB-AD	931	-1871	J - R	109	-611
AC- U	430	-52	R - L	786	-46
AC-AE	0	-1614	L - Q	690	-3124
AD- G	428	-433			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1; T3, T7 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1, B3 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W18 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 10-6-2 to 23-5-12: 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.

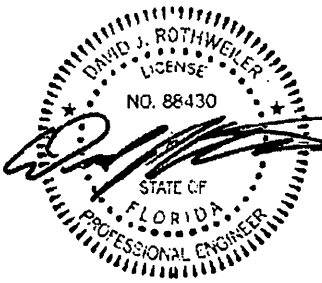
Wind

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

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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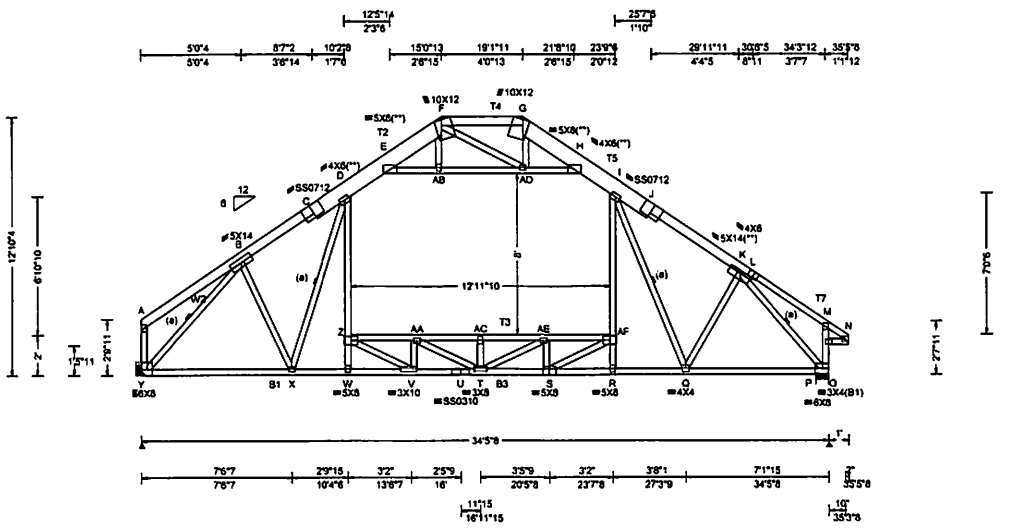
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118655 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A17	Cust: R 9419 JRef: 1XUU94190007 T35 DrwNo: 321.23.0623.26820 / FK 11/17/2023



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**			
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
TCDL:	18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.235 AF 999 360			
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.436 AF 939 240			
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.208 I - -			
Des Ld:	48.00	EXP: D Kzt: NA		HORZ(TL): 0.294 D - -			
NCBCLL:	10.00	Mean Height: 28.08 ft	Building Code:	Creep Factor: 2.0			
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.649			
Load Duration:	1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.877			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.768			
		C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)				
		Loc. from endwall: Any	Plate Type(s):				
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21			
		Wind Duration: 1.60					

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	2698	/-	/-	/1178	/920	/479
P	2827	/-	/-	/1324	/973	/-

Wind reactions based on MWFRS
Y Brg Wid = - Min Req = -
P Brg Wid = 7.6 Min Req = 4.4 (Truss)
Bearing P is 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	1168	-2969	G - H	335	-622
C - D	1180	-2804	H - I	1117	-2415
D - E	1115	-2428	I - J	1151	-2671
E - F	358	-673	J - K	1138	-2874

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	2165	-614	T - S	3641	-452
X - W	2385	-503	S - R	2383	-513
W - V	2373	-500	R - Q	2387	-507
V - U	3631	-437	Q - P	1983	-601
U - T	3631	-437			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Y - B	1026	-3277	T - AE	460	-118
B - X	558	-338	AC - AE	0	-1560
X - D	493	-449	G - AD	429	-224
D - Z	1007	-104	AD - H	1049	-2245
Z - V	1319	0	AE - S	66	-555
Z - AA	92	-1206	AE - AF	76	-1203
E - AB	1022	-2196	S - AF	1307	0
V - AA	72	-562	AF - I	1007	-70
AA - T	472	-124	I - Q	320	-529
AA - AC	0	-1560	Q - K	686	-229
AB - AD	1022	-2197	K - P	978	-3190
F - AD	377	-390			

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,T5 2x10 SP #1; T3,T7 2x4 SPF #1/#2; T4 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1, B3 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 10-6-2 to 23-5-12: 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.

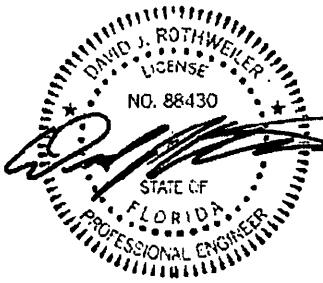
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Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

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Wind loading based on both gable and hip roof types.



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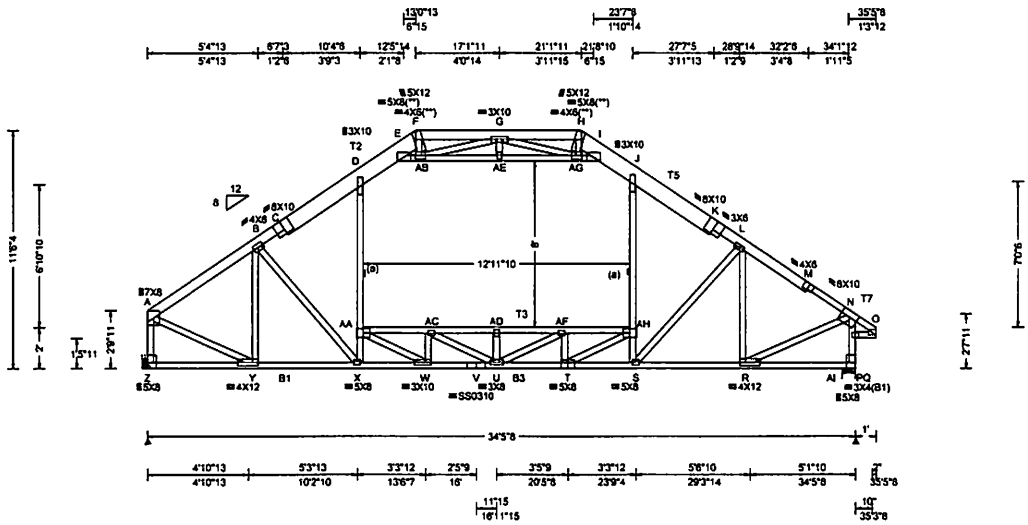
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118693 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A18	Cust: R 9419 JRef: 1XUU94190007 T33 DrwNo: 321.23.0623.29433 / FK 11/17/2023



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.144 X 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.326 AF 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.128 J - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.200 D - -
NCBCLL: 10.00	Mean Height: 27.41 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.527
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.807
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.682
	C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw / U	/ RL
Z	2710	/-	/-	/1181 /909	/419
Al	2815	/-	/-	/1318 /953	/-

Wind reactions based on MWFRS
Z Brg Wid = - Min Req = -
Al Brg Wid = 7.6 Min Req = 4.4 (Truss)
Bearing Al is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	922	-2741	H - I	497	-975
B - C	1101	-3049	I - J	1083	-2367
C - D	1132	-2992	J - K	1140	-2992
D - E	1088	-2394	K - L	1108	-3050
E - F	483	-960	L - M	959	-2657
F - G	554	-697	M - N	934	-2747
G - H	577	-706			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - Y	423	-401	V - U	3642	-418
Y - X	2228	-605	U - T	3645	-420
X - W	2355	-476	T - S	2358	-479
W - V	3642	-418	S - R	2246	-632

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Z	920	-2662	AD-AF	0	-1605
A - Y	2418	-717	G -AG	585	-926
Y - B	340	-927	AE-AG	428	-1367
B - X	431	-393	AF- T	31	-544
D -AA	879	-205	AF-AH	21	-1219
AA- W	1328	0	T -AH	1329	0
AA-AC	23	-1217	AG- H	1000	-402
E -AB	973	-2459	AG- I	937	-2346
F -AB	985	-400	AH- J	960	-206
AB- G	597	-900	S - L	419	-402
AB-AE	428	-1367	L - R	309	-913
W -AC	33	-546	R - N	2347	-626
AC- U	431	-53	N - P	980	-2759
AC-AD	0	-1605	P - Q	965	-2768
U -AF	429	-53			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1; T3, T7 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1, B3 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 10-6-2 to 23-5-12: 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.

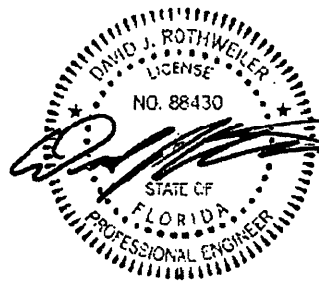
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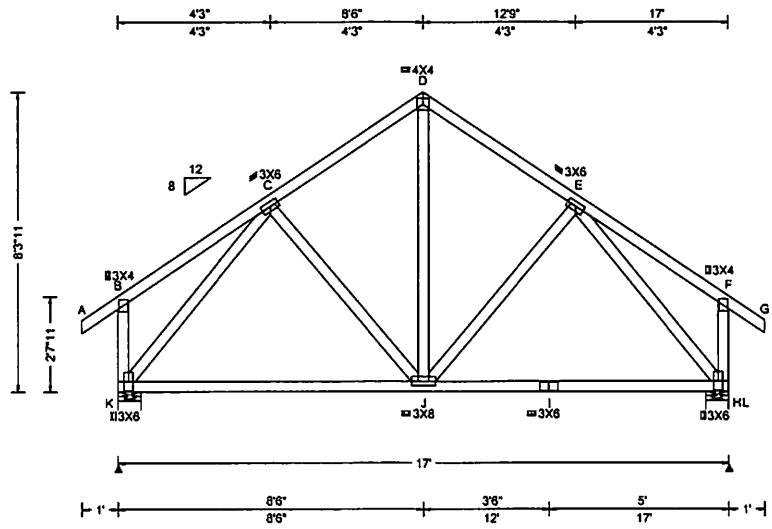


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118635 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** A19	Cust: R 9419 JRef: 1XUU94190007 T3 DrwNo: 321.23.0623.31180 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.013 J 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.027 J 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.009 C - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.016 F - -
NCBCLL: 10.00	Mean Height: 25.81 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.289
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.639
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.632
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	966	/-	/-	/656	/520	/300
L	966	/-	/-	/656	/520	/-

Wind reactions based on MWFRS
K Brg Wid = 7.6 Min Req = 1.5 (Truss)
L Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings K & 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.
C - D	539	-700	D - E	539	-700

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	575	-269	I - H	543	-248
J - I	543	-248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	386	-831	E - H	386	-831
D - J	381	-329			

Lumber

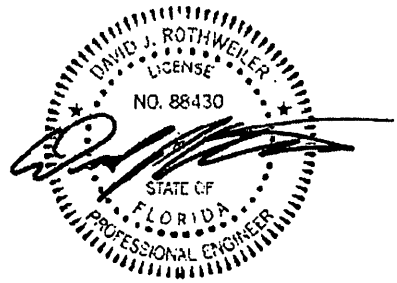
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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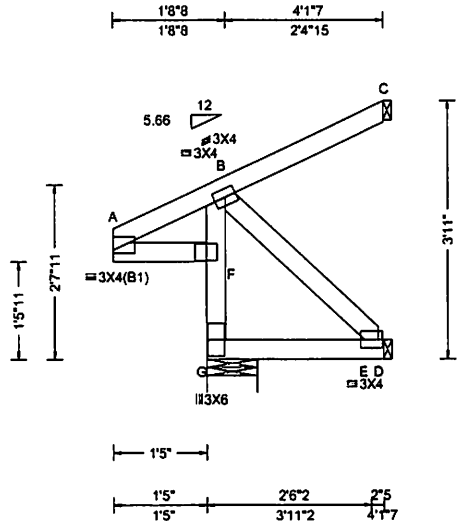
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118484 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** CJ01	Cust: R 9419 JRef: 1XUU94190007 T39 DrwNo: 321.23.0623.32520 / FK 11/17/2023



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.005 A 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.015 A 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 F - -
Des Ld:	48.00	EXP: D Kzt: NA		HORZ(TL): 0.006 F - -
NCBCLL:	10.00	Mean Height: 23.61 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.163
Load Duration:	1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.054
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.112
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	331	/-	/-	/-	/175	/-
D	30	/-1	/-	/14	/-	/-
C	79	/-	/-	/-	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 9.3 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing G is a rigid surface.
Members not listed have forces less than 375#

Lumber

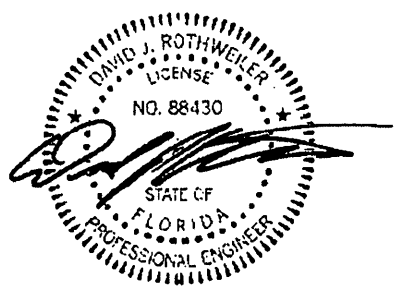
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



FL REQ# 278, David J. Rothweiler, FL PE# 88430

11/17/2023

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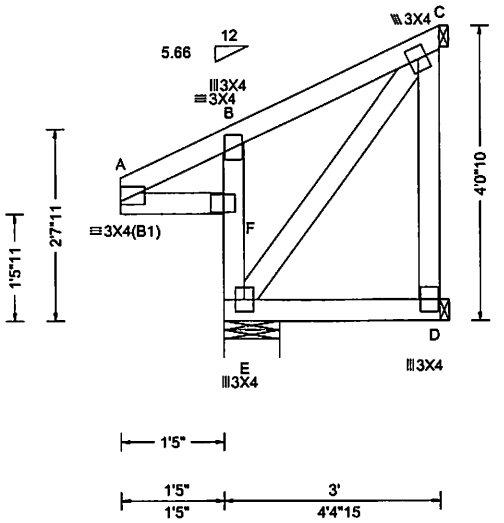
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118592 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** CJ02	Cust: R 9419 JRef:1XUU94190007 T30 DrwNo: 321.23.0623.34140 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 18.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 48.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.68 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.011	A	999	240
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.184
Max BC CSI: 0.062
Max Web CSI: 0.080

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	359	/-	/-	/308	/55	/143
D	55	/-	/-	/28	/-	/-
C	76	/0	/-	/51	/203	/-

Wind reactions based on MWFRS
E Brg Wid = 9.3 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 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

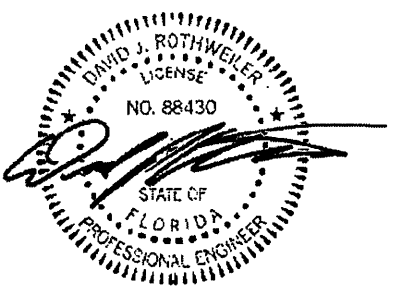
Wind

Wind loads based on MWFRS.

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

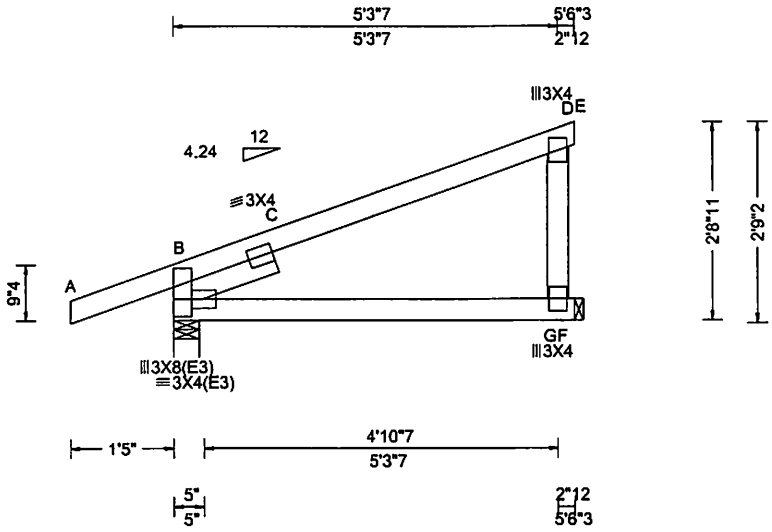


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118875 HIP_ FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** CJ03	Cust: R 9419 JRef: 1XUU94190007 T41 DrwNo: 321.23.0623.35847 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.030 C - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.032 C - -
NCBCLL: 10.00	Mean Height: 32.16 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.384
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.305
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.073
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	283	/-	/-	/-	/137	/-
F	208	/-	/-	/-	/75	/-

Wind reactions based on MWFRS
B Brg Wid = 4.2 Min Req = 1.5 (Truss)
F Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'

Special Loads

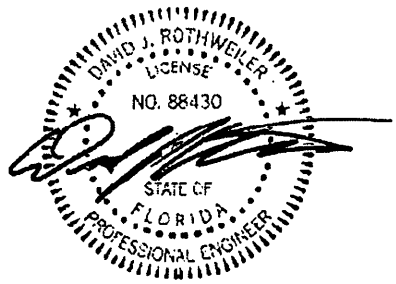
——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	0 plf at	-1.41 to	78 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	5.52
BC: From	0 plf at	-1.41 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	5.52

TC: 106 lb Conc. Load at 2.73
BC: 73 lb Conc. Load at 2.73

Wind

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

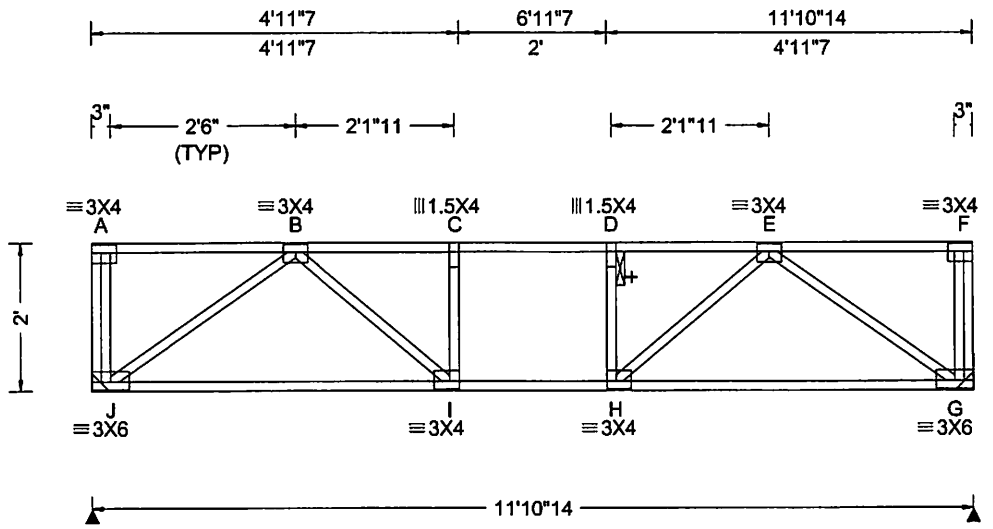


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118651 SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** F01	Cust: R 9419 JRef:1XUU94190007 T42 DrwNo: 321.23.0623.37867 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.024 D 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.082 D 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 B - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.023 B - -
NCBCLL: 10.00	Mean Height: 22.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.269
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.449
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.166
	C&C Dist a: 3.00 ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	571	/-	/-	/343	/309	/-
G	571	/-	/-	/343	/309	/-

Wind reactions based on MWFRS
J Brg Wid = - Min Req = -
G Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	434	-824	D - E	434	-824
C - D	438	-829			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	572	-330	H - G	572	-330
I - H	829	-438			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - B	414	-718	E - G	414	-718

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Hangers / Ties

(J) Hanger Support Required, by others

Wind

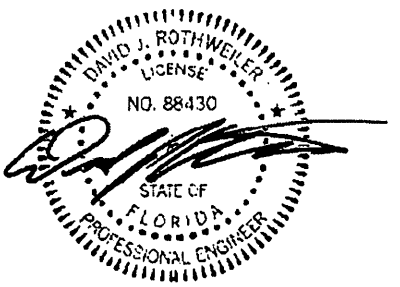
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

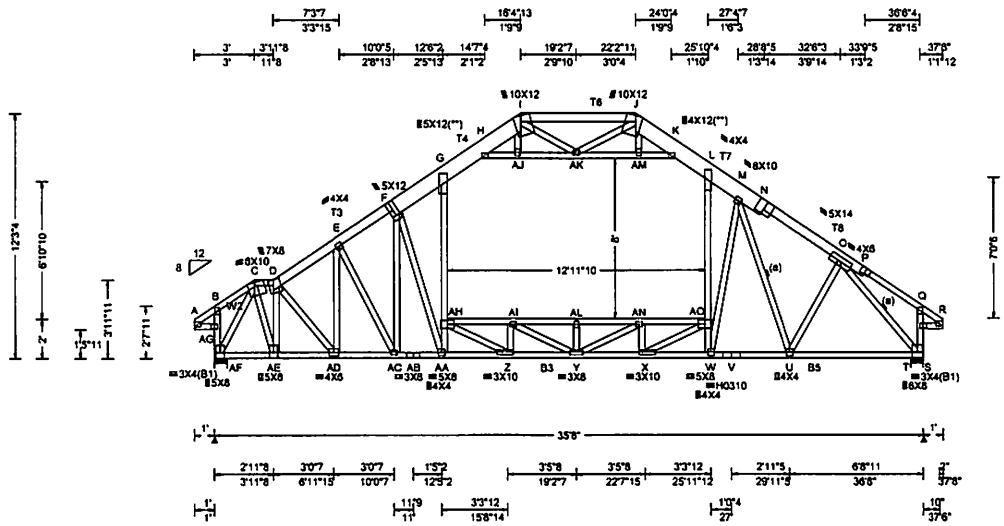


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118597 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** G01	Cust: R 9419 JRef:1XUU94190007 T43 DrwNo: 321.23.0623.41697 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 18.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 48.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 27.79 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.77 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.165	AI	999	640
VERT(CL): 0.431	AA	976	360
HORZ(LL): 0.098	G	-	-
HORZ(TL): 0.272	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.759
Max BC CSI: 0.787
Max Web CSI: 0.735

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AF	2961 /-	/-	/-	/1051	/-
T	2901 /-	/-	/-	/1013	/-

Wind reactions based on MWFRS
AF Brg Wid = 7.6 Min Req = 4.6 (Truss)
T Brg Wid = 7.6 Min Req = 4.6 (Truss)
Bearings AF & T 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.
C - D	637	-1901	I - J	390	-578
D - E	1007	-3024	J - K	520	-925
E - F	1030	-3219	K - L	866	-2494
F - G	1003	-3319	L - M	964	-3219
G - H	847	-2438	M - N	814	-2712
H - I	542	-980	N - O	940	-2888

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AF-AE	1243	-424	Z - Y	3778	-699
AE-AD	1901	-636	Y - X	3728	-680
AD-AC	2523	-820	X - W	2432	-746
AC-AB	2640	-825	W - V	2513	-780
AB-AA	2640	-825	V - U	2513	-780
AA- Z	2486	-764	U - T	1958	-658

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AF- C	1028	-2970	Y -AN	457	0
C -AE	2606	-838	AK- J	375	-104
D -AE	846	-2453	AK-AM	402	-2067
D -AD	938	-275	AL-AN	0	-1613
AD- E	226	-650	J -AM	429	-72
F -AA	211	-715	AM- K	402	-2068
G -AH	1578	-142	AN- X	0	-559
AA-AH	830	-173	AN-AO	0	-1206
AH- Z	1347	0	X -AO	1336	0
AH-AI	0	-1260	AO- W	778	-121
H -AJ	329	-1910	AO- L	1520	-90
Z -AI	0	-537	W - M	218	-582
AI- Y	415	0	M - U	182	-624
AI-AL	0	-1613	U - O	788	-147
AJ- L	396	-59	O - T	1092	-3227
AJ-AK	329	-1909			

Lumber

Top chord: 2x4 SPF #1/#2; T3,T8 2x6 SPF #1/#2;
T4,T7 2x10 SP #1; T6 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SPF #1/#2; B3,
B5 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 12-8-10 to 25-8-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

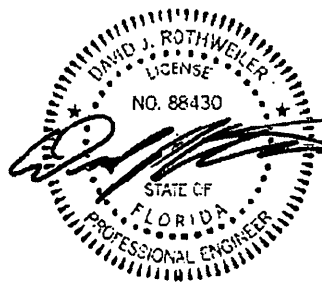
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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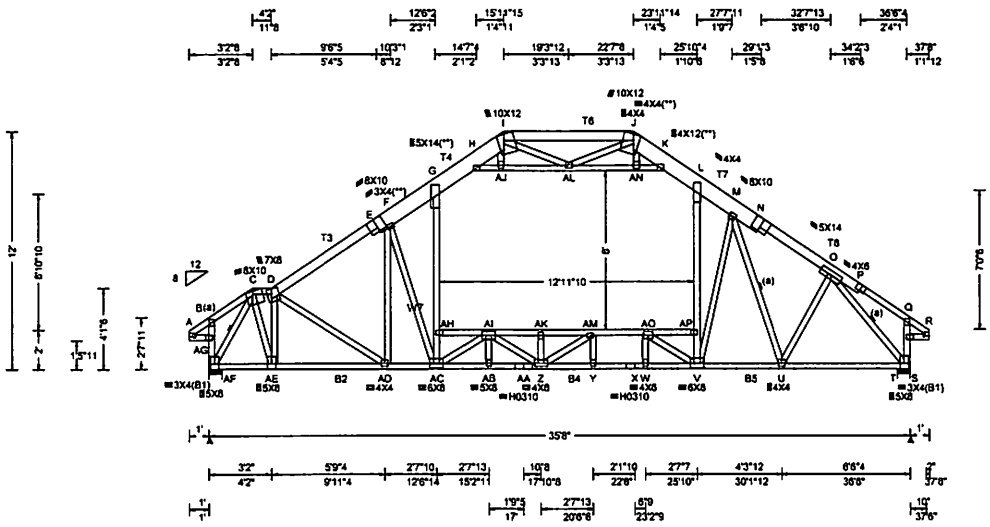
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

SEQN: 118674 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T26
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.44467
		Truss Label: G02	/ FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.194 AK 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.471 AB 894 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.100 G - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.275 G - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.771
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.750
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.778
	C&C Dist a: 3.77 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

Loc	Gravity R+	Gravity R-	Gravity Rh	Non-Gravity Rw	Non-Gravity U	Non-Gravity RL
AF	2979	/-	/-	/-	/1225	/-
T	2903	/-	/-	/-	/1050	/-

Wind reactions based on MWFRS
AF Brg Wid = 7.6 Min Req = 4.7 (Truss)
T Brg Wid = 7.6 Min Req = 2.4 (Truss)
Bearings AF & T 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.
C - D	770	-2020	I - J	436	-642
D - E	1152	-3313	J - K	566	-1015
E - F	978	-3076	K - L	907	-2511
F - G	1124	-3466	L - M	997	-3182
G - H	881	-2446	M - N	849	-2703
H - I	609	-1110	N - O	969	-2866

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AF-AE	1343	-512	Z - Y	3712	-711
AE-AD	2016	-767	Y - X	3688	-710
AD-AC	2725	-913	X - W	3688	-710
AC-AB	3461	-748	W - V	3659	-714
AB-AA	3461	-748	V - U	2506	-814
AA- Z	3461	-748	U - T	1930	-672

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AF- C	1150	-3004	Z -AM	433	-14
C -AE	2757	-1042	AK-AM	0	-1541
D -AE	901	-2498	AL- J	466	-83
D -AD	890	-238	AL-AN	414	-2131
AD- F	151	-405	AM-AO	0	-1230
F -AC	376	-994	J -AN	549	-96
C -AH	1835	-302	AN- K	415	-2137
AC-AI	0	-1172	AO- V	0	-1450
AH-AC	1729	-299	V - M	253	-479
H -AJ	293	-1913	AP- V	1362	-72
AI- Z	719	0	AP- L	1388	-75
AI-AK	0	-1541	M - U	212	-646
AJ- I	495	-67	U - O	828	-173
AJ-AL	292	-1908	O - T	1129	-3220

Lumber

Top chord: 2x4 SPF #1/#2; T3,T6,
T8 2x6 SPF #1/#2; T4,T7 2x10 SP #1;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 1650f-1.5E;
B4,B5 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W7 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 12-8-10 to 25-8-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

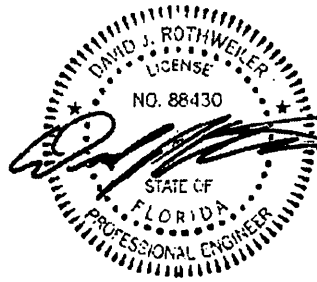
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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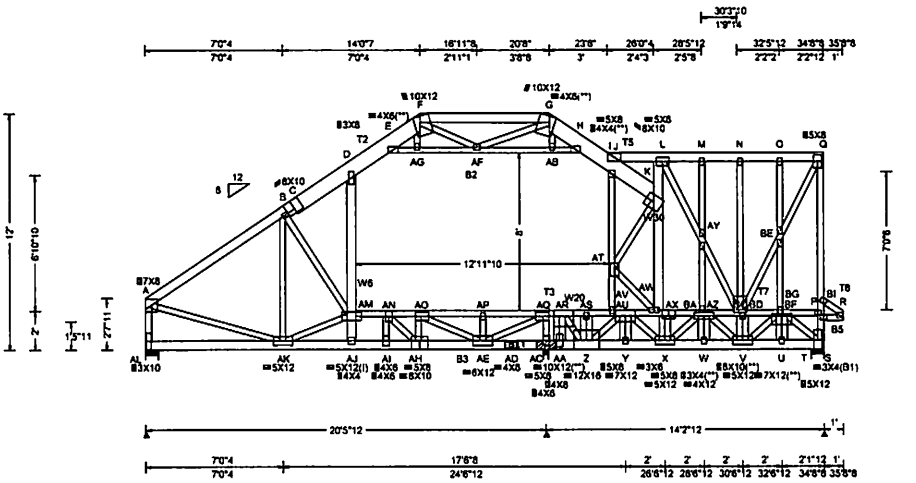
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120505 GABL FROM: Page 1 of 2	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** G03	Cust: R 9419 JRef:1XUU94190007 T10 DrwNo: 321.23.0623.48930 / FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.127 AI 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.179 AI 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.052 D - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.075 D - -
NCBCLL: 0.00	Mean Height: 27.65 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.737
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.572
Spacing: 16.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.878
	C&C Dist a: 3.57 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AL	3591	/-	/-	/1134	/2216	/597
AC	8724	/-	/-	/578	/5185	/-
T	6827	/-	/-	/908	/4068	/-

Wind reactions based on MWFRS
AL Brg Wid = 7.6 Min Req = 1.5 (Truss)
AC Brg Wid = 3.0 Min Req = -
T Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearings AL, AC, & T 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.
A - B	1299	-2081	H - I	779	-1364
B - C	1070	-1763	I - J	345	-633
C - D	1062	-1746	I - L	805	-1291
D - E	773	-1372	L - M	544	-885
E - F	383	-771	M - N	544	-885
F - G	338	-534	N - O	544	-885
G - H	368	-757	O - Q	544	-885

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AK-AJ	3231	-2345	AC-AA	1702	-2553
AJ-AI	3292	-2396	AB- H	607	-928
AI-AH	3190	-2323	AA- Z	1554	-2304
E -AG	654	-1040	Z - Y	2038	-1071
AH-AE	2261	-1684	Y - X	2038	-1071
AG-AF	652	-1037	X - W	2626	-1533
AF-AB	605	-925	W - V	2626	-1533
AE-AD	1613	-2404	V - U	1348	-801
AD-AC	1613	-2404	U - T	1348	-801

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A -AL	1102	-1774	AT- J	364	-728
A -AK	1711	-1073	AU-AV	1601	-1253
AK-AM	1427	-1721	AV- Y	622	-347
B -AM	449	-605	AV-AW	658	-1318
D -AM	653	-448	AV- X	678	-502
AM-AJ	728	-527	AW-AX	647	-1282
AM-AN	1612	-1978	L -BC	652	-1078
AI-AN	1141	-824	AX-AZ	647	-1282
AN-AH	763	-1131	AZ-BA	647	-1282
AN-AO	1044	-1146	BA-BC	427	-766

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1;
T3 2x4 SP 2400f-2.0E; T7,T8 2x4 SPF #1/#2;
Bot chord: 2x6 SP 2400f-2.0E; B2,
B5 2x4 SPF #1/#2; B3 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6,W30 2x6 SPF #1/#2;
W20 2x4 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 5.25" o.c.
Bot Chord: 1 Row @ 2.50" 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.=1.00 / Plate Dur.Fac.=1.00)

TC: From	56 plf at	0.00 to	56 plf at	35.71	
PLT: From	16 plf at	10.76 to	16 plf at	12.43	
PLT: From	13 plf at	12.43 to	13 plf at	22.28	
PLT: From	16 plf at	22.28 to	16 plf at	23.73	
PLT: From	67 plf at	10.76 to	67 plf at	23.73	
BC: From	13 plf at	0.00 to	13 plf at	35.71	
BC: From	233 plf at	21.17 to	233 plf at	34.71	
BC: From	167 plf at	21.17 to	167 plf at	34.71	

TC: 710 lb Conc. Load at 24.59,26.59,28.59
TC: 1184 lb Conc. Load at 30.59
TC: 202 lb Conc. Load at 32.59
TC: 283 lb Conc. Load at 34.60
BC: 92 lb Conc. Load at 10.76
BC: 3688 lb Conc. Load at 12.27
BC: 1844 lb Conc. Load at 23.02
BC: 94 lb Conc. Load at 23.73

Plating Notes

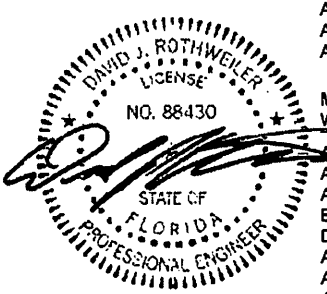
All plates are 3X4 except as noted.

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

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

Loading

Truss designed to support 1-3-0 top chord outlookers and cladding load not to exceed 3.00 PSF one face and 16.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.



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North Building, 4th Floor
Glenview, IL 60025

SEQN: 120505 GABL	Ply: 2	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T10
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.48930
Page 2 of 2		Truss Label: G03	/ FK 11/17/2023

Purlins

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

Wind

Wind loads based on MWFRS.

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Bearing Block(s)

Brg blocks:0.128"x3", min. nails

brg	x-loc	#blocks	length/blk	#nails/blk	wall plate
2	20.354'	1	12"	6	Rigid Surface

Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 2 located at 20.4' (blocking >= 3.50" if used)

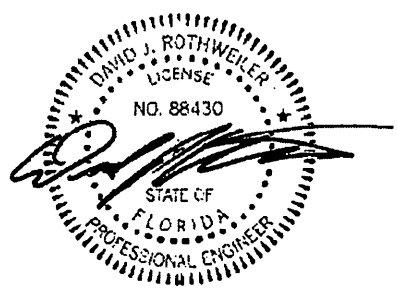
Additional Notes

See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

AH-AO	1178	-860	BA- V	421	-785
AO-AE	1984	-2763	N -BC	416	-629
AO-AP	1743	-1151	BC-BD	1240	-2072
AE-AQ	2128	-1612	BC- Q	1989	-1221
AP-AQ	1743	-1151	V -BG	861	-523
AQ-AC	1004	-1666	BD- V	400	-244
AQ-AR	3753	-2462	BD-BF	1240	-2072
AA-AR	1663	-2782	BF-BG	1240	-2072
AR- Z	4396	-2638	BG- U	375	-205
AR-AS	1594	-1250	BG- T	1131	-1904
Z -AV	1310	-2141	T - S	1177	-1958
AS- Z	242	-467	P -BI	1145	-1895
AS-AU	1594	-1250	P - Q	1128	-1866
AT-AU	290	-497	BI- S	1143	-1891

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
AY- M	262	-421	BE-BF	236	-431
AZ-AY	257	-412	O -BE	231	-423



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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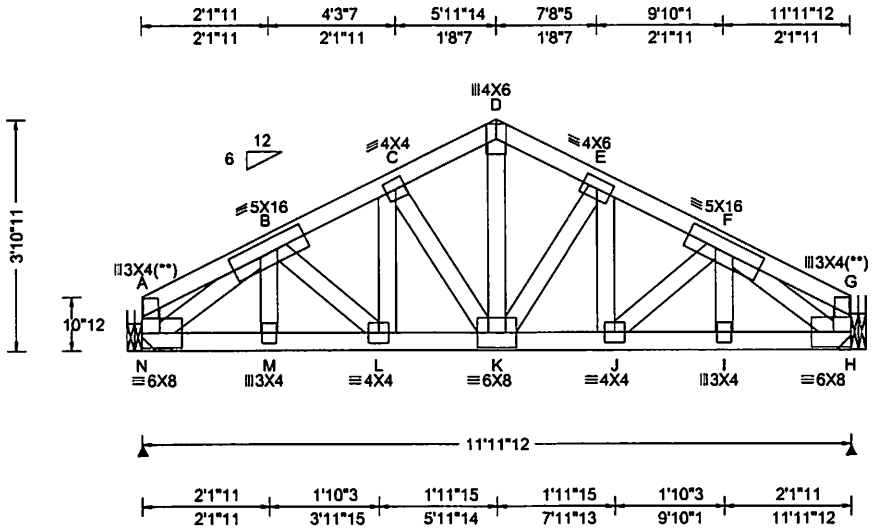
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118869 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** G04	Cust: R 9419 JRef: 1XUU94190007 T27 DrwNo: 321.23.0623.51050 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.06 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.049 K	999	360
VERT(CL):	0.075 K	999	240
HORZ(LL):	-0.020 H	-	-
HORZ(TL):	0.030 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.348
Max BC CSI: 0.557
Max Web CSI: 0.505

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
N	1844 /-	/-	/-	/1234	/-
H	2106 /-	/-	/-	/1402	/-

Wind reactions based on MWFRS
N Brg Wid = - Min Req = -
H Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1616	-2381	D - E	1346	-1975
C - D	1345	-1975	E - F	1662	-2454

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2136	-1435	K - J	2124	-1437
M - L	2159	-1449	J - I	2414	-1612
L - K	2067	-1400	I - H	2378	-1590

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	1777	-2645	K - E	436	-657
B - M	578	-351	E - J	698	-443
L - C	583	-371	I - F	901	-558
C - K	370	-553	F - H	1967	-2941
D - K	1640	-1100			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 40 plf at 0.00 to 40 plf at 11.98
BC: From 10 plf at 0.00 to 10 plf at 11.98
BC: 558 lb Conc. Load at 1.62, 3.62, 5.62, 7.62 9.62,10.62

Plating Notes

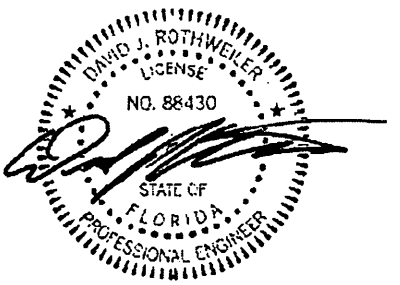
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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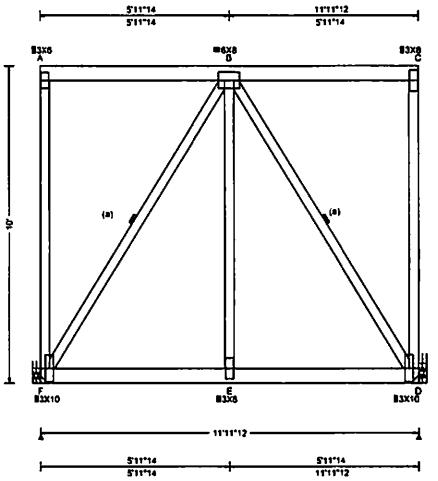
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118860 FLAT	Ply: 2	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T6
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.52510
		Truss Label: G05	/ FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.046 E 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.054 E 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005 D - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.007 D - -
NCBCLL: 0.00	Mean Height: 30.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.437
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.433
Spacing: 16.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.827
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity				Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	3688	/-	/-	/-	/2994	/-
D	4340	/-	/-	/-	/3589	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
D Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
F - E	787	-635	E - D	787	-635

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - B	1193	-1480	B - D	1193	-1480
B - E	1233	-1223	C - D	274	-418

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 4.00" o.c.
Bot Chord: 1 Row @ 3.75" 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.=1.00 / Plate Dur.Fac.=1.00)
TC: From 51 plf at 0.00 to 51 plf at 11.98
BC: From 13 plf at 0.00 to 13 plf at 11.98
TC: 558 lb Conc. Load at 1.62, 3.62, 5.62, 7.62 9.62,10.62
BC: 657 lb Conc. Load at 1.62, 3.62, 5.62, 7.62 9.62
BC: 627 lb Conc. Load at 11.62

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

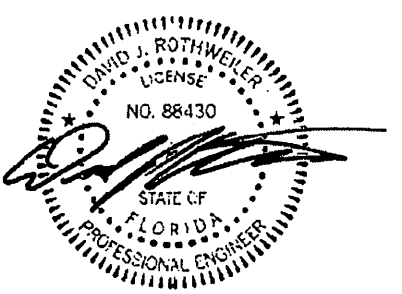
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

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.



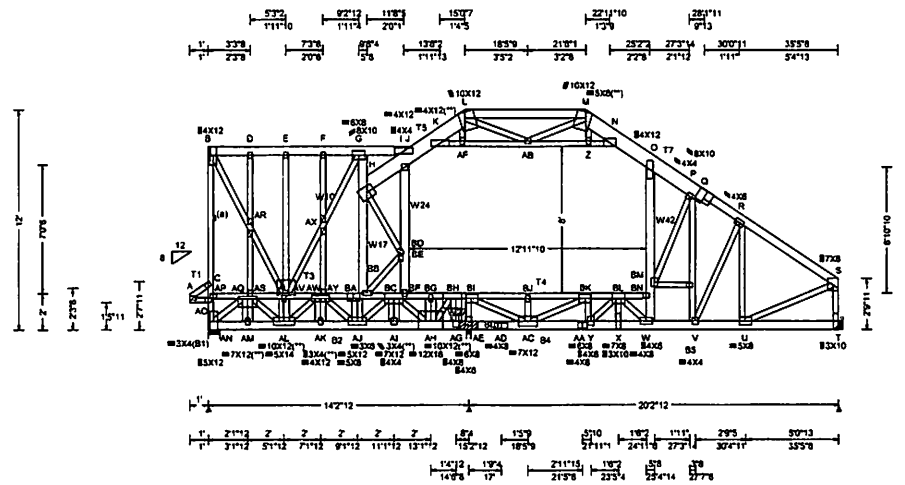
11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120508 GABL FROM: Page 1 of 2	Ply: 2 Qty: 1	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D Truss Label: G06		Cust: R 9419 JRef: 1XUU94190007 T40 DrwNo: 321.23.0623.59377 / FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.169 W 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.230 W 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.091 O - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.110 O - -
NCBCLL: 0.00	Mean Height: 27.65 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.828
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.541
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.814
	C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AN	8004	/-	/-	/1048	/4085	/617
AE	9320	/-	/-	/756	/4546	/-
T	4374	/-	/-	/1276	/2864	/-

Wind reactions based on MWFRS
AN Brg Wid = 7.6 Min Req = 3.3 (Truss)
AE Brg Wid = 3.0 Min Req = -
T Brg Wid = - Min Req = -
Bearings AN & AE 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 - D	614	-1098	K - L	390	-817
D - E	614	-1098	L - M	353	-530
E - F	614	-1098	M - N	459	-887
F - G	614	-1098	N - O	1134	-1800
G - J	1112	-1821	O - P	1777	-2597
H - I	300	-412	P - Q	1621	-2395
I - J	489	-801	Q - R	1658	-2466
J - K	1178	-1836	R - S	1497	-2263

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AN-AM	1481	-718	AE-AD	1533	-2450
AM-AL	1481	-718	AD-AC	1533	-2450
AL-AK	2758	-1242	AB- Z	959	-1534
AK-AJ	2758	-1242	AC-AA	2146	-1586
AJ-AI	1877	-505	AA- Y	2146	-1586
AI-AH	1877	-505	Z - N	962	-1539
AH-AG	1499	-2362	Y - X	3229	-2417
K -AF	1127	-1599	X - W	3229	-2417
AG-AE	1619	-2612	W - V	2082	-1411
AF-AB	1124	-1594	V - U	1841	-1224

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	1257	-2297	I -BD	371	-751
B -AV	2466	-1377	BF-BG	2264	-1831
C -AP	1270	-2338	AH-BH	4358	-2071
AO-AN	1289	-2405	BG-BH	2264	-1831
AP-AO	1264	-2333	BH-AG	1339	-2790
AN-AQ	1024	-2110	BH-BI	4503	-2845
AQ-AR	1024	-2110	BI-L	395	-258
AQ-AS	1157	-2321	AE-BI	963	-1811

Lumber

Top chord: 2x6 SPF #1/#2; T1,T3 2x4 SPF #1/#2;
T4 2x4 SP 2400f-2.0E; T5,T7 2x10 SP #1;
Bot chord: 2x4 SPF #1/#2; B2,
B5 2x6 SP 2400f-2.0E; B4 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W10,W27 2x4 SPF 1650f-1.5E;
W17,W24,W42 2x6 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 4.50" o.c.
Bot Chord: 1 Row @ 2.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

All plates are 3X4 except as noted.

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Truss designed to support 1-3-0 top chord outlookers and cladding load not to exceed 3.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Purlins

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

Wind

Wind loads based on MWFRS.

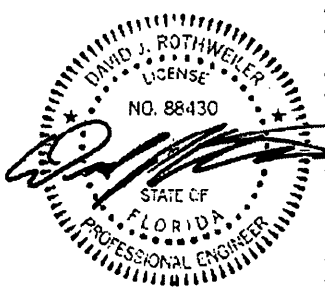
Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120508 GABL	Ply: 2	Job Number: KTQ23455-BLDG-EMERALD-R-Rev-2	Cust: R 9419 JRef: 1XUU94190007 T40
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D	DrwNo: 321.23.0623.59377
Page 2 of 2		Truss Label: G06	/ FK 11/17/2023

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	43 plf at	0.00 to	43 plf at	1.00	
TC: From	40 plf at	0.00 to	40 plf at	35.46	
TC: From	43 plf at	1.00 to	43 plf at	35.46	
PLT: From	24 plf at	11.98 to	24 plf at	13.43	
PLT: From	20 plf at	13.43 to	20 plf at	23.28	
PLT: From	24 plf at	23.28 to	24 plf at	24.95	
PLT: From	100 plf at	11.98 to	100 plf at	24.95	
PLT: From	20 plf at	1.75 to	20 plf at	1.29	
BC: From	20 plf at	0.00 to	20 plf at	35.46	
BC: From	233 plf at	1.00 to	233 plf at	15.35	
BC: From	167 plf at	1.00 to	167 plf at	15.35	

TC: 283 lb Conc. Load at 1.11
TC: 202 lb Conc. Load at 3.11
TC: 1184 lb Conc. Load at 5.11
TC: 710 lb Conc. Load at 7.11, 9.11,11.11
BC: 141 lb Conc. Load at 11.98
BC: 2106 lb Conc. Load at 12.69
BC: 4340 lb Conc. Load at 23.44
BC: 138 lb Conc. Load at 24.95

Bearing Block(s)

Brg blocks:0.128"x3", min. nails

brg	x-loc	#blocks	length/blk	#nails/blk	wall plate
2	15.104'	1	12"	12	Rigid Surface

Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

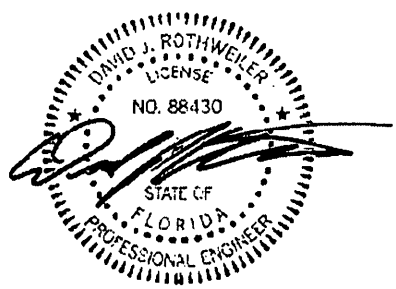
Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 2 located at 15.1' (blocking >= 3.50" if used)

AQ-AL	994	-518	BI-AC	2322	-1576
AS-AU	1157	-2321	BI-BJ	2287	-1465
AL-AW	157	-652	AC-BK	1924	-2856
AU-AL	327	-402	BJ-BK	2287	-1465
AU-AV	1157	-2321	BK- Y	1176	-878
E -AV	407	-635	BK-BL	520	-461
AV-AW	199	-506	M - Z	379	-219
AV- G	1076	-1580	Y -BL	1005	-1342
AW-AY	422	-802	BL- X	2031	-1671
AW-AJ	428	-481	BL- W	1236	-1442
AY-BA	422	-802	BL-BN	350	-450
AJ-BC	878	-682	W -BN	1036	-746
BA-BB	422	-802	BM-BN	1090	-763
G - H	855	-673	BM- O	1501	-1154
H -BD	564	-413	BM- P	438	-575
BB-BC	650	-856	V - R	584	-421
BB-BE	342	-470	R - U	588	-839
BC-AI	669	-294	U - S	1984	-1319
BC-BF	2280	-1837	S - T	1430	-2169
BC-AH	955	-2039			

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
AR- D	248	-441	AX-AY	261	-411
AS-AR	255	-450	F -AX	266	-421



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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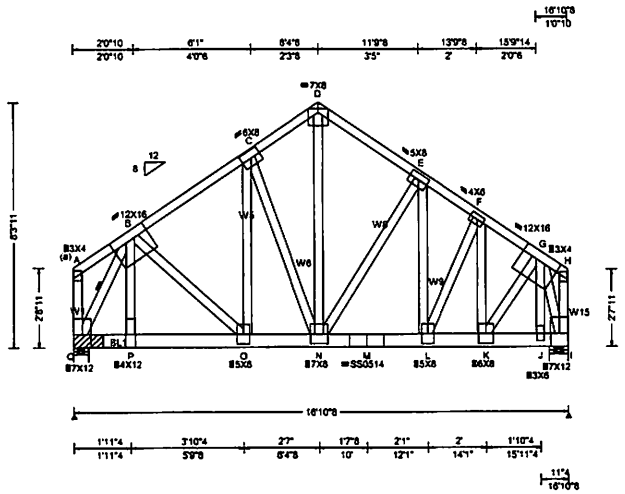
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120510 COMN FROM:	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** G07	Cust: R 9419 JRef:1XUU94190007 T45 DrwNo: 321.23.0624.01860 / FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.060 O 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.144 O 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.030 B - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.071 B - -
NCBCLL: 0.00	Mean Height: 26.14 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.557
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.754
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.699
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
Q	15205	/-	/-	/-	/5952 /-
I	12337	/-	/-	/-	/3899 /-

Wind reactions based on MWFRS
Q Brg Wid = 6.1 Min Req = -
I Brg Wid = 7.6 Min Req = 5.1 (Truss)
Bearings Q & 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.
B - C	1426	-4741	E - F	1446	-4796
C - D	1225	-4095	F - G	1330	-4275
D - E	1235	-4113			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	3134	-988	M - L	3927	-1179
P - O	3193	-1008	L - K	3608	-1110
O - N	3855	-1144	K - J	1777	-561
N - M	3927	-1179	J - I	1753	-553

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - B	2122	-6738	E - L	1133	-316
B - P	2615	-875	L - F	931	-207
B - O	958	-201	F - K	321	-1251
O - C	1448	-377	K - G	3116	-940
C - N	396	-1291	J - G	817	-275
D - N	4348	-1237	G - I	1880	-5965
N - E	327	-988			

Lumber

Top chord: 2x4 SPF 1650f-1.5E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP 2400f-2.0E; W1,W5,W6,W8,W9, W15 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 2.00" o.c. (Each Row)
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.=1.00 / Plate Dur.Fac.=1.00)
TC: From 83 plf at 0.00 to 83 plf at 16.88
BC: From 10 plf at 0.00 to 10 plf at 16.88
BC: 4374 lb Conc. Load at 0.42
BC: 2698 lb Conc. Load at 1.94, 3.94, 5.94, 7.94 9.94,11.94,13.94
BC: 2710 lb Conc. Load at 15.94

Wind

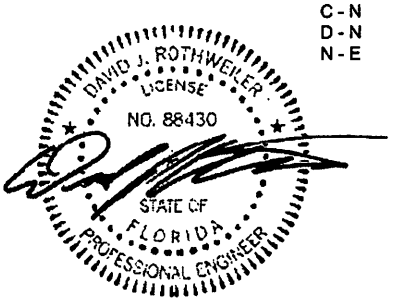
Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Bearing Block(s)

Brg blocks:0.128"x3", min. nails

brg	x-loc	#blocks	length/blk	#nails/blk	wall plate
1	0.000'	1	12"	5	Rigid Surface

Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

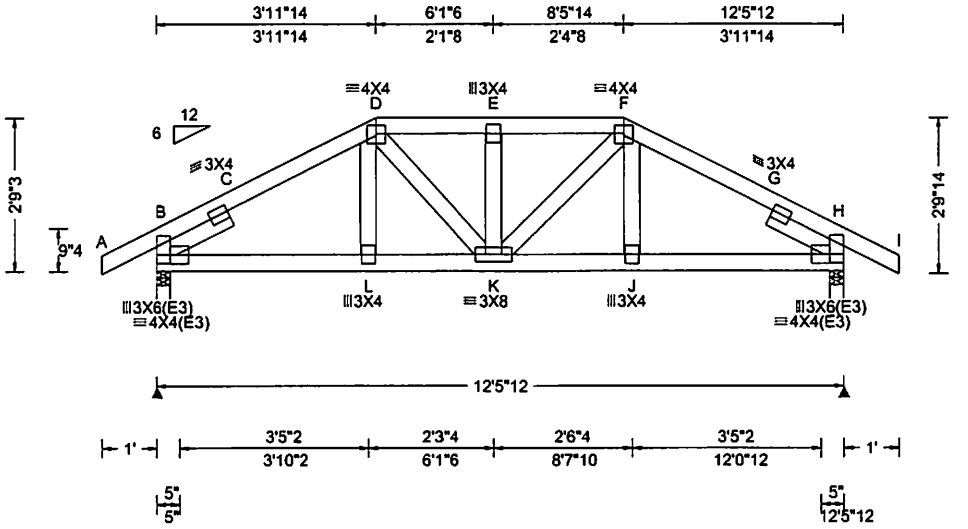


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118878 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** G09	Cust: R 9419 JRef:1XUU94190007 T31 DrwNo: 321.23.0624.03783 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 32.18 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.046	E	999	360
VERT(CL): 0.071	E	999	240
HORZ(LL): -0.019	H	-	-
HORZ(TL): 0.029	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.286
Max BC CSI: 0.534
Max Web CSI: 0.240

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	1184 /-	/-	/-	/845	/-
H	1184 /-	/-	/-	/845	/-

Wind reactions based on MWFRS
B Brg Wid = 3.0 Min Req = 1.9 (Truss)
H Brg Wid = 3.0 Min Req = 1.9 (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	1259	-1755	E - F	1220	-1662
C - D	1209	-1699	F - G	1214	-1705
D - E	1220	-1662	G - H	1264	-1761

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1446	-1023	K - J	1425	-1014
L - K	1422	-1012	J - H	1450	-1027

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
F - J	384	-192

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'
Rt Slider: 2x4 SPF #1/#2; block length = 1.500'

Special Loads

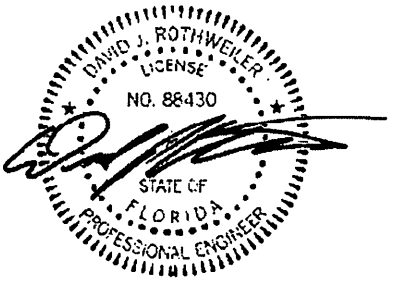
——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	80 plf at	-1.00 to	80 plf at	3.99
TC: From	40 plf at	3.99 to	40 plf at	8.49
TC: From	80 plf at	8.49 to	80 plf at	13.48
BC: From	4 plf at	-1.00 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	4.00
BC: From	10 plf at	4.00 to	10 plf at	8.48
BC: From	20 plf at	8.48 to	20 plf at	12.48
BC: From	4 plf at	12.48 to	4 plf at	13.48

BC: 397 lb Conc. Load at 4.00, 8.48
BC: 189 lb Conc. Load at 6.05, 6.43

Wind

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



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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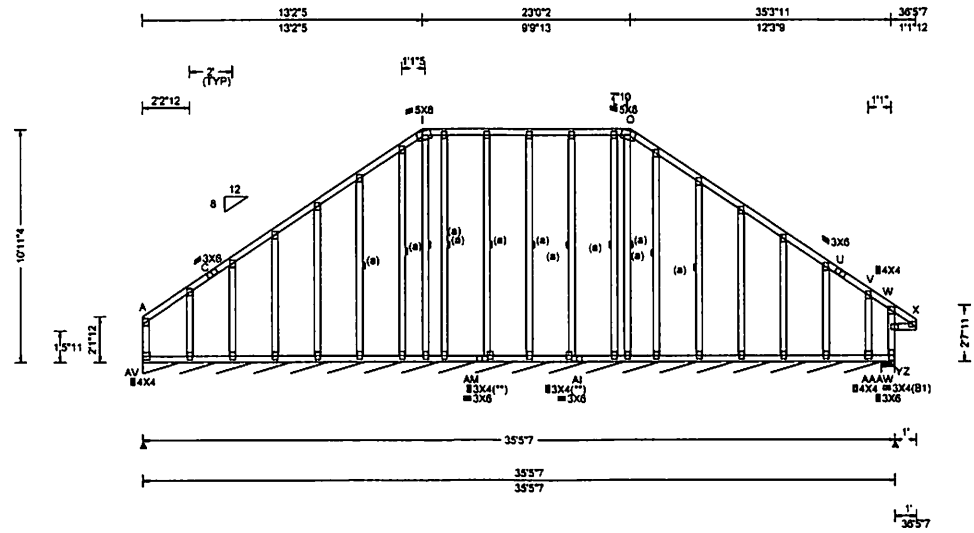
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118463 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** GE01	Cust: R 9419 JRef: 1XUU94190007 T19 DrwNo: 321.23.0624.06067 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.064 X 213 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.113 X 121 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.209 W - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.280 W - -
NCBCLL: 10.00	Mean Height: 27.12 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.657
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.161
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.542
	C&C Dist a: 3.65 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AV*	103	/-	/-	/87	/52	/11
AW	208	/-	/-	/972	/781	/-

Wind reactions based on MWFRS
AV Brg Wid = 417 Min Req = -
AW Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings AV & AW 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.
C - I	699	-128	V - W	666	-681
I - O	600	-107	W - X	406	-329
O - U	697	-287			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
Y - X	464	-490

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - Y	791	-940	Y - Z	727	-907

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
AA- V	786	-763

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 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.

Wind

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

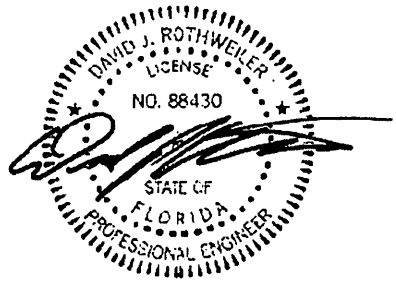
Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

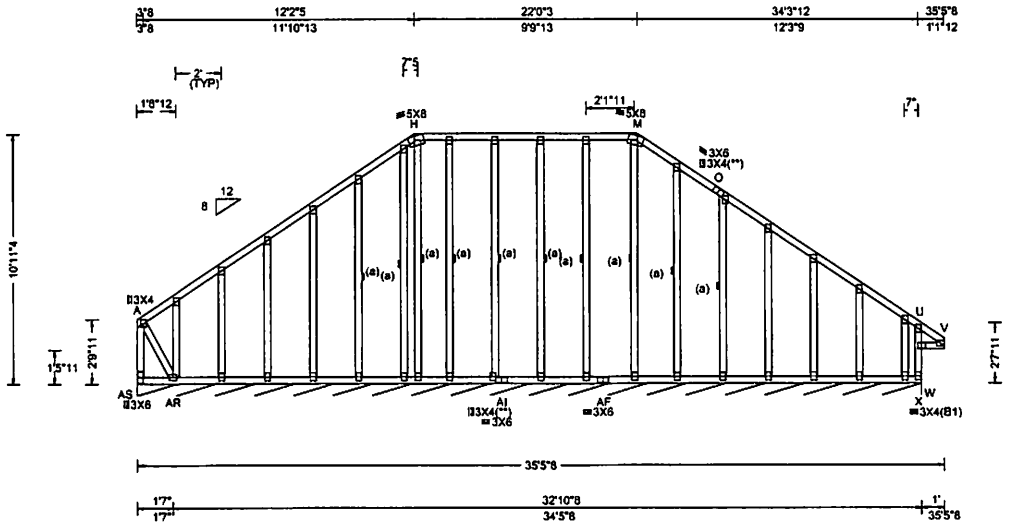


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118701 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** GE02	Cust: R 9419 JRef: 1XUU94190007 T15 DrwNo: 321.23.0624.07933 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 18.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 48.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 145 mph Enclosure: Closed Risk Category: II EXP: D Kzt: NA Mean Height: 27.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.55 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): 0.010 V 999 360 VERT(CL): 0.020 V 595 240 HORZ(LL): 0.031 S - - HORZ(TL): 0.039 S - - Creep Factor: 2.0 Max TC CSI: 0.157 Max BC CSI: 0.061 Max Web CSI: 0.174 VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AS	*106	/-	/-	/66	/54	/11

Wind reactions based on MWFRS
AS Brg Wid = 413 Min Req = -
Bearing AS is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	690	-393	M - O	689	-199
H - M	598	-169	O - U	542	-160

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A -AR	618	-675

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
A -AS	778	-731

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

(**) 2 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.

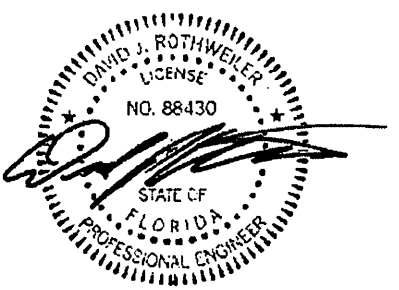
Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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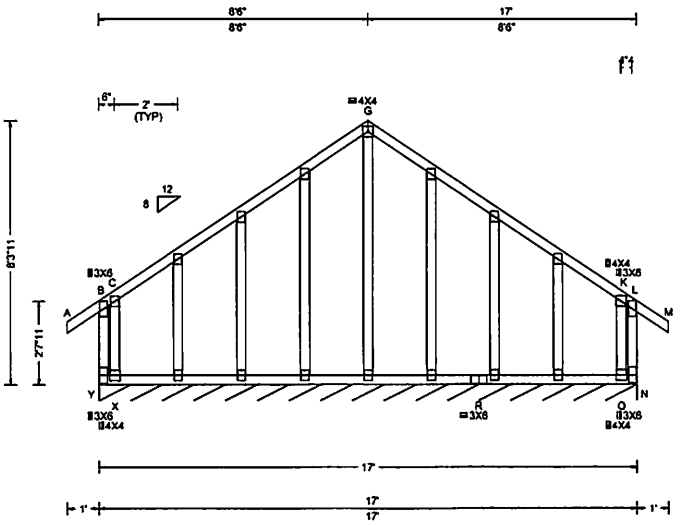
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118633 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** GE03	Cust: R 9419 JRef: 1XUU94190007 T7 DrwNo: 321.23.0624.09623 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 26.14 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#	
VERT(LL):	0.005	K	999	360
VERT(CL):	0.009	K	999	240
HORZ(LL):	0.238	L	-	-
HORZ(TL):	0.320	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.279
Max BC CSI: 0.117
Max Web CSI: 0.284

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity /R-	Non-Gravity /Rh	Non-Gravity /Rw	Non-Gravity /U	Non-Gravity /RL
N*	103	/-	/-	/65	/56	/14

Wind reactions based on MWFRS
N Brg Wid = 204 Min Req = -
Bearing Y is 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	511	-499	G - K	437	-117
C - G	437	-116	K - L	513	-501

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
Y - B	763	-760	O - K	827	-866
C - X	824	-863	L - N	765	-762

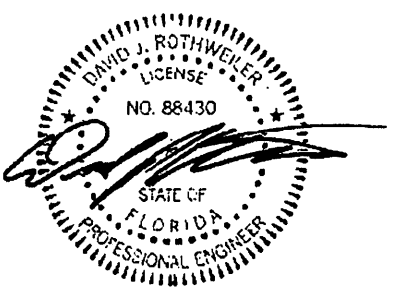
Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 3X4 except as noted.

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

Additional Notes
See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

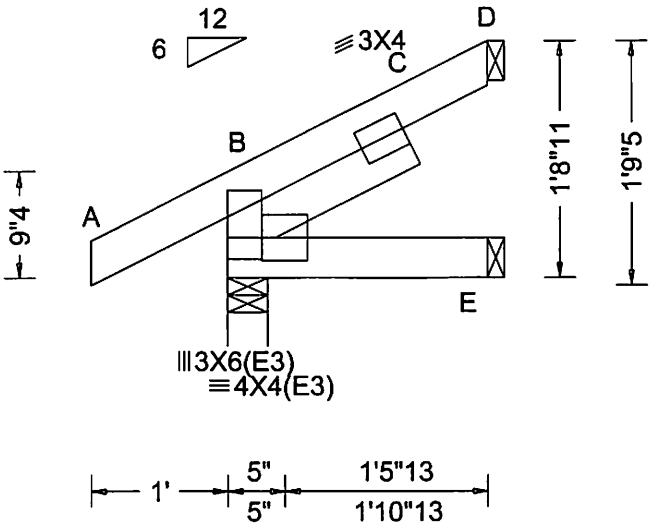


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118871 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** J03	Cust: R 9419 JRef: 1XUU94190007 T44 DrwNo: 321.23.0624.11110 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.003 C - -
NCBCLL: 10.00	Mean Height: 31.66 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.100
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.028
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.008
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	202	/-	/-	/172	/95	/112
E	36	/-	/-	/20	/-	/-
D	53	/-	/-	/38	/85	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

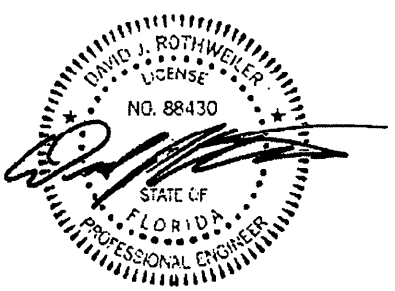
Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'

Wind

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

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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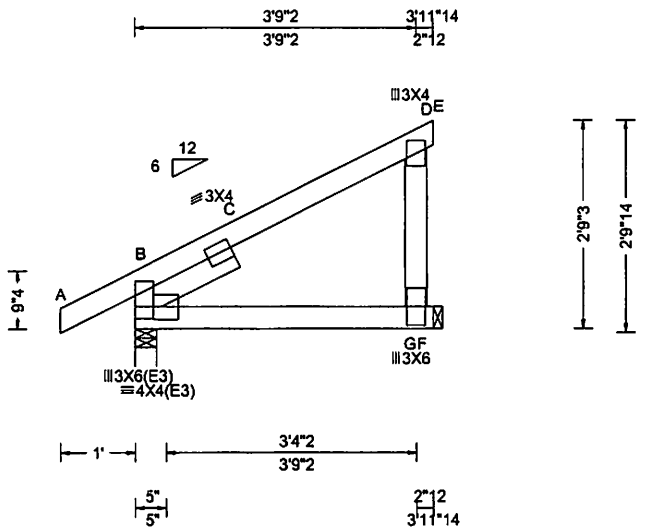
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118873 EJAC FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** J04	Cust: R 9419 JRef: 1XUU94190007 T32 DrwNo: 321.23.0624.12530 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 32.18 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	-0.031 C	-	-
HORZ(TL):	0.033 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.283
Max BC CSI: 0.144
Max Web CSI: 0.067

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	295	/-	/-	/236	/137	/199
F	189	/-	/-	/151	/181	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Truss)
F Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

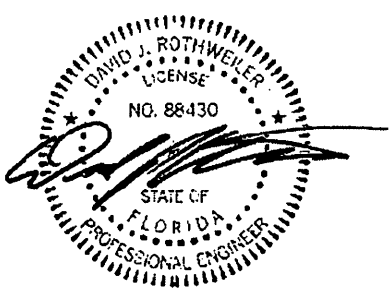
Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x4 SPF #1/#2; block length = 1.500'

Wind

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

Wind loading based on both gable and hip roof types.

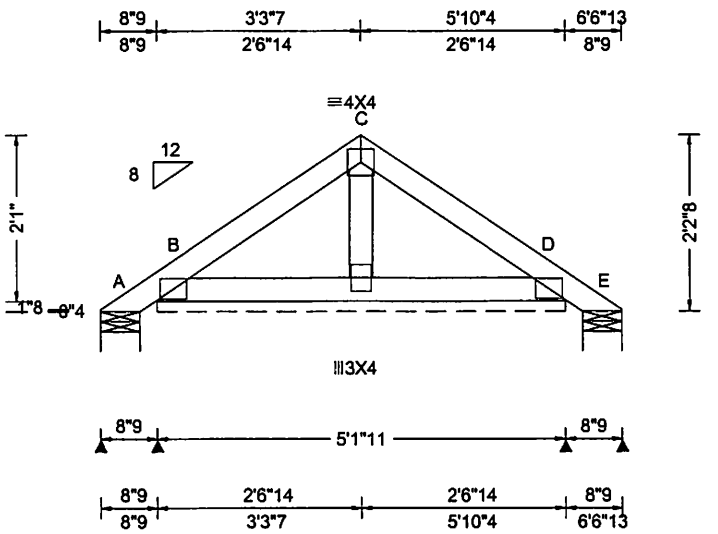


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118613 SPEC FROM:	Ply: 1 Qty: 9	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** PB01	Cust: R 9419 JRef: 1XUU94190007 T28 DrwNo: 321.23.0624.13970 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.00
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 28.76 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.001 B	999	360
VERT(CL):	0.001 B	999	240
HORZ(LL):	0.001 D	-	-
HORZ(TL):	0.001 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.089
Max BC CSI: 0.043
Max Web CSI: 0.015

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-18	/-	/70	/71	/91
B*	111	/-	/-	/90	/79	/-
E	-	/-18	/-	/28	/20	/-
B		/-116				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5 (Truss)
B Brg Wid = 61.7 Min Req = -
E Brg Wid = 5.9 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X4(A1) except as noted.

Loading

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

Wind

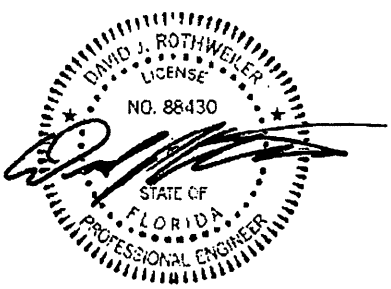
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB180160118 for piggyback details.

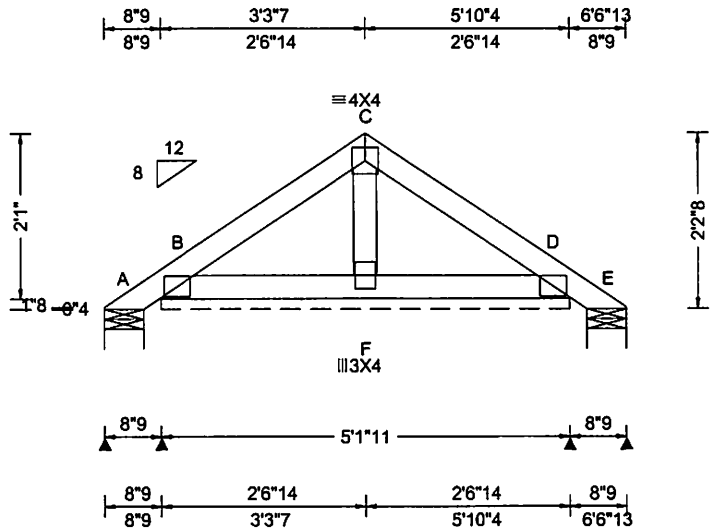


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118781 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** PB02	Cust: R 9419 JRef: 1XUU94190007 T4 DrwNo: 321.23.0624.15297 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.001 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.002 D - -
NCBCLL: 10.00	Mean Height: 33.78 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.092
Load Duration: 1.00	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.043
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.015
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-20	/-	/69	/76	/90
B*	110	/-	/-	/87	/93	/-
E	-	/-20	/-	/31	/26	/-
B		/-120				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5 (Truss)
B Brg Wid = 61.7 Min Req = -
E Brg Wid = 5.9 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

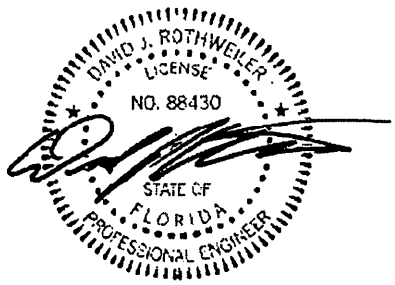
Plating Notes

All plates are 3X4(A1) except as noted.

Wind

Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.



11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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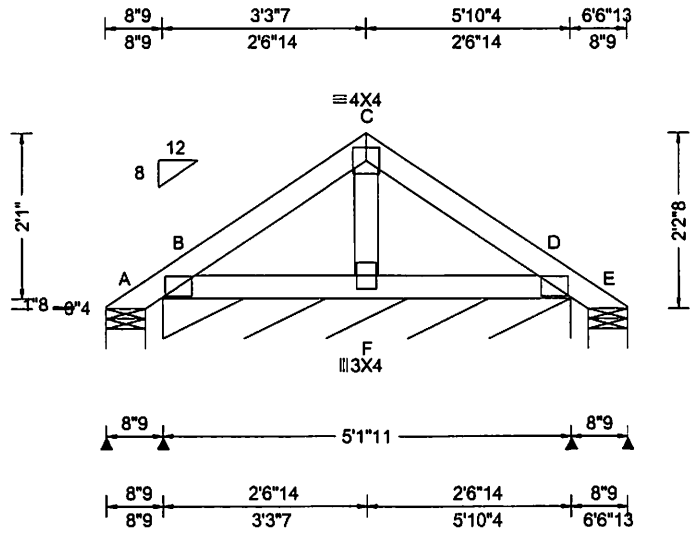
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118923 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** PB04	Cust: R 9419 JRef: 1XUU94190007 T1 DrwNo: 321.23.0624.16653 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	18.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	48.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 33.78 ft
TCDL: 5.0 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

Snow Criteria (Pg,Pf in PSF)
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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.001	D	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	D	-	-
HORZ(TL): 0.002	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.092
Max BC CSI: 0.059
Max Web CSI: 0.014

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-23	/-	/68	/76	/90
B*	127	/-	/-	/87	/91	/-
E	-	/-23	/-	/31	/26	/-
B		/-117				

Wind reactions based on MWFRS
A Brg Wid = 5.9 Min Req = 1.5 (Truss)
B Brg Wid = 61.7 Min Req = -
E Brg Wid = 5.9 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

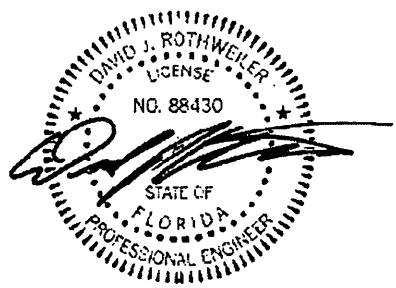
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X4(A1) except as noted.

Wind

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

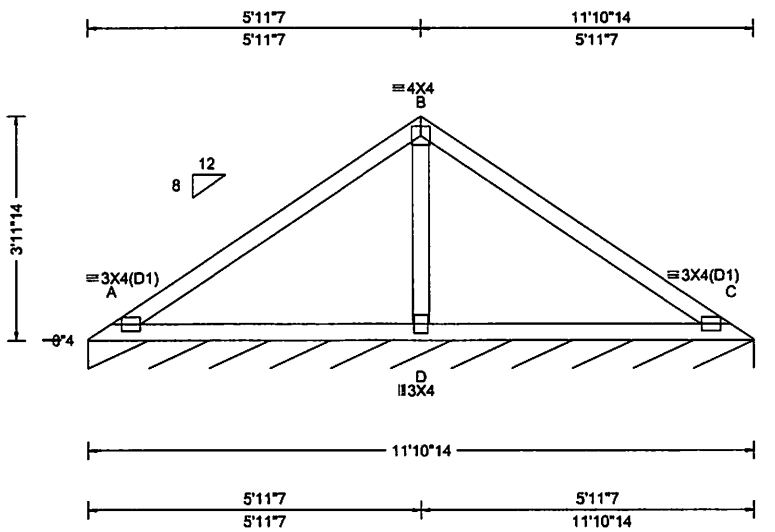


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118456 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** V01	Cust: R 9419 JRef: 1XUU94190007 T17 DrwNo: 321.23.0624.18097 / FK 11/17/2023



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.040 A 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.053 A 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.021 C - -
Des Ld:	48.00	EXP: D Kzt: NA		HORZ(TL): 0.027 C - -
NCBCLL:	10.00	Mean Height: 27.13 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.712
Load Duration:	1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.431
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.242
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	103	/-	/-	/62	/52	/13

Wind reactions based on MWFRS
C Brg Wid = 142 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	593	-390	B - C	593	-390

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - D	469	-403	D - C	469	-403

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	706	-929

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

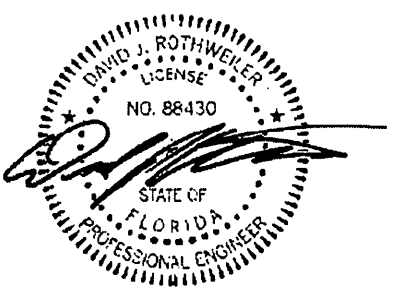
Wind

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 VALTN160118 and VAL180160118 for valley details.

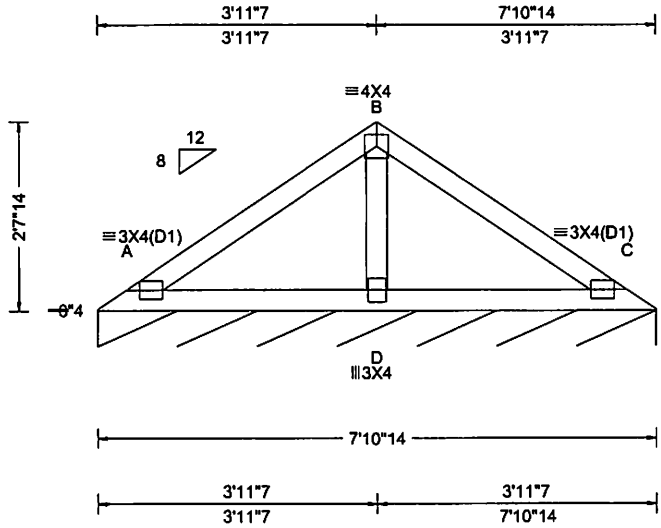


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 118458 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** V02		Cust: R 9419 JRef: 1XUU94190007 T16 DrwNo: 321.23.0624.19500 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.011 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.015 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.006 C - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.008 C - -
NCBCLL: 10.00	Mean Height: 27.80 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.277
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.176
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.080
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	102	/-	/-	/60	/51	/13

Wind reactions based on MWFRS
C Brg Wid = 94.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	342	-479

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

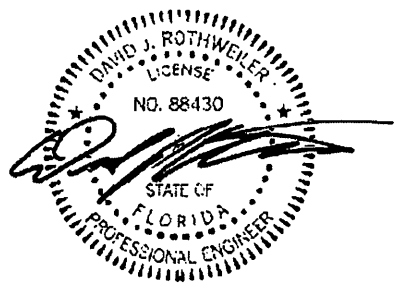
Wind

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 VALTN160118 and VAL180160118 for valley details.



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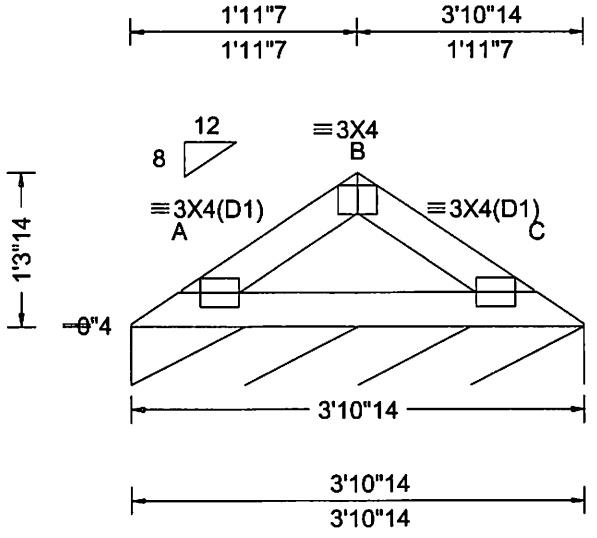
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 118460 VAL FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-EMERALD-R-Rev-2 Job Number:KTQ23455-BLDG-EMERALD-R-R Job Description:florida job-NJ079-EMERALD D **Truss Label:** V03	Cust: R 9419 JRef: 1XUU94190007 T34 DrwNo: 321.23.0624.23220 / FK 11/17/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.003 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.007 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 C - -
Des Ld: 48.00	EXP: D Kzt: NA		HORZ(TL): 0.003 C - -
NCBCLL: 10.00	Mean Height: 28.47 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.087
Load Duration: 1.00	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.121
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	102	/-	/-	/55	/42	/11

Wind reactions based on MWFRS
C Brg Wid = 46.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;

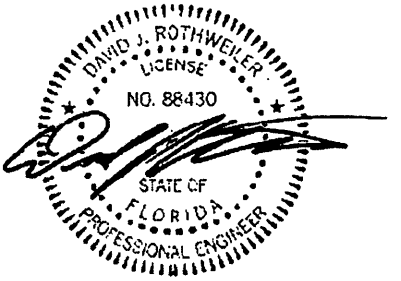
Wind

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 VALTN160118 and VAL180160118 for valley details.



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Glenview, IL 60025

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-reinforecement 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.

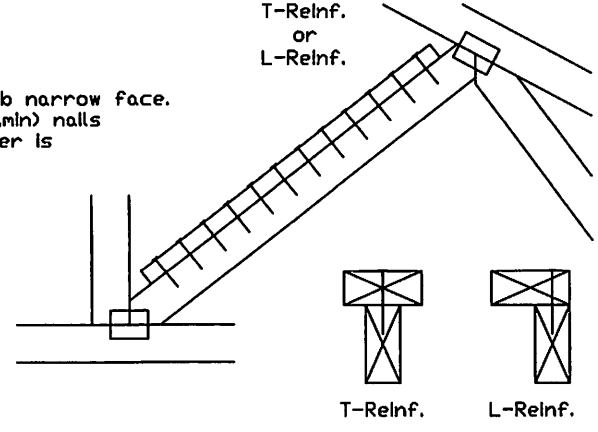
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 (*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 (*)

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.

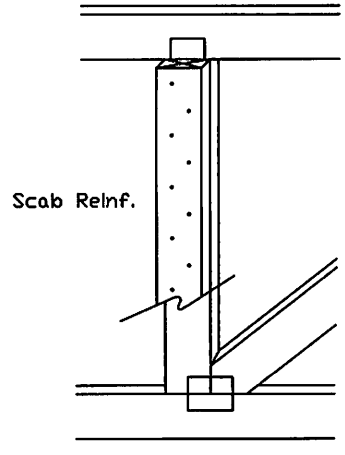
T-Reinforcement or L-Reinforcement:

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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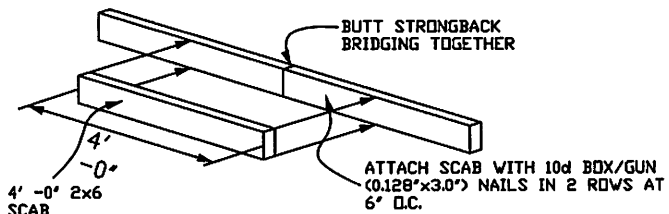
DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

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		

11/17/2023

FL REQ# 27870 David J. Rothweiler, FL PE# 88430

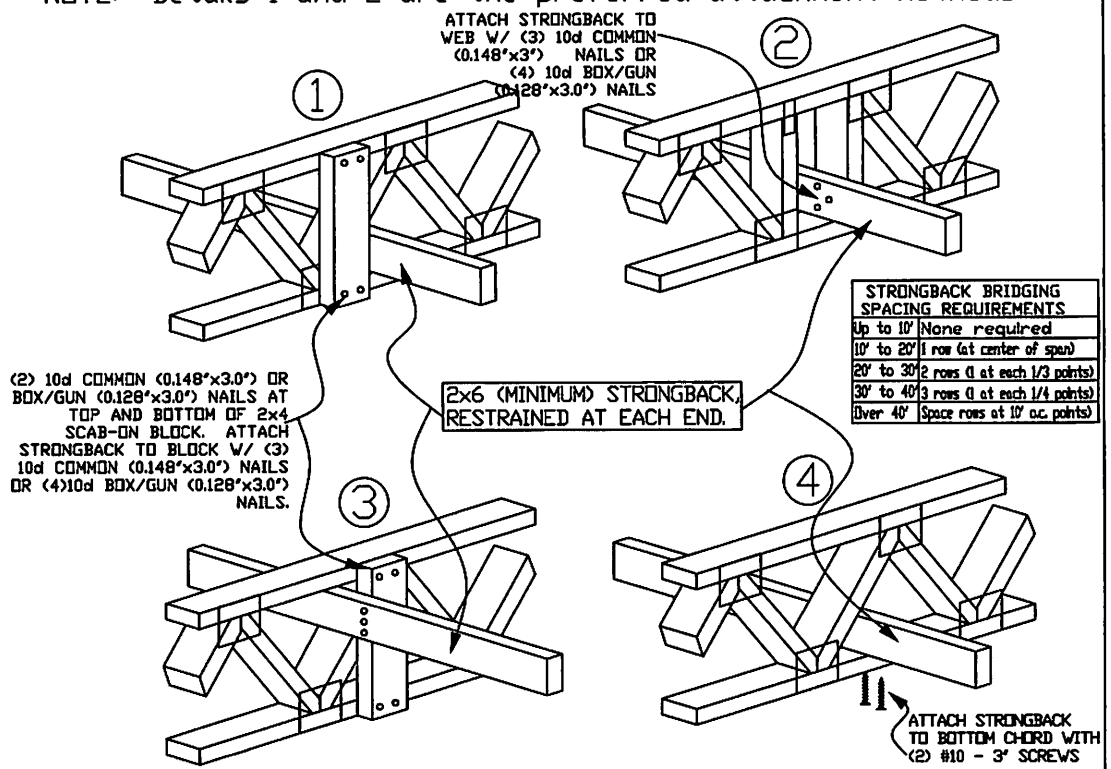
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

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Glenview, IL 60025

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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

DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REQ# 278, [illegible] Rothweiler, FL PE# 88430

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

11/17/2023

Gable Stud Reinforcement Detail

ASCE 7-16: 180 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 160 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 140 mph Wind Speed, 30' Mean Height, Prtially Enclosed, Exposure D, Kzt = 1.00

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#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 180 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' braces 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.

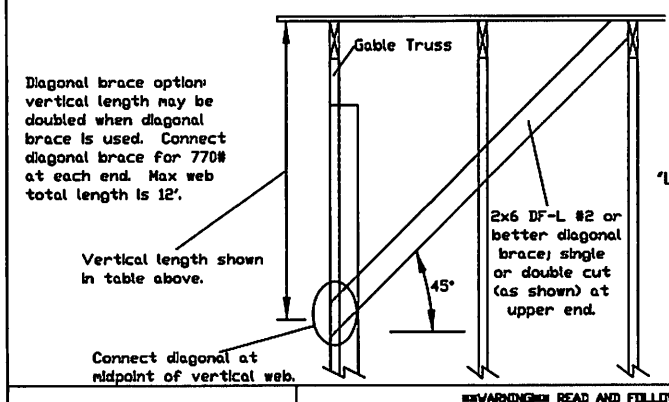
'L' bracing must be a minimum of 80% of web member length.

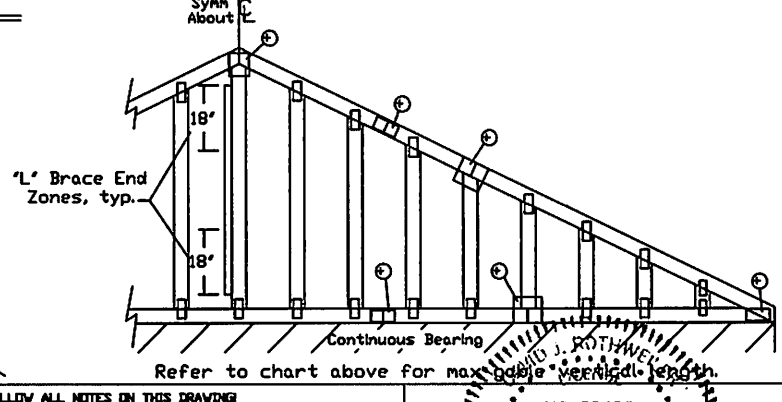
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 9' 0"	4X4

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

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





Refer to chart above for max. gable vertical length.

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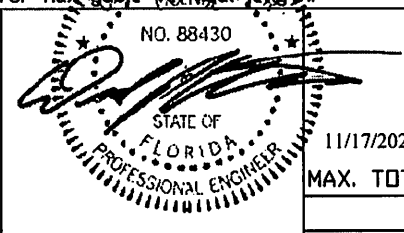
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11/17/2023

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

FL REQ# 278, David J. Rothwell, FL PE# 88430

REF	ASCE7-16-GAB18030
DATE	01/26/2018
DRWG	A18030ENC160118

NAIL SPACING DETAIL

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

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

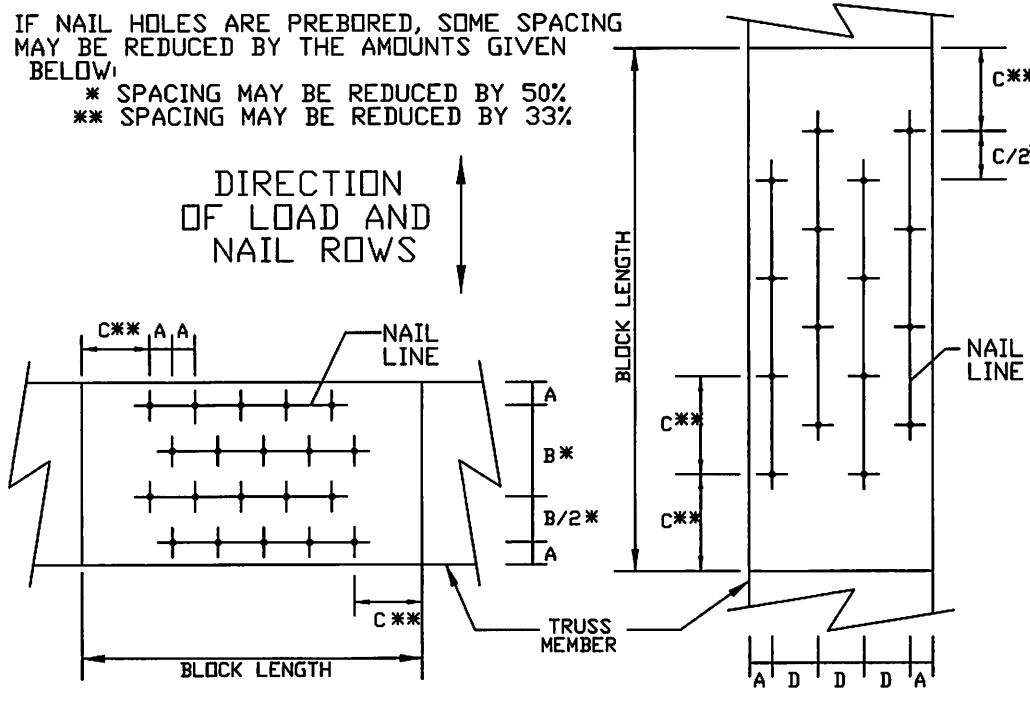
LOAD PERPENDICULAR TO GRAIN
A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN
A - EDGE DISTANCE (6 NAIL DIAMETERS)
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
* SPACING MAY BE REDUCED BY 50%
** SPACING MAY BE REDUCED BY 33%

MINIMUM NAIL SPACING DISTANCES

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



LOAD APPLIED PERPENDICULAR TO GRAIN LOAD APPLIED PARALLEL TO GRAIN

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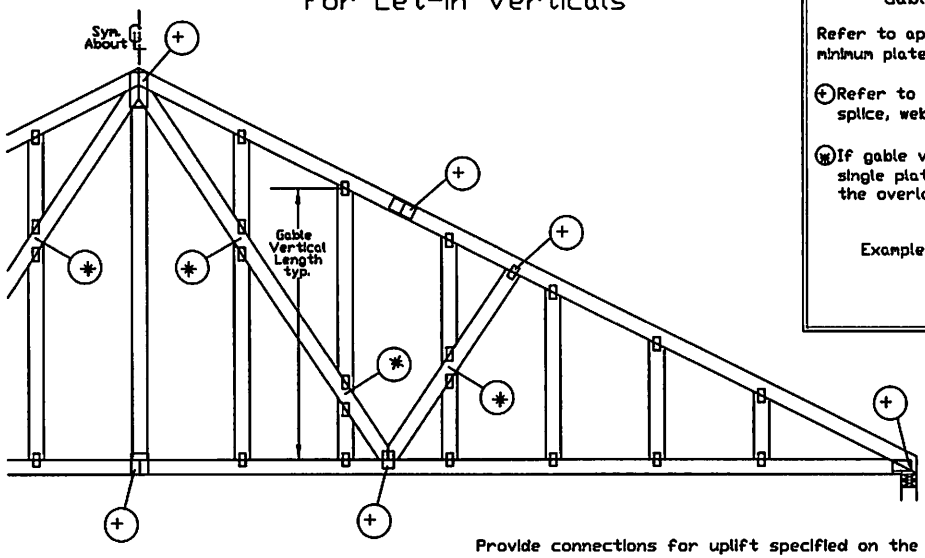
DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/17/2023

FL REQ# 278, David J. Rothweiler, FL PE# 88430

REF	NAIL SPACE
DATE	10/01/14
DRWG	CNNAILSP1014

Gable Detail
For Let-In Verticals



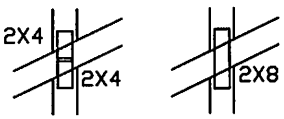
Gable Truss Plate Sizes

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

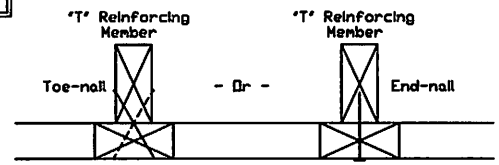
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

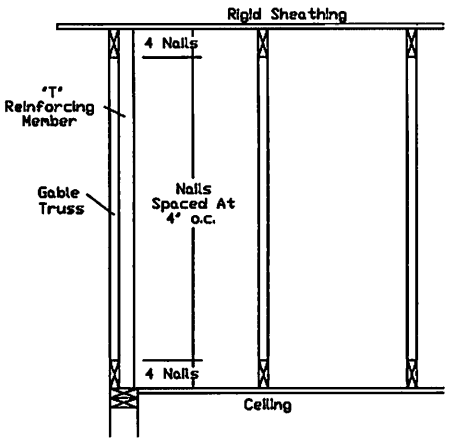
⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail





Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:
10d Common (0.148"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 unreinforced gable vertical length.

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"

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11/17/2023

FL REQ# 278, David J. Rothweiler, FL PE# 88430

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: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

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

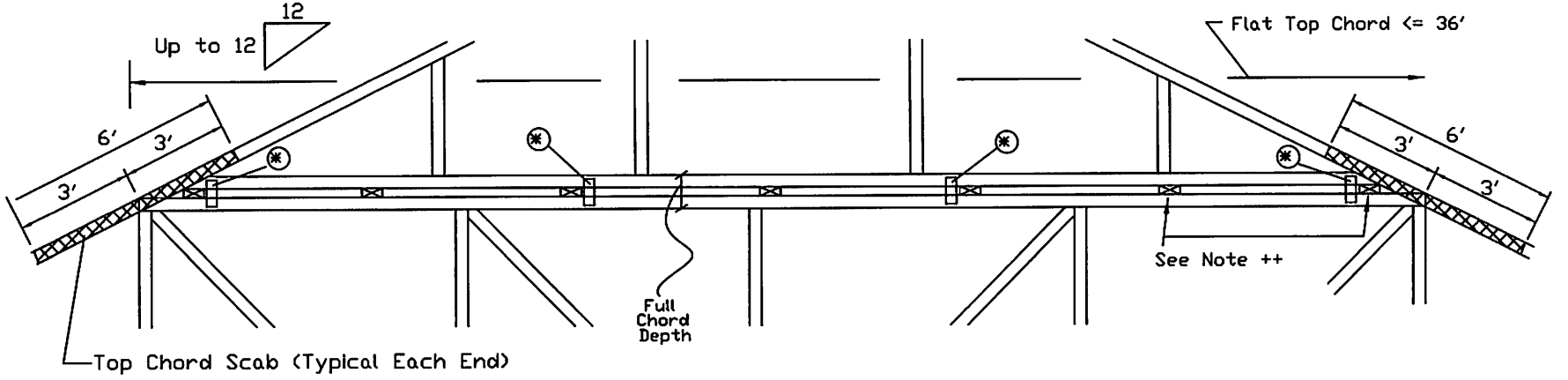
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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

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

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

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



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

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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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

DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/17/2023

FL REQ# 278, SPACING by David J. Rothweiler, P.E. FL PE# 88430

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB180160118

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

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

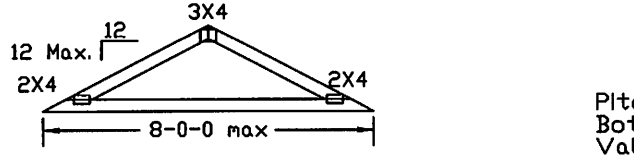
All plates shown are Alpine Wave Plates.

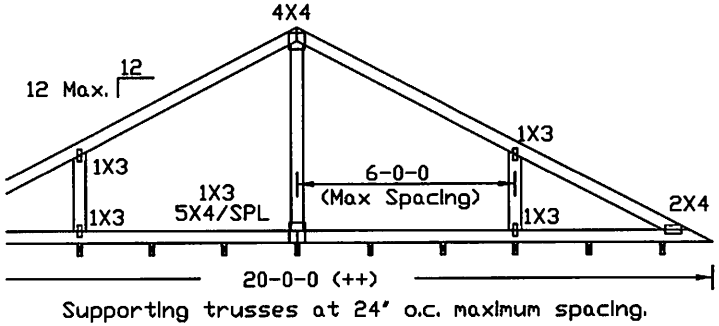
Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 'T' reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of 'T' reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

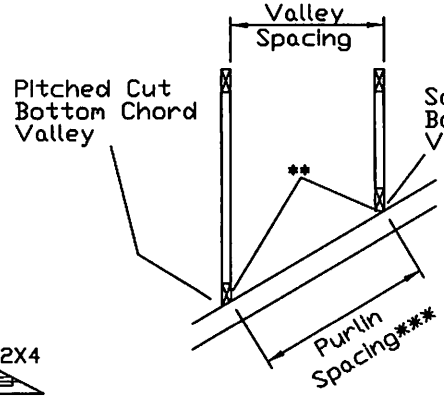
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

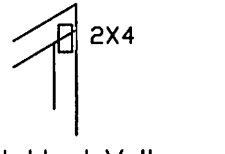
++ Larger spans may be built as long as the vertical height does not exceed 14'-0".





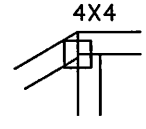
Supporting trusses at 24" o.c. maximum spacing.



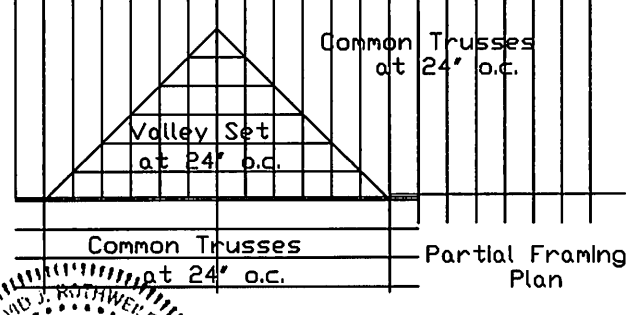


Square Cut Bottom Chord Valley

Stubbed Valley End Detail



Optional Hip Joint Detail



Partial Framing Plan

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Glenview, IL 60025

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DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	30	30	40PSF	REF VALLEY DETAIL
TC DL	20	15	7PSF	DATE 01/26/2018
BC DL	10	10	10 PSF	DRWG VAL180160118
BC LL	0	0	0 PSF	
TOT. L.D.	60	55	57PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		

FL REQ# 27 David J. Rothweiler FL PE# 88430

Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with: (2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location: 170 mph for SP (G = 0.55, min.), 155 mph for DF-L (G = 0.50, min.), or 120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

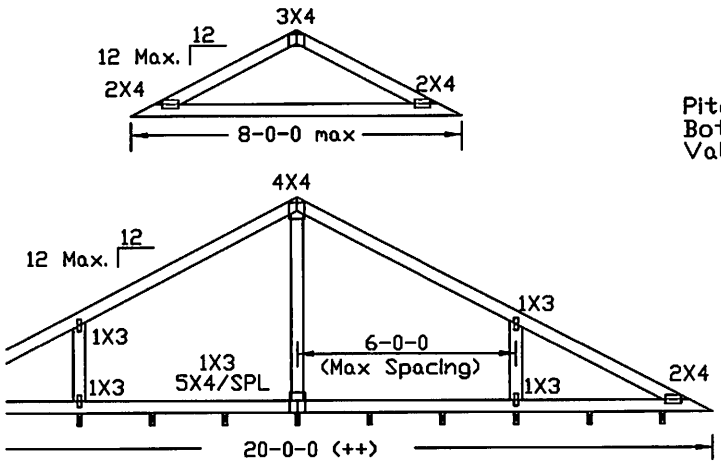
All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

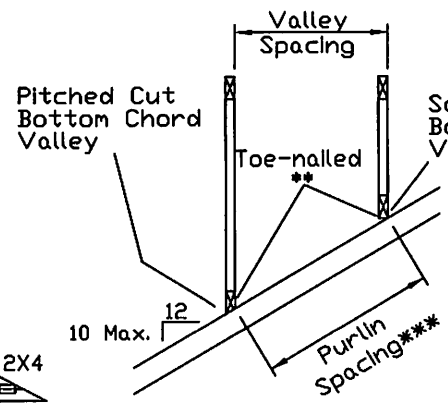
Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

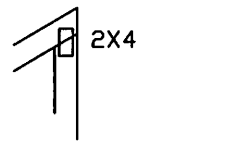
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

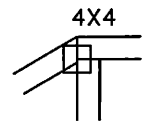


Supporting trusses at 24" o.c. maximum spacing.



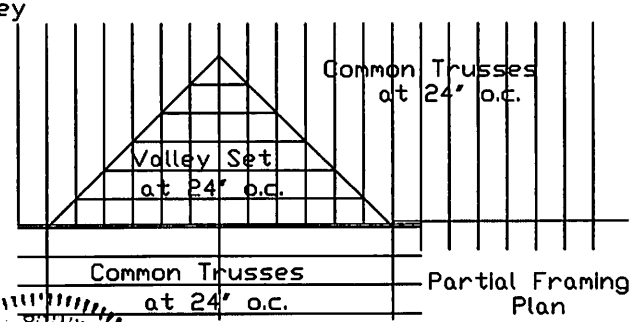


Stubbed Valley End Detail



Optional Hip Joint Detail

Square Cut Bottom Chord Valley



Partial Framing Plan

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TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC Ll	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25	1.33	1.15	1.15
SPACING			24.0"	

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VALTN160118

FL REQ# 278, David J. Rothweiler, FL PE# 88430