

11/17/2023

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

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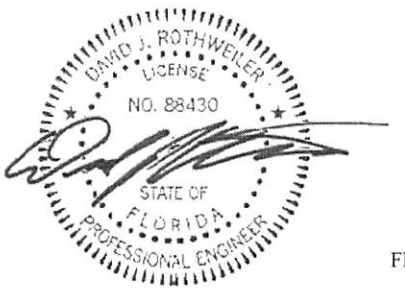
Site Information:	**Page 1:**
Customer: Kora Compoments, LLC	*Job Number:* KTQ23455-BLDG-VILLA-XL-R-REV-2
Job Description: Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	
Address: PARCEL ID: XXX GLADES COUNTY,FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 22.02.00 *JRef #:* 1XUU94190009
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 145 *Building Type:* Closed	*Design Loading (psf):* 45.00

This package contains general notes pages, 55 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	321.23.0629.04080	A01
3	321.23.0629.09093	A03
5	321.23.0629.14147	A05
7	321.23.0629.19750	A07
9	321.23.0629.26550	A09
11	321.23.0629.32677	A12
13	321.23.0629.37877	A14
15	321.23.0629.42257	A16
17	321.23.0629.46887	A18
19	321.23.0629.51767	A20
21	321.23.0629.55410	B02
23	321.23.0629.59010	B04
25	321.23.0630.02533	B06
27	321.23.0630.06323	B08
29	321.23.0630.08073	B10
31	321.23.0630.11687	B12
33	321.23.0630.15340	B14
35	320.23.1605.57399	CJ01
37	321.23.0630.18820	CJ03
39	321.23.0630.21593	CJ05
41	321.23.0630.31717	G05
43	321.23.0630.42130	G10
45	320.23.1605.57415	J02
47	320.23.1605.57446	J04

Item	Drawing Number	Truss
2	321.23.0629.06723	A02
4	321.23.0629.11650	A04
6	321.23.0629.16483	A06
8	321.23.0629.22260	A08
10	321.23.0629.29647	A11
12	321.23.0629.35337	A13
14	321.23.0629.40113	A15
16	321.23.0629.44220	A17
18	321.23.0629.49430	A19
20	321.23.0629.53620	B01
22	321.23.0629.57350	B03
24	321.23.0630.00737	B05
26	321.23.0630.04470	B07
28	320.23.1605.57431	B09
30	321.23.0630.09793	B11
32	321.23.0630.13403	B13
34	321.23.0630.17310	B15
36	320.23.1605.57698	CJ02
38	321.23.0630.20260	CJ04
40	321.23.0630.29140	G04
42	320.23.1605.57651	G03
44	320.23.1605.57477	J01
46	320.23.1605.57461	J03
48	321.23.0630.48623	J06



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Job Description: Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	
Address: PARCEL ID: XXX GLADES COUNTY,FL	

Item	Drawing Number	Truss
49	321.23.0630.24397	G01
51	321.23.0630.43957	G11
53	321.23.0630.26647	G02
55	321.23.0630.33703	G06
57	VAL180160118	
59	DEFLCAMB1014	

Item	Drawing Number	Truss
50	321.23.0630.40247	G09
52	321.23.0630.38210	G08
54	321.23.0630.35097	G07
56	BRCLBSUB0119	
58	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.

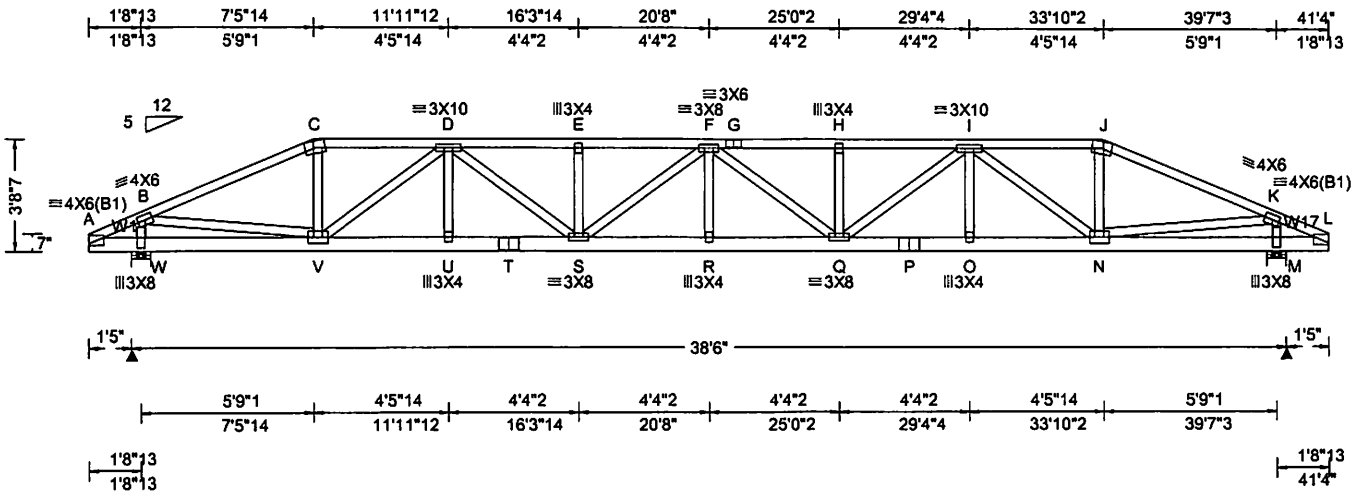
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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: 76235 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A01	Cust: R 9419 JRef: 1XUU94190009 T31 DrwNo: 321.23.0629.04080 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.212 R	999	360	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.492 R	924	240	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.044 C	-	-	
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.103 C	-	-	
NCBCLL:	10.00	Mean Height: 22.81 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.279			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.273			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI:	0.519			
		C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)					
		Loc. from endwall: not in 6.50 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21				
		GCpi: 0.18	WAVE					
		Wind Duration: 1.33						

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	1913	/-	/-	/1213	/794	/110
M	1913	/-	/-	/1213	/794	/-

Wind reactions based on MWFRS
W Brg Wid = 7.6 Min Req = 1.6 (Truss)
M Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings W & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	2253	-2880	G - H	3862	-4691
C - D	2183	-2612	H - I	3862	-4691
D - E	3862	-4691	I - J	2183	-2612
E - F	3862	-4691	J - K	2253	-2880
F - G	3862	-4691			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
W - V	477	-412	R - Q	4974	-3897
V - U	3934	-3077	Q - P	3934	-3035
U - T	3934	-3077	P - O	3934	-3035
T - S	3934	-3077	O - N	3934	-3035
S - R	4974	-3897	N - M	477	-372

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - B	1350	-1707	Q - I	959	-802
B - V	2168	-1628	I - N	1425	-1672
C - V	713	-497	N - J	713	-497
V - D	1426	-1672	N - K	2168	-1630
D - S	959	-801	K - M	1349	-1707

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP 2400f-2.0E; W1,W17 2x4 SPF #1/#2;

Plating Notes

All plates are 5X8 except as noted.

Purlins

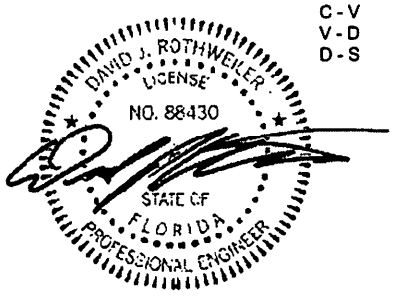
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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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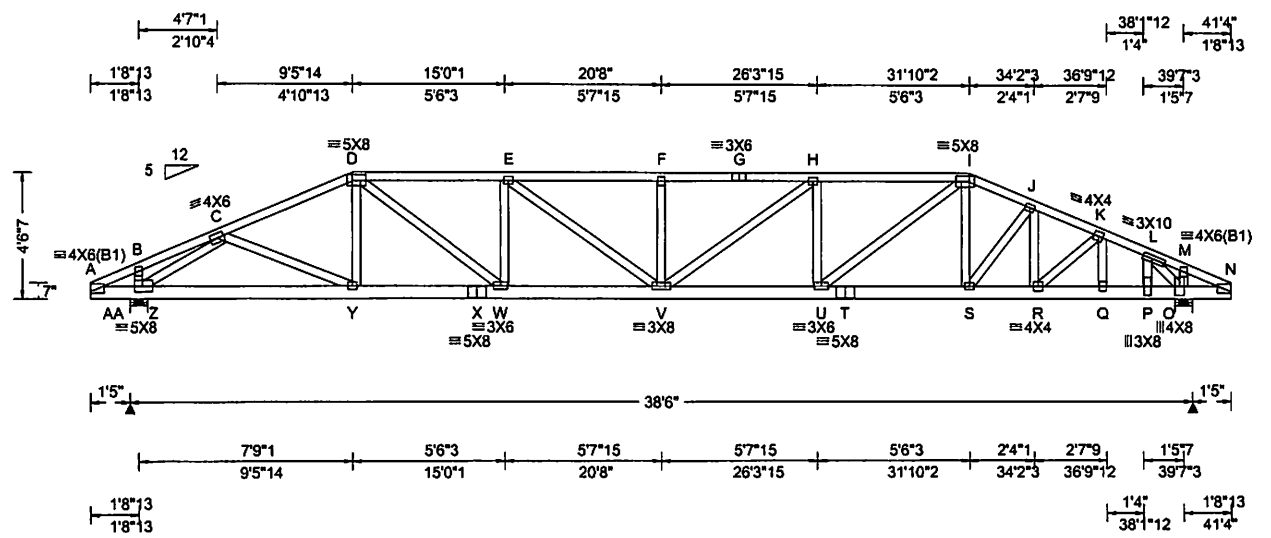
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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SEQN: 76239 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A02	Cust: R 9419 JRef: 1XUU94190009 T30 DrwNo: 321.23.0629.06723 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.202	F	999	360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.469	F	962	240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.046	D	-	-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.108	D	-	-
NCBCLL:	10.00	Mean Height: 23.23 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.697			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.327			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI:	0.846			
		C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)					
		Loc. from endwall: not in 6.50 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21				
		GCpi: 0.18	WAVE					
		Wind Duration: 1.33						

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	1914	/-	/-	/1230	/805	/139
O	1914	/-	/-	/1230	/805	/-

Wind reactions based on MWFRS
AA Brg Wid = 7.6 Min Req = 1.6 (Truss)
O Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings AA & O are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	2186	-2830	H - I	2896	-3551
D - E	2908	-3550	I - J	2219	-2778
E - F	3181	-3917	J - K	2046	-2653
F - G	3181	-3917	K - L	1510	-2013
G - H	3181	-3917			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - Y	2043	-1546	T - S	2547	-1823
Y - X	2552	-1864	S - R	2455	-1761
X - W	2552	-1864	R - Q	1830	-1298
W - V	3596	-2719	Q - P	1795	-1270
V - U	3598	-2666	P - O	1635	-1158
U - T	2547	-1823			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Z - C	1915	-2487	H - U	724	-671
C - Y	570	-408	U - I	1276	-1082
D - W	1269	-1097	R - K	863	-620
W - E	713	-661	K - Q	672	-883
E - V	408	-346	P - L	1131	-774
F - V	461	-386	L - O	1798	-2568
V - H	406	-354			

Lumber

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

Plating Notes

All plates are 3X4 except as noted.

Purlins

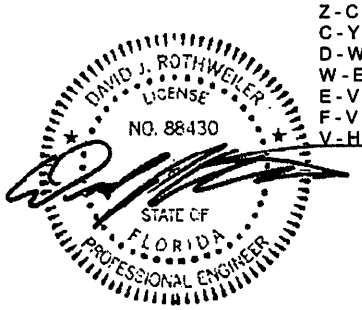
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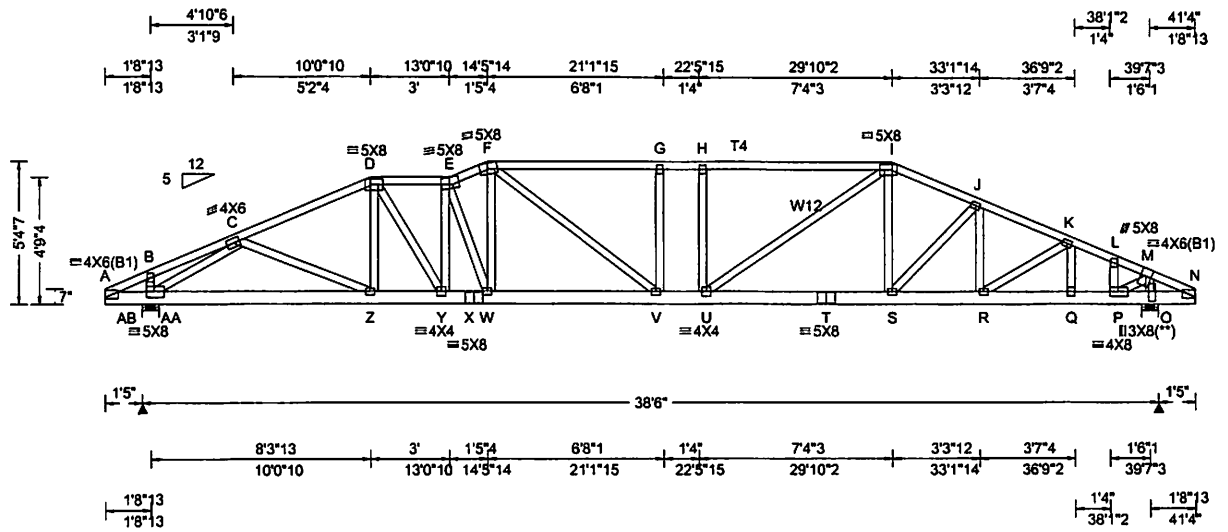
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76241 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A03	Cust: R 9419 JRef: 1XUU94190009 T8 DrwNo: 321.23.0629.09093 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.159 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.368 G 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.039 D - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.090 D - -
NCBCLL: 10.00	Mean Height: 23.64 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.619
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.335
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.707
	C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
	GCpi: 0.18	WAVE	
	Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AB	1921	/-	/-	/1242	/817	/168
O	1906	/-	/-	/1234	/811	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 1.6 (Truss)
O Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings AB & O are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	2107	-2835	H - I	2619	-3285
D - E	2405	-3026	I - J	2143	-2802
E - F	2505	-3168	J - K	2038	-2816
F - G	2624	-3289	K - L	1532	-2195
G - H	2632	-3296	L - M	1417	-2071

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	2140	-1572	U - T	2559	-1722
Z - Y	2549	-1789	T - S	2559	-1722
Y - X	3080	-2210	S - R	2577	-1731
X - W	3080	-2210	R - Q	1991	-1311
W - V	2960	-2108	Q - P	1963	-1289
V - U	3296	-2346			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- C	1903	-2536	H - U	463	-394
C - Z	461	-287	U - I	965	-805
D - Y	914	-774	R - K	723	-492
Y - E	668	-829	K - Q	532	-715
E - W	326	-388	P - M	2133	-1382
F - W	558	-304	M - O	1418	-2145
F - V	604	-413			

Lumber

Top chord: 2x4 SPF #1/#2; T4 2x4 SPF 1650f-1.5E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W12 2x4 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

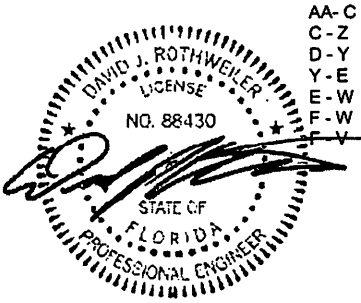
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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

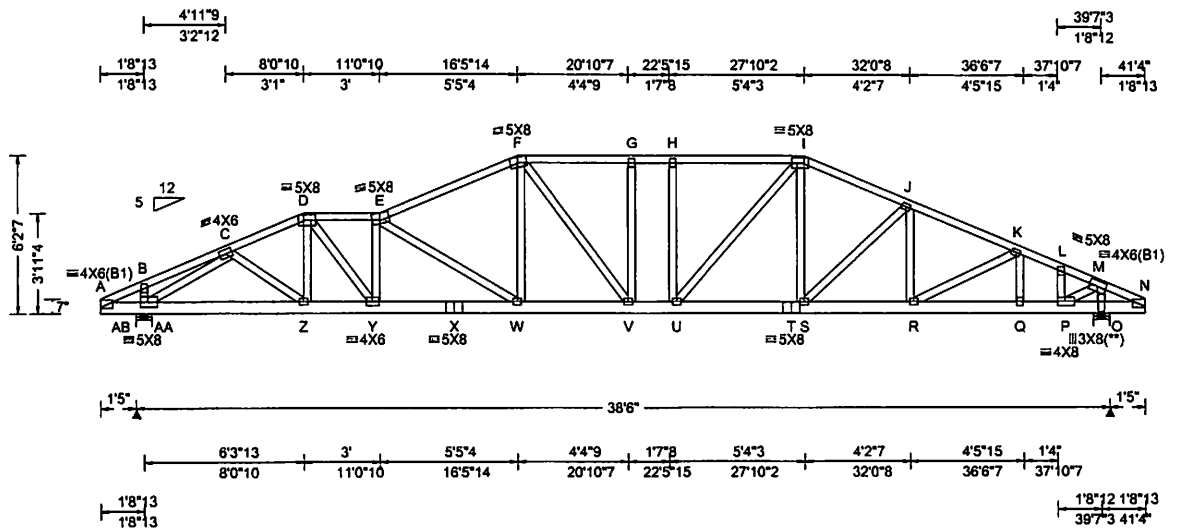
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76245 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A04	Cust: R 9419 JRef: 1XUU94190009 T1 DrwNo: 321.23.0629.11650 / FK 11/17/2023	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.06 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	G	999	360
VERT(CL): 0.330	G	999	240
HORZ(LL): 0.036	D	-	-
HORZ(TL): 0.085	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.477
Max BC CSI: 0.333
Max Web CSI: 0.718

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AB	1921	/-	/-	/1243	/722	/197
O	1906	/-	/-	/1234	/717	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 1.6 (Truss)
O Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings AB & O are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1988	-2759	H - I	2167	-2792
D - E	2438	-3297	I - J	1943	-2690
E - F	2205	-2994	J - K	1915	-2865
F - G	2172	-2796	K - L	1470	-2287
G - H	2176	-2799	L - M	1373	-2191

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Z	2132	-1546	U - T	2428	-1483
Z - Y	2504	-1723	T - S	2428	-1483
Y - X	3379	-2342	S - R	2604	-1598
X - W	3379	-2342	R - Q	2081	-1251
W - V	2698	-1787	Q - P	2057	-1234
V - U	2799	-1839			

Maximum Web Forces Per Ply (lbs)

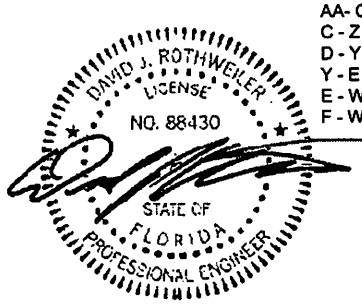
Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- C	1763	-2506	F - V	377	-229
C - Z	472	-267	U - I	674	-531
D - Y	1315	-923	R - K	626	-396
Y - E	796	-997	K - Q	466	-645
E - W	663	-813	P - M	2168	-1308
F - W	622	-345	M - O	1315	-2110

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

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

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

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.

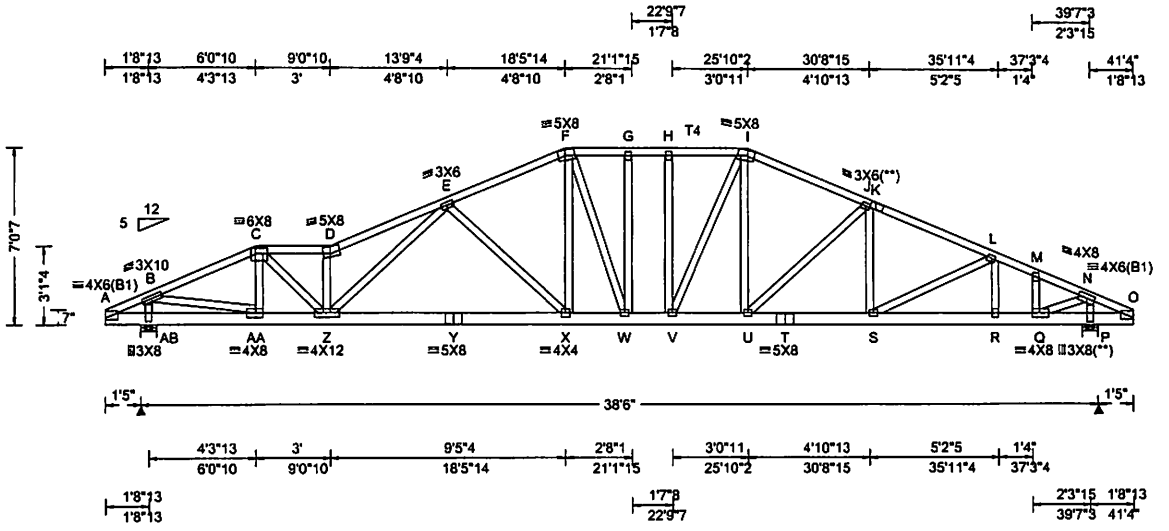


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 76243 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T7
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.14147
		Truss Label: A05	/ FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.48 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.149	X	999	360
VERT(CL): 0.345	X	999	240
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.095	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.514
Max BC CSI: 0.304
Max Web CSI: 0.629

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

Loc	R+	Gravity / R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
AB	1913	/-	/-	/1234	/716	/226
P	1913	/-	/-	/1232	/717	/-

Wind reactions based on MWFRS
AB Brg Wid = 7.6 Min Req = 1.6 (Truss)
P Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings AB & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1729	-2685	H - I	1781	-2456
C - D	2353	-3680	I - J	1729	-2568
D - E	2679	-4141	J - K	1771	-2749
E - F	1868	-2760	K - L	1770	-2880
F - G	1785	-2459	L - M	1456	-2461
G - H	1787	-2460	M - N	1379	-2411

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB-AA	406	-352	V - U	2301	-1244
AA- Z	2419	-1549	U - T	2603	-1436
Z - Y	3053	-1858	T - S	2603	-1436
Y - X	3053	-1858	S - R	2248	-1229
X - W	2479	-1407	R - Q	2230	-1216
W - V	2460	-1398			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AB- B	1133	-1681	V - I	531	-356
B -AA	2093	-1248	I - U	406	-138
C -AA	309	-467	U - J	276	-447
C - Z	1750	-1000	S - L	445	-239
Z - D	1242	-1802	L - R	377	-546
Z - E	1007	-627	Q - N	2234	-1239
E - X	631	-802	N - P	1172	-2007
X	833	-411			

Lumber

Top chord: 2x4 SPF #1/#2; T4 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

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.

Purlins

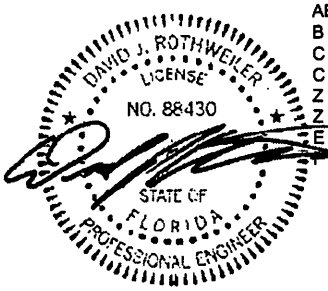
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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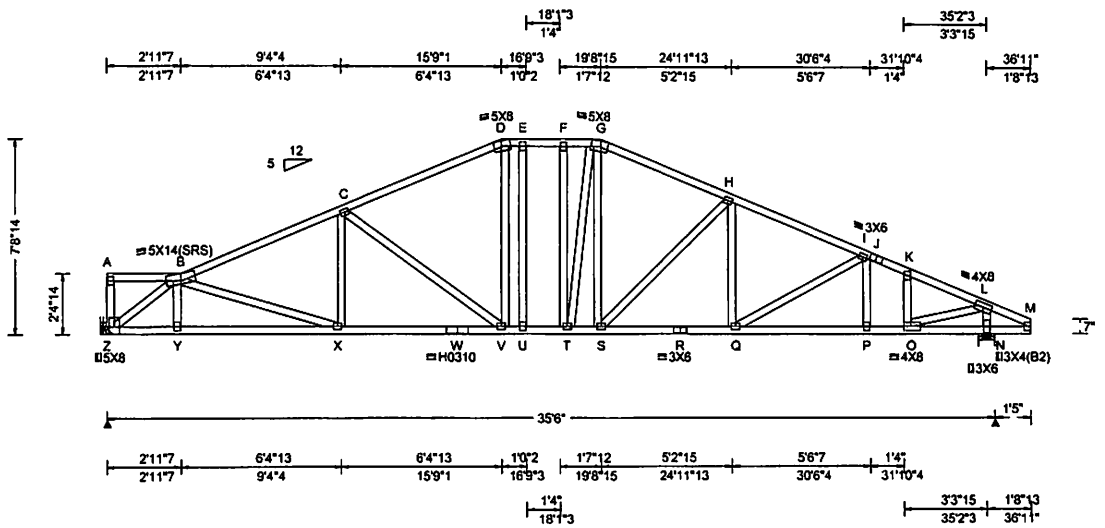
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76247 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A06	Cust: R 9419 JRef: 1XUU94190009 T4 DrwNo: 321.23.0629.16483 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.128 V 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.291 V 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.050 N - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.119 K - -
NCBCLL: 10.00	Mean Height: 24.83 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.551
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.862
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.786
	C&C Dist a: 3.69 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
	GCpi: 0.18	WAVE, HS	
	Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Z	1625	/-	/-	/947	/600	/256
N	1792	/-	/-	/1147	/635	/-

Wind reactions based on MWFRS
Z Brg Wid = - Min Req = -
N Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearing N 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	1479	-2693	G - H	1360	-2143
C - D	1361	-2178	H - I	1445	-2537
D - E	1330	-1920	I - J	1334	-2401
E - F	1329	-1919	J - K	1332	-2437
F - G	1327	-1918	K - L	1227	-2350

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - Y	2157	-1107	T - S	1901	-862
Y - X	2151	-1111	S - R	2285	-1105
X - W	2409	-1213	R - Q	2285	-1105
W - V	2409	-1213	Q - P	2178	-1069
V - U	1919	-897	P - O	2173	-1064
U - T	1919	-897			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Z - B	1489	-2643	S - H	352	-571
C - V	397	-692	K - O	244	-411
D - V	472	-184	O - L	2244	-1128
T - G	451	-323	L - N	1012	-1819
G - S	560	-224			

Lumber

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

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

Wind

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

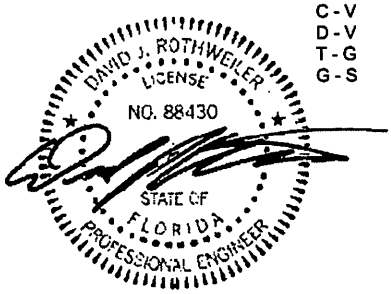
Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Deflection

Max JT VERT DEFL: LL: 0.13" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

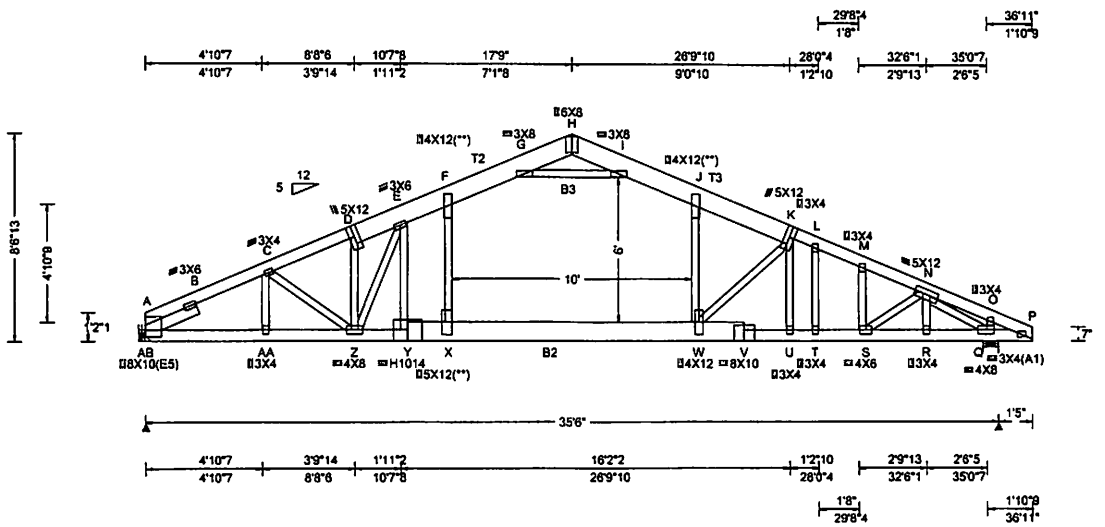


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 76249 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A07	Cust: R 9419 JRef: 1XUU94190009 T62 DrwNo: 321.23.0629.19750 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.217 Y 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.489 Y 859 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.072 E - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.169 E - -
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.685
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.372
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.519
		C&C Dist a: 3.69 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
		GCpi: 0.18	WAVE, HS	
		Wind Duration: 1.33		

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E;
B2 2x10 SP 2400f-2.0E; B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x6 SPF #1/#2; block length = 2.360'

Plating Notes

(**) 3 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 12-9-0 to 22-9-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AB	2311	/-	/-	/973	/584	/270
Q	2511	/-	/-	/1138	/633	/-

Wind reactions based on MWFRS
AB Brg Wid = - Min Req = -
Q Brg Wid = 7.6 Min Req = 2.1 (Truss)
Bearing Q is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

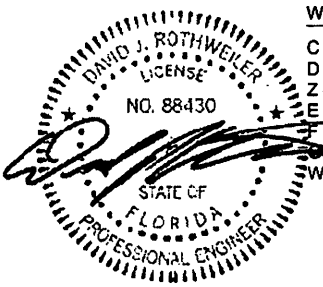
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	1304	-4178	I - J	1231	-3550
B - C	1301	-4099	J - K	1268	-4108
C - D	1349	-4230	K - L	1295	-3932
D - E	1483	-4393	L - M	1284	-4030
E - F	1260	-4113	M - N	1215	-3943
F - G	1228	-3521	N - O	195	-541
G - H	573	-62	O - P	162	-521
H - I	516	-15			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AA	3643	-1083	V - U	3666	-982
AA- Z	3638	-1083	U - T	3659	-982
Z - Y	3652	-859	T - S	3657	-982
Y - X	3619	-845	S - R	2639	-776
X - W	3626	-841	R - Q	2652	-781
W - V	3668	-981	Q - P	520	-146

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	464	-71	W - K	410	-465
D - Z	395	-859	U - K	165	-717
Z - E	943	-522	M - S	161	-409
E - Y	268	-741	S - N	1363	-290
F - X	1510	-126	N - Q	925	-2866
	1291	-4137	Q - O	249	-420
W - J	1200	-135			



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

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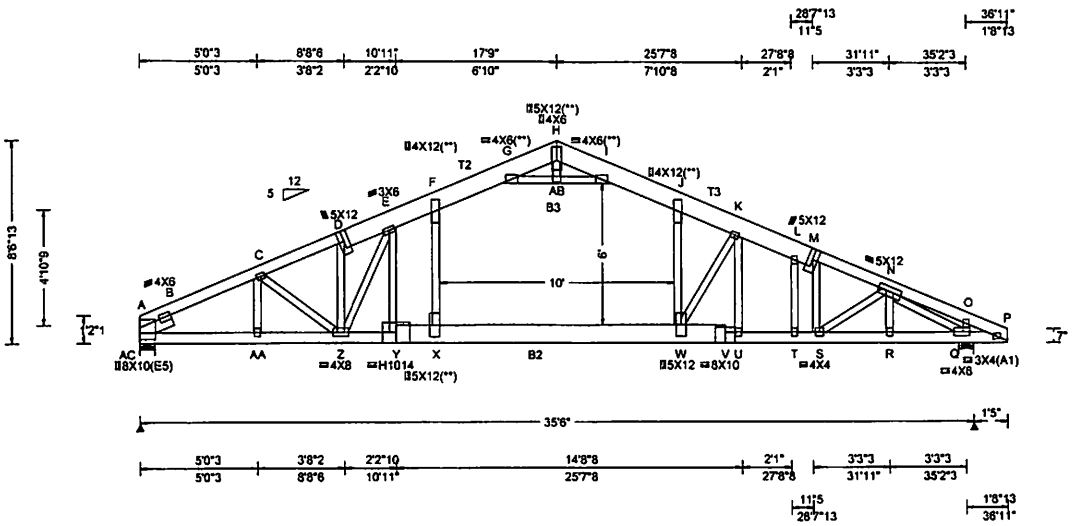
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76251 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T44
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.22260
		Truss Label: A08	/ FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 25.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.69 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.220	Y	999	360
VERT(CL): 0.496	Y	847	240
HORZ(LL): 0.066	E	-	-
HORZ(TL): 0.159	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.655
Max Web CSI: 0.754

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	2311	/-	/-	/973	/584	/270
Q	2511	/-	/-	/1138	/633	/-

Wind reactions based on MWFRS
AC Brg Wid = 7.6 Min Req = 1.9 (Truss)
Q Brg Wid = 7.6 Min Req = 2.1 (Truss)
Bearings AC & 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	1305	-4190	I - J	1235	-3568
B - C	1298	-4109	J - K	1323	-4226
C - D	1352	-4229	K - L	1330	-4107
D - E	1504	-4421	L - M	1291	-4057
E - F	1259	-4130	M - N	1250	-4039
F - G	1233	-3546	N - O	204	-557
G - H	347	-637	O - P	168	-542
H - I	349	-623			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A -AA	3631	-1080	V - U	3781	-992
AA- Z	3626	-1080	U - T	3750	-992
Z - Y	3674	-863	T - S	3755	-995
Y - X	3643	-850	S - R	2939	-862
X - W	3650	-846	R - Q	2946	-865
W - V	3783	-991	Q - P	532	-152

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	481	-61	AB- I	1060	-3372
Z - D	412	-876	W - J	1545	-283
Z - E	923	-532	W - K	548	-665
E - Y	247	-702	U - K	193	-730
E - X	1481	-111	S - N	1100	-192
G -AB	1060	-3372	N - Q	995	-3102
H -AB	1209	-364			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x10 SP #1;
B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Slider: 2x6 SPF #1/#2; block length = 1.500'

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 12-9-0 to 22-9-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

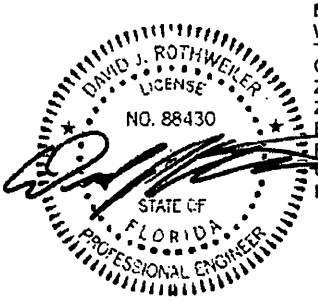
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

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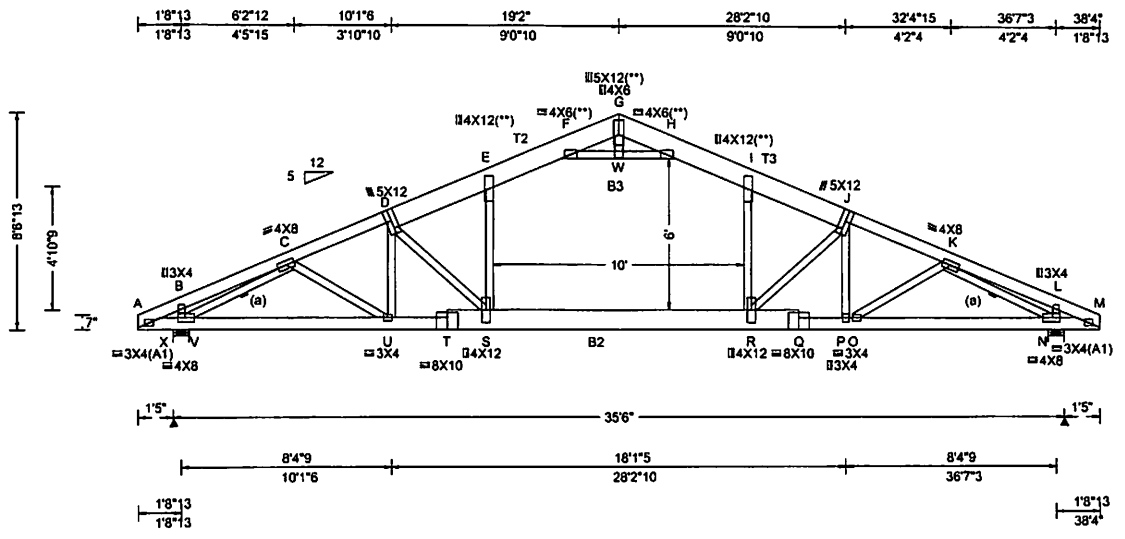
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76253 COMN FROM:	Ply: 1 Qty: 5	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A09	Cust: R 9419 JRef: 1XUU94190009 T42 DrwNo: 321.23.0629.26550 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.168 R	999	360	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.375 R	999	240	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.055 E	-	-	
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.130 E	-	-	
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.611			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.729			
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI:	0.517			
		C&C Dist a: 3.83 ft	FT/RT/PT:10(0)/3(0)/1(0)					
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21				
		GCpi: 0.18	WAVE					
		Wind Duration: 1.33						

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x10 SP #1;
B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

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

Loading

Attic room loading from 14-2-0 to 24-2-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	2478	/-	/-	/1133	/634	/269
N	2478	/-	/-	/1133	/634	/-

Wind reactions based on MWFRS
X Brg Wid = 7.6 Min Req = 2.1 (Truss)
N Brg Wid = 7.6 Min Req = 2.1 (Truss)
Bearings X & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

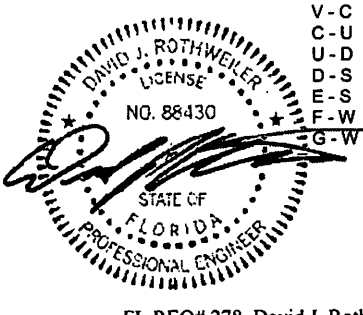
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	-609	G - H	381	-630
B - C	180	-630	H - I	1191	-3425
C - D	1255	-4020	I - J	1236	-4018
D - E	1235	-4014	J - K	1256	-4020
E - F	1189	-3428	K - L	179	-616
F - G	381	-632	L - M	134	-595

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - V	607	-132	R - Q	3700	-960
V - U	3226	-998	Q - P	3699	-960
U - T	3717	-1002	P - O	3695	-961
T - S	3718	-1001	O - N	3231	-962
S - R	3508	-801	N - M	595	-131

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - V	309	-423	W - H	970	-3190
V - C	1141	-3279	R - I	1298	-155
C - U	615	-19	R - J	359	-518
U - D	134	-625	P - J	141	-663
D - S	341	-506	O - K	649	-18
E - S	1280	-159	K - N	1145	-3301
F - W	970	-3190	N - L	308	-425
G - W	1146	-332			



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

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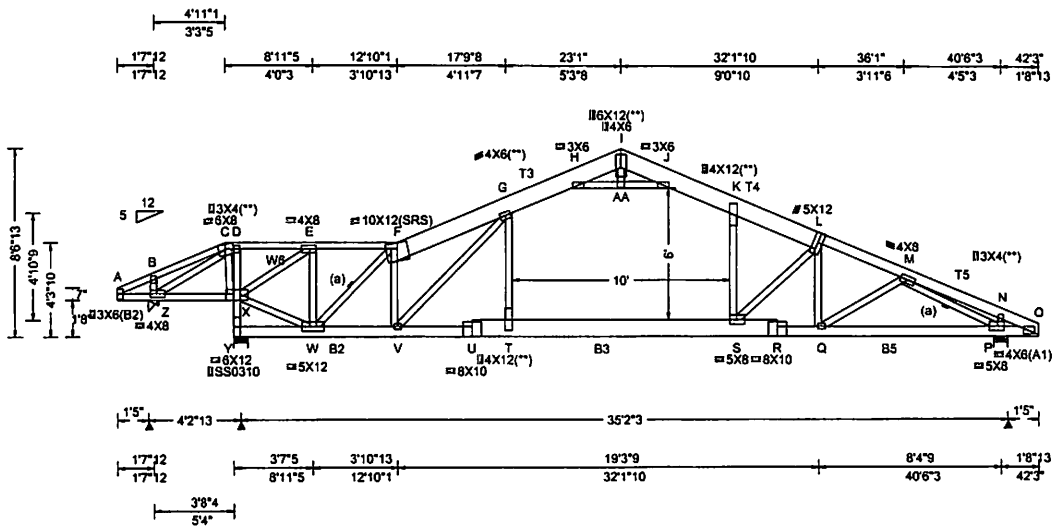
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75946 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T65
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.29647
		Truss Label: A11	/ 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.183 S 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.406 S 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.050 K - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.109 K - -
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.632
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.756
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.669
		C&C Dist a: 4.22 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Z	-	/-951	/-	/152	/263	/291
Y	3652	/-	/-	/1625	/617	/-
P	2387	/-	/-	/1165	/358	/-

Wind reactions based on MWFRS
Z Brg Wid = 5.5 Min Req = 1.5 (Truss)
Y Brg Wid = 7.6 Min Req = 5.7 (Truss)
P Brg Wid = 7.6 Min Req = 3.7 (Truss)
Bearings Z, Y, & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1904	-660	I - J	366	-571
D - E	1886	-652	J - K	1177	-3174
E - F	591	-1006	K - L	1223	-3762
F - G	1417	-3357	L - M	1272	-3849
G - H	1211	-3227	M - N	170	-556
H - I	372	-628	N - O	123	-534

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - X	782	-1633	S - R	3557	-978
W - V	2961	-958	R - Q	3556	-979
V - U	3213	-794	Q - P	3094	-970
U - T	3214	-793	P - O	541	-123
T - S	3261	-789			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Z - C	1912	-794	H - AA	1006	-2961
C - X	468	-1143	I - AA	1067	-345
X - Y	1605	-3624	AA - J	1006	-2961
X - E	1396	-3239	S - K	1282	-166
X - W	1081	-350	S - L	313	-565
E - W	1556	-443	L - Q	130	-529
E - F	912	-2737	Q - M	586	-21
V - G	52	-601	M - P	1147	-3200
G - T	1102	0	P - N	321	-435

Lumber

Top chord: 2x4 SPF #1/#2; T3,T4 2x10 SP #1; T5 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B5 2x6 SPF #1/#2; B3 2x10 SP #1;
Webs: 2x4 SPF #1/#2; W6 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 18-1-0 to 28-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Additional Notes

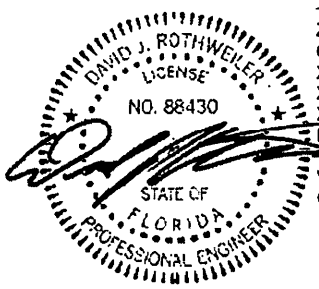
Negative reaction(s) of -951# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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.

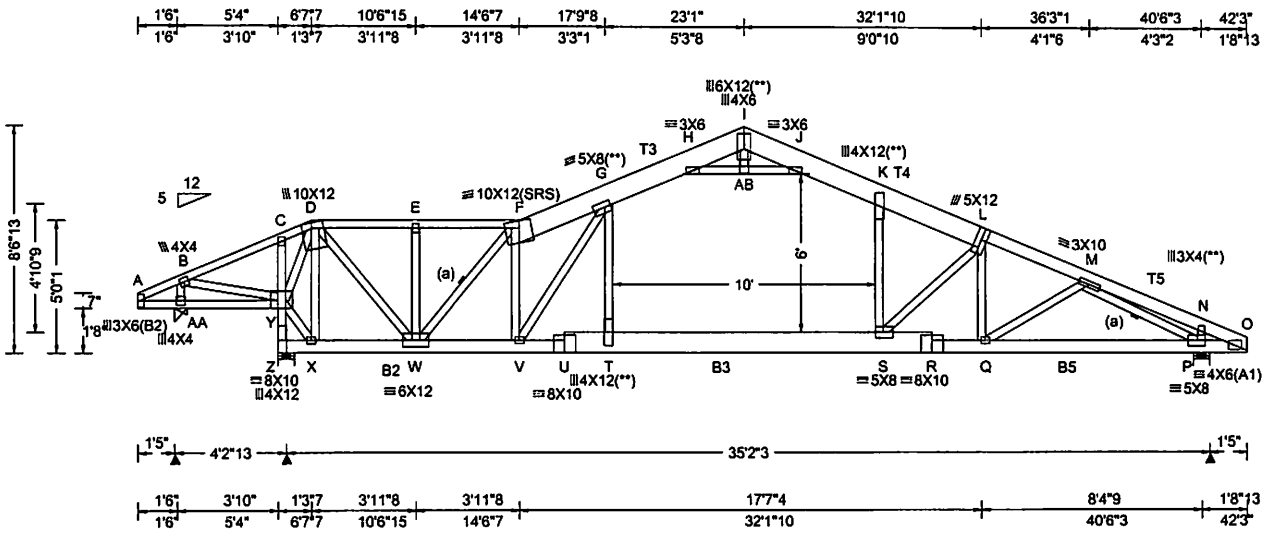


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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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: 75984 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A12	Cust: R 9419 JRef: 1XUU94190009 T56 DrwNo: 321.23.0629.32677 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.181 S	999	360	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.400 S	999	240	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	-0.054 K	-	-	
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.115 K	-	-	
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.614			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.734			
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI:	0.676			
		C&C Dist a: 4.22 ft	FT/RT/PT:10(0)/3(0)/1(0)					
		Loc. from endwall: not in 13.00 ft	Plate Type(s):					
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21				
		Wind Duration: 1.33						

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	-	/-803	/-	/116	/186	/291
Z	3525	/-	/-	/1547	/600	/-
P	2397	/-	/-	/1175	/371	/-

Wind reactions based on MWFRS
AA Brg Wid = 5.5 Min Req = 1.5 (Truss)
Z Brg Wid = 7.6 Min Req = 5.5 (Truss)
P Brg Wid = 7.6 Min Req = 3.8 (Truss)
Bearings AA, Z, & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1757	-662	I - J	382	-610
C - D	1673	-542	J - K	1223	-3209
D - E	861	-1635	K - L	1270	-3787
E - F	867	-1640	L - M	1308	-3869
F - G	1529	-3626	M - N	175	-558
G - H	1249	-3243	N - O	128	-535
H - I	379	-642			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
W - V	3179	-1036	S - R	3576	-1012
V - U	3241	-838	R - Q	3575	-1013
U - T	3243	-837	Q - P	3110	-997
T - S	3289	-833	P - O	542	-128

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- B	875	-210	H -AB	1046	-2955
B - Y	680	-1470	I -AB	1065	-359
Y - Z	1562	-3459	AB- J	1046	-2955
Y - X	278	-400	S - K	1256	-168
Y - D	1512	-3308	S - L	302	-550
D - W	2845	-1139	L - Q	143	-529
W - F	727	-2339	Q - M	591	-28
F - V	421	-329	M - P	1174	-3217
V - G	195	-439	P - N	323	-436
G - T	1282	-24			

Lumber

Top chord: 2x4 SPF #1/#2; T3,T4 2x10 SP #1; T5 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B5 2x6 SPF #1/#2; B3 2x10 SP #1;
Webs: 2x4 SPF #1/#2;

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.

Loading

Attic room loading from 18-1-0 to 28-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Additional Notes

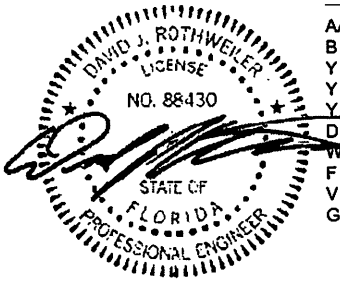
Negative reaction(s) of -803# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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

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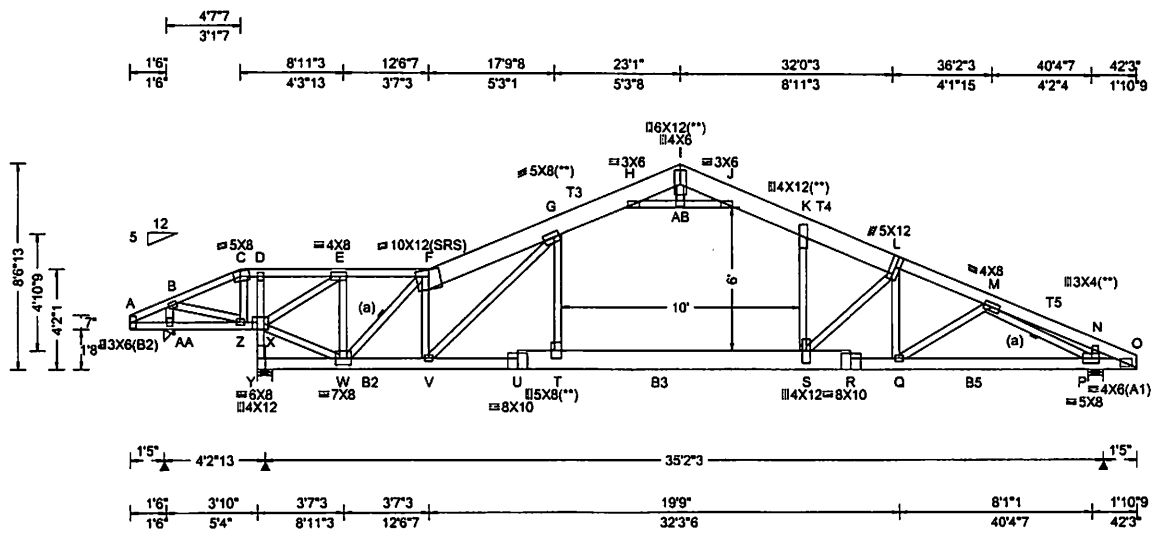
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75986 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A13	Cust: R 9419 JRef: 1XUU94190009 T23 DrwNo: 321.23.0629.35337 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 25.24 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.22 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.176	S	999	360
VERT(CL): 0.397	S	999	240
HORZ(LL): -0.046	K	-	-
HORZ(TL): 0.103	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.710
Max BC CSI: 0.743
Max Web CSI: 0.774

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	42	/-347	/-	/71	/54	/291
Y	3001	/-	/-	/1280	/547	/-
P	2448	/-	/-	/1176	/363	/-

Wind reactions based on MWFRS
AA Brg Wid = 5.5 Min Req = 1.5 (Truss)
Y Brg Wid = 7.6 Min Req = 4.7 (Truss)
P Brg Wid = 7.6 Min Req = 3.8 (Truss)
Bearings AA, Y, & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	926	-303	I - J	367	-573
C - D	860	-245	J - K	1246	-3347
D - E	855	-242	K - L	1294	-3940
E - F	759	-1529	L - M	1309	-3968
F - G	1579	-3837	M - N	182	-585
G - H	1257	-3375	N - O	134	-562
H - I	364	-611			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - X	464	-831	S - R	3672	-1012
W - V	3390	-1143	R - Q	3671	-1013
V - U	3388	-864	Q - P	3202	-1001
U - T	3389	-863	P - O	569	-134
T - S	3435	-858			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- B	507	-26	H -AB	1081	-3163
B - Z	377	-883	I -AB	1137	-371
D - X	408	-692	AB- J	1081	-3163
X - Y	1317	-2969	S - K	1298	-171
X - E	1130	-2660	S - L	327	-508
W	1664	-595	L - Q	155	-600
E - W	1299	-335	Q - M	599	-25
W - F	886	-2668	M - P	1179	-3292
V - G	272	-446	P - N	327	-445
G - T	1050	0			

Lumber

Top chord: 2x4 SPF #1/#2; T3,T4 2x10 SP #1; T5 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B5 2x6 SPF #1/#2; B3 2x10 SP #1;
Webs: 2x4 SPF #1/#2;

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.

Loading

Attic room loading from 18-1-0 to 28-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Additional Notes

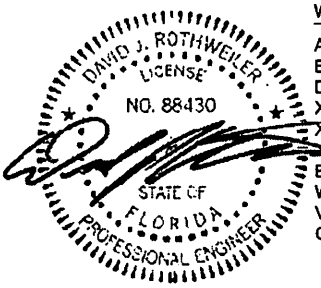
Negative reaction(s) of -347# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

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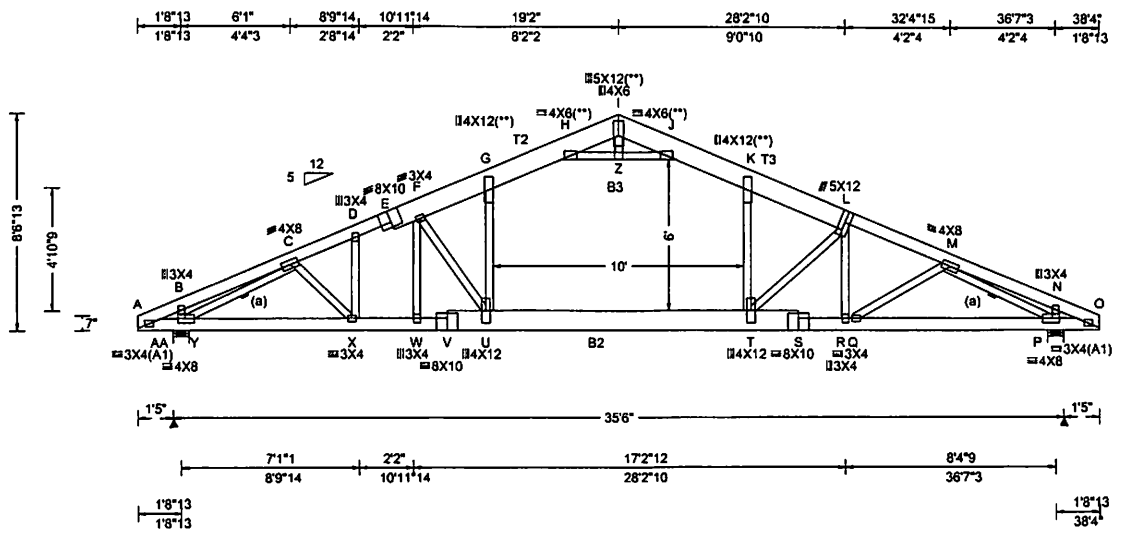
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76145 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A14	Cust: R 9419 JRef: 1XUU94190009 T10 DrwNo: 321.23.0629.37877 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.169 U 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.373 T 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.054 G - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.127 G - -
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.619
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.711
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.533
		C&C Dist a: 3.83 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
		GCpi: 0.18	WAVE	
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	2478	/-	/-	/1133	/634	/269
P	2478	/-	/-	/1133	/634	/-

Wind reactions based on MWFRS
AA Brg Wid = 7.6 Min Req = 2.1 (Truss)
P Brg Wid = 7.6 Min Req = 2.1 (Truss)
Bearings AA & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-599	H - I	384	-639
B - C	226	-625	I - J	385	-648
C - D	1229	-3937	J - K	1187	-3430
D - E	1274	-3957	K - L	1234	-4017
E - F	1281	-3922	L - M	1256	-4021
F - G	1259	-4069	M - N	179	-616
G - H	1187	-3425	N - O	134	-595

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Y	606	-173	T - S	3700	-960
Y - X	3261	-984	S - R	3699	-961
X - W	3641	-987	R - Q	3695	-961
W - V	3665	-986	Q - P	3232	-962
V - U	3667	-986	P - O	595	-131
U - T	3509	-798			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Y	322	-468	Z - J	962	-3174
Y - C	1079	-3326	T - K	1281	-157
C - X	679	-25	T - L	354	-513
F - W	140	-687	R - L	140	-658
F - U	445	-601	Q - M	649	-18
G - U	1478	-237	M - P	1145	-3302
G - Z	962	-3174	P - N	308	-425
I - Z	1141	-329			

Lumber

Top chord: 2x6 SPF #1/#2; T2,T3 2x10 SP #1;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x10 SP #1;
B3 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

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

Loading

Attic room loading from 14-2-0 to 24-2-0: Live Load: 40 PSF, Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

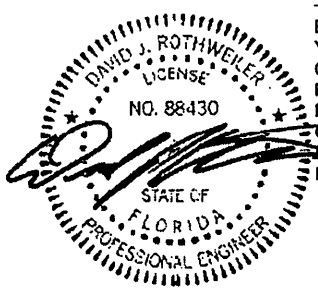
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11/17/2023

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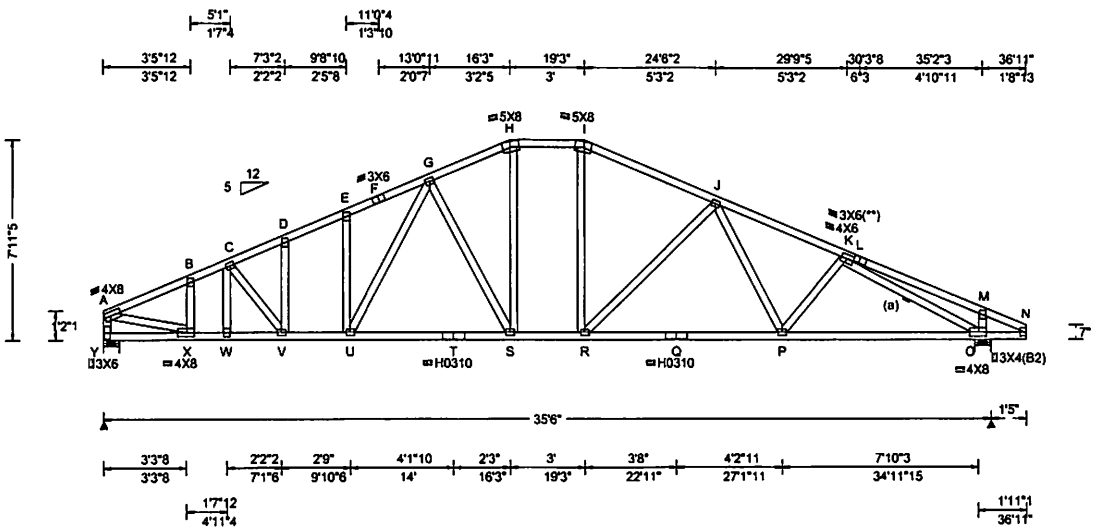
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120378 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A15	Cust: R 9419 JRef: 1XUU94190009 T16 DrwNo: 321.23.0629.40113 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 24.93 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.69 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	D	999	360
VERT(CL): 0.323	R	999	240
HORZ(LL): 0.049	O	-	-
HORZ(TL): 0.119	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.461
Max BC CSI: 0.724
Max Web CSI: 0.590

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	1618	/-	/-	/980	/359	/251
O	1799	/-	/-	/1145	/385	/-

Wind reactions based on MWFRS
Y Brg Wid = 7.6 Min Req = 2.5 (Truss)
O Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearings Y & O are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	1238	-2485	F - G	1522	-2550
B - C	1357	-2548	G - H	1313	-2053
C - D	1385	-2571	H - I	1253	-1853
D - E	1423	-2552	I - J	1287	-2089
E - F	1514	-2588	J - K	1380	-2520

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
X - W	2279	-1114	S - R	1853	-799
W - V	2282	-1115	R - Q	2205	-1033
V - U	2351	-1120	Q - P	2205	-1033
U - T	2104	-992	P - O	2229	-1079
T - S	2104	-992			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	836	-1613	H - S	561	-288
A - X	2322	-1129	I - R	477	-194
X - B	273	-377	R - J	373	-571
U - G	582	-285	K - O	1309	-2492
G - S	420	-638			

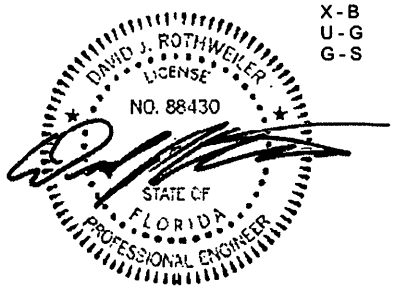
Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

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

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

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

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.

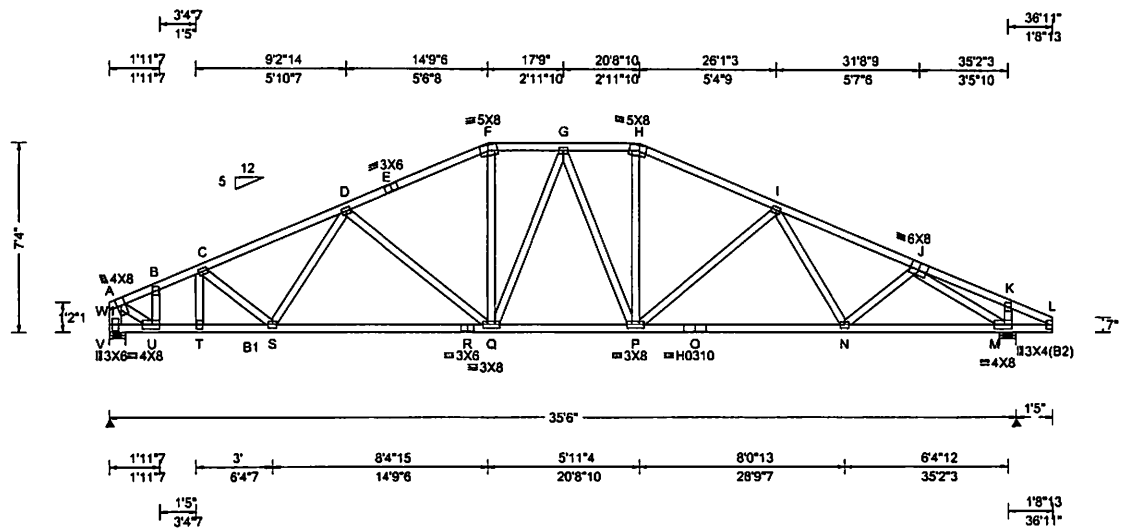


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 120391 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A16	Cust: R 9419 JRef: 1XUU94190009 T3 DrwNo: 321.23.0629.42257 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.126 Q 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.291 Q 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.050 M - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.116 M - -
NCBCLL:	10.00	Mean Height: 24.62 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.579
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.765
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.818
		C&C Dist a: 3.69 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
		GCpi: 0.18	WAVE, HS	
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	1618	/-	/-	/987	/382	/231
M	1797	/-	/-	/1152	/407	/-

Wind reactions based on MWFRS
V Brg Wid = 7.6 Min Req = 2.5 (Truss)
M Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearings V & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	1171	-2171	F - G	1420	-1991
B - C	1313	-2336	G - H	1417	-1973
C - D	1489	-2634	H - I	1446	-2210
D - E	1433	-2234	I - J	1431	-2493
E - F	1448	-2183			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	2070	-1111	Q - P	2011	-1032
T - S	2086	-1120	P - O	2270	-1199
S - R	2374	-1288	O - N	2270	-1199
R - Q	2374	-1288	N - M	1978	-1047

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - V	989	-1818	D - Q	359	-508
A - U	2321	-1241	F - Q	506	-270
U - B	311	-491	P - H	498	-265
T - C	232	-437	P - I	301	-404
C - S	403	-133	J - M	1384	-2474

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF #1/#2;

Plating Notes

All plates are 3X4 except as noted.

Purlins

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

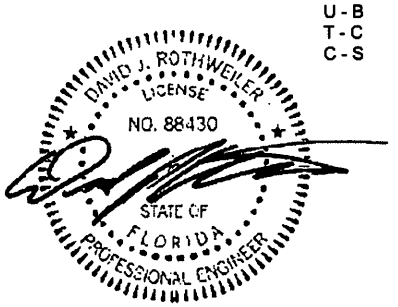
Wind

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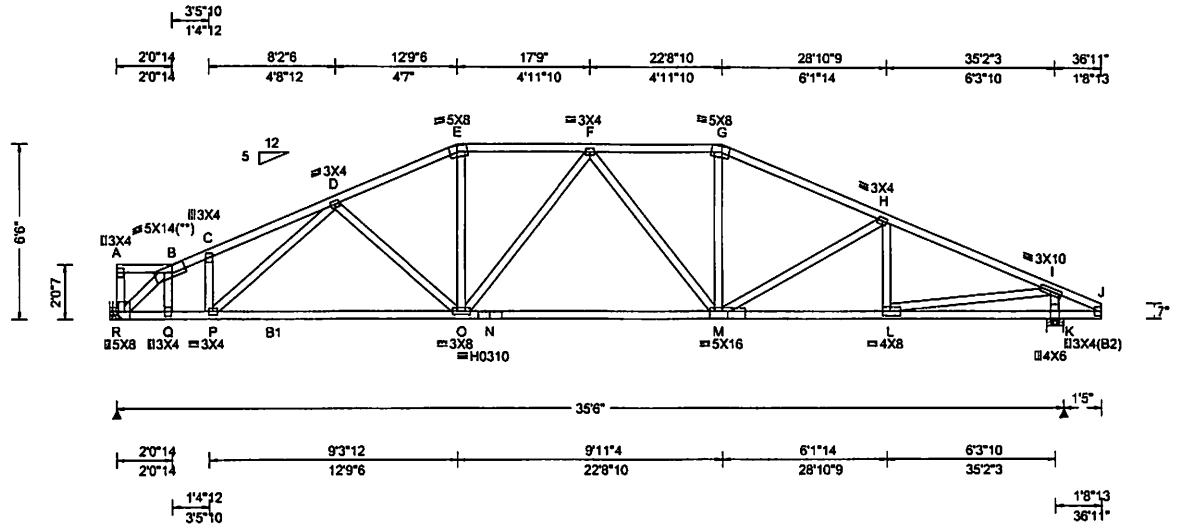
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120397 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A17	Cust: R 9419 JRef: 1XUU94190009 T9 DrwNo: 321.23.0629.44220 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.135 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.312 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.042 K - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.098 K - -
NCBCLL: 10.00	Mean Height: 24.21 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.648
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.739
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.853
	C&C Dist a: 3.69 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1625	/-	/-	/967	/418	/211
K	1792	/-	/-	/1155	/440	/-

Wind reactions based on MWFRS
R Brg Wid = - Min Req = -
K Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearing K 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	1408	-2336	F - G	1633	-2152
C - D	1472	-2309	G - H	1668	-2409
D - E	1688	-2429	H - I	1630	-2641
E - F	1633	-2188			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2159	-1246	O - N	2310	-1425
Q - P	2100	-1213	N - M	2310	-1425
P - O	2392	-1460	M - L	2373	-1391

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	1699	-2817	M - G	524	-261
Q - B	728	-405	L - I	2082	-1211
P - D	350	-432	I - K	1108	-1673
E - O	588	-316			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B1 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Plating Notes

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

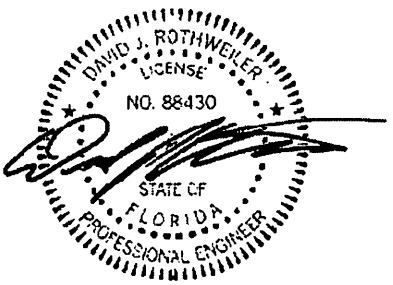
Wind

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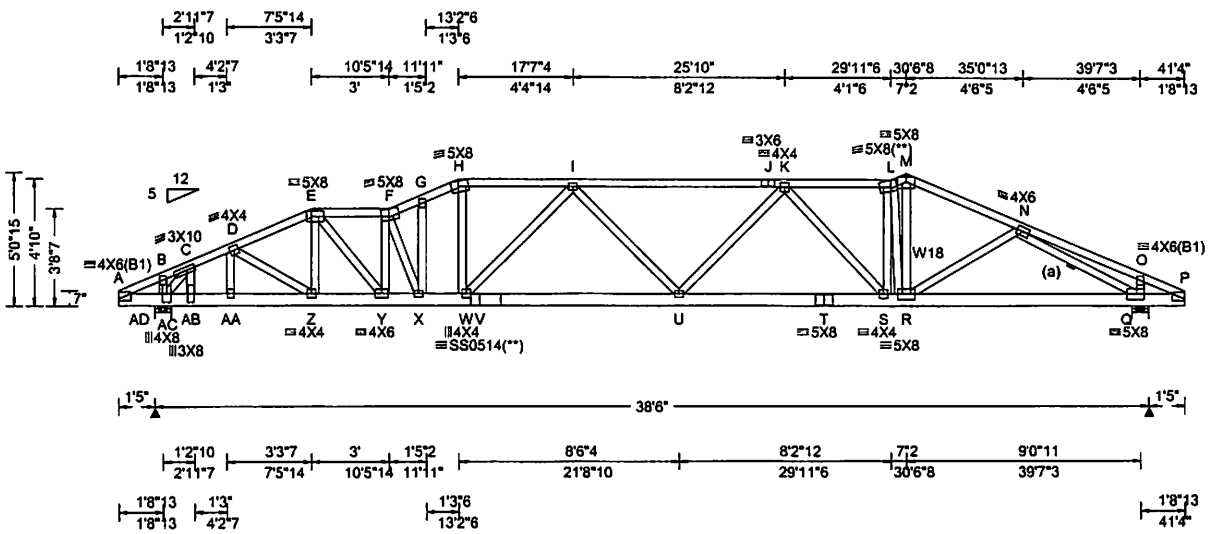
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120408 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A18	Cust: R 9419 JRef: 1XUU94190009 T21 DrwNo: 321.23.0629.46887 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.152	U	999	360
VERT(CL): 0.352	U	999	240
HORZ(LL): 0.040	E	-	-
HORZ(TL): 0.092	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.545
Max BC CSI: 0.329
Max Web CSI: 0.589

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AD	1914	/-	/-	/1229	/551	/158
Q	1914	/-	/-	/1229	/542	/-

Wind reactions based on MWFRS
AD Brg Wid = 7.6 Min Req = 1.6 (Truss)
Q Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings AD & 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.
C - D	1466	-1928	I - J	2783	-3569
D - E	2123	-2747	J - K	2783	-3569
E - F	2614	-3304	K - L	2186	-2775
F - G	2699	-3433	L - M	2042	-2614
G - H	2635	-3321	M - N	2109	-2817
H - I	2560	-3170			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AC-AB	1516	-1158	W - V	3599	-2697
AB-AA	1698	-1288	V - U	3599	-2697
AA- Z	1734	-1317	U - T	3401	-2463
Z - Y	2513	-1859	T - S	3401	-2463
Y - X	3372	-2504	S - R	2732	-1859
X - W	3107	-2260	R - Q	2370	-1660

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC- C	1810	-2546	H - W	958	-692
C -AB	1198	-836	W - I	677	-736
AA- D	669	-849	K - S	956	-967
D - Z	965	-688	S - L	670	-602
E - Y	1256	-959	L - R	1163	-1407
Y - F	644	-822	M - R	1515	-1107
F - X	744	-806	N - Q	1899	-2561

Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W18 2x4 SP 2400f-2.0E;

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.

Purlins

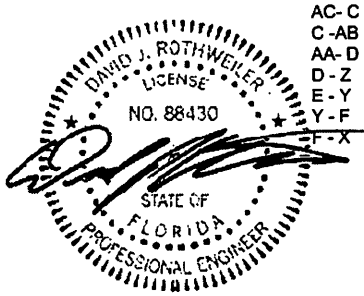
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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.



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

11/17/2023

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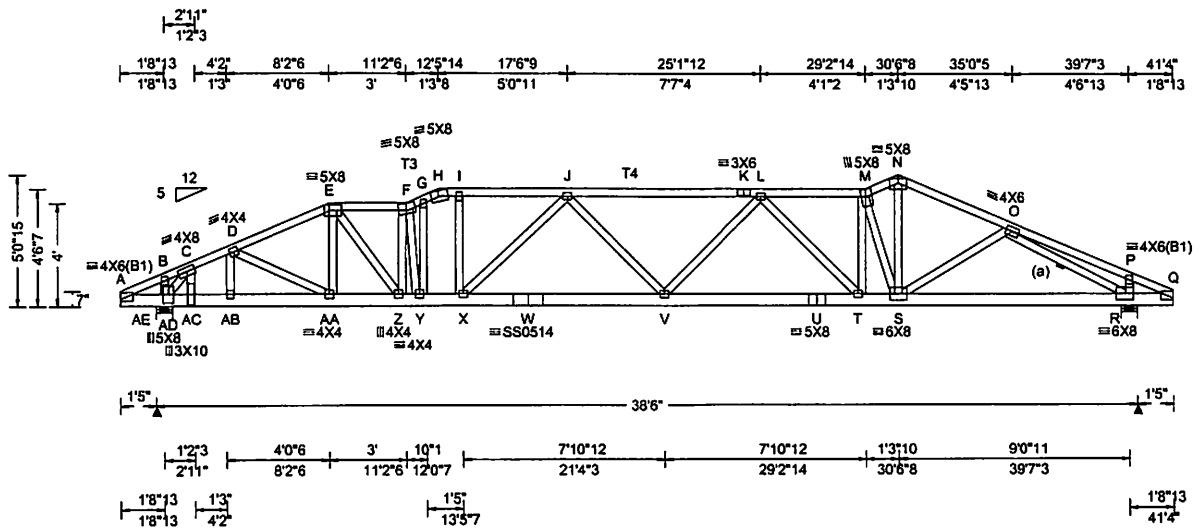
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120421 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T6
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.49430
		Truss Label: A19	/ 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.212 V 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.491 V 918 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.049 R - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.115 R - -
NCBCLL:	10.00	Mean Height: 23.50 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.790
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.831
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.587
		C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AE	1914	/-	/-	/1225	/555	/158
R	1914	/-	/-	/1224	/535	/-

Wind reactions based on MWFRS
AE Brg Wid = 7.6 Min Req = 3.0 (Truss)
R Brg Wid = 7.6 Min Req = 3.0 (Truss)
Bearings AE & R 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	1452	-1936	I - J	2610	-3262
D - E	2148	-2797	J - K	3001	-3852
E - F	2571	-3238	K - L	3001	-3852
F - G	2838	-3572	L - M	2450	-3121
G - H	2590	-3267	M - N	2121	-2713
H - I	2601	-3247	N - O	2108	-2800

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AD-AC	1509	-1125	X - W	3832	-2861
AC-AB	1713	-1272	W - V	3832	-2861
AB-AA	1748	-1301	V - U	3703	-2718
AA- Z	2545	-1857	U - T	3703	-2718
Z - Y	3325	-2445	T - S	3073	-2147
Y - X	3242	-2360	S - R	2370	-1666

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AD- C	1890	-2691	I - X	586	-395
C -AC	1325	-934	X - J	788	-915
AB- D	663	-819	L - T	869	-868
D -AA	932	-683	T - M	676	-594
E - Z	1160	-926	M - S	1481	-1831
Z - F	905	-1111	N - S	1780	-1312
Y	472	-548	O - R	1940	-2603
Y - G	698	-608			

Lumber

Top chord: 2x4 SPF #1/#2; T3, T4 2x4 SP 2400f-2.0E;
Bot chord: 2x6 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.

Purlins

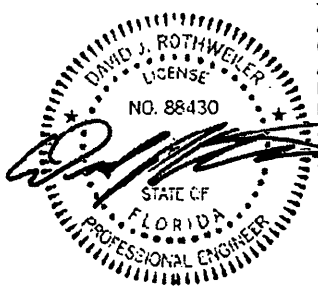
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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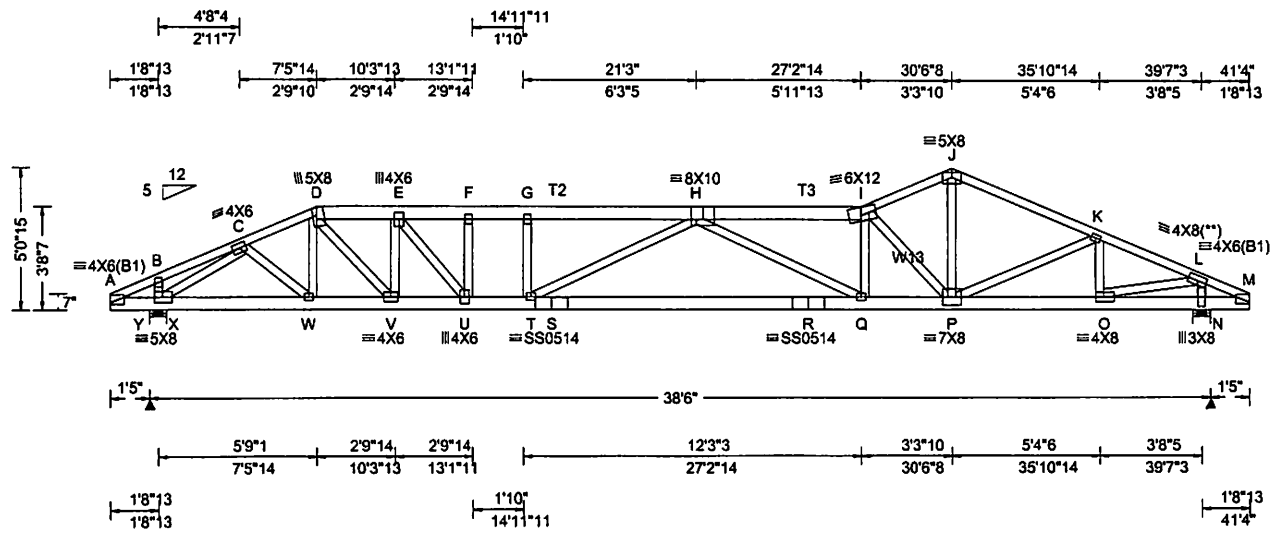
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120425 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** A20	Cust: R 9419 JRef: 1XUU94190009 T38 DrwNo: 321.23.0629.51767 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.213	H	999	360
VERT(CL): 0.494	H	915	240
HORZ(LL): 0.040	N	-	-
HORZ(TL): 0.093	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.294
Max BC CSI: 0.389
Max Web CSI: 0.652

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	1921	/-	/-	/1213	/622	/158
N	1906	/-	/-	/1200	/541	/-

Wind reactions based on MWFRS
Y Brg Wid = 7.6 Min Req = 1.6 (Truss)
N Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings Y & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	2095	-2712	H - I	3371	-4451
D - E	2696	-3396	I - J	2178	-2826
E - F	3460	-4433	J - K	2150	-2856
F - G	3487	-4470	K - L	1777	-2546
G - H	3485	-4479			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
X - W	2047	-1543	S - R	5019	-3830
W - V	2512	-1829	R - Q	5019	-3830
V - U	3504	-2595	Q - P	4449	-3174
U - T	4470	-3292	P - O	2357	-1598
T - S	5019	-3830			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
X - C	1809	-2439	H - Q	880	-654
C - W	582	-413	I - Q	603	-330
D - V	1401	-1144	I - P	1996	-2651
V - E	1045	-1221	J - P	1816	-1334
E - U	1643	-1192	K - O	496	-554
U - F	603	-831	O - L	2060	-1376
T - H	615	-778	L - N	1132	-1682

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2,
T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W13 2x4 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

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

Purlins

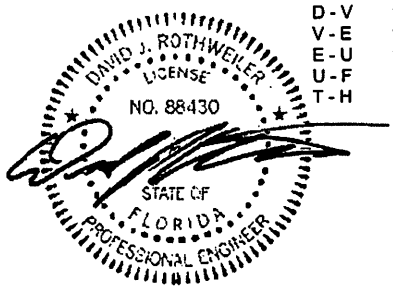
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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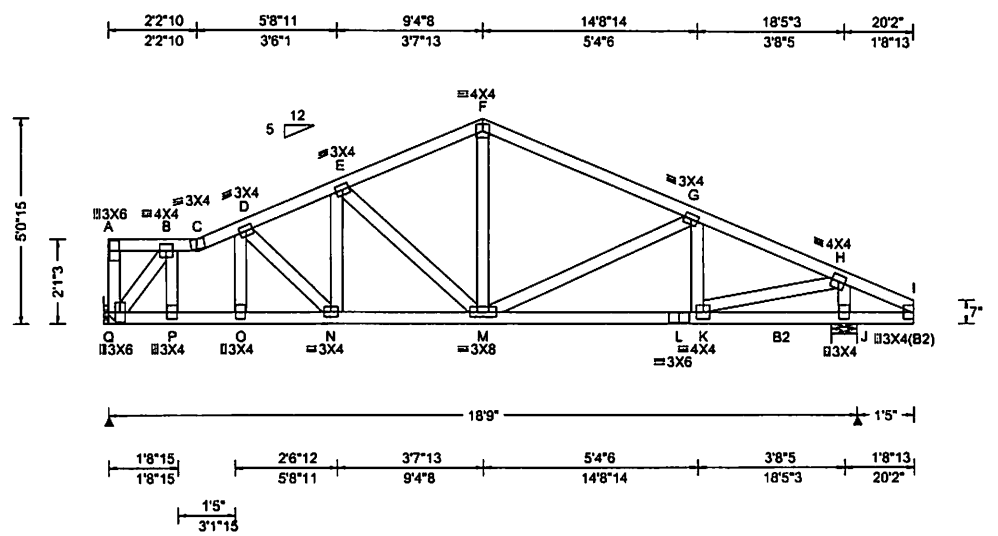
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76263 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T35
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.53620
		Truss Label: B01	/ 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.038 N 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.088 N 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 J - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.018 J - -
NCBCLL: 10.00	Mean Height: 23.50 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.423
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.277
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.228
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
	GCpi: 0.18	WAVE	
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	848	/-	/-	/490	/231	/156
J	1020	/-	/-	/655	/230	/-

Wind reactions based on MWFRS
Q Brg Wid = - Min Req = -
J Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearing J 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	600	-907	E - F	692	-960
C - D	653	-990	F - G	668	-993
D - E	769	-1154	G - H	693	-1136

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	876	-488	N - M	1046	-546
P - O	911	-503	M - L	1028	-554
O - N	923	-511	L - K	1028	-554

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - B	936	-1399	K - H	1009	-565
B - P	440	-195	H - J	627	-941
F - M	401	-199			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

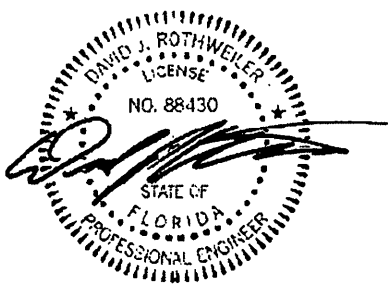
Wind

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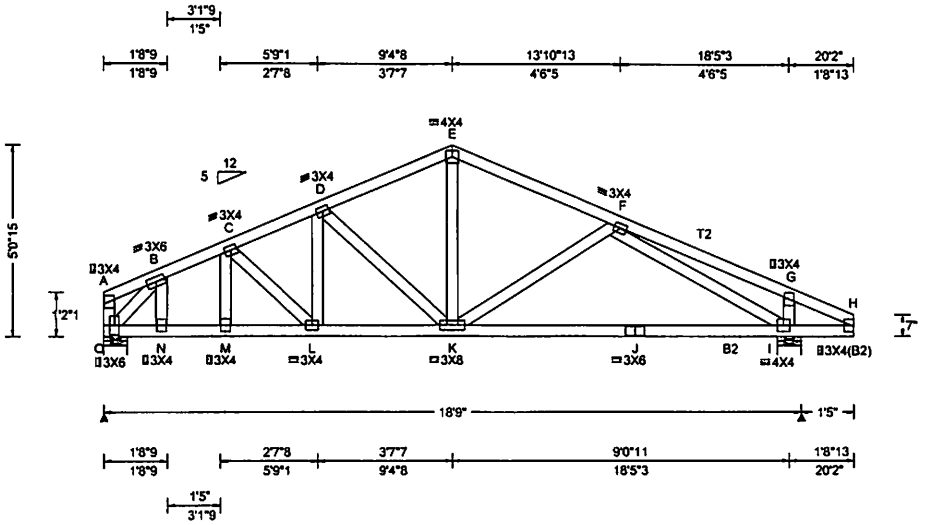
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76265 SPEC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B02	Cust: R 9419 JRef: 1XUU94190009 T2 DrwNo: 321.23.0629.55410 / FK 11/17/2023	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#	
VERT(LL):	0.024	K	999	360
VERT(CL):	0.056	D	999	240
HORZ(LL):	0.010	H	-	-
HORZ(TL):	0.022	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.559
Max Web CSI: 0.574

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	841	/-	/-	/491	/199	/145
I	1029	/-	/-	/656	/233	/-

Wind reactions based on MWFRS
O Brg Wid = 7.6 Min Req = 1.5 (Truss)
I Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings O & I 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	673	-1082	D - E	665	-956
C - D	748	-1128	E - F	646	-977

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	905	-484	L - K	1027	-528
N - M	940	-498	K - J	964	-540
M - L	946	-503	J - I	964	-540

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - B	748	-1307	F - I	773	-1093
E - K	430	-213			

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2 2x4 SPF #1/#2;
Bot chord: 2x4 SP 2400f-2.0E; B2 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

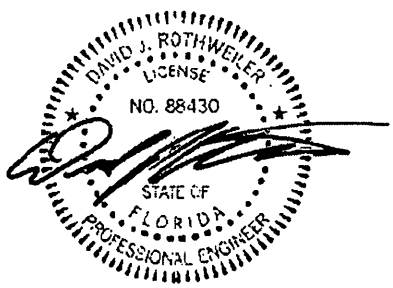
Wind

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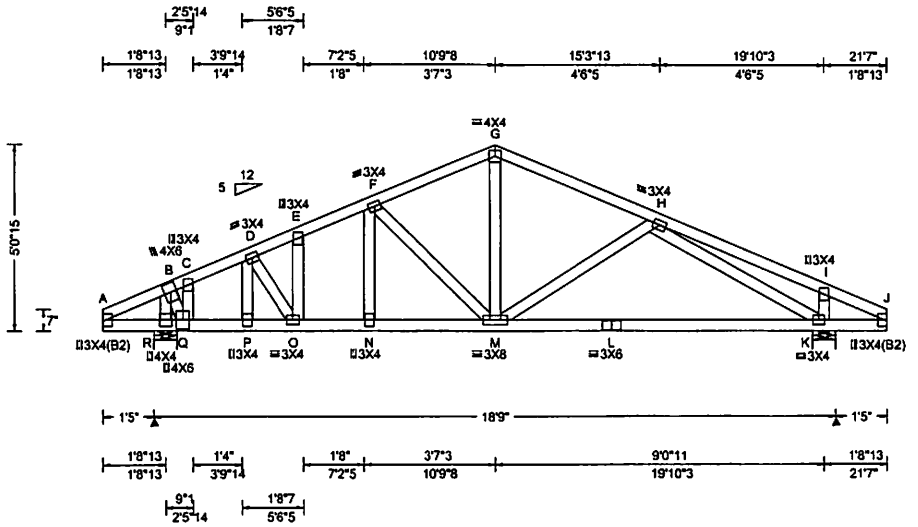
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76267 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B03	Cust: R 9419 JRef: 1XUU94190009 T57 DrwNo: 321.23.0629.57350 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.035	F	999	360
VERT(CL): 0.082	F	999	240
HORZ(LL): 0.011	K	-	-
HORZ(TL): 0.025	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.395
Max BC CSI: 0.568
Max Web CSI: 0.553

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	994	/-	/-	/639	/227	/139
K	1010	/-	/-	/648	/231	/-

Wind reactions based on MWFRS
R Brg Wid = 7.6 Min Req = 1.6 (Truss)
K Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings R & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	316	-521	E - F	674	-1036
C - D	487	-807	F - G	612	-904
D - E	601	-966	G - H	601	-931

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	647	-334	N - M	932	-459
P - O	661	-342	M - L	931	-497
O - N	932	-459	L - K	931	-497

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - B	711	-1226	D - O	590	-264
B - Q	1292	-691	G - M	400	-195
Q - C	394	-670	H - K	736	-1054

Lumber

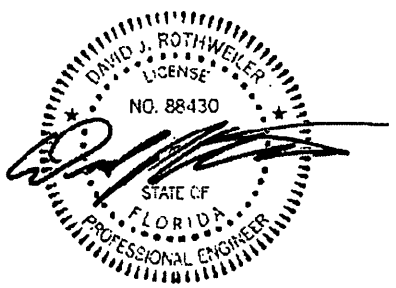
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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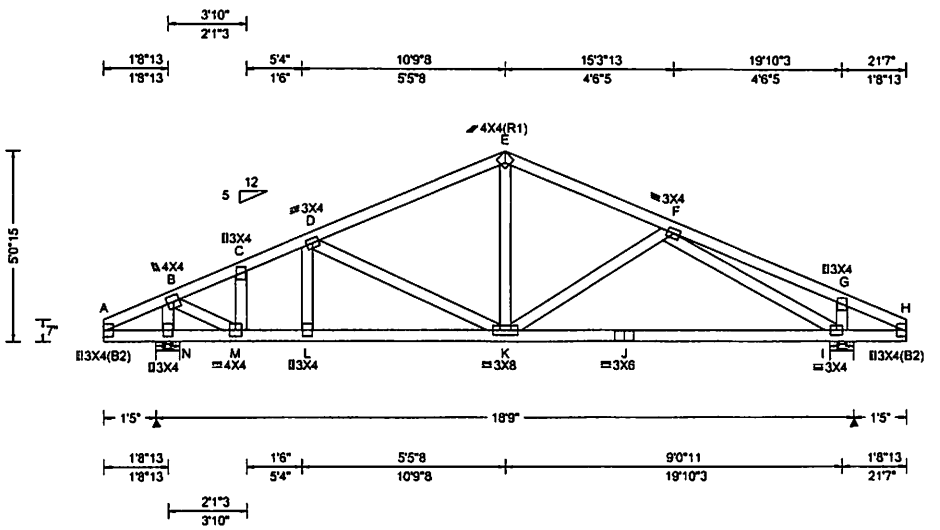
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76269 COMN	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T66
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0629.59010
		Truss Label: B04	/ FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.031	D	999	360
VERT(CL): 0.073	D	999	240
HORZ(LL): 0.010	I	-	-
HORZ(TL): 0.024	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.347
Max BC CSI: 0.638
Max Web CSI: 0.553

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	994	/-	/-	/639	/227	/139
I	1010	/-	/-	/648	/231	/-

Wind reactions based on MWFRS
N Brg Wid = 7.6 Min Req = 1.6 (Truss)
I Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings N & I 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	562	-964	D - E	601	-947
C - D	643	-1037	E - F	611	-943

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	911	-476	K - J	928	-493
L - K	915	-480	J - I	928	-493

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	645	-1045	F - I	730	-1053
B - M	1081	-588			

Lumber

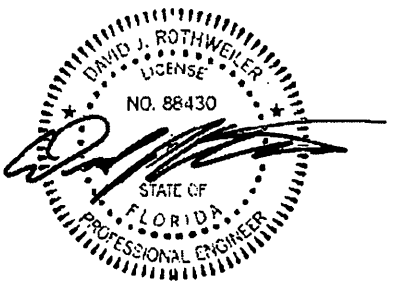
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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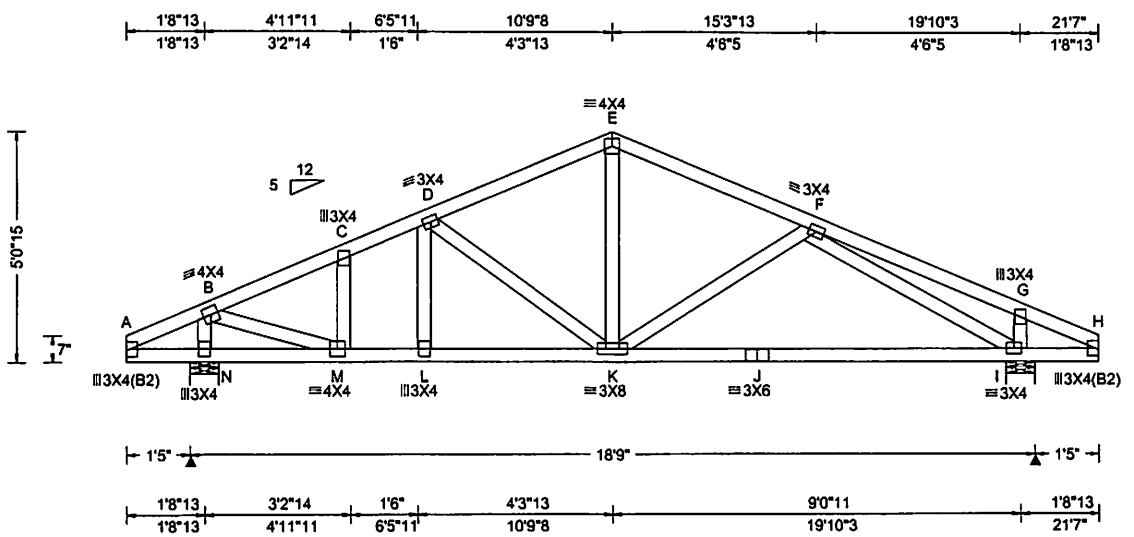
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76271 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B05	Cust: R 9419 JRef: 1XUU94190009 T67 DrwNo: 321.23.0630.00737 / FK 11/17/2023



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**	**▲Maximum Reactions (lbs)**
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity / Non-Gravity
TCDL:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.025 K 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.059 K 999 240	N 994 /- /- /639 /227 /139
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.010 H - -	I 1010 /- /- /648 /231 /-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.023 H - -	Wind reactions based on MWFRS
NCBCLL:	10.00	Mean Height: 23.50 ft	Building Code:	Creep Factor: 2.0	N Brg Wid = 7.6 Min Req = 1.6 (Truss)
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.208	I Brg Wid = 7.6 Min Req = 1.6 (Truss)
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.614	Bearings N & I are a rigid surface.
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.553	Members not listed have forces less than 375#
		C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)		**Maximum Top Chord Forces Per Ply (lbs)**
		Loc. from endwall: not in 9.00 ft	Plate Type(s):		Chords Tens. Comp. Chords Tens. Comp.
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21	B - C 595 -1040 D - E 606 -919
		Wind Duration: 1.33			C - D 673 -1047 E - F 604 -935

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.

Left and right cantilevers are exposed to wind

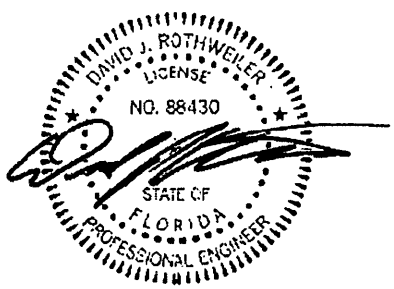
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	934	-472	K - J	930	-496
L - K	935	-473	J - I	930	-496

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	602	-944	E - K	384	-163
B - M	973	-510	F - I	734	-1053



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

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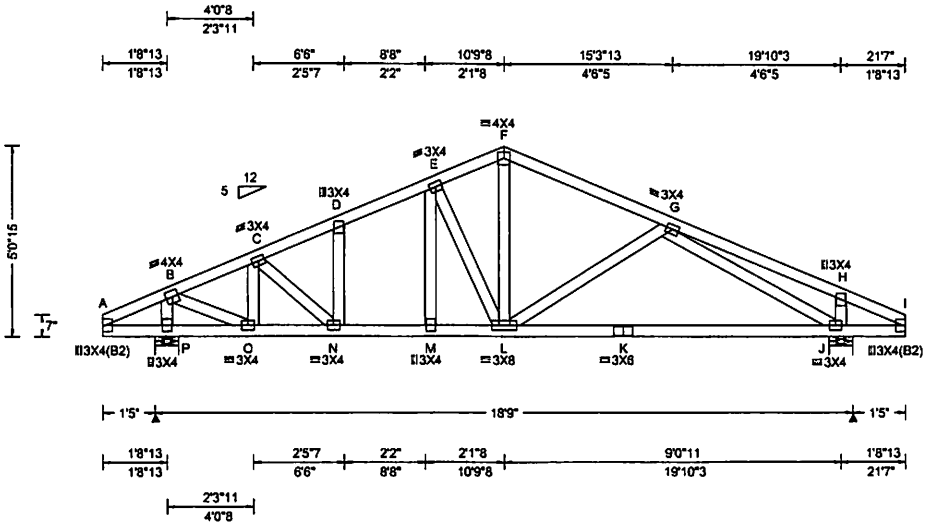
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76273 COMN FROM:	Ply: 1 Qty: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: B06	Cust: R 9419 JRef: 1XUU94190009 T69 DrwNo: 321.23.0630.02533 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.032	D	999	360
VERT(CL): 0.076	D	999	240
HORZ(LL): 0.016	D	-	-
HORZ(TL): 0.040	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.220
Max BC CSI: 0.563
Max Web CSI: 0.555

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	994	/-	/-	/639	/227	/139
J	1010	/-	/-	/648	/231	/-

Wind reactions based on MWFRS
P Brg Wid = 7.6 Min Req = 1.6 (Truss)
J Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings P & 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	527	-894	E - F	630	-887
C - D	618	-1018	F - G	596	-929
D - E	671	-997			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	831	-435	L - K	933	-497
N - M	903	-425	K - J	933	-497
M - L	902	-422			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - B	584	-926	F - L	445	-276
B - O	864	-469	G - J	735	-1057

Lumber

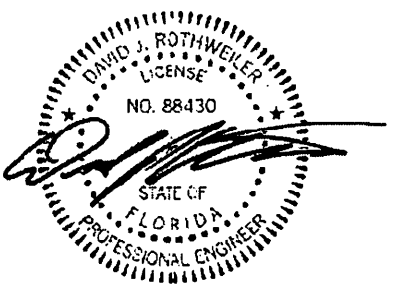
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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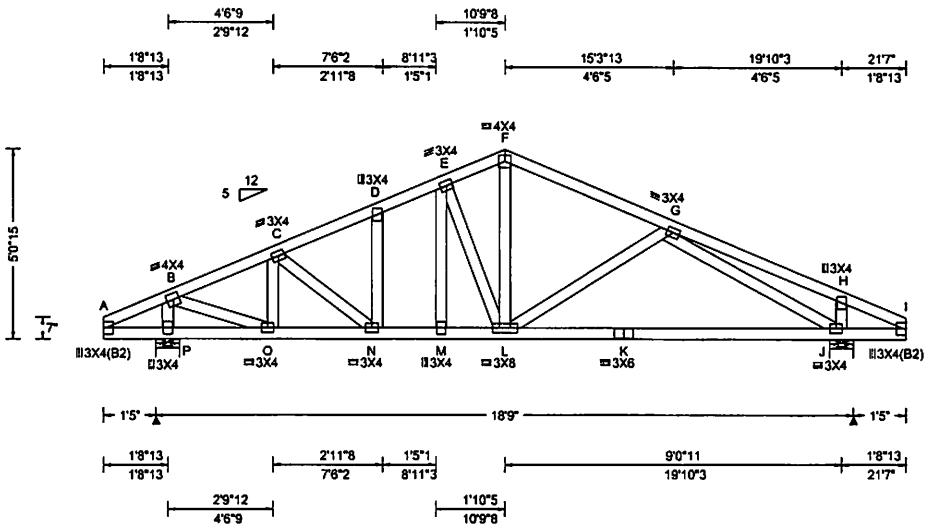
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76275 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B07		Cust: R 9419 JRef: 1XUU94190009 T5 DrwNo: 321.23.0630.04470 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.034 D 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.080 D 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 D - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.036 D - -
NCBCLL:	10.00	Mean Height: 23.50 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.219
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.560
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.555
		C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

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.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	994	/-	/-	/639	/227	/139
J	1010	/-	/-	/648	/231	/-

Wind reactions based on MWFRS
P Brg Wid = 7.6 Min Req = 1.6 (Truss)
J Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings P & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

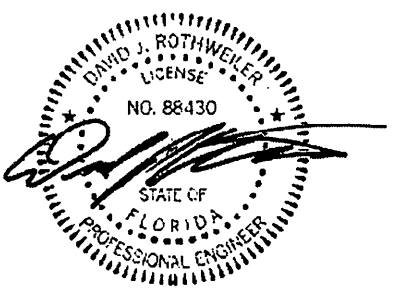
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	573	-982	E - F	631	-884
C - D	632	-1018	F - G	597	-929
D - E	672	-966			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	898	-468	L - K	933	-497
N - M	893	-412	K - J	933	-497
M - L	891	-409			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - B	590	-926	F - L	455	-281
B - O	911	-491	G - J	735	-1058



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

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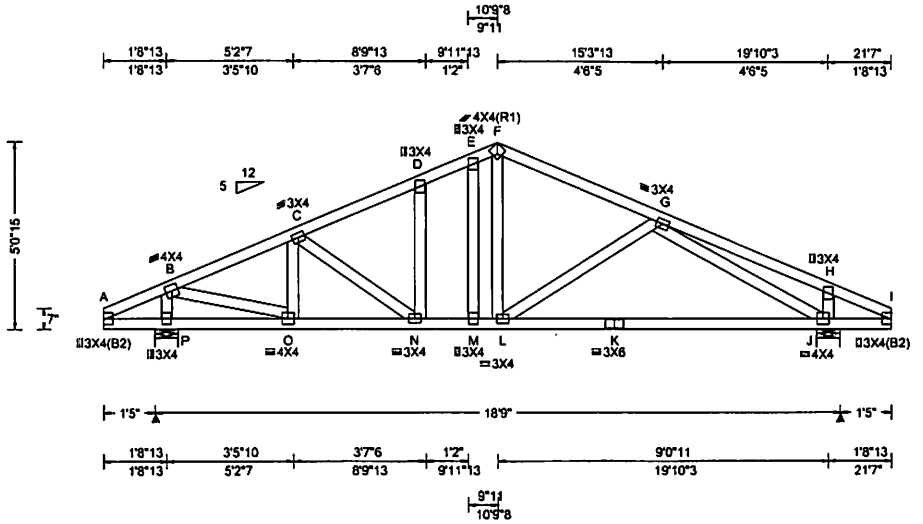
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76277 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B08	Cust: R 9419 JRef: 1XUU94190009 T70 DrwNo: 321.23.0630.06323 / FK 11/17/2023



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.059	D	999	360
VERT(CL): 0.143	D	999	240
HORZ(LL): 0.027	D	-	-
HORZ(TL): 0.068	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.338
Max BC CSI: 0.577
Max Web CSI: 0.570

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	994	/-	/-	/639	/227	/139
J	1010	/-	/-	/648	/231	/-

Wind reactions based on MWFRS
P Brg Wid = 7.6 Min Req = 1.6 (Truss)
J Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings P & 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	630	-1072	E - F	599	-836
C - D	601	-960	F - G	631	-960
D - E	623	-871			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	965	-508	L - K	933	-496
N - M	821	-329	K - J	933	-496
M - L	821	-329			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - B	605	-929	F - L	426	-83
B - O	963	-524	G - J	758	-1086

Lumber

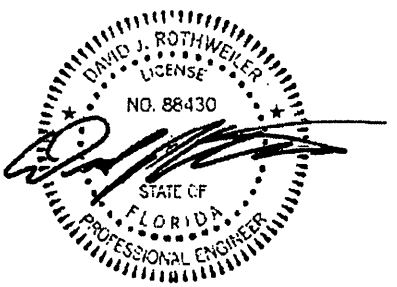
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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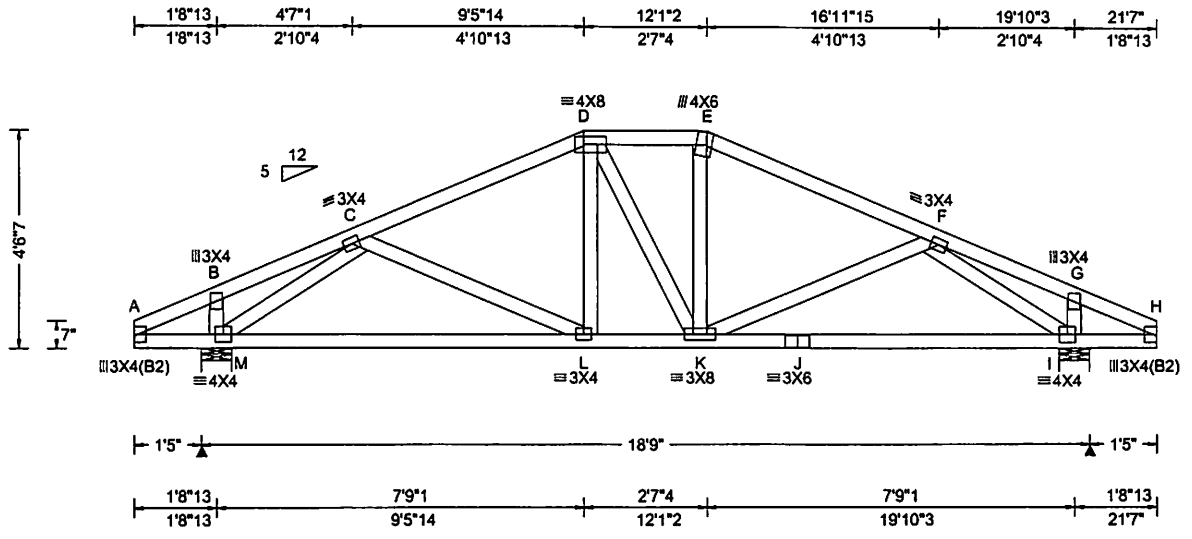
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76279 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B09	Cust: R 9419 JRef: 1XUU94190009 T20 / DrwNo: 320.23.1605.57431 / PPH 11/16/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.23 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.020 K	999	360
VERT(CL):	0.046 L	999	240
HORZ(LL):	0.010 I	-	-
HORZ(TL):	0.024 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.319
Max BC CSI: 0.451
Max Web CSI: 0.280

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	1002	/-	/-	/653	/502	/122
I	1002	/-	/-	/653	/502	/-

Wind reactions based on MWFRS
M Brg Wid = 7.6 Min Req = 1.6 (Truss)
I Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings M & I 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	761	-998	E - F	760	-997
D - E	774	-857			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	843	-581	K - J	843	-564
L - K	854	-500	J - I	843	-564

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	894	-1114	F - I	896	-1111

Lumber

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

Purlins

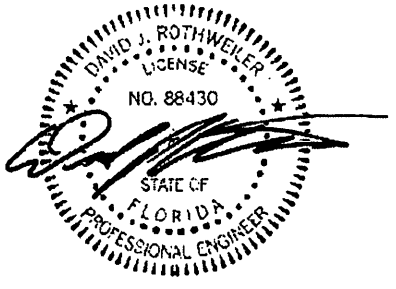
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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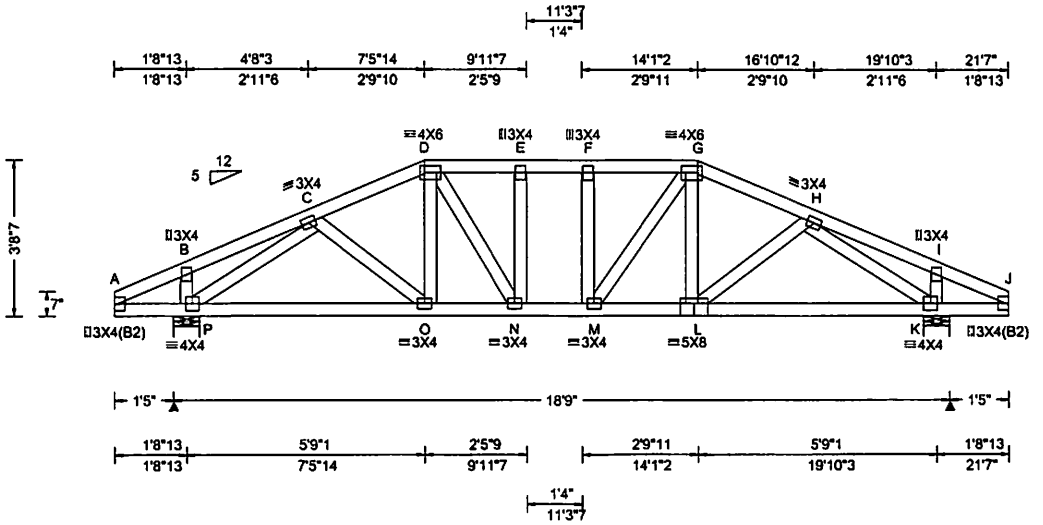
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76285 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B10	Cust: R 9419 JRef: 1XUU94190009 T27 DrwNo: 321.23.0630.08073 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.81 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	F	999	360
VERT(CL): 0.054	F	999	240
HORZ(LL): 0.011	K	-	-
HORZ(TL): 0.025	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.180
Max BC CSI: 0.294
Max Web CSI: 0.286

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1002	/-	/-	/659	/495	/97
K	1002	/-	/-	/659	/495	/-

Wind reactions based on MWFRS
P Brg Wid = 7.6 Min Req = 1.6 (Truss)
K Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings P & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	991	-1033	F - G	1099	-1028
D - E	1101	-1028	G - H	994	-1034
E - F	1110	-1034			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	823	-697	M - L	917	-729
O - N	915	-742	L - K	822	-680
N - M	1034	-893			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	972	-1107	H - K	973	-1106

Lumber

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

Purlins

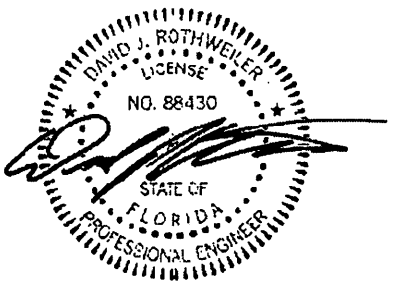
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

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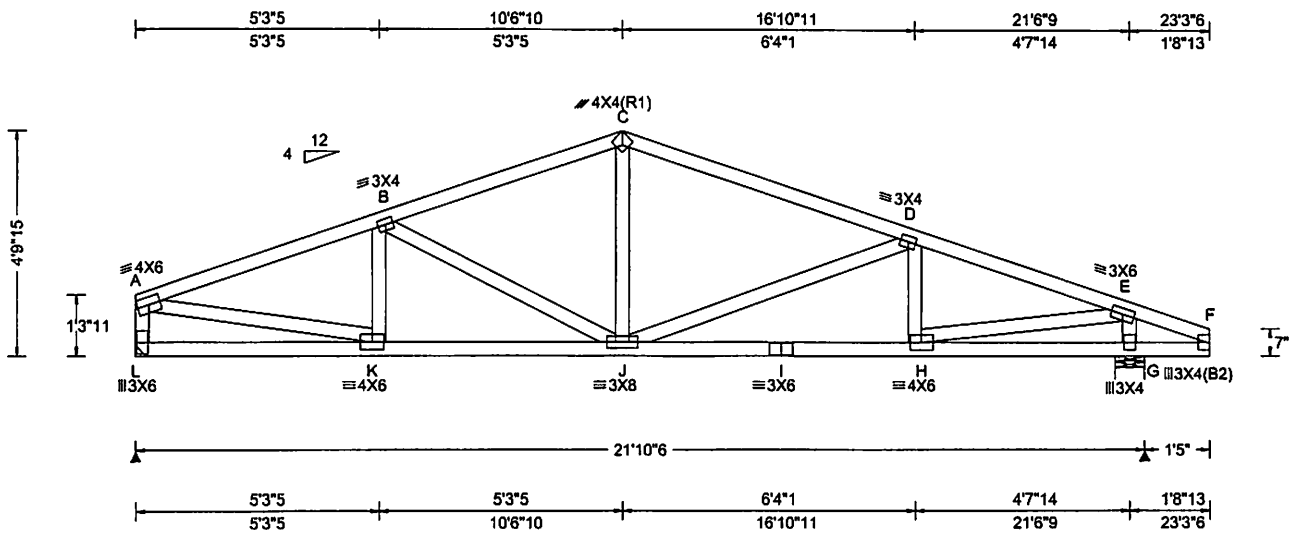
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76283 SPEC FROM:	Ply: 1 Qty: 7	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B11	Cust: R 9419 JRef: 1XUU94190009 T53 DrwNo: 321.23.0630.09793 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.049 J	999	360
VERT(CL):	0.112 J	999	240
HORZ(LL):	0.013 G	-	-
HORZ(TL):	0.031 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.374
Max BC CSI: 0.473
Max Web CSI: 0.353

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	983	/-	/-	/570	/352	/113
G	1152	/-	/-	/710	/395	/-

Wind reactions based on MWFRS
L Brg Wid = - Min Req = -
G Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearing G 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	877	-1601	C - D	805	-1357
B - C	829	-1344	D - E	912	-1667

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	1485	-743	I - H	1556	-796
J - I	1556	-796			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - L	559	-935	H - E	1433	-742
A - K	1449	-750	E - G	671	-1062
C - J	452	-150			

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

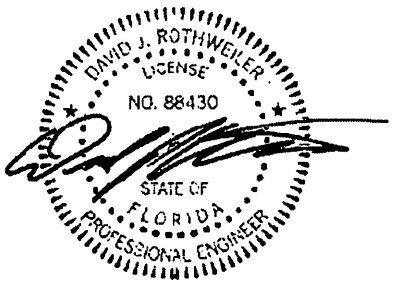
Wind

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

Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

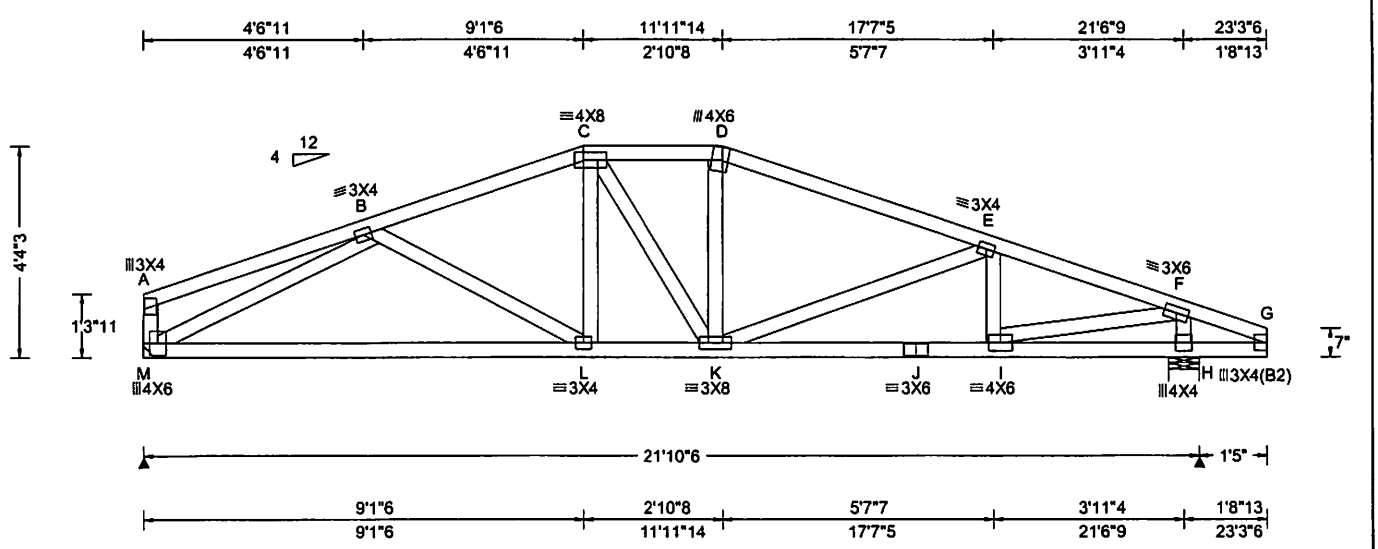


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 75956 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B12	Cust: R 9419 JRef: 1XUU94190009 T58 DrwNo: 321.23.0630.11687 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	L	999	360
VERT(CL): 0.108	L	999	240
HORZ(LL): 0.018	H	-	-
HORZ(TL): 0.042	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.339
Max BC CSI: 0.773
Max Web CSI: 0.734

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	983	/-	/-	/567	/353	/102
H	1152	/-	/-	/718	/396	/-

Wind reactions based on MWFRS
M Brg Wid = - Min Req = -
H Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearing H 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	1003	-1450	D - E	1035	-1452
C - D	1046	-1321	E - F	1011	-1604

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1402	-902	K - J	1512	-906
L - K	1320	-740	J - I	1512	-906

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - B	1070	-1534	F - H	723	-1072
I - F	1426	-845			

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

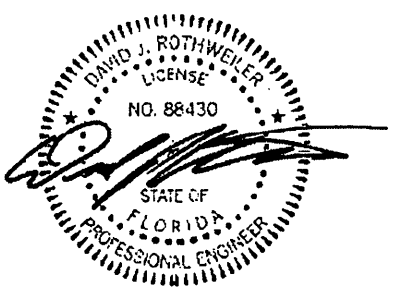
Wind

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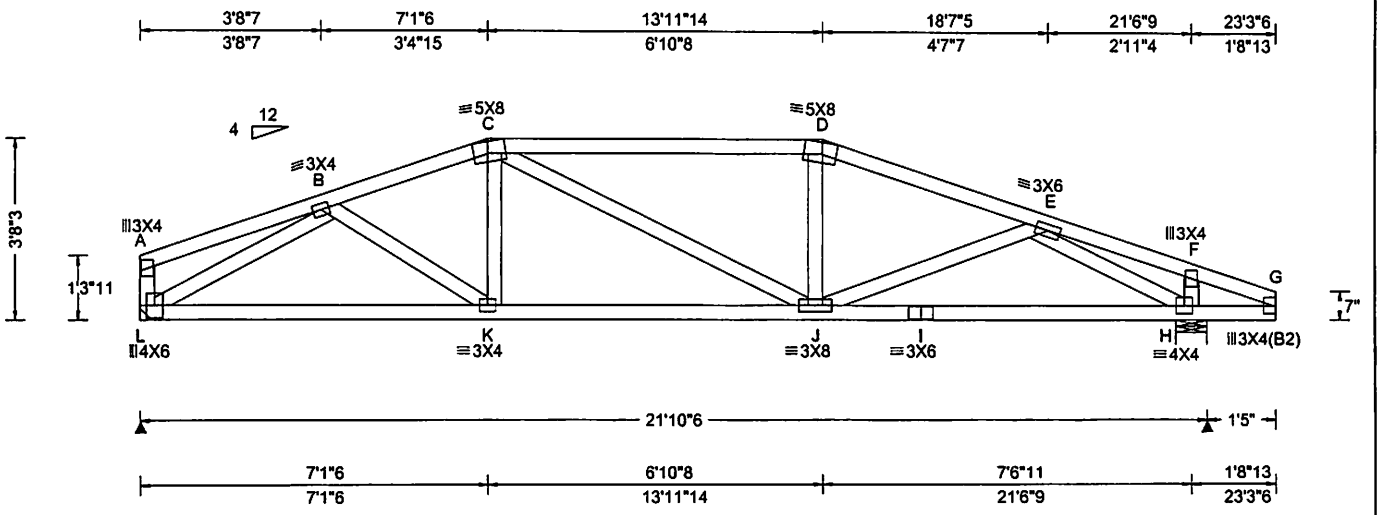
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75962 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B13	Cust: R 9419 JRef: 1XUU94190009 T59 DrwNo: 321.23.0630.13403 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.045 J	999	360
VERT(CL):	0.103 J	999	240
HORZ(LL):	0.020 H	-	-
HORZ(TL):	0.047 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.674
Max BC CSI: 0.539
Max Web CSI: 0.495

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	976	/-	/-	/566	/351	/85
H	1160	/-	/-	/729	/400	/-

Wind reactions based on MWFRS
L Brg Wid = - Min Req = -
H Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearing H 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	1290	-1552	D - E	1325	-1593
C - D	1324	-1473			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	1313	-980	J - I	1244	-924
K - J	1447	-1077	I - H	1244	-924

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	1180	-1493	E - H	1202	-1492

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

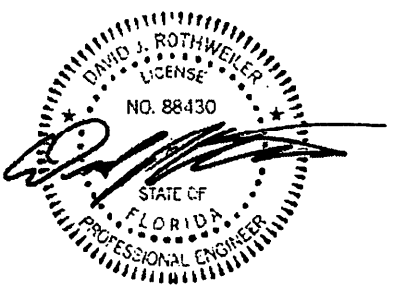
Wind

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.

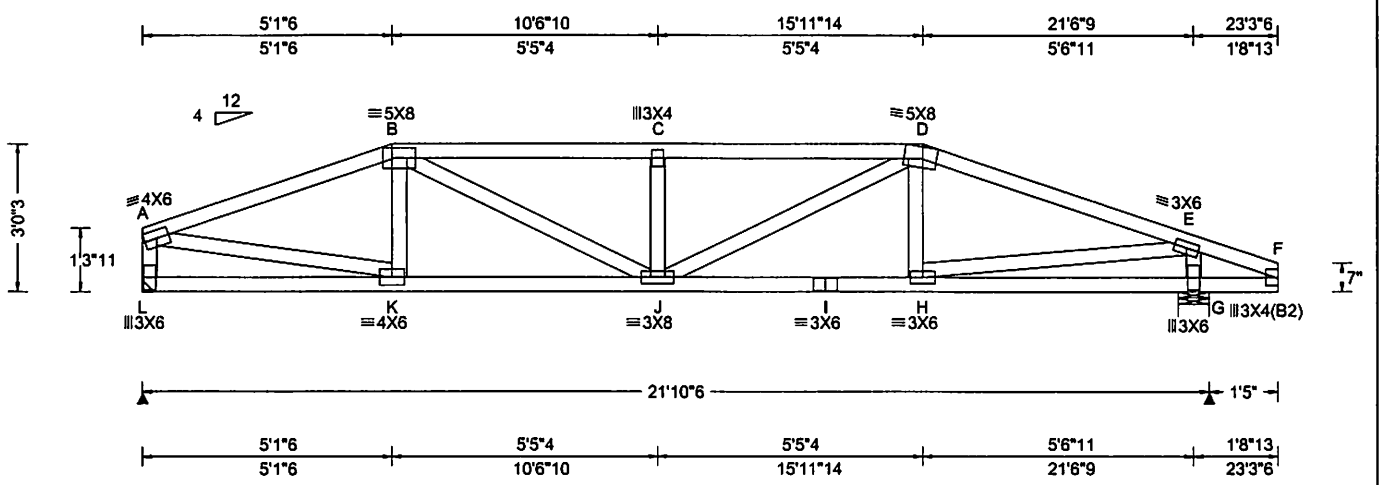


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 75966 HIPS FROM:	Ply: 1 Qty: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: B14	Cust: R 9419 JRef: 1XUU94190009 T61 DrwNo: 321.23.0630.15340 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.073 C 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.167 C 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.014 B - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.033 B - -
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: 0.430
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.406
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.670
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21
	GCpi: 0.18	WAVE	
	Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	983	/-	/-	/571	/355	/69
G	1152	/-	/-	/726	/398	/-

Wind reactions based on MWFRS
L Brg Wid = - Min Req = -
G Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearing G 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	1397	-1613	C - D	1971	-2012
B - C	1971	-2012	D - E	1471	-1689

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	1482	-1226	I - H	1543	-1283
J - I	1543	-1283			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - L	811	-938	J - D	532	-661
A - K	1466	-1260	H - E	1336	-1166
B - J	592	-711	E - G	935	-1053
C - J	619	-394			

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

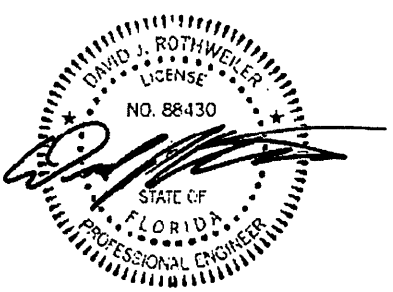
Wind

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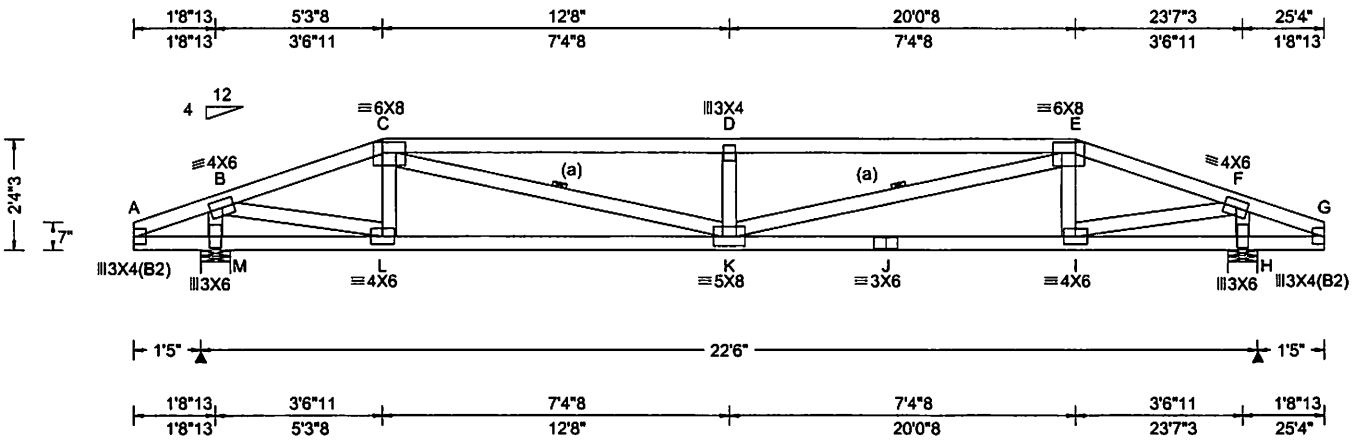
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75970 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** B15	Cust: R 9419 JRef:1XUU94190009 T49 DrwNo: 321.23.0630.17310 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.135	D	999	360
VERT(CL): 0.310	D	845	240
HORZ(LL): 0.023	C	-	-
HORZ(TL): 0.053	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.548
Max Web CSI: 0.489

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	1163	/-	/-	/727	/404	/43
H	1163	/-	/-	/727	/404	/-

Wind reactions based on MWFRS
M Brg Wid = 7.6 Min Req = 1.8 (Truss)
H Brg Wid = 7.6 Min Req = 1.8 (Truss)
Bearings M & 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	1437	-1645	D - E	2667	-2809
C - D	2667	-2809	E - F	1437	-1646

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	1537	-1311	J - I	1537	-1292
K - J	1537	-1292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - B	945	-1099	K - E	1340	-1328
B - L	1529	-1363	E - I	406	-263
C - L	406	-264	I - F	1530	-1363
C - K	1341	-1328	F - H	945	-1099
D - K	788	-567			

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.

Purlins

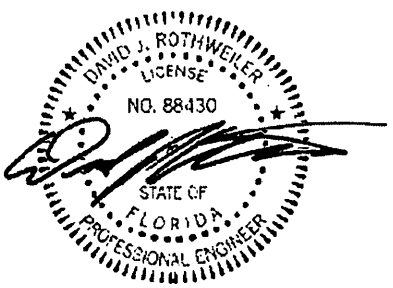
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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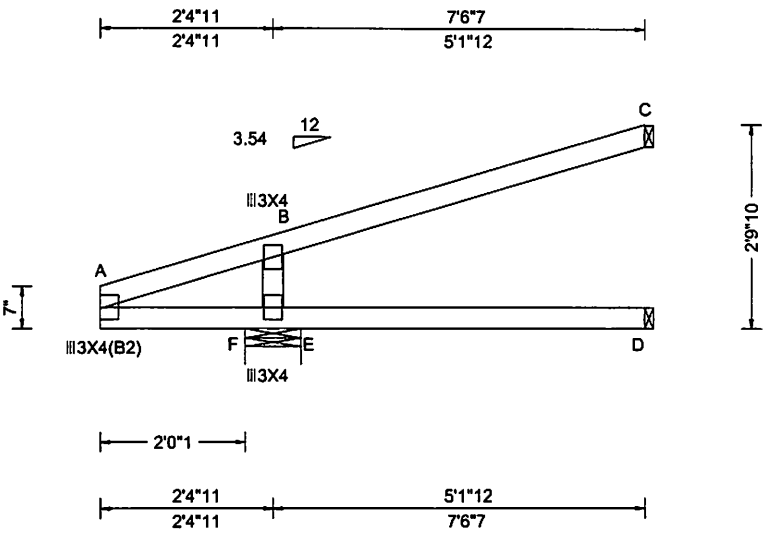
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76167 / HIP_ FROM:	Ply: 1 Qty: 5	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: CJ01	Cust: R 9419 JRef: 1XUU94190009 T13 / DrwNo: 320.23.1605.57399 / PPH 11/16/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.093 A 327 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.098 A 309 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.038 B - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.039 B - -
NCBCLL: 10.00	Mean Height: 22.36 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.271
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.268
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.017
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	405	/-	/-	/-	/104	/-
D	75	/-6	/-	/-	/44	/-
C	57	/-	/-	/-	/44	/-

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

Lumber

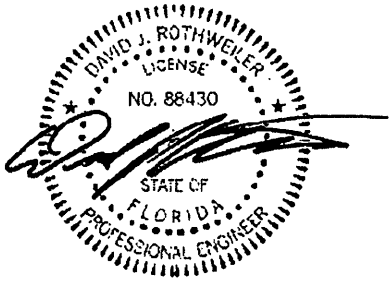
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 2 plf at 0.00 to 2 plf at 7.54
BC: From 2 plf at 0.00 to 2 plf at 7.54
TC: 37 lb Conc. Load at 4.75
BC: -32 lb Conc. Load at 4.75

Wind

Wind loads and reactions based on MWFRS.
Left cantilever is exposed to wind
Wind loading based on both gable and hip roof types.

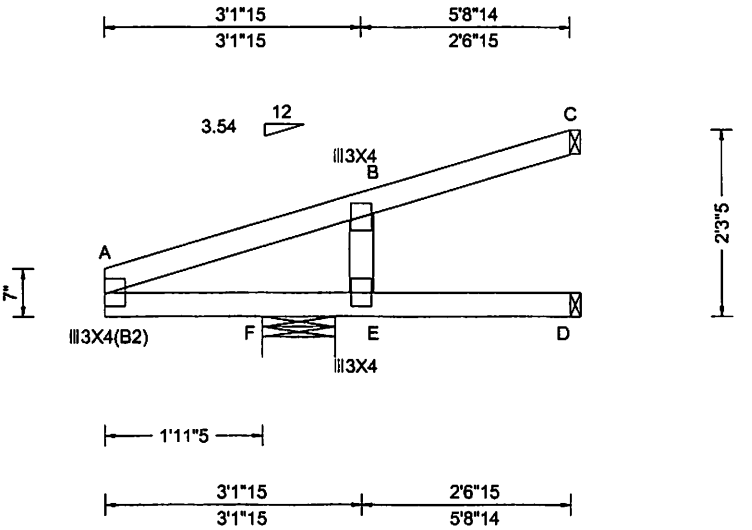


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 76169 / HIP_ FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** CJ02	Cust: R 9419 JRef: 1XUU94190009 T18 / DrwNo: 320.23.1605.57698 / PPH 11/16/2023



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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.109 A 262 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.086 A 331 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.071 B - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.071 B - -
NCBCLL:	10.00	Mean Height: 22.10 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.494
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.680
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.107
		C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	350	/-410	/-	/-	/788	/-
D	51	/-85	/-	/-	/161	/-
C	7	/-40	/-	/-	/75	/-

Wind reactions based on MWFRS
F Brg Wid = 10.8 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing F 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;

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 2 plf at 0.00 to 2 plf at 5.74
BC: From 2 plf at 0.00 to 2 plf at 5.74
TC: -268 lb Conc. Load at 3.16
BC: -290 lb Conc. Load at 3.16

Wind

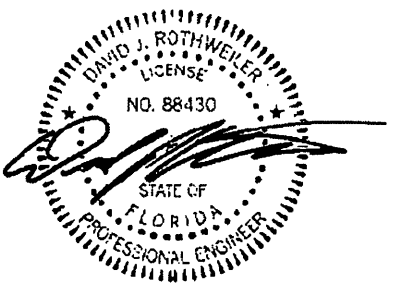
Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -410# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

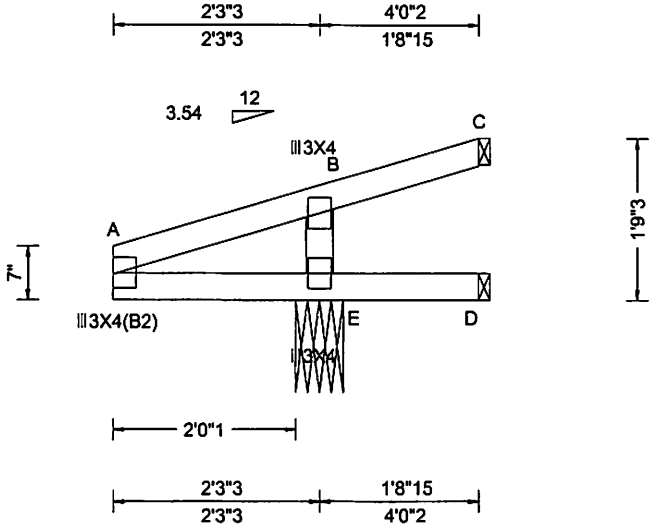


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76148 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** CJ03		Cust: R 9419 JRef: 1XUU94190009 T24 DrwNo: 321.23.0630.18820 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.51 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.038	A	752	360
VERT(CL): 0.089	A	323	240
HORZ(LL): -0.016	C	-	-
HORZ(TL): 0.037	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.226
Max BC CSI: 0.201
Max Web CSI: 0.052

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	459	/-	/-	/-	/247	/-
D	-	/-63	/-	/43	/-	/-
C	8	/-62	/-	/7	/-	/-

Wind reactions based on MWFRS
E Brg Wid = 6.3 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

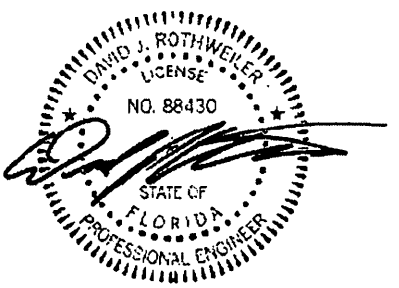
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

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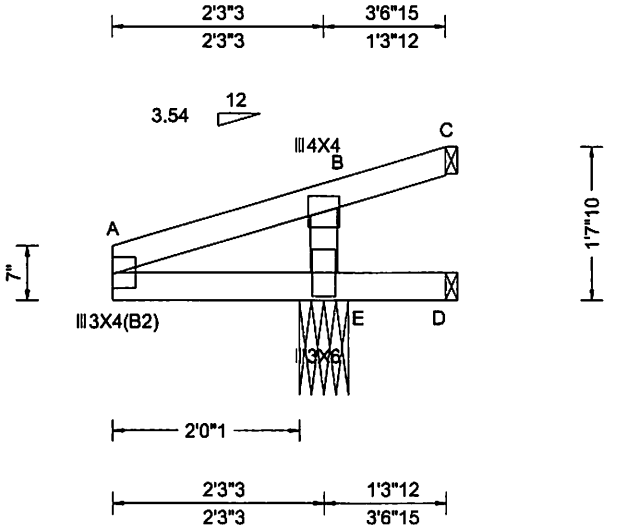
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76152 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** CJ04		Cust: R 9419 JRef: 1XUU94190009 T12 DrwNo: 321.23.0630.20260 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.44 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	A	804	360
VERT(CL): 0.082	A	350	240
HORZ(LL): -0.015	C	-	-
HORZ(TL): 0.034	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.224
Max BC CSI: 0.201
Max Web CSI: 0.053

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	501	/-	/-	/-	/269	/-
D	-	/-96	/-	/56	/-	/-
C	-	/-101	/-	/38	/-	/-

Wind reactions based on MWFRS
E Brg Wid = 6.3 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

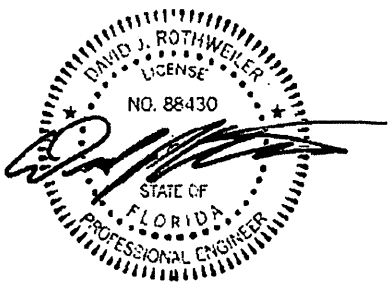
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



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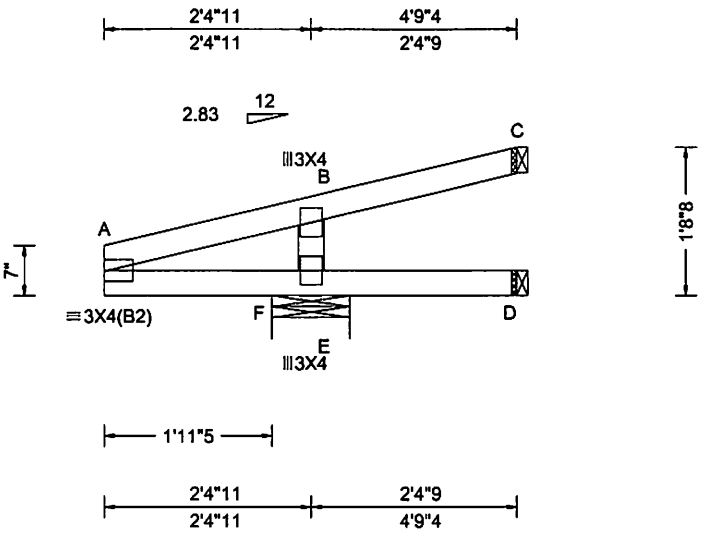
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Glenview, IL 60025

SEQN: 75975 HIP_ FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** CJ05	Cust: R 9419 JRef: 1XUU94190009 T50 DrwNo: 321.23.0630.21593 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.049 A 618 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.117 A 260 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.017 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.041 C - -
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: 0.256
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.220
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.039
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	463	/-	/-	/-	/169	/-
D	-	/-39	/-	/26	/-	/-
C	39	/-34	/-	/-	/16	/-

Wind reactions based on MWFRS
F Brg Wid = 10.8 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

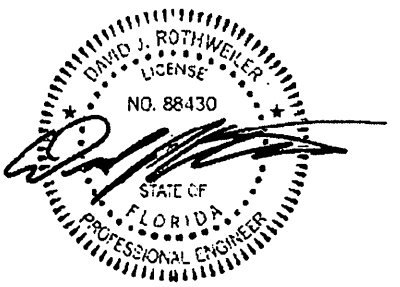
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads and reactions based on MWFRS.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

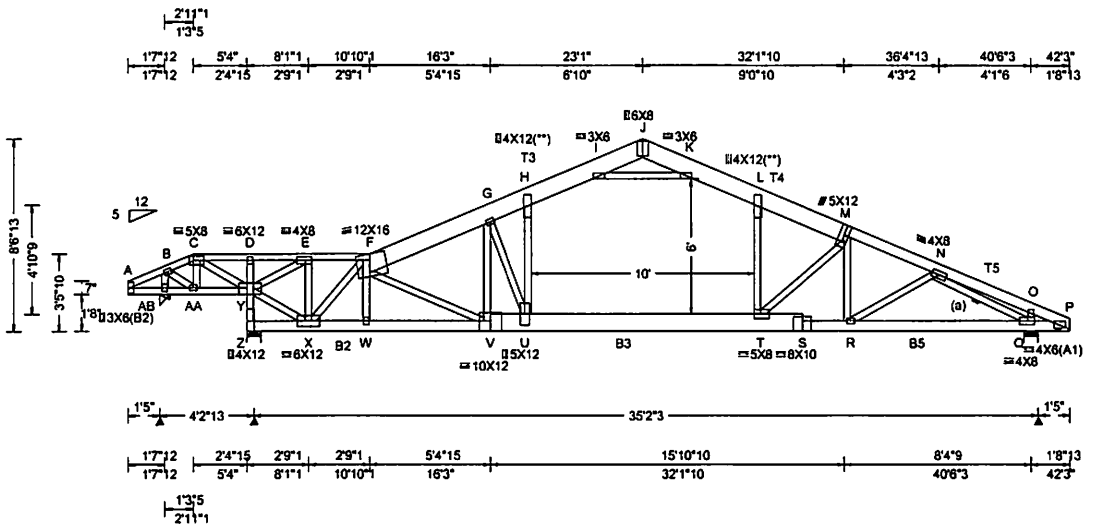


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Glenview, IL 60025

SEQN: 76150 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T28
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0630.29140
		Truss Label: G04	/ 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.175 T 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.384 T 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.053 L - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.113 L - -
NCBCLL: 10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.688
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.699
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.760
	C&C Dist a: 4.22 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AB	-/-548	/-	/55	/-	/-
Z	3266 /-	/-	/-	/1001	/-
Q	2422 /-	/-	/-	/805	/-

Wind reactions based on MWFRS
AB Brg Wid = 5.5 Min Req = 1.5 (Truss)
Z Brg Wid = 7.6 Min Req = 2.7 (Truss)
Q Brg Wid = 7.6 Min Req = 2.0 (Truss)
Bearings AB, Z, & 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.
B - C	675	-188	J - K	378	0
C - D	2034	-492	K - L	945	-3269
D - E	1994	-482	L - M	1058	-3852
E - F	367	-1022	M - N	1163	-3907
F - G	1124	-3810	N - O	112	-600
G - H	1065	-3969	O - P	119	-580
H - I	951	-3282			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AA- Y	166	-621	T - S	3625	-1052
X - W	2918	-919	S - R	3624	-1053
W - V	2920	-923	R - Q	3130	-999
V - U	3461	-996	Q - P	579	-122
U - T	3345	-911			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AB- B	578	-50	G - V	80	-937
B -AA	141	-640	G - U	257	-495
C -AA	489	-54	H - U	1664	-217
C - Y	394	-1650	I - K	839	-3687
Y - Z	1005	-3227	T - L	1272	-114
Y - E	948	-3265	T - M	206	-542
Y - X	1180	-427	M - R	131	-562
E - X	1453	-337	R - N	601	-58
X - F	815	-2793	N - Q	1124	-3199
F - V	669	-86	Q - O	236	-414

Lumber

Top chord: 2x4 SPF #1/#2; T3,T4 2x10 SP #1;
T5 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,
B5 2x6 SP 2400f-2.0E; B3 2x10 SP #1;
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

Attic room loading from 18-1-0 to 28-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Wind

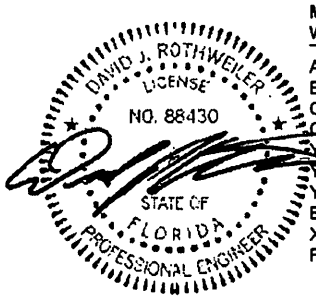
Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -548# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.



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

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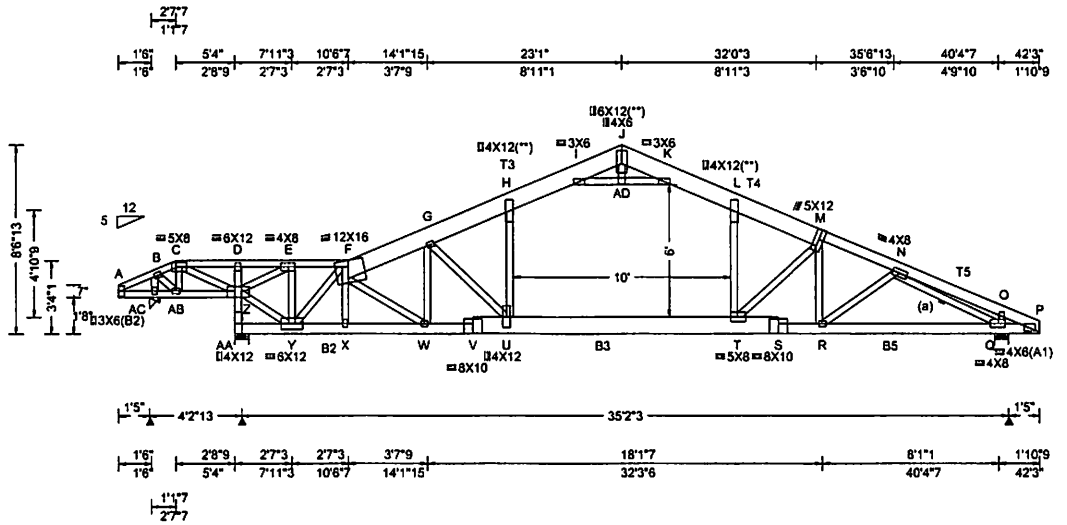
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 76154 SPEC	Ply: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T25
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0630.31717
		Truss Label: G05	/ 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.181 T	999	360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.398 T	999	240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	-0.047 L	-	-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.105 L	-	-
NCBCLL:	10.00	Mean Height: 25.24 ft	Building Code:	Creep Factor: 2.0			
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.670		
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.839		
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI:	0.694		
		C&C Dist a: 4.22 ft	FT/RT/PT:10(0)/3(0)/1(0)				
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 22.02.00.0914.21			
		GCpi: 0.18	WAVE				
		Wind Duration: 1.33					

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh		/ Rw	/ U	/ RL
AC	- /-434	/-		/71	/0	/-
AA	3147 /-	/-		/-	/971	/-
Q	2434 /-	/-		/-	/807	/-

Wind reactions based on MWFRS
AC Brg Wid = 5.5 Min Req = 1.5 (Truss)
AA Brg Wid = 7.6 Min Req = 4.9 (Truss)
Q Brg Wid = 7.6 Min Req = 3.8 (Truss)
Bearings AC, AA, & 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.
B - C	483	-159	I - J	304	-635
C - D	1947	-488	J - K	299	-616
D - E	1902	-476	K - L	957	-3303
E - F	375	-1088	L - M	1067	-3889
F - G	1140	-3764	M - N	1161	-3930
G - H	1069	-3897	N - O	128	-626
H - I	962	-3324	O - P	132	-600

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB- Z	152	-448	U - T	3386	-923
Y - X	2968	-926	T - S	3642	-1052
X - W	2965	-929	S - R	3641	-1053
W - V	3513	-1042	R - Q	3243	-1024
V - U	3514	-1041	Q - P	609	-139

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC- B	464	-69	H - U	1229	-100
B -AB	136	-494	I -AD	703	-3063
C -AB	438	-36	J -AD	1102	-241
G - Z	404	-1667	AD- K	703	-3063
Z - AA	976	-3113	T - L	1277	-107
Z - E	936	-3194	T - M	187	-520
Z - Y	1296	-449	M - R	122	-575
E - Y	1357	-320	R - N	545	-36
Y - F	820	-2790	N - Q	1129	-3278
F - W	661	-139	Q - O	268	-468
W - G	139	-730			

Lumber

Top chord: 2x4 SPF #1/#2; T3,T4 2x10 SP #1; T5 2x6 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B5 2x6 SPF #1/#2; B3 2x10 SP #1;
Webs: 2x4 SPF #1/#2;

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 18-1-0 to 28-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Wind

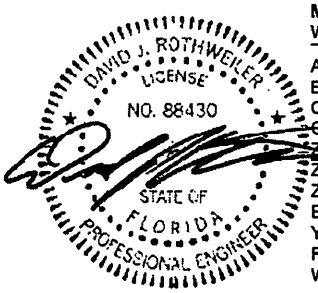
Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -434# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.



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

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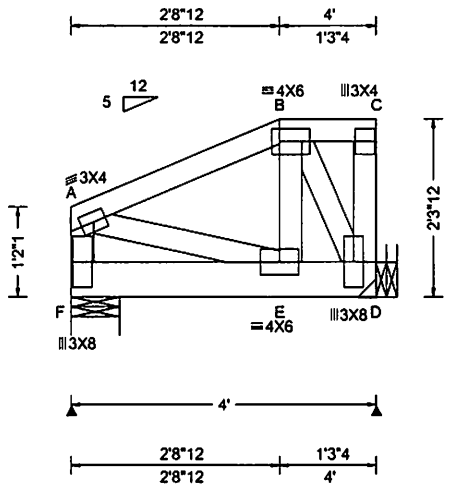
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 76173 / HIPM FROM:	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** G03	Cust: R 9419 JRef: 1XUU94190009 T26 / DrwNo: 320.23.1605.57651 / PPH 11/16/2023

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.41 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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: No
FT/RT/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	E	999	360
VERT(CL): 0.006	E	999	240
HORZ(LL): -0.000	C	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.088
Max BC CSI: 0.270
Max Web CSI: 0.156

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	977	/-	/-	/-	/388	/-
D	1131	/-	/-	/-	/539	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	201	-462

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
E - D	408	-172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - E	411	-172	B - D	310	-738
B - E	690	-216			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

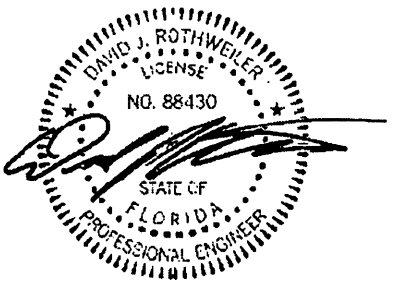
Special Loads
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	73 plf at	0.00 to	73 plf at	4.00	
BC: From	20 plf at	0.00 to	20 plf at	2.14	
BC: From	10 plf at	2.14 to	10 plf at	4.00	
TC:	7 lb Conc. Load at	2.68			
TC:	58 lb Conc. Load at	2.94			
BC:	1625 lb Conc. Load at	2.14			
BC:	51 lb Conc. Load at	2.68			
BC:	15 lb Conc. Load at	2.94			

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

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

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.



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

11/17/2023

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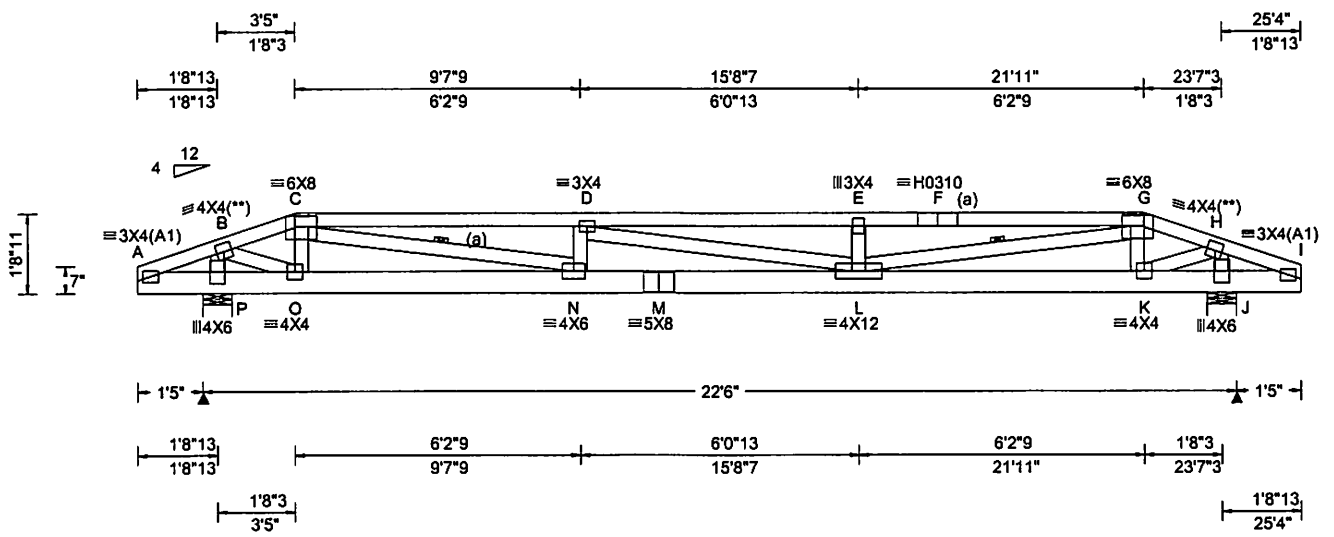
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 75979 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** G10	Cust: R 9419 JRef: 1XUU94190009 T51 DrwNo: 321.23.0630.42130 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	-0.298 E	880	360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.420 E	624	240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	-0.041 C	-	-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.058 C	-	-
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:	0.745		
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.664		
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI:	0.420		
		C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)				
		Loc. from endwall: Any	Plate Type(s):				
		GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.21			
		Wind Duration: 1.33					

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	907	/-	/-	/-	/676	/-
J	907	/-	/-	/-	/676	/-

Wind reactions based on MWFRS
P Brg Wid = 7.6 Min Req = 1.5 (Truss)
J Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings P & 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	881	-1063	E - F	2383	-2835
C - D	2373	-2832	F - G	2384	-2836
D - E	2384	-2835	G - H	894	-1080

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1014	-841	M - L	2872	-2426
N - M	2872	-2426	L - K	1030	-852

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - B	704	-867	L - G	1847	-1566
B - O	1073	-855	K - H	1091	-867
C - N	1862	-1569	H - J	713	-879

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	72 plf at	0.00 to	72 plf at	3.42	
TC: From	36 plf at	3.42 to	36 plf at	21.92	
TC: From	72 plf at	21.92 to	72 plf at	25.33	
BC: From	20 plf at	0.00 to	20 plf at	3.45	
BC: From	10 plf at	3.45 to	10 plf at	21.89	
BC: From	20 plf at	21.89 to	20 plf at	25.33	

TC: 62 lb Conc. Load at 3.45,21.89
TC: 23 lb Conc. Load at 5.48, 7.48, 9.48,11.48 12.67,13.85,15.85,17.85,19.85
BC: -21 lb Conc. Load at 3.45,21.89
BC: -12 lb Conc. Load at 5.48, 7.48, 9.48,11.48 12.67,13.85,15.85,17.85,19.85

Plating Notes

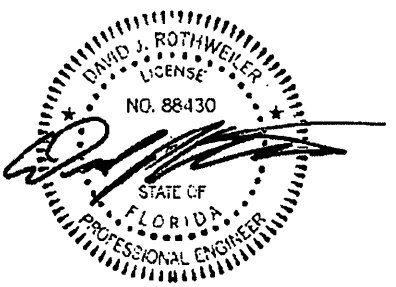
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

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.

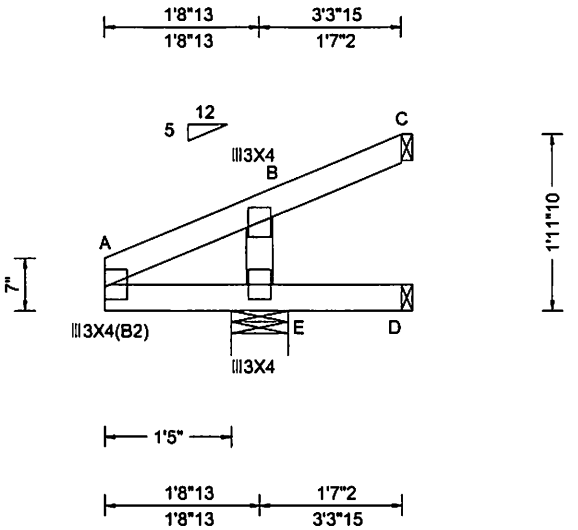


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 76175 / JACK FROM:	Ply: 1 Qty: 10	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** J01	Cust: R 9419 JRef: 1XUU94190009 T68 / DrwNo: 320.23.1605.57477 / PPH 11/16/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 21.94 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	A	999	360
VERT(CL): 0.038	A	588	240
HORZ(LL): -0.010	C	-	-
HORZ(TL): 0.022	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.150
Max BC CSI: 0.141
Max Web CSI: 0.091

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	354	/-	/-	/311	/94	/91
C	19	/-35	/-	/14	/51	/-
D	-	/-40	/-	/28	/50	/-

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

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - E	419	-227

Lumber

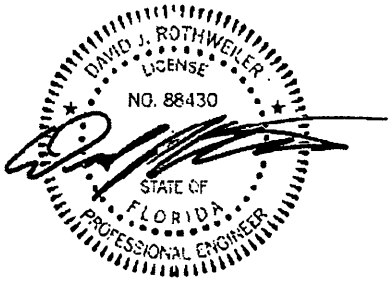
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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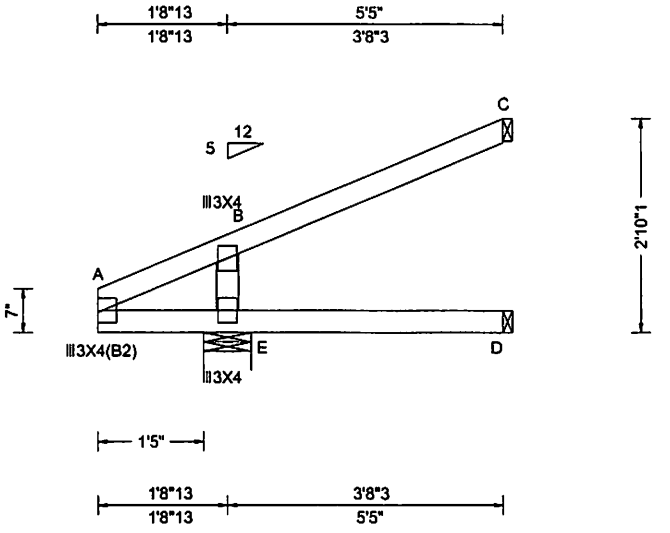
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120477/ EJAC FROM:	Ply: 1 Qty: 32	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** J02	Cust: R 9419 JRef: 1XUU94190009 T34 / DrwNo: 320.23.1605.57415 / PPH 11/16/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.049 A 461 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.041 A 542 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.029 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.033 C - -
NCBCLL: 10.00	Mean Height: 22.38 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.378
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.269
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.101
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	384	/-	/-	/311	/107	/151
D	51	/-	/-	/27	/8	/-
C	107	/-	/-	/58	/119	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 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#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - E	415	-287

Lumber

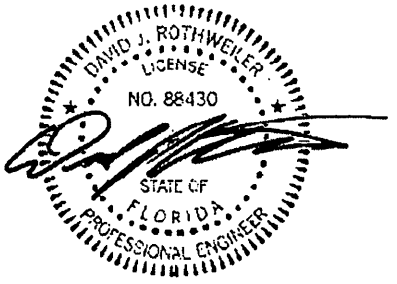
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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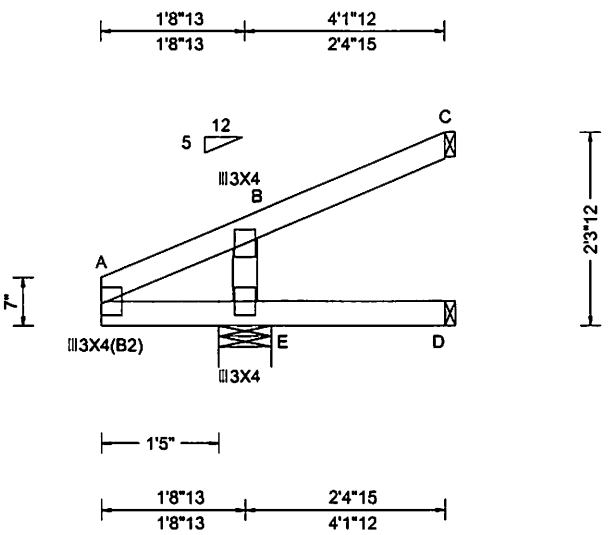
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76179 / EJAC FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** J03	Cust: R 9419 JRef: 1XUU94190009 T37 / DrwNo: 320.23.1605.57461 / PPH 11/16/2023



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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.021 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.043 A 526 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.012 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.024 C - -
NCBCLL: 10.00	Mean Height: 22.11 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.164
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.156
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.078
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	351	/-	/-	/297	/84	/89
D	15	/-12	/-	/23	/19	/-
C	58	/-1	/-	/21	/60	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 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

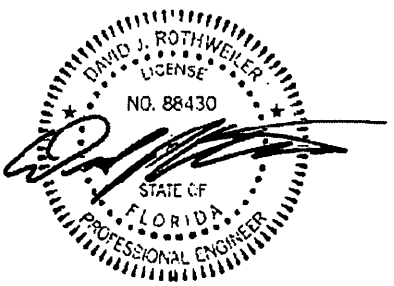
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



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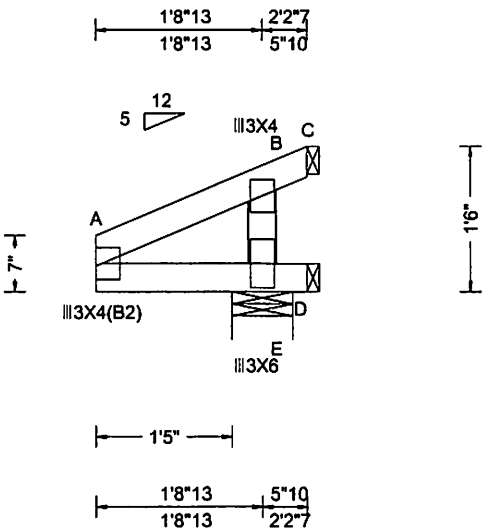
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 76181 / JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** J04	Cust: R 9419 JRef: 1XUU94190009 T33 / DrwNo: 320.23.1605.57446 / PPH 11/16/2023



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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL):	0.019	A	999	360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.039	A	578	240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	-0.011	C	-	-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.022	C	-	-
NCBCLL:	10.00	Mean Height: 21.71 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.178			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.169			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI:	0.142			
		C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)					
		Loc. from endwall: Any	Plate Type(s):					
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21				
		Wind Duration: 1.33						

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	695	/-	/-	/685	/247	/59
D	-	/-249	/-	/111	/285	/-
C	-	/-248	/-	/82	/232	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 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#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - E	625	-377

Lumber

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

Wind

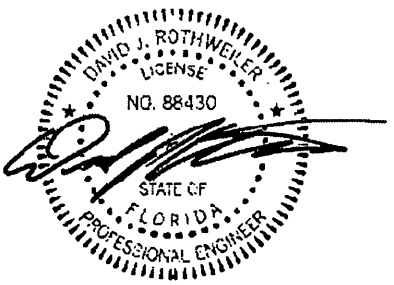
Wind loads based on MWFRS with additional C&C member design.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -249# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

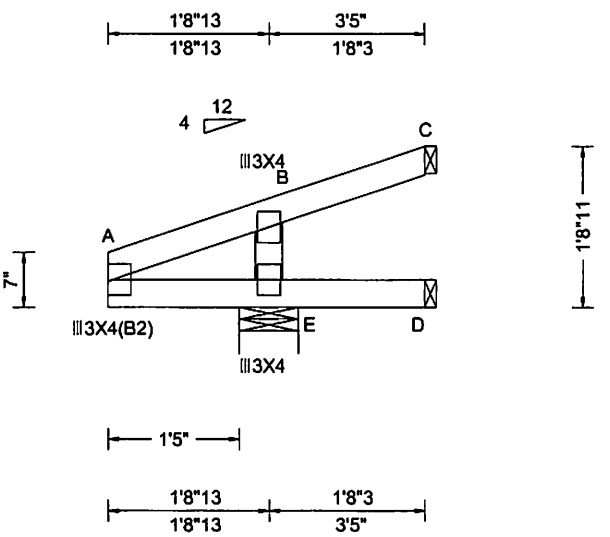


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 75972 EJAC FROM:	Ply: 1 Qty: 11	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** J06	Cust: R 9419 JRef: 1XUU94190009 T52 DrwNo: 321.23.0630.48623 / 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: 15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.017 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.038 A 591 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.008 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.018 C - -
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: 0.200
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.135
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.108
	C&C Dist a: 3.00 ft	FT/RT/PT:10(0)/3(0)/1(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	348	/-	/-	/290	/97	/60
D	-	/-35	/-	/27	/41	/-
C	23	/-31	/-	/13	/36	/-

Wind reactions based on MWFRS
E Brg Wid = 7.6 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#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - E	482	-225

Lumber

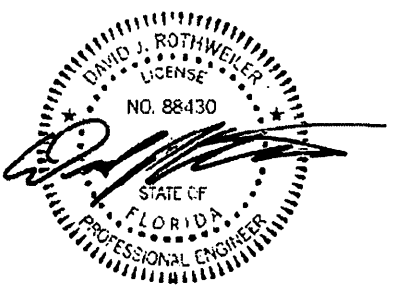
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

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

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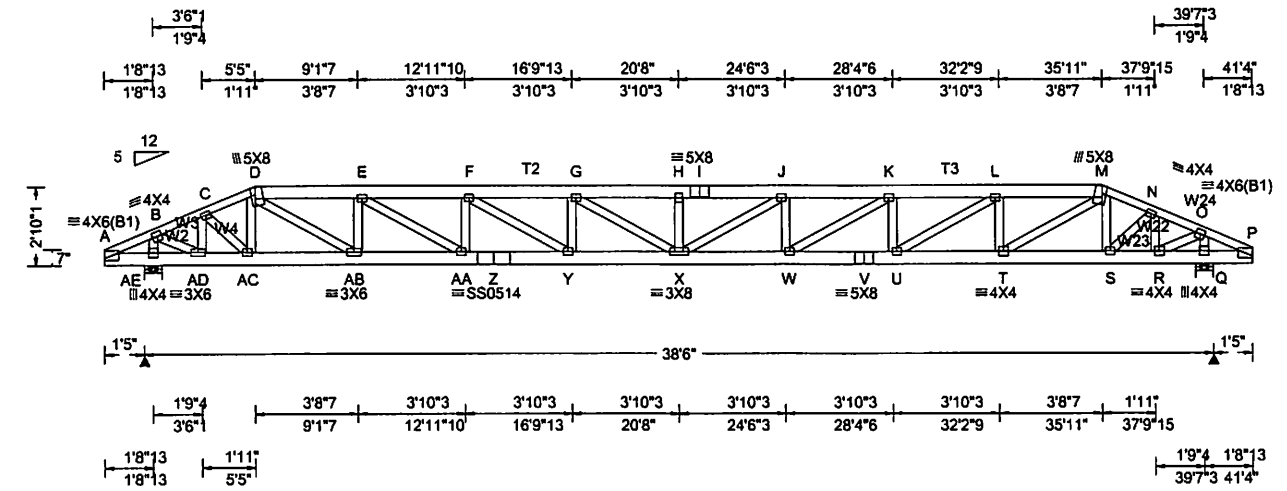
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120491 HIPS FROM:	Ply: 2 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** G01	Cust: R 9419 JRef: 1XUU94190009 T11 DrwNo: 321.23.0630.24397 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): -0.287 H 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.500 H 909 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.051 D - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.089 D - -
NCBCLL:	0.00	Mean Height: 22.38 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.282
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.273
		C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AE	2728 / -	/ -	/ -	/1692	/ -
Q	2648 / -	/ -	/ -	/1628	/ -

Wind reactions based on MWFRS
AE Brg Wid = 7.6 Min Req = 1.5 (Truss)
Q Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings AE & 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.
B - C	850	-1330	I - J	3183	-4865
C - D	1234	-1908	J - K	3026	-4633
D - E	2053	-3136	K - L	2621	-4021
E - F	2684	-4100	L - M	1963	-3023
F - G	3058	-4673	M - N	1183	-1844
G - H	3183	-4865	N - O	815	-1287
H - I	3183	-4865			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AD-AC	1310	-838	X - W	4669	-3055
AC-AB	1805	-1171	W - V	4087	-2669
AB-AA	3235	-2125	V - U	4087	-2669
AA- Z	4163	-2730	U - T	3120	-2032
Z - Y	4163	-2730	T - S	1743	-1121
Y - X	4706	-3085	S - R	1267	-804

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AE- B	781	-1227	W - K	660	-429
B -AD	1211	-771	K - U	400	-544
AD- C	487	-742	U - L	1087	-709
C -AC	693	-457	L - T	574	-806
D -AB	1611	-1065	T - M	1549	-1016
AB- E	600	-822	S - N	667	-436
E -AA	1044	-673	N - R	468	-718
AA- F	379	-519	R - O	1172	-740
F - Y	617	-394	O - Q	752	-1191

Lumber

Top chord: 2x4 SP 2400f-2.0E; T2, T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP 2400f-2.0E; W2,W3,W4,W22,W23, W24 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	73 plf at	0.00 to	73 plf at	5.42
TC: From	36 plf at	5.42 to	36 plf at	35.92
TC: From	73 plf at	35.92 to	73 plf at	41.33
BC: From	20 plf at	0.00 to	20 plf at	5.43
BC: From	10 plf at	5.43 to	10 plf at	35.91
BC: From	20 plf at	35.91 to	20 plf at	41.33

TC: 165 lb Conc. Load at 5.43,35.91
TC: 107 lb Conc. Load at 7.48, 8.86, 9.86,11.86 13.86,15.86,17.86,19.86,21.86,23.85,25.85,27.85 29.85,31.85,33.85
BC: 126 lb Conc. Load at 5.43,35.91
BC: 51 lb Conc. Load at 7.48, 8.86, 9.86,11.86 13.86,15.86,17.86,19.86,21.86,23.85,25.85,27.85 29.85,31.85,33.85

Plating Notes

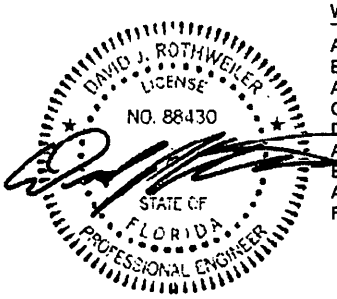
All plates are 3X4 except as noted.

Purlins

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

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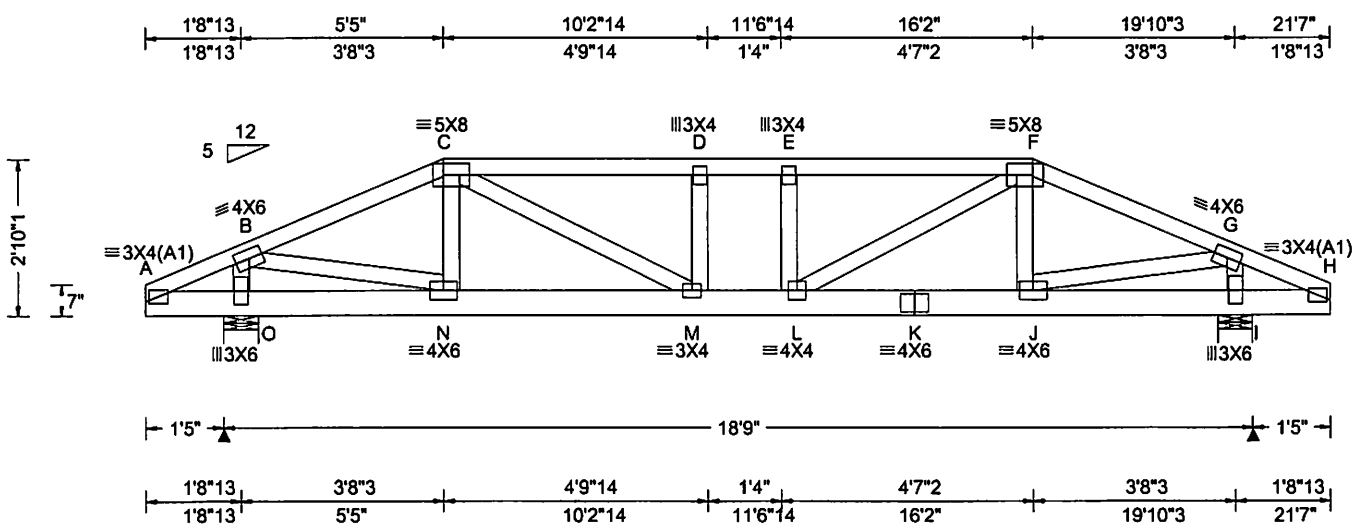
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120475 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** G09	Cust: R 9419 JRef: 1XUU94190009 T19 DrwNo: 321.23.0630.40247 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.38 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.082	D	999	360
VERT(CL): 0.138	D	999	240
HORZ(LL): -0.018	C	-	-
HORZ(TL): 0.030	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.659
Max BC CSI: 0.177
Max Web CSI: 0.341

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
O	1445 /-	/-	/-	/911	/-
I	1435 /-	/-	/-	/903	/-

Wind reactions based on MWFRS
O Brg Wid = 7.6 Min Req = 1.5 (Truss)
I Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings O & I 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	1236	-1852	E - F	1642	-2411
C - D	1637	-2407	F - G	1210	-1819
D - E	1657	-2427			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	1666	-1110	L - K	1633	-1084
M - L	2427	-1657	K - J	1633	-1084

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - B	863	-1278	L - F	937	-642
B - N	1512	-1010	J - G	1472	-979
C - M	884	-599	G - I	848	-1258

Lumber

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

Special Loads

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

TC: From 73 plf at 0.00 to 73 plf at 5.42
TC: From 36 plf at 5.42 to 36 plf at 16.17
TC: From 73 plf at 16.17 to 73 plf at 21.58
BC: From 20 plf at 0.00 to 20 plf at 5.43
BC: From 10 plf at 5.43 to 10 plf at 16.16
BC: From 20 plf at 16.16 to 20 plf at 21.58
TC: 165 lb Conc. Load at 5.43,16.16
TC: 107 lb Conc. Load at 7.48, 9.48,10.23,12.10 14.10
BC: 126 lb Conc. Load at 5.43,16.16
BC: 51 lb Conc. Load at 7.48, 9.48,10.23,12.10 14.10

Purlins

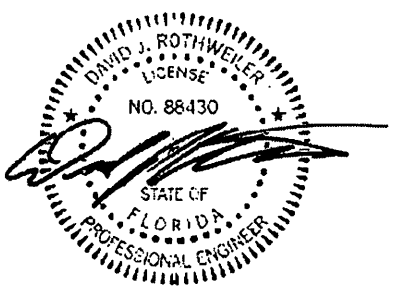
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Wind

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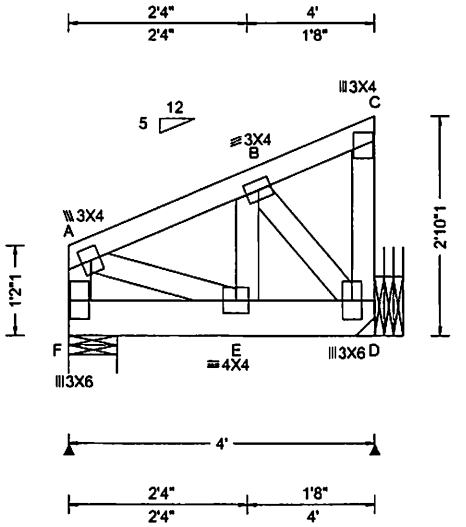
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120495 EJAC FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D **Truss Label:** G11	Cust: R 9419 JRef: 1XUU94190009 T22 DrwNo: 321.23.0630.43957 / FK 11/17/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.67 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.003 E	999	360
VERT(CL):	0.007 E	999	240
HORZ(LL):	-0.001 C	-	-
HORZ(TL):	0.003 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.093
Max BC CSI: 0.083
Max Web CSI: 0.133

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	549	/-	/-	/-	/193	/-
D	669	/-	/-	/-	/226	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	209	-617

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
E - D	464	-157

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	190	-497	E - B	590	-117
A - E	566	-178	B - D	237	-701

Lumber

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

Special Loads

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

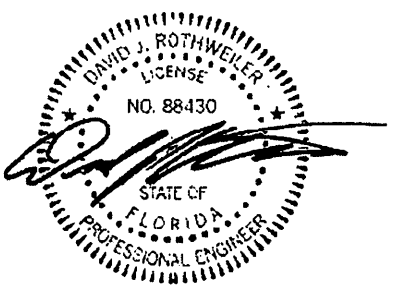
TC: From	73 plf at	0.00 to	73 plf at	4.00	
BC: From	20 plf at	0.00 to	20 plf at	4.00	
BC: 848 lb Conc. Load at 2.28					

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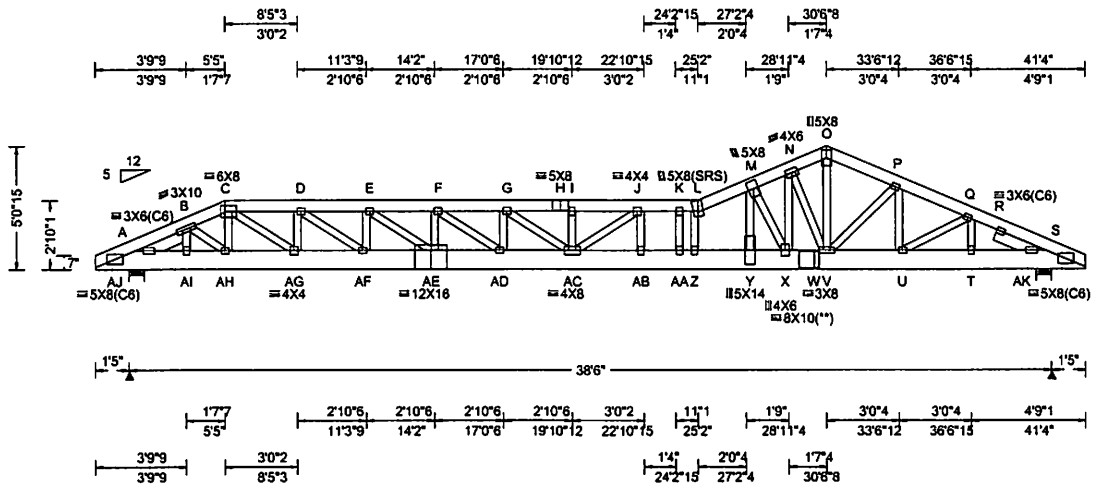
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120483 SPEC FROM:	Ply: 3 Qty: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: G08	Cust: R 9419 JRef: 1XUU94190009 T17 DrwNo: 321.23.0630.38210 / FK 11/17/2023

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.50 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 J	999	360
VERT(CL):	0.648 J	702	240
HORZ(LL):	0.041 C	-	-
HORZ(TL):	0.094 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.247
Max BC CSI: 0.355
Max Web CSI: 0.314

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AJ	3428 /-	/-	/-	/1819	/-
AK	2655 /-	/-	/-	/1249	/-

Wind reactions based on MWFRS
AJ Brg Wid = 7.6 Min Req = 1.5 (Truss)
AK Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings AJ & AK 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	326	-602	J - K	1565	-3195
B - C	1001	-1845	K - L	1564	-3192
C - D	1409	-2617	L - M	1630	-3328
D - E	1804	-3384	M - N	1163	-2387
E - F	2071	-3939	N - O	768	-1588
F - G	2207	-4276	O - P	777	-1604
G - H	2198	-4372	P - Q	710	-1478
H - I	2198	-4372	Q - R	561	-1183
I - J	2198	-4372	R - S	317	-688

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AJ-AI	1249	-677	AB-AA	3195	-1565
A -AJ	550	-293	AA- Z	3195	-1565
AI-AH	1227	-665	Z - Y	3239	-1586
AH-AG	1696	-920	Y - X	3200	-1567
AG-AF	2709	-1460	X - W	1956	-949
AF-AE	3453	-1839	W - V	1956	-949
AE-AD	3989	-2096	V - U	1370	-656
AD-AC	4301	-2218	U - T	1064	-506
AC-AB	3241	-1590	T -AK	1054	-501

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AJ- B	484	-894	AC- J	1484	-785
B -AI	238	-422	J -AB	386	-709
B -AH	624	-339	K -AA	195	-378
C -AG	1165	-618	Z - L	326	-662
AG- D	396	-714	Y - M	2108	-1039
D -AF	896	-454	M - X	1396	-2809
AF- E	269	-533	X - N	1835	-902
E -AE	646	-307	N - V	624	-1263
AE- F	196	-388	V - O	1086	-515
F -AD	383	-146	R -AK	278	-559

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x10 SP 2400f-2.0E;
Webs: 2x4 SP 2400f-2.0E;
Lt Slider: 2x6 SPF #1/#2; block length = 2.177'
Rt Slider: 2x6 SPF #1/#2; block length = 2.200'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	73 plf at	0.00 to	73 plf at	5.42	
TC: From	36 plf at	5.42 to	36 plf at	21.10	
TC: From	73 plf at	21.10 to	73 plf at	41.33	
BC: From	20 plf at	0.00 to	20 plf at	5.43	
BC: From	10 plf at	5.43 to	10 plf at	21.10	
BC: From	20 plf at	21.10 to	20 plf at	41.33	

TC: 222 lb Conc. Load at 5.43
TC: 107 lb Conc. Load at 5.48
TC: 215 lb Conc. Load at 7.48, 9.48,11.48,13.48 15.48,17.48,19.48
BC: 126 lb Conc. Load at 5.43
BC: 51 lb Conc. Load at 7.48, 9.48,11.48,13.48 15.48,17.48,19.48
BC: 669 lb Conc. Load at 21.10

Plating Notes

All plates are 3X4 except as noted.

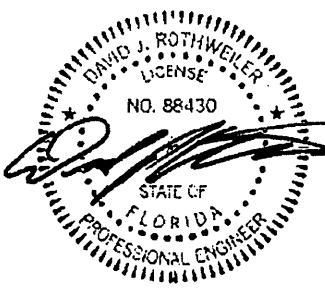
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

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, PE, FL 88430

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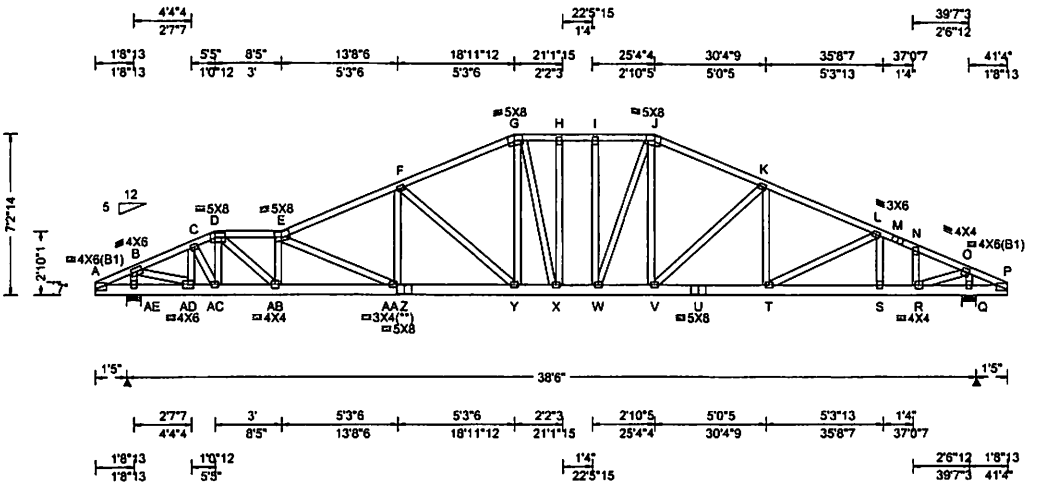
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Glenview, IL 60025

SEQN: 120489 SPEC FROM:	Ply: 2 Qty: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: G02	Cust: R 9419 JRef: 1XUU94190009 T29 DrwNo: 321.23.0630.26647 / 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:	15.00	Speed: 145 mph	Pf: NA Ce: NA	VERT(LL): 0.086 AA 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.198 AA 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.022 D - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.050 D - -
NCBCLL:	0.00	Mean Height: 24.58 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.292
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.170
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.335
		C&C Dist a: 4.13 ft	FT/RT/PT:10(0)/3(0)/1(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.33		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AE	2968	/-	/-	/-	/1354	/-
Q	1989	/-	/-	/-	/888	/-

Wind reactions based on MWFRS
AE Brg Wid = 7.6 Min Req = 1.5 (Truss)
Q Brg Wid = 7.6 Min Req = 1.5 (Truss)
Bearings AE & 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.
B - C	808	-1774	I - J	576	-1290
C - D	836	-1845	J - K	612	-1351
D - E	1046	-2331	K - L	682	-1516
E - F	882	-1952	L - M	574	-1303
F - G	662	-1460	M - N	582	-1315
G - H	577	-1292	N - O	577	-1294
H - I	577	-1292			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AD-AC	1638	-743	X - W	1292	-577
AC-AB	1703	-770	W - V	1211	-540
AB-AA	2400	-1081	V - U	1371	-612
AA- Z	1754	-787	U - T	1371	-612
Z - Y	1754	-787	T - S	1202	-533
Y - X	1311	-586	S - R	1194	-528

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AE- B	612	-1299	AA- F	377	-123
B -AD	1486	-676	F - Y	271	-597
D -AB	852	-373	G - Y	481	-173
AB- E	296	-588	R - O	1177	-523
E -AA	319	-696	O - Q	478	-1027

Lumber

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

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 73 plf at 0.00 to 73 plf at 41.33
BC: From 20 plf at 0.00 to 20 plf at 41.33
BC: 1131 lb Conc. Load at 4.28

Plating Notes

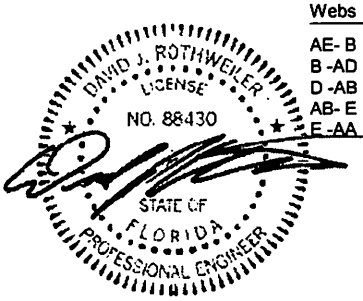
All plates are 3X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

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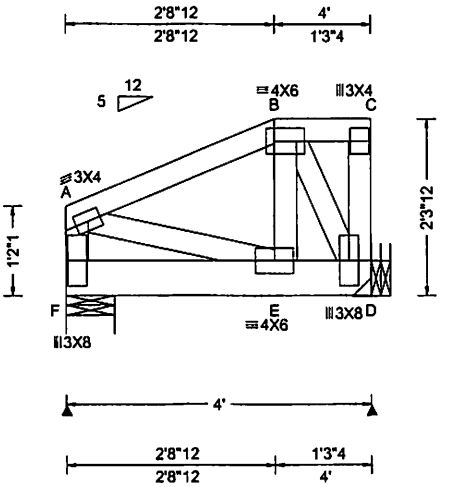
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120493 HIPM FROM:	Ply: 2 Qty: 1	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2 Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D Truss Label: G07	Cust: R 9419 JRef: 1XUU94190009 T14 DrwNo: 321.23.0630.35097 / FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 45.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 22.41 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.33

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: No
FT/RT/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.003 E	999	360
VERT(CL):	0.006 E	999	240
HORZ(LL):	-0.000 C	-	-
HORZ(TL):	0.001 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.088
Max BC CSI: 0.270
Max Web CSI: 0.156

VIEW Ver: 22.02.00.0914.21

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	977	/-	/-	/-	/388	/-
D	1131	/-	/-	/-	/539	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	201	-462

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
E - D	408	-172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - E	411	-172	B - D	310	-738
B - E	690	-216			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

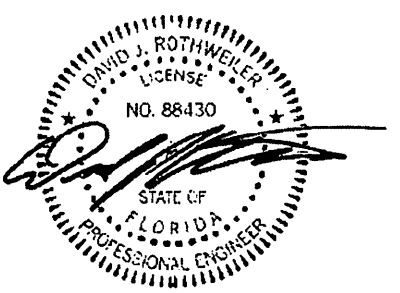
Special Loads
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	73 plf at	0.00 to	73 plf at	4.00	
BC: From	20 plf at	0.00 to	20 plf at	2.14	
BC: From	10 plf at	2.14 to	10 plf at	4.00	
TC:	7 lb Conc. Load at	2.68			
TC:	58 lb Conc. Load at	2.94			
BC:	1625 lb Conc. Load at	2.14			
BC:	51 lb Conc. Load at	2.68			
BC:	15 lb Conc. Load at	2.94			

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

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

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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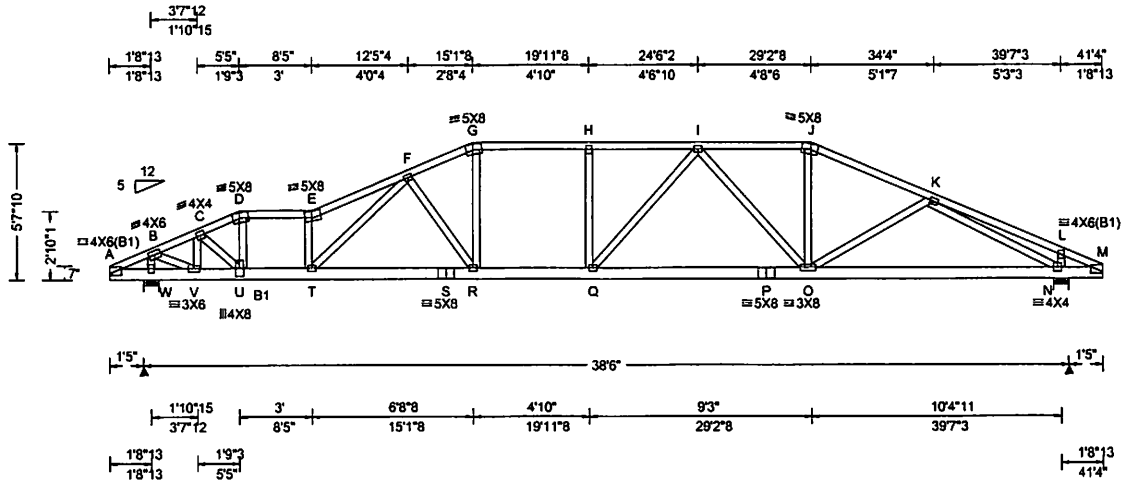
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SEQN: 120497 SPEC	Ply: 2	Job Number: KTQ23455-BLDG-VILLA-XL-R-REV-2	Cust: R 9419 JRef: 1XUU94190009 T15
FROM:	Qty: 1	Job Number:KTQ23455-BLDG-VILLA-XL-R- Job Description:Florida Job-BLDG-VILLA-XL D	DrwNo: 321.23.0630.33703
		Truss Label: G06	/ FK 11/17/2023

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	45.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 145 mph
Enclosure: Closed
Risk Category: II
EXP: D Kzt: NA
Mean Height: 23.78 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.13 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.33

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: No
FT/RT/PT:10(0)/3(0)/1(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.165 H	999	360
VERT(CL):	0.378 H	999	240
HORZ(LL):	0.023 N	-	-
HORZ(TL):	0.054 N	-	-

Creep Factor: 2.0
Max TC CSI: 0.397
Max BC CSI: 0.601
Max Web CSI: 0.472

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	2961	/-	/-	/-	/1327	/-
N	1997	/-	/-	/-	/867	/-

Wind reactions based on MWFRS
W Brg Wid = 7.6 Min Req = 1.5 (Truss)
N Brg Wid = 7.6 Min Req = 1.6 (Truss)
Bearings W & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	678	-1514	G - H	728	-1675
C - D	989	-2244	H - I	725	-1670
D - E	921	-2096	I - J	570	-1342
E - F	1009	-2282	J - K	639	-1480
F - G	800	-1831			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1490	-663	R - Q	1674	-728
U - T	2096	-921	Q - P	1585	-698
T - S	1840	-813	P - O	1585	-698
S - R	1840	-813	O - N	1297	-581

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - B	610	-1323	T - F	460	-155
B - V	1340	-601	G - R	539	-205
V - C	386	-882	I - O	196	-375
C - U	898	-372	O - J	380	-120
D - U	609	-253	K - N	680	-1390
E - T	417	-877			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF #1/#2; B1 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	73 plf at	0.00 to	73 plf at	41.33	
BC: From	20 plf at	0.00 to	20 plf at	41.33	
BC: 1131 lb Conc. Load at 4.28					

Plating Notes

All plates are 3X4 except as noted.

Purlins

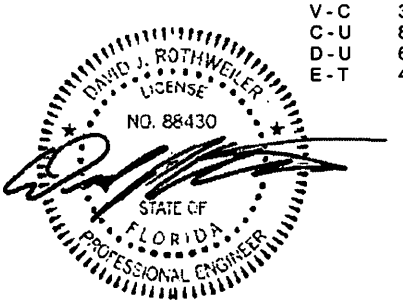
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Wind

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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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.

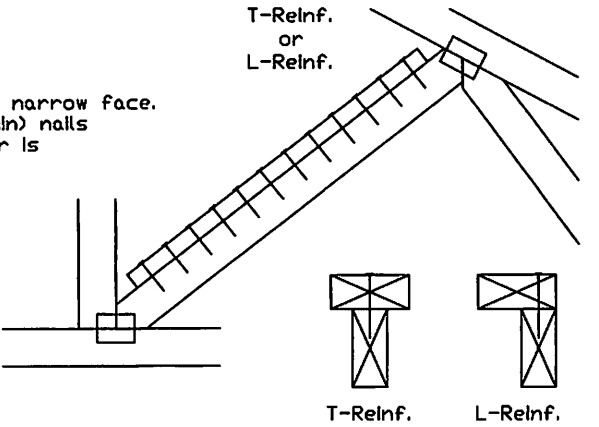
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

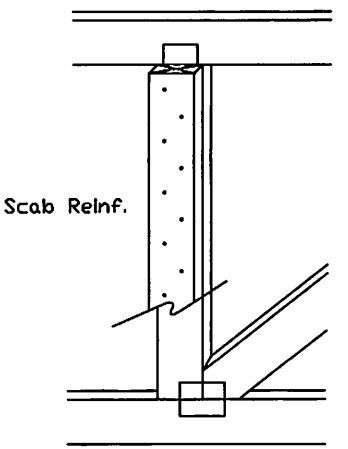
T-Reinforcement or L-Reinforcement:

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.



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

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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, David J. Rothweiler, FL PE# 88430

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			

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.

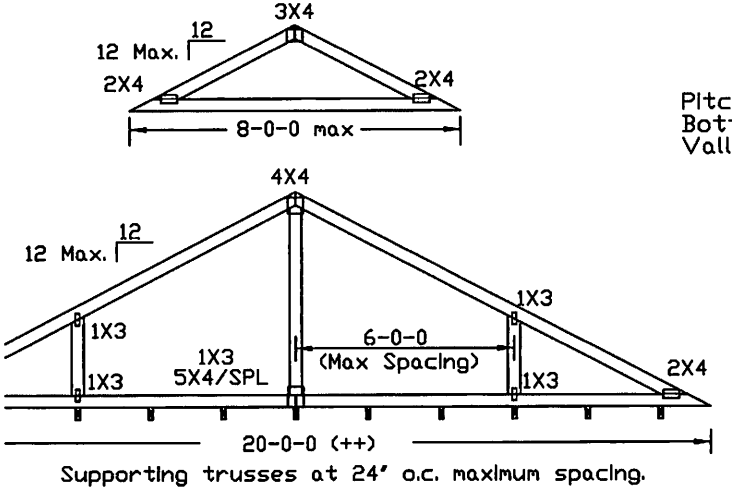
All plates shown are Alpine Wave Plates.

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.

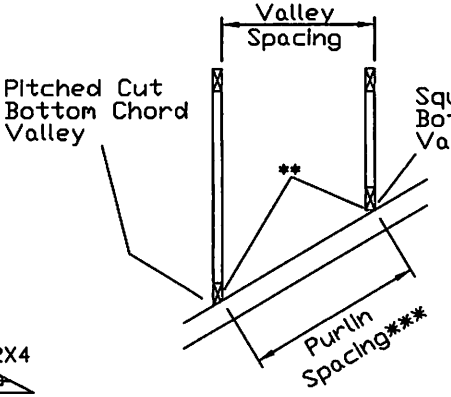
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

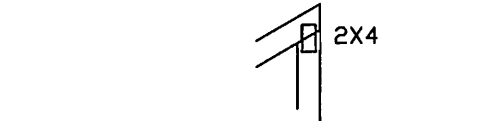
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

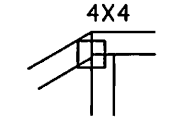
++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

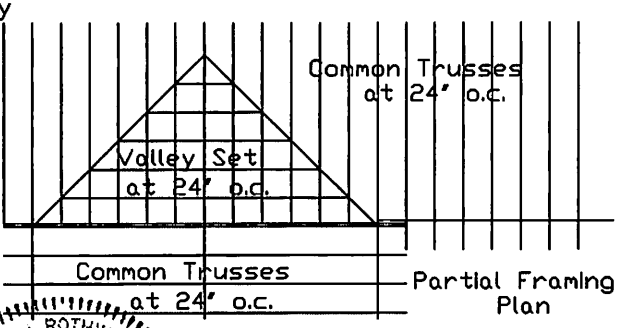


Supporting trusses at 24" o.c. maximum spacing.









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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	0PSF	
TOT. LD.		60	55	57PSF	
DUR.FAC.		1.25/1.33	1.15	1.15	
SPACING			24.0"		

FL REQ# 27[illegible] 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.

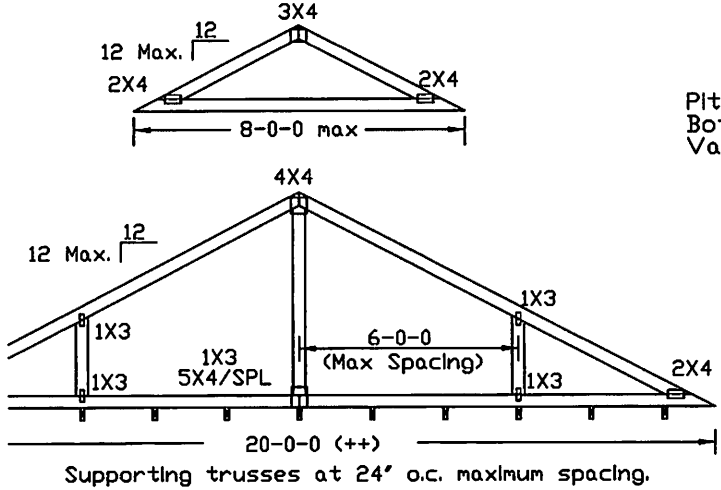
All plates shown are Alpine Wave Plates.

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.

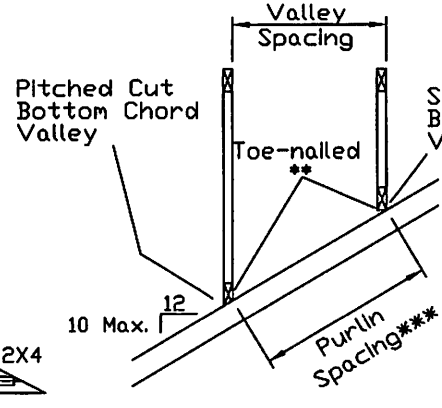
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

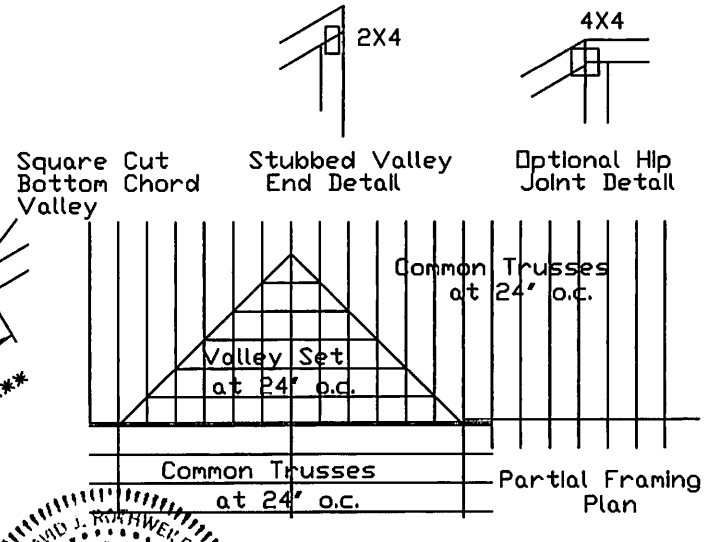
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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



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





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

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

TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BOL 1/1/2023	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

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

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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	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014