

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

11/17/2023

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

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

Site Information:	Page 1:
Customer: Kora Compoments, LLC	*Job Number:* KTQ23455-BLDG-DUPLEX-R-Rev-1
Job Description: Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	
Address: GLADES COUNTY, FLORIDA	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 22.02.00 *JRef #:* 1XUU94190004
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 145 *Building Type:* Closed	*Design Loading (psf):* 45.00, 58.00

This package contains general notes pages, 34 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	320.23.1707.36723	A01
3	320.23.1707.45057	A03
5	320.23.1707.51870	A05
7	320.23.1707.58073	B01
9	320.23.1708.05687	B03
11	320.23.1708.09240	B05
13	320.23.1709.15500	B06-B
15	320.23.1709.19170	B08
17	320.23.1547.59959	CJ02
19	320.23.1547.59928	F01
21	320.23.1709.47663	G02
23	320.23.1709.50680	G04
25	320.23.1710.11103	GE01
27	320.23.1548.00211	J01
29	320.23.1710.15253	J03
31	320.23.1548.00258	V01
33	320.23.1547.59944	V03
35	A18030ENC160118	
37	GBLLETIN0118	
39	STRBRIBR1014	

Item	Drawing Number	Truss
2	320.23.1707.41233	A02
4	320.23.1707.48253	A04
6	320.23.1707.56213	A06
8	320.23.1708.00113	B02
10	320.23.1708.07573	B04
12	320.23.1708.11123	B06
14	320.23.1709.22567	B07
16	320.23.1547.59898	CJ01
18	320.23.1709.21720	CJ03
20	320.23.1709.40740	G01
22	320.23.1548.00227	G03
24	320.23.1709.54093	G05
26	320.23.1548.00289	GE02
28	320.23.1710.13690	J02
30	320.23.1710.17567	PB01
32	320.23.1547.59899	V02
34	320.23.1547.59960	V04
36	BRCLBSUB0119	
38	PB180101014	

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.

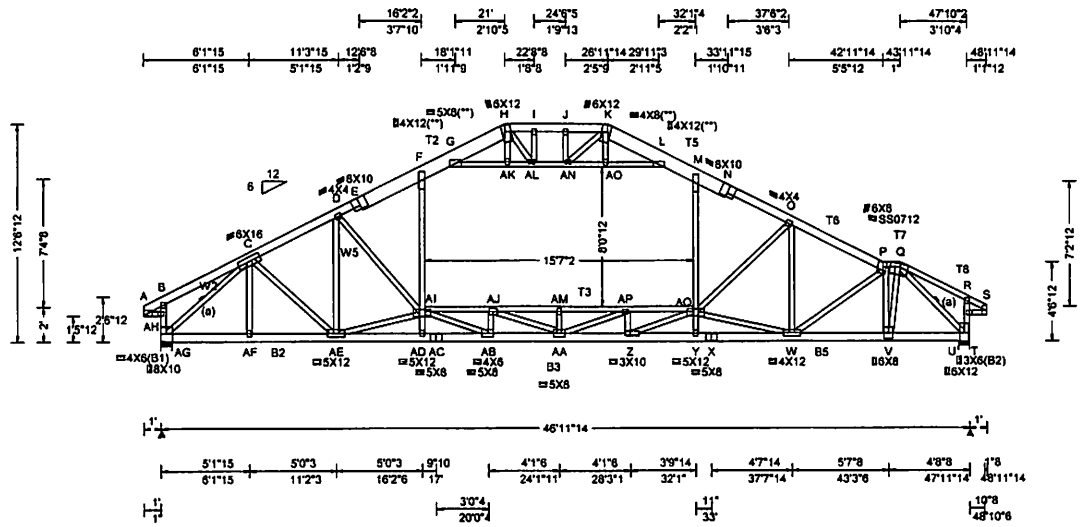
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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: 119522 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A01	Cust: R 9419 JRef: 1XUU94190004 T34 DrwNo: 320.23.1707.36723 / FK 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): 0.248 AP 999 640
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.505 AP 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.063 F - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.149 F - -
NCBCLL:	10.00	Mean Height: 27.99 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.676
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.592
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.846
		C&C Dist a: 4.90 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

Lumber

Top chord: 2x6 SPF #1/#2; T2,T5 2x10 SP #1; T3 2x4 SPF #1/#2; T6 2x6 SP 2400f-2.0E; T7, T8 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SPF #1/#2; B2, B3 2x6 SP 2400f-2.0E; B5 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 1650f-1.5E; W5 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
AG	3396	/-	/-	/1531	/999	/436
U	3362	/-	/-	/1529	/997	/-

Wind reactions based on MWFRS
AG Brg Wid = 7.6 Min Req = 2.8 (Truss)
U Brg Wid = 7.6 Min Req = 5.3 (Truss)
Bearings AG & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

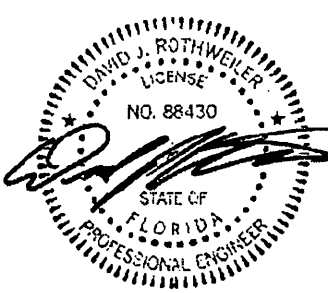
Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	2307	-4436	J - K	1002	-849
D - E	2476	-4859	K - L	1034	-1046
E - F	2502	-4819	L - M	2376	-4150
F - G	2385	-4107	M - N	2462	-4759
G - H	1038	-1099	N - O	2450	-4872
H - I	1012	-856	O - P	2473	-4703
I - J	1005	-849	P - Q	1839	-3179

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AG-AF	3151	-1581	AA- Z	4876	-1517
AF-AE	3153	-1580	Z - Y	3393	-1948
AE-AD	2568	-1508	Y - X	3384	-1942
AD-AC	2569	-1507	X - W	3384	-1942
AC-AB	2569	-1507	W - V	3378	-1633
AB-AA	4425	-1395	V - U	2698	-1298

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AH	384	-361	AM-AP	0	-1099
AG- C	2062	-4310	AN-AO	1675	-3546
C -AE	1018	-260	AO- K	466	-189
AE- D	423	-1178	AO- L	1699	-3604
AE-AI	2177	-734	AP- Z	206	-727
D -AI	770	-419	AP-AQ	480	-944
F -AI	1445	-287	Z -AQ	2106	-430
AI-AB	2600	-392	AQ- M	1310	-216
AI-AJ	554	-483	AQ- O	519	-574
G -AK	1698	-3514	AQ- W	1485	-682
AB-AJ	193	-919	O - W	319	-851
AJ-AA	1130	-417	W - P	1036	-299
AJ-AM	0	-1099	P - V	1465	-2787
H -AK	453	-178	Q - V	2898	-1406
AK-AL	1675	-3458	Q - U	1921	-4022



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

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

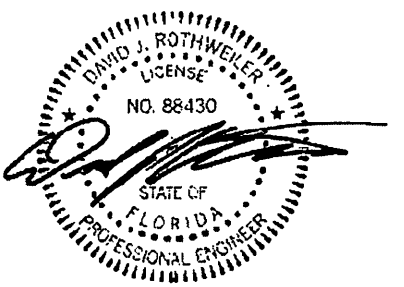
Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

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

SEQN: 119522 SPEC FROM: Page 2 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A01	Cust: R 9419 JRef:1XUU94190004 T34 DrwNo: 320.23.1707.36723 / FK 11/16/2023

AL-AN	1543	-3425	U - T	460	-295
AA-AP	703	-444	T - R	513	-309



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

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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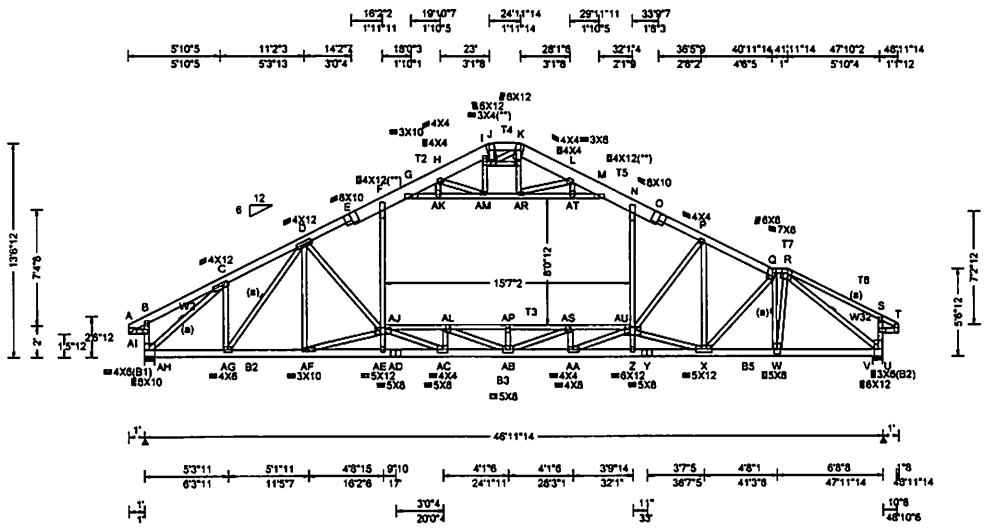
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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.

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

SEQN: 119524 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A02	Cust: R 9419 JRef: 1XUU94190004 T11 DrwNo: 320.23.1707.41233 / FK 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: 28.49 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.90 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.245	AP	999	640
VERT(CL): 0.485	AS	999	240
HORZ(LL): 0.072	F	-	-
HORZ(TL): 0.168	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.682
Max BC CSI: 0.296
Max Web CSI: 0.862

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AH	3462	/-	/-	/1527	/1012	/478
V	3377	/-	/-	/1524	/1010	/-

Wind reactions based on MWFRS
AH Brg Wid = 7.6 Min Req = 2.9 (Truss)
V Brg Wid = 7.6 Min Req = 2.8 (Truss)
Bearings AH & V 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	1359	-3721	K - L	642	-770
D - E	1628	-4891	L - M	969	-1524
E - F	1640	-4794	M - N	1569	-4177
F - G	1597	-4157	N - O	1621	-4832
G - H	948	-1536	O - P	1611	-4917
H - I	644	-773	P - Q	1645	-4704
I - J	544	-503	Q - R	1389	-3642
J - K	605	-536			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AH-AG	3175	-982	AB-AA	4858	-924
AG-AF	3994	-1112	AA- Z	3332	-1238
AF-AE	2813	-1259	Z - Y	3326	-1236
AE-AD	2817	-1266	Y - X	3326	-1236
AD-AC	2817	-1266	X - W	3792	-1158
AC-AB	4599	-846	W - V	3278	-1008

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AH- C	1312	-4365	AP-AS	0	-1123
C -AG	1185	-128	AR-AT	846	-3146
AG- D	239	-1294	AR- L	433	-675
D -AF	253	-443	AS-AA	221	-778
D -AJ	721	-429	AS-AU	525	-882
AF-AJ	2024	-650	AA-AU	2258	-468
F -AJ	1398	-114	AT- L	665	-158
AJ-AC	2525	-419	AT- M	864	-3221
AJ-AL	535	-655	AU- N	1437	-172
G -AK	907	-3195	AU- P	539	-631
H -AK	661	-169	AU- X	1742	-795
H -AM	418	-716	P - X	330	-957
AK-AM	888	-3122	X - Q	701	-50
AC-AL	203	-886	Q - W	871	-2580

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,T5 2x10 SP #1; T3 2x4 SPF #1/#2; T4 2x6 SPF #1/#2; T7, T8 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SPF #1/#2; B2,B3, B5 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 1650f-1.5E; W32 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

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

Attic room loading from 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

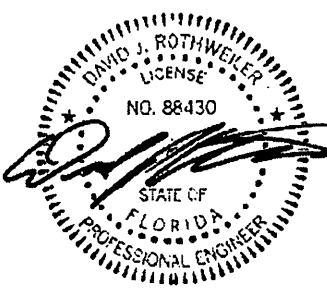
Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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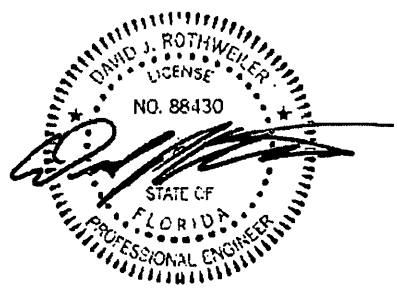
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AL-AB	1060	-439	W - R	2715	-803
AL-AP	0	-1123	R - V	1259	-4330
AM-AR	1134	-3736	V - U	419	-392
AB-AS	824	-464	U - S	478	-443

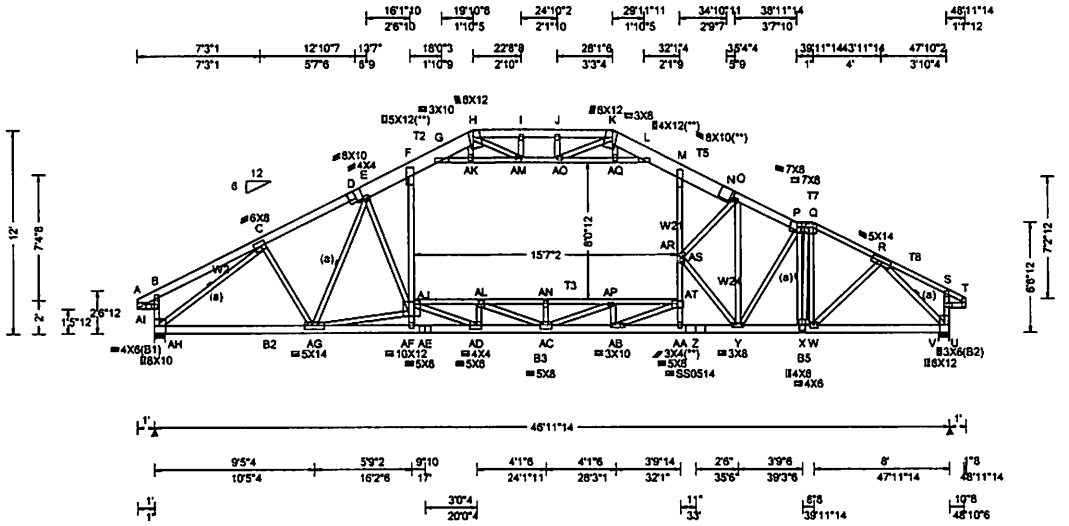


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SEQN: 119536 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A03	Cust: R 9419 JRef: 1XUU94190004 T51 DrwNo: 320.23.1707.45057 / FK 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): 0.250 AN 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.512 AL 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.082 F - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.212 F - -
NCBCLL: 10.00	Mean Height: 27.71 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.726
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.772
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.728
	C&C Dist a: 4.90 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AH	3396	/-	/-	/1594	/721	/413
V	3362	/-	/-	/1605	/727	/-

Wind reactions based on MWFRS
AH Brg Wid = 7.6 Min Req = 2.8 (Truss)
V Brg Wid = 7.6 Min Req = 5.3 (Truss)
Bearings AH & V 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	1028	-4368	K - L	290	-1558
D - E	1031	-4189	L - M	968	-4001
E - F	1149	-4856	M - N	1077	-4712
F - G	1009	-3972	N - O	1054	-4721
G - H	275	-1598	O - P	1158	-4652
H - I	89	-1345	P - Q	1081	-3841
I - J	80	-1343	Q - R	1087	-4126
J - K	83	-1343			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AH-AG	3423	-726	AB-AA	3889	-502
AG-AF	3335	-1291	AA- Z	3981	-444
AF-AE	3345	-1307	Z - Y	3981	-444
AE-AD	3345	-1307	Y - X	3961	-761
AD-AC	5109	-466	X - W	3634	-710
AC-AB	5373	-267	W - V	2693	-675

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AI	359	-389	AO- K	495	-235
AH- C	890	-4472	AO-AQ	937	-2989
C -AG	817	0	AP-AB	125	-692
AG- E	300	-1081	AP-AT	0	-1257
AG-AJ	2221	-947	K -AQ	631	-175
E -AJ	643	-750	AB-AT	1670	-10
F -AJ	1856	-348	AQ- L	936	-2983
AJ-AD	2684	-292	AR-AS	1388	-95
AJ-AL	668	-1499	AR- M	1467	-338
G -AK	1057	-2927	AR- O	382	-430
AK- H	609	-197	AS-AT	1290	-88
AK-AM	1058	-2933	AT-AA	488	-88
AM-AI	1057	-2927	AT- Y	106	-569
AL-AC	1051	-222	Y - P	458	-61

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,T5 2x10 SP #1;
T3,T7,T8 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,
B3 2x6 SP 2400f-2.0E; B5 2x6 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W2,W21,
W24 2x4 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

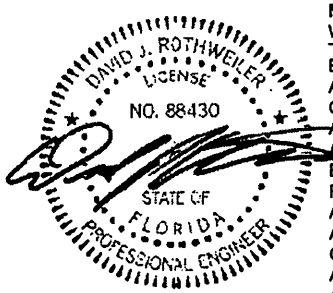
Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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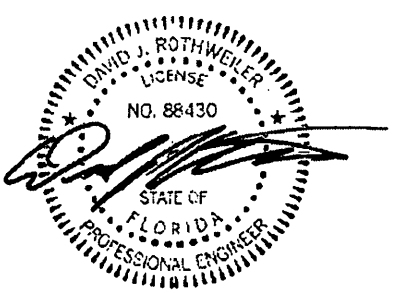
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SEQN: 119536 SPEC FROM: Page 2 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A03	Cust: R 9419 JRef: 1XUU94190004 T51 DrwNo: 320.23.1707.45057 / FK 11/16/2023

AL-AN	142	-1995	P - X	409	-2359
AM-AO	1077	-2735	X - Q	1881	-344
AC-AP	694	-295	W - R	1348	-88
AN-AP	142	-1995	R - V	1022	-4051



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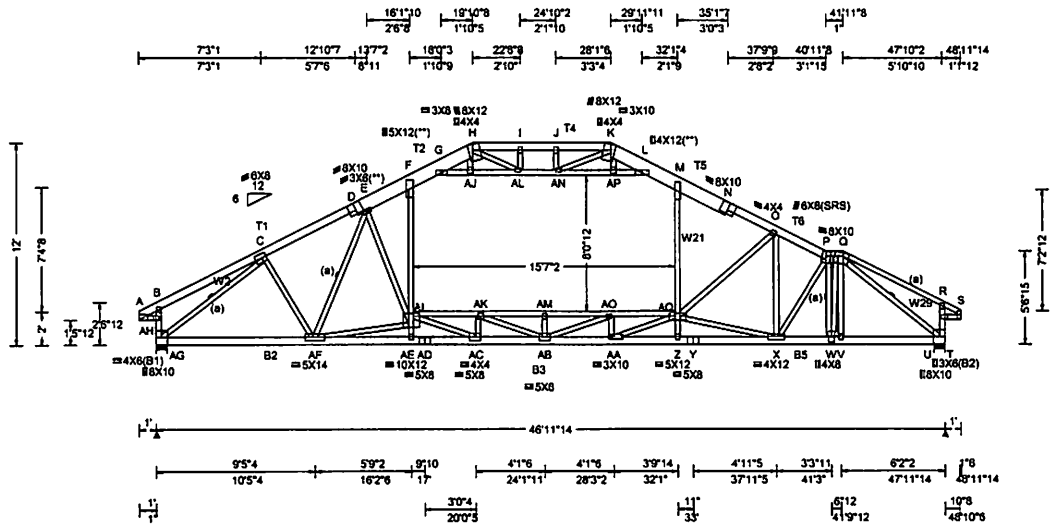
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SEQN: 119543 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A04	Cust: R 9419 JRef: 1XUU94190004 T49 DrwNo: 320.23.1707.48253 / FK 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): 0.242 AO 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.504 AO 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.059 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.142 E - -
NCBCLL: 10.00	Mean Height: 27.71 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.594
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.303
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.855
	C&C Dist a: 4.90 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 6.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AG	3396	/-	/-	/1593	/722	/413
U	3362	/-	/-	/1604	/727	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1016	-4367	J - K	29	-1183
D - E	1019	-4188	K - L	199	-1433
E - F	1101	-4954	L - M	926	-4103
F - G	940	-4075	M - N	976	-4755
G - H	246	-1462	N - O	957	-4841
H - I	36	-1184	O - P	1140	-4590
I - J	27	-1184	P - Q	1004	-3599

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AG-AF	3423	-724	AA- Z	3539	-958
AF-AE	2520	-954	Z - Y	3528	-954
AE-AD	2518	-966	Y - X	3528	-954
AD-AC	2518	-966	X - W	3752	-754
AC-AB	4578	-388	W - V	3306	-672
AB-AA	4956	-502	V - U	3291	-671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AH	364	-381	AN- K	444	-144
AG- C	874	-4477	AN-AP	1035	-3282
C -AF	819	0	AO-AA	180	-745
AF- E	179	-1146	AO-AQ	523	-1141
AF-AI	2465	-444	K -AP	689	-192
E -AI	527	-579	AA-AQ	2112	-301
F -AI	1847	-395	AP- L	1034	-3275
AI-AE	377	0	AQ- M	1350	-145
AI-AC	2774	-268	AQ- O	520	-574
AI-AK	321	-613	AQ- X	1461	-675
G -AJ	975	-3214	O - X	195	-902
AJ- H	669	-184	X - P	832	-1
AJ-AL	977	-3221	P - W	528	-2667
AL-AK	147	-886	W - Q	2184	-416
AK-AB	1099	-295	V - Q	563	-46

Lumber

Top chord: 2x4 SPF #1/#2; T1,T4 2x6 SPF #1/#2; T2 2x10 SP #1; T5 2x10 SP 2400f-2.0E; T6 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SPF #1/#2; B2,B3, B5 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2 2x4 SP 2400f-2.0E; W21, W29 2x4 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

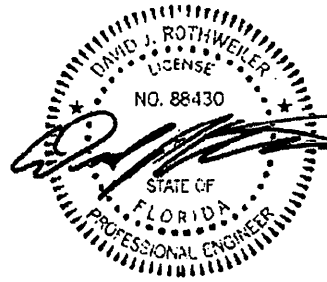
Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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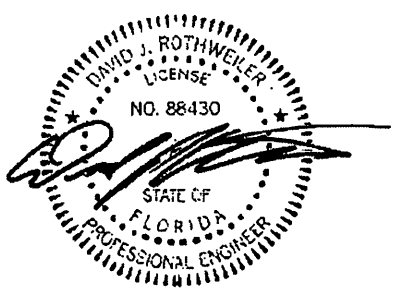
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SEQN: 119543 SPEC	Ply: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T49
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1707.48253
Page 2 of 2		**Truss Label:** A04	/ FK 11/16/2023

AK-AM	11	-1280	Q - U	780	-4336
AL-AN	1053	-3009	U - T	423	-397
AB-AO	750	-365	T - R	489	-454
AM-AO	11	-1280			



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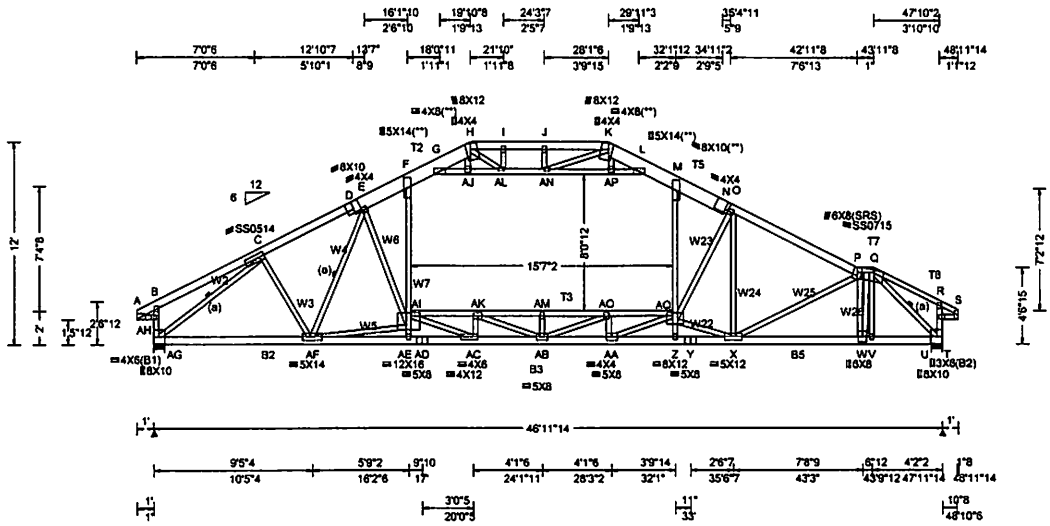
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119554 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A05	Cust: R 9419 JRef: 1XUU94190004 T50 DrwNo: 320.23.1707.51870 / FK 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): 0.245 AM 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.508 AO 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.064 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.154 E - -
NCBCLL: 10.00	Mean Height: 0.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.505
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.376
Spacing: 28.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: No	Max Web CSI: 0.857
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 7.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AG	3962	/-	/-	/1858	/838	/481
U	3922	/-	/-	/1870	/843	/-

Wind reactions based on MWFRS
AG Brg Wid = 7.6 Min Req = 3.3 (Truss)
U Brg Wid = 7.6 Min Req = 3.2 (Truss)
Bearings AG & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1178	-5092	J - K	135	-1588
D - E	1182	-4884	K - L	318	-1942
E - F	1262	-5783	L - M	1071	-4756
F - G	1083	-4744	M - N	1232	-5679
G - H	340	-1843	N - O	1206	-5690
H - I	148	-1577	O - P	1226	-5597
I - J	133	-1581	P - Q	1030	-3743

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AG-AF	3989	-842	AA- Z	3880	-951
AF-AE	2825	-1109	Z - Y	3873	-948
AE-AD	2825	-1126	Y - X	3873	-948
AD-AC	2825	-1126	X - W	3978	-834
AC-AB	5287	-396	W - V	3225	-666
AB-AA	5630	-438	V - U	3206	-661

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AH	420	-459	AM-AB	3	-414
AH-AG	418	-415	AM-AO	37	-1475
AG- C	1009	-5209	AN- K	407	-235
C -AF	964	0	AN-AP	1073	-3443
AF- E	196	-1321	AO-AA	226	-882
AF-AI	2977	-489	AO-AQ	599	-1252
E -AI	620	-703	K -AP	745	-199
F -AI	2186	-441	AA-AQ	2712	-395
AI-AE	429	0	AP- L	1072	-3434
AI-AC	3332	-312	AQ- M	1963	-449
AI-AK	370	-698	AQ- O	832	-976
G -AJ	1055	-3554	AQ- X	2262	-952
AJ- H	711	-199	O - X	437	-1170
AJ-AL	1057	-3560	X - P	1081	0
H -AL	1057	-3560	X - R	896	-3445

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,
T5 2x10 SP 2400f-2.0E; T3 2x4 SP 2400f-2.0E; T7,
T8 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B3,
B5 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2,W3,W4,W5,W6,W7,W22,W23,
W24,W25,W26 2x4 SP 2400f-2.0E;

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 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Wind

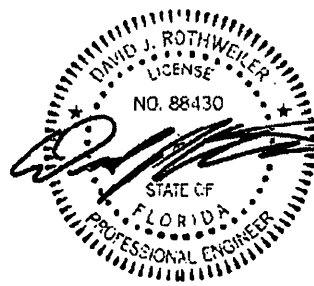
Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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



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

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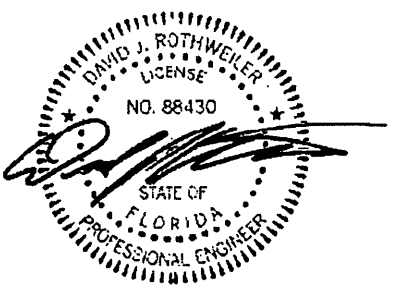
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 119554 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T50
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1707.51870
Page 2 of 2		Truss Label: A05	/ FK 11/16/2023

AC-AK	167	-1009	W - Q	3071	-670
AK-AB	1246	-322	V - Q	557	-147
AK-AM	37	-1475	Q - U	992	-4777
AL-AN	1127	-3287	T - R	402	-354
AB-AO	929	-404			



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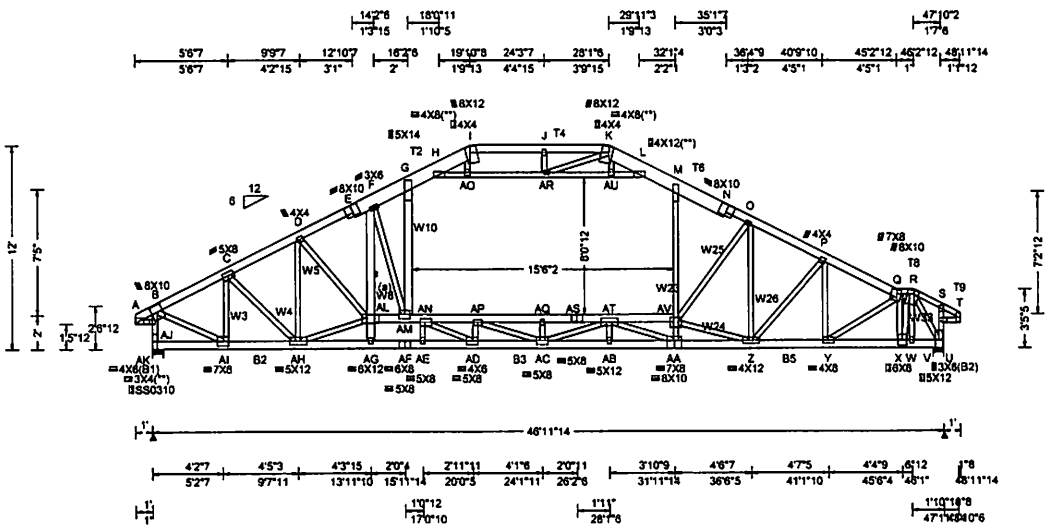
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SEQN: 119567 SPEC FROM: Page 1 of 2	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** A06	Cust: R 9419 JRef:1XUU94190004 T47 DrwNo: 320.23.1707.56213 / FK 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): 0.254 AQ 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.510 AT 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.062 F - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.149 F - -
NCBCLL: 10.00	Mean Height: 0.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.734
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.463
Spacing: 28.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: No	Max Web CSI: 0.860
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 15.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AK	3941 /-	/-	/1851	/709	/481
V	3931 /-	/-	/1873	/717	/-

Wind reactions based on MWFRS
AK Brg Wid = 7.6 Min Req = 3.3 (Truss)
V Brg Wid = 7.6 Min Req = 3.3 (Truss)
Bearings AK & V 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	897	-3996	J - K	136	-1496
C - D	1140	-5063	K - L	277	-1827
D - E	1197	-5787	L - M	1057	-4826
E - F	1206	-5673	M - N	1160	-5615
F - G	1262	-5974	N - O	1137	-5663
G - H	1072	-4785	O - P	1234	-5529
H - I	190	-1998	P - Q	1153	-5075
I - J	135	-1500	Q - R	681	-2558

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AK-AI	533	-493	AC-AB	5369	-461
AI-AH	3569	-768	AB-AA	5369	-461
AH-AG	3414	-1026	AA- Z	3870	-934
AG-AF	3398	-1061	Z - Y	4542	-833
AF-AE	3398	-1061	Y - X	2904	-625
AE-AD	3387	-1063	X - W	1830	-384
AD-AC	5128	-508	W - V	1803	-378

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AJ-AK	1012	-3884	AQ-AC	16	-475
AJ- B	987	-3874	AQ-AS	0	-1357
B -AL	3809	-723	AR- K	498	-220
AI- C	410	-1716	AR-AU	1100	-3682
C -AH	1289	-67	AS-AT	0	-1357
AH- D	181	-1403	AT-AA	452	-2493
AH-AL	1840	-436	AT-AV	2150	-1032
D -AL	1216	-250	K -AU	795	-197
AL- F	155	-472	AU- L	1099	-3675
AL-AM	2598	-581	AA-AV	1379	-162
F -AM	556	-850	AV- M	1670	-275
AM- G	2459	-442	AV- O	631	-695
AM-AN	2475	-647	AV- Z	1947	-785

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2, T6 2x10 SP 2400f-2.0E; T4 2x6 SPF #1/#2; T8, T9 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2,B3, B5 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W3,W5,W24,W25,W26, W33 2x4 SP 2400f-2.0E; W4,W23 2x4 SPF 1650f-1.5E; W8,W10 2x6 SP 2400f-2.0E;

Bracing

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

Plating Notes

All plates are 3X4 except as noted.

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

Loading

Attic room loading from 16-5-2 to 31-11-4: Live Load: 40 PSF, Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

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

Wind

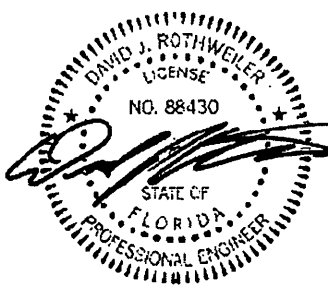
Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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

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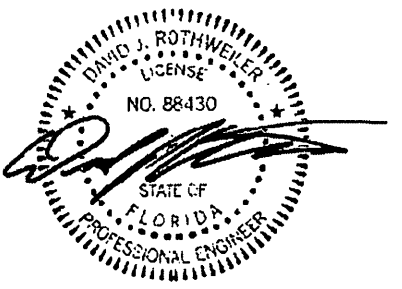
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Glenview, IL 60025

SEQN: 119567 SPEC	Ply: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T47
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1707.56213
Page 2 of 2		**Truss Label:** A06	/ FK 11/16/2023

AN-AD	2517	-168	O - Z	319	-925
AN-AP	674	-632	Z - P	567	-59
H -AO	1130	-3431	P - Y	209	-1025
AO- I	777	-202	Y - Q	1987	-274
AO-AR	1132	-3438	Q - X	869	-3609
AD-AP	138	-1161	X - R	3221	-718
AP-AC	1349	-348	W - R	582	-130
AP-AQ	0	-1357	R - V	949	-4173
AC-AT	1178	-473			



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

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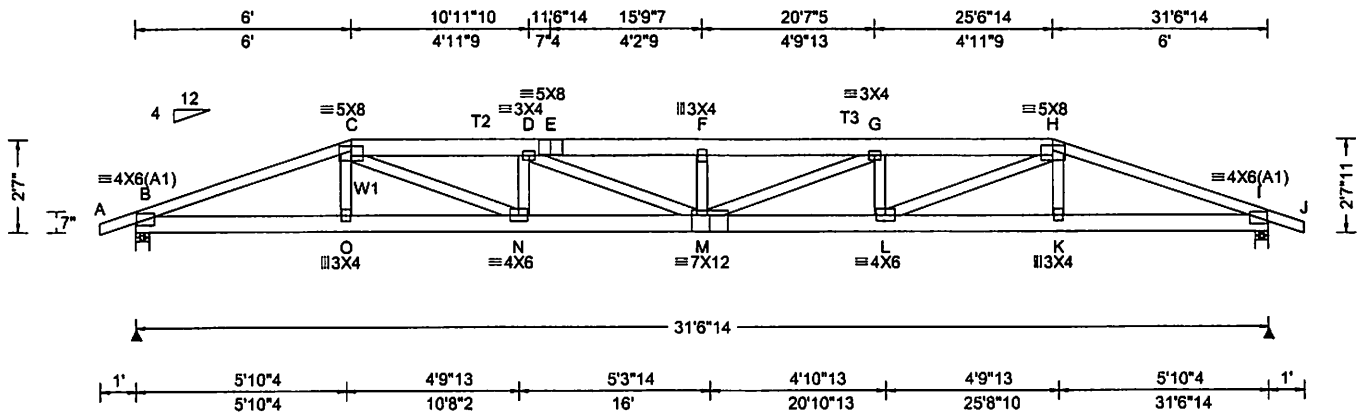
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Glenview, IL 60025

SEQN: 119495 HIPS FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B01	Cust: R 9419 JRef: 1XUU94190004 T31 DrwNo: 320.23.1707.58073 / FK 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): -0.274 F 999 640
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.496 F 757 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.042 I - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.079 I - -
NCBCLL:	10.00	Mean Height: 32.19 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.297
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.285
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.470
		C&C Dist a: 3.16 ft	FT/RT:20(0)/10(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: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1522	/-	/-	/879	/1047	/68
I	1522	/-	/-	/879	/1047	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
I Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings B & 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	3138	-3309	F - G	5224	-5229
C - D	4671	-4674	G - H	4669	-4673
D - E	5224	-5229	H - I	3135	-3309
E - F	5224	-5229			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	3076	-2827	M - L	4753	-4574
O - N	3079	-2840	L - K	3079	-2862
N - M	4754	-4551	K - I	3076	-2849

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - N	1756	-1889	M - G	520	-541
N - D	805	-599	G - L	805	-599
D - M	520	-541	L - H	1755	-1890
F - M	489	-338			

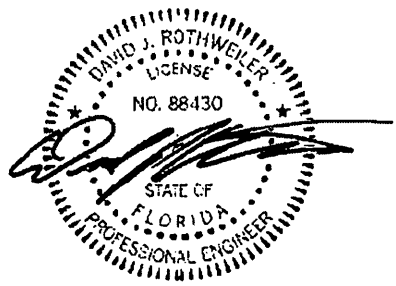
Lumber

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; W1 2x4 SPF #1/#2;

Wind

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

Wind loading based on both gable and hip roof types.



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

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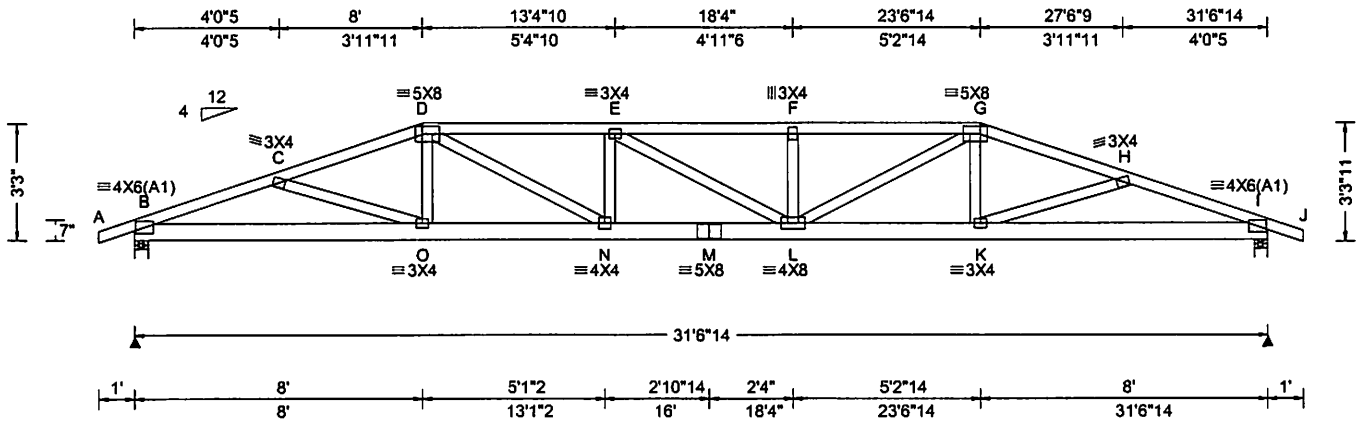
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119497 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B02	Cust: R 9419 JRef: 1XUU94190004 T3 DrwNo: 320.23.1708.00113 / FK 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): -0.231 F 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.401 F 936 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.040 I - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.070 I - -
NCBCLL: 10.00	Mean Height: 32.52 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.314
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.283
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.635
	C&C Dist a: 3.16 ft	FT/RT:20(0)/10(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: 1.60		

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1522	/-	/-	/871	/1050	/84
I	1522	/-	/-	/871	/1050	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
I Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

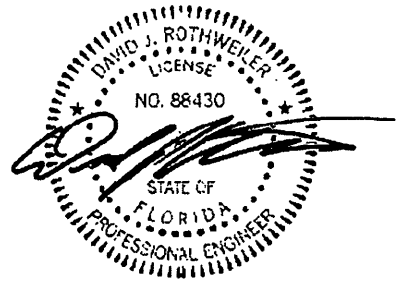
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	3034	-3335	F - G	3716	-3809
C - D	2876	-3115	G - H	2876	-3117
D - E	3698	-3793	H - I	3035	-3338
E - F	3716	-3809			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	3097	-2737	M - L	3830	-3479
O - N	2925	-2530	L - K	2927	-2555
N - M	3830	-3479	K - I	3099	-2762

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	996	-1103	F - L	537	-356
N - E	564	-361	L - G	1005	-1122



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

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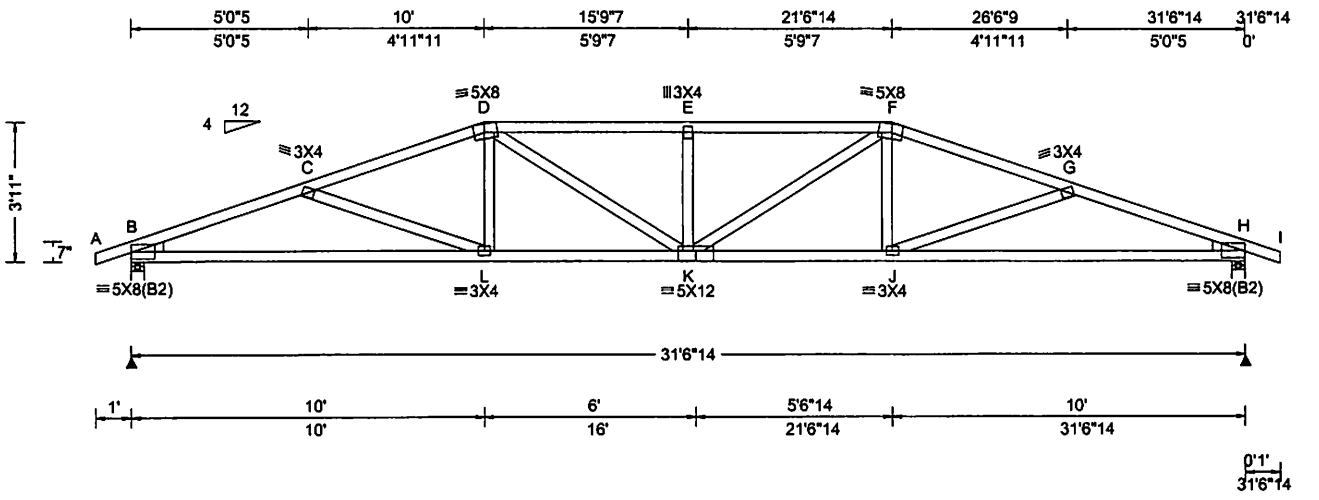
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119228 HIPS FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B03	Cust: R 9419 JRef: 1XUU94190004 T8 DrwNo: 320.23.1708.05687 / FK 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: 32.85 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.286 E	999	640
VERT(CL):	0.464 E	814	240
HORZ(LL):	-0.092 H	-	-
HORZ(TL):	0.145 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.517
Max BC CSI: 0.576
Max Web CSI: 0.515

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1522	/-	/-	/859	/1052	/99
H	1522	/-	/-	/859	/1052	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
H Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings B & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	2818	-3296	E - F	3017	-3194
C - D	2574	-2956	F - G	2573	-2956
D - E	3017	-3194	G - H	2817	-3296

Maximum Bot Chord Forces Per Ply (lbs)

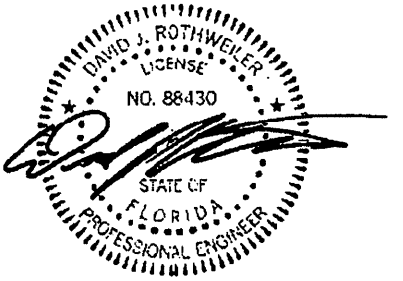
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	3039	-2519	K - J	2763	-2226
L - K	2763	-2203	J - H	3039	-2541

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - L	429	-296	K - F	508	-678
D - K	508	-678	J - G	429	-296
E - K	641	-411			

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

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



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

11/17/2023

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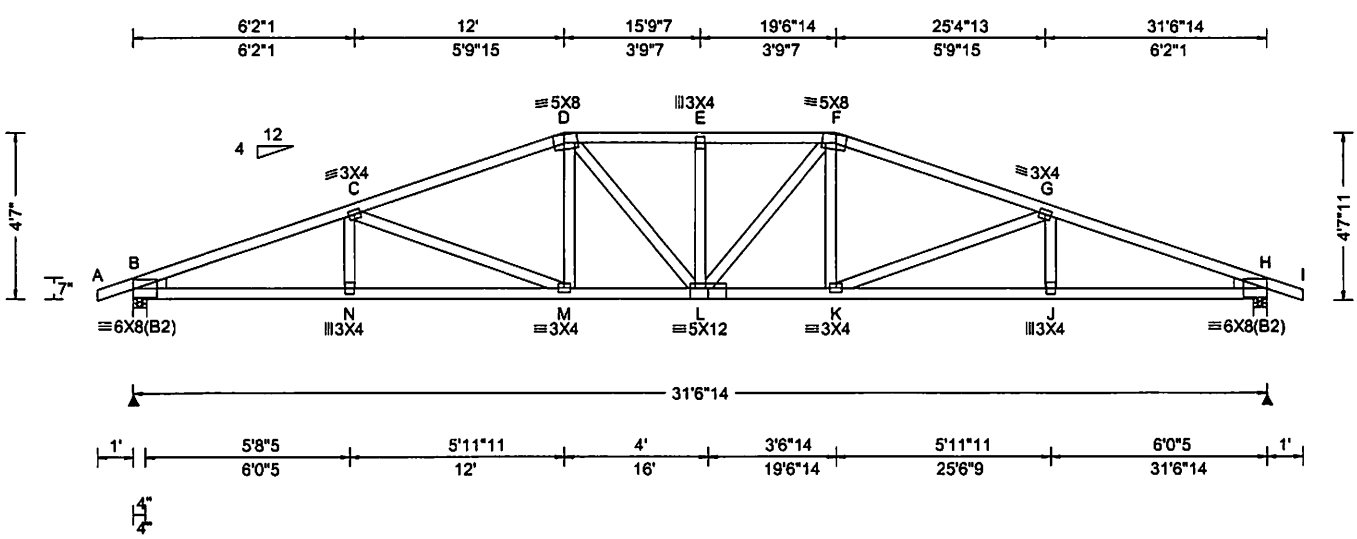
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119219 HIPS FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B04	Cust: R 9419 JRef: 1XUU94190004 T30 DrwNo: 320.23.1708.07573 / FK 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: 33.19 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.279	E	999	640
VERT(CL): 0.507	E	745	240
HORZ(LL): -0.076	H	-	-
HORZ(TL): 0.146	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.880
Max BC CSI: 0.621
Max Web CSI: 0.376

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1522	/-	/-	/858	/1053	/115
H	1522	/-	/-	/858	/1053	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
H Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings B & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	2494	-3278	E - F	2352	-2646
C - D	2288	-2754	F - G	2288	-2754
D - E	2352	-2646	G - H	2492	-3278

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	3026	-2217	L - K	2551	-1900
N - M	3027	-2225	K - J	3027	-2247
M - L	2551	-1876	J - H	3026	-2240

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	465	-511	F - K	398	-164
D - M	398	-164	K - G	465	-511
E - L	381	-201			

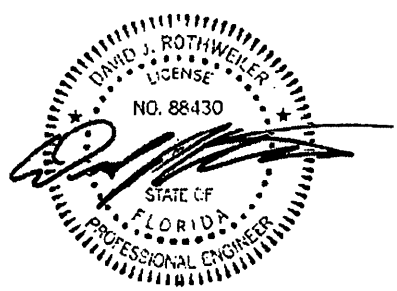
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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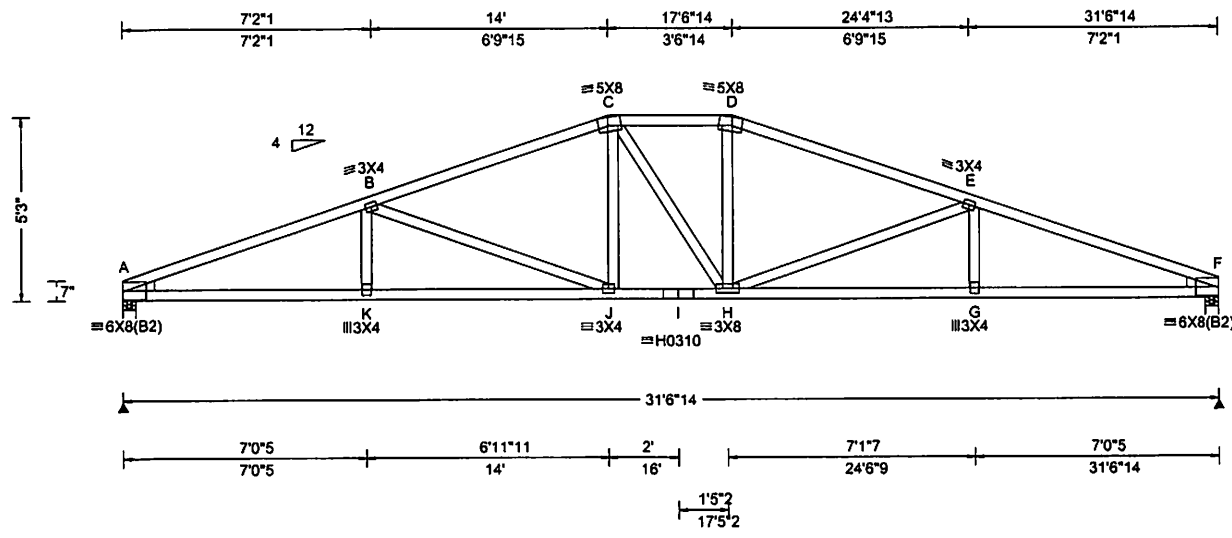
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119216 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B05	Cust: R 9419 JRef: 1XUU94190004 T53 DrwNo: 320.23.1708.09240 / FK 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: 33.69 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.264 H	999	640
VERT(CL):	0.490 J	772	240
HORZ(LL):	-0.077 F	-	-
HORZ(TL):	0.148 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.894
Max BC CSI: 0.594
Max Web CSI: 0.782

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1446	/-	/-	/840	/994	/108
F	1446	/-	/-	/840	/994	/-

Wind reactions based on MWFRS
A Brg Wid = 4.5 Min Req = 1.5 (Truss)
F Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings A & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	2331	-3301	D - E	1935	-2517
B - C	1942	-2527	E - F	2332	-3302
C - D	1929	-2323			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - K	3045	-2092	I - H	2321	-1547
K - J	3043	-2097	H - G	3044	-2095
J - I	2321	-1547	G - F	3046	-2090

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - J	664	-775	H - D	433	-222
C - J	431	-211	H - E	670	-783

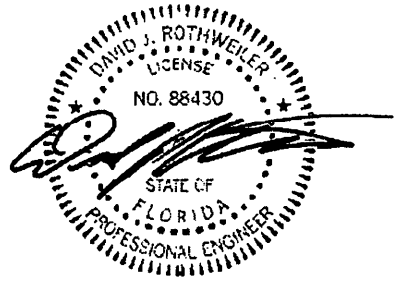
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

11/17/2023

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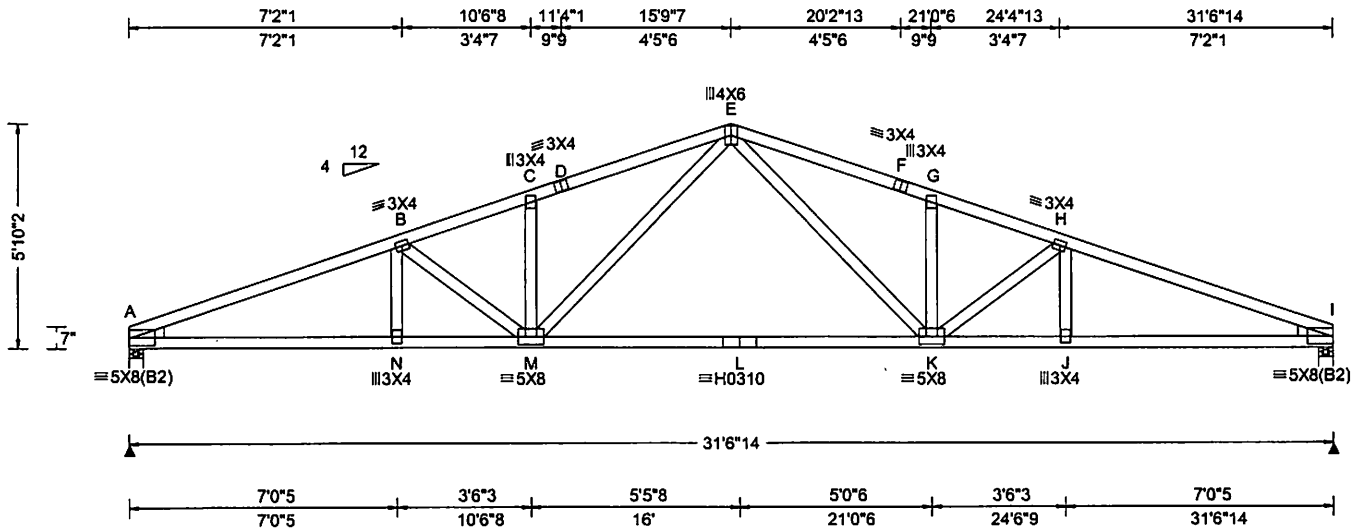
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120689 COMN FROM:	Ply: 1 Qty: 5	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B06	Cust: R 9419 JRef:1XUU94190004 T23 DrwNo: 320.23.1708.11123 / FK 11/16/2023



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):	0.190 G	999	640	Loc	R+ / R-	/ Rh		/ Rw / U	/ RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.414 G	914	240	A	1506 /-	/-		/843 /506	/122
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.061 I	-	-	I	1506 /-	/-		/843 /506	/-
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL):	0.133 I	-	-	Wind reactions based on MWFRS					
NCBCLL:	10.00	Mean Height: 33.99 ft	Building Code:	Creep Factor: 2.0				A Brg Wid = 4.5 Min Req = 1.5 (Truss)					
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.506			I Brg Wid = 4.5 Min Req = 1.5 (Truss)					
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.584			Bearings A & I are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI:	0.623			Members not listed have forces less than 375#					
		C&C Dist a: 3.16 ft	FT/RT:20(0)/10(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, HS	VIEW Ver: 22.02.00.0914.21				A - B	2129	-3392	E - F	2074	-3122
		Wind Duration: 1.60						B - C	1975	-3128	F - G	2060	-3141
								C - D	2060	-3141	G - H	1975	-3128
								D - E	2075	-3122	H - I	2130	-3392

Lumber

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

Loading

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

Wind

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

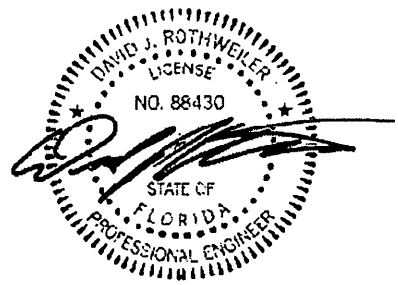
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - N	3124	-1896	L - K	2199	-1201
N - M	3127	-1900	K - J	3127	-1893
M - L	2199	-1201	J - I	3124	-1889

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - E	1061	-613	E - K	1061	-613



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

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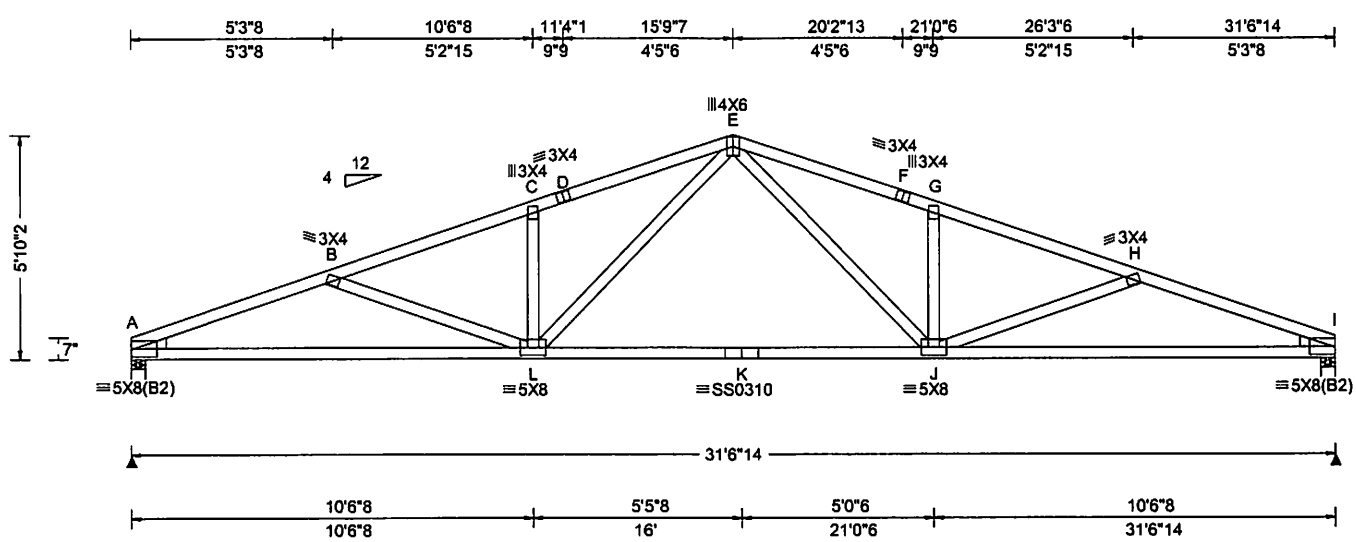
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119352 COMN FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B06-B	Cust: R 9419 JRef: 1XUU94190004 T5 DrwNo: 320.23.1709.15500 / FK 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): 0.227 G 999 640
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.494 G 765 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.076 I - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.167 I - -
NCBCLL:	10.00	Mean Height: 33.99 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.768
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.690
Spacing:	26.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.714
		C&C Dist a: 3.16 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.67 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1632	/-	/-	/913	/548	/132
I	1632	/-	/-	/913	/548	/-

Wind reactions based on MWFRS
A Brg Wid = 4.5 Min Req = 1.5 (Truss)
I Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings A & 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.
A - B	2486	-3805	E - F	2259	-3398
B - C	2101	-3406	F - G	2243	-3419
C - D	2243	-3419	G - H	2101	-3406
D - E	2259	-3398	H - I	2486	-3805

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - L	3511	-2240	K - J	2360	-1277
L - K	2360	-1277	J - I	3511	-2233

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - L	523	-350	E - J	1191	-703
C - L	495	-465	J - G	495	-465
L - E	1191	-703	J - H	523	-350

Lumber

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

Loading

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

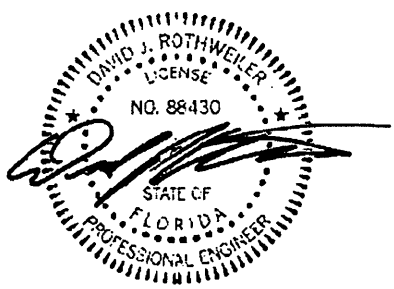
Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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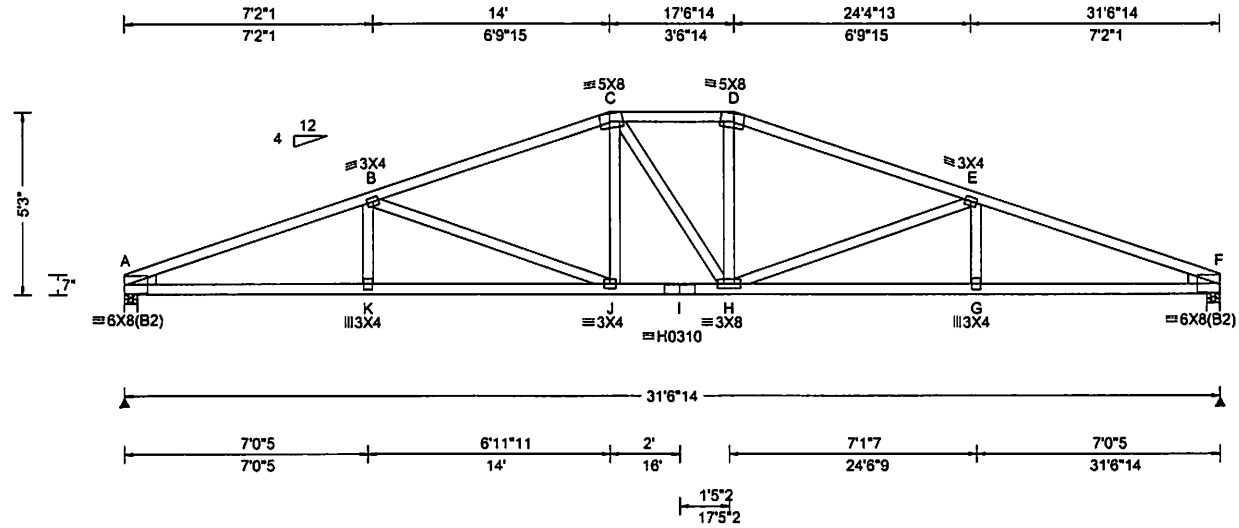
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119250 / HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B07	Cust: R 9419 JRef: 1XUU94190004 T16 / DrwNo: 320.23.1709.22567 / FK 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: 33.69 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.264	H	999	640
VERT(CL): 0.490	J	772	240
HORZ(LL): -0.077	F	-	-
HORZ(TL): 0.148	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.894
Max BC CSI: 0.594
Max Web CSI: 0.782

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1446	/-	/-	/840	/994	/108
F	1446	/-	/-	/840	/994	/-

Wind reactions based on MWFRS
A Brg Wid = 4.5 Min Req = 1.5 (Truss)
F Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings A & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	2331	-3301	D - E	1935	-2517
B - C	1942	-2527	E - F	2332	-3302
C - D	1929	-2323			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - K	3045	-2092	I - H	2321	-1547
K - J	3043	-2097	H - G	3044	-2095
J - I	2321	-1547	G - F	3046	-2090

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - J	664	-775	H - D	433	-222
C - J	431	-211	H - E	670	-783

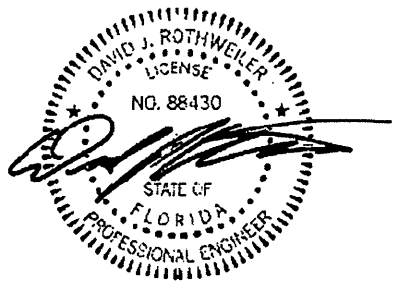
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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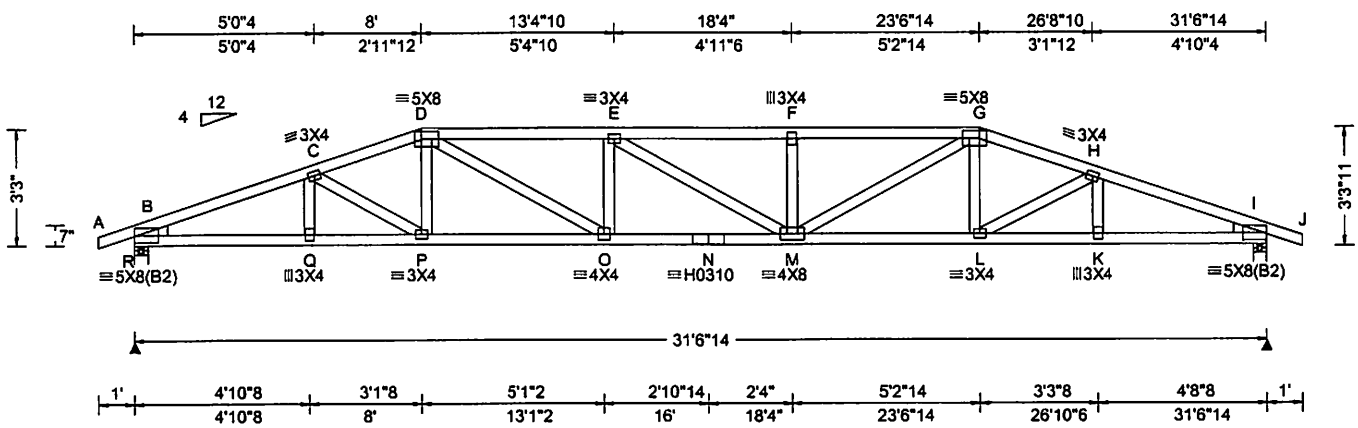
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119245 HIPS FROM:	Ply: 1 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** B08	Cust: R 9419 JRef: 1XUU94190004 T14 DrwNo: 320.23.1709.19170 / FK 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: 32.52 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.285	E	999	640
VERT(CL): 0.517	E	732	240
HORZ(LL): -0.077	I	-	-
HORZ(TL): 0.145	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.339
Max BC CSI: 0.704
Max Web CSI: 0.608

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1522	/-	/-	/871	/1052	/84
I	1522	/-	/-	/871	/1052	/-

Wind reactions based on MWFRS
R Brg Wid = 4.5 Min Req = 2.4 (Truss)
I Brg Wid = 4.5 Min Req = 2.4 (Truss)
Bearings R & 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	2847	-3204	F - G	3694	-3788
C - D	2943	-3129	G - H	2940	-3132
D - E	3660	-3758	H - I	2838	-3200
E - F	3693	-3788			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2964	-2540	N - M	3794	-3442
Q - P	2968	-2549	M - L	2957	-2608
P - O	2957	-2585	L - K	2965	-2568
O - N	3794	-3442	K - I	2961	-2559

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	927	-1006	F - M	541	-364
O - E	569	-370	M - G	954	-1045

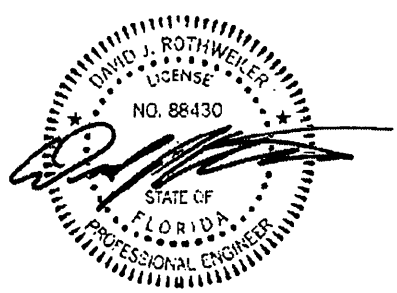
Lumber

Top chord: 2x4 SP 2400f-2.0E;
Bot chord: 2x4 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;
Lt Wedge: 2x4 SPF #1/#2;Rt Wedge: 2x4 SPF #1/#2;

Wind

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

Wind loading based on both gable and hip roof types.



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

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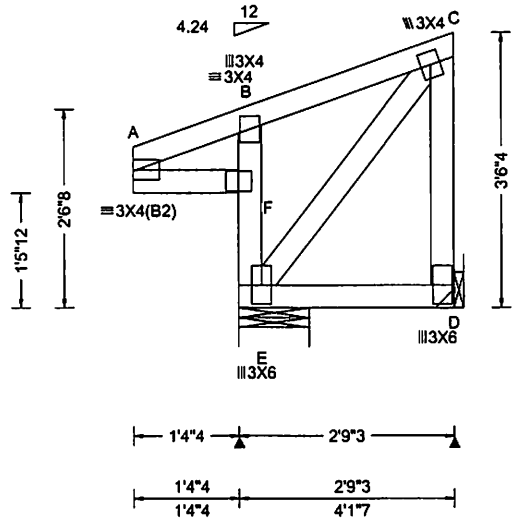
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 152368 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** CJ01	Cust: R 9419 JRef:1XUU94190004 T6 / DrwNo: 320.23.1547.59898 / 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): 0.005 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.010 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 B - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.004 F - -
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: 0.177
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.051
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.182
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	315	/-	/-	/245	/67	/100
D	85	/-	/-	/45	/143	/-

Wind reactions based on MWFRS
E Brg Wid = 10.8 Min Req = 1.5 (Truss)
D Brg Wid = - 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.	Webs	Tens.	Comp.
B - F	577	-212	C - D	425	-60
F - E	602	-241			

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

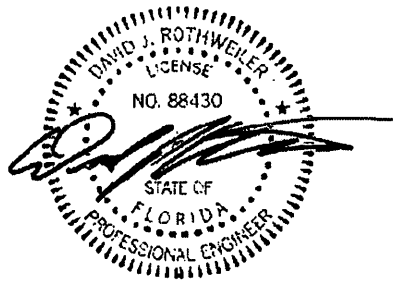
Wind

Wind loads based on MWFRS.

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



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

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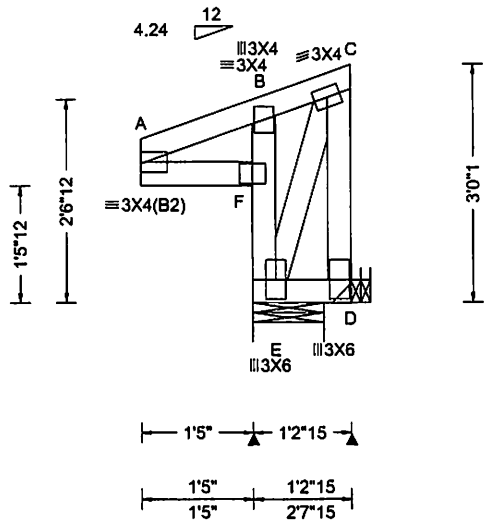
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ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 152300 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** CJ02	Cust: R 9419 JRef:1XUU94190004 T2 / DrwNo: 320.23.1547.59959 / 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): 0.007 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.013 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 F - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.004 F - -
NCBCLL: 10.00	Mean Height: 23.24 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.115
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.025
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.237
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	341	/-	/-	/321	/104	/64
D	-	/-115	/-	/32	/154	/-

Wind reactions based on MWFRS
E Brg Wid = 10.8 Min Req = 1.5 (Truss)
D Brg Wid = - 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.	Webs	Tens.	Comp.
B - F	496	-170	F - E	522	-205

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

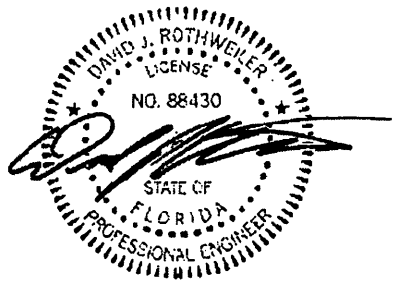
Wind

Wind loads based on MWFRS.

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



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

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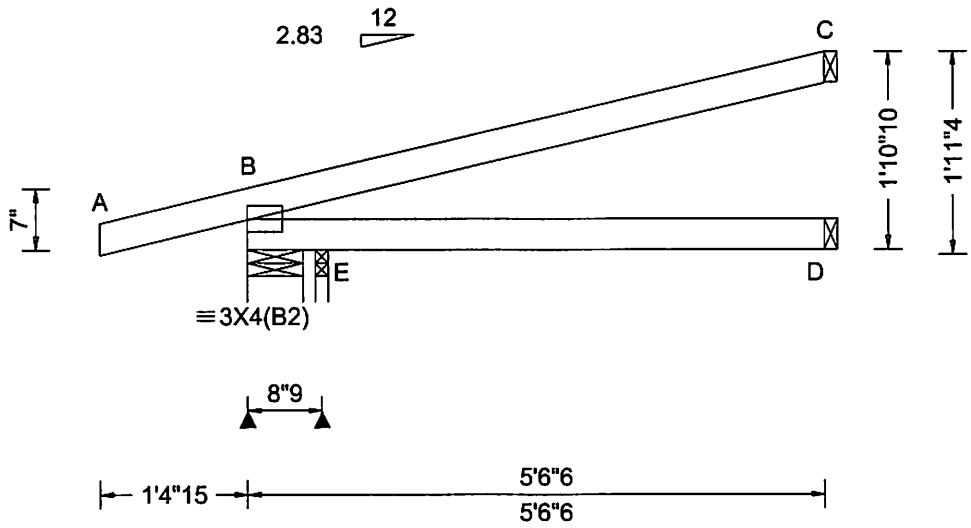
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119358 HIP_ FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** CJ03	Cust: R 9419 JRef:1XUU94190004 T29 DrwNo: 320.23.1709.21720 / FK 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): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.004 B - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.004 B - -
NCBCLL: 10.00	Mean Height: 31.84 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.285
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.187
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	-	/-38	/-	/-	/85	/-
E	296	/-	/-	/-	/28	/-
D	78	/-	/-	/5	/-	/-
C	74	/-	/-	/-	/51	/-

Wind reactions based on MWFRS
B Brg Wid = 6.4 Min Req = 1.5
E Brg Wid = 1.5 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearings B & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Special Loads

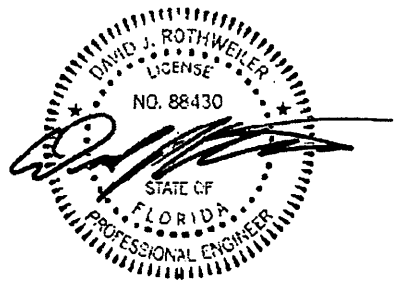
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	0 plf at	-1.41 to	71 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	5.53
BC: From	0 plf at	-1.41 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	5.53

TC: 98 lb Conc. Load at 2.75
BC: 71 lb Conc. Load at 2.75

Wind

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



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

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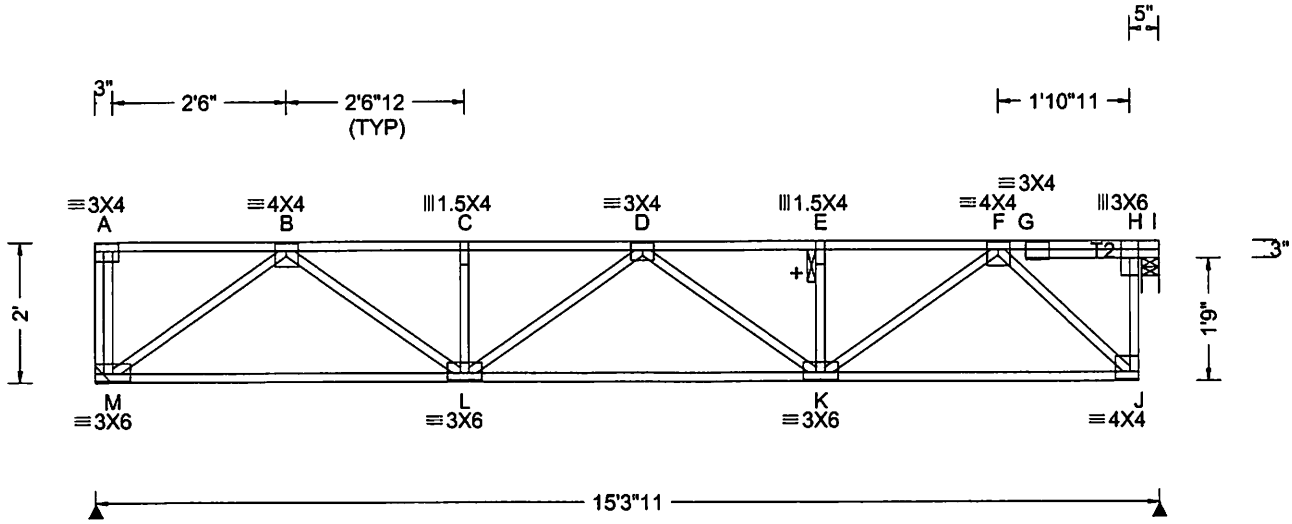
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119348 / SY42 FROM:	Ply: 1 Qty: 40	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** F01	Cust: R 9419 JRef:1XUU94190004 T7 / DrwNo: 320.23.1547.59928 / PPH 11/16/2023



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria				▲ Maximum Reactions (lbs)					
TCLL:	30.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#		Gravity		Non-Gravity		
TCDL:	18.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.048	D	999	640	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.093	D	999	480	M	597 /-	/-	/-	/-	/-
BCDL:	10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.008	B	-	-	H	583 /-	/-	/-	/-	/-
Des Ld:	58.00	EXP: NA Kzt: NA		HORZ(TL): 0.015	B	-	-	M	Brg Wid = -		Min Req = -		
NCBCLL:	10.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0				H	Brg Wid = 3.0		Min Req = 1.5 (Truss)		
Soffit:	2.00	TCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.267				Bearing H is a rigid surface.					
Load Duration:	1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.224				Members not listed have forces less than 375#					
Spacing:	16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.187				**Maximum Top Chord Forces Per Ply (lbs)**					
		C&C Dist a: NA ft	FT/RT:12(0)/10(0)					Chords	Tens.	Comp.	Chords	Tens.	Comp.
		Loc. from endwall: NA	Plate Type(s):					B - C	0	-1061	D - E	0	-1024
		I: NA GCpi: NA	WAVE	VIEW Ver: 22.02.00.0914.21				C - D	0	-1061	E - F	0	-1024
		Wind Duration: NA											

Lumber

Top chord: 4x2 SP 2400f-2.0E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SP 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Hangers / Ties

(J) Hanger Support Required, by others

Additional Notes

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

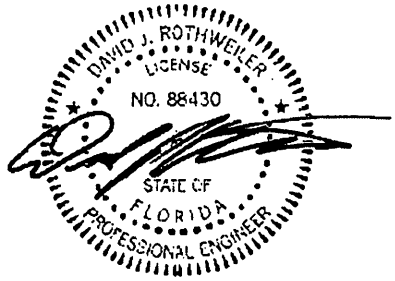
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	647	0	K - J	585	0
L - K	1159	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - B	0	-810	F - J	0	-817
B - L	512	0	H - J	581	0
K - F	544	0			



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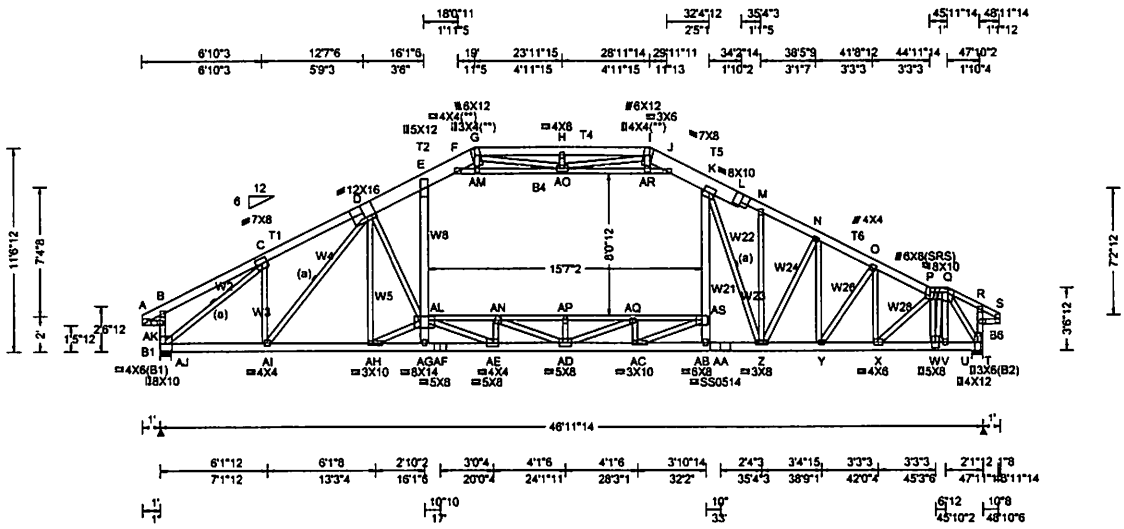
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 119519 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T24
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1709.40740
Page 1 of 2		Truss Label: G01	/ FK 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: 27.49 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.90 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.232	AP	999	640
VERT(CL): 0.476	AN	999	240
HORZ(LL): 0.081	E	-	-
HORZ(TL): 0.196	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.796
Max BC CSI: 0.387
Max Web CSI: 0.890

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AJ	3487 /-	/-	/-	/1038	/-
U	3557 /-	/-	/-	/1260	/-

Wind reactions based on MWFRS
AJ Brg Wid = 7.6 Min Req = 2.9 (Truss)
U Brg Wid = 7.6 Min Req = 2.9 (Truss)
Bearings AJ & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	1153	-4002	J - K	1172	-4126
D - E	1263	-4895	K - L	1292	-4873
E - F	1161	-4059	L - M	1316	-4909
F - G	764	-1819	M - N	1328	-4763
G - H	969	-1622	N - O	1362	-4680
H - I	969	-1622	O - P	1288	-4220
I - J	770	-1566	P - Q	797	-2406

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AJ-AI	3440	-969	AB-AA	4110	-1096
AI-AH	4112	-1092	AA- Z	4110	-1096
AH-AG	3404	-782	Z - Y	4146	-1186
AG-AF	3420	-778	Y - X	3815	-1148
AF-AE	3420	-778	X - W	2693	-881
AE-AD	5257	-759	W - V	1807	-617
AD-AC	5436	-893	V - U	1780	-604
AC-AB	3980	-1104			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B -AK	215	-377	AP-AQ	0	-1960
AJ- C	1288	-4579	AQ-AC	0	-688
C -AL	1048	-91	AQ-AS	0	-1237
AI- D	204	-1101	AC-AS	1657	0
D -AH	176	-713	AR- I	1091	-162
D -AL	618	-292	AR- J	490	-3497
AH-AL	1973	-332	AS-AB	529	0
E -AL	1717	-70	AS- K	1311	0
AL-AE	2533	0	K - Z	610	-196
AL-AN	0	-1393	Z - M	151	-728
F -AM	501	-3043	N - Y	115	-446
G -AM	858	-185	Y - O	643	-103
AM-AO	455	-2783	O - X	317	-1058

Lumber

Top chord: 2x4 SPF #1/#2; T1,
T6 2x6 SP 2400f-2.0E; T2 2x10 SP #1;
T4 2x6 SPF #1/#2; T5 2x10 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B1,
B6 2x4 SPF #1/#2; B4 2x4 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W2,W3,W4,W5,W22,W23,W24,W26,W28 2x4 SP 2400f-2.0E; W8,W21 2x6 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	74 plf at	0.00 to	74 plf at	48.99
PLT: From	22 plf at	16.34 to	22 plf at	17.72
PLT: From	20 plf at	17.72 to	20 plf at	30.27
PLT: From	22 plf at	30.27 to	22 plf at	31.94
PLT: From	100 plf at	16.34 to	100 plf at	31.94
PLB: From	40 plf at	10.12 to	40 plf at	12.85
BC: From	20 plf at	0.00 to	20 plf at	48.99

BC: 147 lb Conc. Load at 16.34
BC: 145 lb Conc. Load at 31.94
BC: 179 lb Conc. Load at 45.98

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.

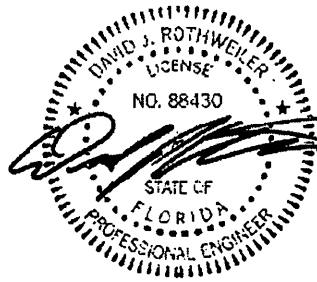
Loading

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

Attic room loading from 16-4-2 to 31-11-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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



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

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Glenview, IL 60025

SEQN: 119519 SPEC	Ply: 1	Job Number: KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T24
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1709.40740
Page 2 of 2		Truss Label: G01	/ FK 11/16/2023

Wind

Wind loads and reactions based on MWFRS.

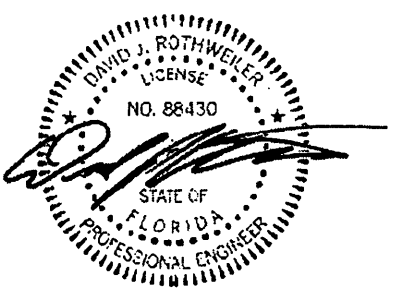
Left and right cantilevers are exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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AE-AN	32	-868	X - P	1620	-422
AN-AD	1040	-39	P - W	919	-3096
AN-AP	0	-1960	W - Q	2755	-824
AO-AR	445	-3199	V - Q	576	-279
AO- I	790	-329	Q - U	1287	-3774
AD-AQ	660	0			



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

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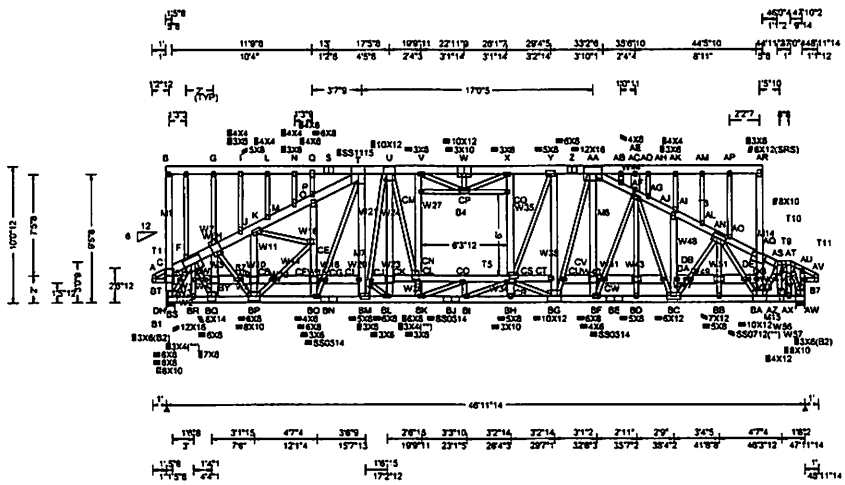
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Glenview, IL 60025

SEQN: 120697 GABL FROM: Page 1 of 2	Ply: 3 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** G02		Cust: R 9419 JRef: 1XUU94190004 T25 DrwNo: 320.23.1709.47663 / FK 11/16/2023

3 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): -0.259 X 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.560 X 991 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.105 AX - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.221 AX - -
NCBCLL: 0.00	Mean Height: 26.74 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.364
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.462
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.615
	C&C Dist a: 4.90 ft	FT/RT:20(0)/10(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: 1.60		

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U / RL
DH	19624 / -	/ -	/ -	/10549 /50
AX	17197 / -	/ -	/ -	/9389 / -

Wind reactions based on MWFRS
DH Brg Wid = 7.6 Min Req = 5.4 (Truss)
AX Brg Wid = 7.6 Min Req = 4.7 (Truss)
Bearings DH & AX 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.
F - H	3059	-5603	Z - AA	3943	-7840
H - J	4226	-7909	AA-AB	4358	-8484
J - K	3976	-7522	AB-AD	4286	-8323
K - M	4427	-8522	AD-AF	4432	-8538
M - O	4238	-8235	AF-AG	4492	-8432
O - P	4342	-8476	AG-AI	4598	-8588
P - T	4231	-8231	AI-AJ	4810	-8907
T - U	3607	-7162	AJ-AL	4538	-8500
U - V	4009	-8181	AL-AN	4668	-8685
V - W	4191	-8798	AN-AO	3097	-5660
W - X	4191	-8798	AO-AQ	3212	-5830
X - Y	4052	-8261	AQ-AS	3084	-5709
Y - Z	3943	-7840	AS-AT	1554	-2858

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
BS-BR	2991	-1607	BI-BH	7732	-3610
BR-BQ	2933	-1577	BH-BG	7732	-3610
BQ-BP	5094	-2718	BG-BF	7306	-3661
BP-BO	6995	-3534	BF-BE	7661	-3953
BO-BN	6972	-3415	BE-BD	7661	-3953
BN-BM	6972	-3415	BD-BC	7666	-3956
BM-BL	7494	-3580	BC-BB	6857	-3658
BL-BK	6995	-3202	BB-BA	6845	-3652
BK-BJ	7546	-3396	BA-AZ	3499	-1879
BJ-BI	7546	-3396	AZ-AX	1458	-779

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
BS-BU	3660	-6943	CN-CO	1262	-725
BU- F	3648	-6922	V -CP	747	-246
F -BW	4356	-2292	BK-CO	194	-551
BW-BQ	4319	-2273	CO-CR	749	-535
BQ-BV	2043	-3584	W-CP	168	-554

Lumber

Top chord: 2x8 SP 2400f-2.0E; T1, T11 2x4 SPF #1/#2; T5,T8,T9 2x6 SP 2400f-2.0E; T10 2x4 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E; B1,B4, B7 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5,W6,W9,W10,W12,W15,W18, W20,W23,W40,W41,W43,W44,W47,W49,W51,W54, W55 2x8 SP #1; W2,W3,W4,W8,W14,W21,W56,W57,W58, M15 2x4 SP 2400f-2.0E; W7,W11,W26,W27,W34,W35,M1, M7,M14 2x6 SP 2400f-2.0E; W16,W24,W38,W48, M8 2x6 SPF #1/#2; M16 2x4 SPF 1650f-1.5E;

Purlins

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

Wind

Wind loads and reactions based on MWFRS.
Left and right cantilevers are exposed to wind
Wind loading based on both gable and hip roof types.

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 1.50" 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.

Plating Notes

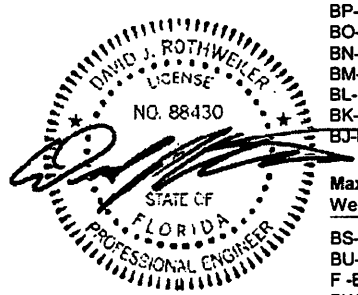
All plates are 3X4 except as noted.

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

Loading

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

Attic room loading from 19-9-11 to 26-1-7: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF



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

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SEQN: 120697 GABL	Ply: 3	Job Number: KTQ23455-BLDG-DUPLEX-R-Rev-1	Cust: R 9419 JRef: 1XUU94190004 T25
FROM:	Qty: 2	Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver	DrwNo: 320.23.1709.47663
Page 2 of 2		Truss Label: G02	/ FK 11/16/2023

Additional Notes

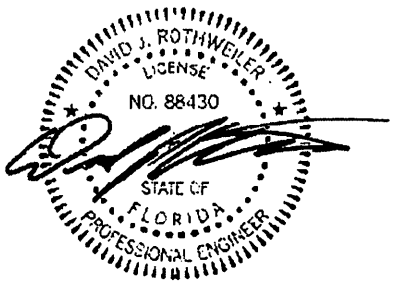
See DWGS A18030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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BY- H	2038	-3840	CP- X	464	-95
H -BZ	2785	-1375	X -CQ	390	-1210
BZ-BP	2787	-1377	CQ-CS	395	-1228
CB-BP	1133	-1997	CR-CS	470	-122
CB- K	1133	-1997	CS- Y	1141	-287
P -CE	513	-663	Y -CT	554	-1642
Q - P	823	-1318	BG-CU	1823	-547
CE-CF	561	-444	CT-BG	590	-1708
CF-BO	558	-436	CU-AA	1820	-546
BO-CG	398	-510	BF-CW	768	-935
CG- T	399	-510	CW-AF	770	-939
BM-CJ	606	-2006	AD-AE	372	-548
CJ-BL	455	-566	BC-DB	1279	-569
CJ- U	1005	-2510	DA-BC	651	-977
CJ-CK	576	-446	DA-AJ	651	-978
U -CL	2332	-913	DB-AN	1257	-556
CK-CL	652	-478	AN-DE	1731	-3310
CL-CM	687	-1722	DE-BA	1729	-3307
CL-CN	1322	-746	BA-AS	3705	-1981
CM- V	675	-1689	AZ-AT	5463	-2944
CN-BK	411	-142	AT-AX	3119	-5749

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
G - H	358	-509	AB-AC	398	-177
I - J	594	-919	AG-AH	261	-388
L - M	457	-692	AI-AK	509	-761
N - O	622	-285	AL-AM	306	-437
T -CI	2269	-756	AO-AP	271	-399
CI-BM	2273	-758	AQ-DG	258	-378
AA-CV	963	-724	DG-BA	259	-381
CV-BF	963	-724	AS-AZ	3093	-5750



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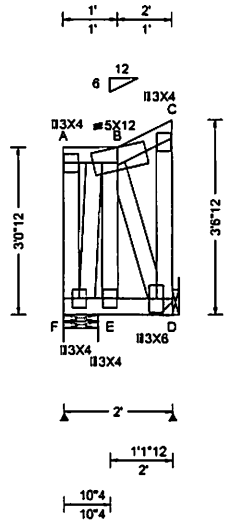
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SEQN: 152448 / HIPM FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** G03	Cust: R 9419 JRef:1XUU94190004 T18 / DrwNo: 320.23.1548.00227 / 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): 0.000 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.001 C - -
NCBCLL: 10.00	Mean Height: 24.02 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.027
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.013
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.038
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	94	/-	/-	/62	/18	/33
D	94	/-	/-	/78	/97	/-

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#

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

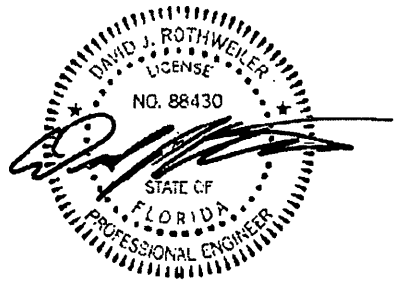
Wind

Wind loads based on MWFRS.

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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

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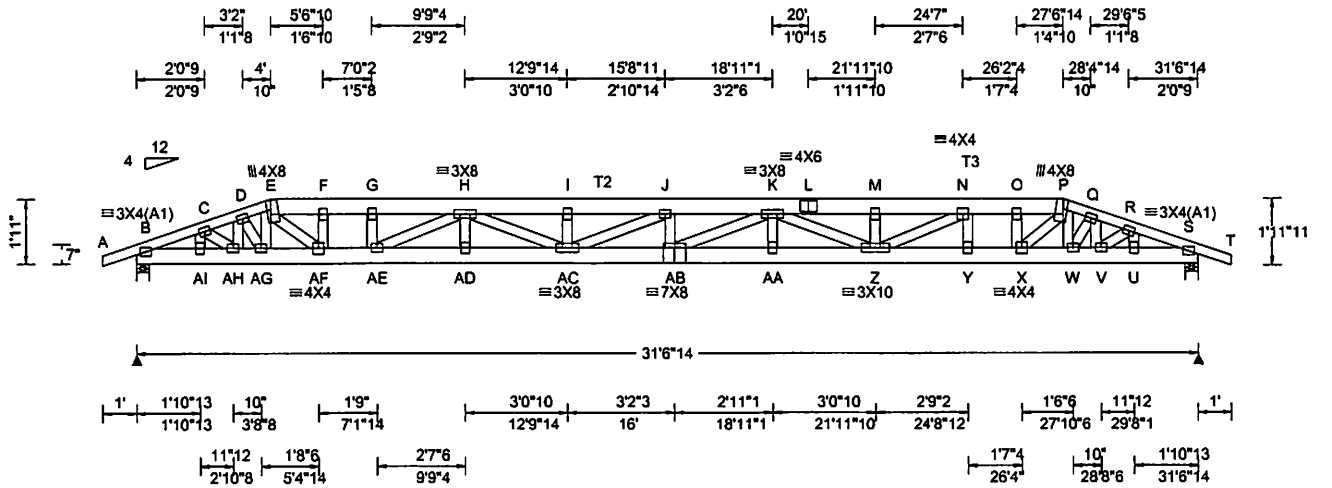
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SEQN: 119476 HIPS FROM:	Ply: 3 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** G04	Cust: R 9419 JRef:1XUU94190004 T1 DrwNo: 320.23.1709.50680 / FK 11/16/2023

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: 31.85 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.16 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.313	J	999	640
VERT(CL): 0.513	J	731	240
HORZ(LL): -0.037	S	-	-
HORZ(TL): 0.062	S	-	-

Creep Factor: 2.0
Max TC CSI: 0.146
Max BC CSI: 0.285
Max Web CSI: 0.115

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2570	/-	/-	/-	/1705	/-
S	2583	/-	/-	/-	/1714	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
S Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings B & S are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	964	-1478	K - L	2500	-3762
C - D	1189	-1823	L - M	2500	-3762
D - E	1291	-1981	M - N	2500	-3762
E - F	1827	-2771	N - O	1832	-2777
F - G	1861	-2819	O - P	1800	-2733
G - H	1878	-2847	P - Q	1303	-1998
H - I	2838	-4262	Q - R	1198	-1835
I - J	2838	-4262	R - S	970	-1487
J - K	2968	-4458			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AI	1367	-890	AB-AA	4252	-2835
AI-AH	1406	-916	AA- Z	4252	-2835
AH-AG	1792	-1169	Z - Y	2806	-1854
AG-AF	1950	-1277	Y - X	2777	-1832
AF-AE	2819	-1861	X - W	1973	-1293
AE-AD	3791	-2522	W - V	1806	-1178
AD-AC	3791	-2522	V - U	1416	-923
AC-AB	4465	-2983	U - S	1377	-896

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C -AH	469	-306	K - Z	372	-553
E -AF	1193	-798	Z - N	1107	-739
AF- F	371	-514	O - X	354	-490
AE- H	737	-1093	X - P	1186	-791
H -AC	533	-351	V - R	472	-308

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;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
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	72 plf at	-1.00 to	72 plf at	4.00
TC: From	36 plf at	4.00 to	36 plf at	27.57
TC: From	72 plf at	27.57 to	72 plf at	32.57
BC: From	4 plf at	-1.00 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	4.01
BC: From	10 plf at	4.01 to	10 plf at	27.56
BC: From	20 plf at	27.56 to	20 plf at	31.57
BC: From	4 plf at	31.57 to	4 plf at	32.57

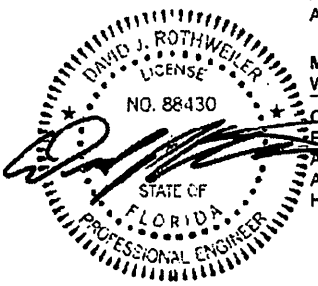
TC: 202 lb Conc. Load at 4.01,27.56
TC: 129 lb Conc. Load at 5.64, 7.64, 9.64,11.64 13.64,15.64,16.10,18.10,20.10,22.10,24.10,26.10
BC: 155 lb Conc. Load at 4.01,27.56
BC: 77 lb Conc. Load at 5.64, 7.64, 9.64,11.64 13.64,15.64,16.10,18.10,20.10,22.10,24.10,26.10

Plating Notes

All plates are 3X4 except as noted.

Wind

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



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

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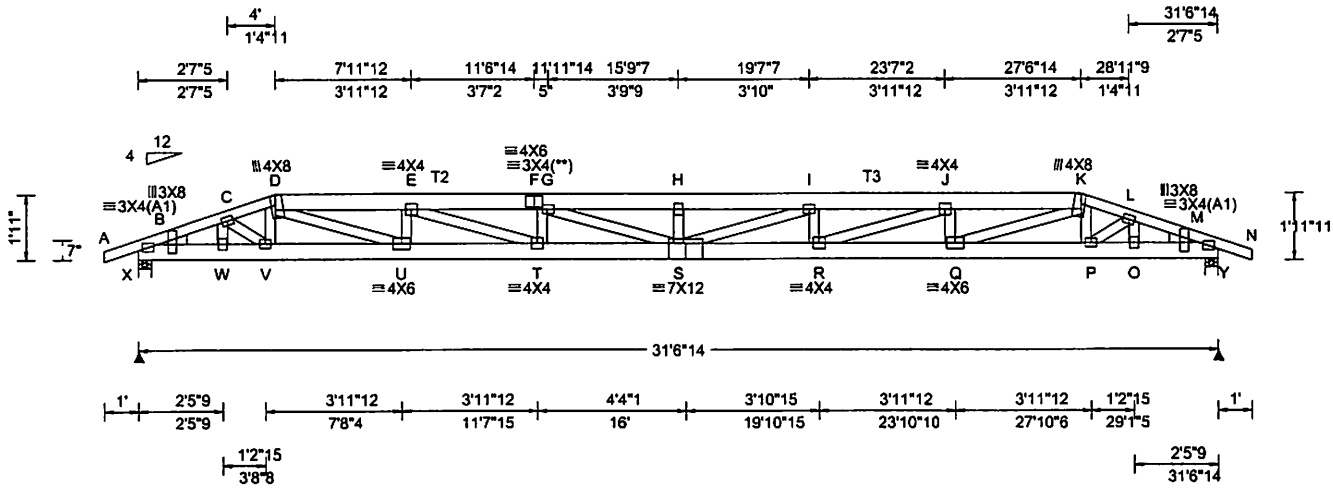
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119482 HIPS FROM:	Ply: 3 Qty: 1	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** G05	Cust: R 9419 JRef: 1XUU94190004 T13 DrwNo: 320.23.1709.54093 / FK 11/16/2023

3 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): -0.305 H 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.509 H 737 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.034 D - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.057 D - -
NCBCLL: 0.00	Mean Height: 31.85 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.244
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.245
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.294
	C&C Dist a: 3.16 ft	FT/RT:20(0)/10(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: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	2473	/-	/-	/-	/1640	/-
Y	2473	/-	/-	/-	/1640	/-

Wind reactions based on MWFRS
X Brg Wid = 4.5 Min Req = 1.5 (Truss)
Y Brg Wid = 4.5 Min Req = 1.5 (Truss)
Bearings X & Y 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	1032	-1586	H - I	2824	-4241
C - D	1263	-1949	I - J	2610	-3932
D - E	2041	-3092	J - K	2041	-3092
E - F	2611	-3933	K - L	1263	-1949
F - G	2611	-3933	L - M	1032	-1586
G - H	2824	-4241			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	1488	-967	S - R	3979	-2652
W - V	1521	-988	R - Q	3180	-2111
V - U	1885	-1232	Q - P	1886	-1232
U - T	3179	-2111	P - O	1521	-989
T - S	3960	-2653	O - M	1488	-967

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - V	474	-302	R - J	809	-537
D - U	1302	-873	J - Q	360	-449
U - E	360	-448	Q - K	1302	-873
E - T	811	-538	P - L	474	-302

Lumber

Top chord: 2x4 SPF #1/#2; T2,
T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SPF #1/#2;
Lt Wedge: 2x4 SPF #1/#2;Rt Wedge: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @11.00" 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	72 plf at	-1.00 to	72 plf at	4.00
TC: From	36 plf at	4.00 to	36 plf at	27.57
TC: From	72 plf at	27.57 to	72 plf at	32.57
BC: From	4 plf at	-1.00 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	4.01
BC: From	10 plf at	4.01 to	10 plf at	27.56
BC: From	20 plf at	27.56 to	20 plf at	31.57
BC: From	4 plf at	31.57 to	4 plf at	32.57

TC: 202 lb Conc. Load at 4.01,27.56
TC: 129 lb Conc. Load at 6.06, 8.06,10.06,12.06 14.06,15.79,17.51,19.51,21.51,23.51,25.51
BC: 155 lb Conc. Load at 4.01,27.56
BC: 77 lb Conc. Load at 6.06, 8.06,10.06,12.06 14.06,15.79,17.51,19.51,21.51,23.51,25.51

Plating Notes

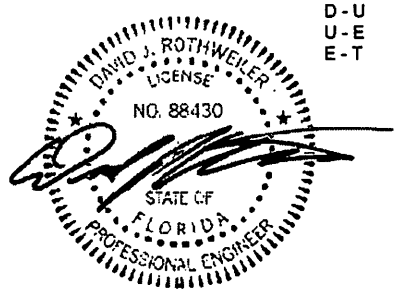
All plates are 3X4 except as noted.

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

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



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

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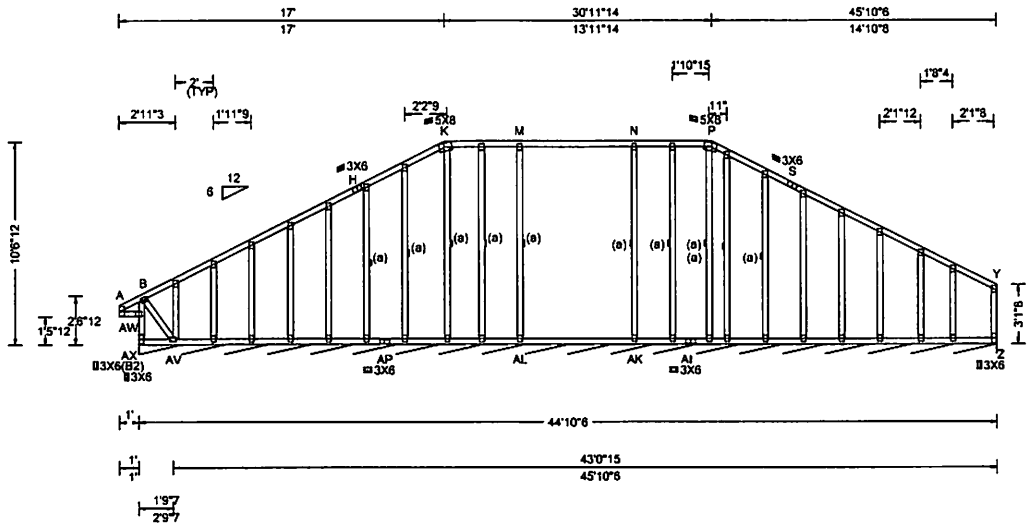
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 120684 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** GE01	Cust: R 9419 JRef: 1XUU94190004 T9 DrwNo: 320.23.1710.11103 / FK 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): -0.004 A 999 640
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 A 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.028 Y - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.038 Y - -
NCBCLL:	10.00	Mean Height: 27.02 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.376
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.308
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.187
		C&C Dist a: 4.59 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Z*	101	/-	/-	/56	/43	/11

Wind reactions based on MWFRS
Z Brg Wid = 538 Min Req = -
Bearing AX 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 - H	720	-434	N - P	864	-227
H - K	923	-308	P - S	938	-254
K - M	864	-227	S - Y	694	-221
M - N	864	-227			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
AV-AP	444	-417

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AW-AX	575	-804	B -AV	695	-597
AW- B	604	-795			

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
M -AL	464	-380	N -AK	464	-379

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.

Loading

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

Wind

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

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

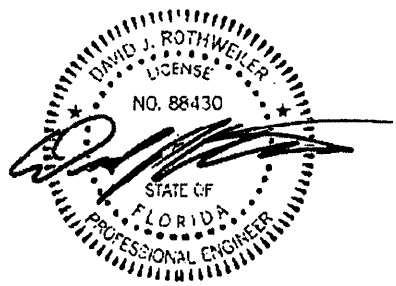
Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



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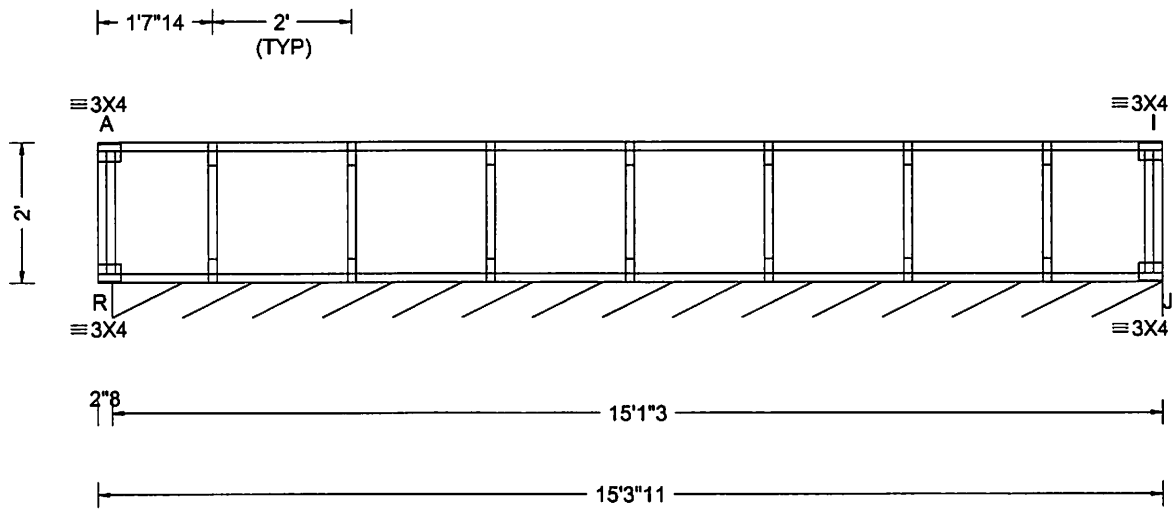
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 152531 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** GE02	Cust: R 9419 JRef: 1XUU94190004 T19 DrwNo: 320.23.1548.00289 / PPH 11/16/2023



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 30.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 18.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 I 999 640
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.000 I 999 480
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.001 I - -
Des Ld: 58.00	EXP: NA Kzt: NA		HORZ(TL): 0.001 I - -
NCBCLL: 10.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: NA psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.121
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.041
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.021
	C&C Dist a: NA ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: NA		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
J*	78 /-	/-	/-	/-	/-	
J	Brg Wid = 181	Min Req = -				

Bearing R is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

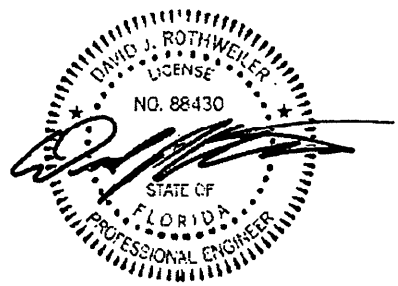
Plating Notes

All plates are 1.5X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

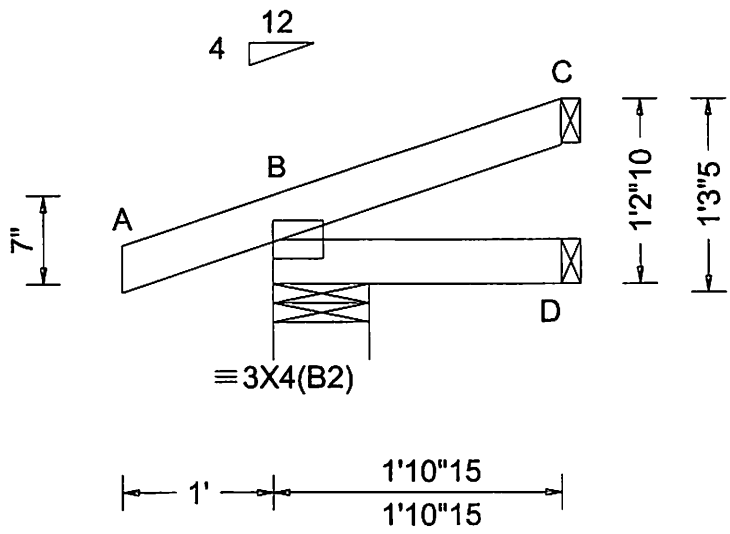


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 119334 / JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** J01	Cust: R 9419 JRef:1XUU94190004 T20 / DrwNo: 320.23.1548.00211 / 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): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.001 C - -
NCBCLL: 10.00	Mean Height: 31.51 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.160
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.027
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	186	/-	/-	/135	/121	/76
D	36	/-	/-	/18	/-	/-
C	49	/-	/-	/26	/65	/-

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

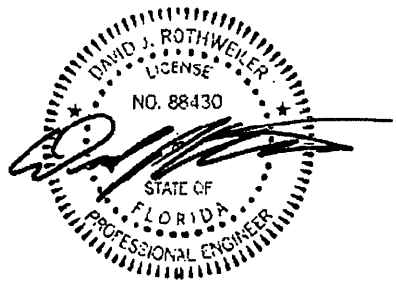
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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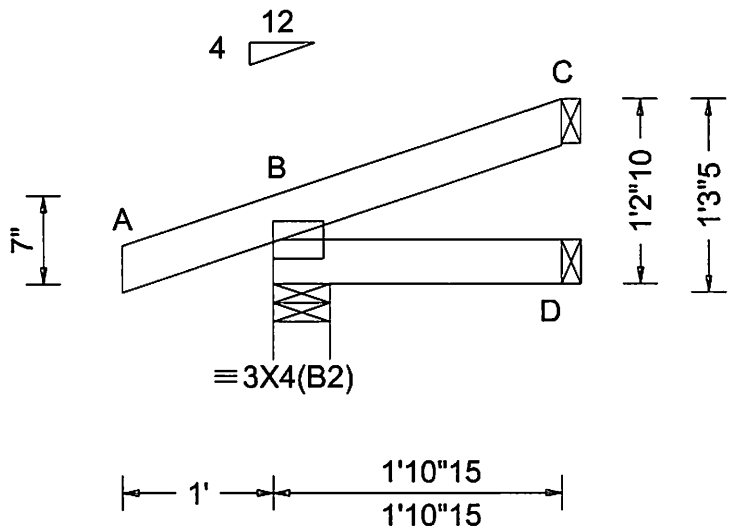
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119336 JACK FROM:	Ply: 1 Qty: 4	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** J02	Cust: R 9419 JRef: 1XUU94190004 T17 DrwNo: 320.23.1710.13690 / FK 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): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.001 C - -
NCBCLL: 10.00	Mean Height: 31.51 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.208
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.033
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	186	/-	/-	/135	/121	/76
D	36	/-	/-	/18	/-	/-
C	49	/-	/-	/26	/65	/-

Wind reactions based on MWFRS
B Brg Wid = 4.5 Min Req = 1.5 (Truss)
D Brg Wid = 1.5 Min Req = -
C Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

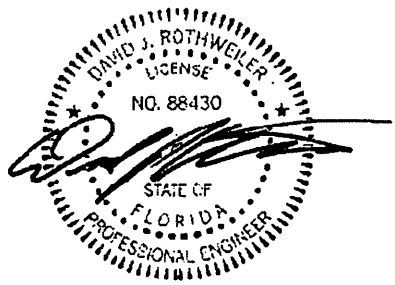
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

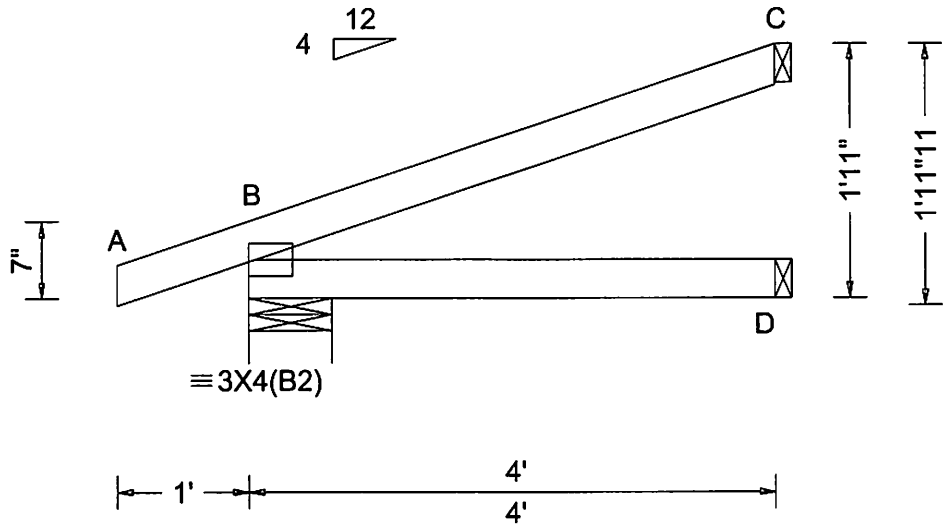


11/17/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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

SEQN: 119332 EJAC FROM:	Ply: 1 Qty: 27	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** J03	Cust: R 9419 JRef:1XUU94190004 T35 DrwNo: 320.23.1710.15253 / FK 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): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.005 C - -
NCBCLL: 10.00	Mean Height: 31.85 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.498
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.156
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	270	/-	/-	/181	/167	/133
D	77	/-	/-	/41	/-	/-
C	129	/-	/-	/63	/149	/-

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

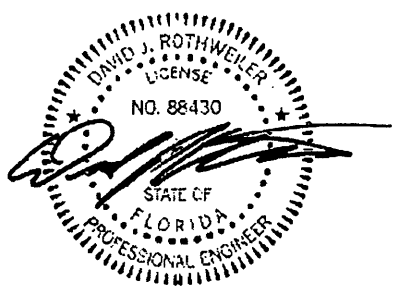
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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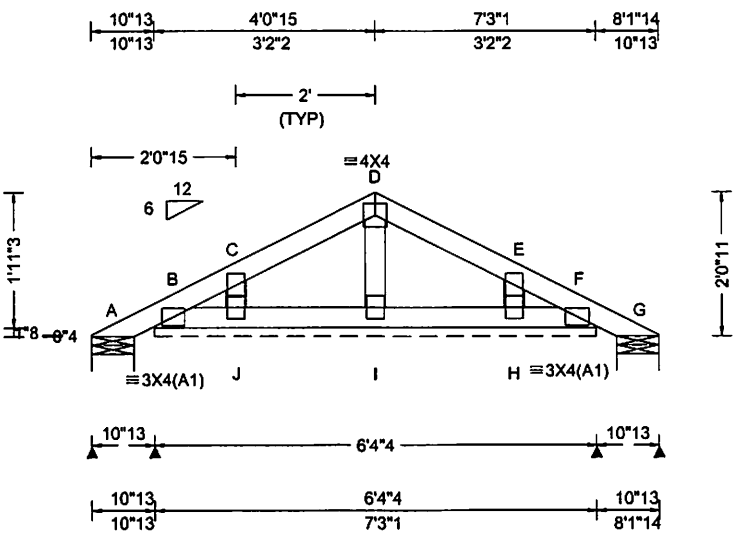
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ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119108 SPEC FROM:	Ply: 1 Qty: 8	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** PB01	Cust: R 9419 JRef:1XUU94190004 T48 DrwNo: 320.23.1710.17567 / FK 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): 0.000 D 999 640
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 E - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.001 E - -
NCBCLL: 10.00	Mean Height: 33.75 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.093
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.017
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.050
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	24	/-	/-	/34	/31	/70
B*	84	/-	/-	/58	/74	/-
G	24	/-	/-	/16	/28	/-
J		/-170				
H		/-170				

Wind reactions based on MWFRS
A Brg Wid = 7.3 Min Req = 1.5 (Truss)
B Brg Wid = 76.2 Min Req = -
G Brg Wid = 7.3 Min Req = 1.5 (Truss)
Bearings A, B, & G are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

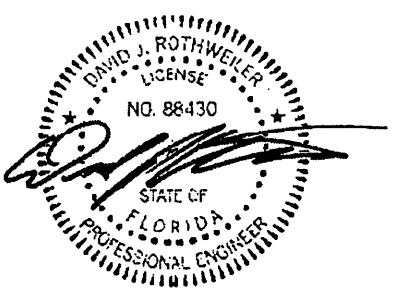
Plating Notes

All plates are 3X4 except as noted.

Wind

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

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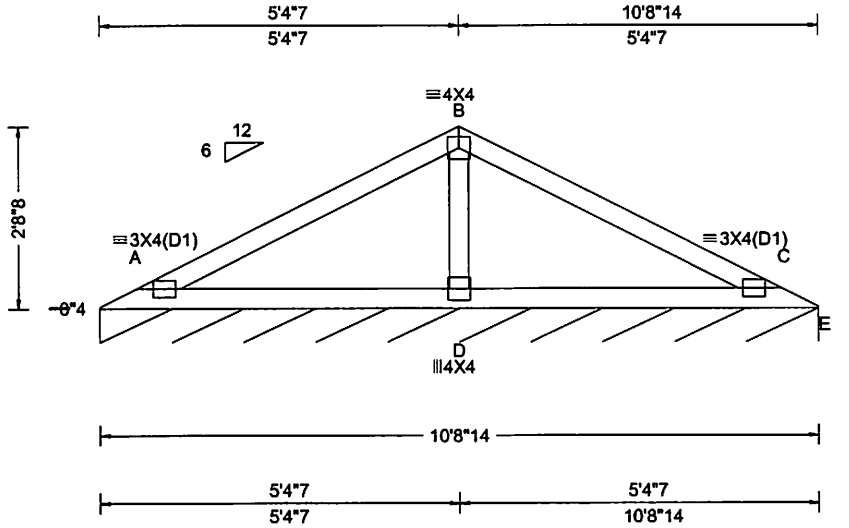
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 152342 / VAL FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** V01	Cust: R 9419 JRef:1XUU94190004 T10 / DrwNo: 320.23.1548.00258 / 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: 33.56 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: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.018 A	999	360
VERT(CL):	0.042 A	999	240
HORZ(LL):	-0.007 C	-	-
HORZ(TL):	0.017 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.435
Max BC CSI: 0.308
Max Web CSI: 0.139

VIEW Ver: 22.02.00.0914.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	93	/-	/-	/52	/24	/8

Wind reactions based on MWFRS
E Brg Wid = 128 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	474	-434	B - C	474	-457

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - D	531	-363	D - C	531	-363

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	785	-665

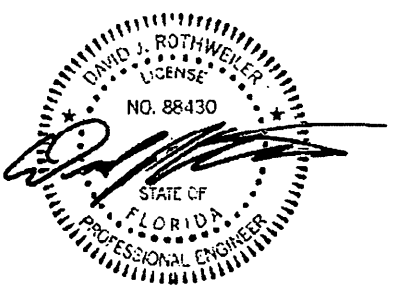
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

11/17/2023

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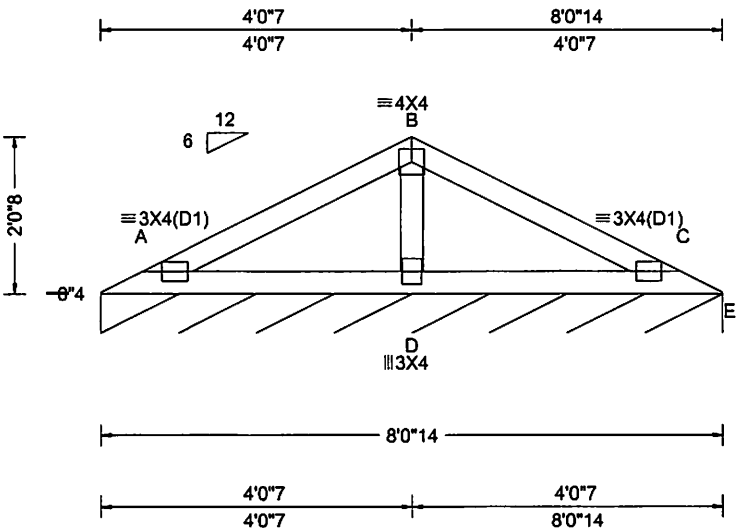
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 152349 / VAL FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** V02	Cust: R 9419 JRef: 1XUU94190004 T12 / DrwNo: 320.23.1547.59899 / 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): 0.007 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.017 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.007 C - -
NCBCLL: 10.00	Mean Height: 33.89 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: 0.181
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.099
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	93	/-	/-	/51	/22	/8

Wind reactions based on MWFRS
E Brg Wid = 96.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	563	-416

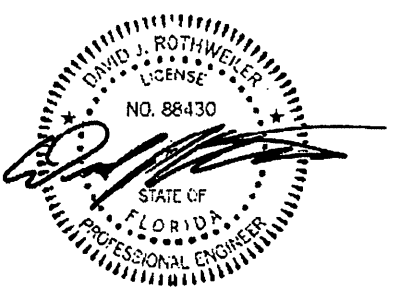
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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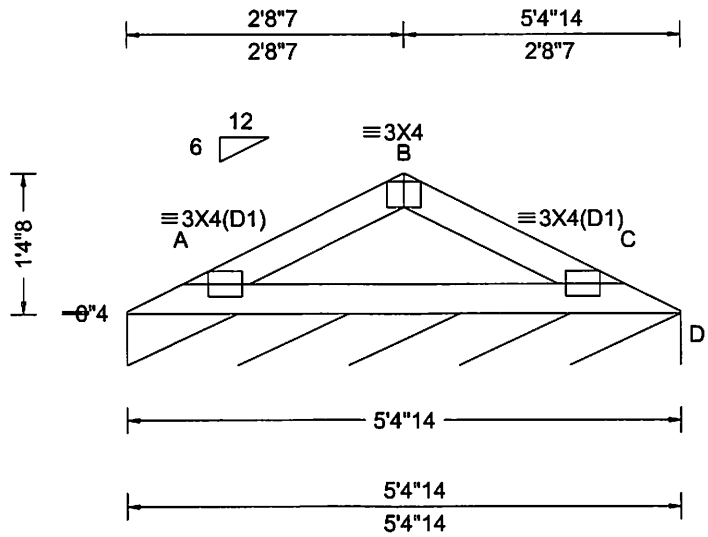
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 152331 / VAL FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** V03	Cust: R 9419 JRef: 1XUU94190004 T15 / DrwNo: 320.23.1547.59944 / 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): 0.009 A 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.021 A 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C - -
Des Ld:	45.00	EXP: D Kzt: NA		HORZ(TL): 0.007 C - -
NCBCLL:	10.00	Mean Height: 34.23 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.153
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.170
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.000
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	93	/-	/-	/48	/19	/7

Wind reactions based on MWFRS
D Brg Wid = 64.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	418	-302	B - C	413	-302

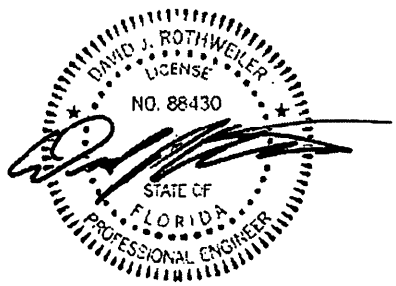
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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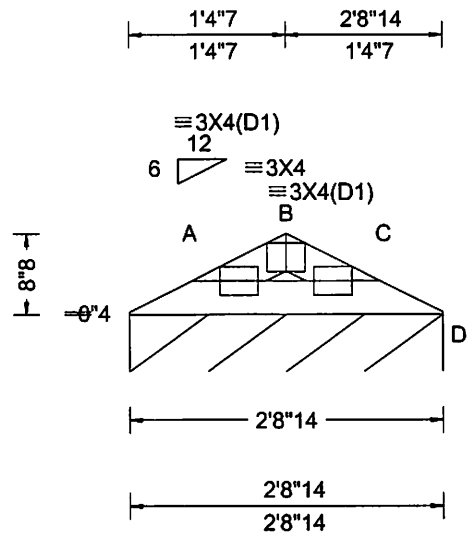
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Glenview, IL 60025

SEQN: 119342 / VAL FROM:	Ply: 1 Qty: 2	**Job Number:** KTQ23455-BLDG-DUPLEX-R-Rev-1 Job Number:KTQ23455-BLDG-DUPLEX-R-Re Job Description:Duplex-Roof Framing Deliver **Truss Label:** V04	Cust: R 9419 JRef: 1XUU94190004 T22 / DrwNo: 320.23.1547.59960 / 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): 0.001 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 A - -
Des Ld: 45.00	EXP: D Kzt: NA		HORZ(TL): 0.001 A - -
NCBCLL: 10.00	Mean Height: 34.56 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.029
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.054
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 22.02.00.0914.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	92	/-	/-	/41	/9	/5

Wind reactions based on MWFRS
D Brg Wid = 32.9 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

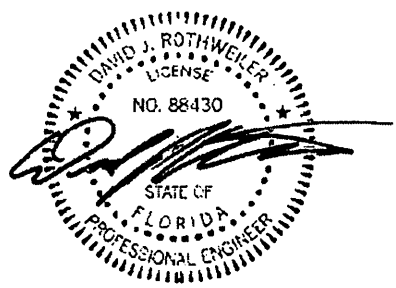
Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.



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

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Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

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

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 180 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' braces: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

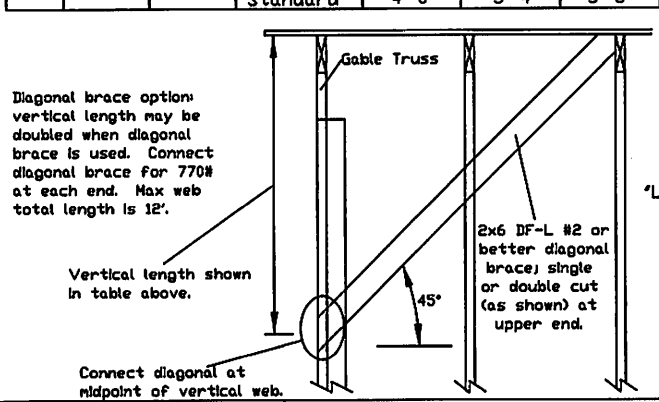
'L' bracing must be a minimum of 80% of web member length.

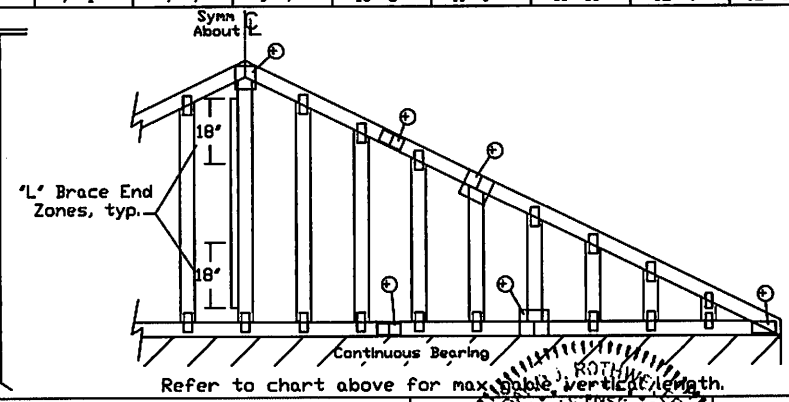
Gable Vertical Plate Sizes

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

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

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





Refer to chart above for max. gable vertical length.

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

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

11/17/2023
MAX. TOT. L.D. 60 PSF
MAX. SPACING 24.0"

FL REG# 278, David J. Rothwell, FL P.E. 88430

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.

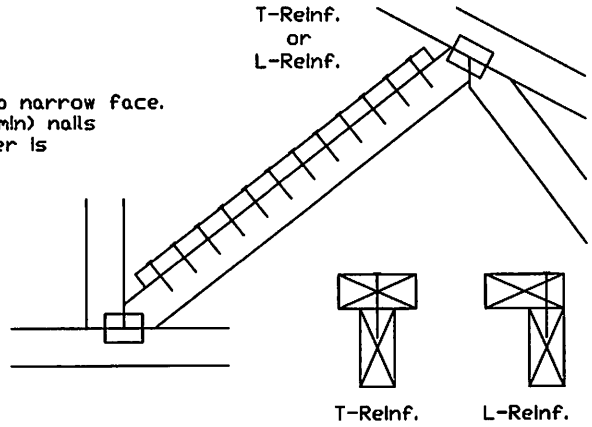
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 (*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 (*)

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

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

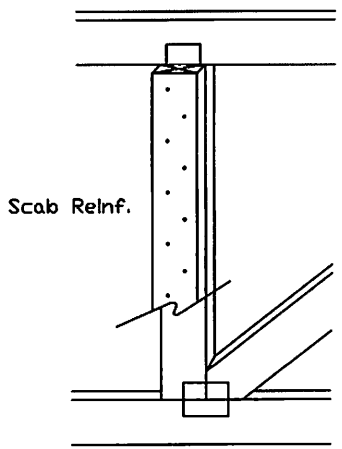
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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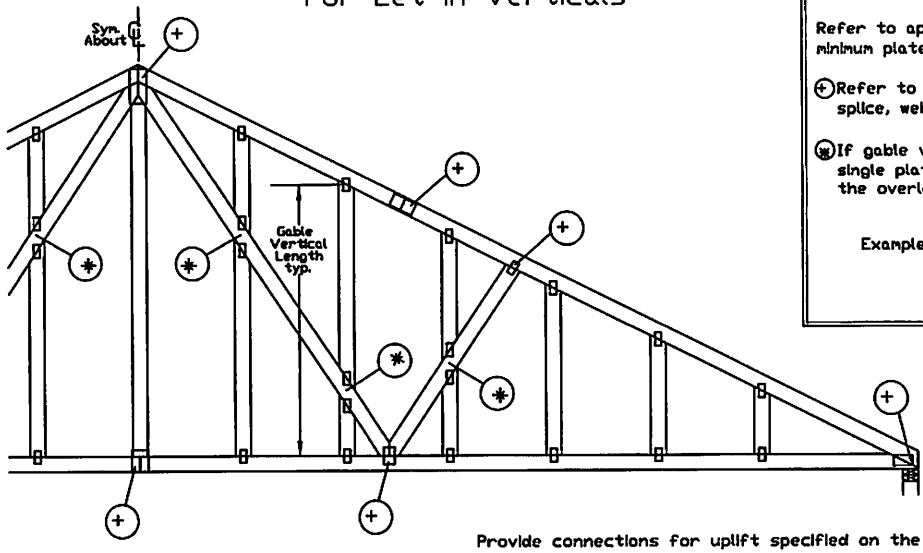
DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/17/2023

FL REQ# 27878 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		

Gable Detail
For Let-In Verticals



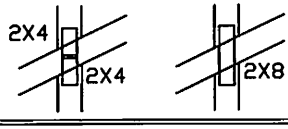
Gable Truss Plate Sizes

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

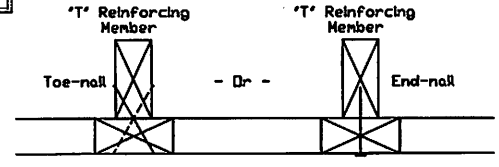
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

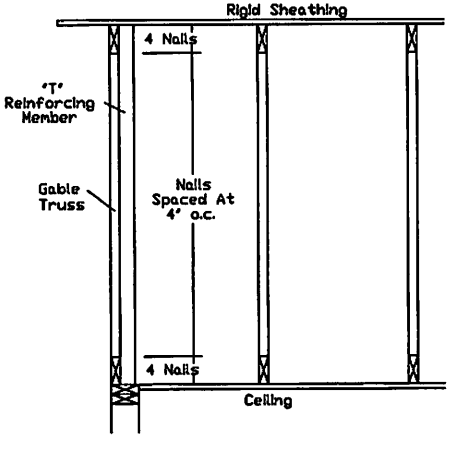
Ⓦ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail





Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

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

Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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

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

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

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

Web Length Increase w/ 'T' Brace

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

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24'o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

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

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

11/17/2023

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

FL REQ# 278, DAVID J. ROTHWEILER, PE #88430

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Piggyback Detail - ASCE 7-10: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

180 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Part. Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Part. Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

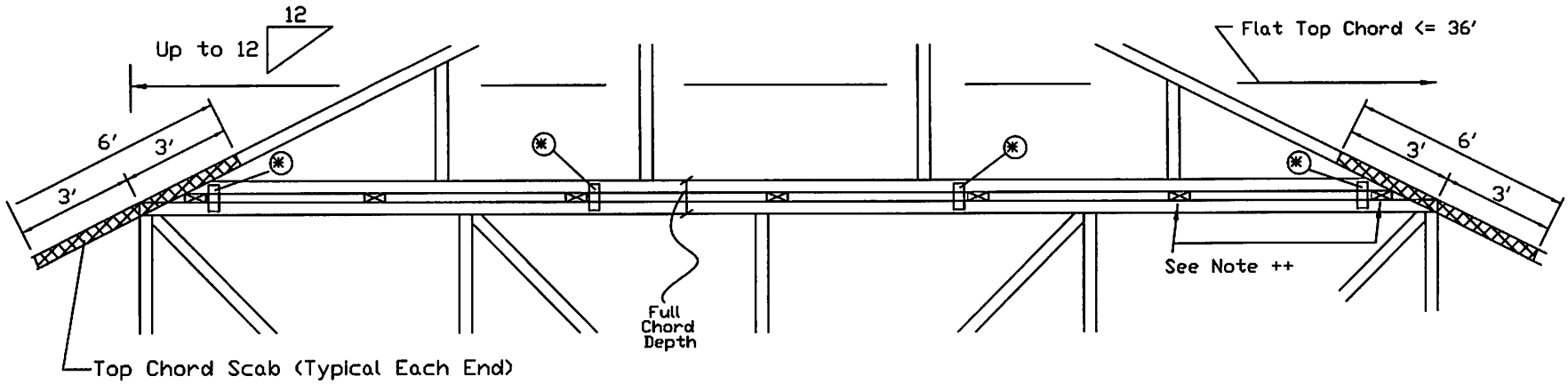
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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

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

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

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



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

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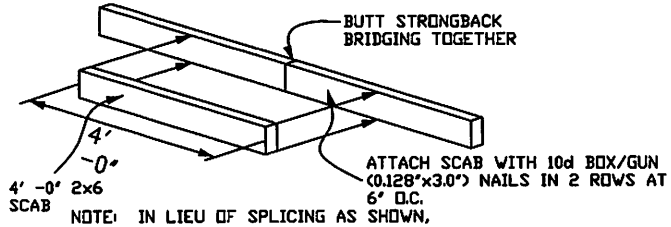
DAVID J. ROTHWEILER LICENSE NO. 88430 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/17/2023

FL REQ# 278, DAVID ROTHWEILER PE# 88430

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB180101014

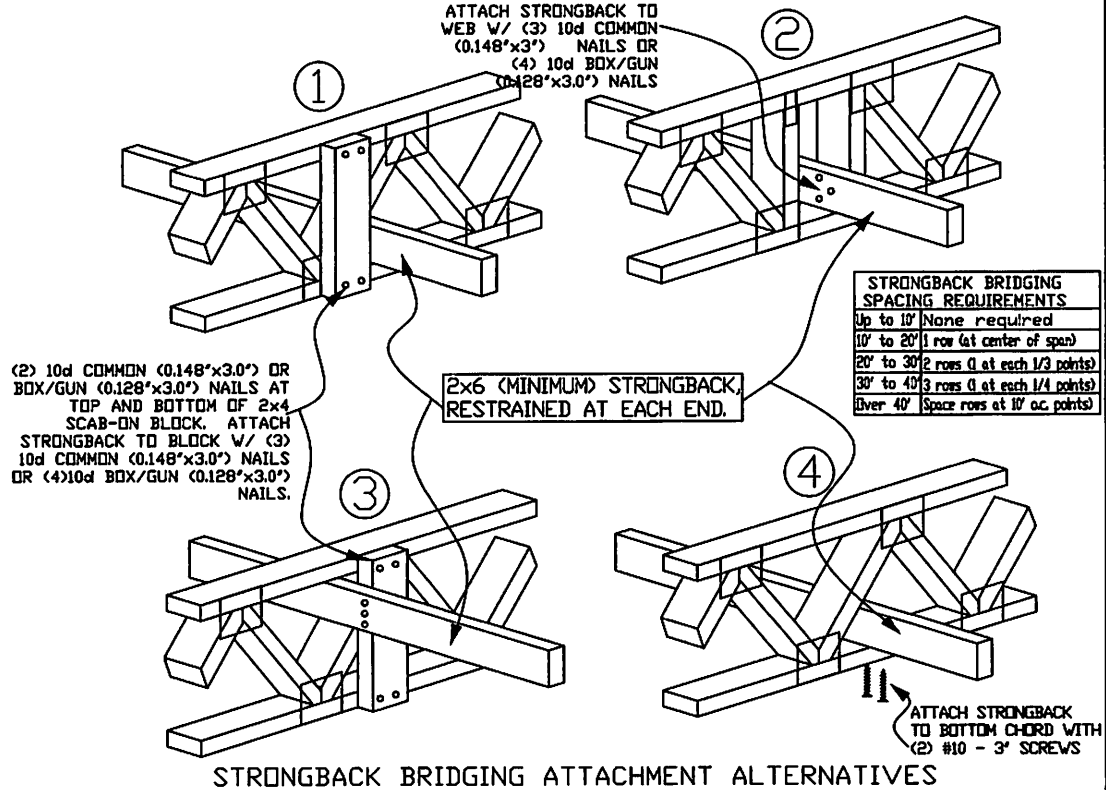
STRONGBACK BRIDGING RECOMMENDATIONS



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

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



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

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

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

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

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

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TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL 1/17/2023	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

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