Alpine, an ITW Company
155 Harlem Ave
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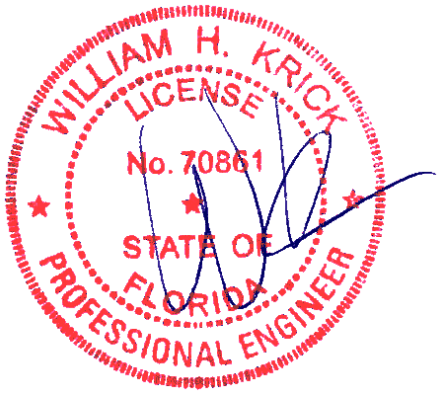

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COA #0 278

Florida Certificate of Product Approval #FL 1999

04/30/2025

Site Information:	**Page 1:**
Customer: Seminole Trusses, Inc.	*Job Number:* B60868a
Job Description: BORCHARDT RESIDENCE	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	*IntelliVIEW Version:* 24.02.00C *JRef #:* 1Y9K8570005
Wind Standard: ASCE 7-22 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 37.00

This package contains general notes pages, 58 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	119.25.1524.23985	A1 42' Stepdown Hip
3	119.25.1524.25954	A3 42' Stepdown Hip
5	119.25.1524.24438	A5 42' Stepdown Hip Girder
7	119.25.1524.25156	B2 30' Stepdown Hip
9	119.25.1524.25407	C1 35' Common
11	119.25.1524.24453	D1 30' Common
13	119.25.1524.24985	D1b 30' Common
15	119.25.1524.25281	D1d 30' Common
17	119.25.1524.24625	E1 29' Common
19	119.25.1735.59623	E2a 29' Common
21	119.25.1524.23750	G1 29' Common Girder
23	119.25.1524.24487	G2a 29' Common Girder
25	119.25.1524.25172	G2c 29' Common
27	119.25.1524.24987	H1 23'2" Scissor
29	119.25.1524.25547	H1b 23'6" Scissor
31	119.25.1524.24704	K1 15' Common Girder
33	119.25.1524.25657	K3-DG 15' Gable
35	119.25.1524.25595	M1 13'6" Common
37	119.25.1524.24376	N2 12' Common
39	119.25.1524.24219	O1 10'8"13 Mono Girder
41	119.25.1524.25923	O2s 9'2"4 Mono
43	119.25.1524.24110	Q1a 7'9" Mono
45	119.25.1524.24719	PB1 13'8" Common
47	119.25.1524.26033	PB3 6'8" Common
49	119.25.1524.25235	PB5-G 6'8"8 Gable

Item	Drawing Number	Truss
2	119.25.1524.23766	A2 42' Stepdown Hip
4	119.25.1524.25971	A4 42' Stepdown Hip
6	119.25.1524.25078	B1 30' Stepdown Hip
8	119.25.1524.25236	B2a 30' Stepdown Hip
10	119.25.1524.24876	C1s 30' Common
12	119.25.1524.23969	D1a 30' Common
14	119.25.1524.25406	D1c 30' Common
16	119.25.1524.24642	D1e 30' Special
18	119.25.1735.55547	E2 29' Common
20	119.25.1524.24875	E3-DG 29' Gable
22	119.25.1524.25846	G2 29' Common
24	119.25.1524.24172	G2b 29' Common Girder
26	119.25.1524.24986	G3-SG 29' Gable
28	119.25.1524.25501	H1a 23'6" Scissor
30	119.25.1524.25581	H2-SDG 23'6" Gable
32	119.25.1524.23948	K2 15' Common
34	119.25.1524.23923	L1-DG 14'6" Gable
36	119.25.1524.24720	N1 12' Common Girder
38	119.25.1524.25580	N3-DG 12' Gable
40	119.25.1524.24188	O2 9'5"12 Mono
42	119.25.1524.25485	Q1 7'9" Mono
44	119.25.1524.25328	R1 2' Mono
46	119.25.1524.24126	PB2 13'8" Common
48	119.25.1524.24235	PB4 7'6"6 Common
50	119.25.1524.25781	V1 29'11"2 Valley

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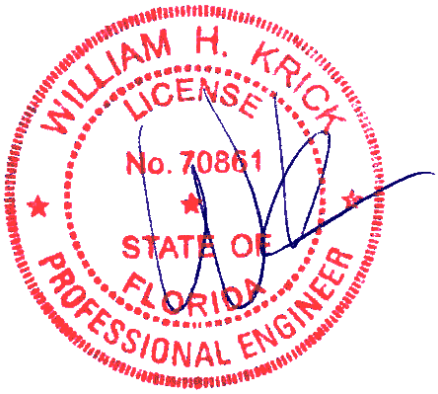

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Site Information:	Page 2:
Customer: Seminole Trusses, Inc.	*Job Number:* B60868a
Job Description: BORCHARDT RESIDENCE	
Address: FL	

Item	Drawing Number	Truss
51	119.25.1524.25703	V2 23'11"2 Valley
53	119.25.1524.24469	V4 11'11"2 Valley
55	119.25.1524.25798	JA 8'7"14 Hip Jack Girder
57	119.25.1524.24798	JC 4'1"11 Jack
59	GBLDIAG220923	
61	REPCHRD1014	
63	VALTN220723	

Item	Drawing Number	Truss
52	119.25.1524.24360	V3 17'11"2 Valley
54	119.25.1524.25891	V5 5'11"2 Valley
56	119.25.1524.25734	JB 6'2" End Jack
58	119.25.1524.25860	JD 2'1"11 Jack
60	PB160220723	
62	VAL180220723	

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.

Bearing Information:
The bearing area factor, Cb, is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:
Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

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.

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.
C = Coated lumber.
C-AT = AtTEK coated lumber.
C-FX = FX Lumber Guard coated lumber.
C -TE = TechWood 4400 coated lumber.
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-BF = Boraflame 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-ON = OnWood 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).

General Notes (continued)

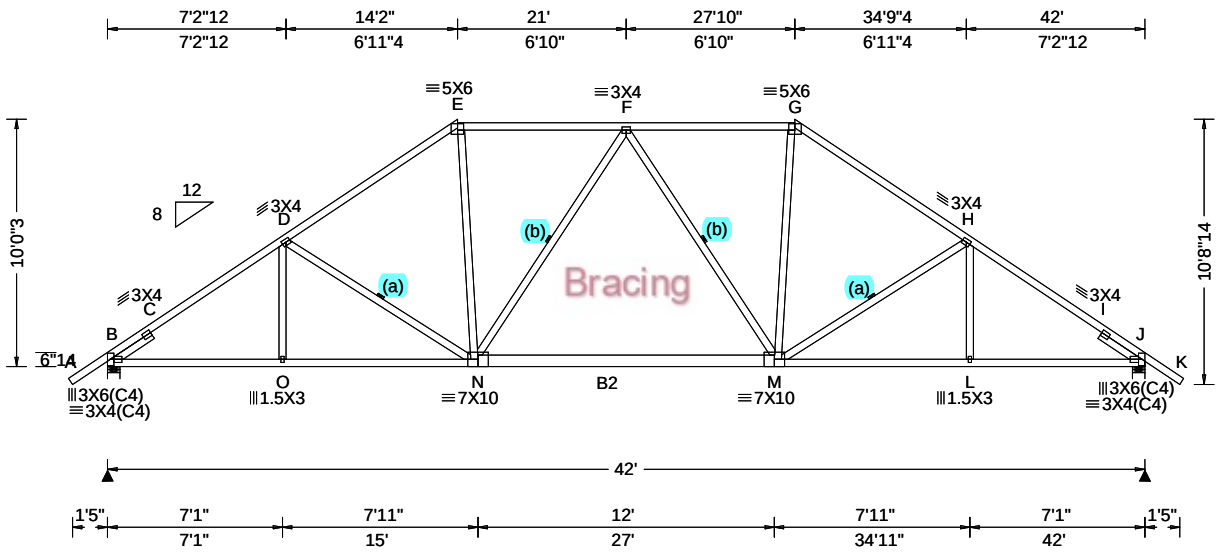
Key to Terms (continued):
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square 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: 29683 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** A1 42' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T44 / DrwNo: 119.25.1524.23985 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.20 ft
Loc. from endwall: not in 13.00 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.128	F	999	360
VERT(CL): 0.227	F	999	240
HORZ(LL): 0.058	J	-	-
HORZ(TL): 0.103	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.487
Max BC CSI: 0.850
Max Web CSI: 0.342

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1847	/-	/-	/864	/-	/190
J	1847	/-	/-	/864	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 2.2 (Truss)
J Brg Wid = 6.0 Min Req = 2.2 (Truss)
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	443	- 2612	F - G	346	- 1827
C - D	310	- 2549	G - H	361	- 2211
D - E	361	- 2211	H - I	310	- 2549
E - F	346	- 1827	I - J	444	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2043	- 154	M - L	2041	- 150
O - N	2041	- 155	L - J	2043	- 150
N - M	1958	- 148			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - N	777	- 61	M - G	777	- 60

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

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

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.

COA #0278
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****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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

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

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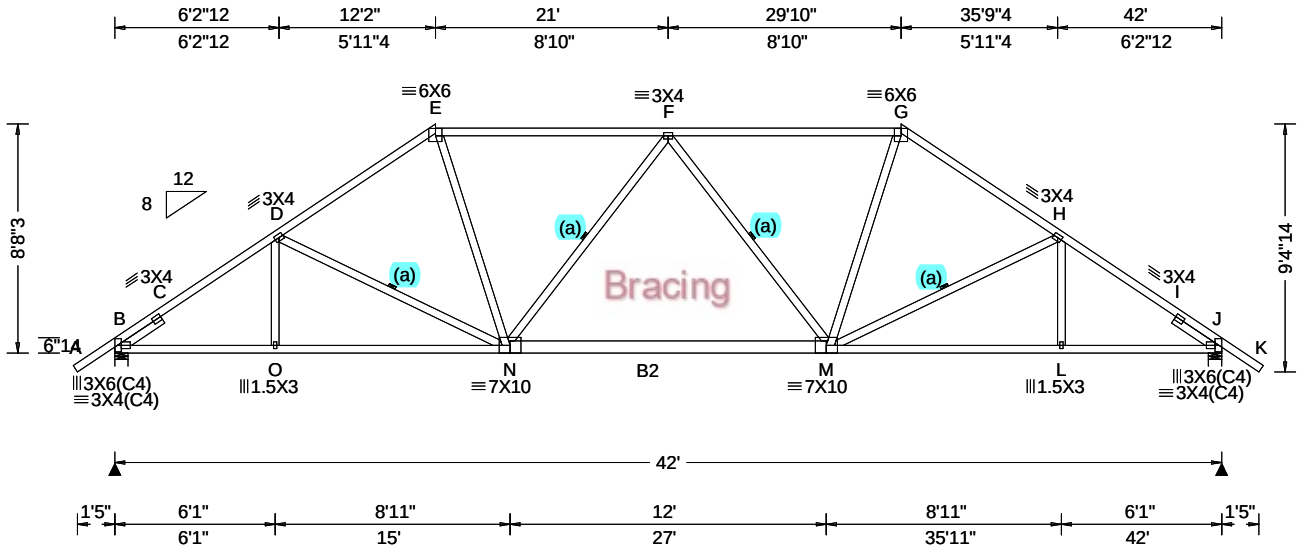
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29685 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** A2 42' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T43 / DrwNo: 119.25.1524.23766 SSB / WHK 04/29/2025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.137 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.244 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.060 I - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.107 I - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.724
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.842
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.438
	C&C Dist a: 4.20 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1830	/-	/-	/854	/99	/164
J	1830	/-	/-	/854	/99	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 2.2 (Truss)
J Brg Wid = 6.0 Min Req = 2.2 (Truss)
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	393	- 2592	F - G	374	- 2066
C - D	324	- 2528	G - H	389	- 2234
D - E	389	- 2234	H - I	325	- 2528
E - F	374	- 2066	I - J	393	- 2592

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	2026	- 174	M - L	2024	- 165
O - N	2024	- 175	L - J	2026	- 164
N - M	2272	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - N	808	- 62	M - G	808	- 62

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

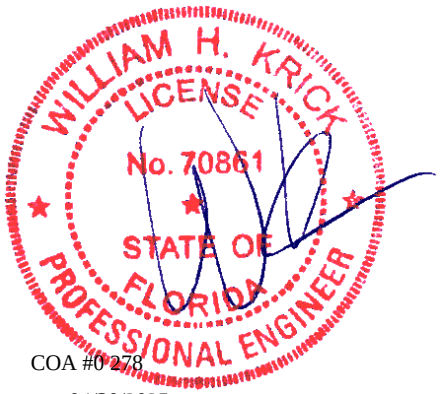
Loading

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.



COA #0278
Florida Certificate of Product Approval #FL 1999
04/30/2025

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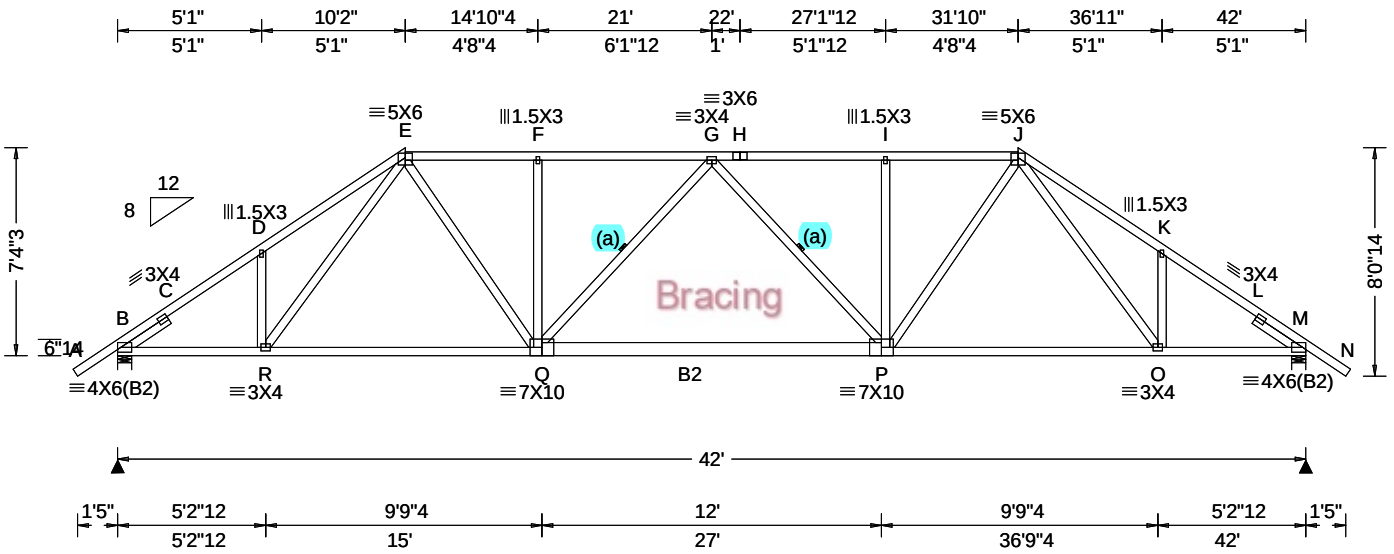
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29688 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** A3 42' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T42 / DrwNo: 119.25.1524.25954 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.20 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.181	G	999	360
VERT(CL): 0.305	G	999	240
HORZ(LL): 0.068	L	-	-
HORZ(TL): 0.115	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.468
Max BC CSI: 0.720
Max Web CSI: 0.442

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
B	1973	/-	/-	/842	/102	/137
M	1973	/-	/-	/842	/102	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 2.0 (Truss)
M Brg Wid = 6.0 Min Req = 2.0 (Truss)
Bearings B & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	358	- 2878	H - I	457	- 2724
C - D	341	- 2813	I - J	462	- 2733
D - E	423	- 2755	J - K	423	- 2755
E - F	462	- 2733	K - L	342	- 2813
F - G	457	- 2724	L - M	358	- 2878
G - H	457	- 2724			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2255	- 199	P - O	2068	- 172
R - Q	2068	- 186	O - M	2255	- 186
Q - P	2888	- 309			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - Q	1159	- 146	P - J	1159	- 146

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP SS Dense; B2 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

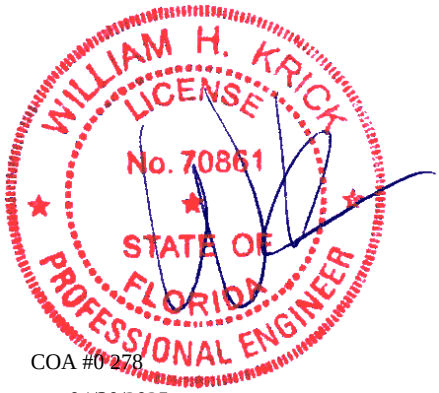
Loading

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.



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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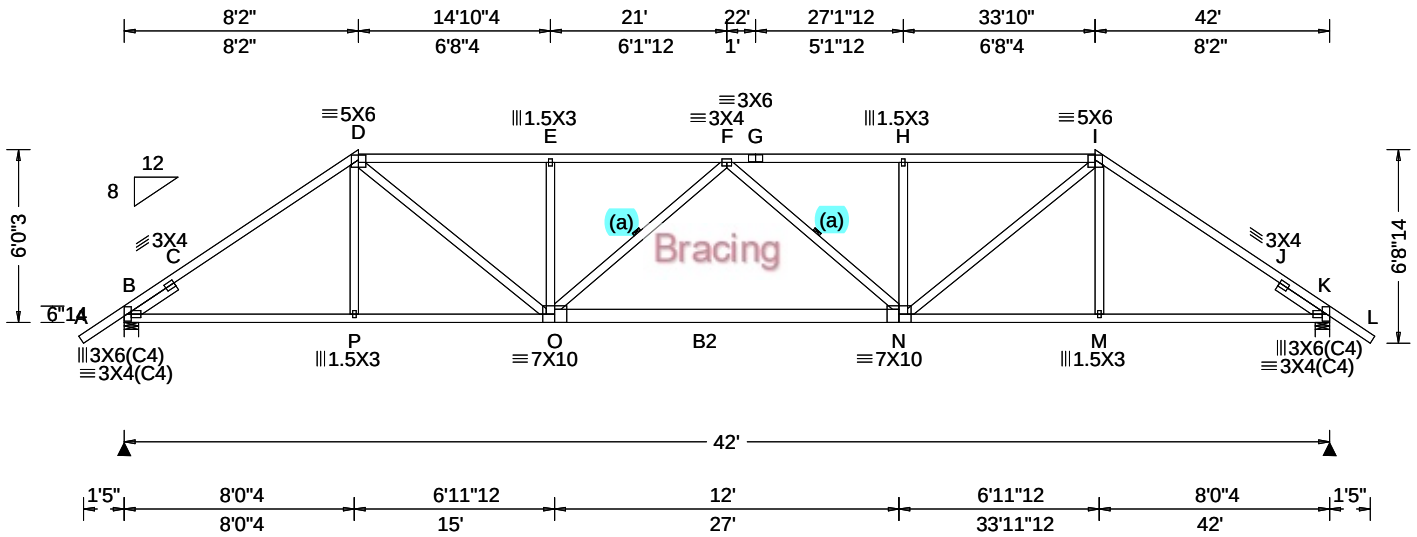
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29690 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** A4 42' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T41 / DrwNo: 119.25.1524.25971 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.20 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.211	F	999	360
VERT(CL): 0.369	F	999	240
HORZ(LL): 0.067	K	-	-
HORZ(TL): 0.118	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.581
Max BC CSI: 0.862
Max Web CSI: 0.507

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	1873	/-	/-	/827	/106	/110
K	1873	/-	/-	/827	/106	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 2.2 (Truss)
K Brg Wid = 6.0 Min Req = 2.2 (Truss)
Bearings B & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	595	- 2755	G - H	552	- 3076
C - D	412	- 2576	H - I	558	- 3088
D - E	558	- 3088	I - J	412	- 2576
E - F	551	- 3076	J - K	595	- 2755
F - G	552	- 3076			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	2063	- 226	N - M	2058	- 214
P - O	2058	- 228	M - K	2064	- 213
O - N	3263	- 431			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	1330	- 220	N - H	200	- 391
E - O	200	- 391	N - I	1330	- 220

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

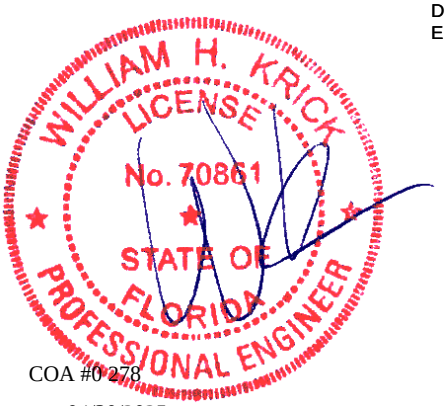
Loading

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.



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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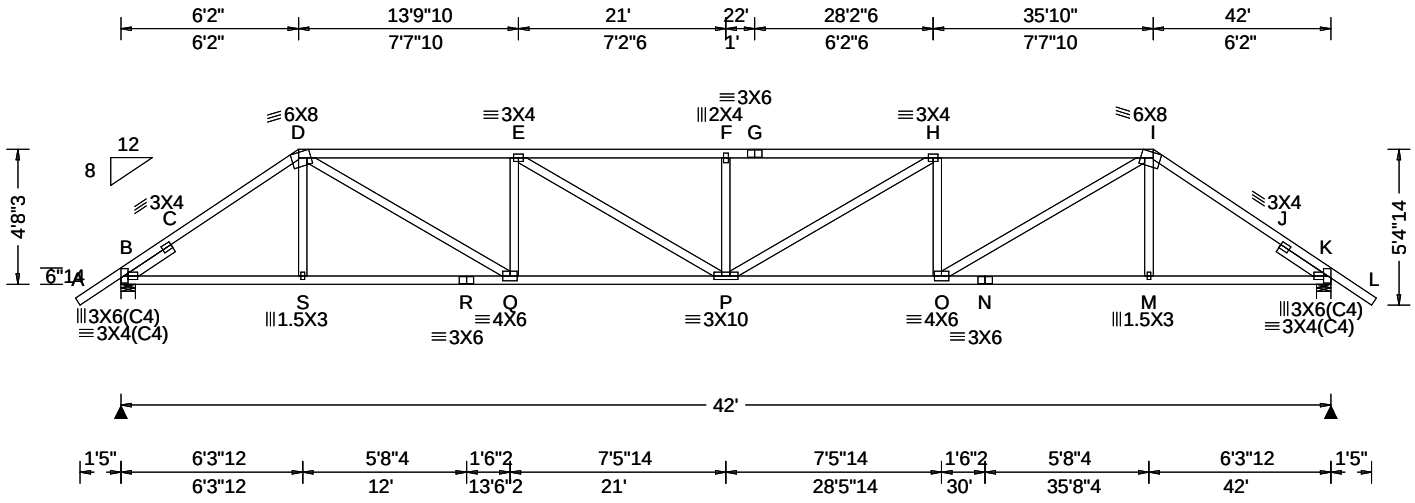
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29673 / HIPS FROM: RJL	Ply: 2 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** A5 42' Stepdown Hip Girder	Cust: R 857 JRef:1Y9K8570005 T39 DrwNo: 119.25.1524.24438 SSB / WHK 04/29/2025

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.20 ft
Loc. from endwall: NA
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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.294	F	999	360
VERT(CL): 0.566	F	879	240
HORZ(LL): 0.078	J	-	-
HORZ(TL): 0.151	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.701
Max BC CSI: 0.648
Max Web CSI: 0.615

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	3058	/-	/-	/-	/131	/-
K	3058	/-	/-	/-	/131	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.8 (Truss)
K Brg Wid = 6.0 Min Req = 1.8 (Truss)
Bearings B & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	92	- 2321	G - H	130	- 3698
C - D	85	- 2287	H - I	114	- 3245
D - E	114	- 3245	I - J	85	- 2287
E - F	130	- 3698	J - K	92	- 2321
F - G	130	- 3698			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	1853	- 66	P - O	3289	- 121
S - R	1859	- 64	O - N	1859	- 64
R - Q	1859	- 64	N - M	1859	- 64
Q - P	3289	- 121	M - K	1853	- 66

Maximum Web Forces Per Ply (lbs)

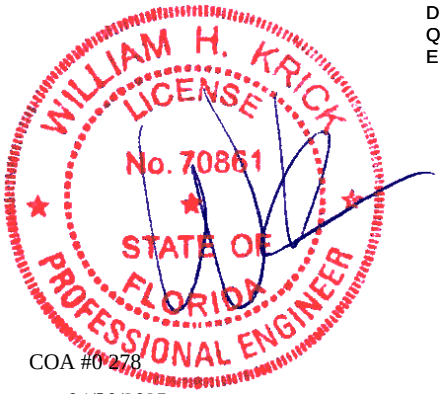
Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - Q	1613	- 58	P - H	479	- 11
Q - E	108	- 672	H - O	108	- 672
E - P	479	- 11	O - I	1613	- 58

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

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

Loading
#1 hip supports 6-2-0 jacks with no webs.
Left side jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang. End jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang. Right side jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang.

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



COA #0278
Florida Certificate of Product Approval #FL 1999
04/30/2025

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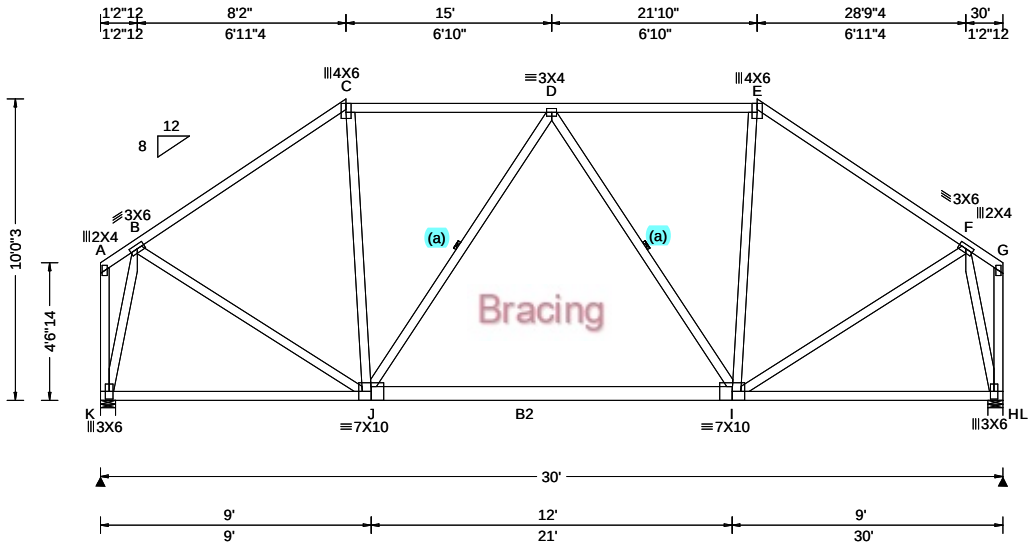
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29715 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** B1 30' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T28 / DrwNo: 119.25.1524.25078 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 17.39 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	D	999	360
VERT(CL): 0.062	D	999	240
HORZ(LL): 0.012	H	-	-
HORZ(TL): 0.020	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.374
Max BC CSI: 0.837
Max Web CSI: 0.734

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1293	/-	/-	/578	/9	/104
L	1293	/-	/-	/578	/9	/-

Wind reactions based on MWFRS
K Brg Wid = 6.0 Min Req = 1.5 (Truss)
L Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings K & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	304	- 1198	D - E	297	- 931
C - D	297	- 931	E - F	304	- 1198

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
J - I	1057	- 245

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	353	- 1405	I - F	706	- 95
B - J	706	- 95	F - H	353	- 1406

Lumber

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

Bracing

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

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.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

COA #0278

04/30/2025

Florida Certificate of Product Approval #FL 1999

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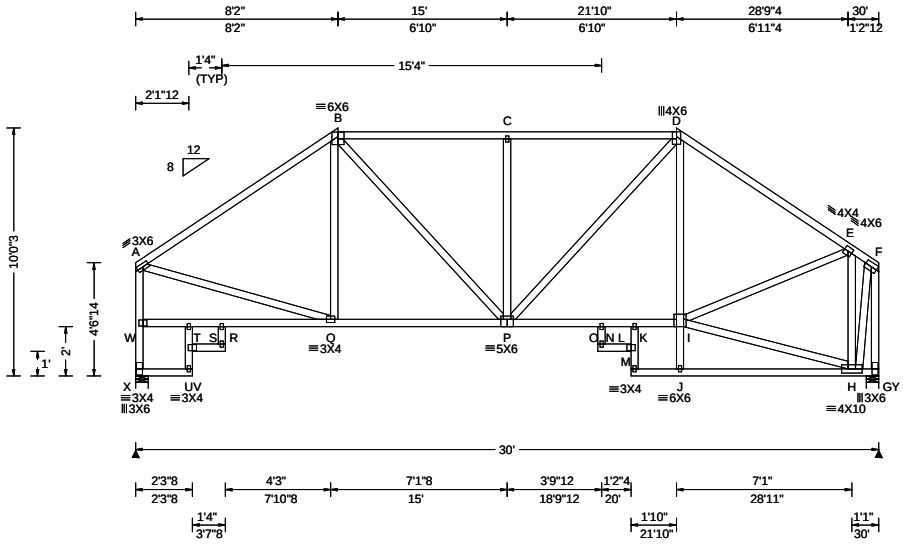
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29718 / HIPS FROM: RJL	Ply: 1 Qty: 3	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** B2 30' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T12 / DrwNo: 119.25.1524.25156 SSB / WHK 04/29/2025	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 17.39 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.075	R	999	360
VERT(CL): 0.214	R	999	240
HORZ(LL): 0.033	H	-	-
HORZ(TL): 0.079	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.934
Max BC CSI: 0.484
Max Web CSI: 0.613

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	1283	/-	/-	/578	/9	/104
Y	1283	/-	/-	/578	/9	/-

Wind reactions based on MWFRS
X Brg Wid = 6.0 Min Req = 1.5 (Truss)
Y Brg Wid = 6.0 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.
A - B	333	- 1420	C - D	432	- 1353
B - C	432	- 1353	D - E	347	- 1418

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1093	- 200	N - K	1093	- 191
P - N	1096	- 196	K - I	1101	- 189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - W	282	- 1222	P - D	484	- 144
A - Q	1088	- 191	I - E	831	- 142
X - W	264	- 1252	E - H	329	- 1213
B - P	413	- 139	H - F	1265	- 247
C - P	277	- 408	F - G	221	- 1311

Lumber

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

Plating Notes

All plates are 1.5X3 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.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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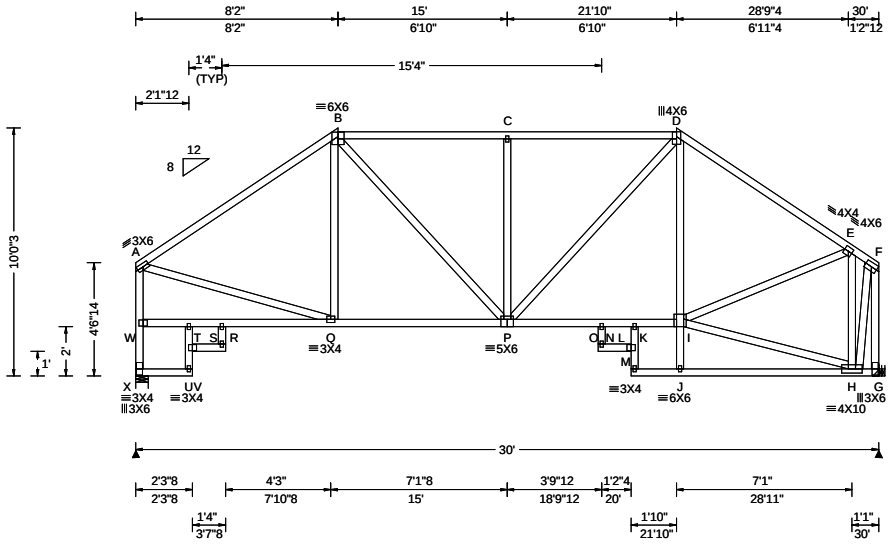
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29756 / HIPS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** B2a 30' Stepdown Hip	Cust: R 857 JRef:1Y9K8570005 T1 / DrwNo: 119.25.1524.25236 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 17.39 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.075	R	999	360
VERT(CL): 0.214	R	999	240
HORZ(LL): 0.033	H	-	-
HORZ(TL): 0.079	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.934
Max BC CSI: 0.484
Max Web CSI: 0.613

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	1283	/-	/-	/578	/9	/104
G	1283	/-	/-	/578	/9	/-

Wind reactions based on MWFRS
X Brg Wid = 6.0 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearing X 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	333	- 1420	C - D	432	- 1353
B - C	432	- 1353	D - E	347	- 1418

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1093	- 200	N - K	1093	- 191
P - N	1096	- 196	K - I	1101	- 189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - W	282	- 1222	P - D	484	- 144
A - Q	1088	- 191	I - E	831	- 142
X - W	264	- 1252	E - H	329	- 1213
B - P	413	- 139	H - F	1265	- 247
C - P	277	- 408	F - G	221	- 1311

Lumber

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

Plating Notes

All plates are 1.5X3 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

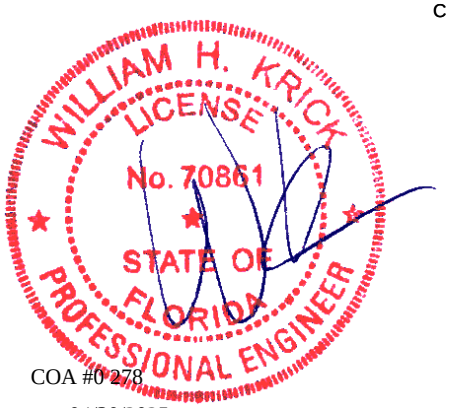
Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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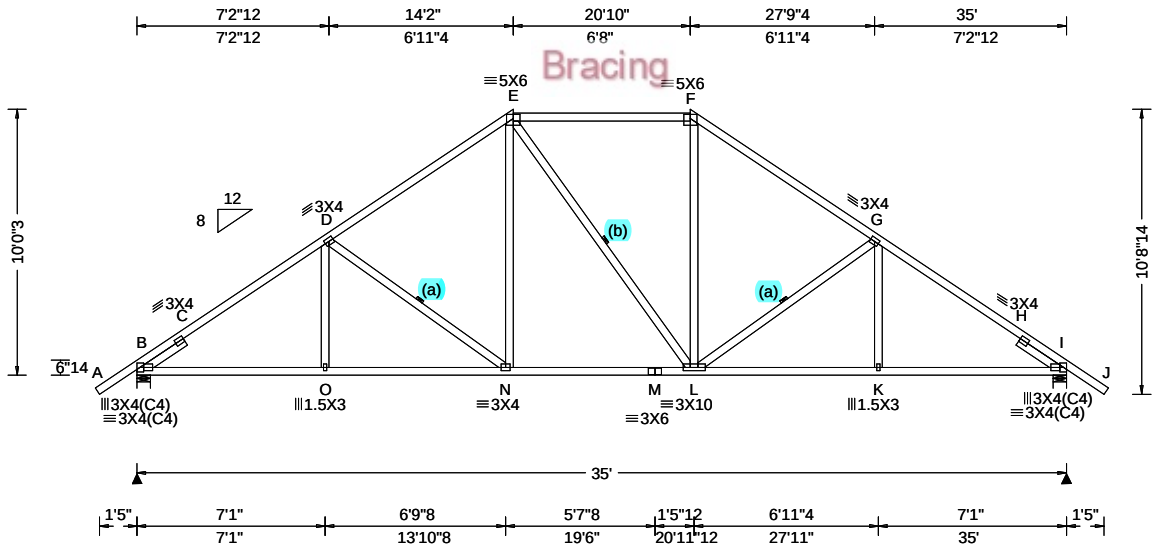
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30619 / COMN FROM: RJL	Ply: 1 Qty: 5	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** C1 35' Common	Cust: R 857 JRef:1Y9K8570005 T17 / DrwNo: 119.25.1524.25407 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.50 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.079	N	999	360
VERT(CL): 0.143	N	999	240
HORZ(LL): 0.040	I	-	-
HORZ(TL): 0.072	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.509
Max Web CSI: 0.334

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1522	/-	/-	/721	/-	/184
I	1510	/-	/-	/721	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.8 (Truss)
I Brg Wid = 6.0 Min Req = 1.8 (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	389	- 2183	F - G	284	- 1641
C - D	236	- 2015	G - H	235	- 1996
D - E	285	- 1670	H - I	388	- 2175
E - F	281	- 1273			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	1606	- 90	M - L	1288	- 20
O - N	1603	- 90	L - K	1588	- 94
N - M	1288	- 20	K - I	1590	- 94

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - E	492	0	L - G	92	- 382
F - L	455	0			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

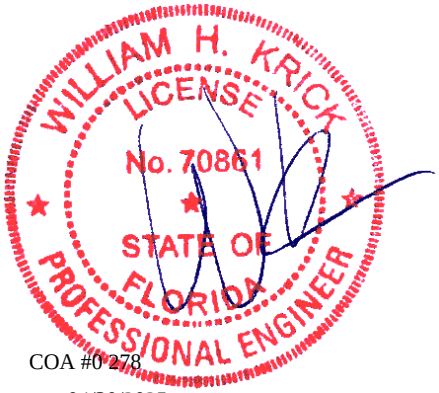
Loading

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.



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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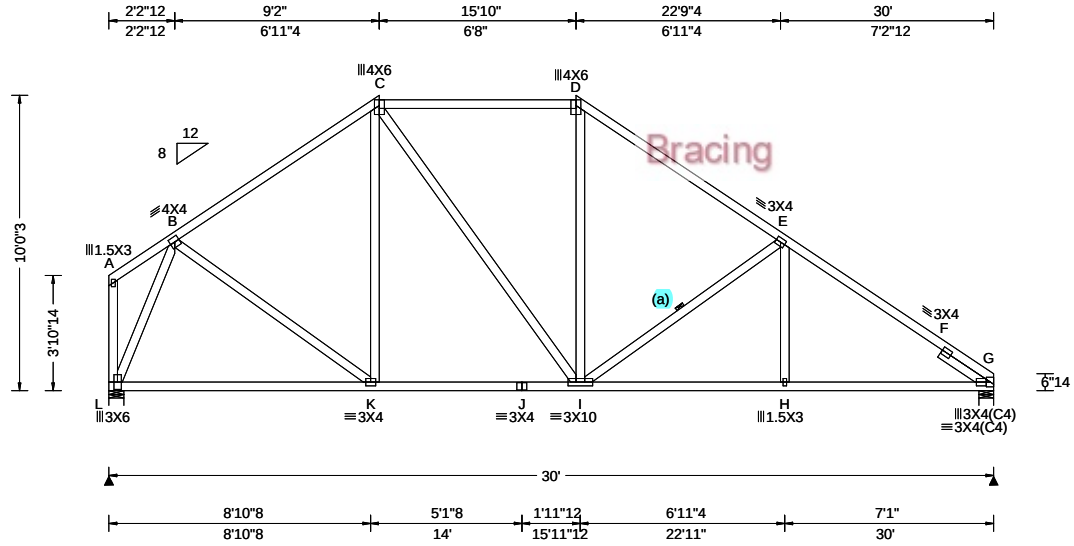
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30621 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** C1s 30' Common	Cust: R 857 JRef:1Y9K8570005 T29 / DrwNo: 119.25.1524.24876 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.39 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	I	999	360
VERT(CL): 0.078	I	999	240
HORZ(LL): 0.023	G	-	-
HORZ(TL): 0.041	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.532
Max BC CSI: 0.579
Max Web CSI: 0.752

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1242	/-	/-	/565	/-	/172
G	1222	/-	/-	/625	/-	/-

Wind reactions based on MWFRS
L Brg Wid = 6.0 Min Req = 1.5 (Truss)
G Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 1167	E - F	222	- 1695
C - D	270	- 999	F - G	399	- 1890
D - E	267	- 1313			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	517	- 69	I - H	1346	- 110
K - J	884	- 12	H - G	1348	- 110
J - I	884	- 12			

Maximum Web Forces Per Ply (lbs)

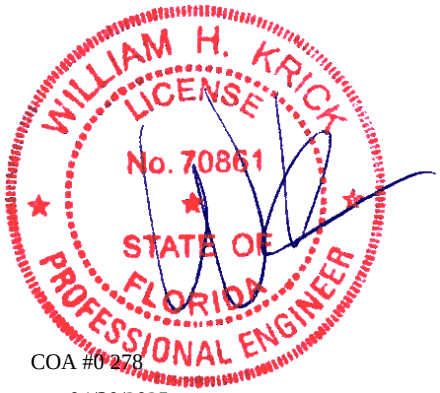
Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	233	- 1298	I - E	99	- 424
B - K	459	- 5			

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Rt Slider: 2x4 SP #3; block length = 1.958'

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

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.
Left end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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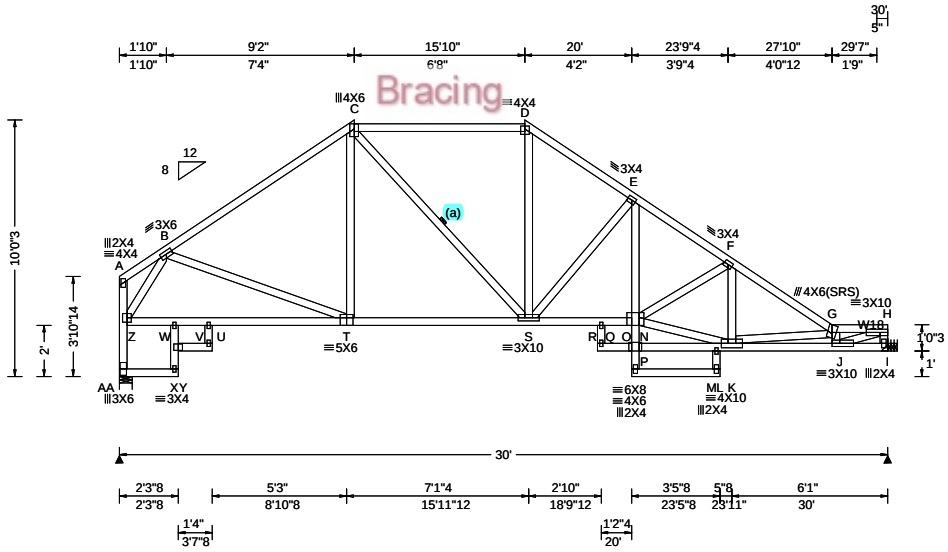
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30597 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1 30' Common	Cust: R 857 JRef:1Y9K8570005 T46 DrwNo: 119.25.1524.24453 SSB / WHK 04/29/2025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.119 O 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.292 U 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.061 C - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.120 C - -
NCBCLL: 10.00	Mean Height: 16.11 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.446
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.683
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: No	Max Web CSI: 0.805
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	1236	/-	/-	/570	/-	/148
I	1199	/-	/-	/594	/-	/-

Wind reactions based on MWFRS
AA Brg Wid = 6.0 Min Req = 1.5 (Truss)
I Brg Wid = - Min Req = -
Bearing AA is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	261	-1446	E - F	336	-2132
C - D	297	-1245	F - G	311	-2219
D - E	311	-1552	G - H	378	-2697

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Z - W	835	-88	S - Q	1718	-170
W - V	831	-93	Q - N	1677	-163
V - T	827	-111	K - J	3143	-460
T - S	1107	-66			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AA- Z	190	-1210	N - K	1790	-212
Z - B	330	-1458	K - G	249	-1348
D - S	501	-1	G - J	218	-1173
S - E	116	-719	J - H	2867	-400
E - N	685	-66	H - I	179	-1108

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W18 2x4 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

All plates are 1.5X3 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

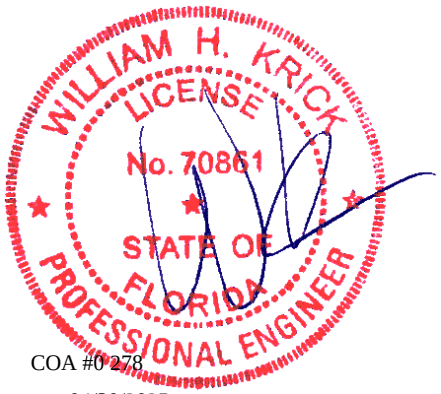
Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0 278
Florida Certificate of Product Approval #FL 1999
04/30/2025

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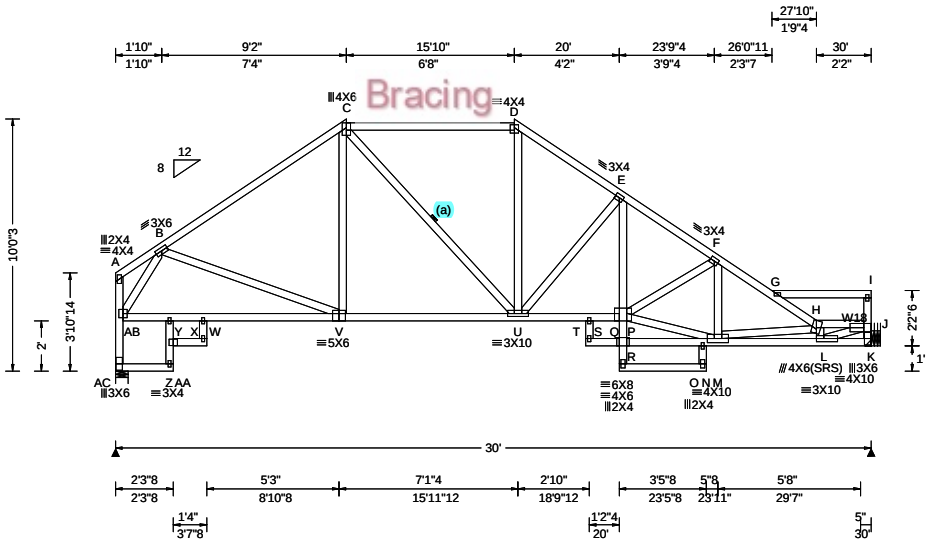
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30599 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1a 30' Common	Cust: R 857 JRef:1Y9K8570005 T27 / DrwNo: 119.25.1524.23969 SSB / WHK 04/29/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.124 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.291 W 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.060 C - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.117 C - -
NCBCLL: 10.00	Mean Height: 16.11 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.446
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.702
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: No	Max Web CSI: 0.713
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	1236	/-	/-	/572	/-	/127
K	1199	/-	/-	/575	/-	/-

Wind reactions based on MWFRS
AC Brg Wid = 6.0 Min Req = 1.5 (Truss)
K Brg Wid = - Min Req = -
Bearing AC is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	272	-1446	E - F	367	-2135
C - D	307	-1245	F - G	330	-2155
D - E	326	-1551	G - H	362	-2149

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB- Y	835	-124	U - S	1717	-216
Y - X	831	-130	S - P	1676	-207
X - V	827	-130	M - L	2984	-470
V - U	1107	-104			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC-AB	196	-1210	M - H	198	-1180
AB- B	315	-1459	H - L	185	-962
D - U	500	-9	H - J	407	-2547
U - E	131	-717	L - J	2866	-389
E - P	693	-91	J - K	213	-1112
P - M	1796	-272			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W18 2x4 SP #1;

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

All plates are 1.5X3 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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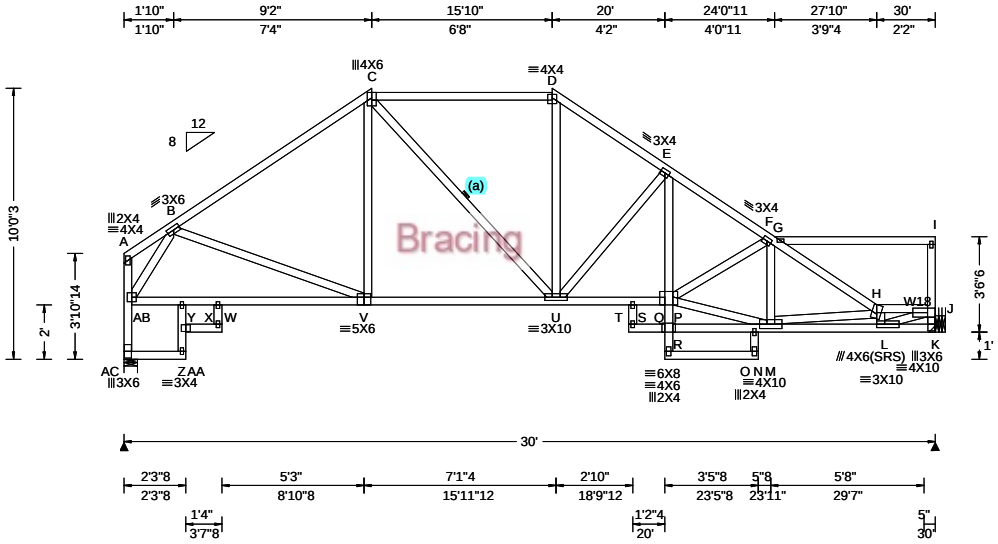
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 30611 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1b 30' Common	Cust: R 857 JRef:1Y9K8570005 T22 / DrwNo: 119.25.1524.24985 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 16.11 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.113	Q	999	360
VERT(CL): 0.291	W	999	240
HORZ(LL): 0.059	C	-	-
HORZ(TL): 0.116	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.446
Max BC CSI: 0.641
Max Web CSI: 0.677

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	1236	/-	/-	/575	/-	/114
K	1199	/-	/-	/555	/-	/-

Wind reactions based on MWFRS
AC Brg Wid = 6.0 Min Req = 1.5 (Truss)
K Brg Wid = - Min Req = -
Bearing AC is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	288	- 1446	E - F	405	- 2128
C - D	324	- 1245	F - G	344	- 2053
D - E	350	- 1553	G - H	389	- 2084

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB- Y	835	- 166	U - S	1720	- 285
Y - X	831	- 173	S - P	1679	- 275
X - V	827	- 182	M - L	2749	- 441
V - U	1107	- 151			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC-AB	205	- 1210	M - H	102	- 960
AB- B	301	- 1458	H - L	194	- 914
D - U	503	- 23	H - J	350	- 2334
U - E	161	- 721	L - J	2750	- 425
E - P	676	- 110	J - K	257	- 1119
P - M	1778	- 337			

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W18 2x4 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
All plates are 1.5X3 except as noted.

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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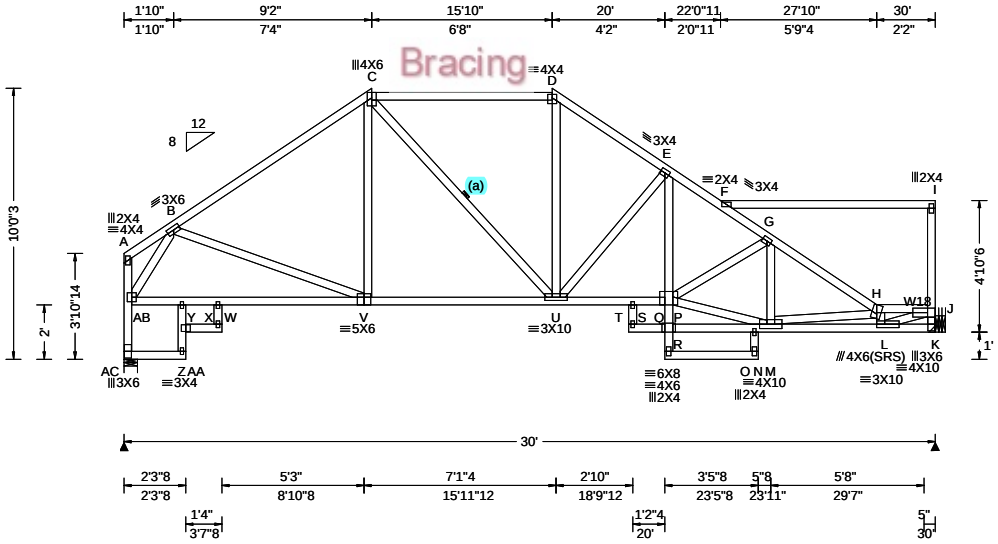
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30613 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1c 30' Common	Cust: R 857 JRef:1Y9K8570005 T31 / DrwNo: 119.25.1524.25406 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 16.11 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.133	F	999	360
VERT(CL): 0.291	W	999	240
HORZ(LL): 0.057	C	-	-
HORZ(TL): 0.115	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.769
Max BC CSI: 0.621
Max Web CSI: 0.648

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AC	1236	/-	/-	/580	/-	/112
K	1199	/-	/-	/538	/20	/-

Wind reactions based on MWFRS
AC Brg Wid = 6.0 Min Req = 1.5 (Truss)
K Brg Wid = - Min Req = -
Bearing AC is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	309	- 1447	E - F	430	- 2044
C - D	346	- 1243	F - G	488	- 2127
D - E	382	- 1560	G - H	415	- 2004

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB- Y	835	- 209	U - S	1731	- 368
Y - X	830	- 217	S - P	1691	- 356
X - V	827	- 236	M - L	2629	- 457
V - U	1107	- 201			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AC-AB	216	- 1210	M - H	89	- 915
AB- B	289	- 1458	H - L	197	- 859
D - U	520	- 48	H - J	365	- 2257
U - E	205	- 741	L - J	2594	- 436
E - P	602	- 90	J - K	299	- 1122
P - M	1700	- 364			

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W18 2x4 SP #1;

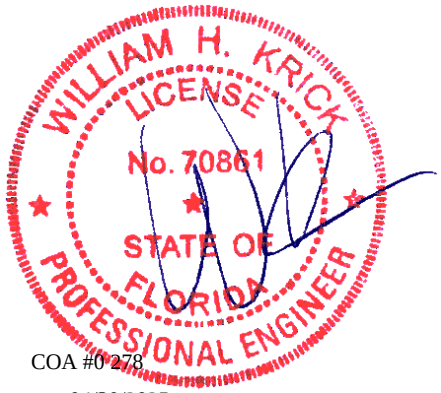
Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
All plates are 1.5X3 except as noted.

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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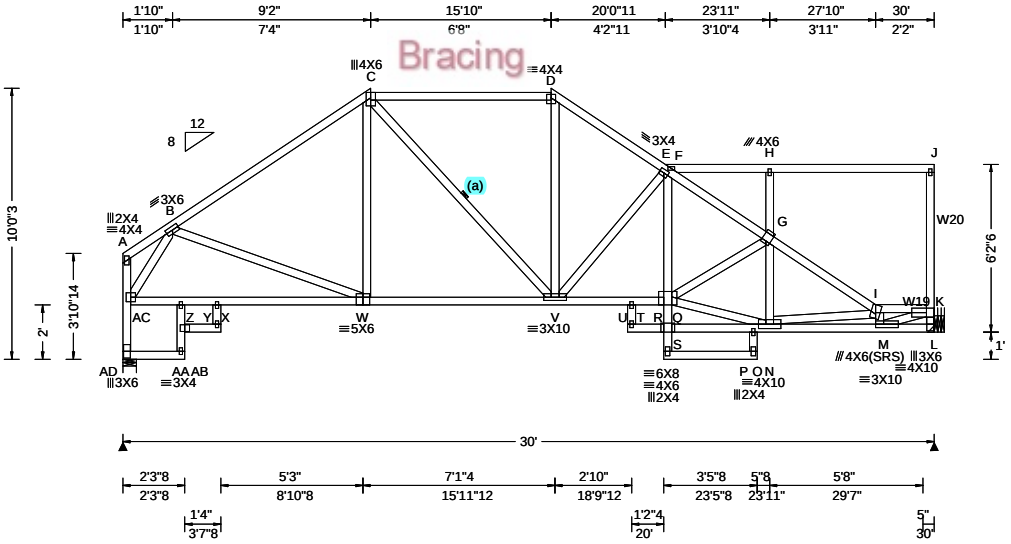
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30615 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1d 30' Common	Cust: R 857 JRef:1Y9K8570005 T23 / DrwNo: 119.25.1524.25281 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 16.11 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.115	R	999	360
VERT(CL): 0.291	X	999	240
HORZ(LL): 0.059	C	-	-
HORZ(TL): 0.116	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.446
Max BC CSI: 0.661
Max Web CSI: 0.680

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
AD	1236	/-	/-	/586	/-	/111
L	1199	/-	/-	/543	/47	/-

Wind reactions based on MWFRS
AD Brg Wid = 6.0 Min Req = 1.5 (Truss)
L Brg Wid = - Min Req = -
Bearing AD is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	332	- 1446	E - F	500	- 2015
C - D	374	- 1245	F - G	522	- 2040
D - E	404	- 1550	G - I	602	- 2150

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AC- Z	835	- 253	V - T	1715	- 435
Z - Y	831	- 262	T - Q	1674	- 422
Y - W	827	- 291	N - M	2828	- 706
W - V	1107	- 253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AD-AC	228	- 1210	N - I	202	- 1032
AC- B	280	- 1459	I - M	283	- 928
D - V	496	- 42	I - K	594	- 2457
V - E	216	- 713	M - K	2778	- 672
E - Q	685	- 174	K - L	331	- 1115
Q - N	1786	- 502			

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W19,W20 2x4 SP #1;

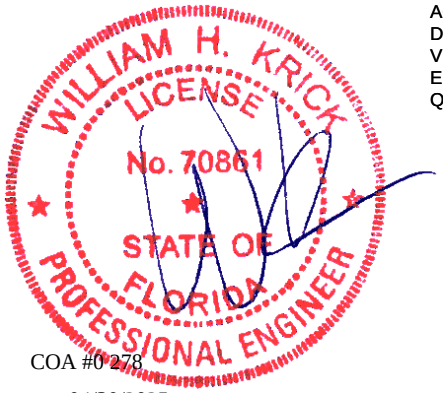
Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes
All plates are 1.5X3 except as noted.

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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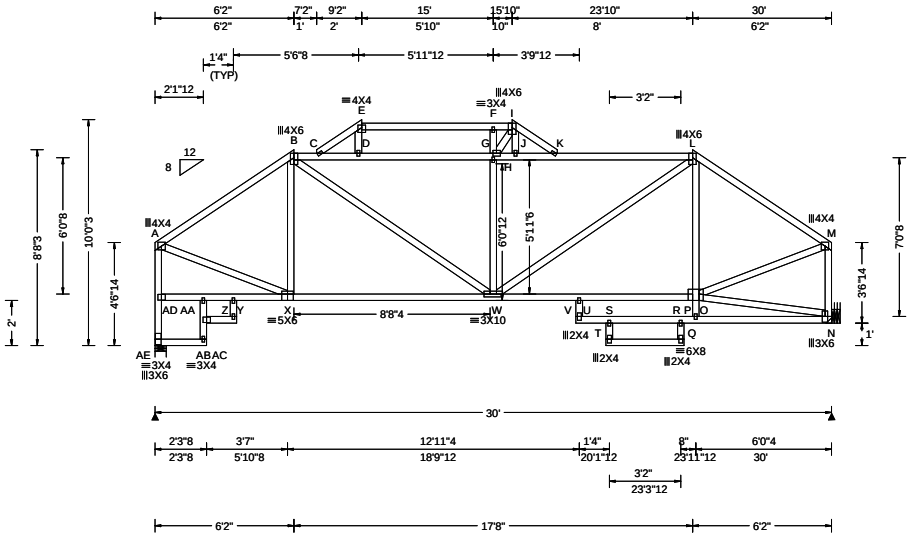
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30617 / SPEC FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** D1e 30' Special	Cust: R 857 JRef:1Y9K8570005 T45 DrwNo: 119.25.1524.24642 SSB / WHK 04/29/2025



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria				
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#	
TCDL:	7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL):	0.172 K	999	360	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.308 K	999	240	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.056 I	-	-	
Des Ld:	37.00	EXP: B Kzt: NA		HORZ(TL):	0.102 I	-	-	
NCBCLL:	10.00	Mean Height: 17.39 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI:	0.738			
Load Duration:	1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI:	0.575			
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: No	Max Web CSI:	0.526			
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)					
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15				
		GCpi: 0.18	WAVE					
		Wind Duration: 1.60						

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AE	1285	/-	/-	/574	/-	/102
N	1285	/-	/-	/572	/-	/-

Wind reactions based on MWFRS
AE Brg Wid = 6.0 Min Req = 1.5 (Truss)
N Brg Wid = - Min Req = -
Bearing AE 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	306	- 1368	H - J	628	- 1787
B - C	493	- 1651	J - K	633	- 1789
C - D	519	- 1635	K - L	499	- 1664
D - G	510	- 1621	L - M	332	- 1391
G - H	510	- 1621			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
X - W	1084	- 204	U - O	1098	- 220
W - U	1103	- 225			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A -AD	272	- 1257	F - H	409	- 647
A - X	1139	- 204	W - L	772	- 204
AE-AD	263	- 1262	O - M	1153	- 232
B - W	797	- 232	M - N	287	- 1237
G - W	358	- 604			

Lumber

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

Plating Notes

All plates are 1.5X3 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

COA #0 278

04/30/2025

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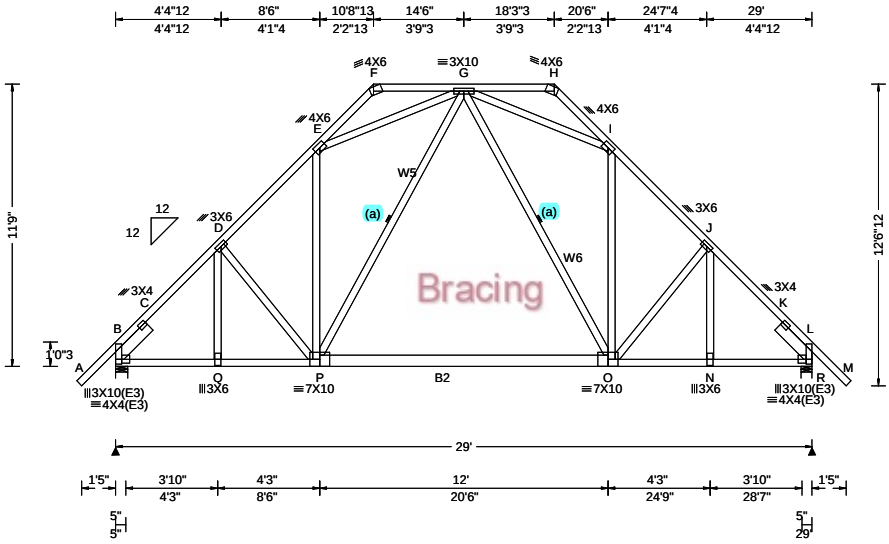
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30041 / COMN FROM: RJL	Ply: 1 Qty: 7	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** E1 29' Common	Cust: R 857 JRef:1Y9K8570005 T33 / DrwNo: 119.25.1524.24625 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.67 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	O	999	360
VERT(CL): 0.076	O	999	240
HORZ(LL): 0.042	K	-	-
HORZ(TL): 0.075	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.360
Max BC CSI: 0.733
Max Web CSI: 0.715

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1414	/-	/-	/624	/-	/237
R	1414	/-	/-	/624	/-	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.7 (Truss)
R Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	241	- 1554	I - J	264	- 1412
C - D	202	- 1494	J - K	201	- 1494
D - E	264	- 1412	K - L	240	- 1554

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	968	- 44	O - N	968	- 36
Q - P	968	- 44	N - L	968	- 37
P - O	848	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - G	192	- 849	G - I	192	- 849

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B2 2x6 SP #1;
Webs: 2x4 SP #3; W5,W6 2x4 SP #1;
Lt Slider: 2x6 SP #1; block length = 1.958'
Rt Slider: 2x6 SP #1; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

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.

COA #0278
04/30/2025
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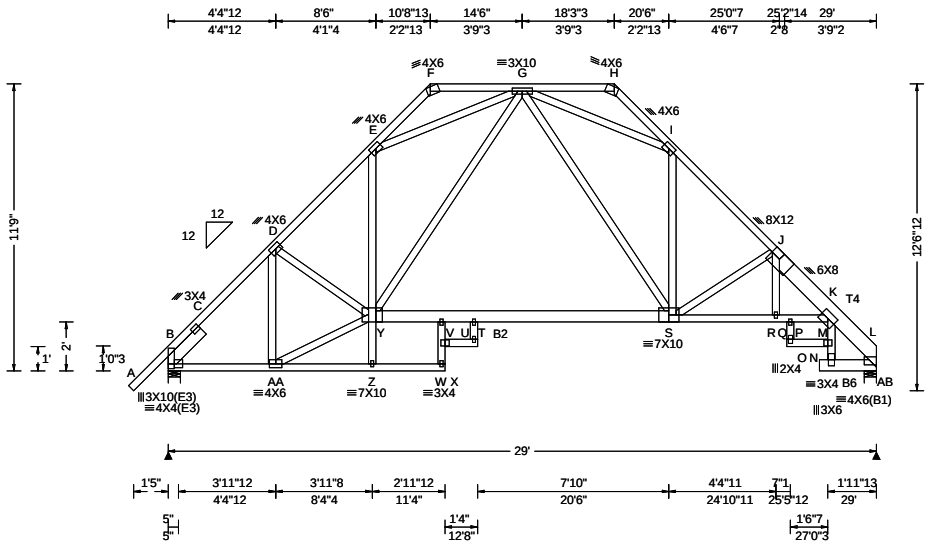
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34730 COMN FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** E2 29' Common	Cust: R 857 JRef:1Y9K8570005 T37 DrwNo: 119.25.1735.55547 SSB / WHK 04/29/2025



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.173 T 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.373 T 929 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.159 L - -
Des Ld:	37.00	EXP: B Kzt: NA		HORZ(TL): 0.225 L - -
NCBCLL:	10.00	Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.425
Load Duration:	1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.691
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.778
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1253	/-	/-	/622	/49	/252
AB	1160	/-	/-	/617	/32	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
AB Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings B & AB 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	240	- 1367	I - J	264	- 1506
C - D	201	- 1307	J - K	247	- 1702
D - E	266	- 1528	K - L	120	- 842

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AA	843	- 77	S - R	1534	- 146
Y - V	884	- 8	R - P	1541	- 148
V - U	877	- 13	P - K	1483	- 140
U - S	868	- 25			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D -AA	63	- 445	E - G	194	- 926
AA- Y	964	- 69	G - I	209	- 894
Y - G	386	- 79	S - J	140	- 620

Lumber

Top chord: 2x4 SP #1; T4 2x8 SP SS Dense;
Bot chord: 2x4 SP #1; B2,B6 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Plating Notes

All plates are 1.5X3 except as noted.

Loading

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

Purlins

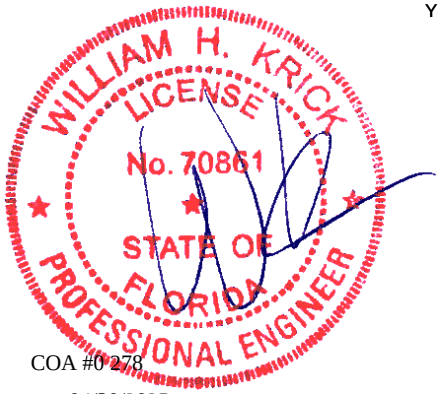
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



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04/30/2025

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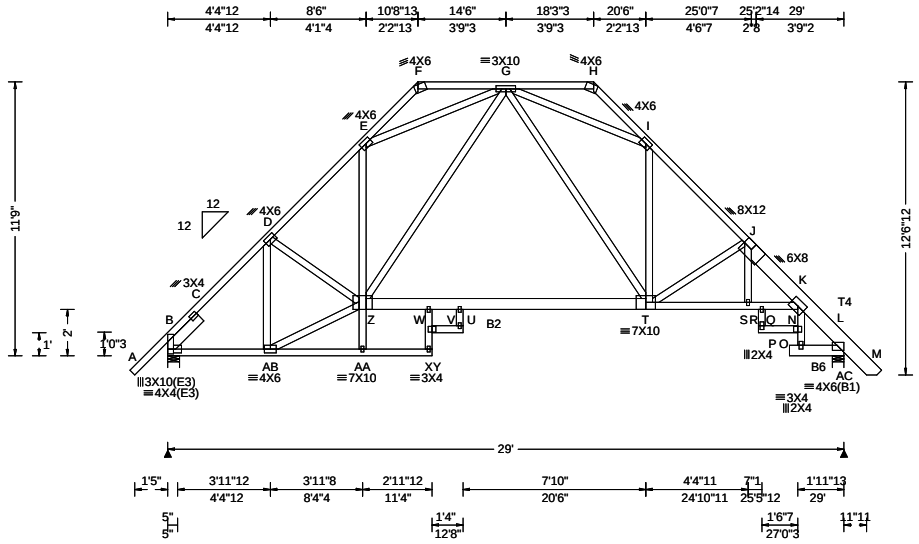
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34725 COMN FROM: RJL	Ply: 1 Qty: 6	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** E2a 29' Common	Cust: R 857 JRef:1Y9K8570005 T20 DrwNo: 119.25.1735.59623 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.67 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.140	U	999	360
VERT(CL): 0.372	U	931	240
HORZ(LL): 0.122	L	-	-
HORZ(TL): 0.217	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.408
Max BC CSI: 0.689
Max Web CSI: 0.776

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	1251	/-	/-	/622	/48	/237
AC	1255	/-	/-	/631	/47	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
AC Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings B & AC 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	240	- 1364	I - J	243	- 1494
C - D	201	- 1304	J - K	222	- 1686
D - E	243	- 1523	K - L	160	- 841

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AB	841	- 45	T - S	1507	- 64
Z - W	880	0	S - Q	1514	- 66
W - V	873	0	Q - K	1458	- 62
V - T	864	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D -AB	41	- 444	E - G	178	- 923
AB- Z	962	- 35	G - I	194	- 886
Z - G	387	- 76	T - J	110	- 598

Lumber

Top chord: 2x4 SP #1; T4 2x8 SP SS Dense;
Bot chord: 2x4 SP #1; B2,B6 2x6 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Plating Notes

All plates are 1.5X3 except as noted.

Loading

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

Purlins

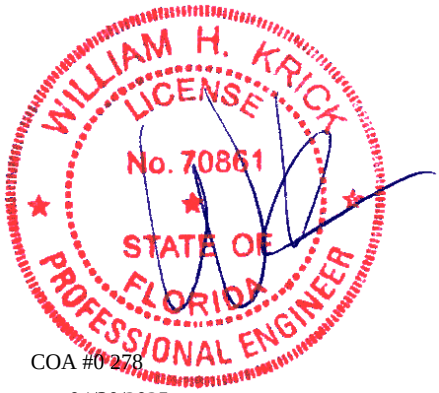
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

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

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0278
04/30/2025
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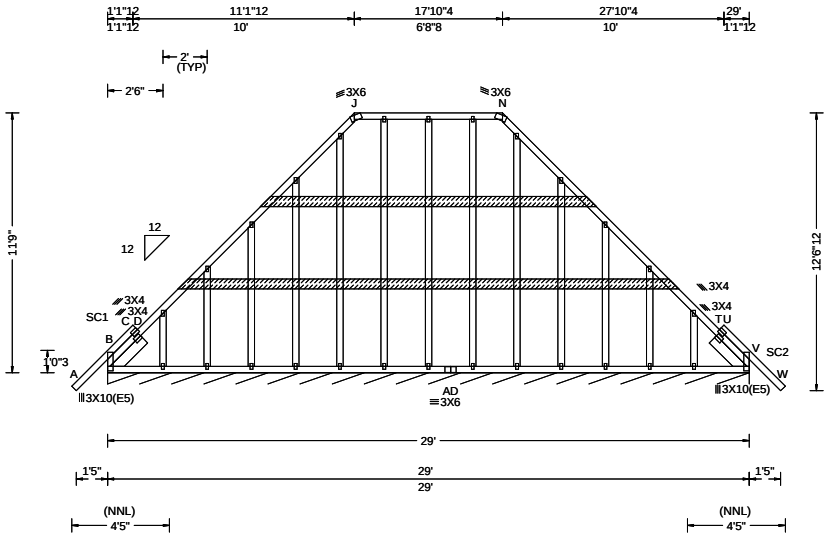
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 30002 / GABL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** E3-DG 29' Gable	Cust: R 857 JRef:1Y9K8570005 T15 / DrwNo: 119.25.1524.24875 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.67 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	L	999	360
VERT(CL): 0.006	L	999	240
HORZ(LL): -0.001	U	-	-
HORZ(TL): 0.009	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.190
Max BC CSI: 0.042
Max Web CSI: 0.446

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	141	/-	/-	/49	/9	/11

Wind reactions based on MWFRS
B Brg Wid = 348 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	169	-378

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;
Lt Slider: 2x6 SP #1; block length = 1.958'
Rt Slider: 2x6 SP #1; block length = 1.958'

Plating Notes

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Wind loading based on both gable and hip roof types.

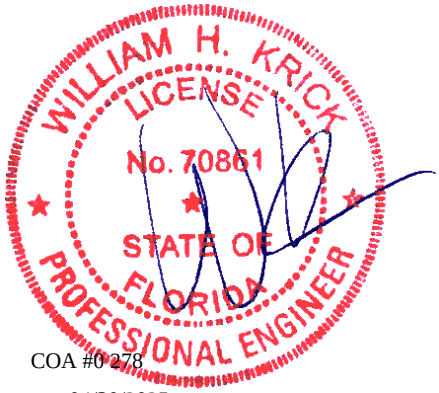
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0278

04/30/2025

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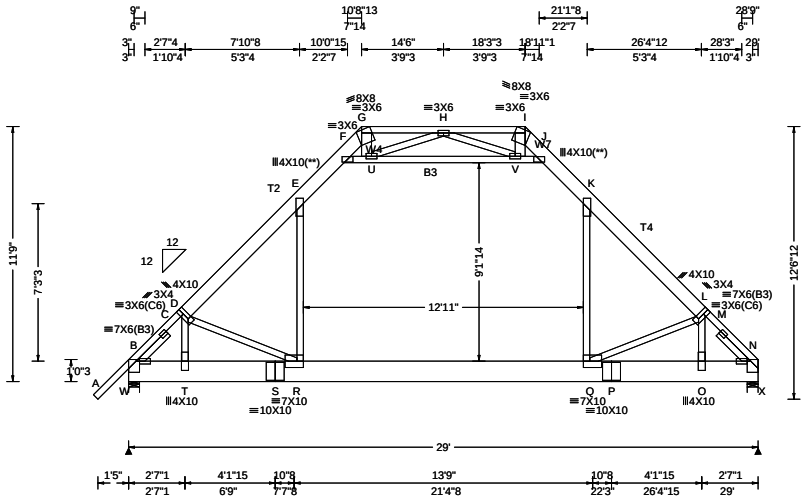
Glenview, IL 60025

SEQN: 30645 / COMN FROM: RJL Page 1 of 2	Ply: 2 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G1 29' Common Girder	Cust: R 857 JRef:1Y9K8570005 T35 / DrwNo: 119.25.1524.23750 SSB / WHK 04/29/2025

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): -0.096 Q 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.205 Q 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.076 K - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.185 K - -
NCBCLL: 0.00	Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.357
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.762
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.444
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	3552	/-	/-	/1079	/58	/250
X	3911	/-	/-	/1313	/41	/-

Wind reactions based on MWFRS
W Brg Wid = 6.0 Min Req = 2.1 (Truss)
X Brg Wid = 6.0 Min Req = 2.3 (Truss)
Bearings W & X 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	59	- 1168	I - J	88	- 457
C - D	104	- 1813	J - K	168	- 1575
D - E	132	- 2295	K - L	133	- 2382
E - F	168	- 1529	L - M	113	- 2059
F - G	87	- 408	M - N	61	- 1350

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	1288	- 52	Q - P	1427	- 60
T - S	1232	- 49	P - O	1427	- 60
S - R	1232	- 49	O - N	1478	- 63
R - Q	1528	- 9			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	42	- 685	U - V	41	- 1561
D - T	31	- 598	V - I	438	- 66
D - R	392	- 88	V - J	149	- 1859
E - R	948	0	Q - K	824	0
F - U	151	- 1993	O - L	35	- 493
G - U	512	- 67	M - N	48	- 791

Lumber

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;
Bot chord: 2x12 SP #2; B3 2x4 SP #1;
Webs: 2x4 SP #3; W4,W7 2x6 SP #1;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 8.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	60 plf at	-1.62 to	60 plf at	29.00	
TC: From	70 plf at	18.27 to	70 plf at	29.00	
PLT: From	28 plf at	8.04 to	28 plf at	9.93	
PLT: From	20 plf at	9.93 to	20 plf at	19.07	
PLT: From	28 plf at	19.07 to	28 plf at	20.96	
PLT: From	100 plf at	8.04 to	100 plf at	20.96	
BC: From	6 plf at	-1.62 to	6 plf at	0.00	
BC: From	20 plf at	0.00 to	20 plf at	29.00	

TC: 652 lb Conc. Load at 10.73,18.27
BC: 145 lb Conc. Load at 8.04,20.96
BC: 472 lb Conc. Load at 9.19
BC: 605 lb Conc. Load at 18.27

Plating Notes

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

Purlins

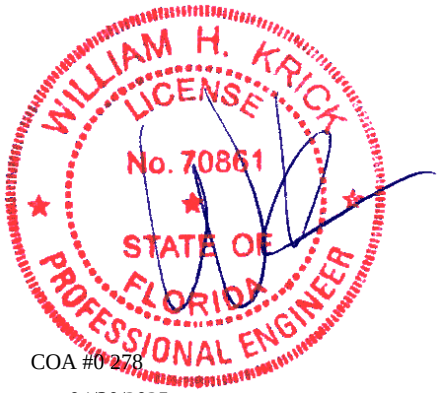
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Wind loading based on both gable and hip roof types.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data,including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



COA #0 278
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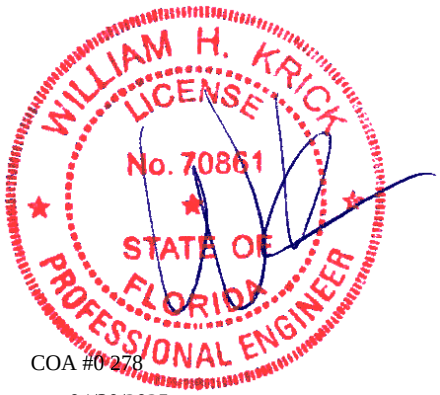
Glenview, IL 60025

Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)
Bearing 2 located at 28.5' (blocking >= 3.50" if used)



COA #0278
04/30/2025
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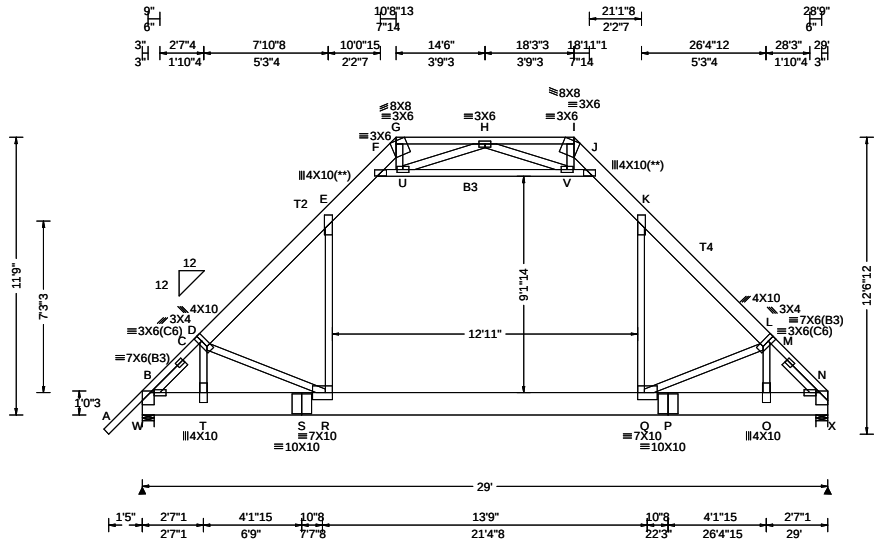
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30637 / COMN FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G2 29' Common	Cust: R 857 JRef:1Y9K8570005 T13 / DrwNo: 119.25.1524.25846 SSB / WHK 04/29/2025



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00		Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00		Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.106 Q 999 360
BCLL: 0.00		Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.237 Q 999 240
BCDL: 10.00		Risk Category: II	Snow Duration: NA	HORZ(LL): 0.087 E - -
Des Ld: 37.00		EXP: B Kzt: NA		HORZ(TL): 0.195 E - -
NCBCLL: 10.00		Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00		TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.405
Load Duration: 1.25		BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.963
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.545
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	2218	/-	/-	/628	/58	/250
X	2112	/-	/-	/612	/41	/-

Wind reactions based on MWFRS
W Brg Wid = 6.0 Min Req = 2.6 (Truss)
X Brg Wid = 6.0 Min Req = 2.5 (Truss)
Bearings W & X 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	119	- 1423	H - I	652	0
C - D	208	- 2173	J - K	335	- 1607
D - E	264	- 2635	K - L	266	- 2639
E - F	336	- 1609	L - M	226	- 2204
G - H	657	- 3	M - N	123	- 1446

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	1549	- 104	Q - P	1522	- 120
T - S	1485	- 98	P - O	1522	- 120
S - R	1485	- 98	O - N	1584	- 125
R - Q	1699	- 19			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	83	- 825	H - V	208	- 401
D - T	61	- 652	V - I	752	- 133
E - R	1245	0	V - J	293	- 2437
F - U	297	- 2444	Q - K	1245	0
G - U	756	- 135	O - L	71	- 641
U - H	213	- 405	M - N	97	- 833
U - V	83	- 1853			

Lumber

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;
Bot chord: 2x12 SP #2; B3 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Plating Notes

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

Loading

Attic room loading from 8-0-8 to 20-11-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)
Bearing 2 located at 28.5' (blocking >= 3.50" if used)

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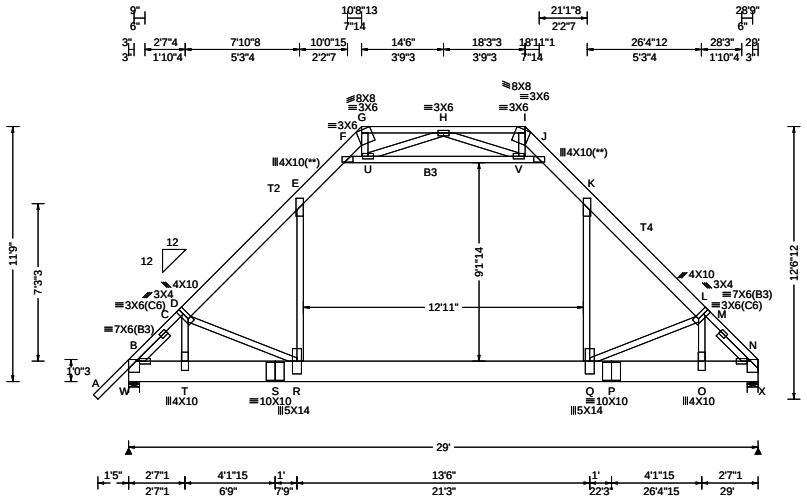
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30633 / COMN FROM: RJL Page 1 of 2	Ply: 5 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G2a 29' Common Girder	Cust: R 857 JRef:1Y9K8570005 T24 / DrwNo: 119.25.1524.24487 SSB / WHK 04/29/2025

5 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.079 Q 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.209 Q 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.061 E - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.164 E - -
NCBCLL: 0.00	Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.396
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.673
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: No	Max Web CSI: 0.562
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	10006	/-	/-	/928	/49	/250
X	8055	/-	/-	/1013	/33	/-

Wind reactions based on MWFRS
W Brg Wid = 6.0 Min Req = 2.4 (Truss)
X Brg Wid = 6.0 Min Req = 1.9 (Truss)
Bearings W & X 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	18	-1374	H - I	865	0
C - D	31	-2077	J - K	58	-1066
D - E	42	-2136	K - L	43	-2140
E - F	58	-1068	L - M	34	-1762
G - H	870	-1	M - N	18	-1160

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	1484	-15	Q - P	1212	-17
T - S	1442	-16	P - O	1212	-17
S - R	1442	-16	O - N	1259	-18
R - Q	1394	-2			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	12	-722	V - I	549	-22
E - R	1468	0	V - J	38	-2430
F - U	39	-2436	Q - K	1476	0
G - U	553	-23	O - L	120	-487
U - V	15	-2120	M - N	16	-620

Lumber

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;
Bot chord: 2x12 SP #2; B3 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 9.00" o.c.
Bot Chord: 1 Row @ 2.75" 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.
In addition, apply (1) 0.22"-0.25" min/max dia. X 4.5" length wood screw (from each outside face) at each joint location.

Special Loads

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

TC: From	60 plf at	-1.62 to	60 plf at	29.00
PLT: From	28 plf at	8.04 to	28 plf at	9.93
PLT: From	20 plf at	9.93 to	20 plf at	19.07
PLT: From	28 plf at	19.07 to	28 plf at	20.96
PLT: From	100 plf at	8.04 to	100 plf at	20.96
BC: From	6 plf at	-1.62 to	6 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	29.00
BC: From	330 plf at	2.00 to	330 plf at	21.25

BC: 1625 lb Conc. Load at 2.00
BC: 2003 lb Conc. Load at 8.00
BC: 145 lb Conc. Load at 8.04,20.96
BC: 3750 lb Conc. Load at 21.25

Plating Notes

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

Purlins

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

Wind

Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

COA #0 278
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Glenview, IL 60025

Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data,including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

COA #0 278

04/30/2025

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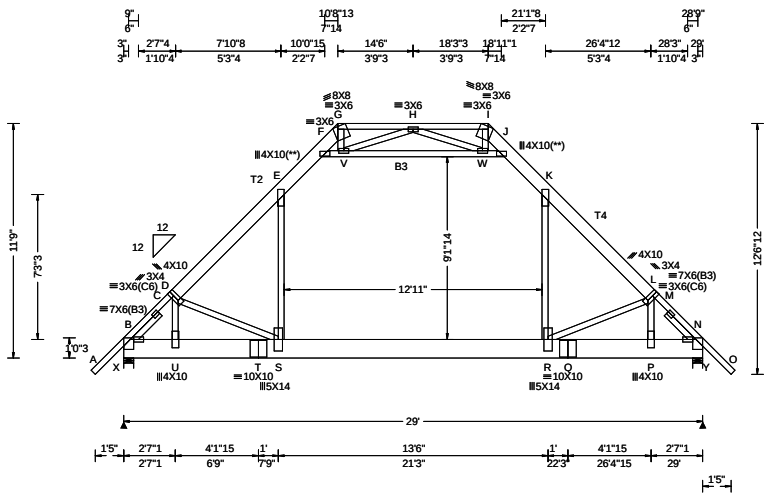
Glenview, IL 60025

SEQN: 30629 / COMN FROM: RJL Page 1 of 2	Ply: 5 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G2b 29' Common Girder	Cust: R 857 JRef:1Y9K8570005 T56 / DrwNo: 119.25.1524.24172 SSB / WHK 04/29/2025

5 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.67 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.079	R	999	360
VERT(CL): 0.209	R	999	240
HORZ(LL): 0.062	E	-	-
HORZ(TL): 0.164	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.395
Max BC CSI: 0.672
Max Web CSI: 0.561

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	9980	/-	/-	/929	/48	/236
Y	8136	/-	/-	/996	/48	/-

Wind reactions based on MWFRS
X Brg Wid = 6.0 Min Req = 2.4 (Truss)
Y Brg Wid = 6.0 Min Req = 1.9 (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	18	-1370	H - I	864	0
C - D	32	-2071	J - K	58	-1060
D - E	42	-2129	K - L	41	-2132
E - F	58	-1061	L - M	32	-1750
G - H	868	-1	M - N	18	-1152

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	1480	-12	R - Q	1200	-6
U - T	1438	-13	Q - P	1200	-6
T - S	1438	-13	P - N	1248	-7
S - R	1389	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	13	-719	W - I	548	-23
E - S	1468	0	W - J	38	-2423
F - V	38	-2429	R - K	1474	0
G - V	552	-23	P - L	120	-490
V - W	15	-2114	M - N	13	-616

Lumber

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;
Bot chord: 2x12 SP #2; B3 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @10.00" o.c.
Bot Chord: 1 Row @ 2.75" 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.
In addition, apply (1) 0.22"-0.25" min/max dia. X 4.5" length wood screw (from each outside face) at each joint location.

Special Loads

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

TC: From	60 plf at	-1.62 to	60 plf at	30.62
TC: From	28 plf at	8.04 to	28 plf at	9.93
TC: From	28 plf at	19.07 to	28 plf at	20.96
PLT: From	20 plf at	9.93 to	20 plf at	19.07
PLT: From	100 plf at	8.04 to	100 plf at	20.96
BC: From	6 plf at	-1.62 to	6 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	29.00
BC: From	330 plf at	2.00 to	330 plf at	21.25
BC: From	6 plf at	29.00 to	6 plf at	30.62

BC: 1625 lb Conc. Load at 2.00
BC: 2003 lb Conc. Load at 8.00
BC: 145 lb Conc. Load at 8.04,20.96
BC: 3750 lb Conc. Load at 21.25

Plating Notes

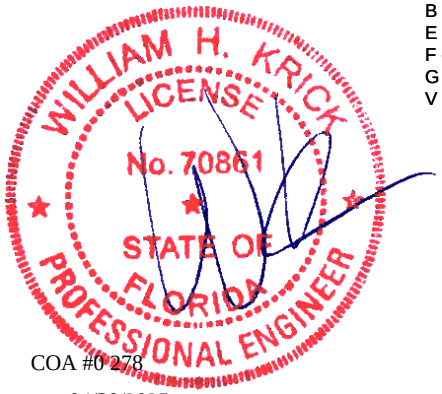
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Purlins

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

Wind

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



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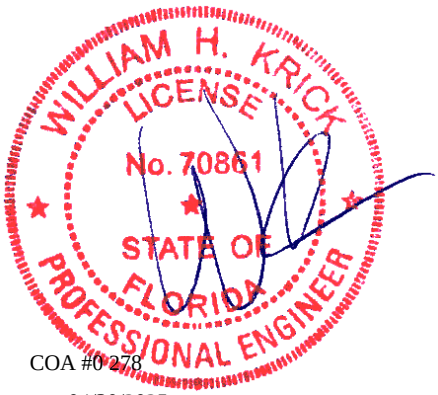
Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data,including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



COA #0278

04/30/2025

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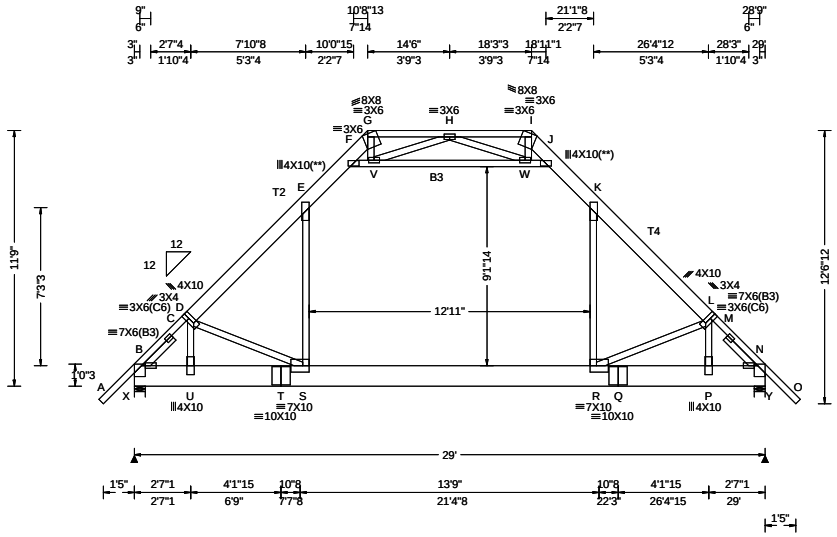
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30639 / COMN FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G2c 29' Common	Cust: R 857 JRef:1Y9K8570005 T11 / DrwNo: 119.25.1524.25172 SSB / WHK 04/29/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.105 R 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.235 R 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.086 E - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.195 E - -
NCBCLL: 10.00	Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.404
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.963
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.542
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

Lumber

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;
Bot chord: 2x12 SP #2; B3 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Plating Notes

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

Loading

Attic room loading from 8-0-8 to 20-11-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)
Bearing 2 located at 28.5' (blocking >= 3.50" if used)

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
X	2215	/-	/-	/628	/57	/236
Y	2215	/-	/-	/628	/57	/-

Wind reactions based on MWFRS
X Brg Wid = 6.0 Min Req = 2.6 (Truss)
Y Brg Wid = 6.0 Min Req = 2.6 (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	123	-1422	H - I	651	0
C - D	214	-2169	J - K	333	-1604
D - E	259	-2628	K - L	258	-2628
E - F	333	-1604	L - M	211	-2169
G - H	651	-3	M - N	121	-1422

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	1547	-61	R - Q	1483	-51
U - T	1483	-67	Q - P	1483	-51
T - S	1483	-67	P - N	1547	-57
S - R	1693	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - C	84	-823	H - W	211	-402
D - U	54	-647	W - I	752	-133
E - S	1240	0	W - J	291	-2431
F - V	290	-2431	R - K	1240	0
G - V	752	-133	P - L	70	-647
V - H	211	-402	M - N	84	-823
V - W	82	-1845			

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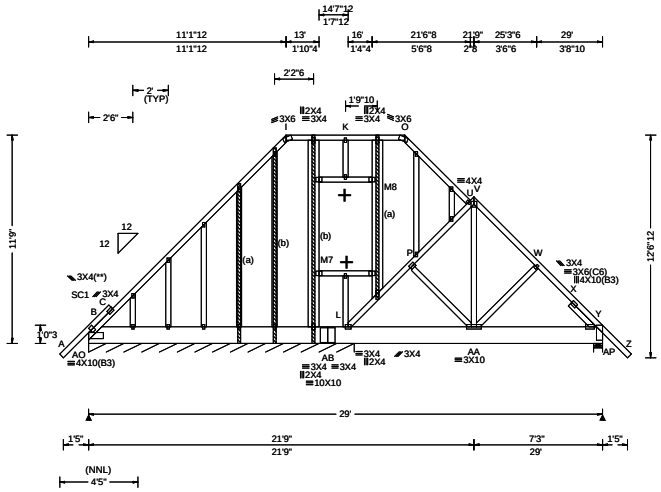
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29802 / GABL	Ply: 2	**Job Number:** B60868a	Cust: R 857 JRef:1Y9K8570005 T36	
FROM: RJL	Qty: 1	BORCHARDT RESIDENCE	DrwNo: 119.25.1524.24986	
Page 1 of 2		**Truss Label:** G3-SG 29' Gable	SSB / WHK 04/29/2025	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.008 K 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.018 K 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 N - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.012 N - -
NCBCLL: 0.00	Mean Height: 15.67 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.124
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.063
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.597
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO*202		/-	/-	/73	/17	/22
AP	1065	/-	/-	/409	/-	/-

Wind reactions based on MWFRS
AO Brg Wid = 180 Min Req = -
AP Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings AO & AP 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.
L - P	175	-534	V - W	54	-390
P - U	132	-390	W - X	28	-456

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x12 SP #2;
Webs: 2x4 SP #3; M7,M8 2x8 SP SS Dense;
Stack Chord: SC1 2x4 SP #1;
Rt Slider: 2x4 SP #3; block length = 1.958'

Nailnote

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

Plating Notes

All plates are 1.5X3 except as noted.

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

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Wind loading based on both gable and hip roof types.

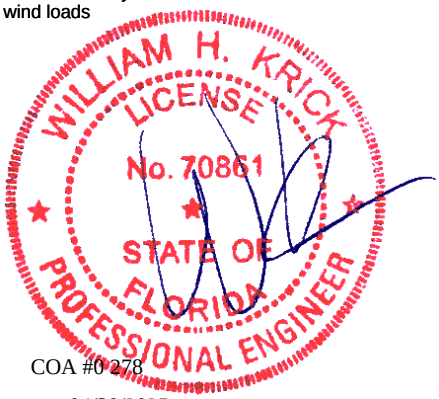
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/228.

Gable Reinforcement

(a) 2x3 "T" reinforcement. Any species and grade. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.
(b) 2x3 "T" reinforcement. Same species and grade as web. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

+ Member to be laterally braced for out of plane wind loads



COA #0278
04/30/2025
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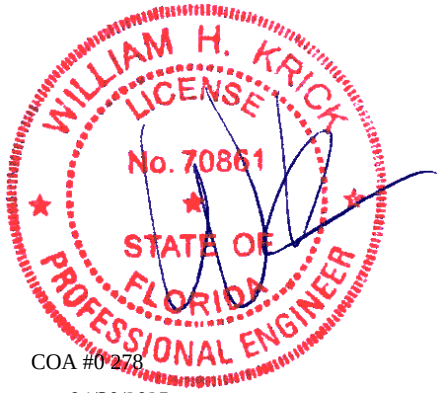
Glenview, IL 60025

SEQN: 29802 / GABL FROM: RJL Page 2 of 2	Ply: 2 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** G3-SG 29' Gable	Cust: R 857 JRef:1Y9K8570005 T36 / DrwNo: 119.25.1524.24986 SSB / WHK 04/29/2025

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0278

04/30/2025

Florida Certificate of Product Approval #FL 1999

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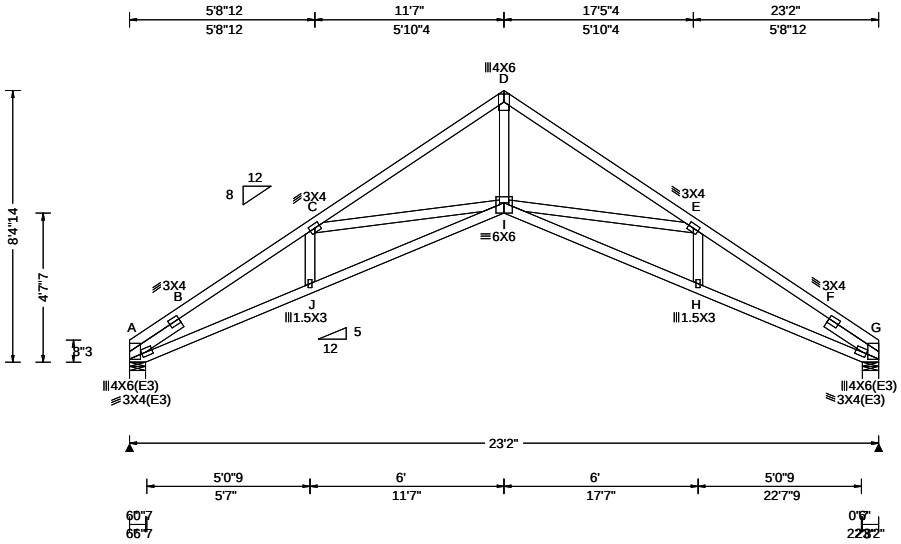
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30593 / SCIS FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** H1 23'2" Scissor	Cust: R 857 JRef:1Y9K8570005 T7 / DrwNo: 119.25.1524.24987 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.186	I	999	360
VERT(CL): 0.365	I	761	240
HORZ(LL): 0.196	G	-	-
HORZ(TL): 0.384	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.378
Max BC CSI: 0.525
Max Web CSI: 0.665

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	909	/-	/-	/474	/33	/144
G	909	/-	/-	/474	/33	/-

Wind reactions based on MWFRS
A Brg Wid = 6.0 Min Req = 1.5 (Truss)
G Brg Wid = 6.0 Min Req = 1.5 (Truss)
Bearings A & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	106	- 2558	D - E	28	- 2003
B - C	106	- 2498	E - F	100	- 2498
C - D	35	- 2003	F - G	101	- 2558

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - J	2147	- 43	I - H	2181	- 42
J - I	2181	- 47	H - G	2147	- 38

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	163	- 386	D - I	1745	0
I - E	164	- 386			

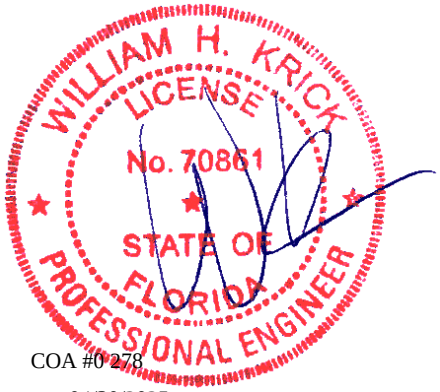
Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278
04/30/2025
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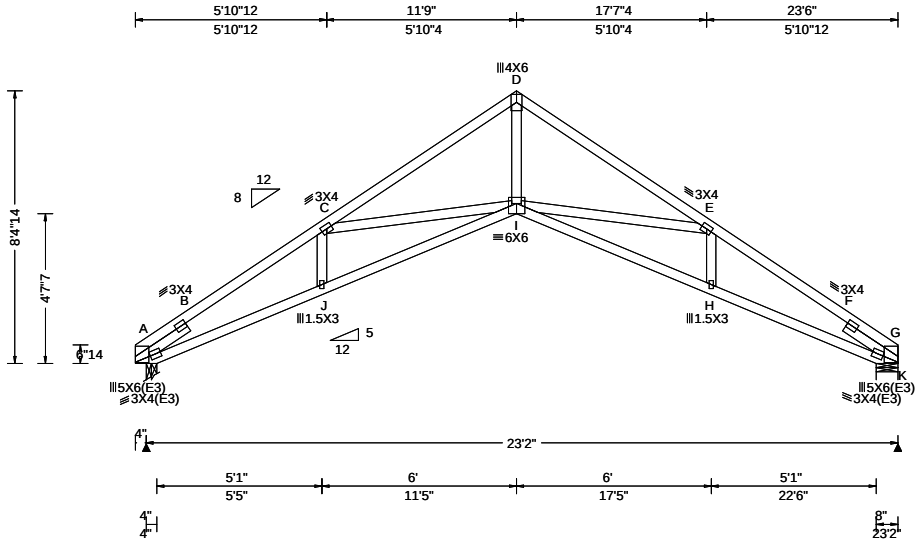
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30595 / SCIS FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** H1a 23'6" Scissor	Cust: R 857 JRef:1Y9K8570005 T6 / DrwNo: 119.25.1524.25501 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.187	I	999	360
VERT(CL): 0.368	I	750	240
HORZ(LL): 0.192	G	-	-
HORZ(TL): 0.377	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.589
Max BC CSI: 0.682
Max Web CSI: 0.653

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
A	942	/-	/-		/489	/36	/146
K	902	/-	/-		/470	/35	/-

Wind reactions based on MWFRS
A Brg Wid = 4.0 Min Req = 1.5 (Truss)
K Brg Wid = 8.0 Min Req = 1.5 (Truss)
Bearings A & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	148	- 2418	D - E	23	- 1979
B - C	93	- 2346	E - F	98	- 2535
C - D	27	- 1974	F - G	126	- 2592

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - J	1983	- 27	I - H	2220	- 39
J - I	2032	- 31	H - G	2190	- 34

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - E	168	- 445	D - I	1715	0

Lumber

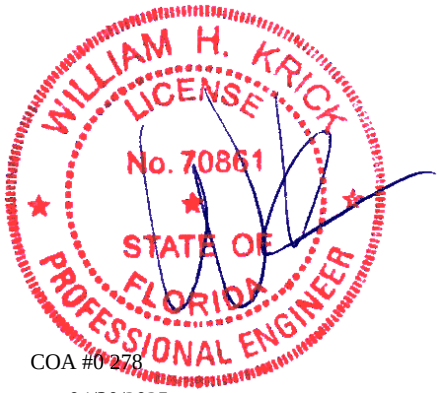
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Wind

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

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



COA #0 278
04/30/2025
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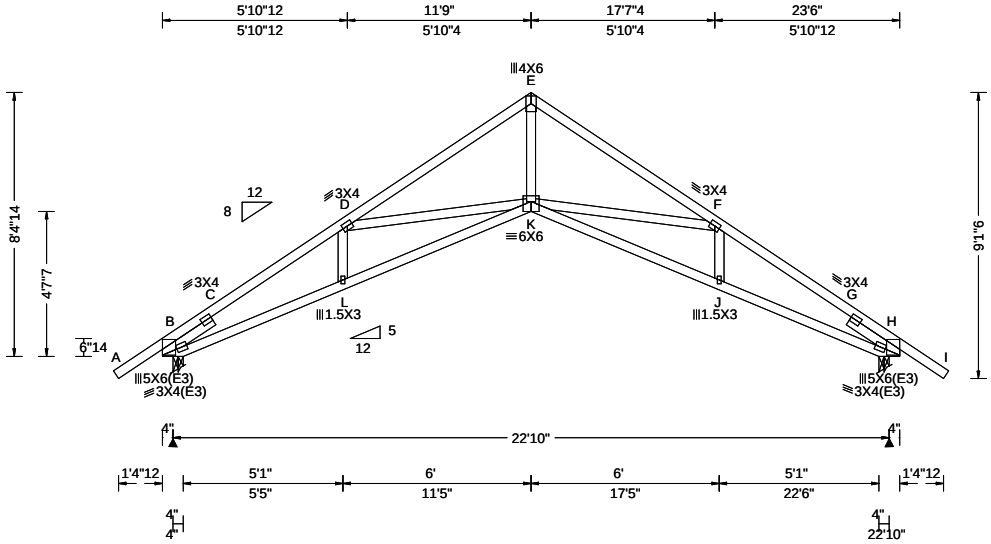
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30591 / SCIS FROM: RJL	Ply: 1 Qty: 4	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** H1b 23'6" Scissor	Cust: R 857 JRef:1Y9K8570005 T10 / DrwNo: 119.25.1524.25547 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	K	999	360
VERT(CL): 0.373	K	723	240
HORZ(LL): 0.208	G	-	-
HORZ(TL): 0.398	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.645
Max BC CSI: 0.717
Max Web CSI: 0.607

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1017	/-	/-	/487	/51	/148
H	1013	/-	/-	/487	/51	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5 (Truss)
H Brg Wid = 4.0 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	173	- 2285	E - F	61	- 1878
C - D	152	- 2213	F - G	166	- 2245
D - E	60	- 1877	G - H	189	- 2305

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1858	- 29	K - J	1943	- 51
L - K	1911	- 38	J - H	1893	- 44

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
E - K	1594	0

Lumber

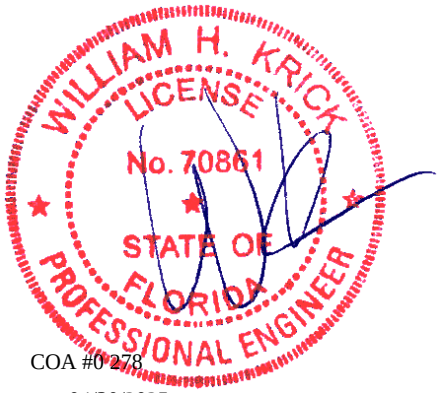
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

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.



COA #0278
04/30/2025
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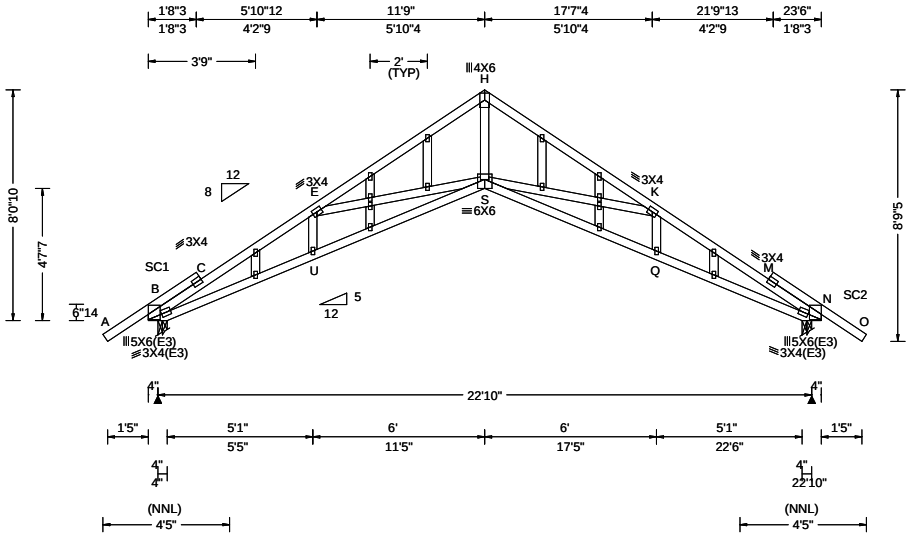
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29652 / GABL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** H2-SDG 23'6" Gable	Cust: R 857 JRef:1Y9K8570005 T8 / DrwNo: 119.25.1524.25581 SSB / WHK 04/29/2025	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.345 I 783 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.610 I 442 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.314 N - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.555 N - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.525
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.649
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.912
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 24.02.00C.1213.15
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1304	/-	/-	/570	/111	/196
N	1304	/-	/-	/570	/111	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5 (Truss)
N Brg Wid = 4.0 Min Req = 1.5 (Truss)
Bearings B & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	357	- 3422	H - K	213	- 2692
C - E	434	- 3348	K - M	454	- 3348
E - H	212	- 2692	M - N	378	- 3422

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	2951	- 214	S - Q	2983	- 229
U - S	2983	- 210	Q - N	2951	- 236

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - S	359	- 544	S - K	349	- 544
H - S	2394	- 95			

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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.

Left and right cantilevers are exposed to wind

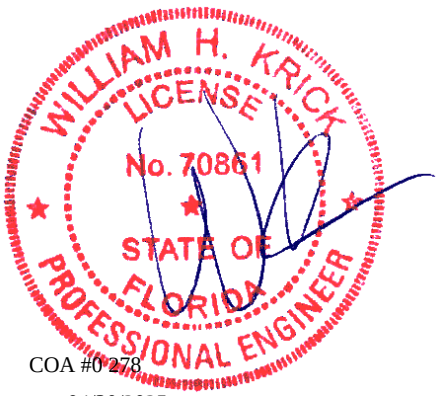
Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0 278

04/30/2025

Florida Certificate of Product Approval #FL 1999

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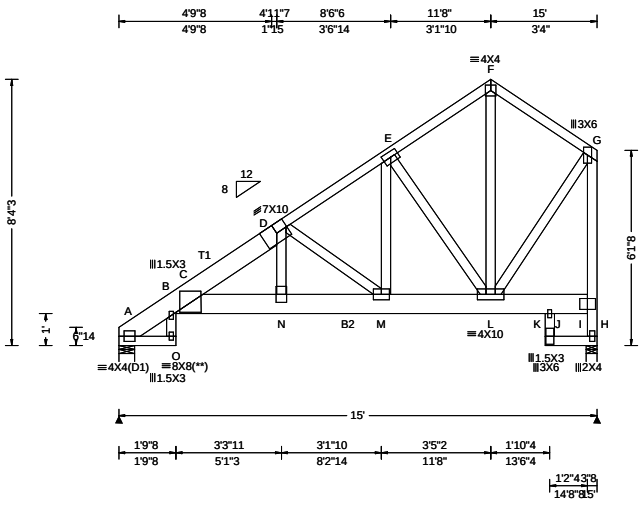
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29761 / COMN FROM: RJL	Ply: 3 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** K1 15' Common Girder	Cust: R 857 JRef:1Y9K8570005 T18 DrwNo: 119.25.1524.24704 SSB / WHK 04/29/2025

3 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.108 C 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.200 C 890 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.106 K - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.195 K - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.661
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.281
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.508
	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: 24.02.00C.1213.15
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4225	/-	/-	/34	/-	/-
H	5095	/-	/-	/-	/44	/-

Wind reactions based on MWFRS
A Brg Wid = 6.0 Min Req = 1.7 (Truss)
H Brg Wid = 4.0 Min Req = 2.0 (Truss)
Bearings A & 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.
A - B	0	- 793	D - E	11	- 1590
B - C	0	- 759	E - F	8	- 773
C - D	0	- 2277	F - G	10	- 783

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - N	2272	0	M - L	1237	- 7
N - M	2274	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	505	0	F - L	800	0
D - M	0	- 1185	L - G	1088	- 9
M - E	1333	0	I - G	17	- 1336
E - L	4	- 1061	I - H	15	- 1470

Lumber

Top chord: 2x4 SP #1; T1 2x8 SP SS Dense;
Bot chord: 2x4 SP #1; B2 2x8 SP SS Dense;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 2.50" 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	57 plf at	0.00 to	57 plf at	2.23	
TC: From	28 plf at	2.23 to	28 plf at	11.67	
TC: From	57 plf at	11.67 to	57 plf at	15.00	
BC: From	20 plf at	0.00 to	20 plf at	1.79	
BC: From	10 plf at	1.79 to	10 plf at	14.71	
BC: From	20 plf at	14.71 to	20 plf at	15.00	

BC: 1199 lb Conc. Load at 2.23, 4.23, 6.23, 8.23 10.23
BC: 1285 lb Conc. Load at 12.23
BC: 1283 lb Conc. Load at 14.23

Plating Notes

All plates are 4X6 except as noted.

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

Wind

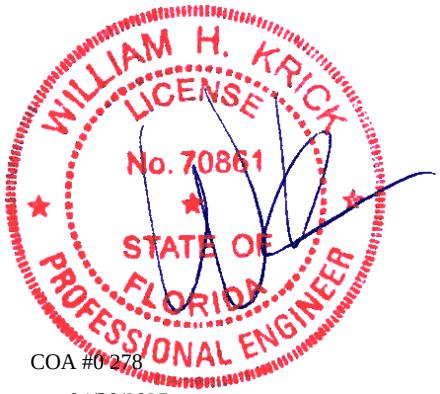
Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data,including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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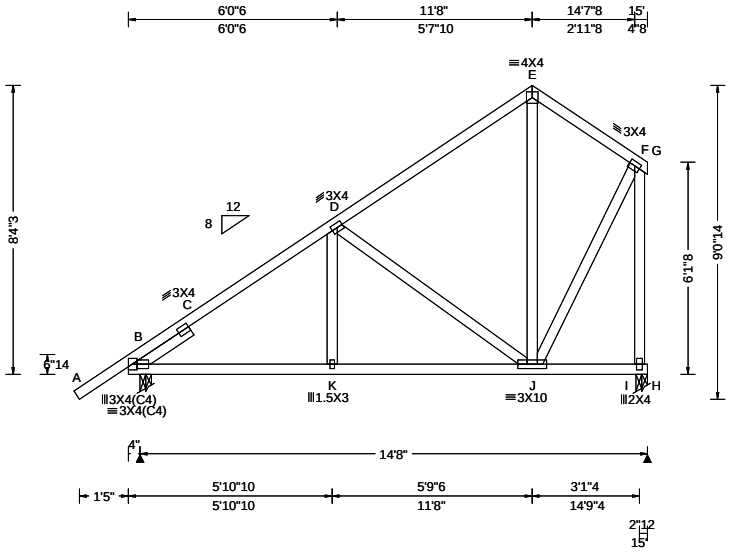
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30589 / COMN FROM: RJL	Ply: 1 Qty: 4	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** K2 15' Common	Cust: R 857 JRef:1Y9K8570005 T16 / DrwNo: 119.25.1524.23948 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	K	999	360
VERT(CL): 0.023	K	999	240
HORZ(LL): 0.004	J	-	-
HORZ(TL): 0.011	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.270
Max BC CSI: 0.221
Max Web CSI: 0.377

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	693	/-	/-	/326	/12	/153
H	552	/-	/-	/320	/49	/-

Wind reactions based on MWFRS
B Brg Wid = 4.0 Min Req = 1.5 (Truss)
H Brg Wid = 4.0 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	386	- 972	C - D	98	- 626

Maximum Bot Chord Forces Per Ply (lbs)

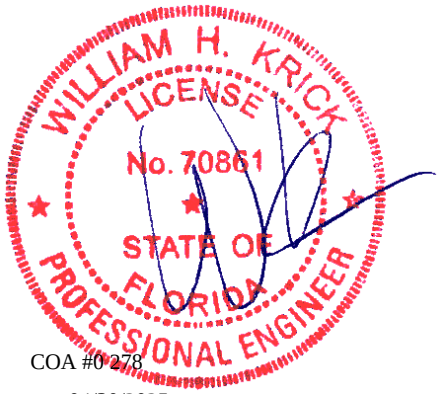
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	470	- 197	K - J	467	- 197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - F	391	- 104	F - I	182	- 531

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'

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



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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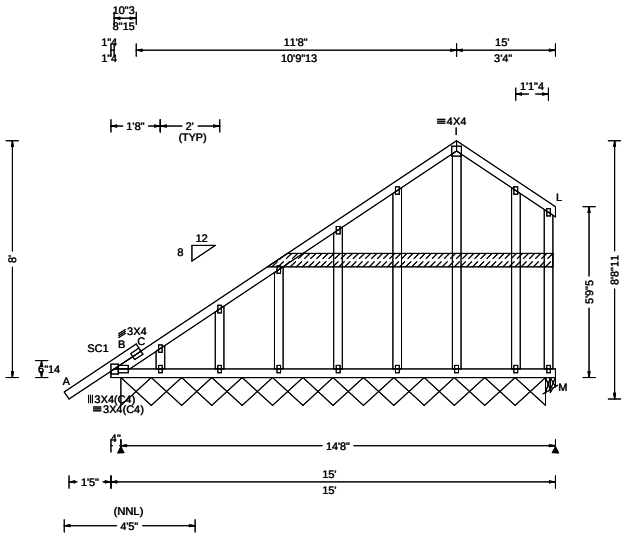
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29713 / GABL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** K3-DG 15' Gable	Cust: R 857 JRef:1Y9K8570005 T2 / DrwNo: 119.25.1524.25657 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	534	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.170
Max BC CSI: 0.108
Max Web CSI: 0.427

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	124	/-	/-	/53	/9	/14
M	52	/-	/-	/30	/6	/-

Wind reactions based on MWFRS
B Brg Wid = 172 Min Req = -
M Brg Wid = 4.0 Min Req = 1.5 (Truss)
Bearings B & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	452	- 727

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;

Plating Notes

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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.

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

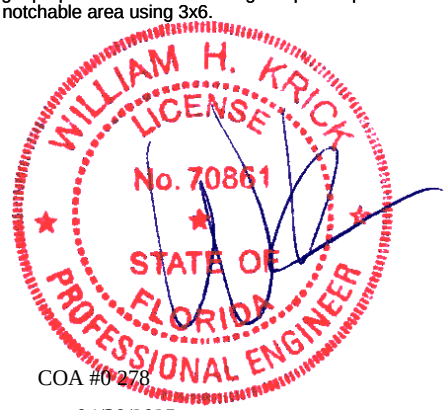
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/799.

Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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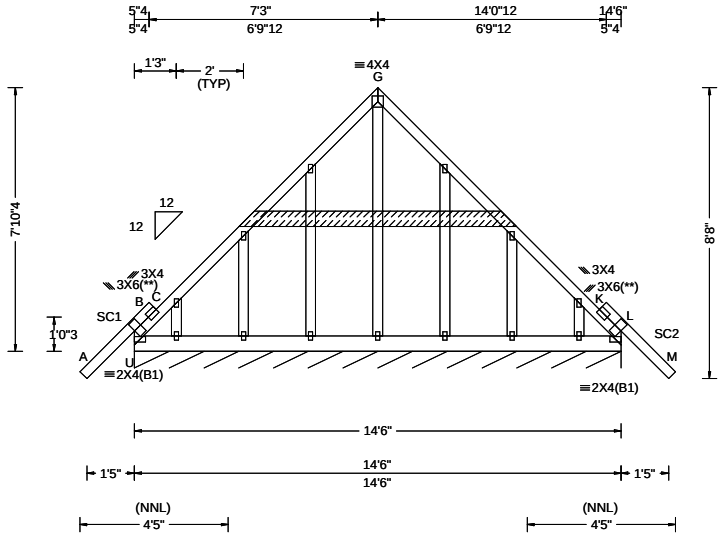
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29776 / GABL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** L1-DG 14'6" Gable	Cust: R 857 JRef:1Y9K8570005 T40 DrwNo: 119.25.1524.23923 SSB / WHK 04/29/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 L 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 L 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 C - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.004 F - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.284
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.025
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.411
	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: 24.02.00C.1213.15
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U*	135	/-	/-	/52	/10	/15

Wind reactions based on MWFRS
U Brg Wid = 174 Min Req = -
Bearing U is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	343	-608	K - L	317	-526

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x6 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes

All plates are 1.5X3 except as noted.

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

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

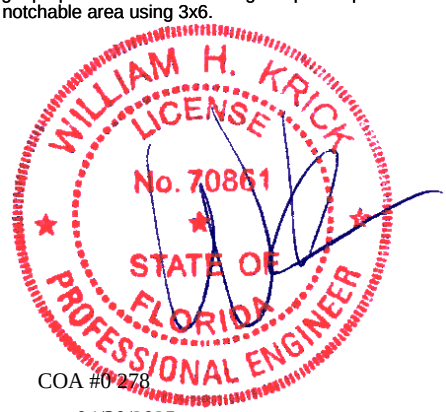
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/984.

Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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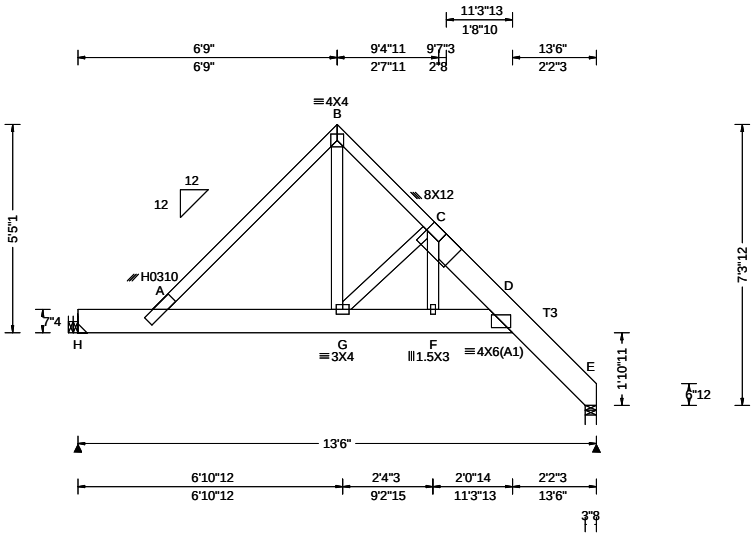
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29763 / COMN FROM: RJL	Ply: 1 Qty: 6	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** M1 13'6" Common	Cust: R 857 JRef:1Y9K8570005 T47 DrwNo: 119.25.1524.25595 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.23 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
HS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.057	G	999	360
VERT(CL): 0.107	G	999	240
HORZ(LL): -0.005	B	-	-
HORZ(TL): 0.010	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.246
Max BC CSI: 0.258
Max Web CSI: 0.222

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	514	/-	/0	/236	/18	/144
E	509	/-	/-	/265	/79	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	102	-667	C - D	95	-626
B - C	133	-631			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	397	0	F - D	650	0
G - F	627	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - G	582	-41

Lumber
Top chord: 2x4 SP #1; T3 2x8 SP SS Dense;
Bot chord: 2x8 SP SS Dense;
Webs: 2x4 SP #3;

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

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

COA #0278
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04/30/2025

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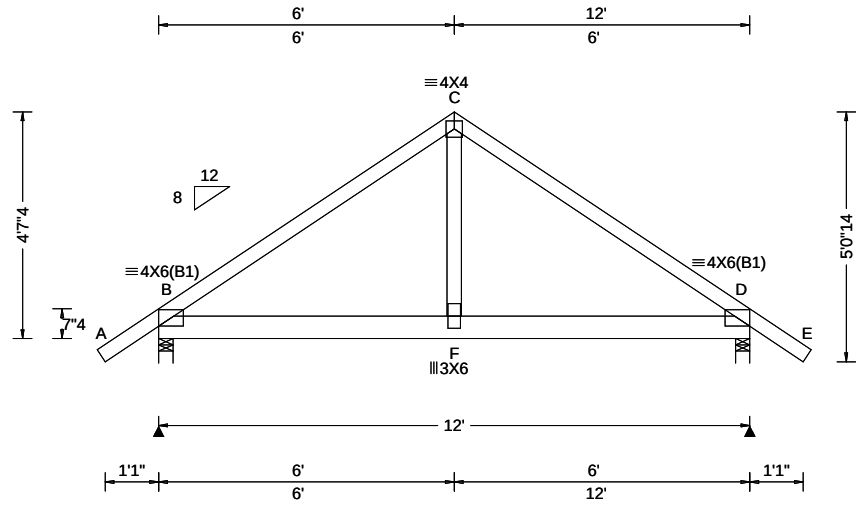
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29767 / COMN FROM: RJL	Ply: 2 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** N1 12' Common Girder	Cust: R 857 JRef:1Y9K8570005 T32 / DrwNo: 119.25.1524.24720 SSB / WHK 04/29/2025

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.38 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.013	F	999	360
VERT(CL): 0.024	F	999	240
HORZ(LL): 0.003	D	-	-
HORZ(TL): 0.005	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.091
Max BC CSI: 0.376
Max Web CSI: 0.328

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2003	/-	/-	/-	/108	/-
D	1700	/-	/-	/-	/125	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Truss)
D Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings B & D 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	49	- 871	C - D	53	- 882

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - F	705	- 34	F - D	705	- 34

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - F	860	- 12

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

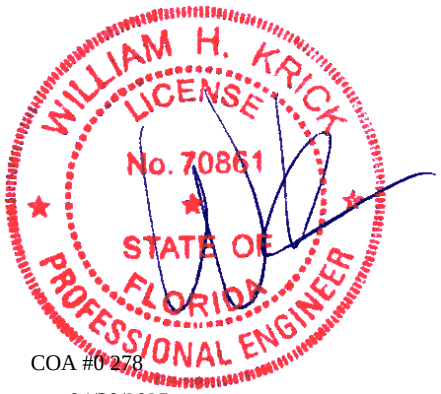
Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

TC: From	28 plf at	-1.25 to	28 plf at	10.27
TC: From	57 plf at	10.27 to	57 plf at	13.25
BC: From	5 plf at	-1.25 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	12.00
BC: From	5 plf at	12.00 to	5 plf at	13.25

BC: 514 lb Conc. Load at 0.27, 2.27, 4.27, 6.27 8.27,10.27

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



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04/30/2025

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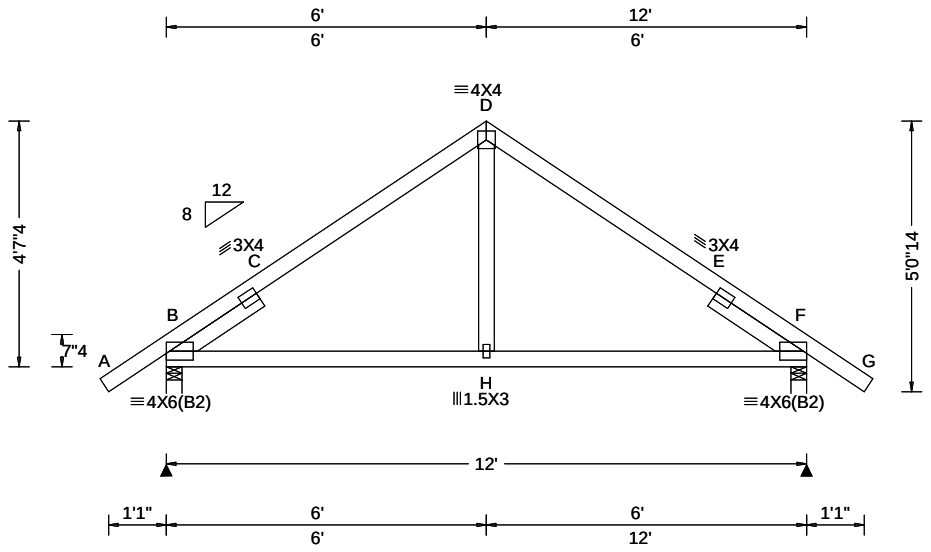
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29765 / COMN FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** N2 12' Common	Cust: R 857 JRef:1Y9K8570005 T38 DrwNo: 119.25.1524.24376 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.38 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.030	C	999	360
VERT(CL): 0.056	C	999	240
HORZ(LL): 0.022	C	-	-
HORZ(TL): 0.042	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.277
Max BC CSI: 0.272
Max Web CSI: 0.161

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	533	/-	/-	/243	/83	/80
F	533	/-	/-	/243	/83	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	413	- 787	D - E	120	- 470
C - D	119	- 470	E - F	412	- 785

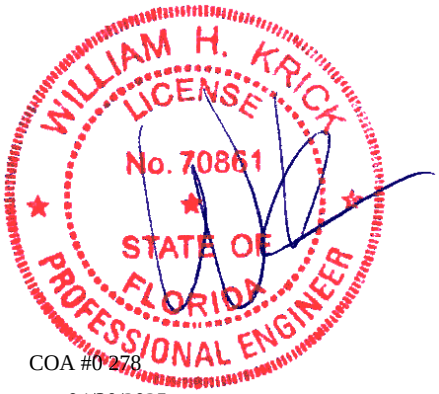
Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'
Rt Slider: 2x4 SP #3; block length = 1.958'

Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

04/30/2025

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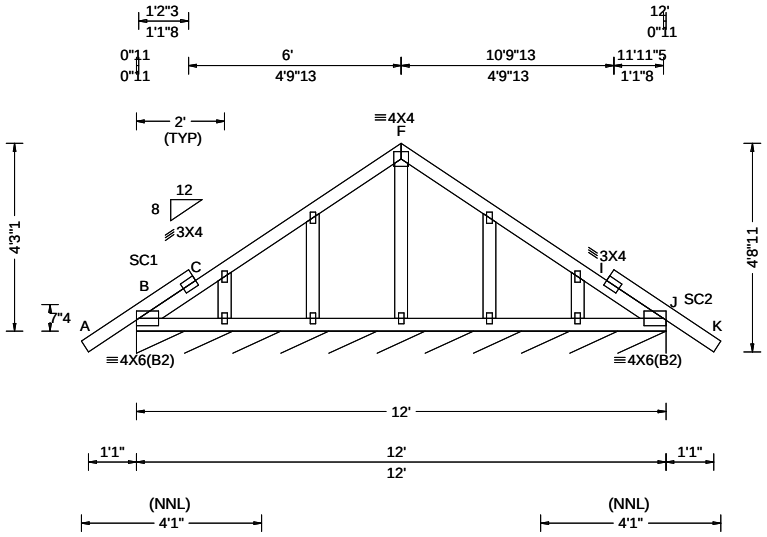
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30012 / GABL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** N3-DG 12' Gable	Cust: R 857 JRef:1Y9K8570005 T30 / DrwNo: 119.25.1524.25580 SSB / WHK 04/29/2025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 J 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 J 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 C - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 E - -
NCBCLL: 10.00	Mean Height: 22.20 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.096
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.038
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.345
	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: 24.02.00C.1213.15
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	100	/-	/-	/42	/20	/7

Wind reactions based on MWFRS
B Brg Wid = 143 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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.

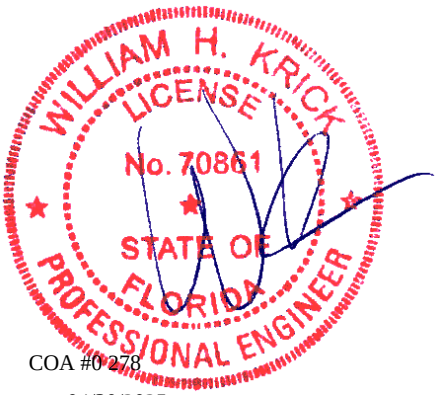
Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/648.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

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



COA #0278

04/30/2025

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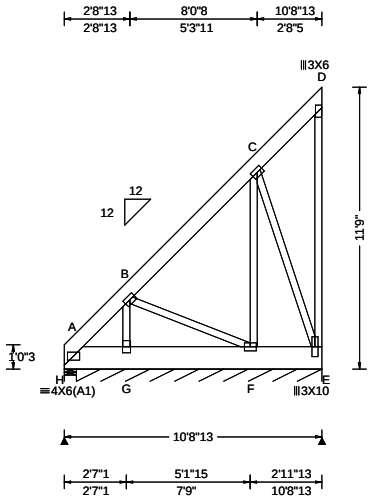
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30651 / MONO FROM: RJL	Ply: 2 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** O1 10'8"13 Mono Girder	Cust: R 857 JRef:1Y9K8570005 T48 / DrwNo: 119.25.1524.24219 SSB / WHK 04/29/2025

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 16.48 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	C	999	360
VERT(CL): 0.003	C	999	240
HORZ(LL): 0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.051
Max BC CSI: 0.020
Max Web CSI: 0.103

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	448	/-	/-	/163	/51	/267
E*	176	/-	/-	/56	/19	/-

Wind reactions based on MWFRS
H Brg Wid = 6.0 Min Req = 1.5 (Truss)
E Brg Wid = 122 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

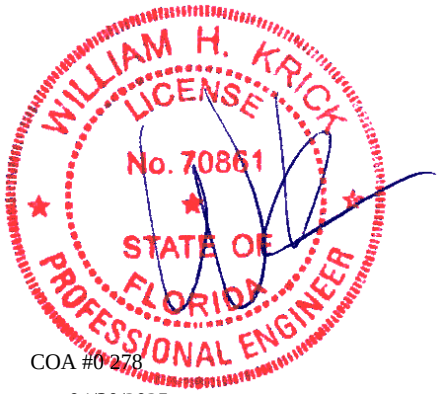
Lumber
Top chord: 2x8 SP SS Dense;
Bot chord: 2x12 SP #2;
Webs: 2x4 SP #3;

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

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 190 plf at 0.00 to 190 plf at 10.73
BC: From 20 plf at 0.00 to 20 plf at 10.73

Plating Notes
All plates are 4X6 except as noted.

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



COA #0 278
04/30/2025
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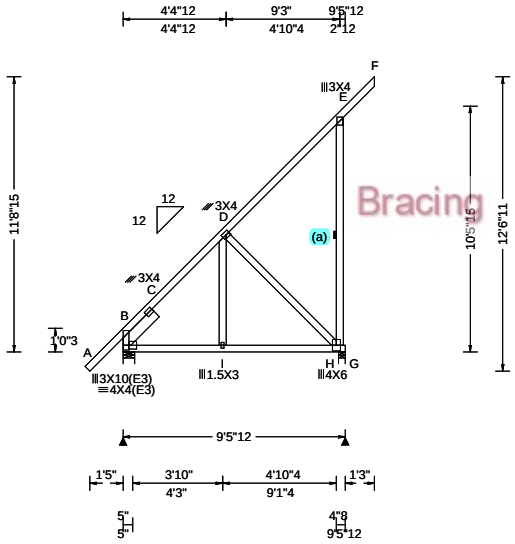
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30647 / MONO FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** O2 9'5"12 Mono	Cust: R 857 JRef:1Y9K8570005 T5 / DrwNo: 119.25.1524.24188 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.66 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	I	999	360
VERT(CL): -0.015	C	999	240
HORZ(LL): -0.004	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.200
Max Web CSI: 0.276

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	476	/-	/-	/209	/-	/209
G	462	/-	/-	/385	/104	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings B & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	203	-549

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Bracing

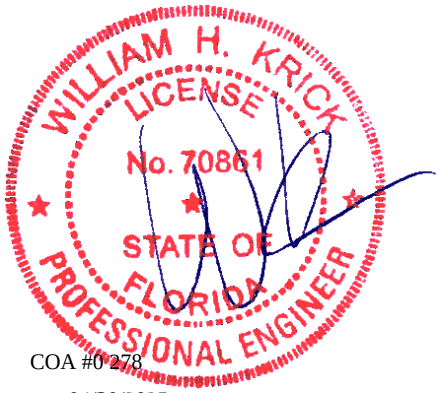
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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

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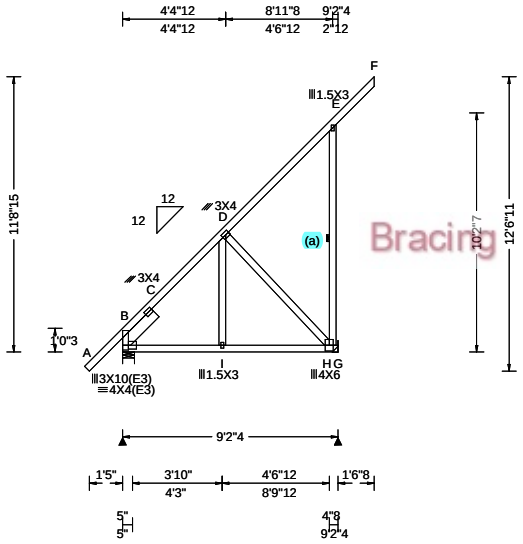
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 30554 / MONO FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** O2s 9'2"4 Mono	Cust: R 857 JRef:1Y9K8570005 T57 / DrwNo: 119.25.1524.25923 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.66 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	I	999	360
VERT(CL): 0.018	C	999	240
HORZ(LL): -0.001	C	-	-
HORZ(TL): 0.019	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.179
Max Web CSI: 0.283

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	462	/-	/-	/202	/-	/209
G	472	/-	/-	/392	/110	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	203	-559

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Hangers / Ties

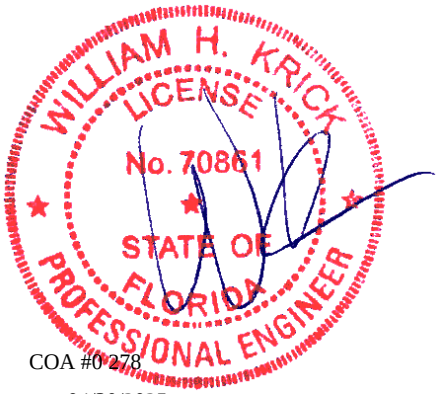
(J) Hanger Support Required, by others

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278
Florida Certificate of Product Approval #FL 1999
04/30/2025

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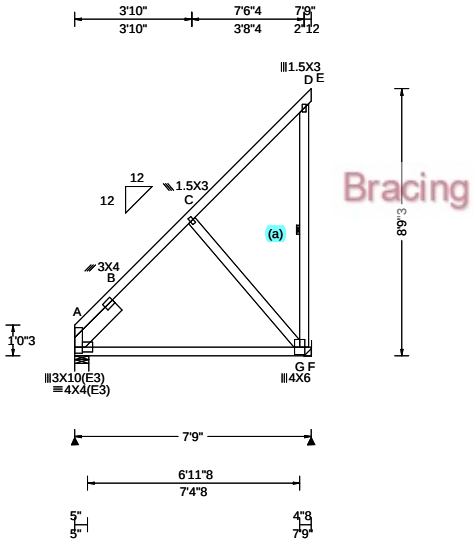
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30059 / MONO FROM: RJL	Ply: 1 Qty: 5	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** Q1 7'9" Mono	Cust: R 857 JRef:1Y9K8570005 T60 / DrwNo: 119.25.1524.25485 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.017	B	999	360
VERT(CL): 0.024	B	999	240
HORZ(LL): 0.020	B	-	-
HORZ(TL): 0.039	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.240
Max BC CSI: 0.502
Max Web CSI: 0.129

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	306	/-	/-	/152	/-	/183
F	313	/-	/-	/266	/112	/-

Wind reactions based on MWFRS
A Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Hangers / Ties

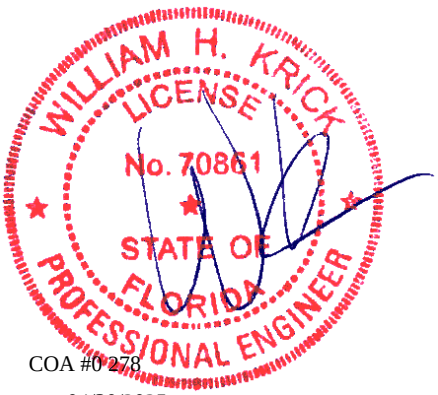
(J) Hanger Support Required, by others

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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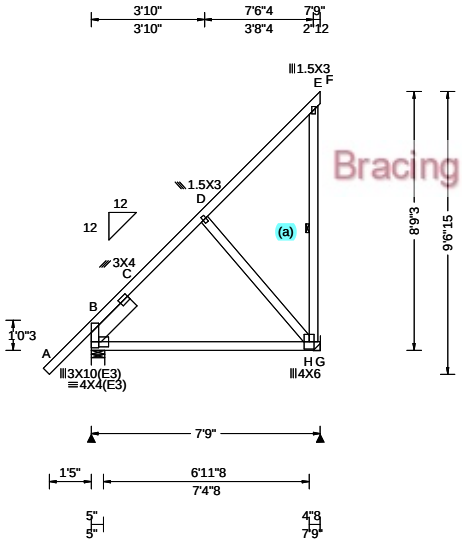
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30057 / MONO FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** Q1a 7'9" Mono	Cust: R 857 JRef:1Y9K8570005 T59 / DrwNo: 119.25.1524.24110 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.014	C	999	360
VERT(CL): 0.019	C	999	240
HORZ(LL): 0.017	C	-	-
HORZ(TL): 0.024	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.184
Max BC CSI: 0.499
Max Web CSI: 0.118

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	415	/-	/-	/178	/-	/214
G	303	/-	/-	/264	/110	/-

Wind reactions based on MWFRS
B Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	369	-584

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP #1; block length = 1.958'

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Hangers / Ties

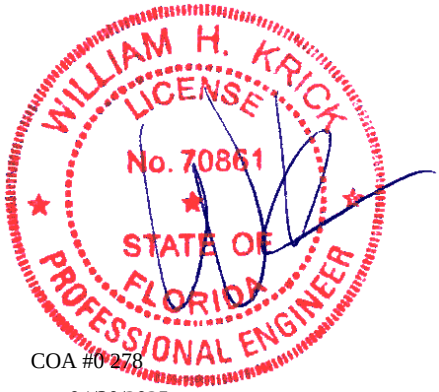
(J) Hanger Support Required, by others

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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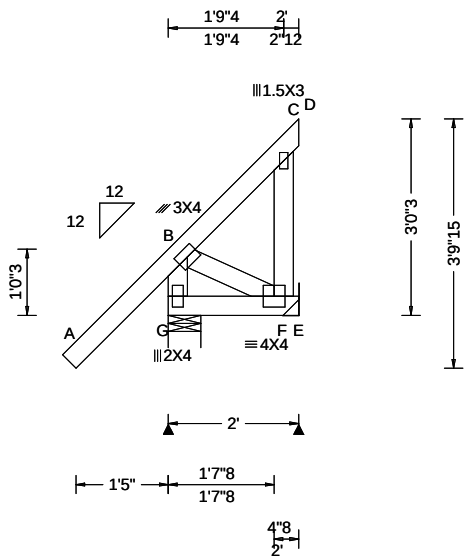
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30053 / MONO FROM: RJL	Ply: 1 Qty: 6	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** R1 2' Mono	Cust: R 857 JRef:1Y9K8570005 T52 DrwNo: 119.25.1524.25328 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.252
Max BC CSI: 0.030
Max Web CSI: 0.073

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	215	/-	/-	/71	/-	/77
E	47	/-	/-	/71	/37	/-

Wind reactions based on MWFRS
G Brg Wid = 6.0 Min Req = 1.5 (Truss)
E Brg Wid = - Min Req = -
Bearing G is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Hangers / Ties

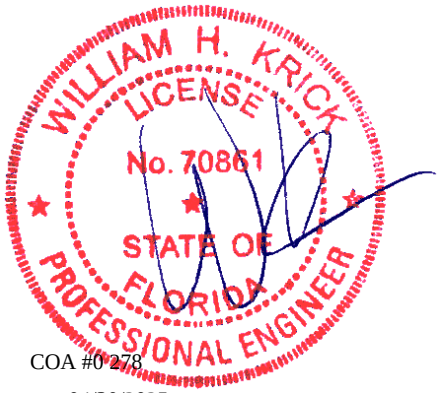
(J) Hanger Support Required, by others

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278
04/30/2025
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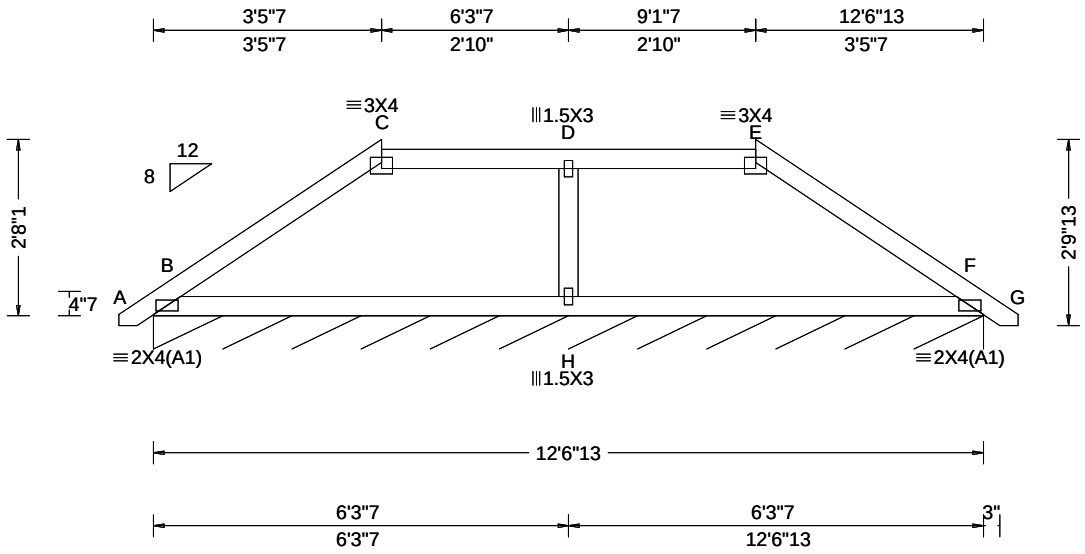
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29985 / COMN FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** PB1 13'8" Common	Cust: R 857 JRef:1Y9K8570005 T50 / DrwNo: 119.25.1524.24719 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	C	999	360
VERT(CL): 0.030	E	999	240
HORZ(LL): -0.002	B	-	-
HORZ(TL): 0.014	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.099
Max BC CSI: 0.269
Max Web CSI: 0.065

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	82	/-	/-	/37	/5	/4

Wind reactions based on MWFRS
B Brg Wid = 150 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

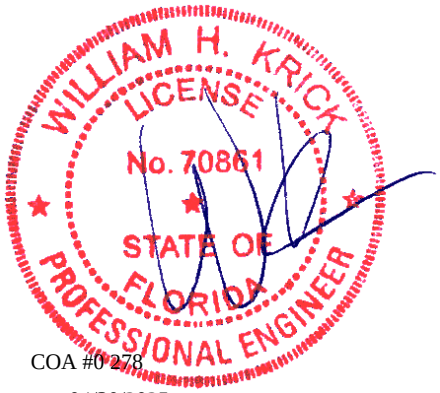
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Refer to DWG PB160220723 for piggyback details.



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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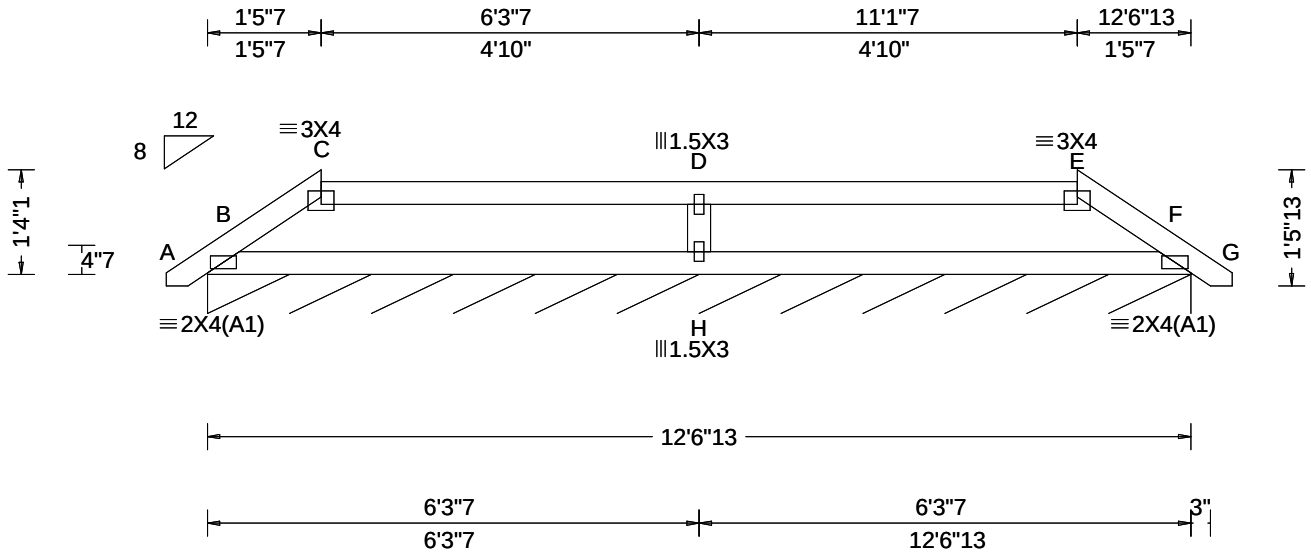
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29988 / COMN FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** PB2 13'8" Common	Cust: R 857 JRef:1Y9K8570005 T49 / DrwNo: 119.25.1524.24126 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 20.78 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	C	999	360
VERT(CL): 0.007	C	999	240
HORZ(LL): -0.002	B	-	-
HORZ(TL): 0.004	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.238
Max BC CSI: 0.262
Max Web CSI: 0.109

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	82	/-	/-	/36	/7	/1

Wind reactions based on MWFRS
B Brg Wid = 150 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

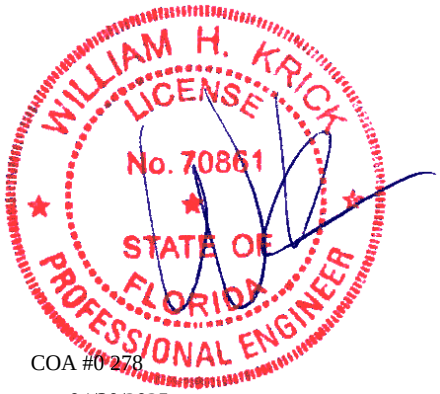
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Refer to DWG PB160220723 for piggyback details.



COA #0278

04/30/2025

Florida Certificate of Product Approval #FL 1999

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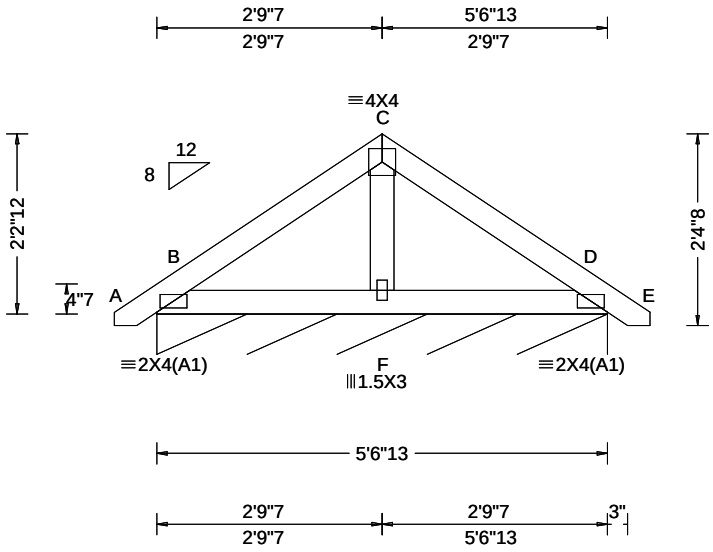
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29990 / COMN FROM: RJL	Ply: 1 Qty: 12	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** PB3 6'8" Common	Cust: R 857 JRef:1Y9K8570005 T3 / DrwNo: 119.25.1524.26033 SSB / WHK 04/29/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 D - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 D - -
NCBCLL: 10.00	Mean Height: 21.23 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.072
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.058
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: No	Max Web CSI: 0.010
	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: 24.02.00C.1213.15
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	88	/-	/-	/40	/-	/6

Wind reactions based on MWFRS
B Brg Wid = 66.8 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Refer to DWG PB160220723 for piggyback details.

COA #0278

04/30/2025

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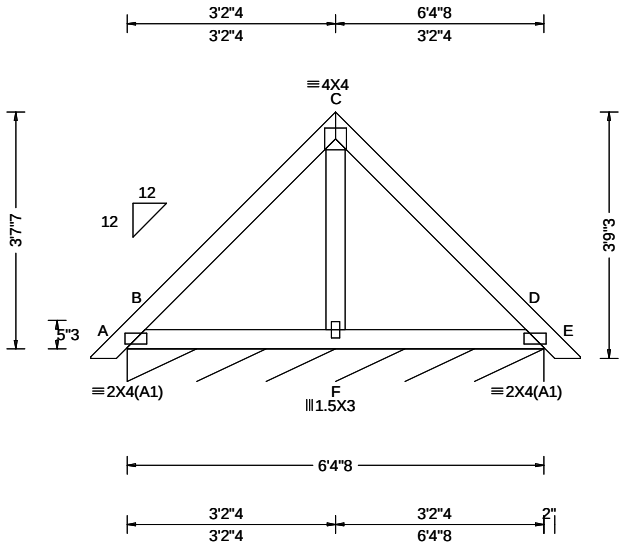
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30585 / COMN FROM: RJL	Ply: 1 Qty: 34	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** PB4 7'6"6 Common	Cust: R 857 JRef:1Y9K8570005 T4 / DrwNo: 119.25.1524.24235 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 23.74 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.084
Max Web CSI: 0.040

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	87	/-	/-	/42	/12	/11

Wind reactions based on MWFRS
B Brg Wid = 76.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

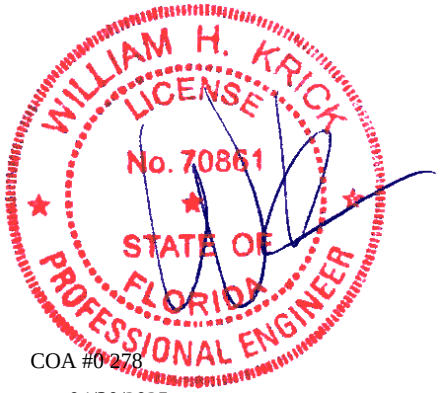
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Wind

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

Wind loading based on both gable and hip roof types.

Refer to DWG PB160220723 for piggyback details.



COA #0 278
04/30/2025
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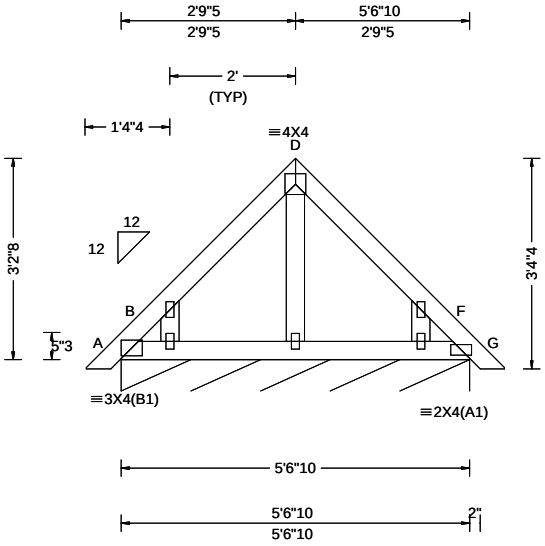
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 30082 / GABL FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** PB5-G 6'8"8 Gable	Cust: R 857 JRef:1Y9K8570005 T51 / DrwNo: 119.25.1524.25235 SSB / WHK 04/29/2025



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B - -
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 C - -
NCBCLL: 10.00	Mean Height: 23.53 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.108
Load Duration: 1.25	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.025
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.103
	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: 24.02.00C.1213.15
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	114	/-	/-	/51	/65	/16

Wind reactions based on MWFRS
B Brg Wid = 66.6 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 1.5X3 except as noted.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

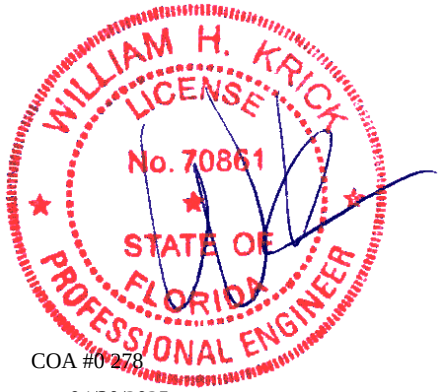
Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Refer to DWG PB160220723 for piggyback details.



COA #0 278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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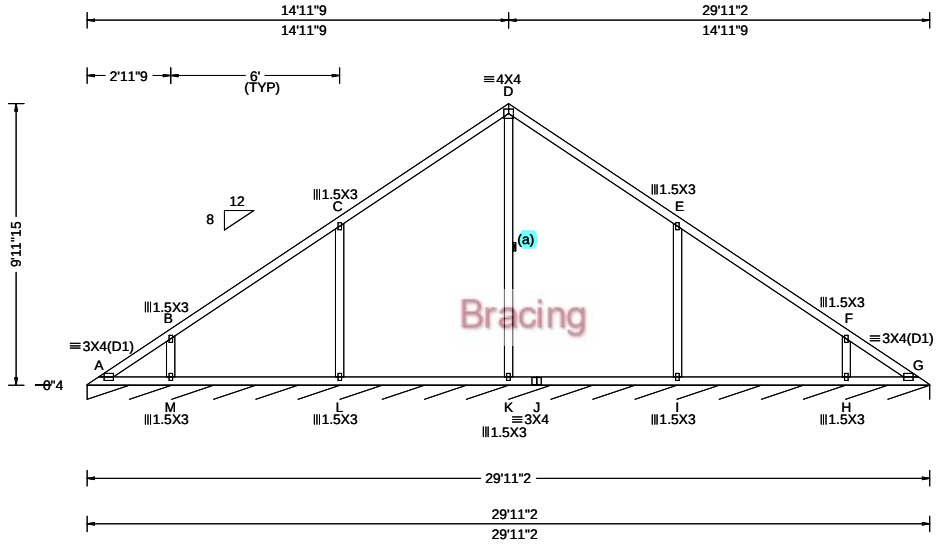
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29692 / VAL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** V1 29'11"2 Valley	Cust: R 857 JRef:1Y9K8570005 T19 / DrwNo: 119.25.1524.25781 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 17.48 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	C	999	360
VERT(CL): 0.004	C	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.386
Max BC CSI: 0.218
Max Web CSI: 0.256

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G*	77	/-	/-	/37	/-	/6

Wind reactions based on MWFRS
G Brg Wid = 359 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

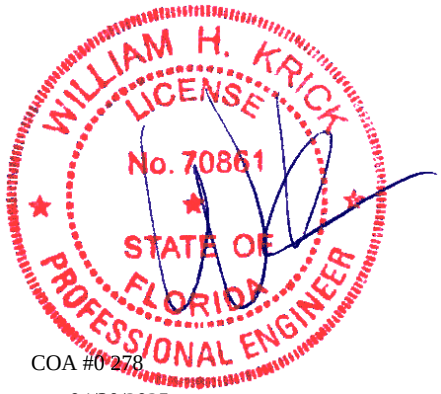
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - L	190	-396	I - E	190	-396

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

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

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

Additional Notes
See DWGS VALTN220723 and VAL180220723 for valley details.



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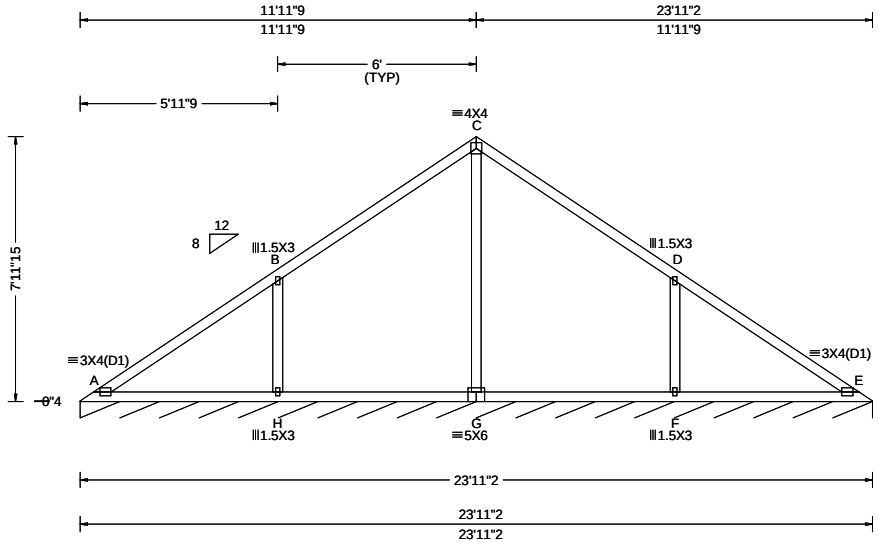
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29694 / VAL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** V2 23'11"2 Valley	Cust: R 857 JRef:1Y9K8570005 T21 / DrwNo: 119.25.1524.25703 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 18.48 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.013	E	999	360
VERT(CL): 0.025	E	999	240
HORZ(LL): 0.005	A	-	-
HORZ(TL): 0.010	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.509
Max BC CSI: 0.272
Max Web CSI: 0.419

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	77	/-	/-	/37	/-	/6

Wind reactions based on MWFRS
E Brg Wid = 287 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.	Webs	Tens.	Comp.
B - H	184	-397	F - D	184	-397

Lumber

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

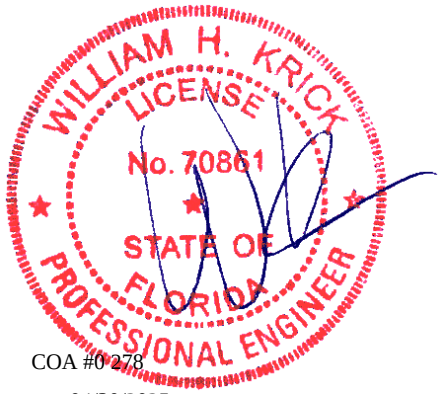
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



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04/30/2025

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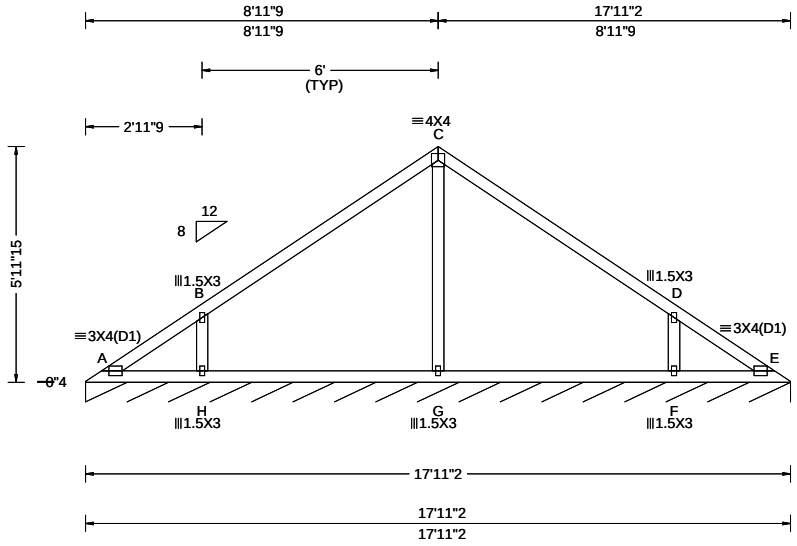
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29696 / VAL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** V3 17'11"2 Valley	Cust: R 857 JRef:1Y9K8570005 T25 / DrwNo: 119.25.1524.24360 SSB / WHK 04/29/2025



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 19.48 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.371
Max BC CSI: 0.221
Max Web CSI: 0.132

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	77	/-	/-	/37	/-	/6

Wind reactions based on MWFRS
E Brg Wid = 215 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

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04/30/2025
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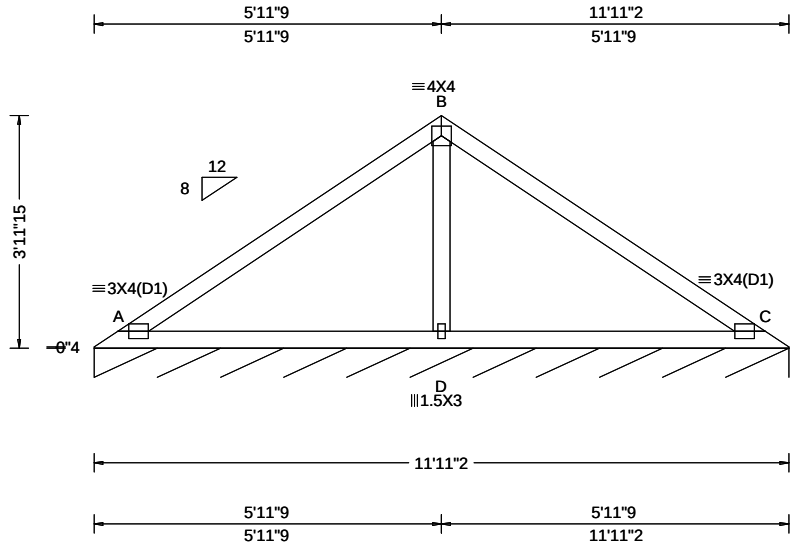
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29698 / VAL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** V4 11'11"2 Valley	Cust: R 857 JRef:1Y9K8570005 T26 / DrwNo: 119.25.1524.24469 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 20.48 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
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): 0.035	A	999	240
HORZ(LL): -0.009	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.384
Max BC CSI: 0.327
Max Web CSI: 0.192

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	77	/-	/-	/36	/-	/6

Wind reactions based on MWFRS
C Brg Wid = 143 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	413	-144	B - C	413	-141

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	256	-645

Lumber

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

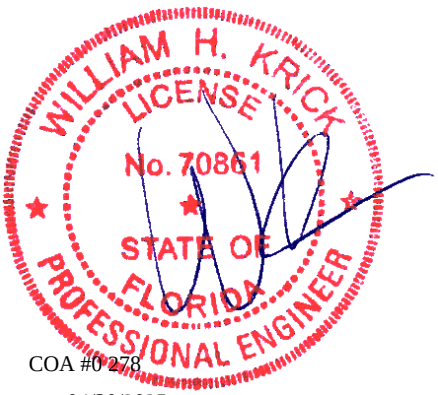
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



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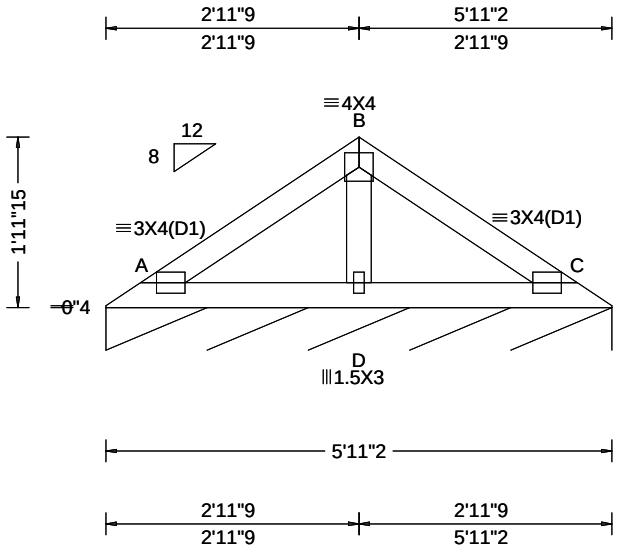
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29700 / VAL FROM: RJL	Ply: 1 Qty: 1	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** V5 5'11"2 Valley	Cust: R 857 JRef:1Y9K8570005 T34 / DrwNo: 119.25.1524.25891 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.48 ft
TCDL: 4.2 psf
BCDL: 5.2 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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	C	999	360
VERT(CL): 0.004	C	999	240
HORZ(LL): -0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.073
Max BC CSI: 0.068
Max Web CSI: 0.042

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	76	/-	/-	/35	/1	/5

Wind reactions based on MWFRS
C Brg Wid = 71.1 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

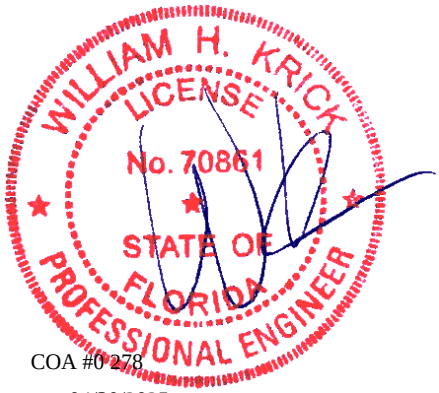
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



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04/30/2025

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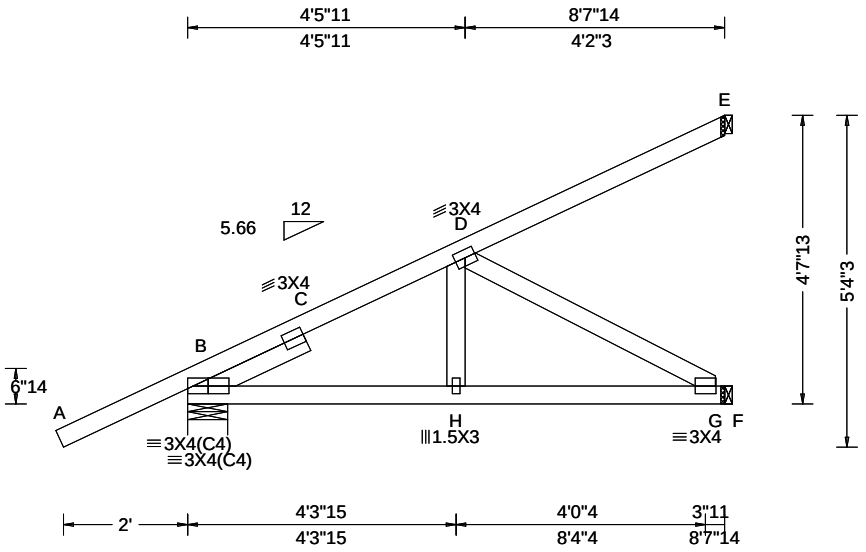
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29675 / HIP_ FROM: RJL	Ply: 1 Qty: 2	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** JA 8'7"14 Hip Jack Girder	Cust: R 857 JRef:1Y9K8570005 T9 / DrwNo: 119.25.1524.25798 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	H	999	360
VERT(CL): 0.014	H	999	240
HORZ(LL): -0.003	C	-	-
HORZ(TL): 0.006	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.306
Max BC CSI: 0.210
Max Web CSI: 0.188

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	292	/-	/-	/-	/19	/-
F	260	/-	/-	/24	/-	/-
E	184	/-	/-	/-	/43	/-

Wind reactions based on MWFRS
B Brg Wid = 7.7 Min Req = 1.5 (Truss)
F Brg Wid = 1.5 Min Req = -
E Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	18	-413	C - D	15	-402

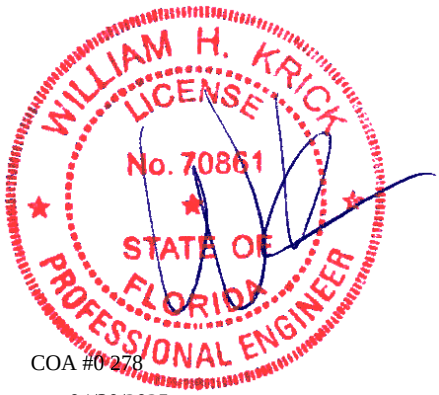
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - G	18	-403

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.958'

Loading
Hipjack supports 6-1-8 setback jacks with no webs.

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



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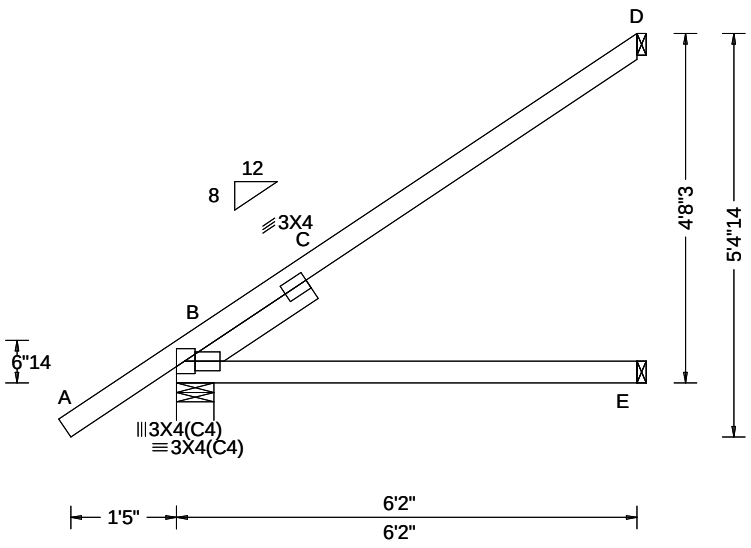
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29677 / EJAC FROM: RJL	Ply: 1 Qty: 16	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** JB 6'2" End Jack	Cust: R 857 JRef:1Y9K8570005 T55 / DrwNo: 119.25.1524.25734 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	0.045 C	-	-
HORZ(TL):	0.083 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.402
Max BC CSI: 0.302
Max Web CSI: 0.213

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	355	/-	/-	/143	/-	/117
E	108	/-	/-	/65	/-	/-
D	143	/-	/-	/90	/61	/-

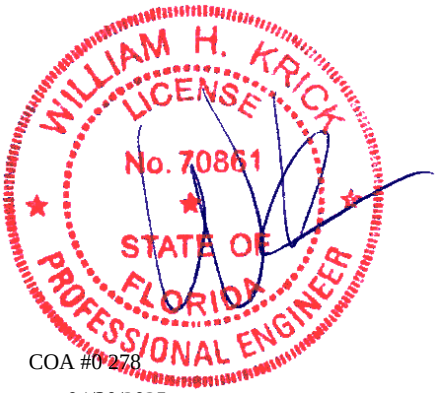
Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	702	- 875

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Lt Slider: 2x4 SP #3; block length = 1.958'

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



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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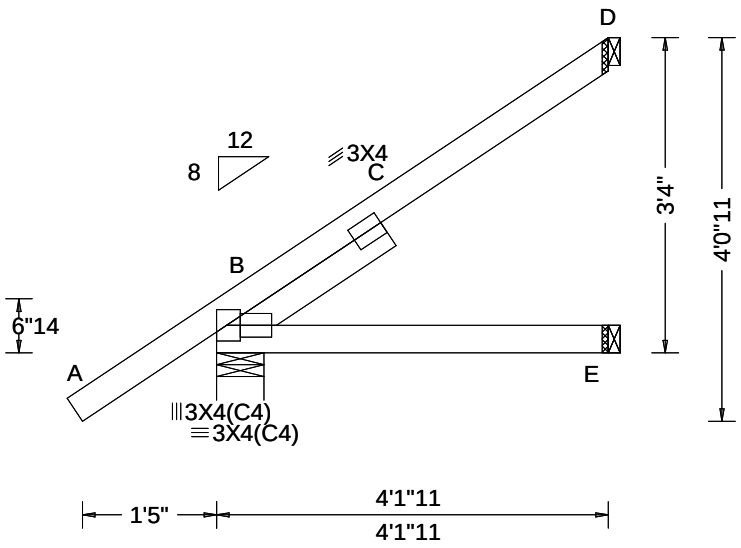
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29679 / JACK FROM: RJL	Ply: 1 Qty: 4	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** JC 4'1"11 Jack	Cust: R 857 JRef:1Y9K8570005 T53 / DrwNo: 119.25.1524.24798 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	0.010 C	-	-
HORZ(TL):	0.020 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.162
Max BC CSI: 0.114
Max Web CSI: 0.092

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	285	/-	/-	/106	/-	/85
E	69	/-	/-	/42	/-	/-
D	86	/-	/-	/60	/40	/-

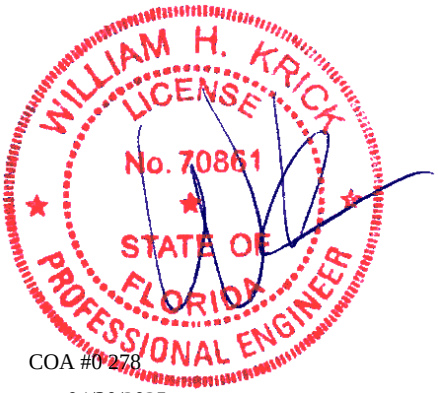
Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	360	-463

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Lt Slider: 2x4 SP #3; block length = 1.958'

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



COA #0278
04/30/2025
Florida Certificate of Product Approval #FL 1999

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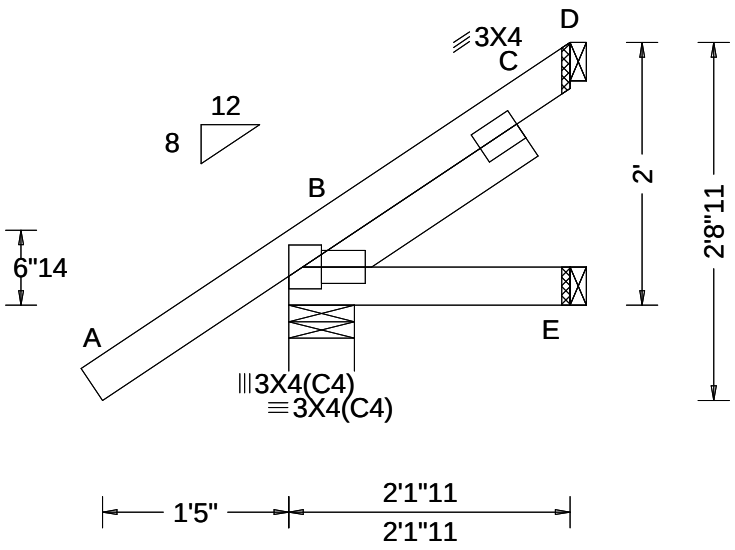
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 29681 / JACK FROM: RJL	Ply: 1 Qty: 4	**Job Number:** B60868a BORCHARDT RESIDENCE **Truss Label:** JD 2'1"11 Jack	Cust: R 857 JRef:1Y9K8570005 T54 / DrwNo: 119.25.1524.25860 SSB / WHK 04/29/2025



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): NA			
VERT(CL): NA			
HORZ(LL): -0.001	D	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.163
Max BC CSI: 0.042
Max Web CSI: 0.047

VIEW Ver: 24.02.00C.1213.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	234	/-	/-	/74	/11	/53
E	30	/-	/-	/18	/-	/-
D	14	/-	/-	/31	/18	/-

Wind reactions based on MWFRS
B Brg Wid = 6.0 Min Req = 1.5 (Truss)
E Brg Wid = 1.5 Min Req = -
D Brg Wid = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

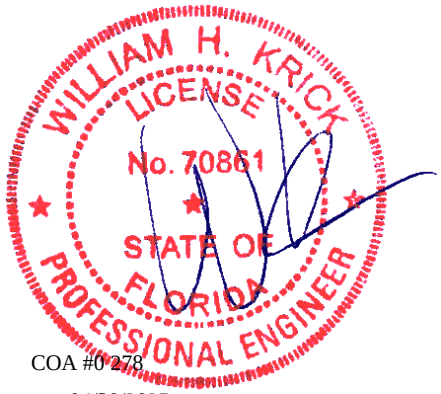
Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Lt Slider: 2x4 SP #3; block length = 1.958'

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

Gable End Wind Bracing Details - Stiffback w/ Diagonal Bracing

Apply single or double stiffback as per Engineer's sealed truss design referencing this detail.

Refer to Engineer's sealed truss design for additional information not provided on this detail.

The required locations for lateral restraint or bracing depicted on this detail are for the permanent lateral transfer and support to transfer load and reduce buckling lengths. Details shall be specified by the Building Designer or other Registered Design Professional. This Detail does 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.

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

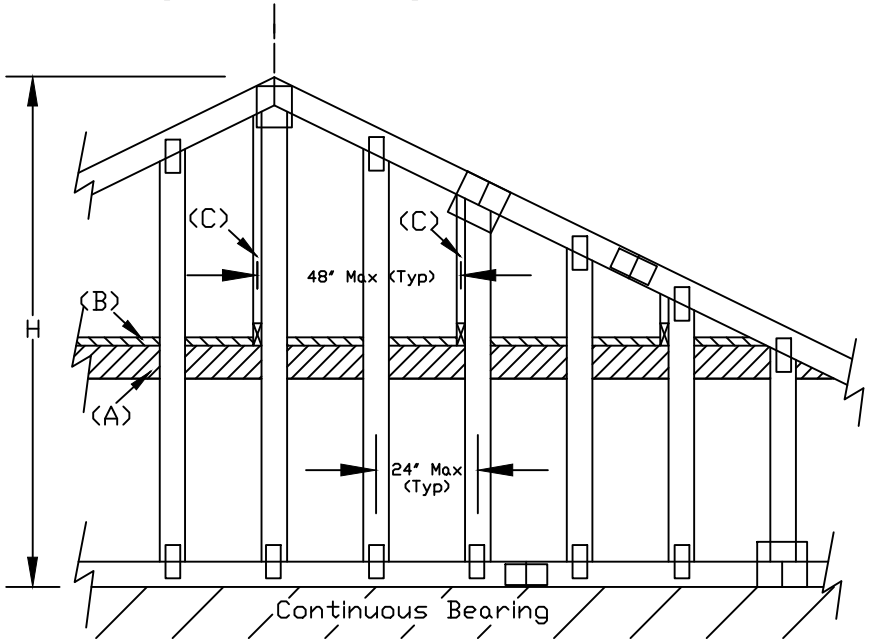
Gable Lateral Bracing Components

(A) Stiffback. Provide connection to each intersecting stud and chord.

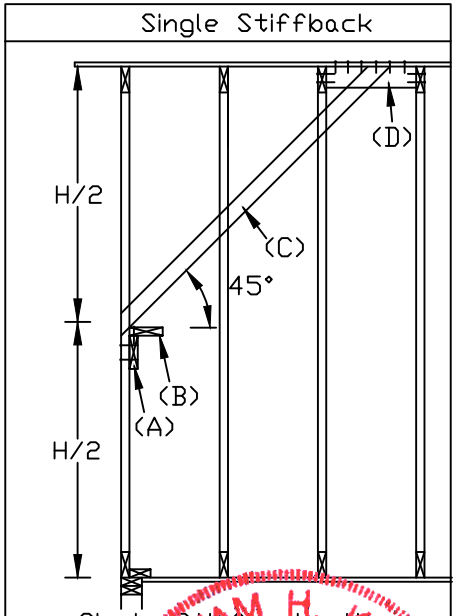
(B) L-reinforcement. Provide connection to narrow edge of stiffback.

(C) Diagonal brace. Provide connection to gable stud at bottom end and to blocking at top end.

(D) Blocking, cut to fit tight between trusses. Attach blocking to trusses at each end and to roof sheathing.

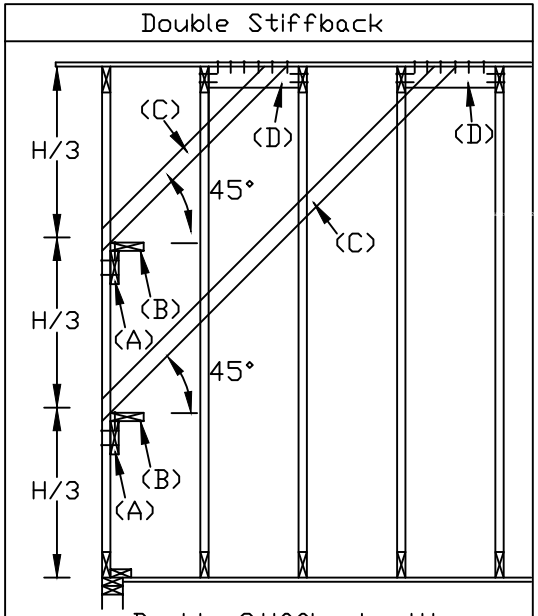


Single Stiffback



Single Stiffback with Diagonal Bracing Spaced at 1/2 Truss Height

Double Stiffback



Double Stiffback with Diagonal Bracing Spaced at 1/3 Truss Height

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WILLIAM H. KRICK
LICENSEE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MAX. TOT. LD.	
	04/30/2025
MAX. SPACING	

COA #0 278
Florida Certificate of Product Approval #FL 1999

REF	GE STIFFBACK
DATE	09/27/2023
DRWG	GBLDIAG220923

Piggyback Detail - ASCE 7-22: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

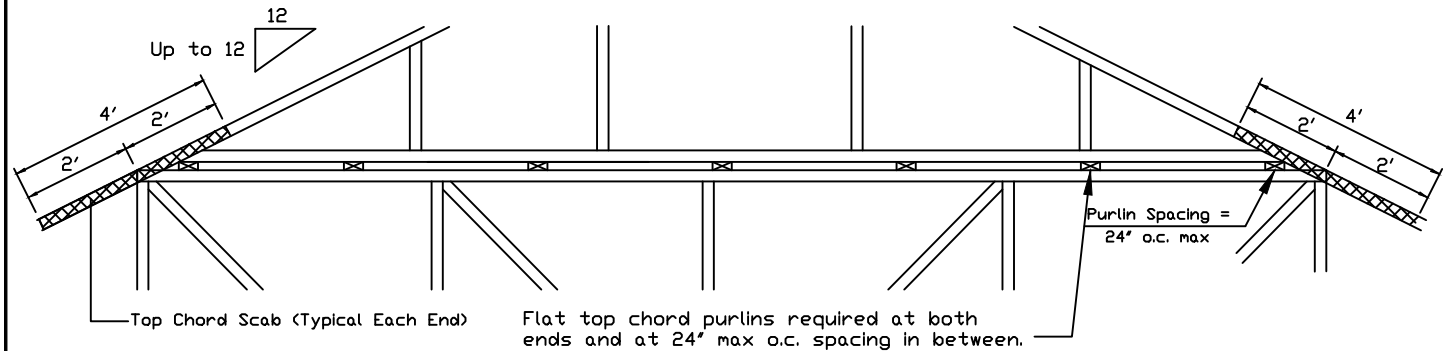
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

Detail A : Purlin Spacing = 24" o.c. or less



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

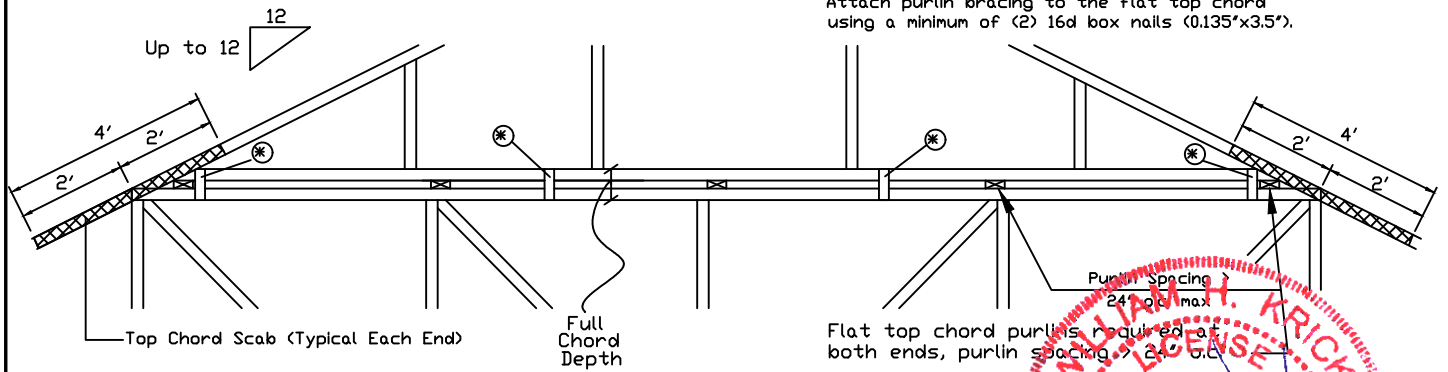
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

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

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

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



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

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

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

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

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

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

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WILLIAM F. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

04/30/2025

COA #0 278
Florida Certificate of Product Approval #FL 1999

REF	PIGGYBACK
DATE	07/03/2023
DRWG	PB160220723
SPACING	24.0"

Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section
(L) = Minimum nailing distance on each side of damaged area (B)
(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2)(L) + (B)

Scab member length (S) must be within the broken panel.

Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.
Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.

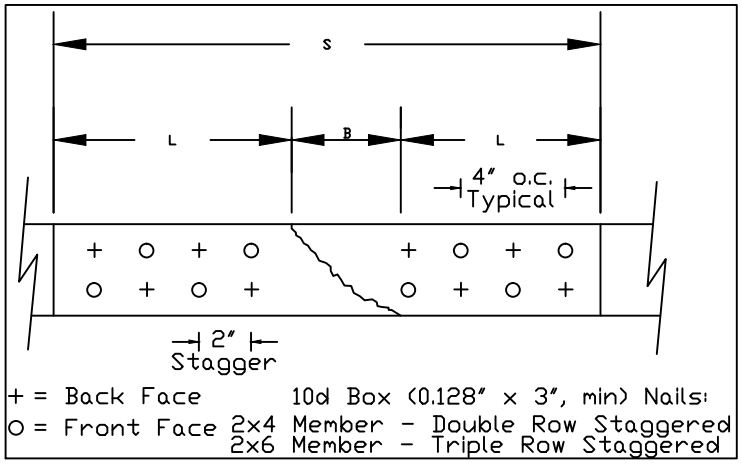
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

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

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

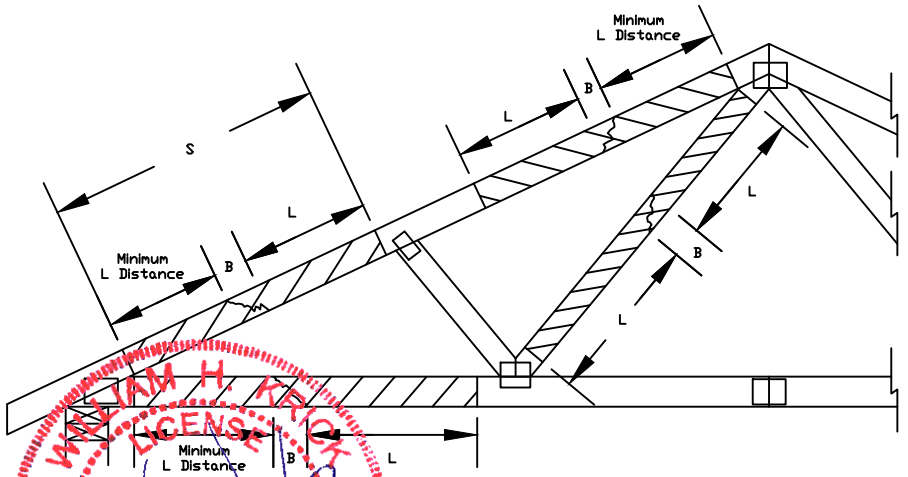
Broken chord may not support any tie-in loads.



Nail Spacing Detail

Load Duration = 0%
Member forces may be increased for Duration of Load

Member	Size	L	Maximum Member Axial Force SPF-C	HF	DF-L	SYP
Web Only	2x4	12"	620#	635#	730#	800#
Web Only	2x4	18"	975#	1055#	1295#	1415#
Web or Chord	2x4	24"	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30"	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42"	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48"	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



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

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

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

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

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

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

WILLIAM H. KRUK
LICENSE
No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

COA #0 278
Florida Certificate of Product Approval #FL1999

04/30/2025

REF	MEMBER REPAIR
DATE	10/01/14
DRWG	REPCHRD1014

SPACING 24.0 MAX

Valley Detail - ASCE 7-22: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

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

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-22 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-22 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

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

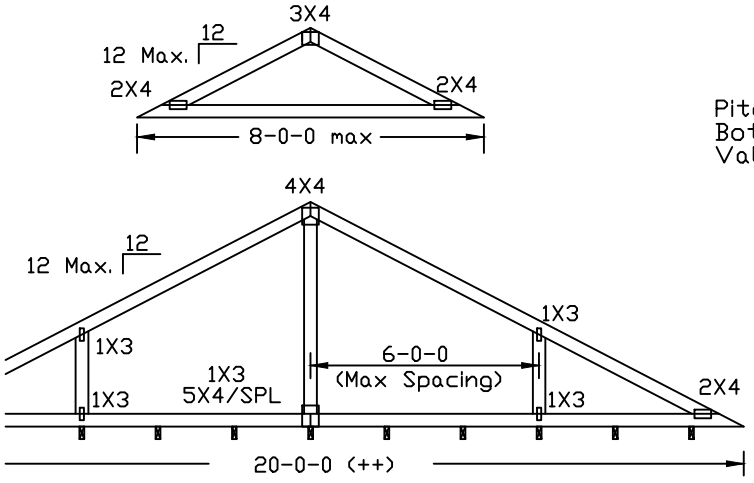
All plates shown are Alpine Wave Plates.

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

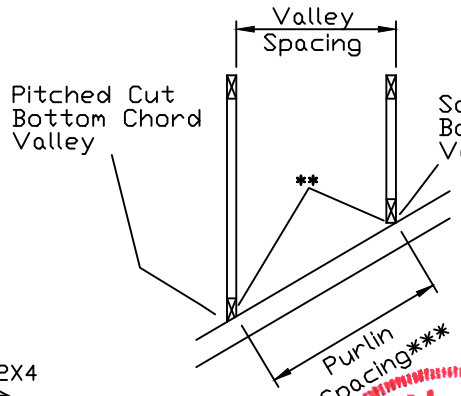
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

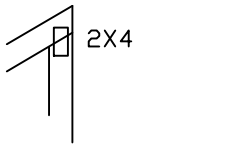
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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

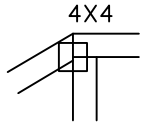


Supporting trusses at 24" o.c. maximum spacing.

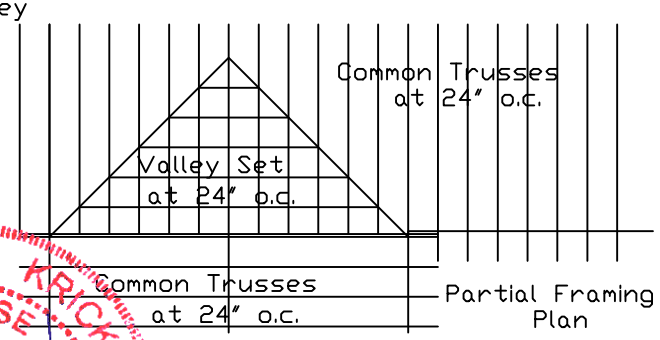




Square Cut Bottom Chord Valley
Stubbed Valley End Detail



Optional Hip Joint Detail



Partial Framing Plan

ALPINE
AN ITW COMPANY
155 Harlem Ave
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Glenview, IL 60025

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

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

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

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VAL180220723

COA #0 278
Florida Certificate of Product Approval #FL 1999

Valley Detail - ASCE 7-22: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

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

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-22, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location:
140 mph for SP (G = 0.55, min.),
125 mph for DF-L (G = 0.50, min.), or
105 mph for HF & SPF (G = 0.42, min.).

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

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

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

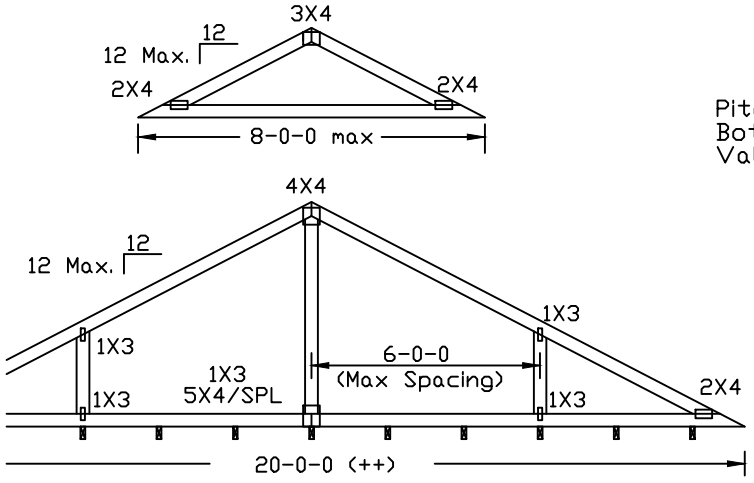
All plates shown are Alpine Wave Plates.

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

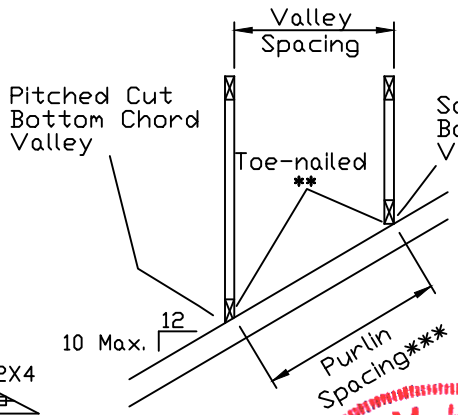
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed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

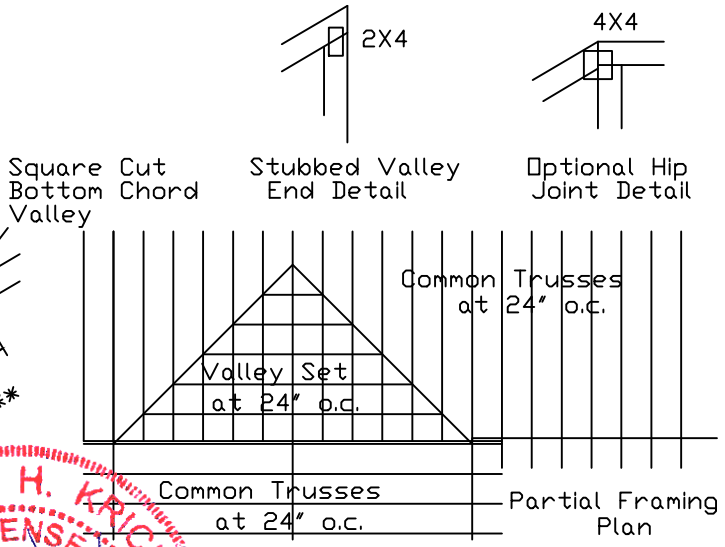
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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



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





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LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VALTN220723

04/30/2025

COA #0 278
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