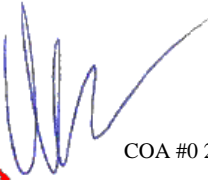


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North Building, 4th Floor  
Glenview, IL 60025  
Phone: (800)755-6001  
www.alpineitw.com



COA #0 278

Florida Certificate of Product Approval #FL 1999  
04/18/2022



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7310
Job Description: Parnell	
Address:	

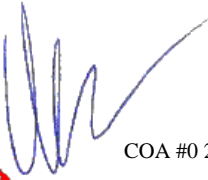
Job Engineering Criteria:
Design Code: FBC 7th Ed. 2020 Res.
IntelliVIEW Version: 21.01.01A through 21.02.01
JRef #: 1XeT2150011
Wind Standard: ASCE 7-16
Wind Speed (mph): 130
Design Loading (psf): 40.00
Building Type: Closed

This package contains general notes pages, 96 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	108.22.1559.07365	A01
3	108.22.1559.06538	A03
5	108.22.1559.06366	A05
7	108.22.1559.07006	A07
9	108.22.1559.05865	A09
11	108.22.1559.05741	A11
13	108.22.1559.06178	A13
15	108.22.1559.06881	A15
17	108.22.1559.07896	A17
19	108.22.1559.07568	A19
21	108.22.1559.05990	A21
23	108.22.1559.07631	A23
25	108.22.1559.07100	A25
27	108.22.1559.06726	A27
29	108.22.1559.06976	A29
31	108.22.1559.05975	B02
33	108.22.1559.07851	B04
35	108.22.1559.06319	B06
37	108.22.1559.07351	B08
39	108.22.1559.07164	B10
41	108.22.1559.05944	B12
43	108.22.1609.01940	B14
45	108.22.1559.07710	B16
47	108.22.1559.06521	B18
49	108.22.1559.06693	B20

Item	Drawing Number	Truss
2	108.22.1559.06194	A02
4	108.22.1559.07209	A04
6	108.22.1559.06944	A06
8	108.22.1559.07146	A08
10	108.22.1559.05897	A10
12	108.22.1559.06085	A12
14	108.22.1559.06740	A14
16	108.22.1559.07882	A16
18	108.22.1559.05945	A18
20	108.22.1559.06805	A20
22	108.22.1559.07554	A22
24	108.22.1559.07647	A24
26	108.22.1559.07459	A26
28	108.22.1559.06257	A28
30	108.22.1559.07304	B01
32	108.22.1559.07053	B03
34	108.22.1559.07852	B05
36	108.22.1559.06631	B07
38	108.22.1559.06615	B09
40	108.22.1559.05740	B11
42	108.22.1608.59010	B13
44	108.22.1559.06475	B15
46	108.22.1559.05555	B17
48	108.22.1559.07522	B19
50	108.22.1559.07038	B21

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Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 22-7310
Job Description: Parnell	
Address:	

Item	Drawing Number	Truss
51	108.22.1559.06287	B22
53	108.22.1559.06334	B24
55	108.22.1559.07444	B26
57	108.22.1559.05553	B28
59	108.22.1559.06898	B30
61	108.22.1559.07178	C01
63	108.22.1559.06897	C03
65	108.22.1559.05584	D01
67	108.22.1559.07101	D03
69	108.22.1559.06413	E01
71	108.22.1559.06443	J01
73	108.22.1559.07334	J02
75	108.22.1559.06225	J03
77	108.22.1559.06975	J04
79	108.22.1559.07725	J05
81	108.22.1559.06084	J06
83	108.22.1559.07693	J08
85	108.22.1559.07256	J10
87	108.22.1559.06397	J12
89	108.22.1559.06882	J14
91	108.22.1559.05554	J16
93	108.22.1559.07398	J18
95	108.22.1559.07163	PB01
97	A14015ENC160118	
99	BRCLBSUB0119	
101	GBLLETIN0118	

Item	Drawing Number	Truss
52	108.22.1559.07537	B23
54	108.22.1559.07756	B25
56	108.22.1559.06490	B27
58	108.22.1559.07772	B29
60	108.22.1559.06523	B31
62	108.22.1559.06662	C02
64	108.22.1559.06584	C04
66	108.22.1559.07741	D02
68	108.22.1559.07646	D04
70	108.22.1559.07600	E02
72	108.22.1559.06272	J01HJ
74	108.22.1559.07491	J02HJ
76	108.22.1559.06694	J03HJ
78	108.22.1559.06162	J04HJ
80	108.22.1559.06600	J05HJ
82	108.22.1559.06459	J07
84	108.22.1559.06772	J09
86	108.22.1559.05742	J11
88	108.22.1559.06147	J13
90	108.22.1559.07460	J15
92	108.22.1559.06804	J17
94	108.22.1559.07818	J19
96	108.22.1559.05929	PB02
98	A14030ENC160118	
100	DEFLCAMB1014	
102	PB160160118	

## **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](http://www.icc-es.org).

### **Fire Retardant Treated Lumber:**

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

## **General Notes** (continued)

### **Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

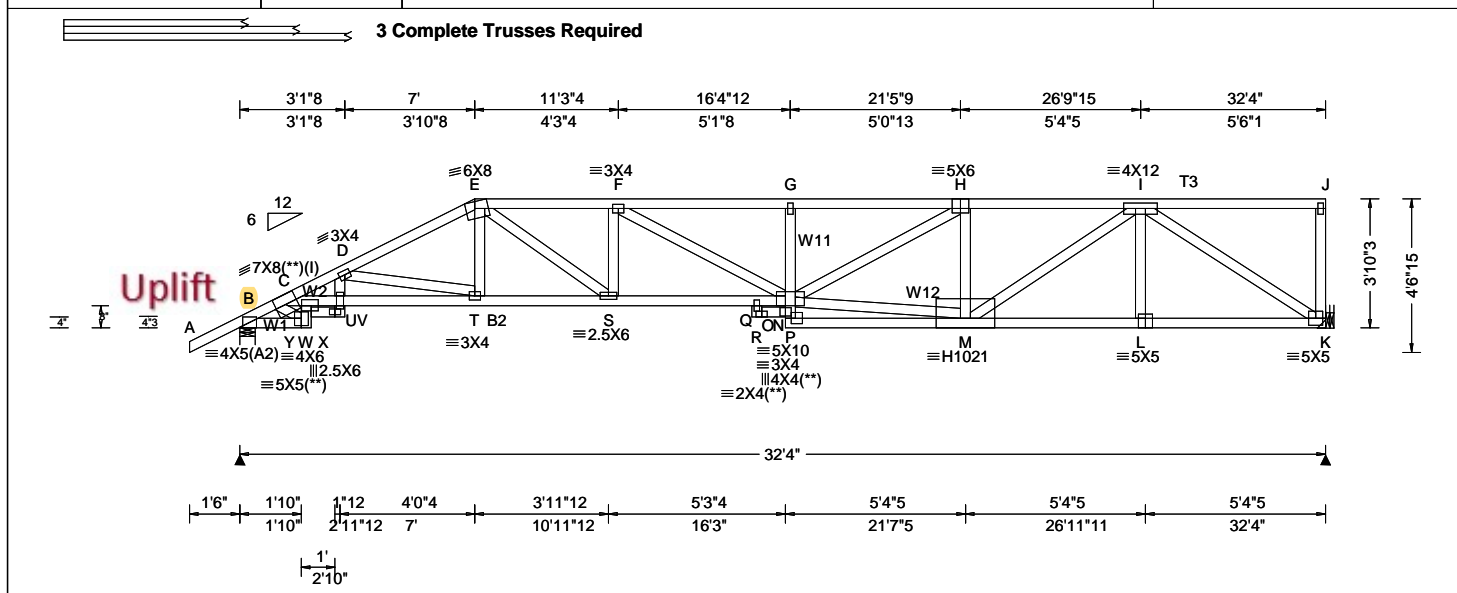
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

**References:**

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; [www.awc.org](http://www.awc.org).
2. ICC: International Code Council; [www.iccsafe.org](http://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](http://www.alpineitw.com).
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; [www.tpinst.org](http://www.tpinst.org).
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcacomponents.com](http://www.sbcacomponents.com).

SEQN: 88445 /	HIPM	Ply: 3	Job Number: 22-7310	Cust: R 215 JRRef: 1XeT2150011 T84 /
FROM:		Qty: 1	Parnell	DrwNo: 108.22.1559.07365
			Truss Label: A01	AK / FV 04/18/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.23 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.207 G 999 240 VERT(CL): 0.413 G 934 180 HORZ(LL): 0.087 K - - HORZ(TL): 0.174 K - - Creep Factor: 2.0 Max TC CSI: 0.329 Max BC CSI: 0.535 Max Web CSI: 0.575 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 3085 - / - / - / 609 - / - K 3186 - / - / - / 492 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) K 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. Chords Tens. Comp. B - C 326 - 1720 F - G 562 - 3118 C - D 623 - 3279 G - H 554 - 3076 D - E 470 - 2421 H - I 363 - 2202 E - F 520 - 2727

**Lumber**  
Top chord: 2x4 SP M-31; T3 2x4 SP #2;  
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
Webs: 2x4 SP #3; W1,W2,W11 2x4 SP M-31;  
W12 2x4 SP #2;

**Nailnote**  
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
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 62 plf at -1.50 to 62 plf at 7.00  
TC: From 31 plf at 7.00 to 31 plf at 32.33  
BC: From 20 plf at 0.00 to 20 plf at 7.03  
BC: From 10 plf at 7.03 to 10 plf at 32.33  
TC: 260 lb Conc. Load at 7.03  
TC: 110 lb Conc. Load at 9.06,11.06,13.06,15.06  
TC: 188 lb Conc. Load at 17.06,19.06,21.06,29.06  
31.06  
TC: 181 lb Conc. Load at 23.06,25.06,27.06  
BC: 639 lb Conc. Load at 7.03  
BC: 169 lb Conc. Load at 9.06,11.06,13.06,15.06  
BC: 129 lb Conc. Load at 17.06,19.06,21.06,29.06  
31.06  
BC: 139 lb Conc. Load at 23.06,25.06,27.06

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

**Plating Notes**  
All plates are 2X4 except as noted.  
(++) - This plate works for both joints covered.  
(\*\*) 4 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

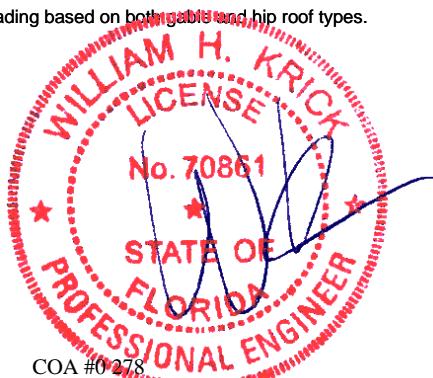
**Wind**  
Wind loads and reactions based on MWFRS.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Y	1378 - 259	S - Q	2758 - 528
C - W	2809 - 533	Q - H	2563 - 485
W - U	2773 - 526	M - L	1436 - 227
U - T	2938 - 559	L - K	1436 - 227
T - S	2156 - 416		

Chords	Tens.Comp.	Chords	Tens. Comp.
C - Y	285 - 1521	F - N	443 - 38
W - X	1018 - 185	N - H	964 - 210
X - Y	1081 - 199	N - M	1931 - 317
U - D	425 - 62	H - M	171 - 674
D - T	147 - 801	M - I	928 - 164
E - T	470 - 56	I - K	269 - 1698
E - S	715 - 129		

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).



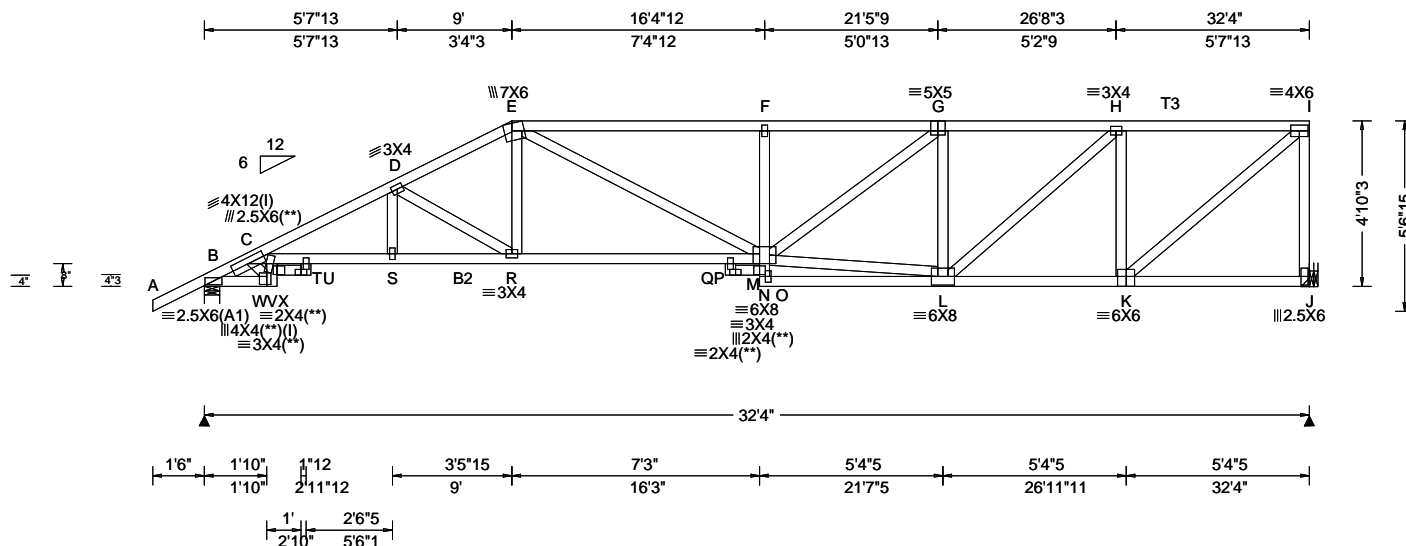
COA #0278

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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 bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.  
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 88463 / FROM:	HIPM Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A02	Cust: R 215 JRef: 1XeT2150011 T52 / DrwNo: 108.22.1559.06194 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.23 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.209 U 999 240 VERT(CL): 0.426 U 907 180 HORZ(LL): 0.104 K - - HORZ(TL): 0.211 K - - Creep Factor: 2.0 Max TC CSI: 0.536 Max BC CSI: 0.725 Max Web CSI: 0.839 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1434 - / - / - / 861 / 255 / 180 J 1323 - / - / - / 680 / 257 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.7 (Truss) J 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. Chords Tens. Comp. B - C 785 -2020 F - G 1457 -2844 C - D 1405 -3256 G - H 1072 -2098 D - E 1180 -2531 H - I 697 -1338 E - F 1465 -2861

#### Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;  
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 2X4 except as noted.

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

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

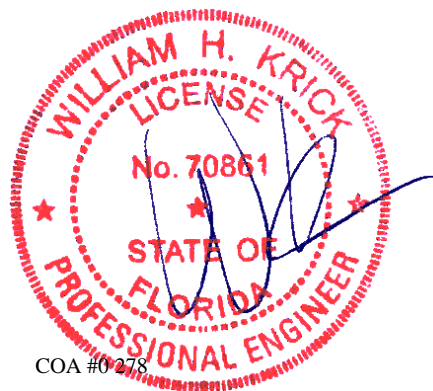
#### Wind

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

Right end vertical 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

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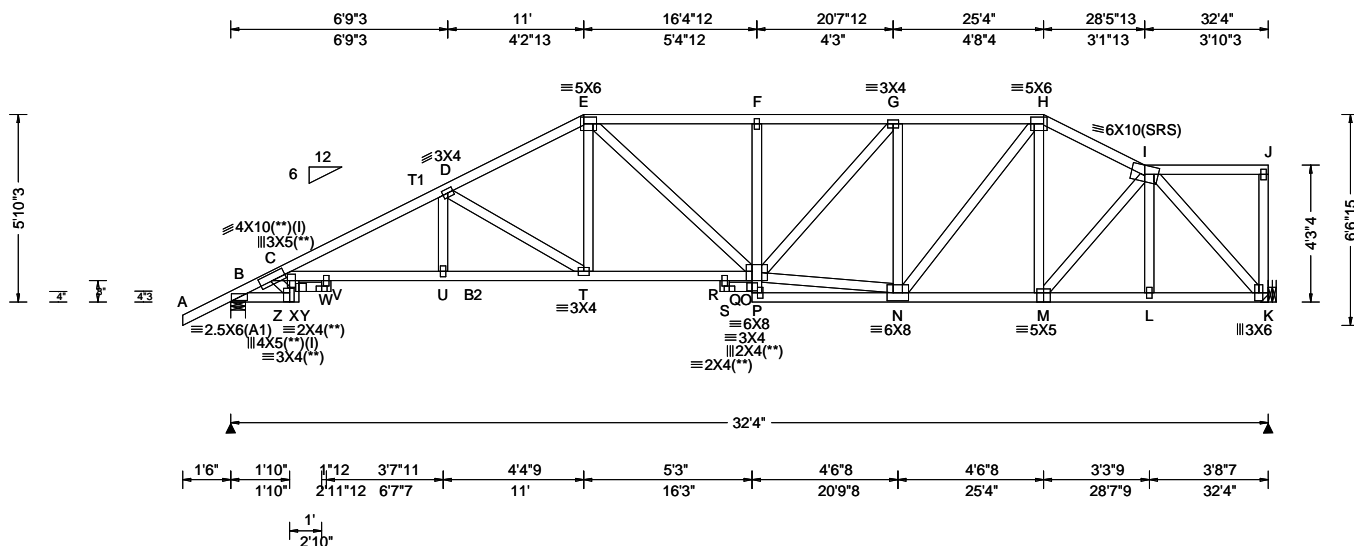
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 88468 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A03	Cust: R 215 JRef: 1XeT2150011 T75 / DrwNo: 108.22.1559.06538 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.23 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.263 W 999 240 VERT(CL): 0.535 W 721 180 HORZ(LL): 0.118 K - - HORZ(TL): 0.240 K - - Creep Factor: 2.0 Max TC CSI: 0.605 Max BC CSI: 0.733 Max Web CSI: 0.882 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1434 - / - / /871 /255 /160 K 1323 - / - / /670 /248 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.7 (Truss) K 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. Chords Tens. Comp. B - C 723 -2006 F - G 1111 -2232 C - D 1196 -3054 G - H 898 -1781 D - E 1008 -2260 H - I 723 -1520 E - F 1115 -2241

#### Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### 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.

Right end vertical 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 #0218

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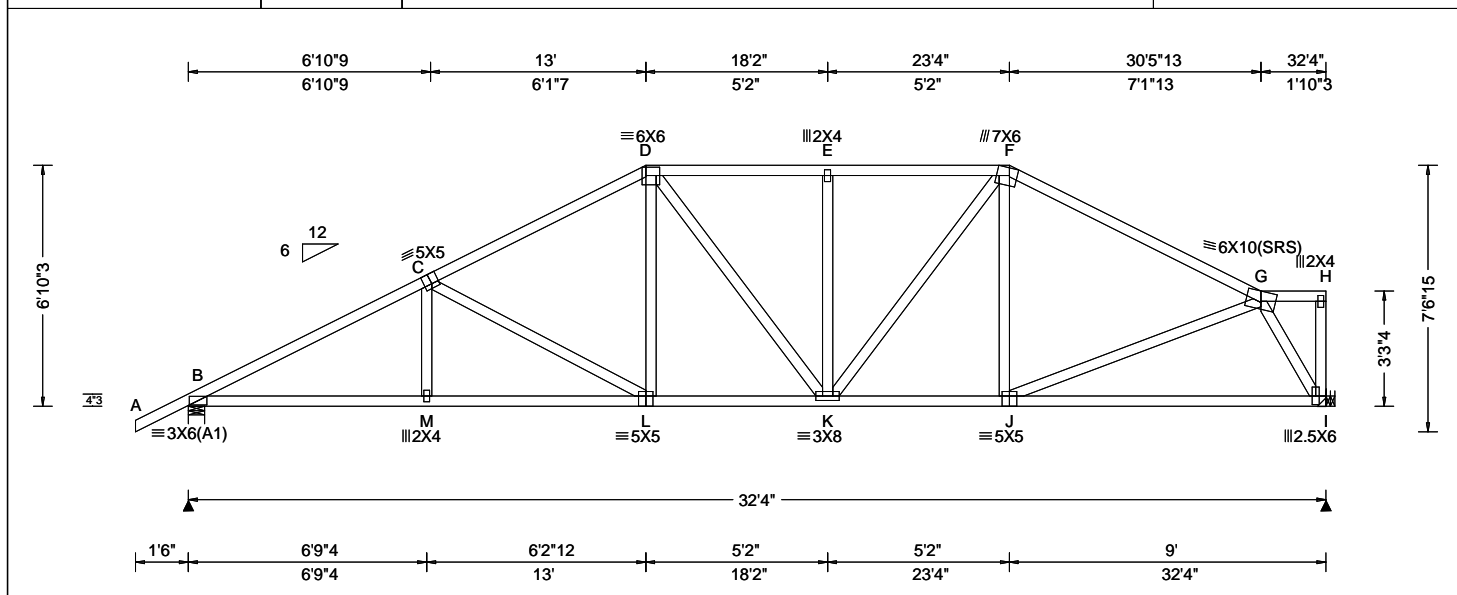
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62019 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A04	Cust: R 215 JRef: 1XeT2150011 T67 / DrwNo: 108.22.1559.07209 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.23 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 L 999 240 VERT(CL): 0.190 L 999 180 HORZ(LL): 0.039 I - - HORZ(TL): 0.080 I - - Creep Factor: 2.0 Max TC CSI: 0.645 Max BC CSI: 0.770 Max Web CSI: 0.563 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1434 - / - / - / 877 / 256 / 182 I 1323 - / - / - / 704 / 240 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.7 (Truss) I 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. Chords Tens. Comp. B - C 800 -2417 E - F 779 -1617 C - D 762 -1865 F - G 650 -1620 D - E 779 -1617

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0218

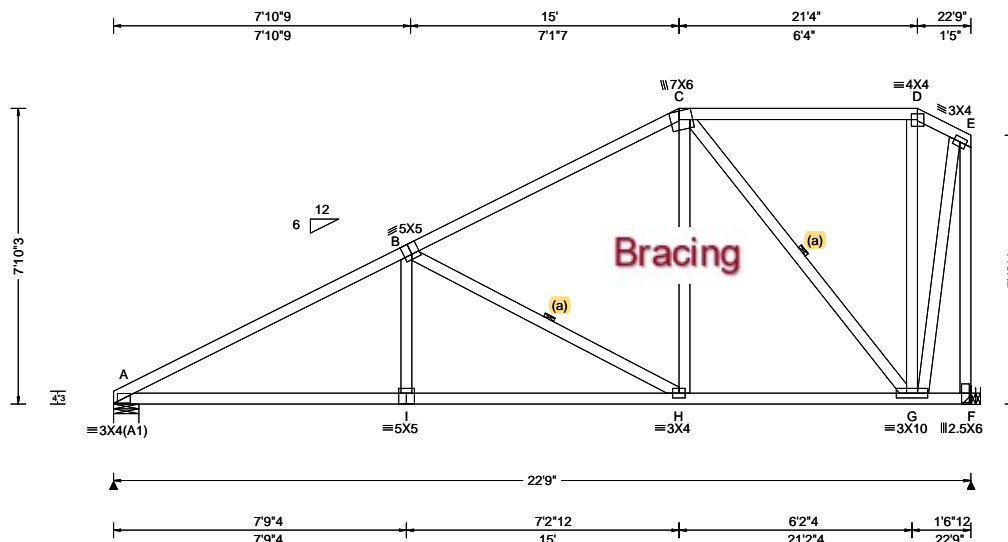
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SEQN: 62022 / FROM:	HIPS Qty: 1	Job Number: 22-7310 Parnell Truss Label: A05	Cust: R 215 JRef: 1XeT2150011 T45 / DrwNo: 108.22.1559.06366 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.045 I 999 240 VERT(CL): 0.093 I 999 180 HORZ(LL): 0.017 G - - HORZ(TL): 0.035 G - - Creep Factor: 2.0 Max TC CSI: 0.650 Max BC CSI: 0.627 Max Web CSI: 0.878 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 940 - / - /596 /36 /193 F 929 - / - /539 /121 - Wind reactions based on MWFRS A Brg Wid = 8.0 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 413 - 1541 B - C 323 - 849

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

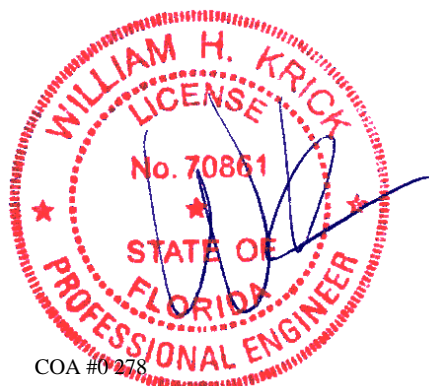
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### 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.



COA #0278

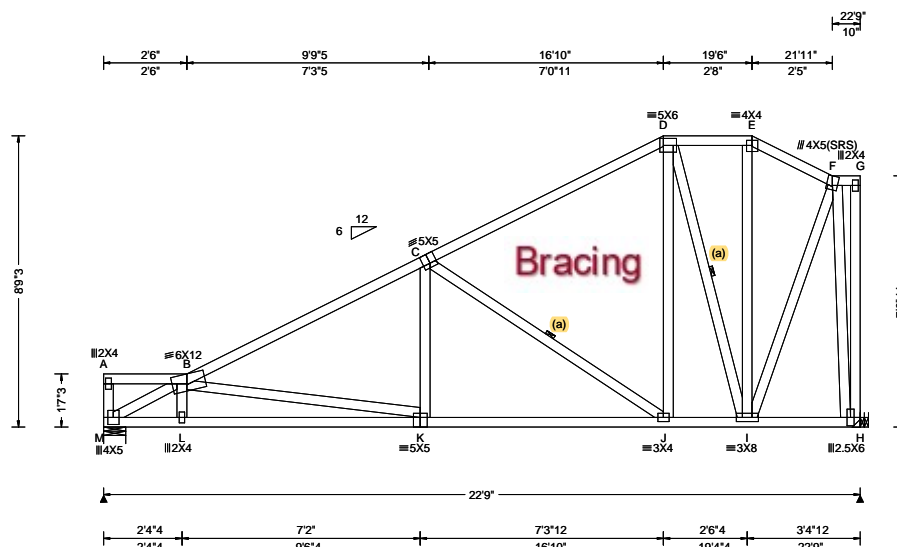
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62401 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A06	Cust: R 215 JRef: 1XeT2150011 T80 / DrwNo: 108.22.1559.06944 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.18 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.054 K 999 240 VERT(CL): 0.111 K 999 180 HORZ(LL): 0.020 H - - HORZ(TL): 0.042 H - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.655 Max Web CSI: 0.905  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 937 - / - / /557 /18 /185 H 937 - / - / /556 /95 - /- Wind reactions based on MWFRS M Brg Wid = 8.0 Min Req = 1.5 (Truss) H Brg Wid = - Min Req = - Bearing M is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 338 - 1378 E - F 188 - 390 C - D 240 - 680

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### 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

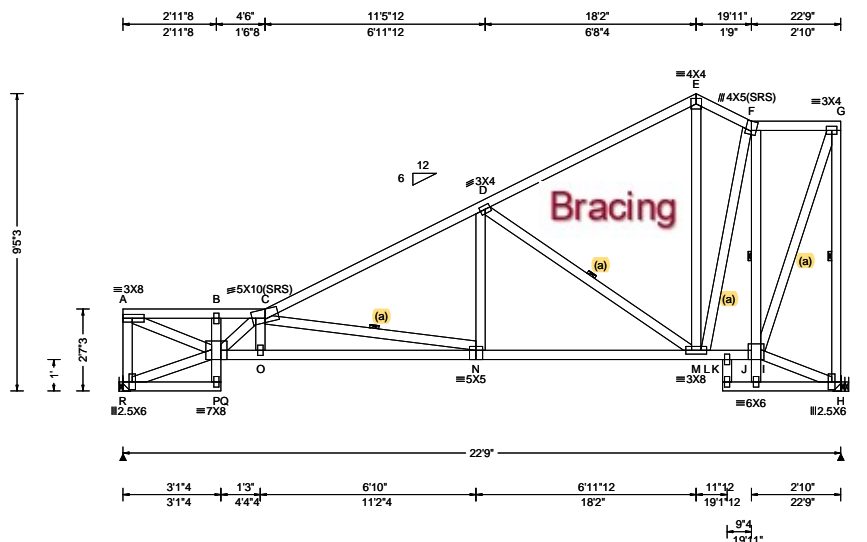
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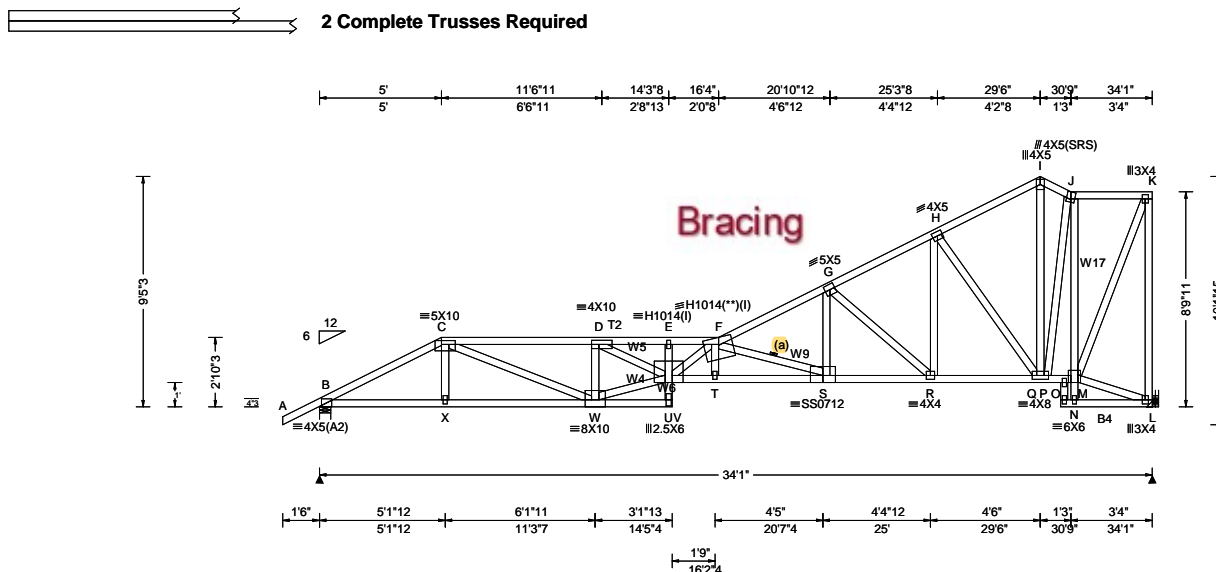
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62407 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A07	Cust: R 215 JRef: 1XeT2150011 T41 / DrwNo: 108.22.1559.07006 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.546 F 745 240 VERT(CL): 1.098 F 370 180 HORZ(LL): -0.154 I - - HORZ(TL): 0.311 I - - Creep Factor: 2.0 Max TC CSI: 0.742 Max BC CSI: 0.745 Max Web CSI: 0.788 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2949 - / - / - / - /483 - / - L 1923 - / - / - / - /301 - / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) L 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. Chords Tens. Comp.
				B - C 448 -2872 G - H 217 -1380 C - D 637 -4462 H - I 97 -581 D - E 1080 -7523 I - J 86 -548 E - F 1101 -7663 J - K 61 -390 F - G 433 -2845

**Lumber**  
Top chord: 2x4 SP #2; T2 2x4 SP M-31;  
Bot chord: 2x4 SP M-31; B4 2x4 SP #2;  
Webs: 2x4 SP #3; W4 2x4 SP M-31; W5,W6,W9,  
W17 2x4 SP #2;

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

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

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 5.00  
TC: From 31 plf at 5.00 to 31 plf at 11.27  
TC: From 62 plf at 11.27 to 62 plf at 34.08  
BC: From 20 plf at 0.00 to 20 plf at 5.03  
BC: From 10 plf at 5.03 to 10 plf at 11.27  
BC: From 20 plf at 11.27 to 20 plf at 34.08  
TC: 238 lb Conc. Load at 5.03  
TC: 128 lb Conc. Load at 7.06, 9.06  
TC: 137 lb Conc. Load at 10.23  
BC: 273 lb Conc. Load at 5.03  
BC: 90 lb Conc. Load at 7.06, 9.06  
BC: 93 lb Conc. Load at 10.23  
BC: 1052 lb Conc. Load at 11.27

**Plating Notes**  
All plates are 2X4 except as noted.  
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

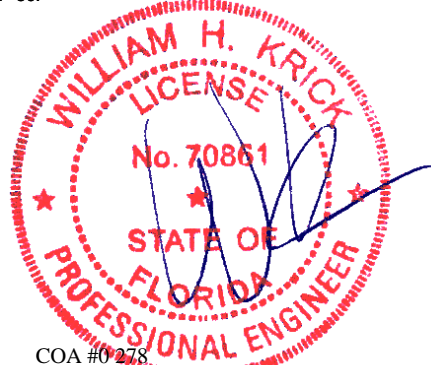
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**Hangers / Ties**  
(J) Hanger Support Required, by others

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

Chords	Tens.Comp.	Chords	Tens. Comp.
B - X	2533 -391	S - R	2432 -366
X - W	2544 -388	R - Q	1161 -178
U - T	6706 -982	Q - O	406 -63
T - S	6735 -988	O - M	396 -66

Maximum Web Forces Per Ply (lbs)	Webbs	Tens.Comp.	Webbs	Tens. Comp.
C - W	2069	-269	G - R	247 -1657
W - D	349	-1793	R - H	1162 -143
W - U	4674	-672	H - Q	176 -1152
D - U	3297	-472	I - Q	385 -40
U - F	1191	-149	Q - J	542 -76
T - F	110	-583	J - M	138 -811
F - S	648	-4474	M - K	975 -151
S - G	1606	-204	K - L	157 -942



COA #0278

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Glenview, IL 60025

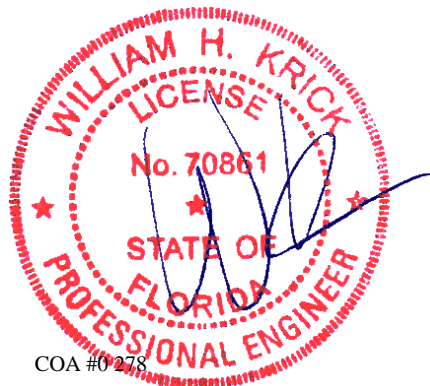
SEQN: 62598 /	SPEC	Ply: 2	Job Number: 22-7310	Cust: R 215 JRef: 1XeT2150011 T54 /
FROM:		Qty: 1	Parnell	DrwNo: 108.22.1559.07146
Page 2 of 2			Truss Label: A08	AK / FV 04/18/2022

#### Wind

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

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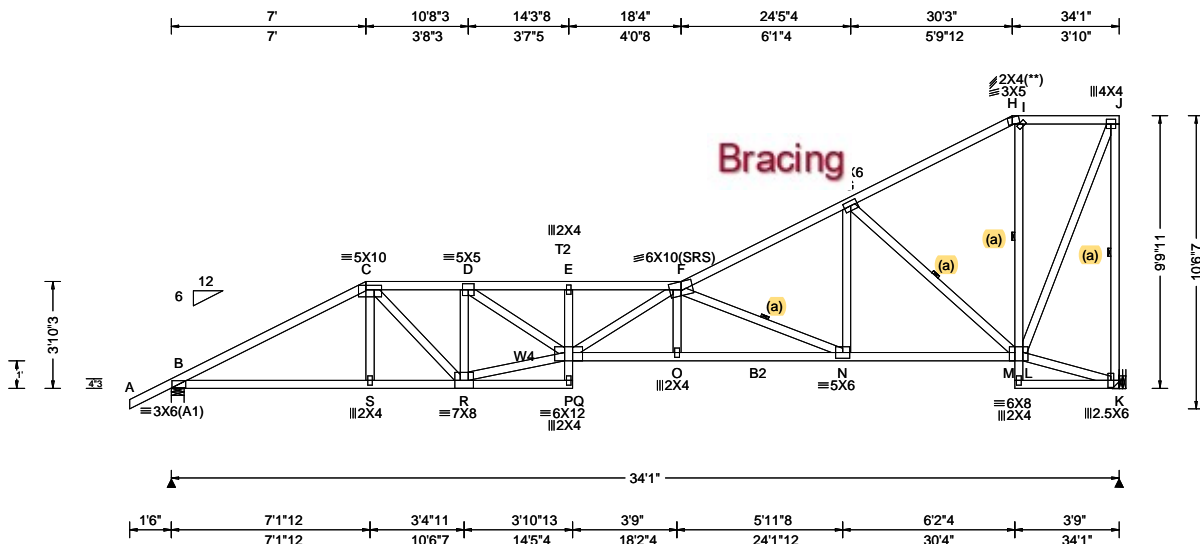
For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



155 Harlem Ave  
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SEQN: 62519 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A09	Cust: R 215 JRef: 1XeT2150011 T1 / DrwNo: 108.22.1559.05865 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.312 O 999 240 VERT(CL): 0.637 O 639 180 HORZ(LL): 0.104 K - - HORZ(TL): 0.212 K - - Creep Factor: 2.0 Max TC CSI: 0.571 Max BC CSI: 0.642 Max Web CSI: 0.863 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1506 - / - / - /915 /61 /257 K 1395 - / - / - /851 /142 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Truss) K 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. Chords Tens. Comp. B - C 885 -2544 F - G 603 -2138 C - D 1060 -2829 G - H 198 -705 D - E 1788 -4731 H - I 214 -553 E - F 1805 -4774 I - J 214 -547

#### Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
Webs: 2x4 SP #3; W4 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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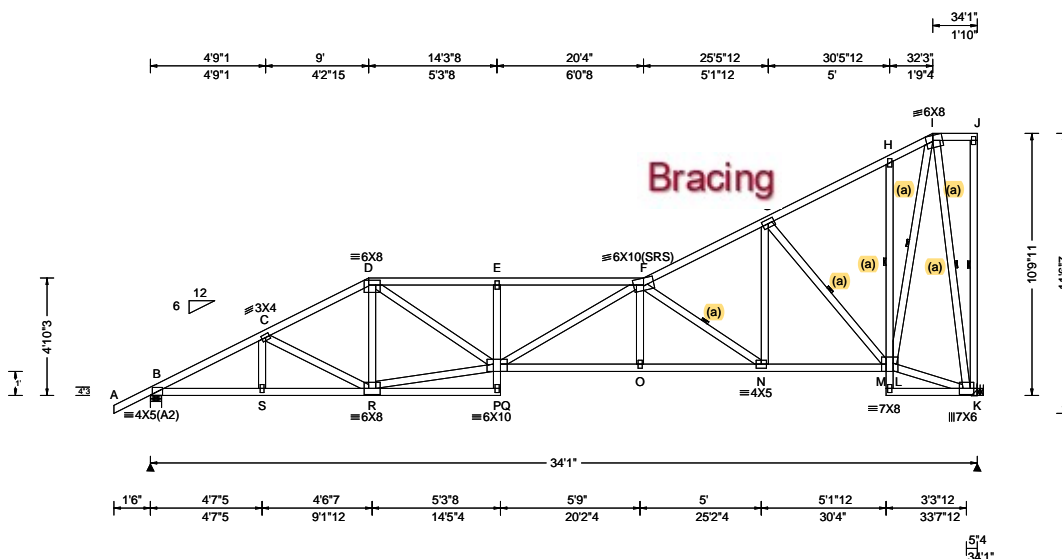
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SEQN: 62068 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A10	Cust: R 215 JRef: 1XeT2150011 T63 / DrwNo: 108.22.1559.05897 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.20 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.239 E 999 240 VERT(CL): 0.486 E 837 180 HORZ(LL): 0.099 K - - HORZ(TL): 0.201 K - - Creep Factor: 2.0 Max TC CSI: 0.717 Max BC CSI: 0.846 Max Web CSI: 0.813  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1506 - / - / - /924 /120 /284 K 1395 - / - / - /872 /192 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Truss) K Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 821 -2621 F - G 486 -1811 C - D 814 -2322 G - H 158 -684 D - E 1318 -3396 H - I 223 -645 E - F 1327 -3418

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

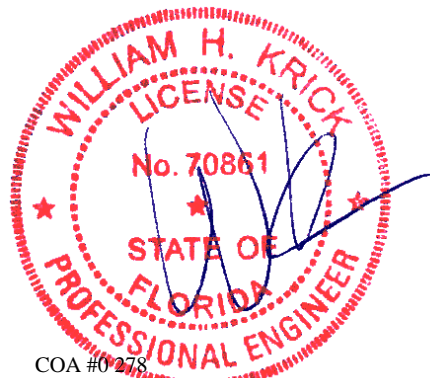
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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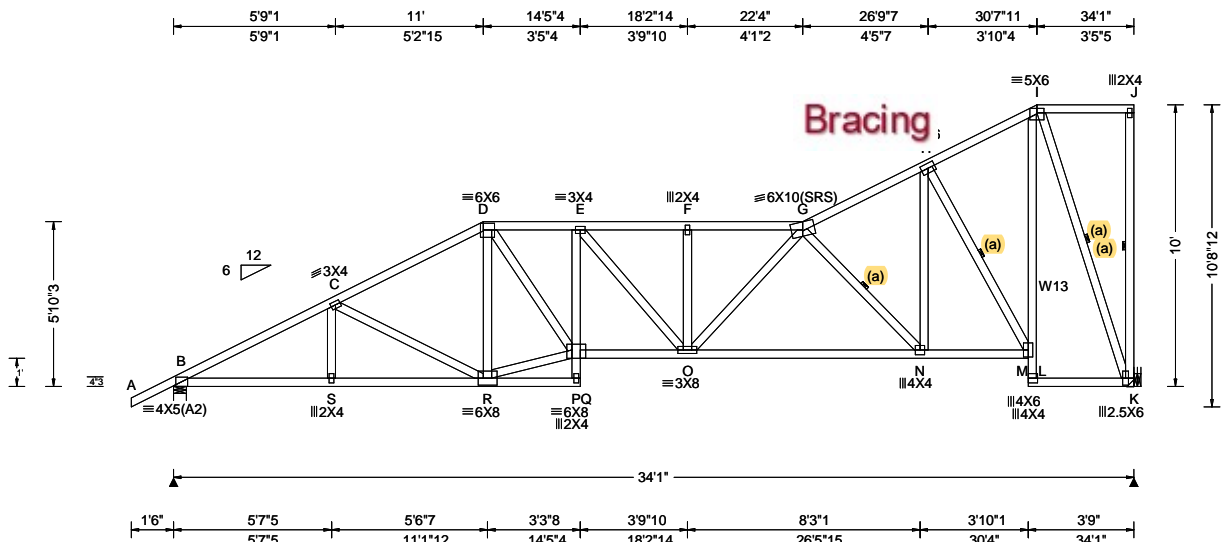
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SEQN: 62577 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A11	Cust: R 215 JRRef: 1XeT2150011 T38 / DrwNo: 108.22.1559.05741 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.194 F 999 240 VERT(CL): 0.396 F 999 180 HORZ(LL): 0.187 K - - HORZ(TL): 0.381 K - - Creep Factor: 2.0 Max TC CSI: 0.372 Max BC CSI: 0.841 Max Web CSI: 0.737 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1506 - / - / - / 936 / 119 / 262 K 1395 - / - / - / 837 / 208 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 (Truss) K 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. Chords Tens. Comp. B - C 805 - 2611 F - G 1001 - 2618 C - D 779 - 2169 G - H 450 - 1472 D - E 1067 - 2607 H - I 217 - 646 E - F 1000 - 2618

**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W13 2x4 SP M-31;

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

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

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

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

Chords	Tens.Comp.	Chords	Tens. Comp.
B - S	2268 - 1030	O - N	2349 - 1013
S - R	2265 - 1032	N - L	1225 - 503
P - O	2623 - 1227	M - K	454 - 188

Webs	Tens.Comp.	Webs	Tens. Comp.
C - R	148 - 446	N - H	1305 - 459
D - P	1235 - 566	H - L	579 - 1420
R - P	1935 - 930	L - I	1339 - 497
O - G	402 - 257	I - K	563 - 1358
G - N	734 - 1602		



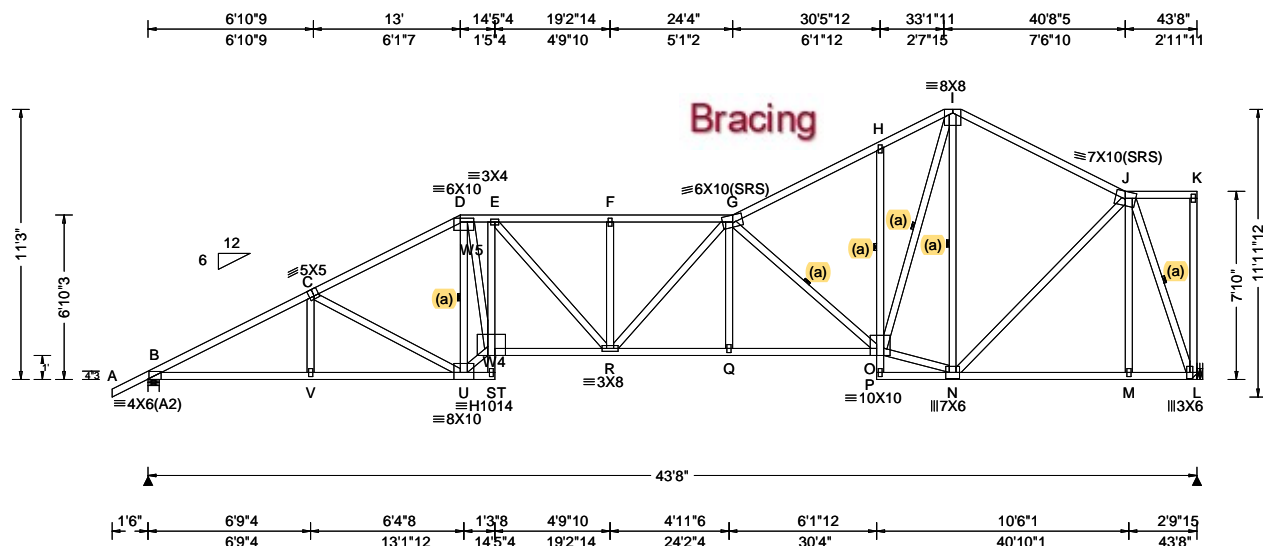
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SEQN: 62581 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A12	Cust: R 215 JRef: 1XeT2150011 T68 / DrwNo: 108.22.1559.06085 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.42 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.37 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.321 F 999 240 VERT(CL): 0.655 F 797 180 HORZ(LL): 0.147 L - - HORZ(TL): 0.301 L - - Creep Factor: 2.0 Max TC CSI: 0.691 Max BC CSI: 0.906 Max Web CSI: 0.879 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1900 - / - / - /1174 /62 /302 L 1790 - / - / - /982 /68 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 2.2 (Truss) L 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. Chords Tens. Comp. B - C 982 -3412 F - G 1251 -3479 C - D 954 -2890 G - H 790 -2278 D - E 1161 -3195 H - I 876 -2211 E - F 1251 -3479 I - J 547 -1531

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W4, W5 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

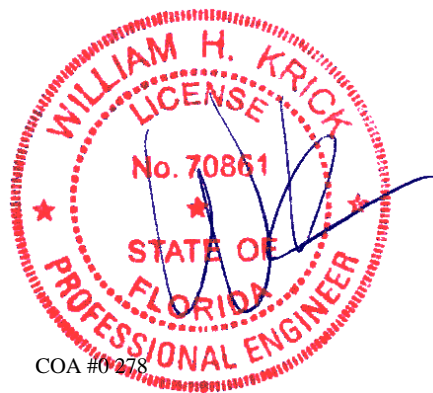
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

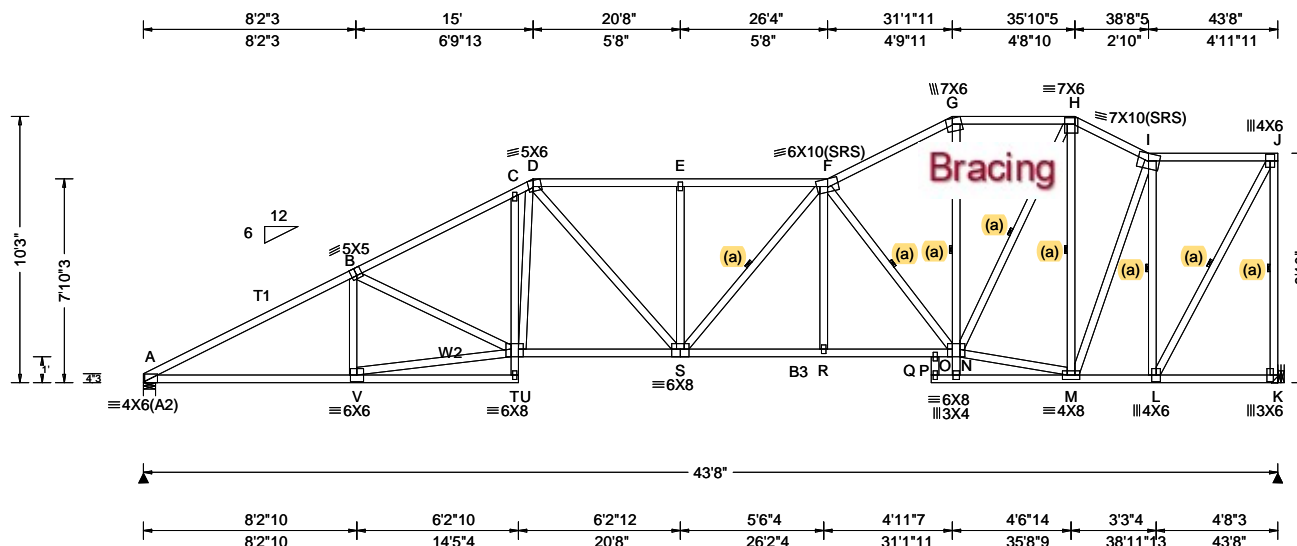
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SEQN: 62583 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A13	Cust: R 215 JRRef: 1XeT2150011 T32 / DrwNo: 108.22.1559.06178 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.30 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.37 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.233 E 999 240 VERT(CL): 0.479 E 999 180 HORZ(LL): 0.097 L - - HORZ(TL): 0.199 L - - Creep Factor: 2.0 Max TC CSI: 0.608 Max BC CSI: 0.865 Max Web CSI: 0.781 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1801 - / - / - /1104 /75 /258 K 1791 - / - / - /980 /177 - / - Non-Gravity Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 2.1 (Truss) K Brg Wid = - 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.

#### Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;  
Bot chord: 2x4 SP #2; B3 2x4 SP M-31;  
Webs: 2x4 SP #3; W2 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical 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

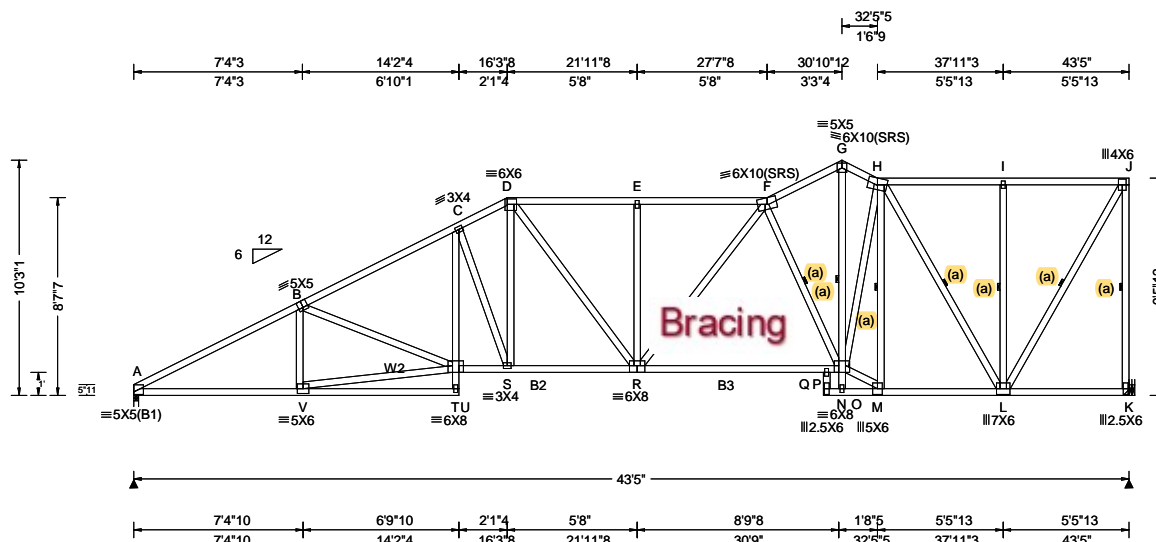
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North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62586 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A14	Cust: R 215 JRRef: 1XeT2150011 T49 / DrwNo: 108.22.1559.06740 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.36 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.34 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.231 E 999 240 VERT(CL): 0.476 E 999 180 HORZ(LL): 0.101 L - - HORZ(TL): 0.208 L - - Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.817 Max Web CSI: 0.897  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1789 - / - / - /1103 /74 /254 K 1783 - / - / - /980 /207 -/ Wind reactions based on MWFRS A Brg Wid = 2.5 Min Req = 1.5 (Truss) K Brg Wid = - 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 934 - 3302 F - G 815 - 2049 B - C 1117 - 3230 G - H 835 - 2015 C - D 1085 - 2830 H - I 404 - 957 D - E 1046 - 2671 I - J 404 - 957 E - F 1046 - 2671

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP M-31; B2,B3 2x4 SP #2;  
Webs: 2x4 SP #3; W2 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical 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).

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - V	2858 - 1114	R - P	2450 - 1011
T - S	2807 - 1151	P - N	2456 - 1021
S - R	2486 - 1014	M - L	1606 - 664

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - T	2807 - 1100	N - H	987 - 310
T - C	746 - 214	N - M	1962 - 805
C - S	407 - 960	H - M	389 - 932
D - S	821 - 282	H - L	507 - 1266
E - R	305 - 387	I - L	319 - 408
R - F	466 - 168	L - J	1866 - 788
F - N	711 - 1584	J - K	761 - 1734
G - N	1627 - 645		



COA #0278

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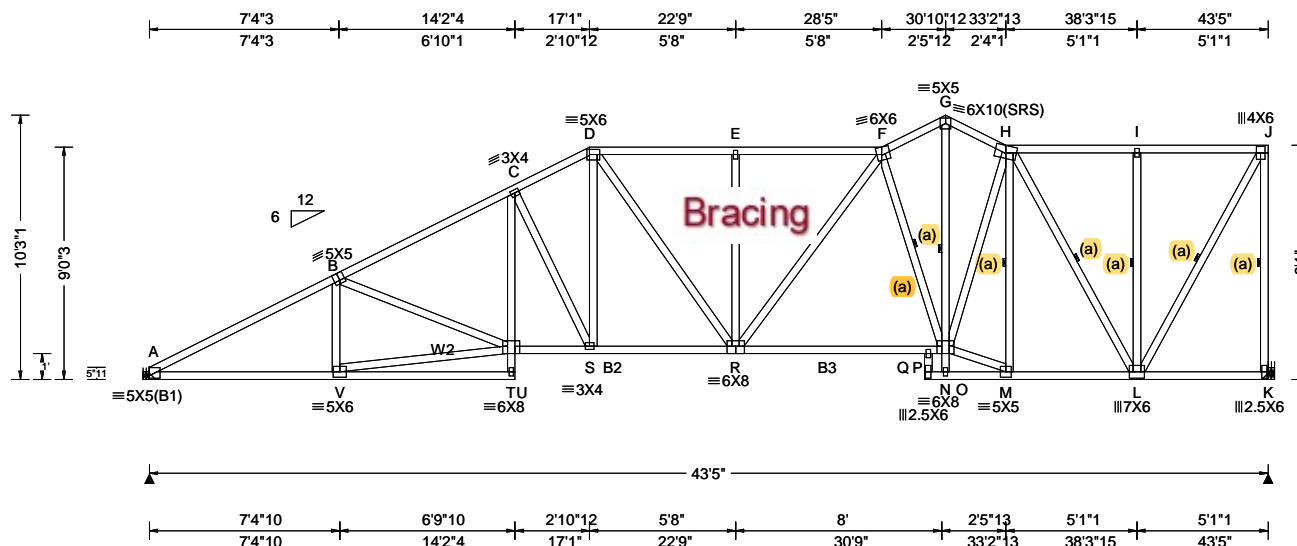
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62588 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A15	Cust: R 215 JRRef: 1XeT2150011 T79 / DrwNo: 108.22.1559.06881 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.36 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.34 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.223 T 999 240 VERT(CL): 0.460 T 999 180 HORZ(LL): 0.095 K - - HORZ(TL): 0.195 K - - Creep Factor: 2.0 Max TC CSI: 0.756 Max BC CSI: 0.789 Max Web CSI: 0.876  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1790 - / - / - /1104 /140 /254 K 1782 - / - / - /971 /268 - / - Wind reactions based on MWFRS A Brg Wid = - Min Req = - K Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 921 -3291 F - G 830 -2037 B - C 1103 -3226 G - H 830 -2030 C - D 1043 -2738 H - I 389 -935 D - E 1007 -2525 I - J 389 -935 E - F 1007 -2525

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP M-31; B2, B3 2x4 SP #2;  
Webs: 2x4 SP #3; W2 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical 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

04/18/2022

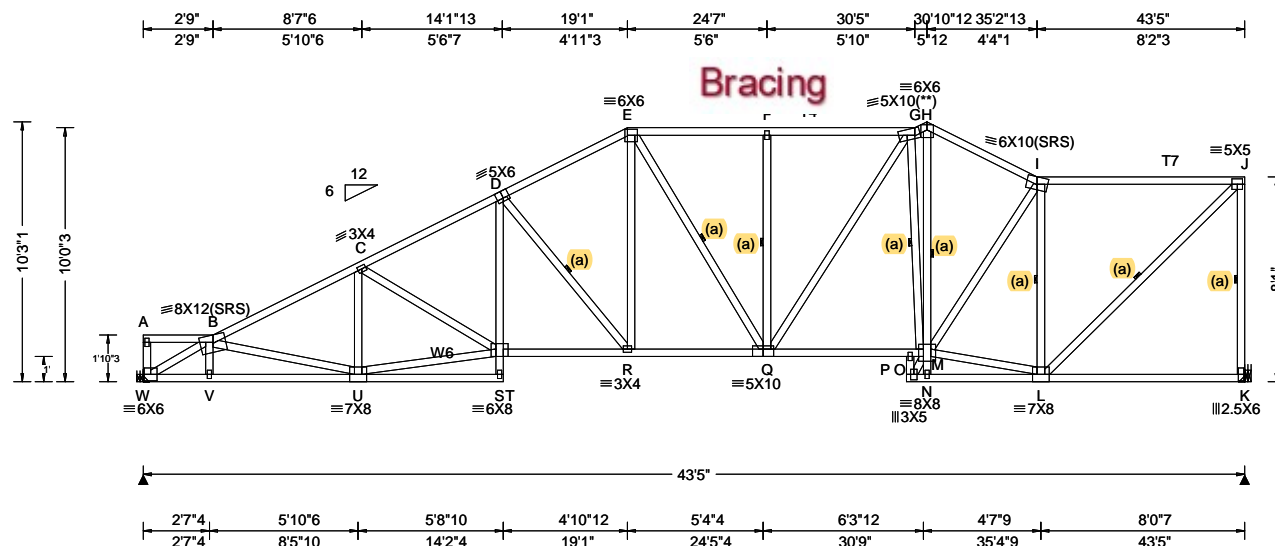
Florida Certificate of Product Approval #FL 1999

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

SEQN: 62523 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A16	Cust: R 215 JRef: 1XeT2150011 T47 / DrwNo: 108.22.1559.07882 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.05 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.34 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.212 S 999 240 VERT(CL): 0.437 S 999 180 HORZ(LL): 0.088 K - - HORZ(TL): 0.181 K - - Creep Factor: 2.0 Max TC CSI: 0.655 Max BC CSI: 0.786 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL W 1788 - / - / - /1058 /111 /222 K 1788 - / - / - /948 /241 /- Wind reactions based on MWFRS W Brg Wid = - Min Req = - K Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 948 -3227 F - G 944 -2218 C - D 1109 -3239 G - H 815 -1845 D - E 976 -2546 H - I 843 -2080 E - F 944 -2218 I - J 609 -1546

#### Lumber

Top chord: 2x4 SP #2; T4, T7 2x4 SP M-31;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W6 2x4 SP #2;

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).

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Deflection

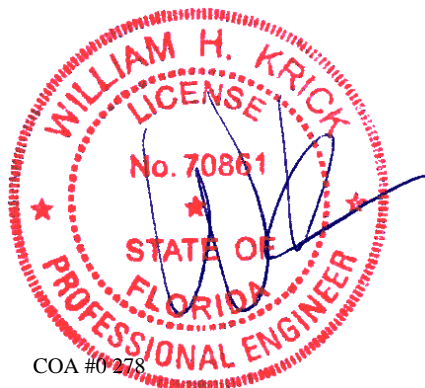
Max JT VERT DEFL: LL: 0.21" DL: 0.24". See detail DEFLCMB1014 for camber recommendations.  
Provide for adequate drainage of roof.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
W - V	2964 - 1094	R - Q	2213 - 855
V - U	2959 - 1100	Q - O	1865 - 715
S - R	2823 - 1085	O - M	1858 - 724

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
W - B	972 - 3387	G - M	635 - 1184
U - C	261 - 397	H - M	1272 - 605
U - S	2833 - 1055	M - I	500 - 126
S - D	748 - 198	M - L	1589 - 555
D - R	367 - 974	I - L	799 - 1689
E - R	794 - 198	L - J	2153 - 848
F - Q	321 - 410	J - K	767 - 1721
Q - G	727 - 283		



COA #0278

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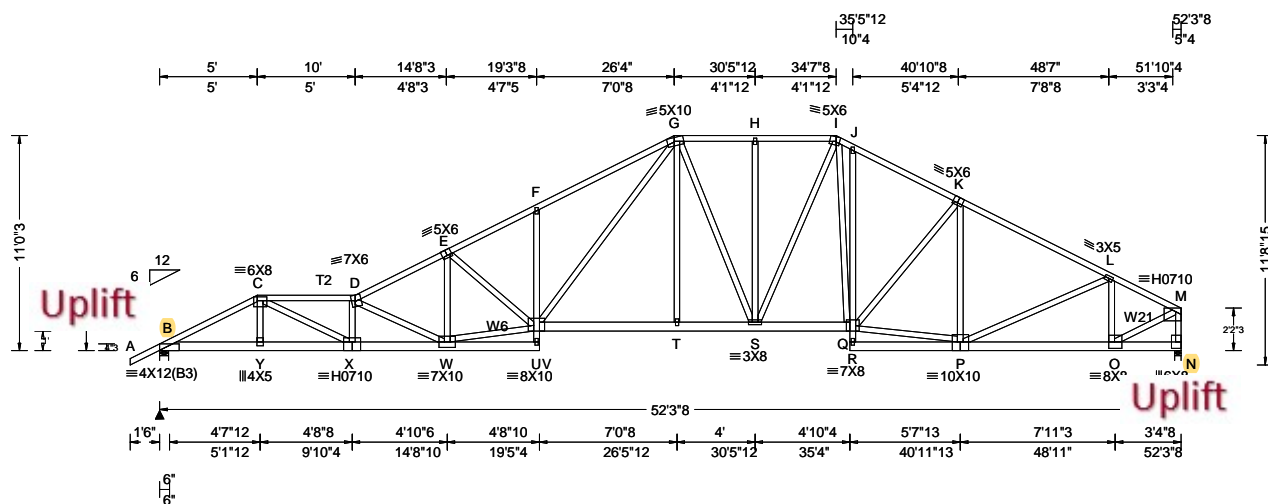


155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 426992 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A17	Cust: R 215 JRef: 1XeT2150011 T85 / DrwNo: 108.22.1559.07896 SSB / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.31 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.23 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.387 F 999 240 VERT(CL): 0.775 F 807 180 HORZ(LL): 0.089 N - - HORZ(TL): 0.179 N - - Creep Factor: 2.0 Max TC CSI: 0.857 Max BC CSI: 0.384 Max Web CSI: 0.928 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 4325 -/- /- /- /693 -/ N 7742 -/- /- /- /1238 -/ Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.8 N Brg Wid = 4.0 Min Req = 3.2 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 683 -4406 H - I 360 -2199 C - D 884 -5569 I - J 408 -2480 D - E 662 -4051 J - K 426 -2543 E - F 610 -3684 K - L 463 -2792 F - G 620 -3710 L - M 636 -4052 G - H 360 -2199

#### Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W6, W21 2x4 SP #2;

#### Nailnote

Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 10.25" o.c.  
Webs: 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur. Fac. = 1.25 / Plate Dur. Fac. = 1.25)  
TC: From 62 plf at -1.50 to 62 plf at 52.29  
BC: From 20 plf at 0.00 to 20 plf at 52.29  
TC: 110 lb Conc. Load at 5.13  
BC: 1772 lb Conc. Load at 5.13  
BC: 5149 lb Conc. Load at 48.79  
BC: 640 lb Conc. Load at 50.35

#### Plating Notes

All plates are 2X4 except as noted.

#### Purlins

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

#### Wind

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

#### Additional Notes

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

The overall height of this truss excluding overhang is 11'-0".

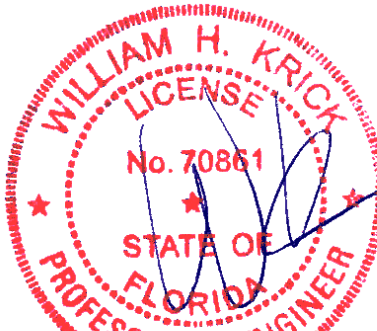
It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Y	3912 -601	T - S	2216 -362
Y - X	3967 -605	S - Q	2155 -354
X - W	5670 -905	P - O	3555 -560
U - T	2216 -363		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - Y	924 -79	I - Q	873 -129
C - X	1808 -323	Q - P	2437 -392
X - D	186 -859	P - L	185 -1220
D - W	365 -2335	L - O	904 -85
W - U	3601 -578	O - M	4065 -636
E - U	57 -421	M - N	587 -3722
U - G	1774 -292		



COA #0278

04/18/2022  
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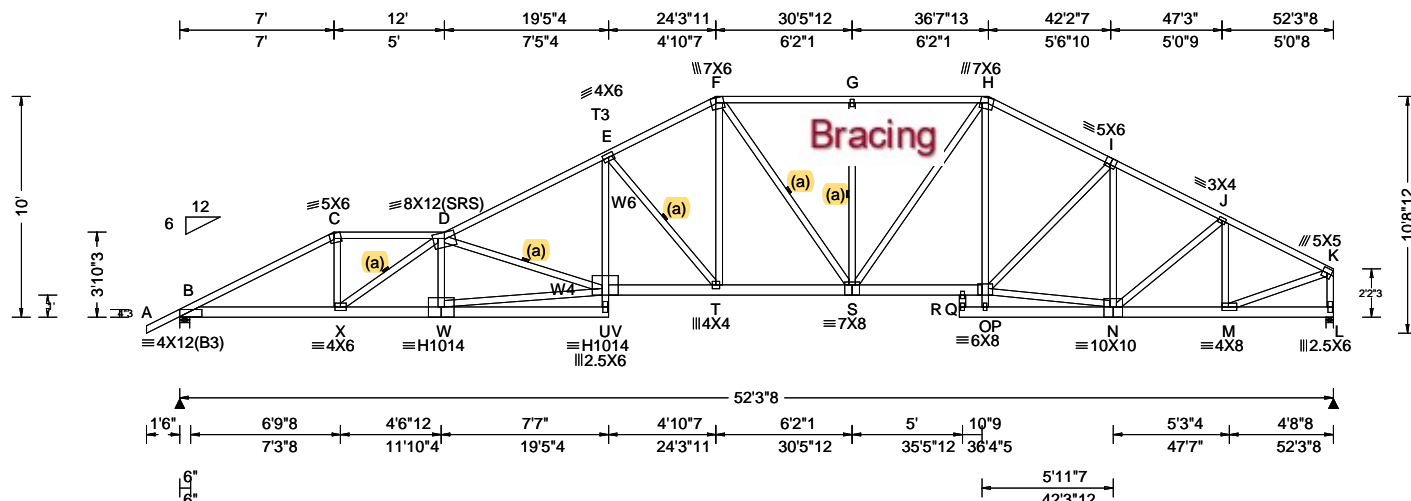
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62427 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A18	Cust: R 215 JRef: 1XeT2150011 T83 / DrwNo: 108.22.1559.05945 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.52 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.23 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.363 U 999 240 VERT(CL): 0.742 U 843 180 HORZ(LL): 0.099 L - - HORZ(TL): 0.202 L - - Creep Factor: 2.0 Max TC CSI: 0.899 Max BC CSI: 0.316 Max Web CSI: 0.976 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2255 - / - / - /1361 - /282 L 2146 - / - / - /1221 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.9 (Truss) L Brg Wid = 4.0 Min Req = 1.8 (Truss) Bearings B & 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 815 -4230 G - H 346 -3180 C - D 803 -3831 H - I 329 -3156 D - E 670 -4908 I - J 340 -2952 E - F 479 -3715 J - K 272 -2566 F - G 346 -3180

#### Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W4 2x4 SP M-31; W6 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

#### Purlins

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

#### Wind

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

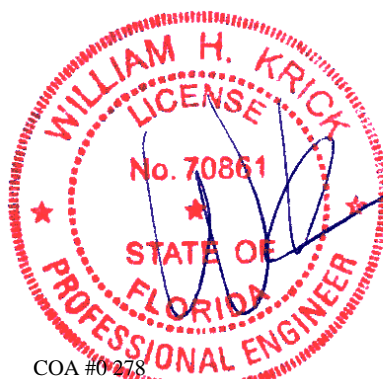
Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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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 #0218

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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - X	3703 -772	S - Q	2764 -42
X - W	5675 -952	Q - O	2735 -43
U - T	4301 -497	N - M	2283 -199
T - S	3250 -181		

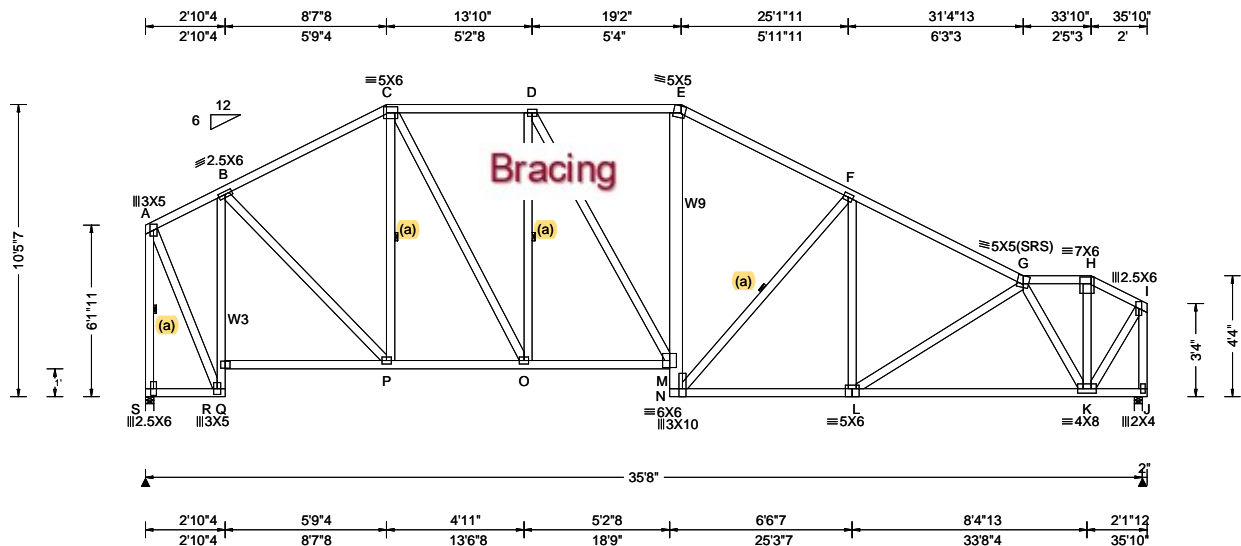
#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - X	1517 -111	S - H	714 -26
X - D	258 -2290	O - H	473 -107
D - W	219 -717	O - N	2562 -159
D - U	485 -1442	I - N	49 -589
W - U	5538 -932	N - J	385 0
U - E	1407 -242	J - M	127 -758
E - T	503 -1677	M - K	2377 -199
F - T	1413 -326	K - L	246 -2090
G - S	0 -398		

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

SEQN: 62279 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A19	Cust: R 215 JRef: 1XeT2150011 T37 / DrwNo: 108.22.1559.07568 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.89 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.58 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.185 M 999 240 VERT(CL): 0.381 M 999 180 HORZ(LL): 0.227 K - - HORZ(TL): 0.467 K - - Creep Factor: 2.0 Max TC CSI: 0.458 Max BC CSI: 0.845 Max Web CSI: 0.708  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1463 -/- /- /772 /92 /187 J 1489 -/- /- /863 /92 -/ Wind reactions based on MWFRS S Brg Wid = 3.6 Min Req = 1.7 (Truss) J Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings S & 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. A - B 232 -595 E - F 681 -1554 B - C 559 -1273 F - G 640 -1801 C - D 676 -1356 G - H 244 -646 D - E 708 -1440 H - I 245 -740

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W3 2x4 SP M-31;  
W9 2x6 SP 2400f-2.0E;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 3X4 except as noted.

#### Purlins

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

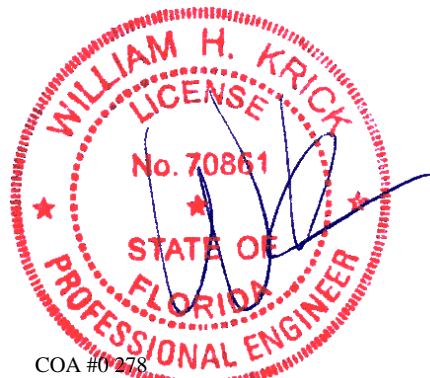
#### Wind

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

End verticals not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



COA #0278

04/18/2022  
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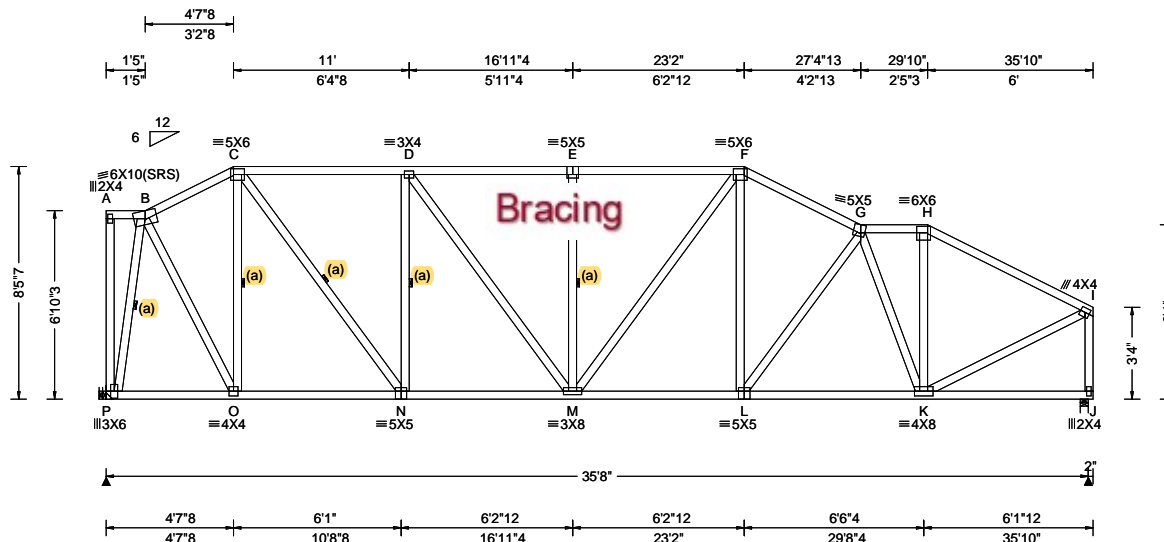
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SEQN: 62302 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A21	Cust: R 215 JRef: 1XeT2150011 T35 / DrwNo: 108.22.1559.05990 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.89 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.58 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 E 999 240 VERT(CL): 0.190 E 999 180 HORZ(LL): 0.033 C - - HORZ(TL): 0.068 C - - Creep Factor: 2.0 Max TC CSI: 0.579 Max BC CSI: 0.713 Max Web CSI: 0.694  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL P 1463 - / - / - /740 /178 /132 J 1489 - / - / - /856 /103 - / - Wind reactions based on MWFRS P Brg Wid = - Min Req = - J Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearing J is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 419 -860 F - G 836 -1693 C - D 734 -1367 G - H 609 -1200 D - E 868 -1617 H - I 604 -1410 E - F 868 -1618

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

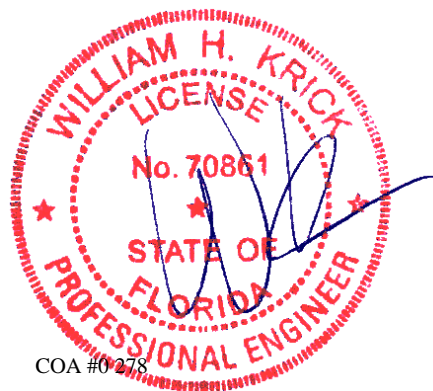
(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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



COA #0278

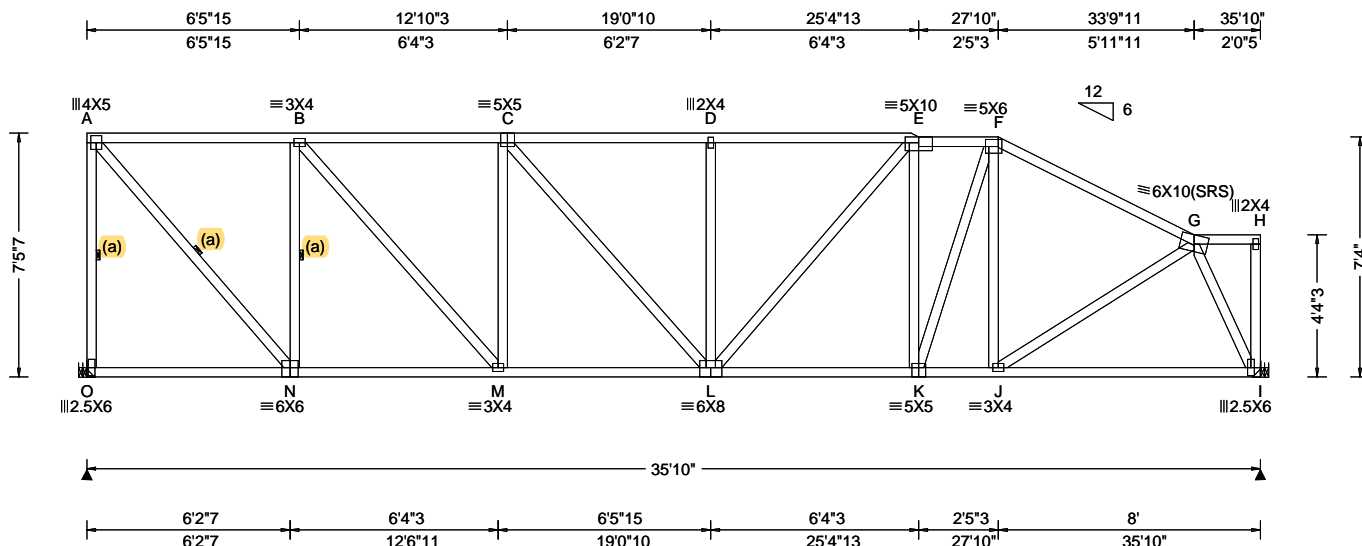
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Glenview, IL 60025



SEQN: 62306 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A22	Cust: R 215 JRRef: 1XeT2150011 T5 / DrwNo: 108.22.1559.07554 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.90 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.58 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.097 D 999 240 VERT(CL): 0.200 D 999 180 HORZ(LL): 0.031 A - - HORZ(TL): 0.064 A - - Creep Factor: 2.0 Max TC CSI: 0.713 Max BC CSI: 0.735 Max Web CSI: 0.659 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1476 - / - / - /753 /275 /106 I 1476 - / - / - /805 /191 - / - Non-Gravity Wind reactions based on MWFRS O Brg Wid = - Min Req = - I Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 526 - 1096 D - E 863 - 1882 B - C 801 - 1706 E - F 669 - 1559 C - D 861 - 1880 F - G 563 - 1580

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

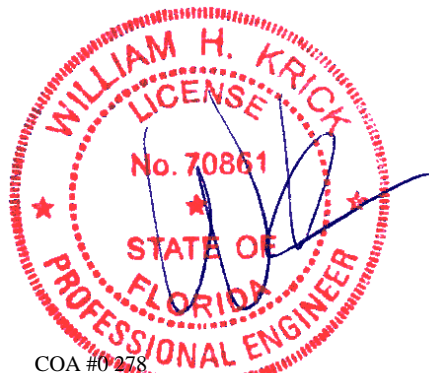
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### 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

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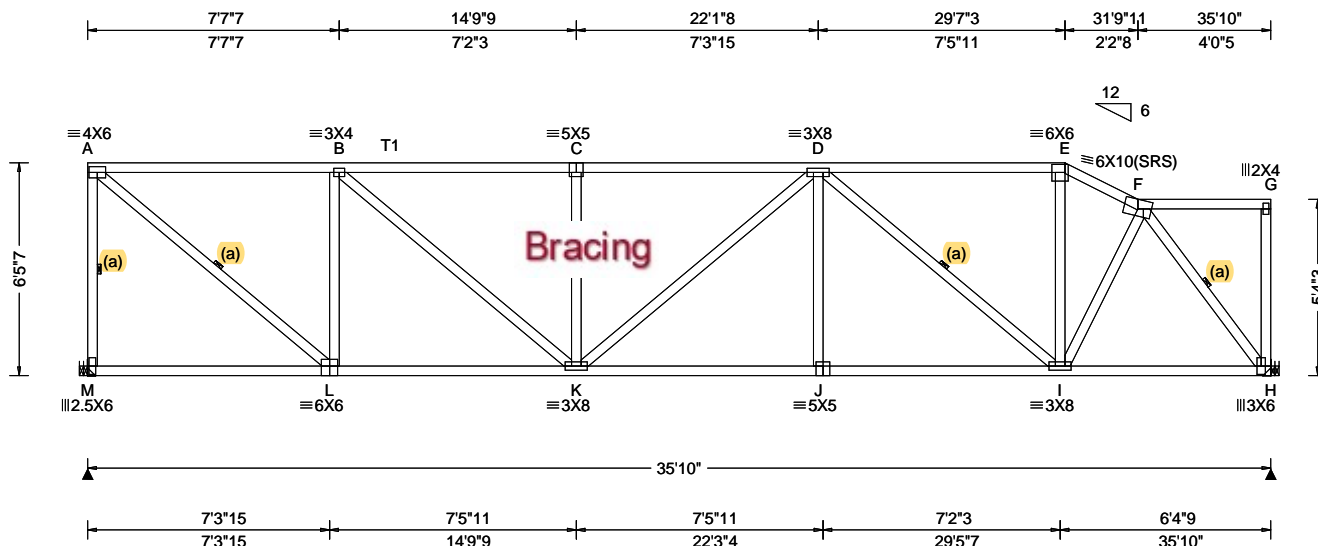
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62313 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A23	Cust: R 215 JRef: 1XeT2150011 T18 / DrwNo: 108.22.1559.07631 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.90 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.58 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.112 C 999 240 VERT(CL): 0.230 C 999 180 HORZ(LL): 0.039 H - - HORZ(TL): 0.080 H - - Creep Factor: 2.0 Max TC CSI: 0.728 Max BC CSI: 0.701 Max Web CSI: 0.786  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 1476 - / - / /742 /289 /38 H 1476 - / - / /761 /274 - / - Wind reactions based on MWFRS M Brg Wid = - Min Req = - H Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 743 - 1459 D - E 670 - 1297 B - C 1085 - 2131 E - F 699 - 1445 C - D 1085 - 2131

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

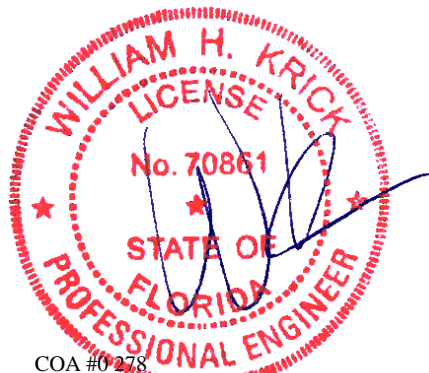
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#### Wind

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.



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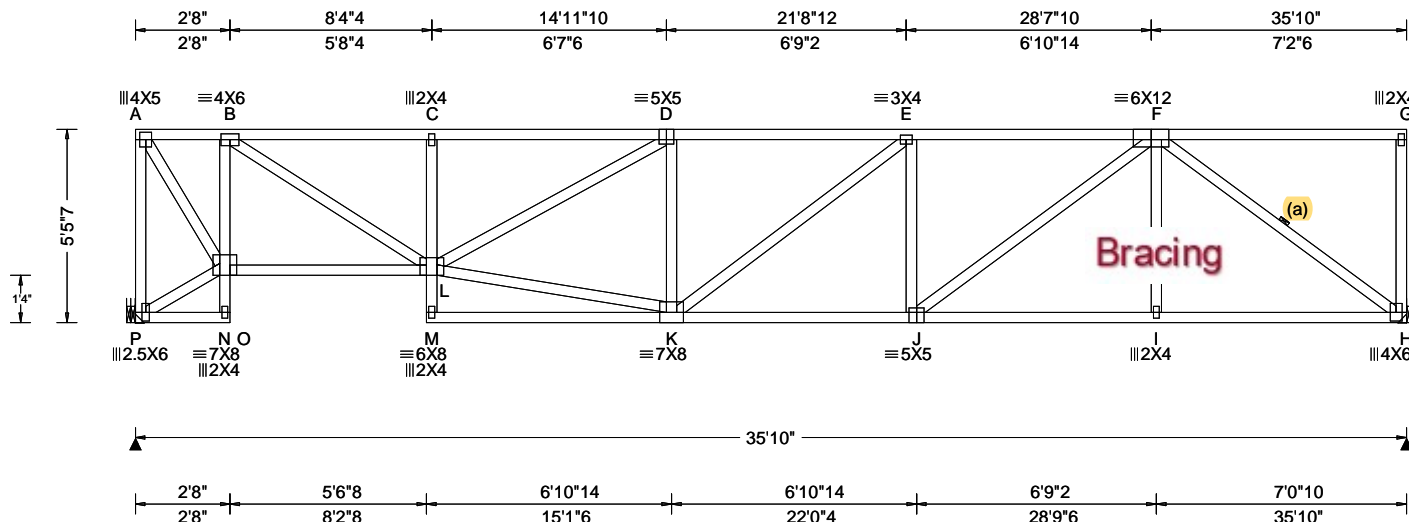
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Glenview, IL 60025



SEQN: 62603 / FROM:	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A24	Cust: R 215 JRef: 1XeT2150011 T66 / DrwNo: 108.22.1559.07647 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.45 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.58 ft Loc. from endwall: not in 10.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.169 D 999 240 VERT(CL): 0.338 D 999 180 HORZ(LL): 0.077 A - - HORZ(TL): 0.154 A - - Creep Factor: 2.0 Max TC CSI: 0.740 Max BC CSI: 0.767 Max Web CSI: 0.949 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL P 1433 - / - / 735 / 280 - / - H 1433 - / - / 735 / 280 - / - Wind reactions based on MWFRS P Brg Wid = - Min Req = - H Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 394 -961 D - E 860 -2481 B - C 966 -2545 E - F 842 -2401 C - D 961 -2528

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

End verticals not exposed to wind pressure.

#### Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

#### Additional Notes

Truss must be installed as shown with top chord up.



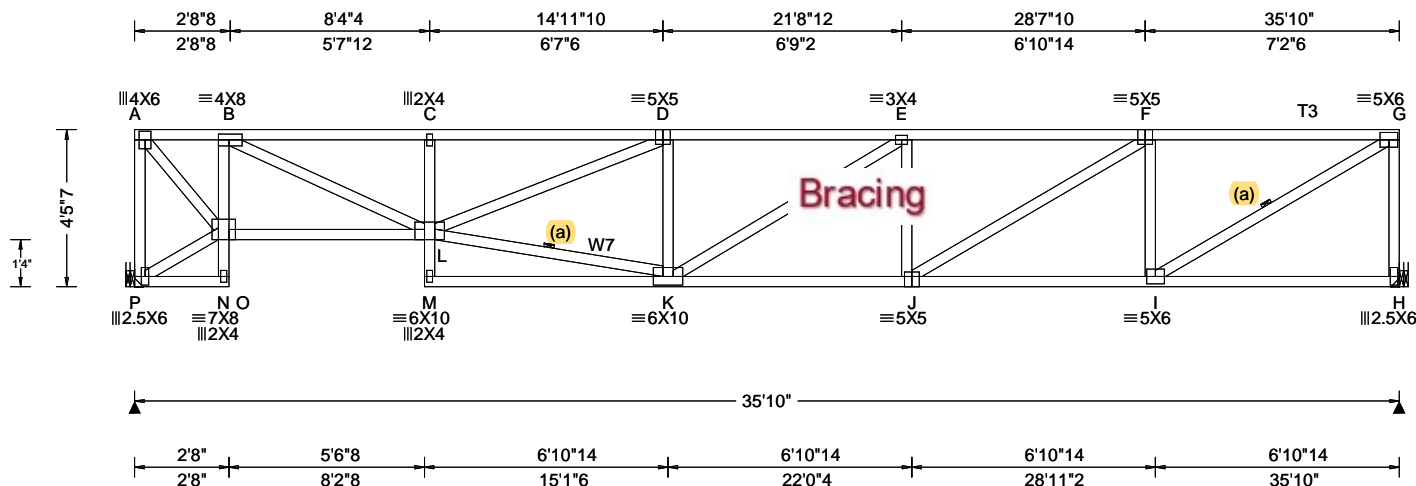
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62607 / FROM:	SPEC Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A25	Cust: R 215 JRef: 1XeT2150011 T44 / DrwNo: 108.22.1559.07100 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.58 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.256 D 999 240 VERT(CL): 0.512 D 840 180 HORZ(LL): 0.104 A - - HORZ(TL): 0.208 A - - Creep Factor: 2.0 Max TC CSI: 0.627 Max BC CSI: 0.821 Max Web CSI: 0.931 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 1433 - / - / - / 735 / 276 - / - H 1433 - / - / - / 735 / 276 - / - Wind reactions based on MWFRS P Brg Wid = - Min Req = - H Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 694 - 1331 D - E 1559 - 3077 B - C 1802 - 3486 E - F 1512 - 2975 C - D 1784 - 3447 F - G 1015 - 1995

#### Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W7 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

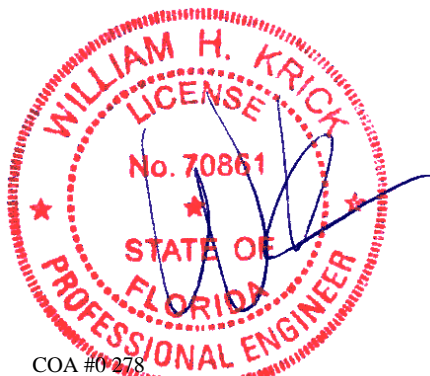
End verticals not exposed to wind pressure.

#### Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

#### Additional Notes

Truss must be installed as shown with top chord up.



COA #0278

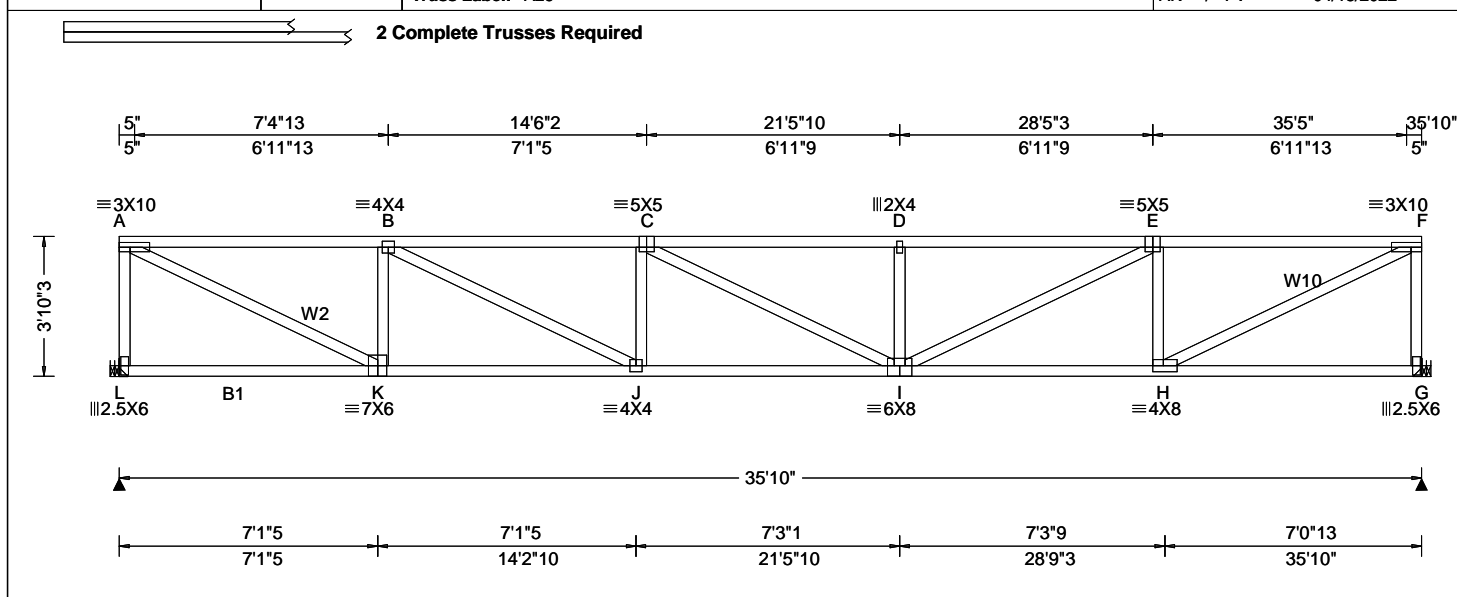
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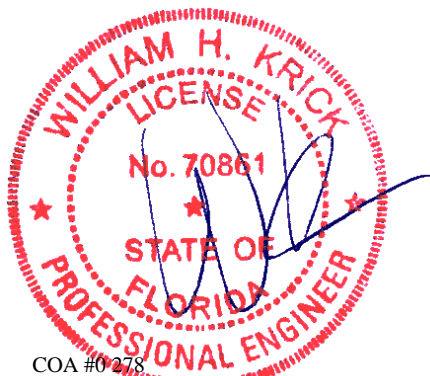
**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62259 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A26	Cust: R 215 JRef: 1XeT2150011 T87 / DrwNo: 108.22.1559.07459 AK / FV 04/18/2022
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<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.58 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): 0.296 D 999 240 VERT(CL): 0.593 D 725 180 HORZ(LL): 0.069 A - - HORZ(TL): 0.138 A - - Creep Factor: 2.0 Max TC CSI: 0.618 Max BC CSI: 0.865 Max Web CSI: 0.659 VIEW Ver: 21.02.00.1005.17	<b>▲ Maximum Reactions (lbs)</b> Gravity Loc R+ / R- / Rh / Rw / U / RL L 3154 - / - / - /474 - / - G 3137 - / - / - /472 - / - Wind reactions based on MWFRS L Brg Wid = - Min Req = - G Brg Wid = - Min Req = - Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 394 -2626 D - E 584 -3883 B - C 580 -3870 E - F 394 -2629 C - D 584 -3883
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<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x4 SP M-31; B1 2x4 SP #2; Webs: 2x4 SP #3; W2,W10 2x4 SP #2; <b>Nailnote</b> Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @11.25" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting. <b>Special Loads</b> ----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 30 plf at 0.00 to 30 plf at 35.83 BC: From 10 plf at 0.00 to 10 plf at 35.83 BC: 270 lb Conc. Load at 0.85, 2.85, 4.85, 6.85, 8.85, 10.85, 12.85, 14.85, 16.85, 18.85, 20.85, 22.85, 24.85, 26.85, 28.85, 30.85, 32.85, 34.85 <b>Hangers / Ties</b> (J) Hanger Support Required, by others <b>Purlins</b> The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing. <b>Wind</b> Wind loads and reactions based on MWFRS. End verticals not exposed to wind pressure.	<b>Deflection</b> Max JT VERT DEFL: LL: 0.30" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof. <b>Additional Notes</b> Truss must be installed as shown with top chord up.	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. K - J 2687 -406 I - H 2689 -405 J - I 3878 -584 <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. A - L 215 -1352 I - E 1341 -200 A - K 2911 -436 E - H 142 -729 K - B 143 -737 H - F 2918 -437 B - J 1334 -197 F - G 216 -1355
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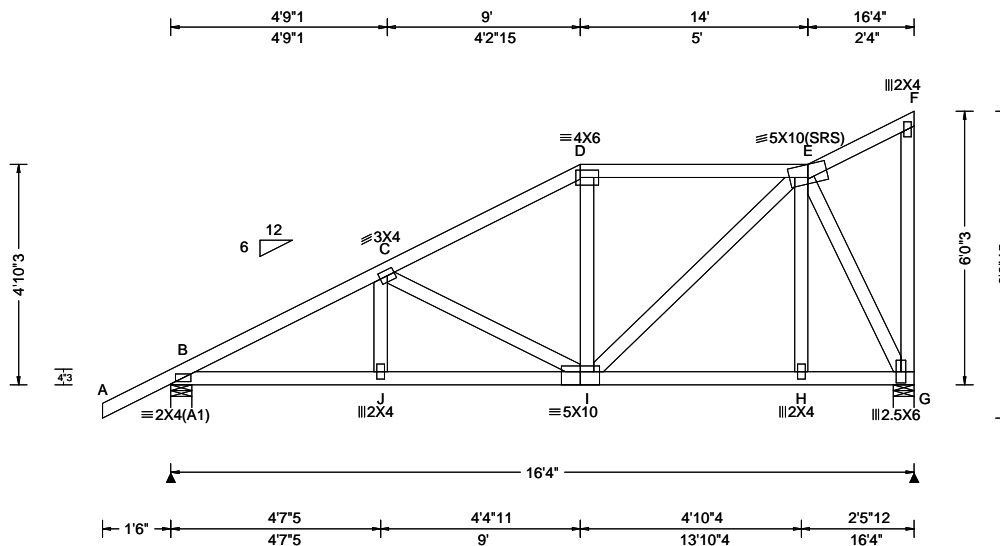
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SEQN: 62553 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A27	Cust: R 215 JRef: 1XeT2150011 T42 / DrwNo: 108.22.1559.06726 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.023 J 999 240 VERT(CL): 0.046 J 999 180 HORZ(LL): 0.008 G - - HORZ(TL): 0.017 G - - Creep Factor: 2.0 Max TC CSI: 0.260 Max BC CSI: 0.293 Max Web CSI: 0.339  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 777 /- /- /508 /40 /159 G 661 /- /- /406 /99 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 415 - 1097 D - E 375 - 604 C - D 358 - 733

#### Lumber

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

#### 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.

Right end vertical not exposed to wind pressure.

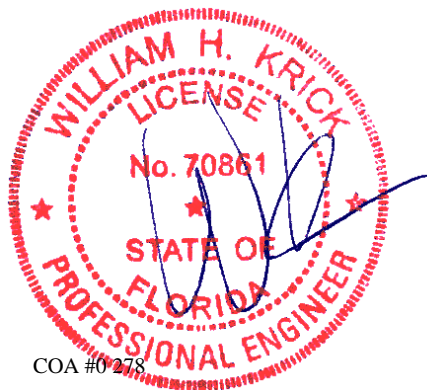
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - J	928 - 591	J - I	925 - 593

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
I - E	397 - 295	E - G	474 - 684



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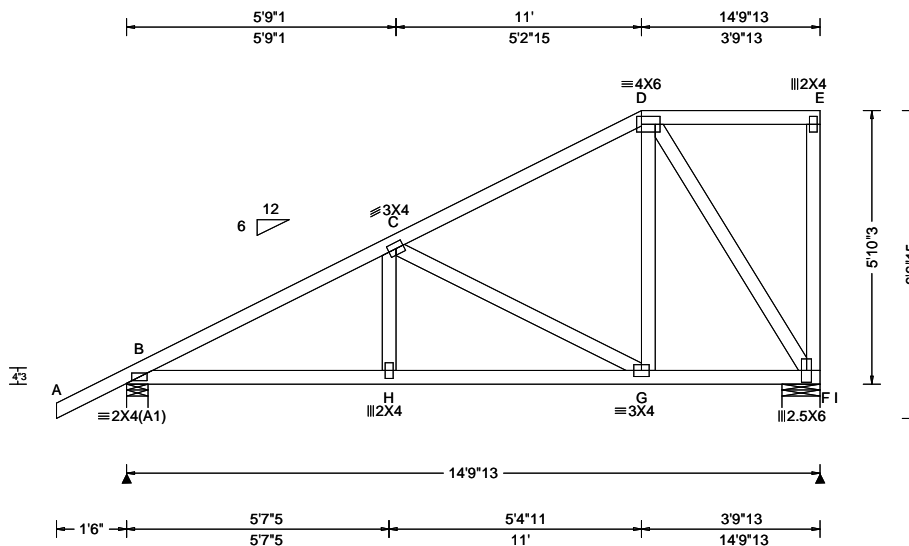
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62368 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: A28	Cust: R 215 JRef: 1XeT2150011 T22 / DrwNo: 108.22.1559.06257 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.020 H 999 240 VERT(CL): 0.040 H 999 180 HORZ(LL): 0.008 F - - HORZ(TL): 0.015 F - - Creep Factor: 2.0 Max TC CSI: 0.363 Max BC CSI: 0.322 Max Web CSI: 0.447 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 716 - / - /480 /25 /156 I 598 - / - /367 /96 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) I Brg Wid = 9.8 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 265 -941 C - D 153 -438

#### Lumber

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

#### 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.

Right end vertical not exposed to wind pressure.

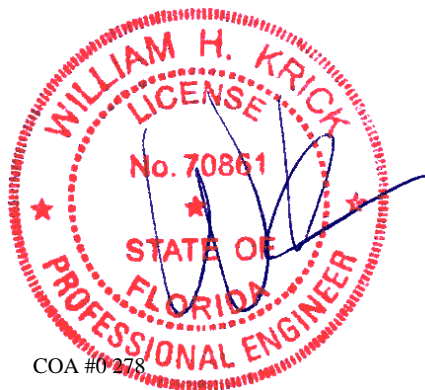
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	784 -431	H - G	781 -432

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	287 -535	D - F	318 -549
D - G	392 -86		



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



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

Maximum Web Forces Per Ply (lbs)		
Webs	Tens.Comp.	
C - E	366	- 657



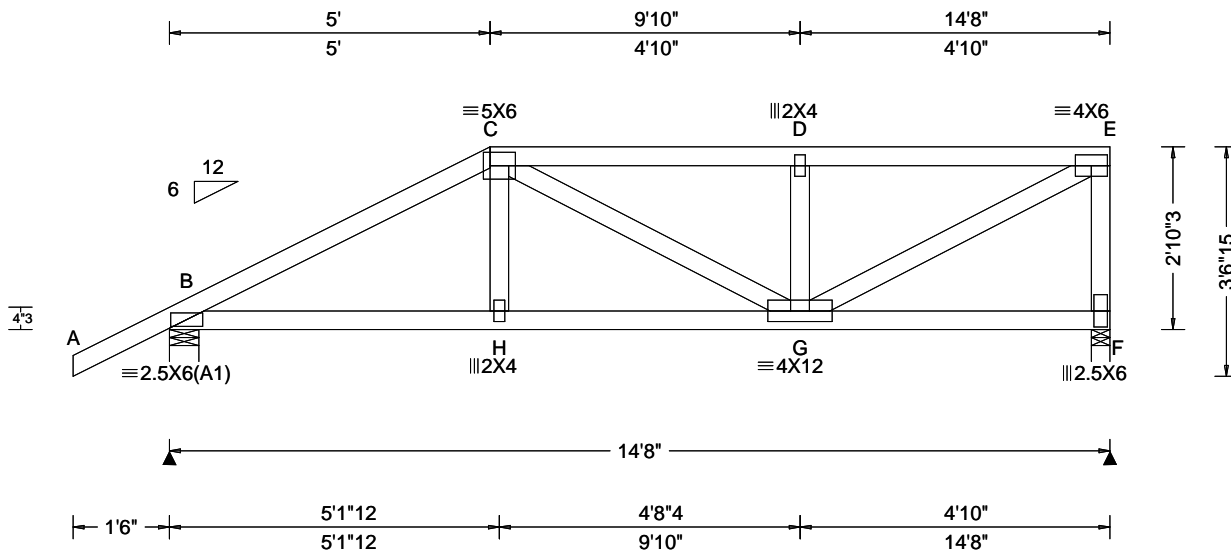
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SEQN: 62136 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B01	Cust: R 215 JRef: 1XeT2150011 T51 / DrwNo: 108.22.1559.07304 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.048 H 999 240 VERT(CL): 0.095 H 999 180 HORZ(LL): 0.014 C - - HORZ(TL): 0.027 C - - Creep Factor: 2.0 Max TC CSI: 0.639 Max BC CSI: 0.665 Max Web CSI: 0.708 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1199 - / - / - /254 - / - F 1306 - / - / - /280 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 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 404 - 1973 D - E 350 - 1666 C - D 351 - 1666

#### Lumber

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

#### Special Loads

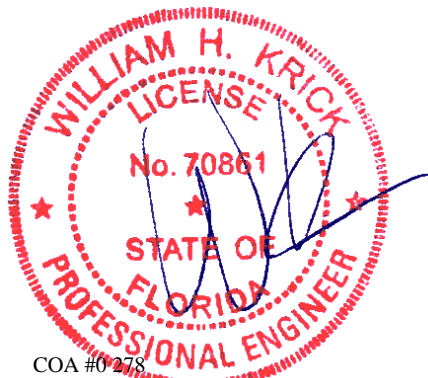
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 5.00  
TC: From 31 plf at 5.00 to 31 plf at 14.67  
BC: From 20 plf at 0.00 to 20 plf at 5.03  
BC: From 10 plf at 5.03 to 10 plf at 14.67  
TC: 238 lb Conc. Load at 5.03  
TC: 128 lb Conc. Load at 7.06, 9.06, 11.06, 13.06  
14.27  
BC: 273 lb Conc. Load at 5.03  
BC: 90 lb Conc. Load at 7.06, 9.06, 11.06, 13.06  
14.27

#### Purlins

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

#### Wind

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



COA #0278

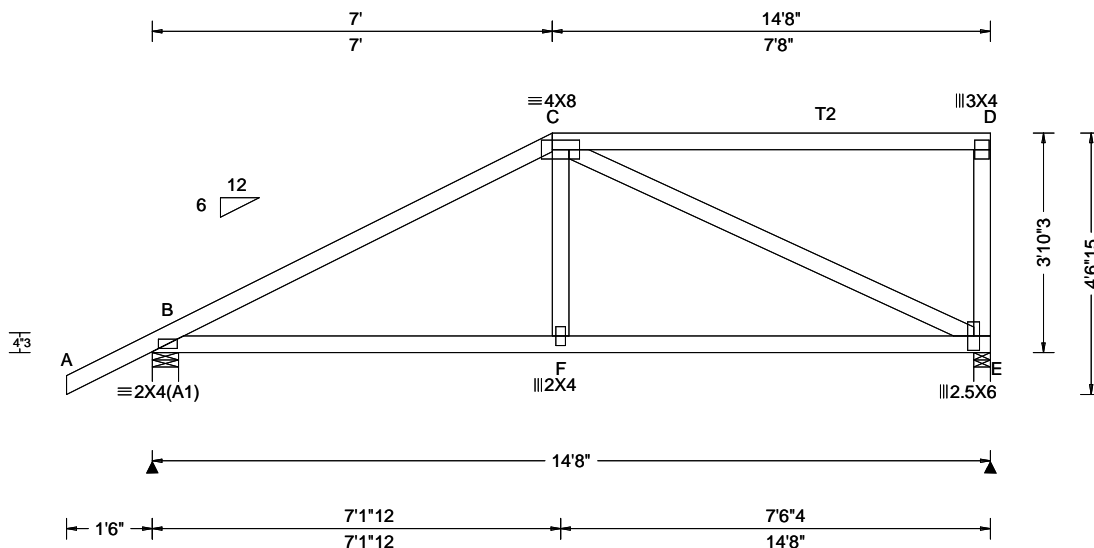
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62140 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B02	Cust: R 215 JRef: 1XeT2150011 T15 / DrwNo: 108.22.1559.05975 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.016 B 999 240 VERT(CL): 0.032 B 999 180 HORZ(LL): 0.010 B - - HORZ(TL): 0.020 B - - Creep Factor: 2.0 Max TC CSI: 0.708 Max BC CSI: 0.707 Max Web CSI: 0.861 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 709 - / - / 462 / 119 / 144 E 592 - / - / 321 / 123 - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 431 -811

#### Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Purlins

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

#### Wind

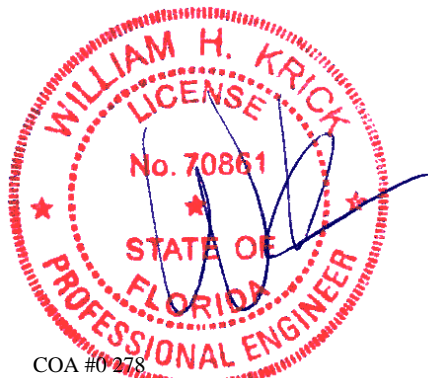
Wind loads based on MWFRS with additional C&C  
member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	634 -460	F - E	642 -457

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	476 -679



COA #0278

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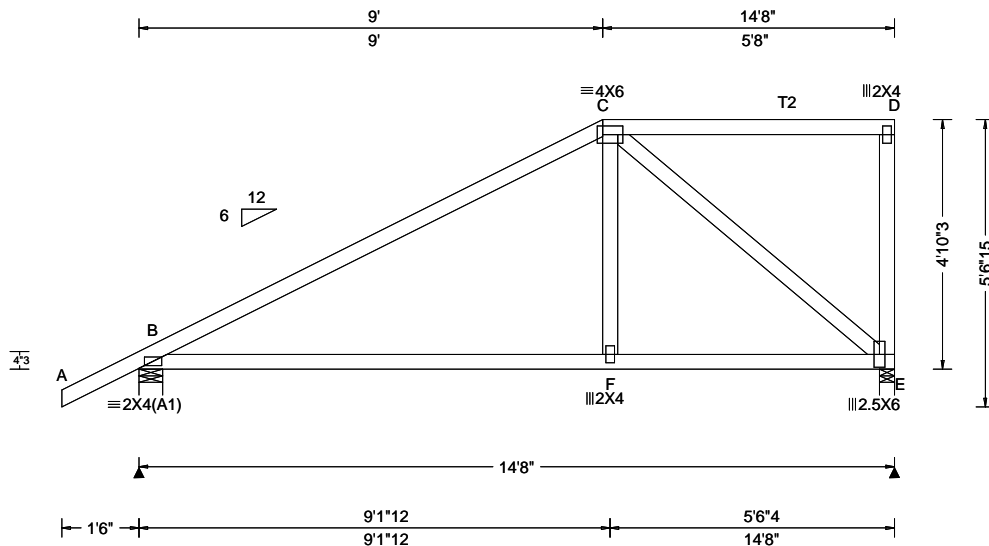
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SEQN: 62143 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B03	Cust: R 215 JRef: 1XeT2150011 T19 / DrwNo: 108.22.1559.07053 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.035 B 999 240 VERT(CL): 0.071 B 999 180 HORZ(LL): 0.022 B - - HORZ(TL): 0.045 B - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.767 Max Web CSI: 0.590 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 709 /- /- /472 /108 /180 E 592 /- /- /341 /132 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 243 -674

#### Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### 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.

Right end vertical not exposed to wind pressure.

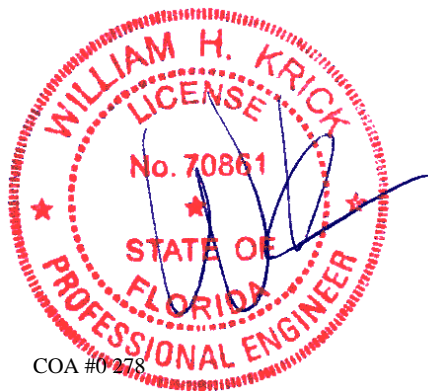
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	487 -295	F - E	494 -294

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	377 -634



COA #0278

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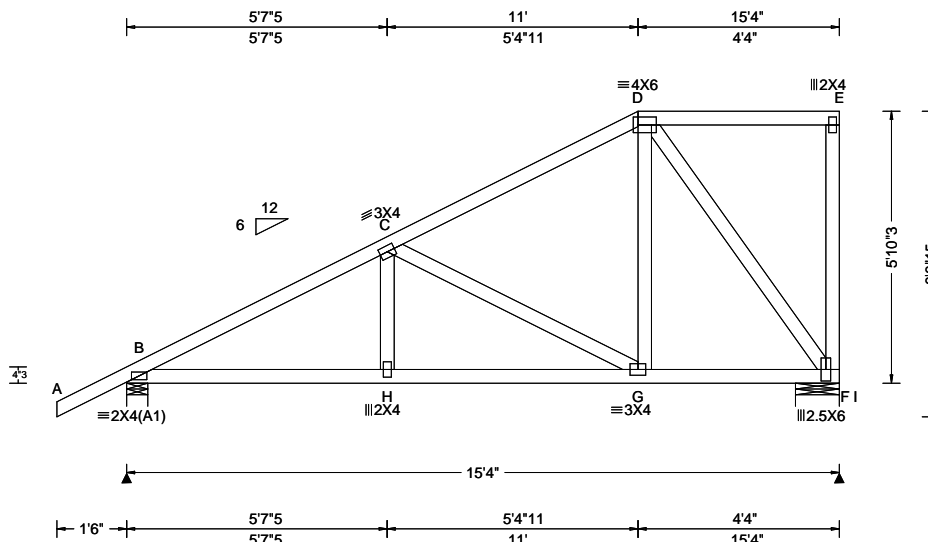
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62145 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B04	Cust: R 215 JRef: 1XeT2150011 T21 / DrwNo: 108.22.1559.07851 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.022 H 999 240 VERT(CL): 0.044 H 999 180 HORZ(LL): 0.008 F - - HORZ(TL): 0.017 F - - Creep Factor: 2.0 Max TC CSI: 0.381 Max BC CSI: 0.321 Max Web CSI: 0.509  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 737 -/- /- /493 /101 /215 I 620 -/- /- /375 /146 -/ Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) I Brg Wid = 11.3 Min Req = 1.5 (Truss) Bearings B & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 294 -993 C - D 178 -486

#### Lumber

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

#### 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.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	832 -456	H - G	835 -455

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	282 -541	D - F	332 -574
D - G	400 -76		



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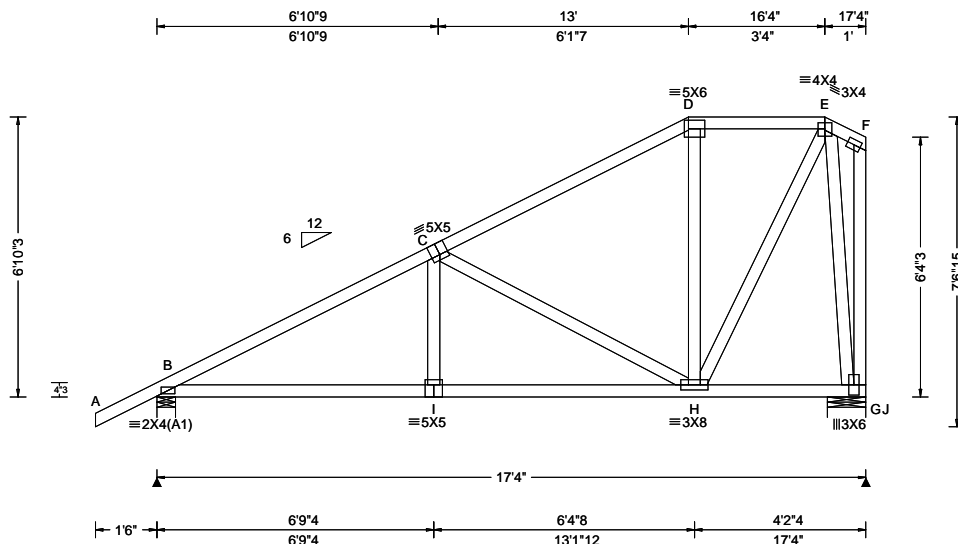
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62148 / FROM:	HIPS Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B05	Cust: R 215 JRef: 1XeT2150011 T20 / DrwNo: 108.22.1559.07852 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.026 I 999 240 VERT(CL): 0.052 I 999 180 HORZ(LL): 0.009 G - - HORZ(TL): 0.019 G - - Creep Factor: 2.0 Max TC CSI: 0.455 Max BC CSI: 0.449 Max Web CSI: 0.616  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 818 - / - /543 /113 /234 J 703 - / - /426 /159 - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) J Brg Wid = 11.3 Min Req = 1.5 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 284 - 1100 C - D 182 - 503

#### Lumber

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

#### 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.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	912 - 443	I - H	908 - 444

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - H	289 - 620	E - G	381 - 649
H - E	604 - 297		



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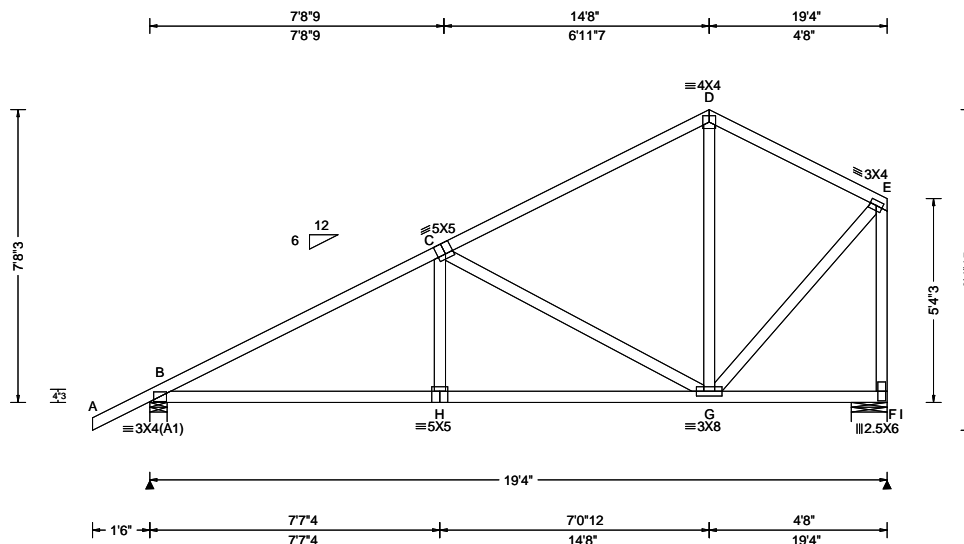
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62151 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B06	Cust: R 215 JRef: 1XeT2150011 T77 / DrwNo: 108.22.1559.06319 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.030 H 999 240 VERT(CL): 0.061 H 999 180 HORZ(LL): 0.011 G - - HORZ(TL): 0.022 G - - Creep Factor: 2.0 Max TC CSI: 0.601 Max BC CSI: 0.563 Max Web CSI: 0.856  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 898 - / - /583 /25 /203 I 784 - / - /452 /27 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) I Brg Wid = 11.3 Min Req = 1.5 (Truss) Bearings B & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 311 -1231 D - E 205 -503 C - D 210 -560

#### Lumber

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

#### Wind

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

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	1020 -391	H - G	1016 -392

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	307 -697	E - F	287 -751
G - E	599 -190		



COA #0278

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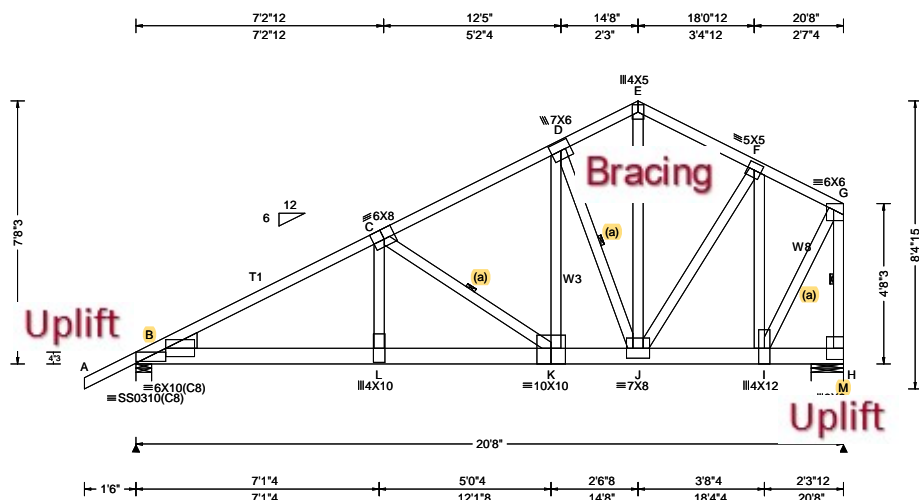
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62611 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B07	Cust: R215 JRef: 1XeT2150011 T6 / DrwNo: 108.22.1559.06631 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.149 L 999 240 VERT(CL): 0.297 L 829 180 HORZ(LL): 0.037 C - - HORZ(TL): 0.074 C - - Creep Factor: 2.0 Max TC CSI: 0.493 Max BC CSI: 0.682 Max Web CSI: 0.917 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 6008 -/- /- /- /1036 -/ M 7288 -/- /- /- /1129 -/ Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 2.5 (Truss) M Brg Wid = 11.3 Min Req = 3.0 (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 1077 -6324 E - F 461 -2743 C - D 677 -3928 F - G 271 -1741 D - E 454 -2725

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Nailnote

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

#### Special Loads

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

TC: From 62 plf at -1.50 to 62 plf at 7.12  
TC: From 31 plf at 7.12 to 31 plf at 16.27  
TC: From 62 plf at 16.27 to 62 plf at 20.67  
BC: From 20 plf at 0.00 to 20 plf at 7.13  
BC: From 10 plf at 7.13 to 10 plf at 18.27  
BC: From 20 plf at 18.27 to 20 plf at 20.67  
BC: 3154 lb Conc. Load at 7.13  
BC: 1433 lb Conc. Load at 8.27, 10.27  
BC: 1476 lb Conc. Load at 12.27, 14.27  
BC: 1463 lb Conc. Load at 16.27, 18.27

#### 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.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	5610 -947	K - J	3384 -578
L - K	5556 -938	J - I	1613 -252

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - C	2407 -365	J - F	1572 -291
C - K	419 -2537	F - I	364 -1843
K - D	3000 -539	I - G	3239 -499
D - J	487 -2662	G - H	572 -3668
E - J	2333 -377		



COA #0278

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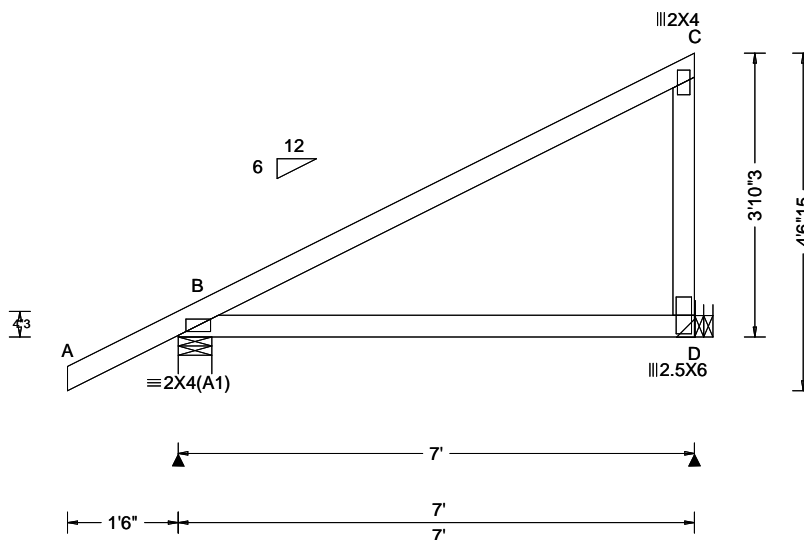
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62153 / FROM:	MONO Ply: 1 Qty: 15	Job Number: 22-7310 Parnell Truss Label: B08	Cust: R 215 JRef: 1XeT2150011 T10 / DrwNo: 108.22.1559.07351 AK / FV 04/18/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity			
TCDL:	10.00	Speed:	130 mph	Pf: NA		Ce: NA	VERT(LL):	NA		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	NA		B	400	/-	/-	/278	/6	/104
BCDL:	10.00	Risk Category:	II	Snow Duration: NA			HORZ(LL):	0.013	B - -	D	270	/-	/-	/190	/37	/-
Des Ld:	40.00	EXP: C	Kzt: NA				HORZ(TL):	0.025	B - -	Wind reactions based on MWFRS						
NCBCLL:	10.00	Mean Height:	15.00 ft			Building Code:	Creep Factor:	2.0		B	Brg Wid = 5.5	Min Req = 1.5 (Truss)				
Soffit:	0.00	TCDL:	5.0 psf			FBC 7th Ed. 2020 Res.	Max TC CSI:	0.644		D	Brg Wid = -	Min Req = -				
Load Duration:	1.25	BCDL:	5.0 psf			TPI Std: 2014	Max BC CSI:	0.468		Bearing B is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	h to 2h			Rep Fac: Yes	Max Web CSI:	0.259		Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft			FT/RT:20(0)/10(0)										
		Loc. from endwall:	not in 9.00 ft			Plate Type(s):										
		GCpi:	0.18													
		Wind Duration:	1.60			WAVE										
									VIEW Ver: 21.02.00.1005.17							

#### Lumber

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

#### Hangers / Ties

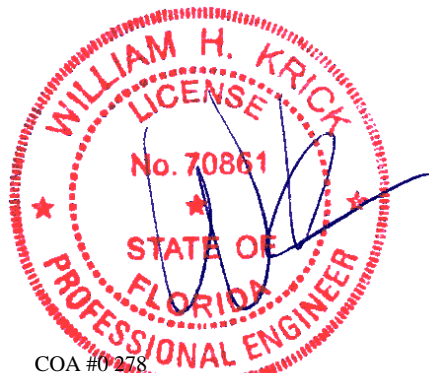
(J) Hanger Support Required, by others  
(H2) = (J) Special hanger required (2)2x4 SP #2 supporting member.

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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04/18/2022  
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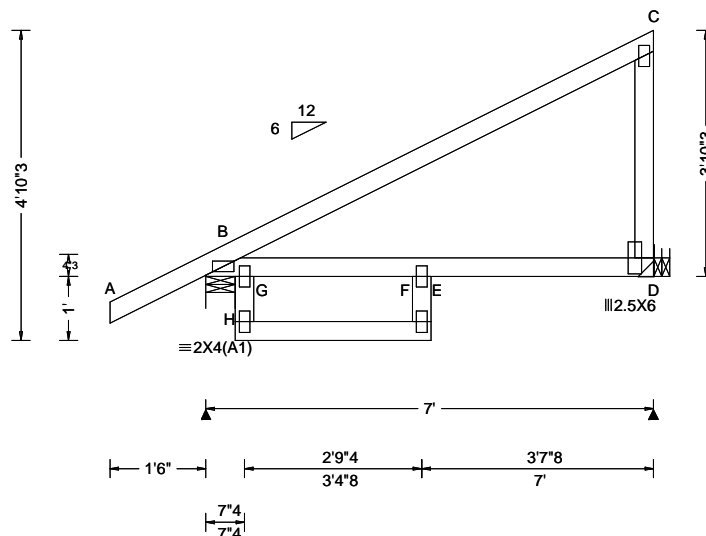
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62157 / FROM:	MONO Ply: 1 Qty: 3	Job Number: 22-7310 Parnell Truss Label: B09	Cust: R 215 JRef: 1XeT2150011 T72 / DrwNo: 108.22.1559.06615 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.086 E 953 240 VERT(CL): 0.200 E 410 180 HORZ(LL): -0.023 H - - HORZ(TL): 0.053 H - - Creep Factor: 2.0 Max TC CSI: 0.631 Max BC CSI: 0.489 Max Web CSI: 0.258  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 400 /- /- /278 /6 /104 D 270 /- /- /190 /37 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

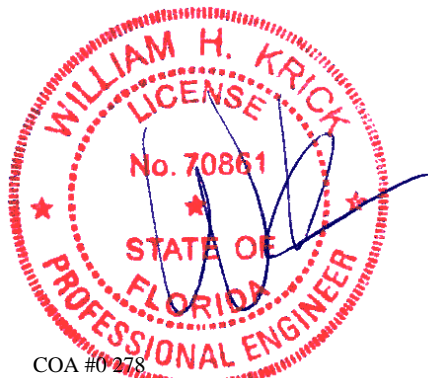
#### Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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

04/18/2022  
Florida Certificate of Product Approval #FL 1999

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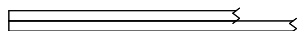
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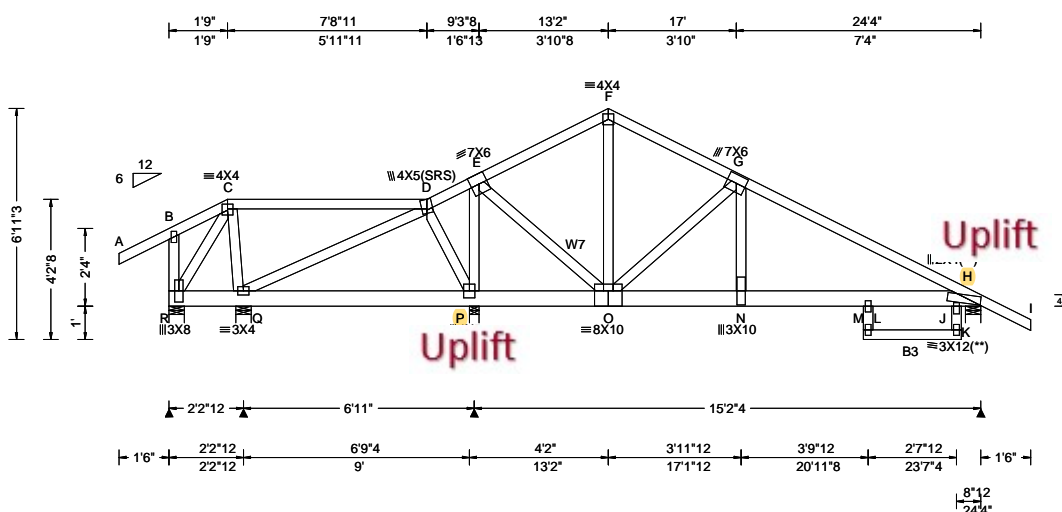


155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62609 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B10	Cust: R 215 JRef: 1XeT2150011 T11 / DrwNo: 108.22.1559.07164 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.073 N 999 240 VERT(CL): 0.147 N 999 180 HORZ(LL): 0.021 J - - HORZ(TL): 0.041 J - - Creep Factor: 2.0 Max TC CSI: 0.666 Max BC CSI: 0.397 Max Web CSI: 0.895 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R - /-347 /- /- /33 /- Q - /-274 /- /65 /- /- P 8058 /- /- /- /1345 /- H 3494 /- /- /- /615 /- Wind reactions based on MWFRS R Brg Wid = 5.5 Min Req = 1.5 Q Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 3.5 Min Req = 3.0 (Truss) H Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings R, Q, P, & H are a rigid surface. Members not listed have forces less than 375#

**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x6 SP 2400f-2.0E; B3 2x4 SP #2;  
Webs: 2x4 SP #3; W7 2x4 SP #2;

**Nailnote**  
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 4.25" o.c.  
Webs: 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 25.83  
BC: From 20 plf at 0.00 to 20 plf at 24.33  
TC: 6 lb Conc. Load at 1.78  
BC: 38 lb Conc. Load at 1.78  
BC: 1476 lb Conc. Load at 10.06, 12.06  
BC: 1433 lb Conc. Load at 14.06, 16.06  
BC: 3137 lb Conc. Load at 17.21

**Plating Notes**  
All plates are 2X4 except as noted.  
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

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

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

Maximum Top Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
D - E	1064 -183	F - G	288 -1586	
E - F	286 -1582	G - H	600 -3482	

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
Q - P	148 -953	N - L	3072 -521	
P - O	121 -739	L - K	3069 -520	
O - N	3023 -514	H - K	521 -3072	

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
Q - D	825 -130	F - O	1294 -203	
P - E	575 -3184	O - G	364 -2218	
E - O	2866 -495	G - N	2183 -318	



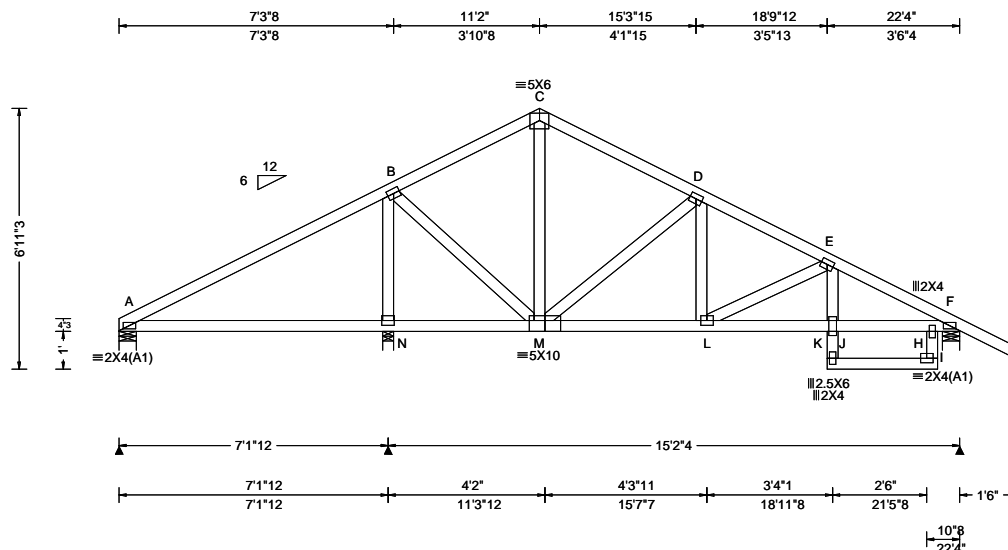
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04/18/2022  
Florida Certificate of Product Approval #FL 1999

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

SEQN: 62159 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B11	Cust: R 215 JRef: 1XeT2150011 T31 / DrwNo: 108.22.1559.05740 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 L 999 240 VERT(CL): 0.037 A 999 180 HORZ(LL): 0.011 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.549 Max BC CSI: 0.429 Max Web CSI: 0.267 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL A 311 -/- /- /168 /27 /167 N 955 -/- /- /531 -/- /- F 714 -/- /- /466 /37 -/- Non-Gravity A Brg Wid = 5.5 Min Req = 1.5 (Truss) N Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings A, N, & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 238 -409 D - E 274 -776 C - D 222 -395 E - F 287 -984

#### Lumber

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

#### Plating Notes

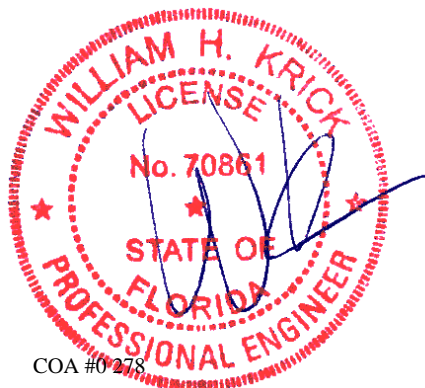
All plates are 3X4 except as noted.

#### Wind

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

Wind loading based on both gable and hip roof types.

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

04/18/2022  
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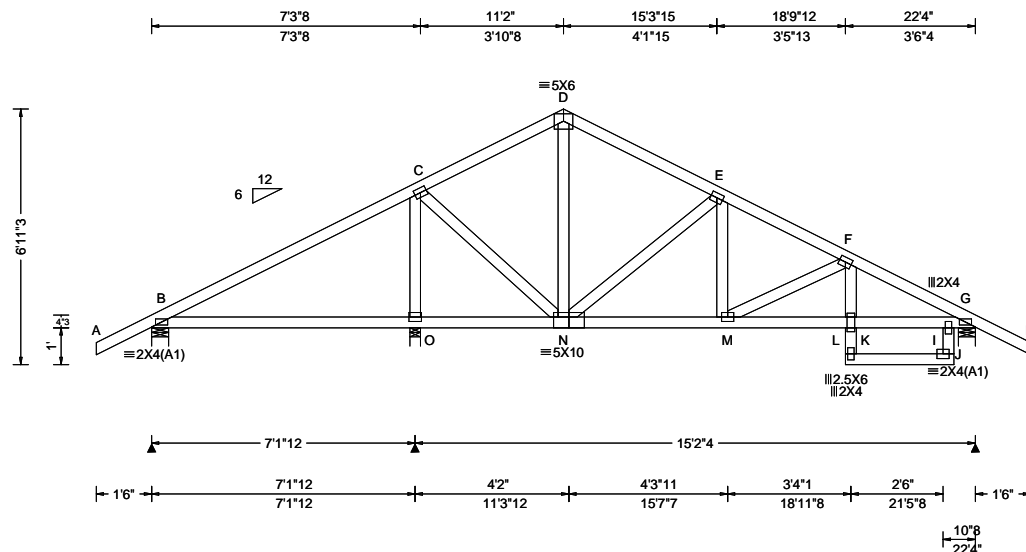
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62161 / FROM:	COMN	Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: B12	Cust: R 215 JRef: 1XeT2150011 T82 / DrwNo: 108.22.1559.05944 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 M 999 240 VERT(CL): 0.037 M 999 180 HORZ(LL): 0.009 L - - HORZ(TL): 0.019 B - - Creep Factor: 2.0 Max TC CSI: 0.512 Max BC CSI: 0.420 Max Web CSI: 0.266 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 400 - / - / - /245 /38 /182 O 968 - / - / - /542 /1 - /- G 706 - / - / - /466 /34 - /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B, O, & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

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

#### Plating Notes

All plates are 3X4 except as noted.

#### Wind

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

Wind loading based on both gable and hip roof types.

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

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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	631 -85	K - J	823 -159
M - K	820 -162	J - G	821 -161

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
O - C	287 -802	N - E	192 -455
C - N	462 -32		

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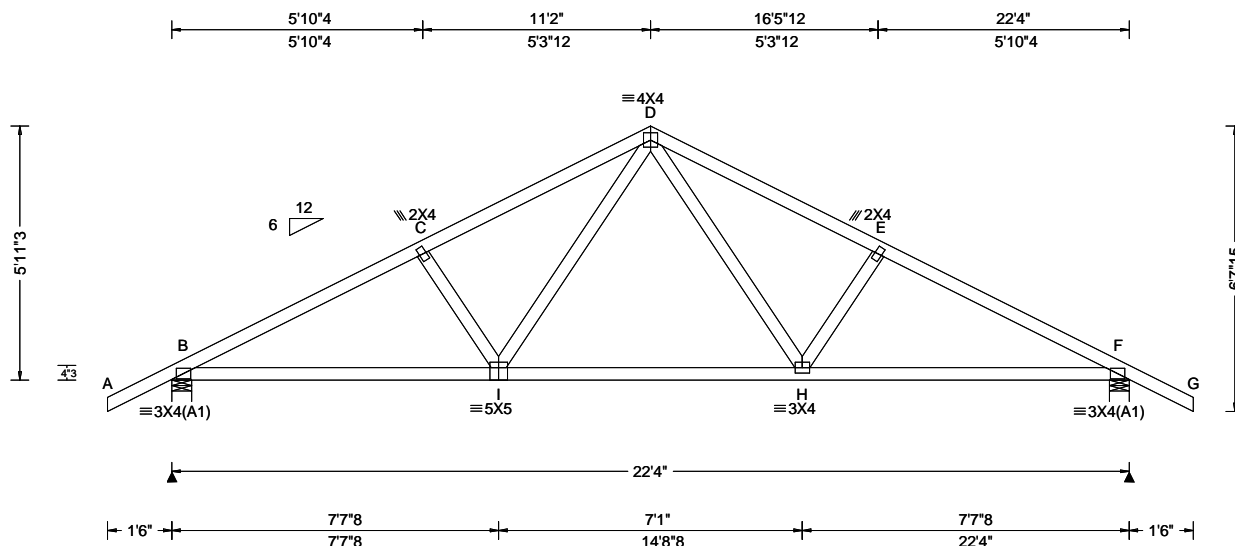
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 428128 FROM:	COMN Ply: 1 Qty: 5	Job Number: 22-7310 Parnell Truss Label: B13	Cust: R 215 JRef: 1XeT2150011 T30 DrwNo: 108.22.1608.59010 SSB / WHK 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.058 H 999 240 VERT(CL): 0.112 H 999 180 HORZ(LL): 0.023 F - - HORZ(TL): 0.044 F - - Creep Factor: 2.0 Max TC CSI: 0.291 Max BC CSI: 0.572 Max Web CSI: 0.205 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1055 - / - /615 /25 /182 F 1055 - / - /615 /25 - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 F Brg Wid = 5.5 Min Req = 1.5 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 442 -1637 D - E 447 -1461 C - D 448 -1460 E - F 441 -1638

#### Lumber

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

#### 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.

#### Additional Notes

The overall height of this truss excluding overhang is 5-11-3.



COA #0218

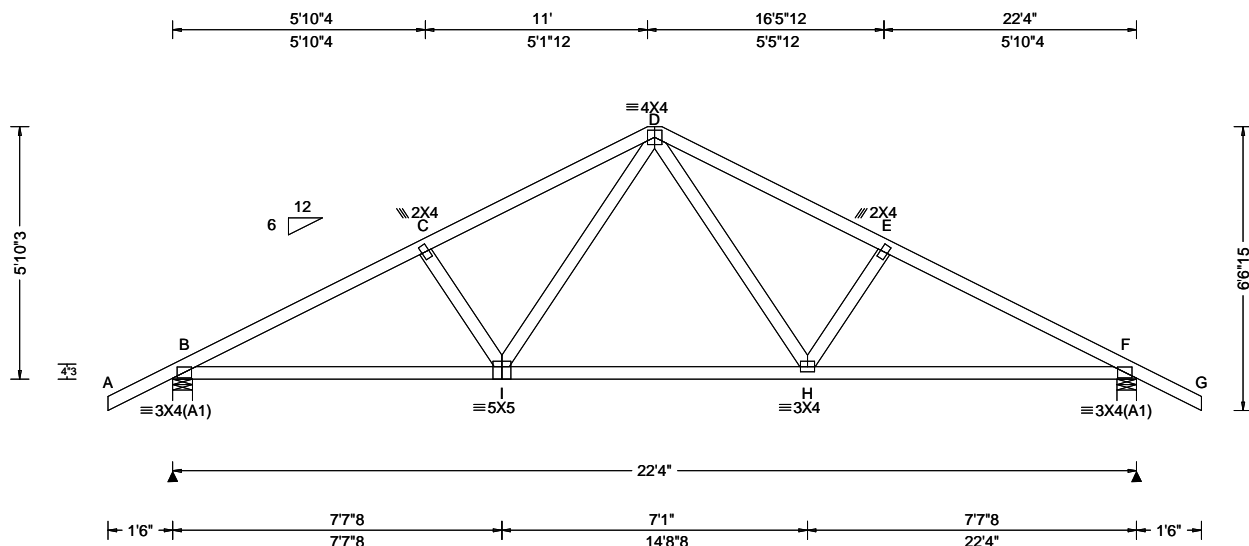
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 428131 FROM:	HIPS Qty: 1	Job Number: 22-7310 Parnell Truss Label: B14	Cust: R 215 JRef: 1XeT2150011 T14 DrwNo: 108.22.1609.01940 SSB / WHK 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.051 H 999 240 VERT(CL): 0.102 H 999 180 HORZ(LL): 0.020 F - - HORZ(TL): 0.041 F - - Creep Factor: 2.0 Max TC CSI: 0.301 Max BC CSI: 0.572 Max Web CSI: 0.185 VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1013 - / - / /615 /179 /180 F 1013 - / - / /615 /179 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 F Brg Wid = 5.5 Min Req = 1.5 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 434 - 1538 D - E 440 - 1361 C - D 440 - 1360 E - F 434 - 1538

#### Lumber

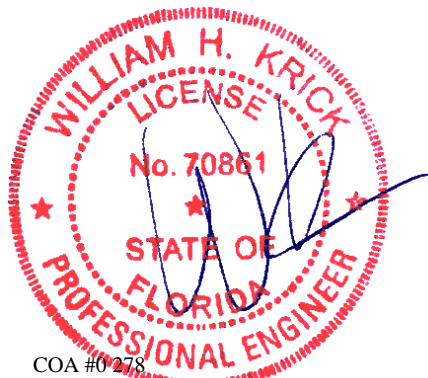
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Wind

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

#### Additional Notes

The overall height of this truss excluding overhang is 5-10-3.



COA #0278

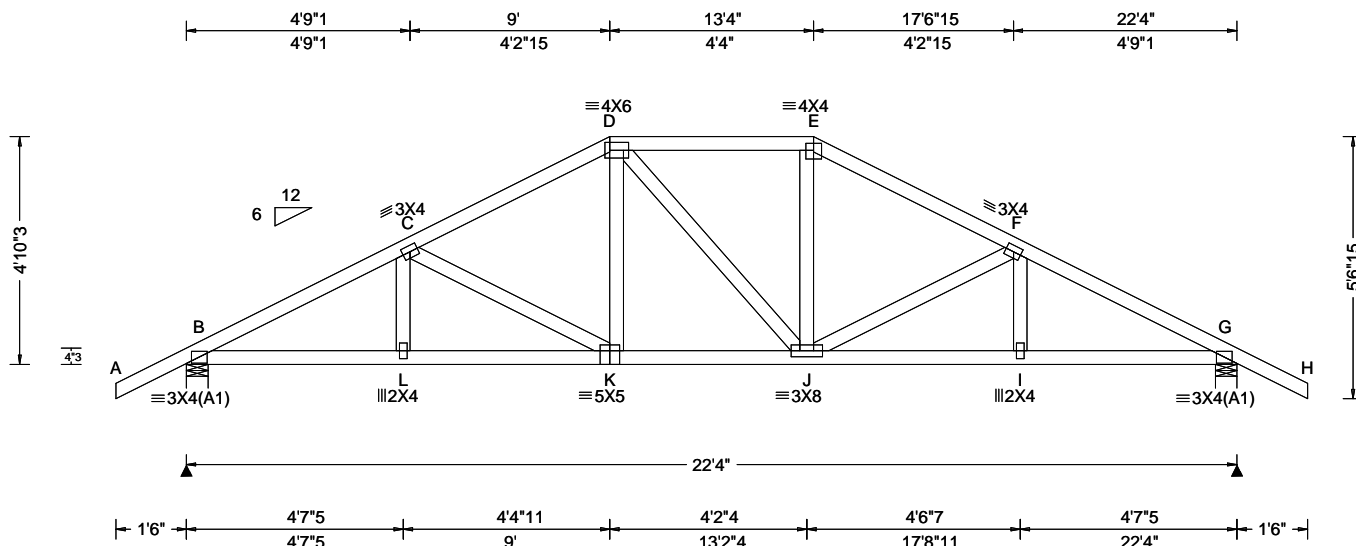
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62172 / FROM:	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B15	Cust: R 215 JRef: 1XeT2150011 T13 / DrwNo: 108.22.1559.06475 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.053 K 999 240 VERT(CL): 0.106 K 999 180 HORZ(LL): 0.023 G - - HORZ(TL): 0.046 G - - Creep Factor: 2.0 Max TC CSI: 0.232 Max BC CSI: 0.411 Max Web CSI: 0.175 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1013 - / - / /615 /185 /154 G 1013 - / - / /615 /185 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 605 -1593 E - F 571 -1243 C - D 573 -1249 F - G 605 -1593 D - E 558 -1067

#### Lumber

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

#### 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.



COA #0278

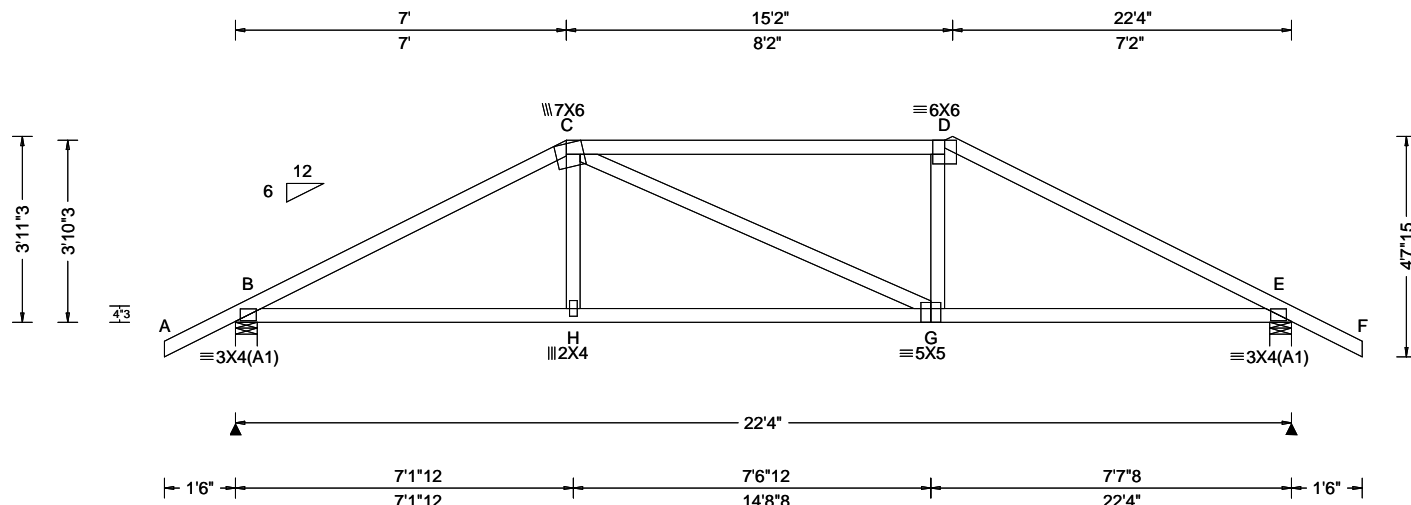
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62200 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B16	Cust: R 215 JRef: 1XeT2150011 T12 / DrwNo: 108.22.1559.07710 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.049 G 999 240 VERT(CL): 0.098 G 999 180 HORZ(LL): 0.022 E - - HORZ(TL): 0.044 E - - Creep Factor: 2.0 Max TC CSI: 0.699 Max BC CSI: 0.598 Max Web CSI: 0.136 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1013 - / - / - /607 /188 /131 E 1013 - / - / - /608 /186 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 764 - 1515 D - E 760 - 1517 C - D 753 - 1302

#### Lumber

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

#### 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.



COA #0278

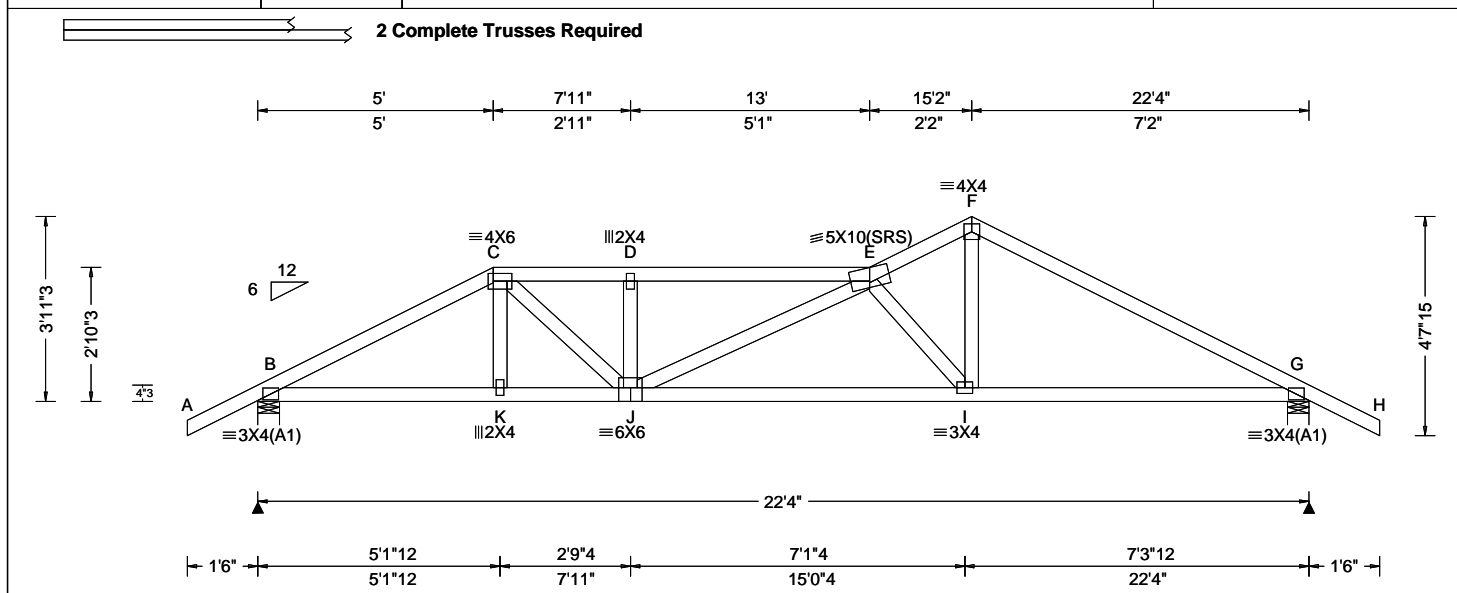
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62191 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B17	Cust: R 215 JRef: 1XeT2150011 T60 / DrwNo: 108.22.1559.05555 SSB / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCDL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.081 D 999 240 VERT(CL): 0.161 D 999 180 HORZ(LL): 0.024 G - - HORZ(TL): 0.048 G - - Creep Factor: 2.0 Max TC CSI: 0.315 Max BC CSI: 0.492 Max Web CSI: 0.327 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1825 - / - / - / 361 - / - G 1412 - / - / - / 274 - / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 313 - 1637 E - F 206 - 1164 C - D 371 - 2015 F - G 218 - 1173 D - E 371 - 2015

#### Lumber

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

#### Nailnote

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

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 5.00  
TC: From 31 plf at 5.00 to 31 plf at 7.94  
TC: From 62 plf at 7.94 to 62 plf at 23.83  
BC: From 20 plf at 0.00 to 20 plf at 5.06  
BC: From 10 plf at 5.06 to 10 plf at 7.94  
BC: From 20 plf at 7.94 to 20 plf at 22.33  
TC: 128 lb Conc. Load at 5.06, 7.06  
BC: 90 lb Conc. Load at 5.06, 7.06  
BC: 896 lb Conc. Load at 7.94

#### Purlins

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

#### Wind

Wind loads and reactions based on MWFRS.  
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.



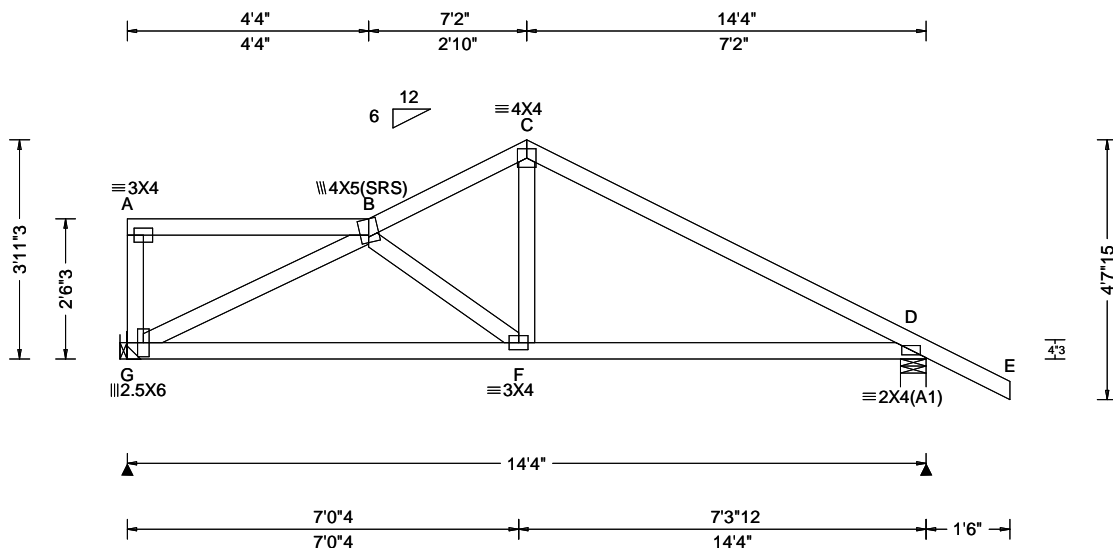
COA #0278

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

SEQN: 62183 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B18	Cust: R 215 JRef: 1XeT2150011 T61 / DrwNo: 108.22.1559.06521 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.017 B 999 240 VERT(CL): 0.034 B 999 180 HORZ(LL): 0.008 D - - HORZ(TL): 0.016 D - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.549 Max Web CSI: 0.386 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 578 - / - / - /302 /108 /106 D 696 - / - / - /439 /123 - Wind reactions based on MWFRS G Brg Wid = - Min Req = - D Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearing D is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 400 -739 C - D 362 -806 <b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. G - F 767 -339 F - D 641 -182 <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. G - B 529 -845

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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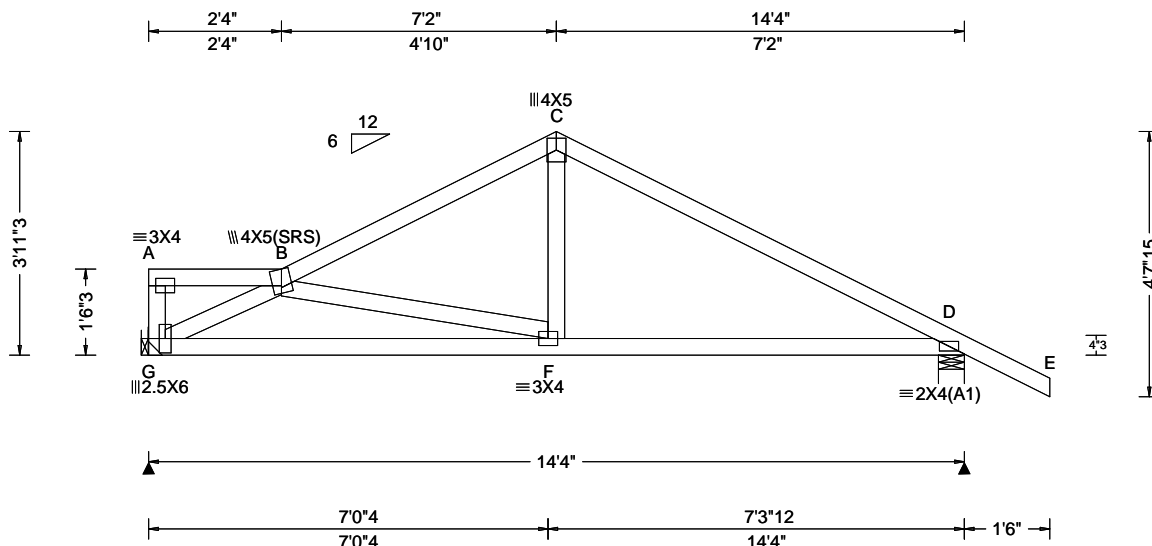
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62592 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B19	Cust: R 215 JRef: 1XeT2150011 T59 / DrwNo: 108.22.1559.07522 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.017 F 999 240 VERT(CL): 0.035 F 999 180 HORZ(LL): 0.009 D - - HORZ(TL): 0.017 D - - Creep Factor: 2.0 Max TC CSI: 0.475 Max BC CSI: 0.558 Max Web CSI: 0.207 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 578 - / - /306 /101 /106 D 696 - / - /340 /127 - Wind reactions based on MWFRS G Brg Wid = - Min Req = - D Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearing D is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 359 -782 C - D 342 -812

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

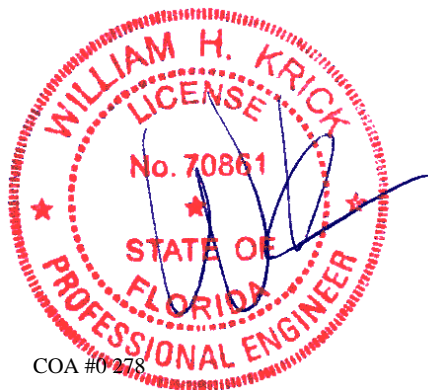
In lieu of structural panels use purlins to brace all flat  
TC @ 24" oc.

#### Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
G - F	877 -388	F - D	648 -147

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
G - B	552 -974

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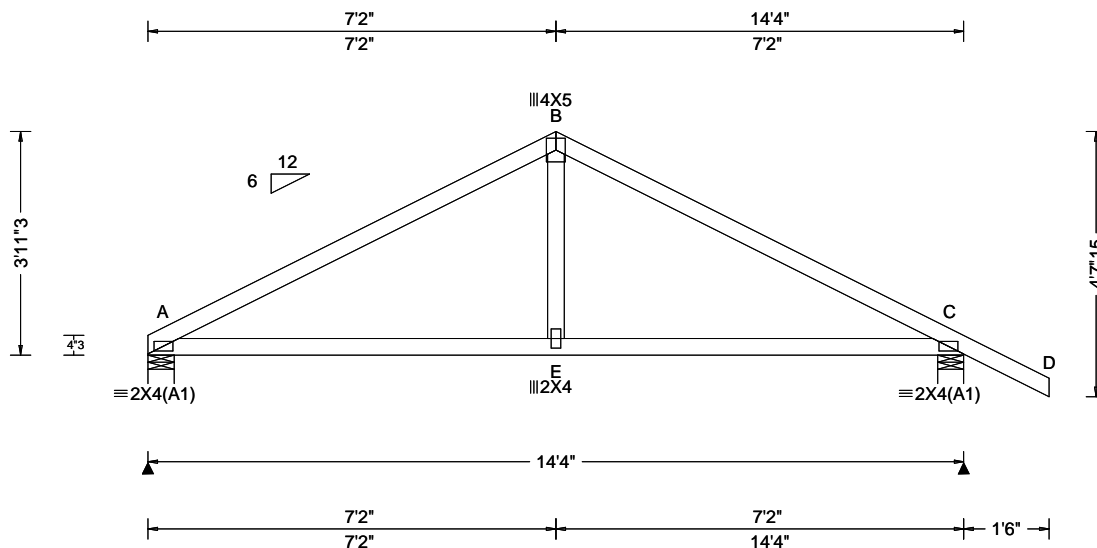
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62176 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B20	Cust: R 215 JRef: 1XeT2150011 T53 / DrwNo: 108.22.1559.06693 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.014 A 999 240 VERT(CL): 0.028 A 999 180 HORZ(LL): 0.009 A - - HORZ(TL): 0.017 A - - Creep Factor: 2.0 Max TC CSI: 0.533 Max BC CSI: 0.513 Max Web CSI: 0.123  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 584 -/- /- /340 /98 /116 C 690 -/- /- /427 /128 -/ Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings A & C are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 464 -818 B - C 462 -821

#### Lumber

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

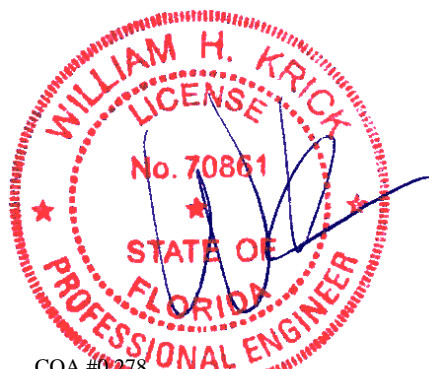
#### Wind

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

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - E	660 -226	E - C	660 -226



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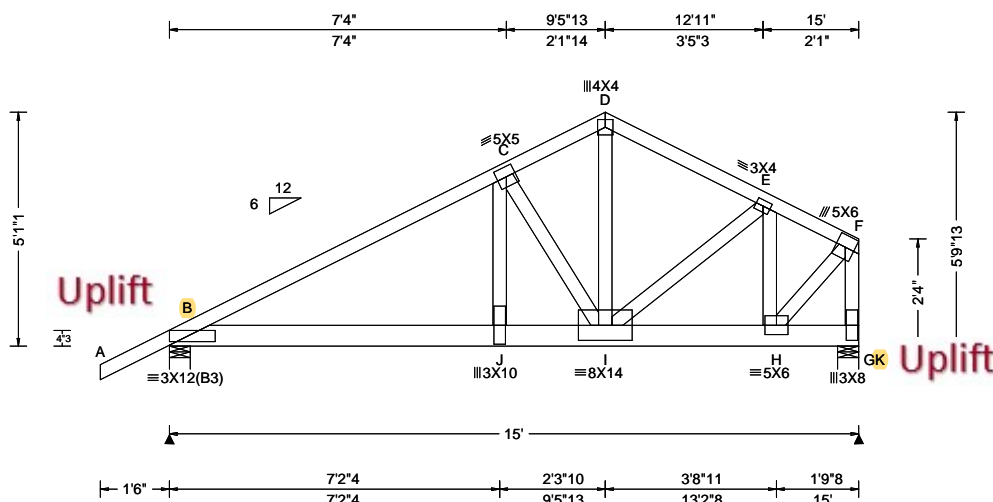
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Glenview, IL 60025





SEQN: 88499 / FROM:	SPEC Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B22	Cust: R 215 JRef: 1XeT2150011 T73 / DrwNo: 108.22.1559.06287 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.065 J 999 240 VERT(CL): 0.130 J 999 180 HORZ(LL): 0.012 G - - HORZ(TL): 0.024 G - - Creep Factor: 2.0 Max TC CSI: 0.664 Max BC CSI: 0.270 Max Web CSI: 0.856 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 3390 -/- /- /- /594 -/ K 4767 -/- /- /- /836 -/ Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 5.5 Min Req = 2.0 (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 565 -3301 D - E 405 -2328 C - D 409 -2334 E - F 303 -1721

#### Lumber

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

#### Nailnote

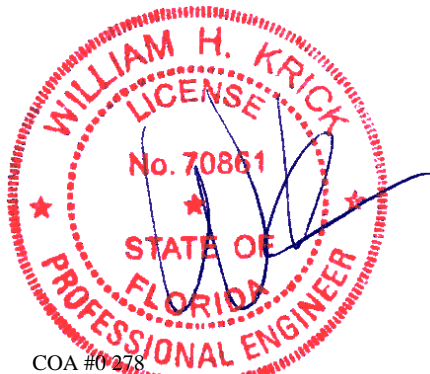
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 3.25" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 7.06  
TC: From 31 plf at 7.06 to 31 plf at 15.00  
BC: From 20 plf at 0.00 to 20 plf at 7.06  
BC: From 10 plf at 7.06 to 10 plf at 15.00  
BC: 3186 lb Conc. Load at 7.06  
BC: 1323 lb Conc. Load at 9.06, 11.06, 13.06

#### 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.



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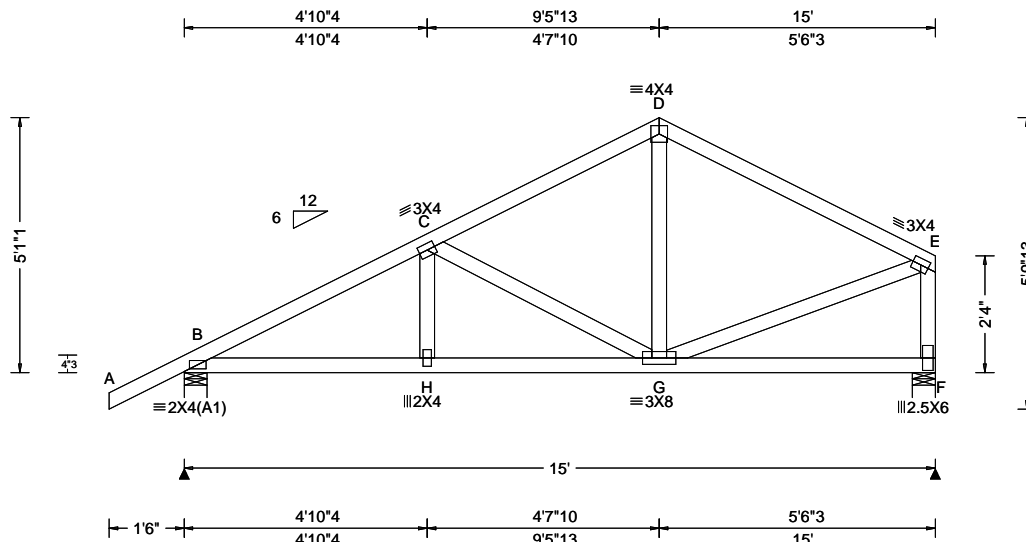
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62240 / FROM:	SPEC Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: B23	Cust: R 215 JRef: 1XeT2150011 T29 / DrwNo: 108.22.1559.07537 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.020 H 999 240 VERT(CL): 0.039 H 999 180 HORZ(LL): 0.006 F - - HORZ(TL): 0.012 F - - Creep Factor: 2.0 Max TC CSI: 0.402 Max BC CSI: 0.351 Max Web CSI: 0.204 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 723 -/- /- /462 /129 /136 F 606 -/- /- /321 /106 -/ Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 348 -977 D - E 258 -603 C - D 287 -596

#### Lumber

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

#### Wind

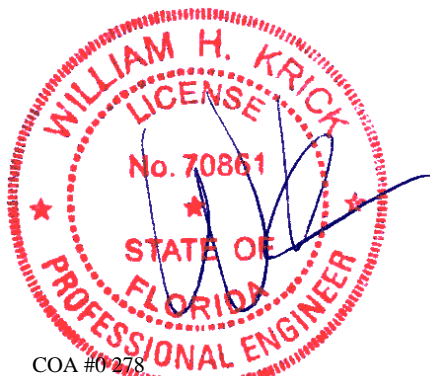
Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	820 -317	H - G	822 -316

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - G	198 -386	E - F	260 -559
G - E	490 -151		



COA #0278

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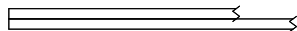
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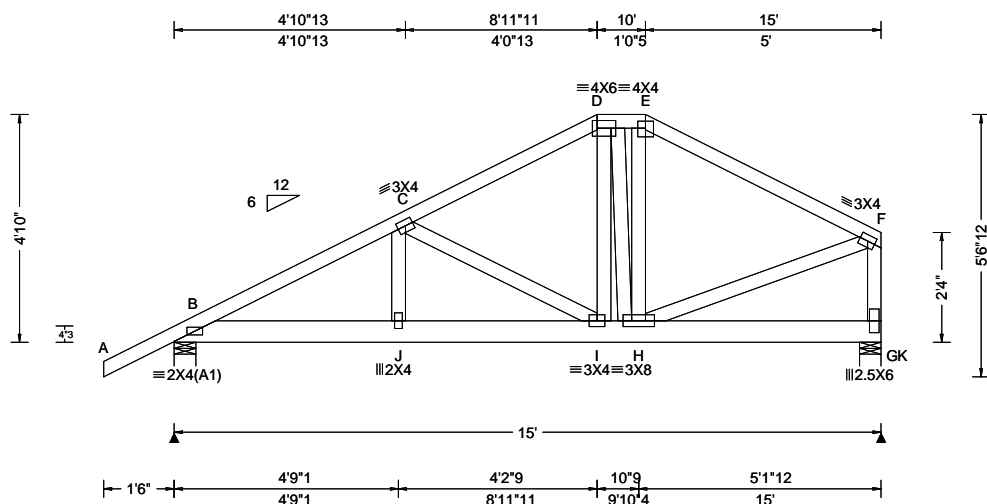
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62596 / FROM:	HIPS Qty: 1	Ply: 2	Job Number: 22-7310 Parnell Truss Label: B24	Cust: R 215 JRef: 1XeT2150011 T97 / DrwNo: 108.22.1559.06334 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.017 J 999 240 VERT(CL): 0.034 J 999 180 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.203 Max BC CSI: 0.097 Max Web CSI: 0.255 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1167 -/- /- /- /229 -/ K 1290 -/- /- /- /219 -/ Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 180 -984 D - E 108 -637 C - D 143 -770 E - F 134 -741

#### Lumber

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

#### Nailnote

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

#### Special Loads

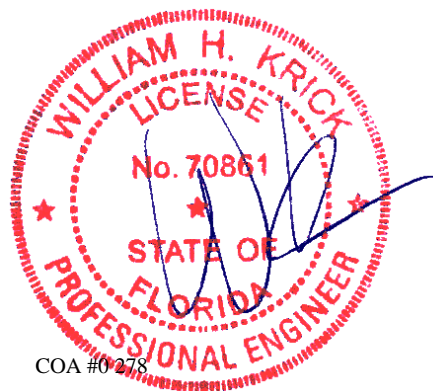
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 8.97  
TC: From 31 plf at 8.97 to 31 plf at 10.00  
TC: From 62 plf at 10.00 to 62 plf at 15.00  
BC: From 20 plf at 0.00 to 20 plf at 8.46  
BC: From 10 plf at 8.46 to 10 plf at 9.97  
BC: From 20 plf at 9.97 to 20 plf at 15.00  
TC: 251 lb Conc. Load at 9.97  
BC: 626 lb Conc. Load at 8.46  
BC: 298 lb Conc. Load at 9.97

#### Purlins

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

#### Wind

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



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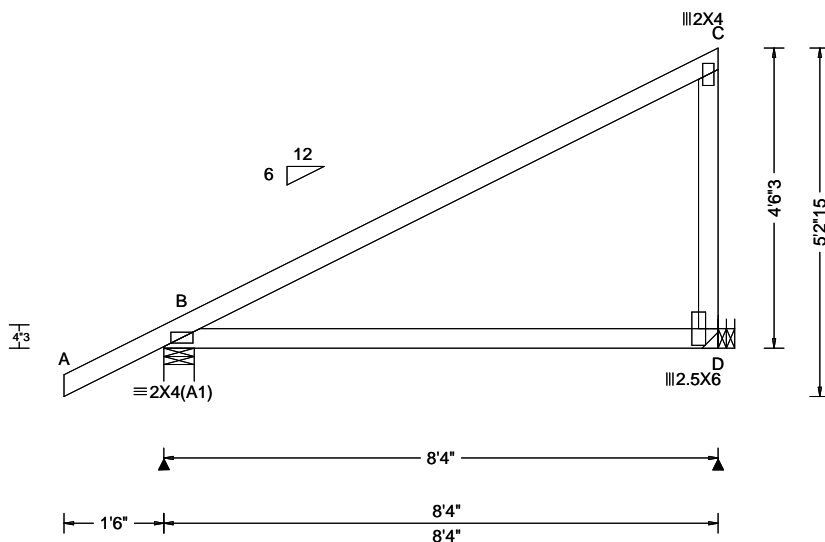
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SEQN: 62231 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B25	Cust: R 215 JRef: 1XeT2150011 T71 / DrwNo: 108.22.1559.07756 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.022 B - - HORZ(TL): 0.043 B - - Creep Factor: 2.0 Max TC CSI: 0.436 Max BC CSI: 0.700 Max Web CSI: 0.085 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 453 - / - /311 /50 /168 D 327 - / - /231 /92 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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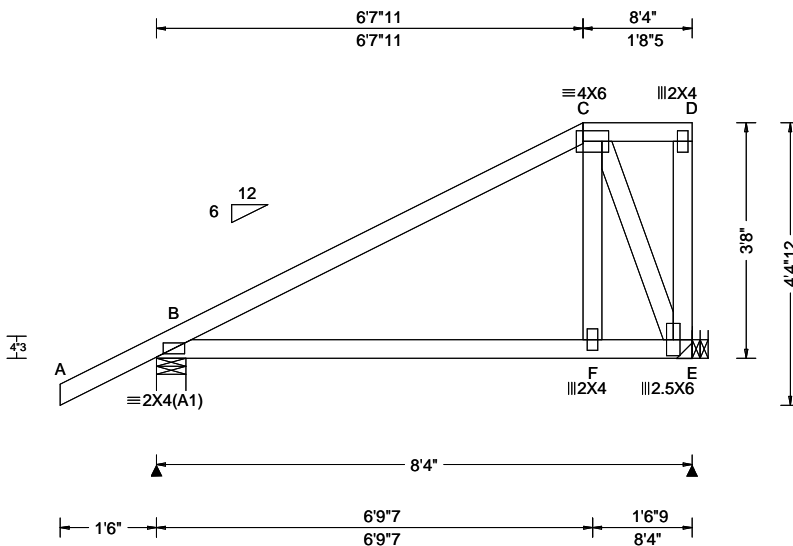
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SEQN: 62228 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B26	Cust: R 215 JRef: 1XeT2150011 T70 / DrwNo: 108.22.1559.07444 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.015 B 999 240 VERT(CL): 0.030 B 999 180 HORZ(LL): 0.010 B - - HORZ(TL): 0.019 B - - Creep Factor: 2.0 Max TC CSI: 0.606 Max BC CSI: 0.425 Max Web CSI: 0.109  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 453 - / - /314 /64 /138 E 327 - / - /204 /81 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. C - E 251 -377

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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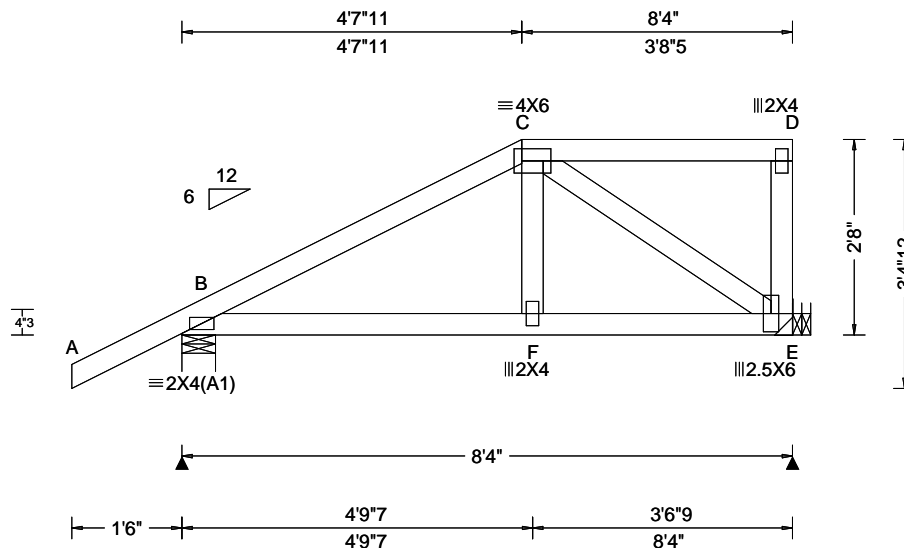
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Glenview, IL 60025



SEQN: 62226 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B27	Cust: R215 JRef: 1XeT2150011 T43 / DrwNo: 108.22.1559.06490 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 F 999 240 VERT(CL): 0.007 B 999 180 HORZ(LL): 0.002 B - - HORZ(TL): 0.004 B - - Creep Factor: 2.0 Max TC CSI: 0.309 Max BC CSI: 0.191 Max Web CSI: 0.119  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 453 - / - / 309 / 77 / 103 E 327 - / - / 181 / 70 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 263 -386

#### Lumber

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

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Purlins

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

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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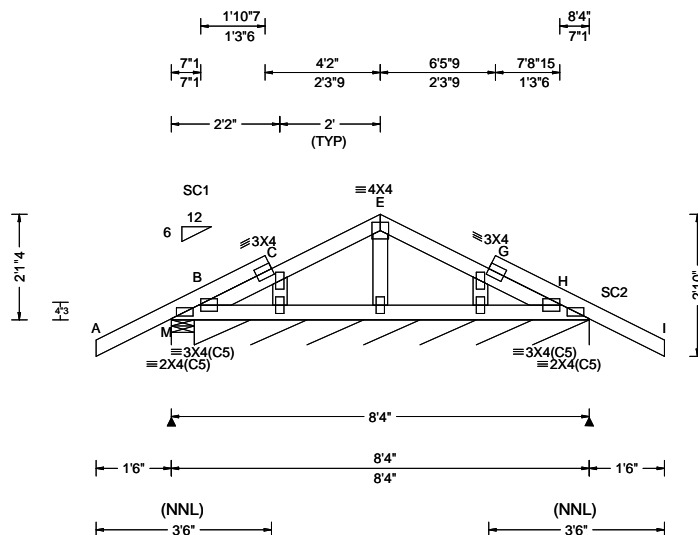
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SEQN: 62202 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B28	Cust: R 215 JRef: 1XeT2150011 T24 / DrwNo: 108.22.1559.05553 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 E 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.234 Max BC CSI: 0.027 Max Web CSI: 0.022  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M 236 - / - /176 /54 /89 H* 81 - / - /49 /13 - Wind reactions based on MWFRS M Brg Wid = 5.5 Min Req = 1.5 (Truss) H Brg Wid = 94.5 Min Req = - Bearings M & B are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Purlins

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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



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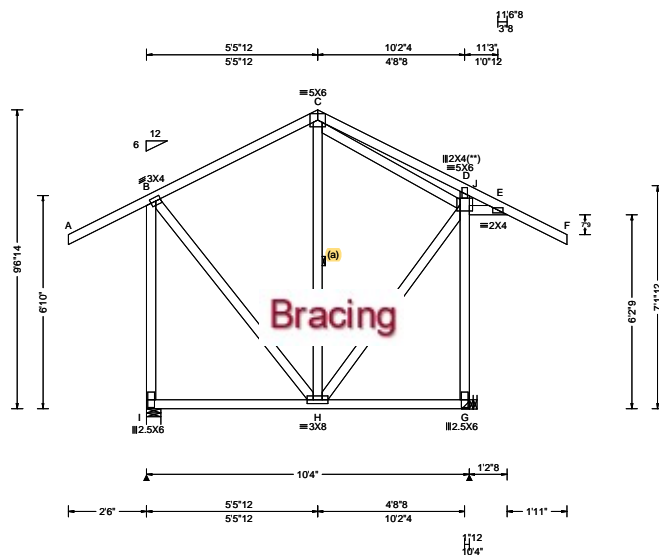
<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;	<b>Wind</b> Wind loads and reactions based on MWFRS. Left end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table><tr><th>Chords</th><th>Tens.</th><th>Comp.</th></tr><tr><td>I - H</td><td>876</td><td>- 99</td></tr></table>	Chords	Tens.	Comp.	I - H	876	- 99																								
Chords	Tens.	Comp.																														
I - H	876	- 99																														
<b>Bracing</b> (a) Continuous lateral restraint equally spaced on member.		<b>Maximum Web Forces Per Ply (lbs)</b> <table><tr><th>Webs</th><th>Tens.</th><th>Comp.</th><th>Webs</th><th>Tens.</th><th>Comp.</th></tr><tr><td>A - J</td><td>188</td><td>- 1618</td><td>C - H</td><td>10</td><td>- 523</td></tr><tr><td>A - I</td><td>1457</td><td>- 159</td><td>C - K</td><td>208</td><td>- 1065</td></tr><tr><td>B - I</td><td>828</td><td>- 58</td><td>H - K</td><td>1801</td><td>- 209</td></tr><tr><td>I - C</td><td>632</td><td>- 33</td><td>K - G</td><td>323</td><td>- 2252</td></tr></table>	Webs	Tens.	Comp.	Webs	Tens.	Comp.	A - J	188	- 1618	C - H	10	- 523	A - I	1457	- 159	C - K	208	- 1065	B - I	828	- 58	H - K	1801	- 209	I - C	632	- 33	K - G	323	- 2252
Webs	Tens.	Comp.	Webs	Tens.	Comp.																											
A - J	188	- 1618	C - H	10	- 523																											
A - I	1457	- 159	C - K	208	- 1065																											
B - I	828	- 58	H - K	1801	- 209																											
I - C	632	- 33	K - G	323	- 2252																											
<b>Nailnote</b> Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @ 12.00" o.c. Bot Chord: 2 Rows @ 3.50" o.c. (Each Row) Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.																																

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SEQN: 62215 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B30	Cust: R 215 JRef: 1XeT2150011 T65 / DrwNo: 108.22.1559.06898 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.58 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.016 E 856 240 VERT(CL): 0.032 E 414 180 HORZ(LL): 0.005 D - - HORZ(TL): 0.010 D - - Creep Factor: 2.0 Max TC CSI: 0.480 Max BC CSI: 0.306 Max Web CSI: 0.464  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 583 - / - / 312 / 135 / 136 G 640 - / - / 354 / 160 - Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = - Min Req = - Bearing I is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. C - D 488 -547 D - E 533 -642

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

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

#### Hangers / Ties

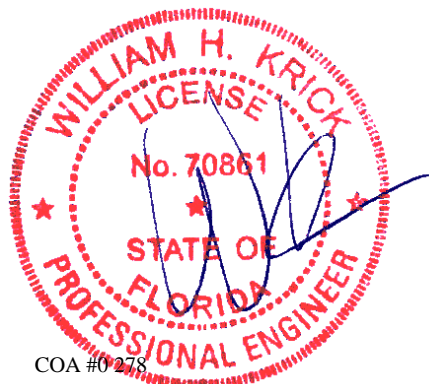
(J) Hanger Support Required, by others

#### 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.



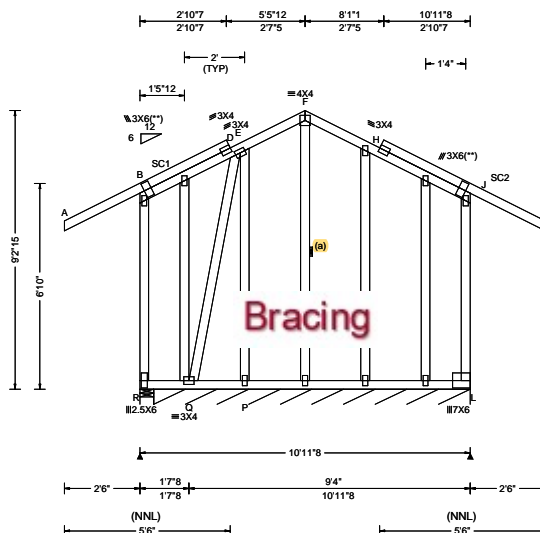
COA #0278

04/18/2022  
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62206 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: B31	Cust: R 215 JRef: 1XeT2150011 T3 / DrwNo: 108.22.1559.06523 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.42 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 J 999 240 VERT(CL): 0.005 J 999 180 HORZ(LL): -0.033 J - - HORZ(TL): 0.048 J - - Creep Factor: 2.0 Max TC CSI: 0.577 Max BC CSI: 0.032 Max Web CSI: 0.687  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 320 - / - / - /259 /130 /131 L* 85 - / - / - /54 /14 - Wind reactions based on MWFRS R Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 125 Min Req = - Bearings R & R are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Q - E 561 -561

#### Lumber

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

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Purlins

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

#### Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

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

#### Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
B - R	487 -307	J - L	416 -307
E - P	509 -509		



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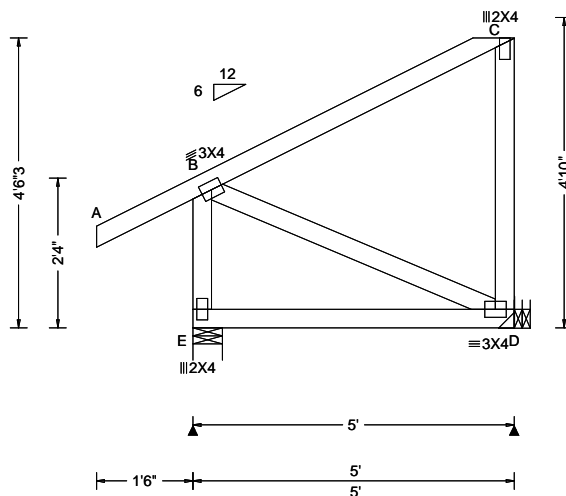
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North Building, 4th Floor  
Glenview, IL 60025



**ALPINE**  
AN ITW COMPANY

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

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.000 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.104 Max BC CSI: 0.766 Max Web CSI: 0.159 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 677 -/- /- /169 -/ D 626 -/- /- /155 -/ Wind reactions based on MWFRS E Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Nailnote

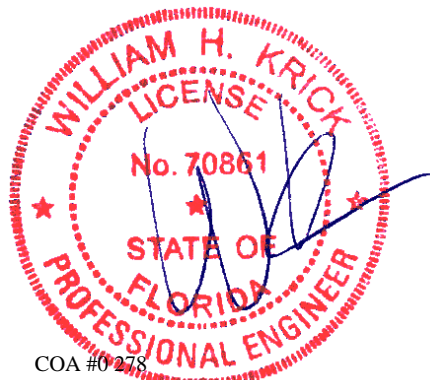
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 8.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 0.73  
TC: From 31 plf at 0.73 to 31 plf at 5.00  
BC: From 10 plf at 0.00 to 10 plf at 5.00  
BC: 327 lb Conc. Load at 0.73, 2.73, 4.73

#### Wind

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



COA #0278

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

SEQN: 88485 /	HIPM	Ply: 2	Job Number: 22-7310	Cust: R 215 JRef: 1XeT2150011 T27 /
FROM:		Qty: 1	Parnell	DrwNo: 108.22.1559.06662
Page 2 of 2			Truss Label: C02	AK / FV 04/18/2022

#### Hangers / Ties

Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

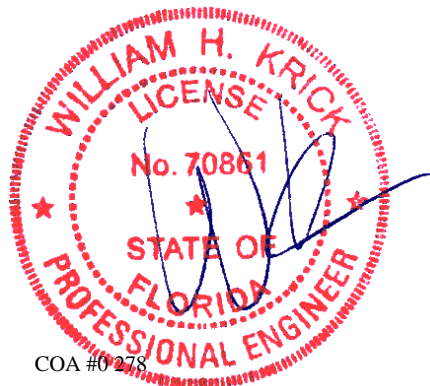
Bearing at location  $x=4'9"$  uses the following support conditions: 4'9"

Bearing D (4'9", 10') LUS26-2

Supporting Member: (2)2x6 SP 2400f-2.0E

(4) 0.148"x3" nails into supporting member,

(3) 0.148"x3" nails into supported member.



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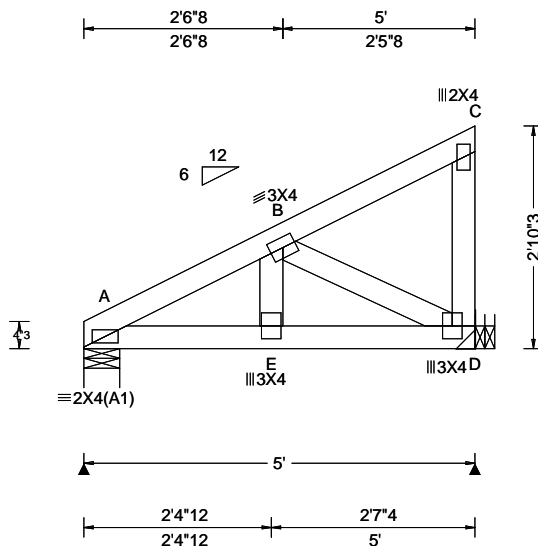
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**ALPINE**  
 AN ITW COMPANY  
 155 Harlem Ave  
 North Building, 4th Floor  
 Glenview, IL 60025

SEQN: 62186 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: C03	Cust: R 215 JRef: 1XeT2150011 T56 / DrwNo: 108.22.1559.06897 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.008 E 999 240 VERT(CL): 0.016 E 999 180 HORZ(LL): 0.002 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.095 Max BC CSI: 0.318 Max Web CSI: 0.290 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 566 -/- /- /100 -/ D 896 -/- /- /162 -/ Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - 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. A - B 182 -999

#### Lumber

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

#### Special Loads

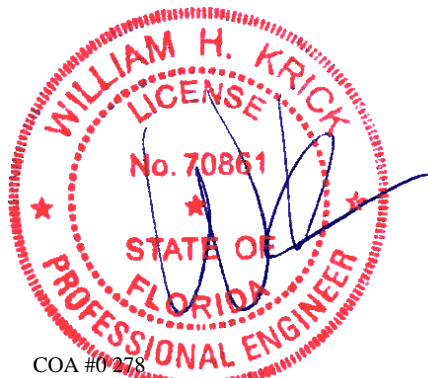
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at 0.00 to 62 plf at 2.40  
TC: From 31 plf at 2.40 to 31 plf at 5.00  
BC: From 20 plf at 0.00 to 20 plf at 2.40  
BC: From 10 plf at 2.40 to 10 plf at 5.00  
BC: 578 lb Conc. Load at 2.40, 4.40

#### Hangers / Ties

(J) Hanger Support Required, by others

#### 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.



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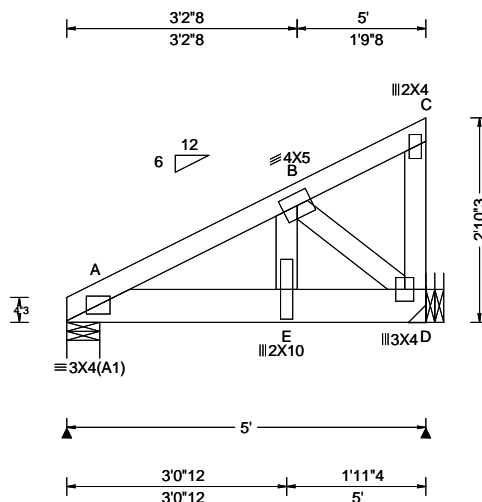
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62613 / FROM:	MONO Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: C04	Cust: R 215 JRef: 1XeT2150011 T40 / DrwNo: 108.22.1559.06584 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.010 A 999 240 VERT(CL): 0.020 A 999 180 HORZ(LL): 0.004 A - - HORZ(TL): 0.008 A - - Creep Factor: 2.0 Max TC CSI: 0.196 Max BC CSI: 0.280 Max Web CSI: 0.436 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 2352 -/- /- /- /208 -/ D 1588 -/- /- /- /140 -/ Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. A - B 96 - 1112

#### Lumber

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

#### Nailnote

Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)  
Webs: 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

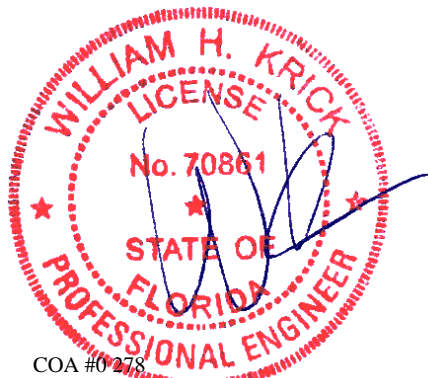
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at 0.00 to 62 plf at 5.00  
BC: From 10 plf at 0.00 to 10 plf at 5.00  
BC: 1790 lb Conc. Load at 1.06  
BC: 1788 lb Conc. Load at 3.06

#### Hangers / Ties

(J) Hanger Support Required, by others

#### 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.



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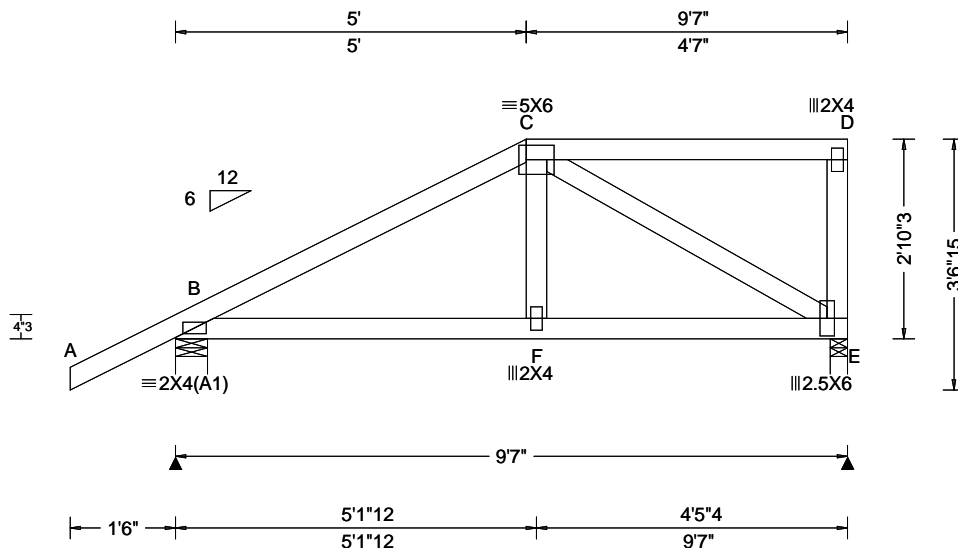
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 88538 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: D01	Cust: R 215 JRef: 1XeT2150011 T48 / DrwNo: 108.22.1559.05584 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.22 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.016 F 999 240 VERT(CL): 0.032 F 999 180 HORZ(LL): 0.006 E - - HORZ(TL): 0.013 E - - Creep Factor: 2.0 Max TC CSI: 0.702 Max BC CSI: 0.451 Max Web CSI: 0.472 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 765 -/- /- /187 -/ E 874 -/- /- /197 -/ Non-Gravity Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 3.0 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 225 - 1036

#### Lumber

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

#### Special Loads

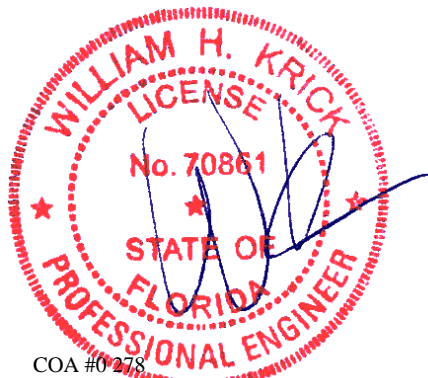
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 62 plf at -1.50 to 62 plf at 5.00  
TC: From 31 plf at 5.00 to 31 plf at 9.58  
BC: From 20 plf at 0.00 to 20 plf at 5.03  
BC: From 10 plf at 5.03 to 10 plf at 9.58  
TC: 229 lb Conc. Load at 5.03  
TC: 138 lb Conc. Load at 7.06, 9.06  
BC: 254 lb Conc. Load at 5.03  
BC: 93 lb Conc. Load at 7.06, 9.06

#### Purlins

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

#### Wind

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



COA #0278

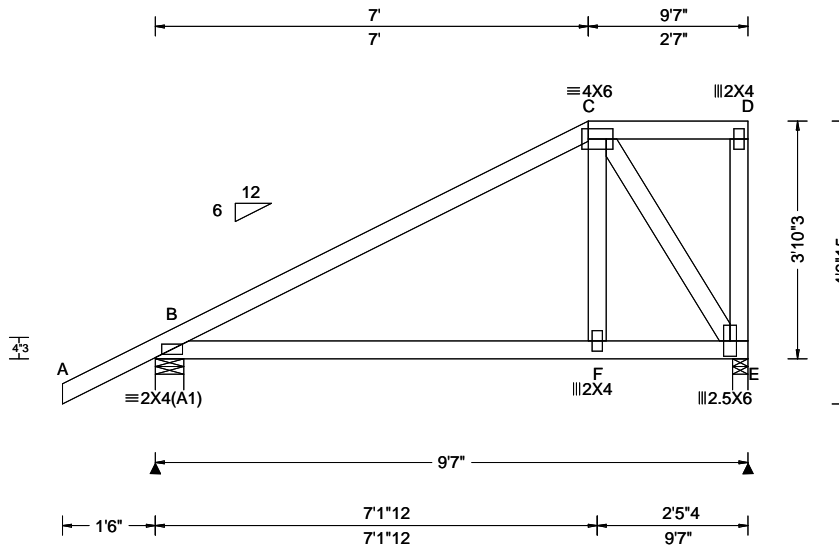
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62251 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: D02	Cust: R 215 JRef: 1XeT2150011 T94 / DrwNo: 108.22.1559.07741 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.72 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.018 B 999 240 VERT(CL): 0.036 B 999 180 HORZ(LL): 0.011 B - - HORZ(TL): 0.023 B - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.465 Max Web CSI: 0.144 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 503 - / - / 344 / 27 / 108 E 380 - / - / 229 / 72 / - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 3.0 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. C - E 286 -405

#### Lumber

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

#### 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.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

04/18/2022  
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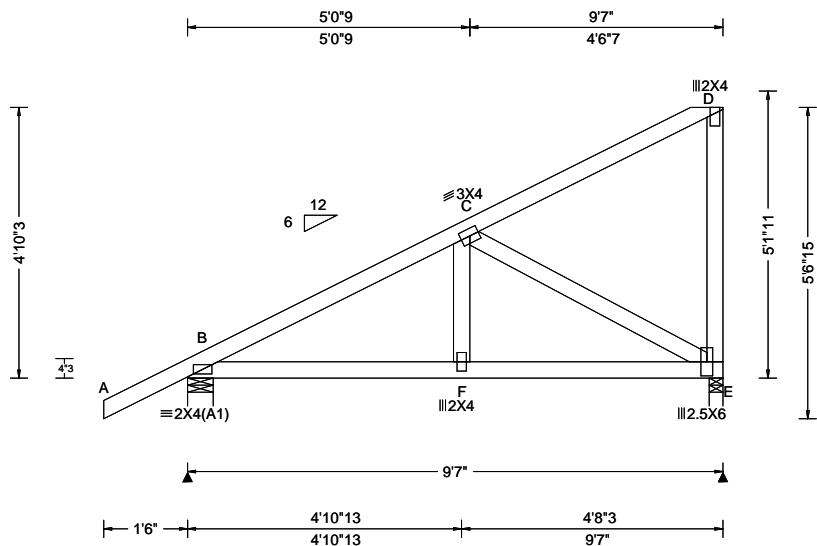
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SEQN: 62480 / FROM:	HIPM Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: D03	Cust: R 215 JRef: 1XeT2150011 T96 / DrwNo: 108.22.1559.07101 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.22 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.006 F 999 240 VERT(CL): 0.012 F 999 180 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.113 Max Web CSI: 0.238  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 503 - / - /343 /11 /136 E 380 - / - /246 /47 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 3.0 Min Req = 1.5 (Truss) Bearings B & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 96 -520

#### Lumber

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

#### Wind

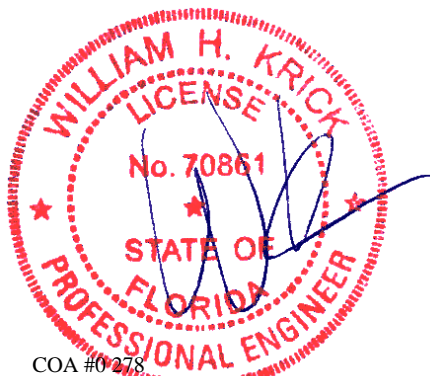
Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	414 -275	F - E	411 -277

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	310 -462



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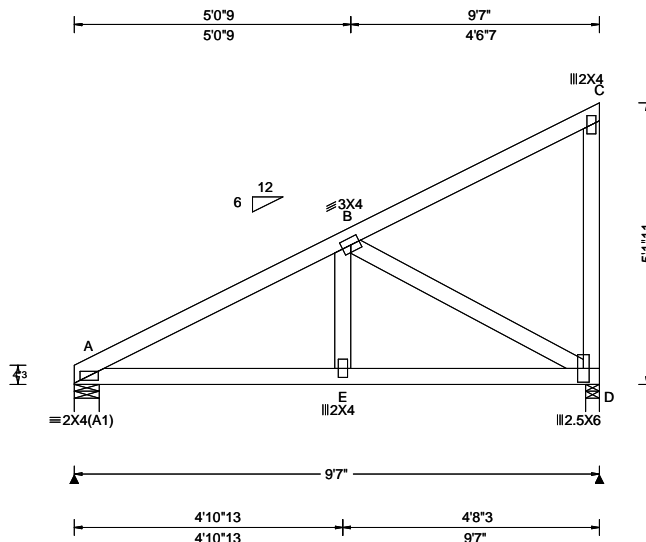
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62478 / FROM:	MONO Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: D04	Cust: R 215 JRef: 1XeT2150011 T55 / DrwNo: 108.22.1559.07646 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.74 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.007 E 999 240 VERT(CL): 0.014 E 999 180 HORZ(LL): 0.003 D - - HORZ(TL): 0.006 D - - Creep Factor: 2.0 Max TC CSI: 0.356 Max BC CSI: 0.298 Max Web CSI: 0.257  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 401 -/- /- /251 -/- /129 D 389 -/- /- /275 /61 -/- Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 3.0 Min Req = 1.5 (Truss) Bearings A & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. A - B 105 -546

#### Lumber

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

#### Wind

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

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - E	443 -306	E - D	439 -308

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
B - D	351 -501



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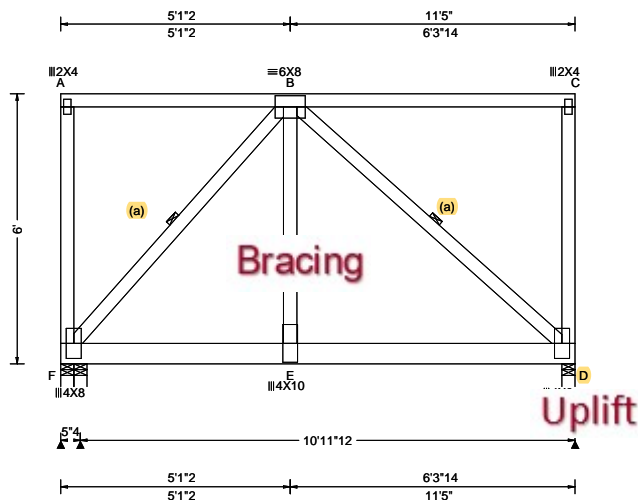
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 88541 / FROM:	FLAT Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: E01	Cust: R 215 JRef: 1XeT2150011 T89 / DrwNo: 108.22.1559.06413 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 10.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.042 E 999 240 VERT(CL): 0.084 E 999 180 HORZ(LL): 0.007 D - - HORZ(TL): 0.015 D - - Creep Factor: 2.0 Max TC CSI: 0.490 Max BC CSI: 0.769 Max Web CSI: 0.832 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 3192 - / - / 0 / - / 572 / 0 F 2058 - / 0 / - / 193 / - D 6215 - / - / - / - / 912 / - Wind reactions based on MWFRS F Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 3.5 Min Req = 2.6 (Truss) Bearings F, F, & D are a rigid surface. Members not listed have forces less than 375# <b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

**Lumber**  
Top chord: 2x4 SP M-31;  
Bot chord: 2x6 SP 2400f-2.0E;  
Webs: 2x4 SP #3; W3 2x4 SP #2;

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

**Nailnote**  
Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @ 7.75" o.c.  
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)  
Webs: 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 60 plf at 0.00 to 60 plf at 2.52  
TC: From 30 plf at 2.52 to 30 plf at 11.42  
BC: From 10 plf at 0.00 to 10 plf at 11.42  
TC: 874 lb Conc. Load at 5.10  
TC: 380 lb Conc. Load at 7.10, 9.10  
TC: 389 lb Conc. Load at 10.90  
BC: 929 lb Conc. Load at 0.69  
BC: 937 lb Conc. Load at 2.52, 4.52  
BC: 1923 lb Conc. Load at 5.08  
BC: 1395 lb Conc. Load at 7.02, 9.02, 11.02

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

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

**Additional Notes**  
Truss must be installed as shown with top chord up.  
Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

It is the responsibility of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans, specifications and fabricator's truss layout.



COA #0278

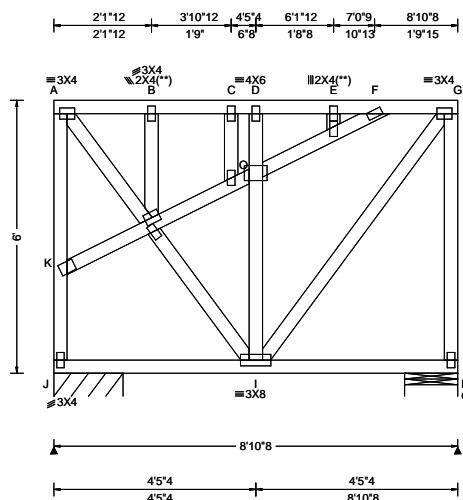
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62573 / FROM:	FLAT Ply: 2 Qty: 1	Job Number: 22-7310 Parnell Truss Label: E02	Cust: R 215 JRef: 1XeT2150011 T92 / DrwNo: 108.22.1559.07600 AK / FV 04/18/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 10.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.026 F 999 240 VERT(CL): 0.052 F 999 180 HORZ(LL): -0.002 G - - HORZ(TL): 0.003 G - - Creep Factor: 2.0 Max TC CSI: 0.241 Max BC CSI: 0.029 Max Web CSI: 0.232 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J* 517 -/- /- /- /103 -/ Q 797 -/- /- /- /96 -/ Wind reactions based on MWFRS J Brg Wid = 18.3 Min Req = - Q Brg Wid = 14.0 Min Req = 1.5 (Truss) Bearings J & Q are a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. J - K 82 -381 G - H 52 -388 O - I 69 -394

#### Lumber

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

#### Nailnote

Nail Schedule: 0.131"x3", min. nails  
Top Chord: 1 Row @10.25" 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 30 plf at 0.00 to 30 plf at 8.88  
BC: From 10 plf at 0.00 to 10 plf at 8.88  
TC: 234 lb Conc. Load at 0.63  
TC: 251 lb Conc. Load at 2.63  
TC: 322 lb Conc. Load at 4.60  
TC: 211 lb Conc. Load at 6.60, 8.60

#### Plating Notes

All plates are 2X4 except as noted.

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

#### Purlins

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

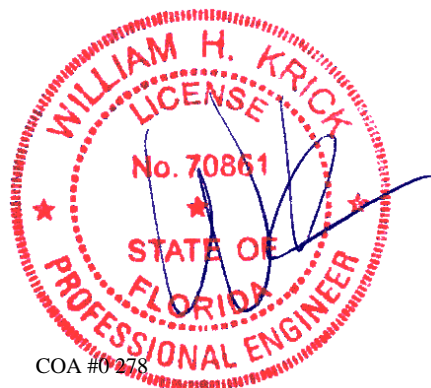
#### Additional Notes

Truss must be installed as shown with top chord up.

#### Wind

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

See DWGS A16030ENC101014 & GBLLETIN0118  
for more requirements.



COA #0278

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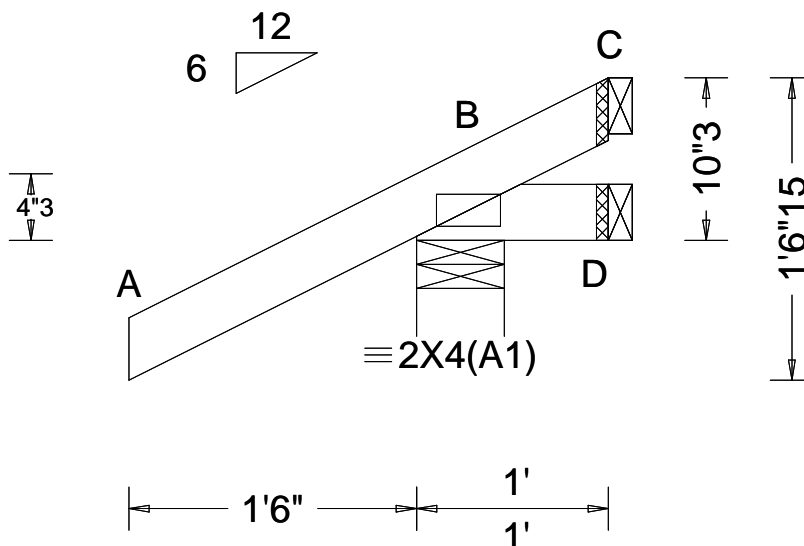
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62444 / FROM:	JACK Ply: 1 Qty: 10	Job Number: 22-7310 Parnell Truss Label: J01	Cust: R 215 JRef: 1XeT2150011 T8 / DrwNo: 108.22.1559.06443 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.250 Max BC CSI: 0.035 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 240 /- /- /202 /69 /38 D 6 /-16 /- /16 /16 /- C - /-48 /- /34 /51 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

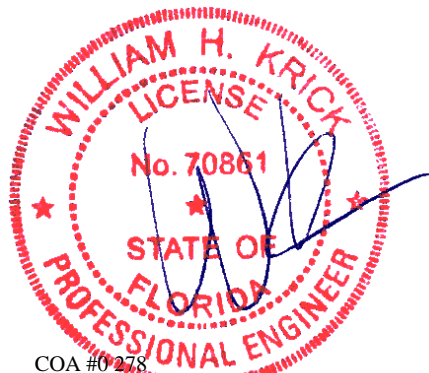
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

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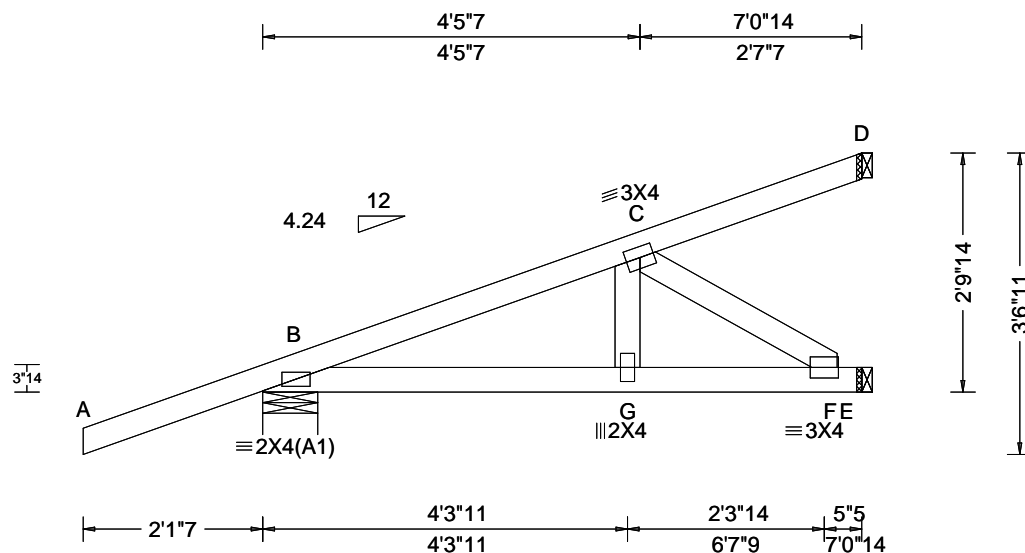
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 61944 / FROM:	HIP_	Ply: 1 Qty: 4	Job Number: 22-7310 Parnell Truss Label: J01HJ	Cust: R215 JRef: 1XeT2150011 T2 / DrwNo: 108.22.1559.06272 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	B	307	/-	/-	/-	/70	/-
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.006 G 999 240	E	183	/-	/-	/-	/6	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.012 G 999 180	D	110	/-	/-	/-	/41	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 B - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: C Kzt: NA	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.003 B - -	B Brg Wid = 7.8 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 15.00 ft		Creep Factor: 2.0	E Brg Wid = 1.5 Min Req = -						
Soffit: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.405	D Brg Wid = 1.5 Min Req = -						
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.209	Bearing B is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.028	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft									
	Loc. from endwall: NA									
	GCpi: 0.18									
	Wind Duration: 1.60									
			VIEW Ver: 21.02.00.1005.17							

#### Lumber

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

#### Loading

Hipjack supports 5-0-0 setback jacks with no webs.

#### Wind

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



COA #0278

04/18/2022  
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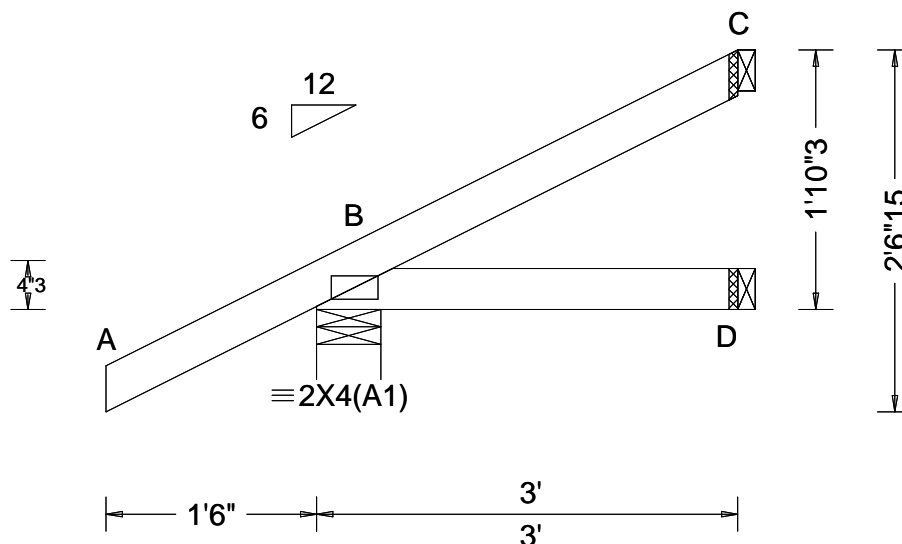
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 62446 / FROM:	JACK Ply: 1 Qty: 8	Job Number: 22-7310 Parnell Truss Label: J02	Cust: R 215 JRef: 1XeT2150011 T7 / DrwNo: 108.22.1559.07334 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.164 Max BC CSI: 0.066 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 253 - / - /190 /42 /73 D 50 - / - /26 - / - C 63 - / - /36 /34 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

04/18/2022  
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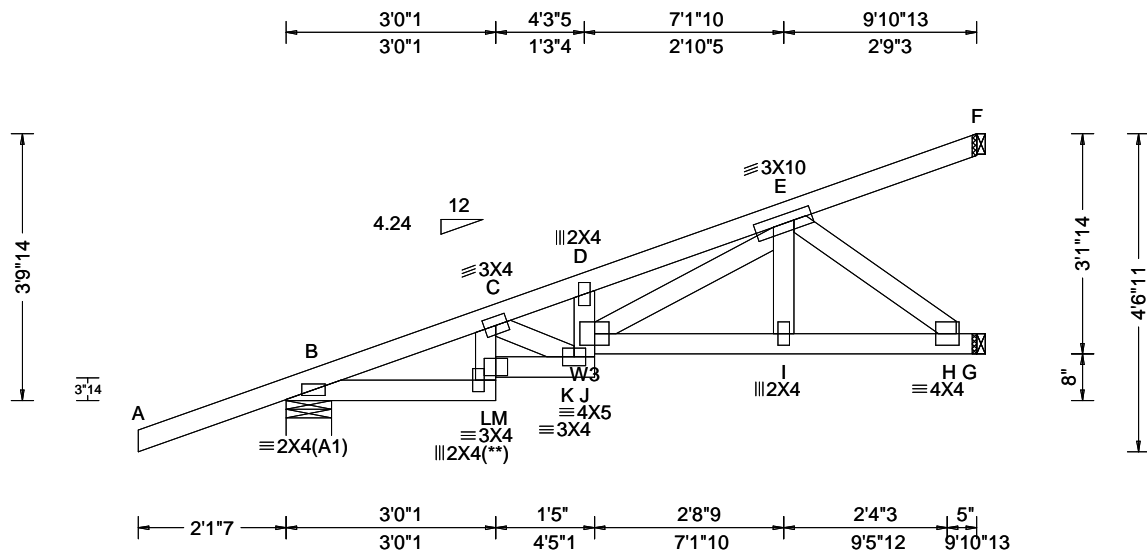
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 61986 / FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J02HJ	Cust: R 215 JRef: 1XeT2150011 T39 / DrwNo: 108.22.1559.07491 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.079 K 999 240 VERT(CL): 0.159 K 737 180 HORZ(LL): 0.033 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.405 Max BC CSI: 0.417 Max Web CSI: 0.800 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 461 - / - / - /96 - / - G 471 - / - /0 /46 /0 F 150 - / - / - /59 - / - Wind reactions based on MWFRS B Brg Wid = 7.8 Min Req = 1.5 (Truss) G Brg Wid = 1.5 Min Req = - F Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3; W3 2x4 SP #2;

#### Plating Notes

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

#### Loading

Hipjack supports 7-0-0 setback jacks with no webs.

#### Wind

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

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - M	582 -84	J - I	647 -111
L - K	833 -123	I - H	650 -108

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J - E	697 -113	E - H	134 -804



COA #0278

04/18/2022  
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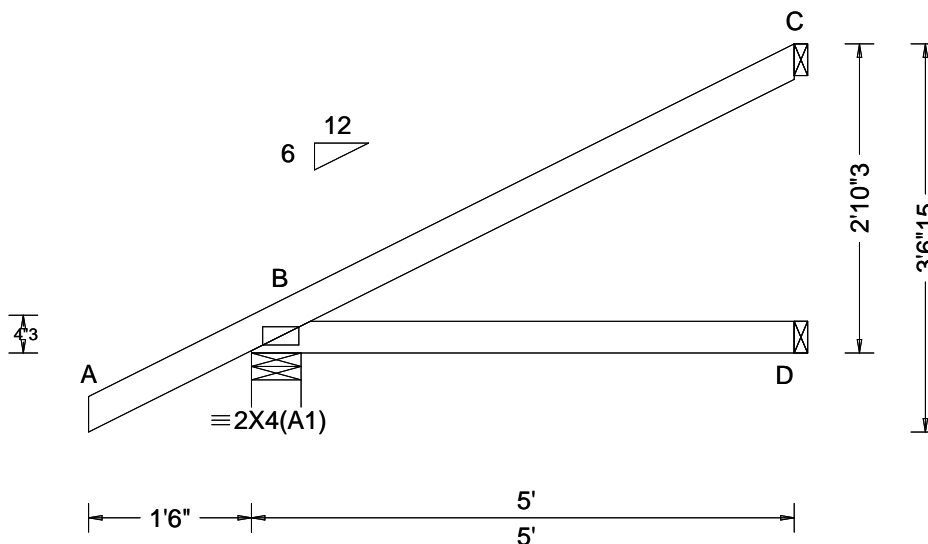
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SEQN: 61908 / FROM:	EJAC	Ply: 1 Qty: 11	Job Number: 22-7310 Parnell Truss Label: J03	Cust: R 215 JRef: 1XeT2150011 T16 / DrwNo: 108.22.1559.06225 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 B - - HORZ(TL): 0.008 B - - Creep Factor: 2.0 Max TC CSI: 0.316 Max BC CSI: 0.236 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 323 - / - / - / 231 / 43 / 109 D 90 - / - / - / 48 - / - C 128 - / - / - / 79 / 65 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

04/18/2022  
Florida Certificate of Product Approval #FL 1999

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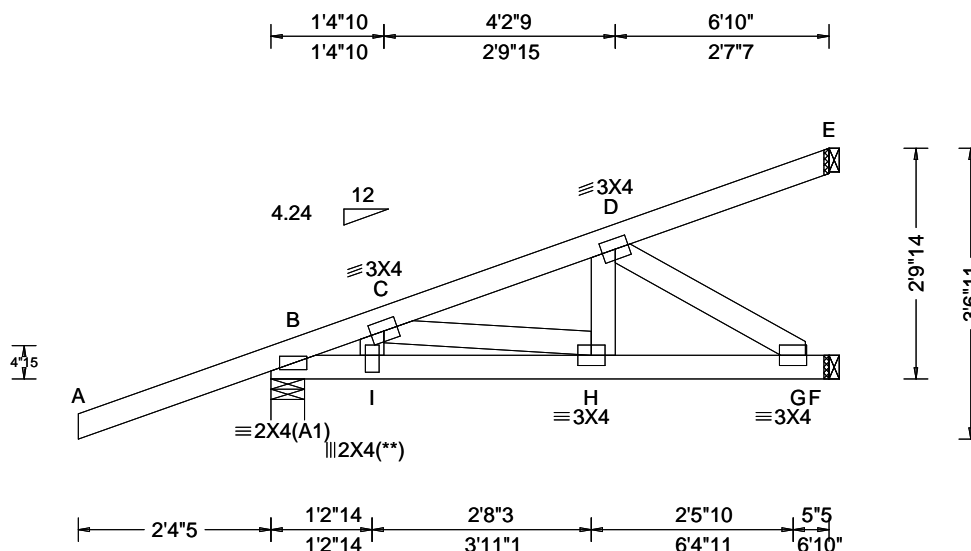
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 88535 / FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J03HJ	Cust: R 215 JRef: 1XeT2150011 T64 / DrwNo: 108.22.1559.06694 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.20 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 D 999 240 VERT(CL): 0.008 D 999 180 HORZ(LL): -0.001 E - - HORZ(TL): 0.002 E - - Creep Factor: 2.0 Max TC CSI: 0.521 Max BC CSI: 0.173 Max Web CSI: 0.095 VIEW Ver: 21.02.01.1216.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 323 /- /- /- /90 /- F 163 /- /- /- /8 /- E 100 /- /- /- /43 /- Wind reactions based on MWFRS B Brg Wid = 4.9 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#

#### Lumber

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

#### Plating Notes

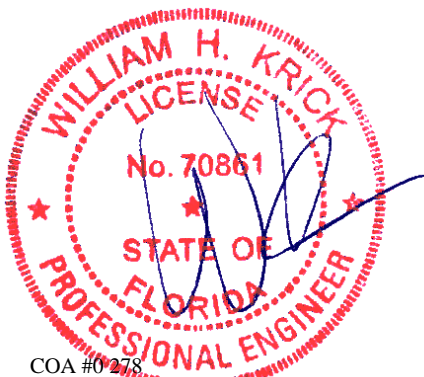
(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

#### Loading

Hipjack supports 4-10-0 setback jacks with no webs.

#### Wind

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



COA #0278

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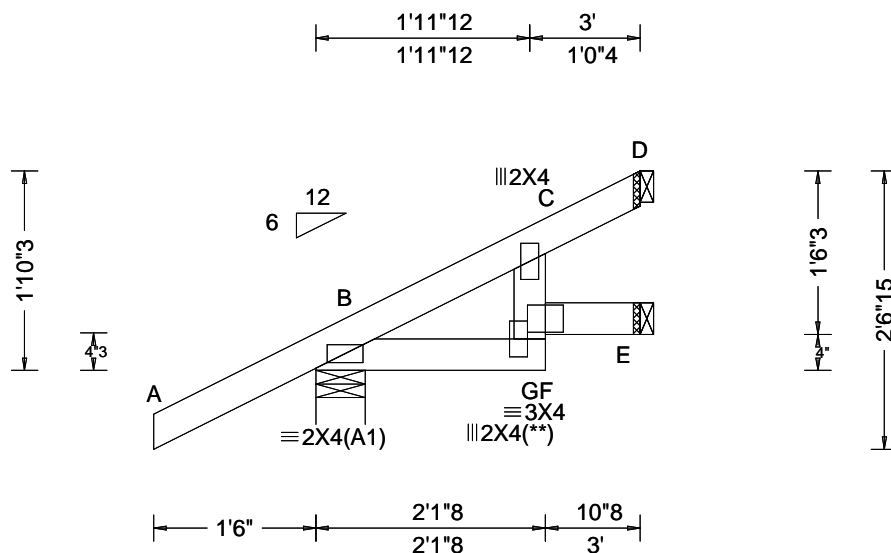
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 61910 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: J04	Cust: R 215 JRef: 1XeT2150011 T62 / DrwNo: 108.22.1559.06975 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 F 999 240 VERT(CL): 0.007 F 999 180 HORZ(LL): 0.002 C - - HORZ(TL): 0.004 C - - Creep Factor: 2.0 Max TC CSI: 0.163 Max BC CSI: 0.033 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 253 - / - /190 /42 /73 E 24 - / - /13 - / - D 73 - / - /45 /27 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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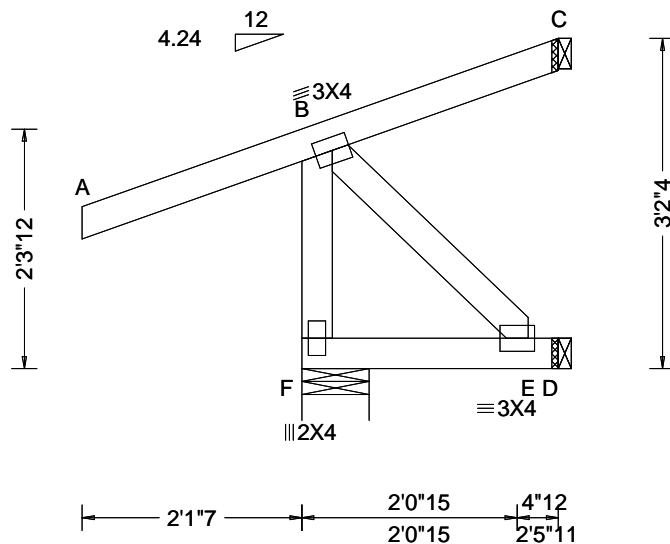
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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SEQN: 61978 / FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J04HJ	Cust: R 215 JRef: 1XeT2150011 T57 / DrwNo: 108.22.1559.06162 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): -0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.249 Max BC CSI: 0.006 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 144 /- /- /- /40 /- D 3 /- /- /6 /- /- C - /-9 /- /0 /- /- Wind reactions based on MWFRS F Brg Wid = 7.8 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#

#### Lumber

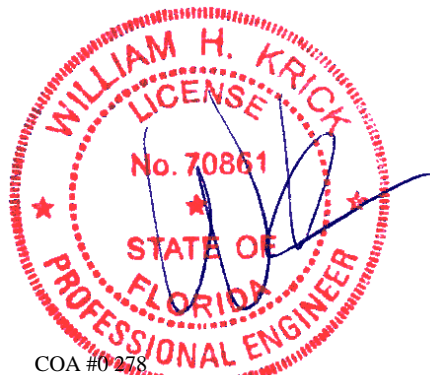
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

#### Loading

Hipjack supports 1-9-0 setback jacks with no webs.

#### Wind

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



COA #0278

04/18/2022  
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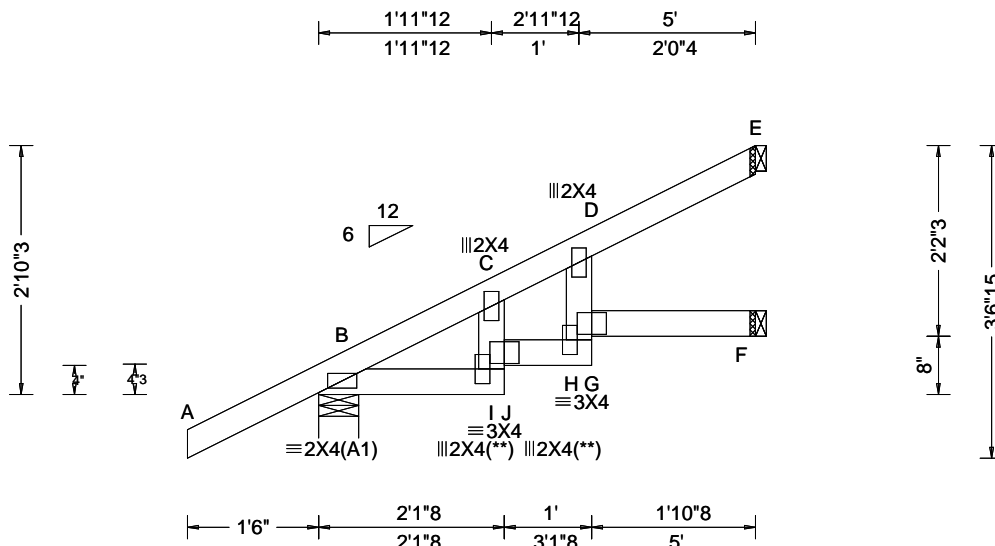
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SEQN: 61912 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: J05	Cust: R 215 JRef: 1XeT2150011 T81 / DrwNo: 108.22.1559.07725 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.047 G 999 240 VERT(CL): 0.091 G 640 180 HORZ(LL): 0.025 D - - HORZ(TL): 0.048 D - - Creep Factor: 2.0 Max TC CSI: 0.326 Max BC CSI: 0.078 Max Web CSI: 0.112 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 323 - / - /231 /43 /109 F 52 - / - /31 - / - E 145 - / - /96 /55 - Wind reactions based on MWFRS B Brg Wid = 5.5 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#

#### Lumber

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

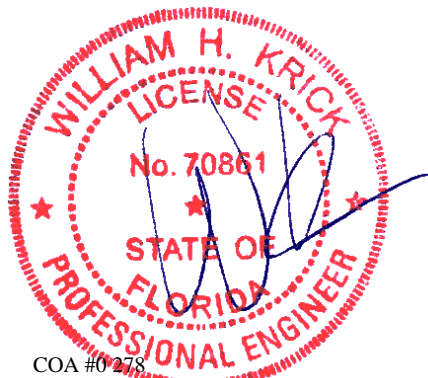
#### Plating Notes

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

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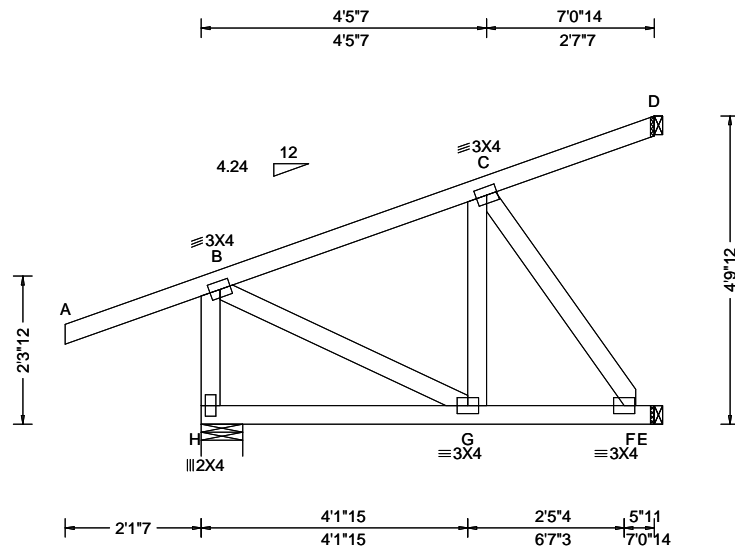
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 88479 / FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J05HJ	Cust: R 215 JRef: 1XeT2150011 T46 / DrwNo: 108.22.1559.06600 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.003 G 999 240 VERT(CL): 0.007 G 999 180 HORZ(LL): 0.002 C - - HORZ(TL): 0.003 C - - Creep Factor: 2.0 Max TC CSI: 0.339 Max BC CSI: 0.189 Max Web CSI: 0.085 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 269 /- /- /- /60 /- E 198 /- /- /- /11 /- D 109 /- /- /- /40 /- Wind reactions based on MWFRS H Brg Wid = 7.8 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Loading

Hipjack supports 5-0-0 setback jacks with no webs.

#### Wind

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



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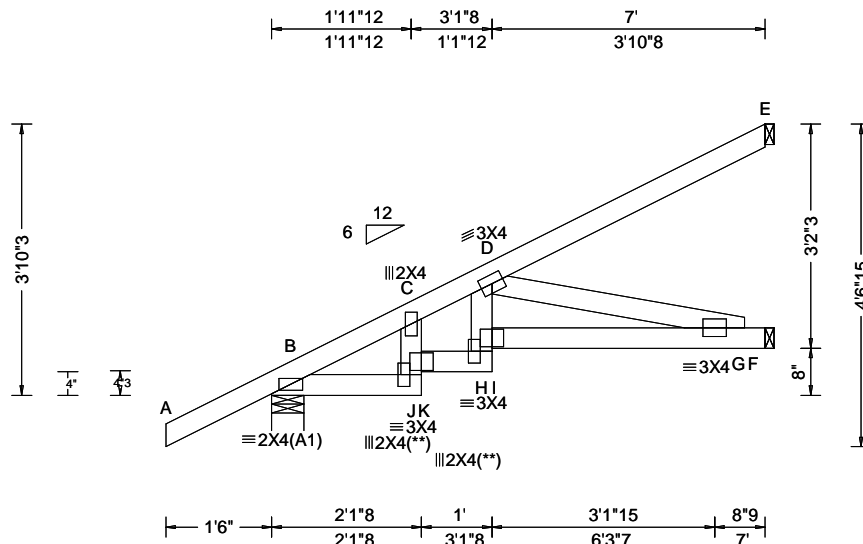
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 61915 / FROM:	EJAC Ply: 1 Qty: 5	Job Number: 22-7310 Parnell Truss Label: J06	Cust: R215 JRef: 1XeT2150011 T90 / DrwNo: 108.22.1559.06084 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.021 H 999 240 VERT(CL): 0.042 H 999 180 HORZ(LL): 0.012 G - - HORZ(TL): 0.024 G - - Creep Factor: 2.0 Max TC CSI: 0.226 Max BC CSI: 0.290 Max Web CSI: 0.478  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 400 - / - / 278 / 47 / 144 F 169 - / 0 / 122 / 21 / 0 E 110 - / - / 68 / 56 / - Wind reactions based on MWFRS B Brg Wid = 5.5 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# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

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

#### Plating Notes

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

J - I 388 -294 H - G 519 -393

#### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp.

D - G 405 -534



COA #0278

04/18/2022

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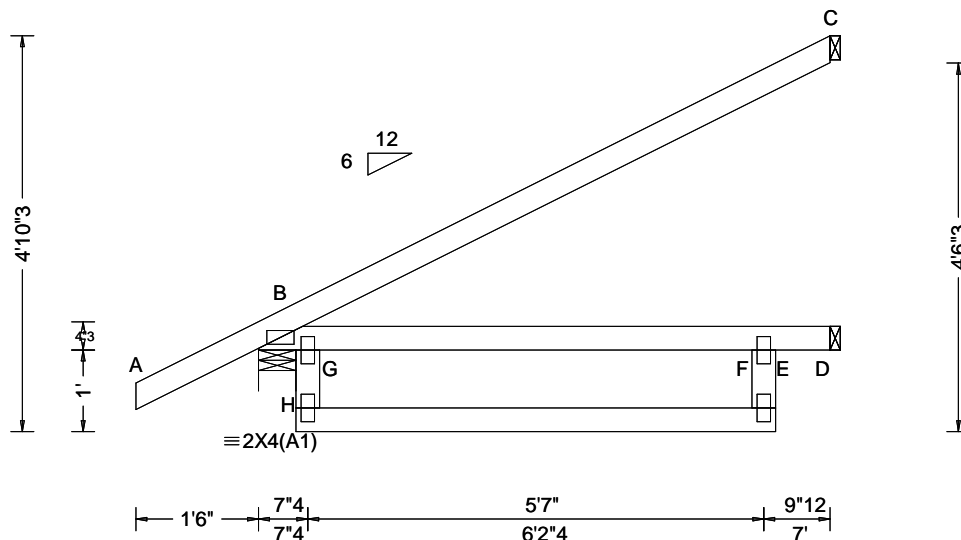


155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025





SEQN: 61921 / FROM:	EJAC	Ply: 1 Qty: 3	Job Number: 22-7310 Parnell Truss Label: J08	Cust: R215 JRef: 1XeT2150011 T78 / DrwNo: 108.22.1559.07693 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.022 E 999 240 VERT(CL): 0.044 E 999 180 HORZ(LL): 0.011 H - - HORZ(TL): 0.022 H - - Creep Factor: 2.0 Max TC CSI: 0.667 Max BC CSI: 0.363 Max Web CSI: 0.146  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 400 - / - / 278 / 6 / 104 D 139 - / - / 78 - / - C 181 - / - / 112 / 60 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### 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.

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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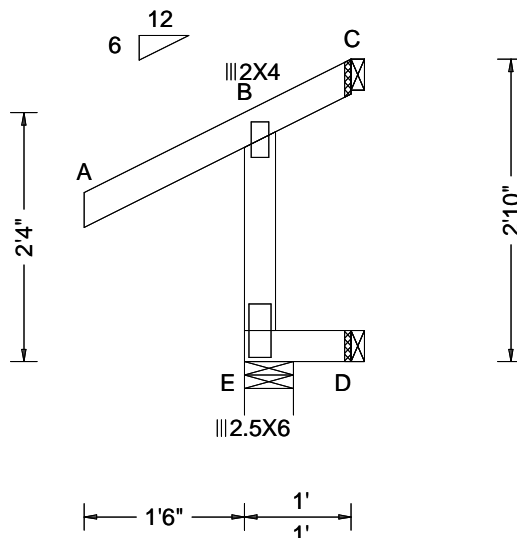
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SEQN: 61923 / FROM:	JACK Ply: 1 Qty: 4	Job Number: 22-7310 Parnell Truss Label: J09	Cust: R 215 JRef: 1XeT2150011 T26 / DrwNo: 108.22.1559.06772 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.250 Max BC CSI: 0.010 Max Web CSI: 0.133  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 205 /- /- /188 /76 /- D 20 /- /- /10 /- /- C - /-39 /- /49 /62 /38 Wind reactions based on MWFRS E Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp.

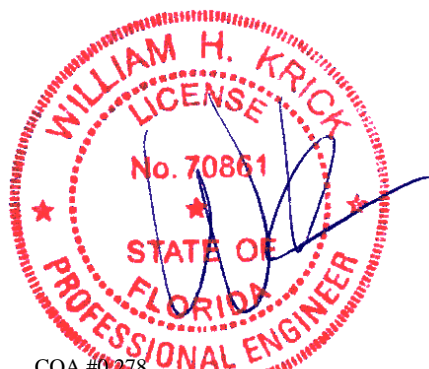
B - E 446 -195

#### Lumber

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

#### Wind

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



COA #0278

04/18/2022  
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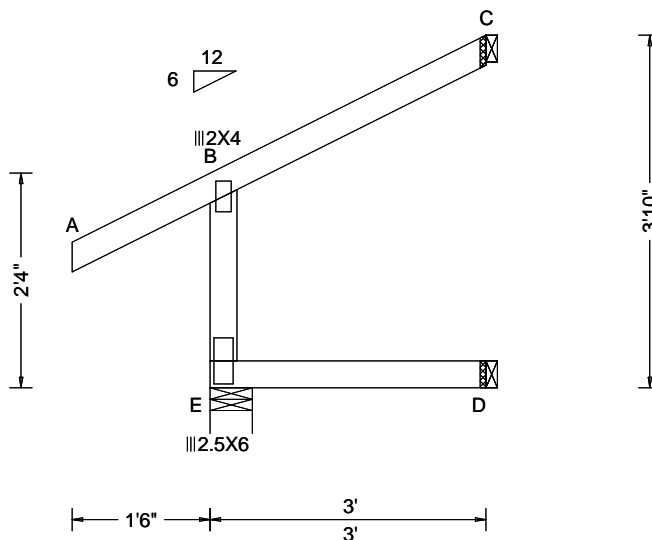
#### **\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!** **\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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

SEQN: 61925 / FROM:	JACK Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: J10	Cust: R 215 JRef: 1XeT2150011 T25 / DrwNo: 108.22.1559.07256 AK / FV 04/18/2022
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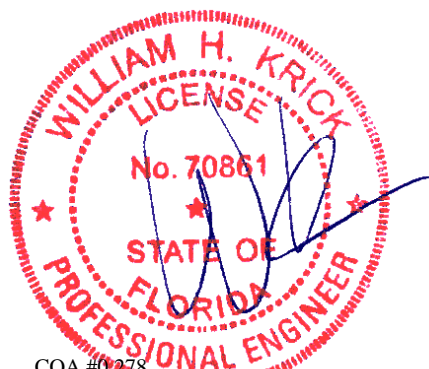
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): -0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.183 Max BC CSI: 0.098 Max Web CSI: 0.092  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 240 /- /- /202 /77 /- D 60 /- /- /30 /- /- C 70 /- /- /38 /13 /73 Wind reactions based on MWFRS E Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### 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

04/18/2022  
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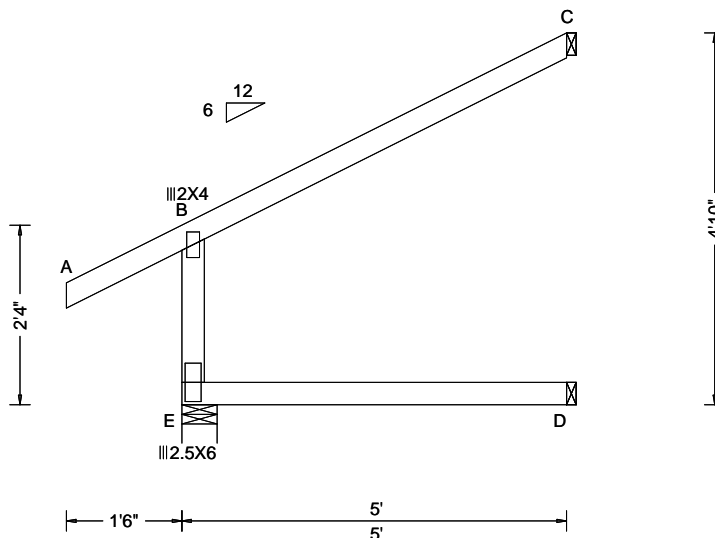
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 88476 / FROM:	EJAC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J11	Cust: R 215 JRef: 1XeT2150011 T91 / DrwNo: 108.22.1559.05742 AK / FV 04/18/2022
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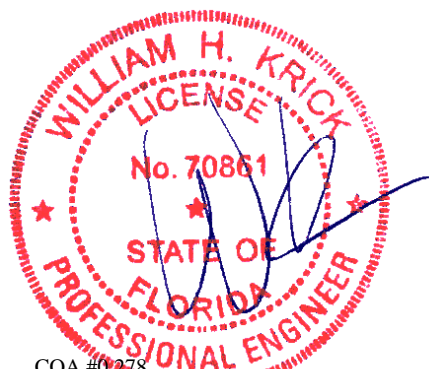
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): -0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.428 Max BC CSI: 0.298 Max Web CSI: 0.108  VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 313 /- /- /252 /97 /- D 100 /- /- /50 /- /- C 142 /- /- /56 /23 /109 Wind reactions based on MWFRS E Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### 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

04/18/2022  
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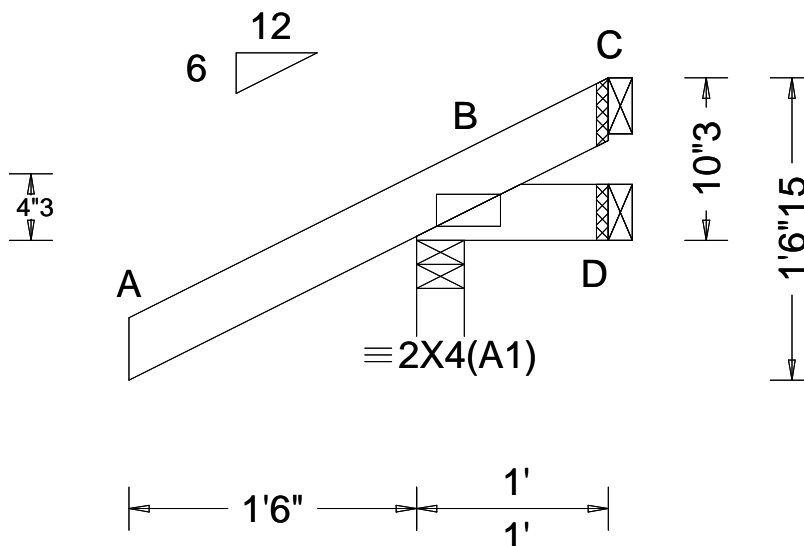
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SEQN: 61957 / FROM:	JACK Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J12	Cust: R 215 JRef: 1XeT2150011 T95 / DrwNo: 108.22.1559.06397 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.22 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.022 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 234 /- /- /197 /71 /38 D 6 /-15 /- /16 /16 /- C - /-44 /- /33 /47 /- Wind reactions based on MWFRS B Brg Wid = 3.0 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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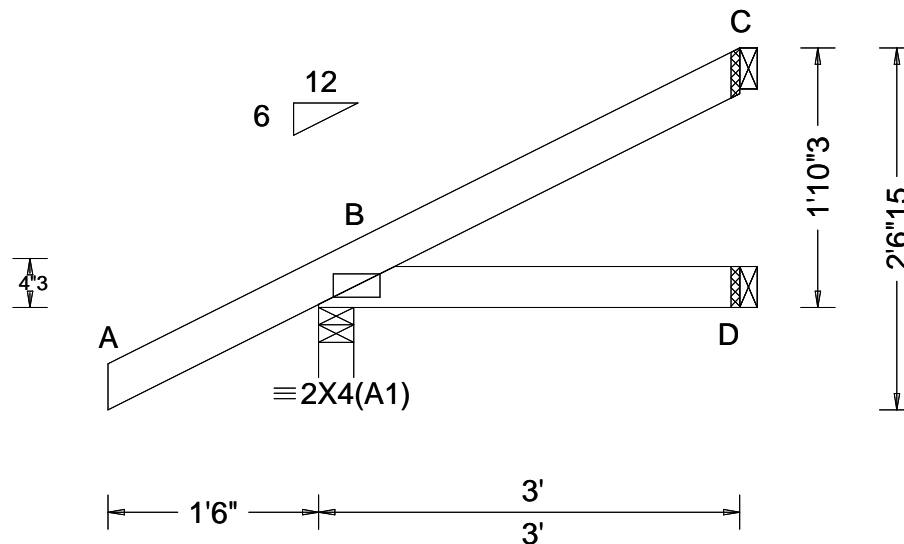
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SEQN: 61959 / FROM:	JACK Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J13	Cust: R 215 JRef: 1XeT2150011 T17 / DrwNo: 108.22.1559.06147 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.72 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.168 Max BC CSI: 0.067 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 251 /- /- /189 /41 /73 D 50 /- /- /27 /- /- C 65 /- /- /36 /35 /- Wind reactions based on MWFRS B Brg Wid = 3.0 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

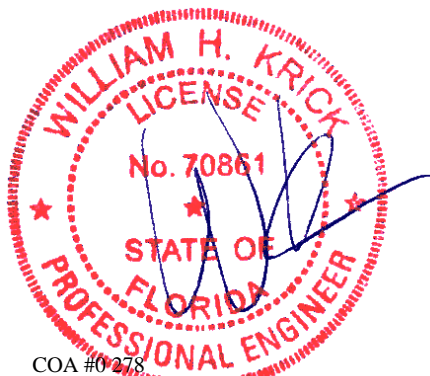
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0278

04/18/2022  
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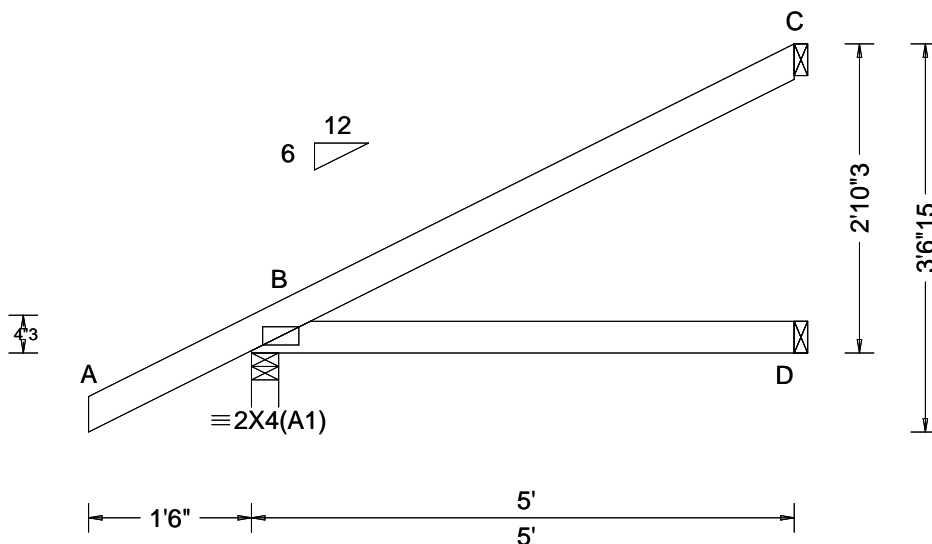
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 61961 / FROM:	EJAC	Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J14	Cust: R 215 JRef: 1XeT2150011 T86 / DrwNo: 108.22.1559.06882 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.22 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 B - - HORZ(TL): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.328 Max BC CSI: 0.238 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 322 - / - / - /230 /43 /109 D 90 - / - / - /49 - / - C 129 - / - / - /79 /65 - Wind reactions based on MWFRS B Brg Wid = 3.0 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

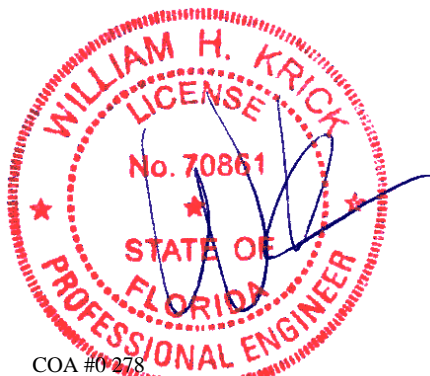
#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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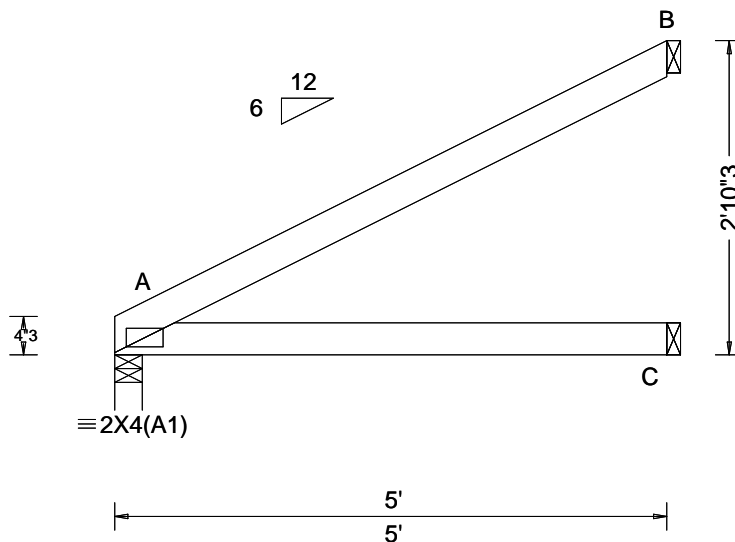
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 61963 / FROM:	EJAC	Ply: 1 Qty: 2	Job Number: 22-7310 Parnell Truss Label: J15	Cust: R 215 JRef: 1XeT2150011 T93 / DrwNo: 108.22.1559.07460 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.60 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.006 A - - HORZ(TL): 0.013 A - - Creep Factor: 2.0 Max TC CSI: 0.363 Max BC CSI: 0.253 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 211 /- /- /132 /11 /88 C 93 /- /- /55 /- /- B 138 /- /- /87 /68 /- Wind reactions based on MWFRS A Brg Wid = 3.0 Min Req = 1.5 (Truss) C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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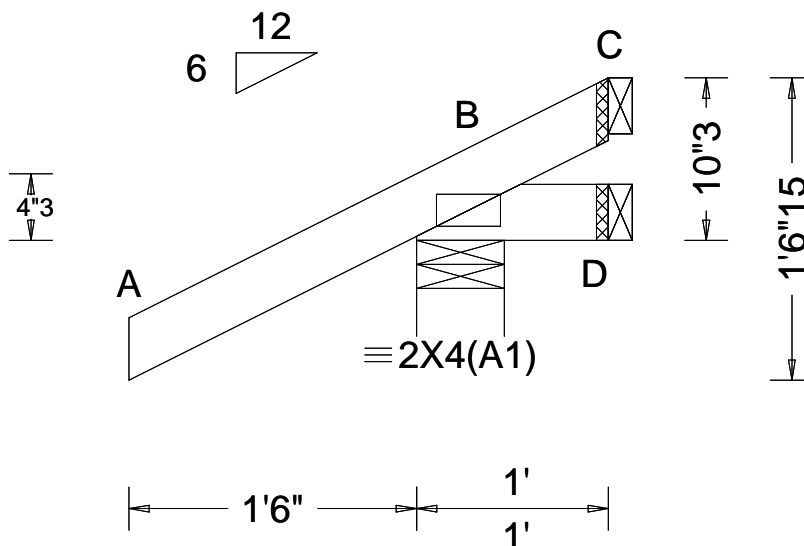
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SEQN: 88526 / FROM:	JACK Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J16	Cust: R 215 JRef: 1XeT2150011 T33 / DrwNo: 108.22.1559.05554 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 0.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.023 Max Web CSI: 0.000 VIEW Ver: 21.02.01.1216.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 240 /- /- /202 /73 /34 D 6 /-16 /- /16 /16 /- C - /-48 /- /35 /51 /- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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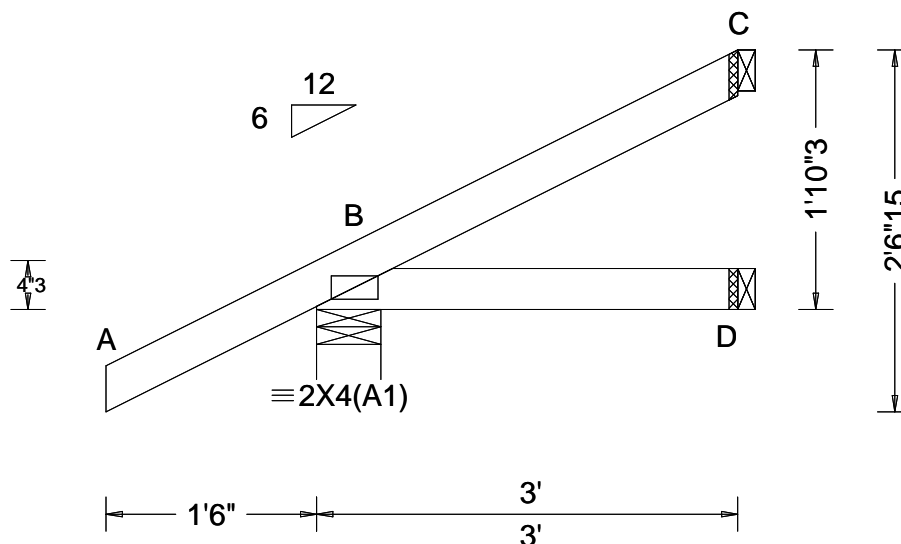
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 61969 / FROM:	JACK Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J17	Cust: R 215 JRef: 1XeT2150011 T9 / DrwNo: 108.22.1559.06804 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.72 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.168 Max BC CSI: 0.066 Max Web CSI: 0.000  VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 253 - / - /190 /34 /53 D 50 - / - /26 - / - C 63 - / - /35 /23 - Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



COA #0218

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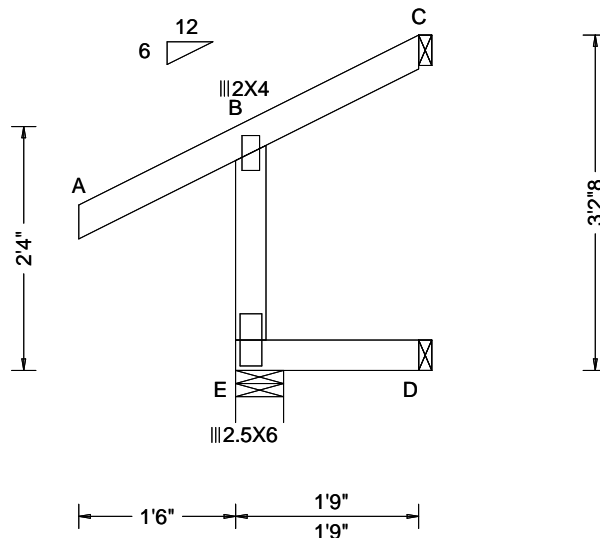
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155 Harlem Ave  
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Glenview, IL 60025

SEQN: 61937 / FROM:	EJAC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J18	Cust: R 215 JRef: 1XeT2150011 T69 / DrwNo: 108.22.1559.07398 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.168 Max BC CSI: 0.030 Max Web CSI: 0.092  VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 206 /- /- /181 /62 /- D 35 /- /- /17 /- /- C 14 /- /- /39 /33 /38 Wind reactions based on MWFRS E Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 1.5 Min Req = - C Brg Wid = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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



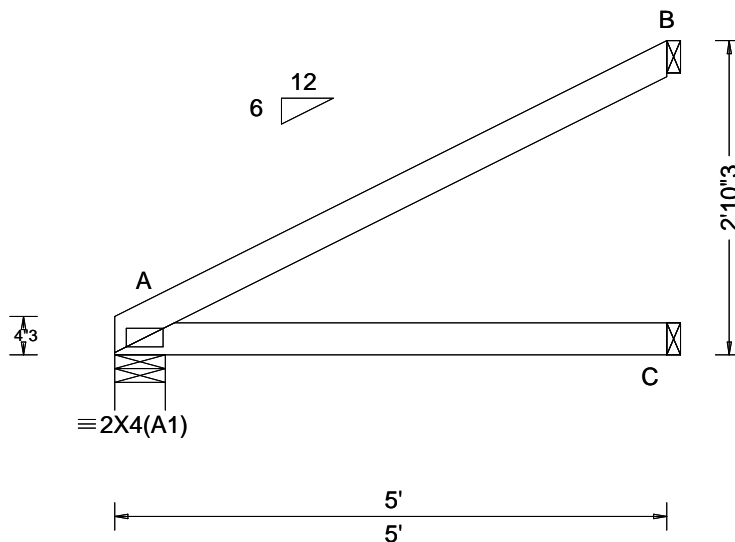
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SEQN: 62045 / FROM:	EJAC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: J19	Cust: R 215 JRef: 1XeT2150011 T50 / DrwNo: 108.22.1559.07818 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.006 A - - HORZ(TL): 0.012 A - - Creep Factor: 2.0 Max TC CSI: 0.361 Max BC CSI: 0.251 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 212 /- /- /133 /11 /87 C 93 /- /- /55 /- /- B 137 /- /- /88 /68 /- Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = 1.5 Min Req = - B Brg Wid = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Wind

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

Wind loading based on both gable and hip roof types.



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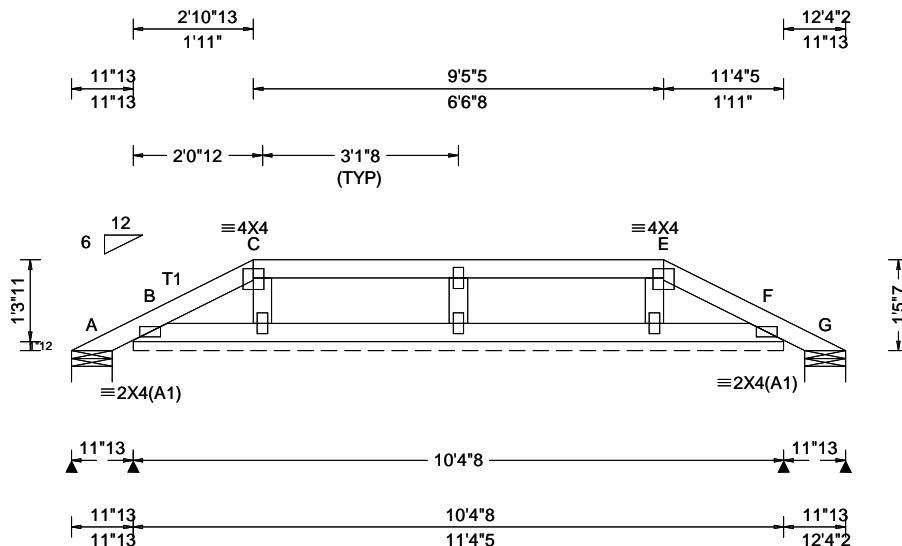
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 62386 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: PB01	Cust: R 215 JRef: 1XeT2150011 T36 / DrwNo: 108.22.1559.07163 AK / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.52 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.57 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.144 Max BC CSI: 0.030 Max Web CSI: 0.057 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL A 13 - / - /24 /13 /36 B* 72 - / - /47 /9 - G 19 - / - /16 /3 - Non-Gravity A Brg Wid = 7.8 Min Req = 1.5 (Truss) B Brg Wid = 124 Min Req = - G Brg Wid = 7.8 Min Req = 1.5 (Truss) Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Loading

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

#### Purlins

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

#### Wind

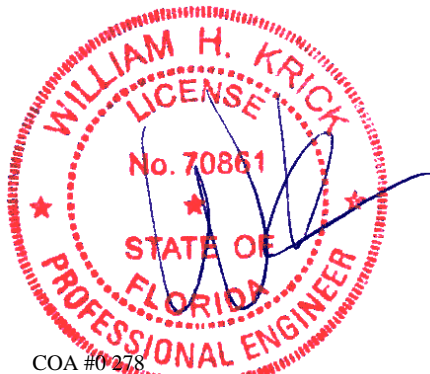
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

#### Additional Notes

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

Refer to DWG PB160160118 for piggyback details.



COA #0278

04/18/2022  
Florida Certificate of Product Approval #FL 1999

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

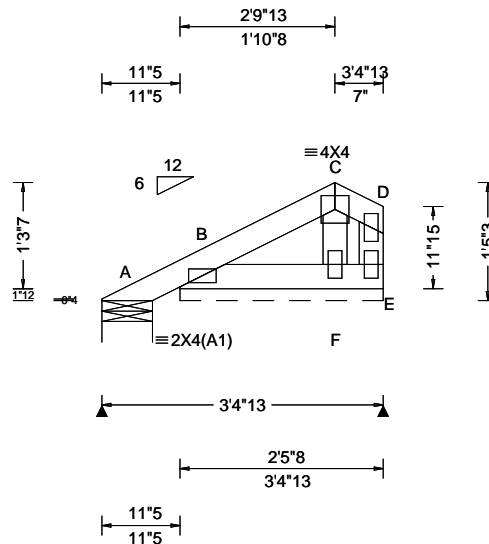
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SEQN: 62514 / FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-7310 Parnell Truss Label: PB02	Cust: R 215 JRef: 1XeT2150011 T88 / DrwNo: 108.22.1559.05929 SSB / FV 04/18/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.73 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.50 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.028 Max BC CSI: 0.017 Max Web CSI: 0.011 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 15 /- /- /19 /3 /33 B* 77 /- /- /56 /17 /- Wind reactions based on MWFRS A Brg Wid = 7.3 Min Req = 1.5 (Truss) B Brg Wid = 29.5 Min Req = - Bearings A & B are a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

#### Plating Notes

All plates are 2X4 except as noted.

#### Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Additional Notes

Refer to DWG PB160160118 for piggyback details.



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# Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

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

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

## Bracing Group Species and Grades:

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

Group B:			
Hem-Fir			
#1 & Btr	#1		
Douglas Fir-Larch		Southern Pine***	
#1	#2	#1	#2

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

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

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

\* For (1) 'L' brace: space nails at 2' o.c.

in 18' end zones and 4' o.c. between zones.

\*\* For (2) 'L' braces: space nails at 3' o.c.

in 18' end zones and 6' o.c. between zones.

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

## Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

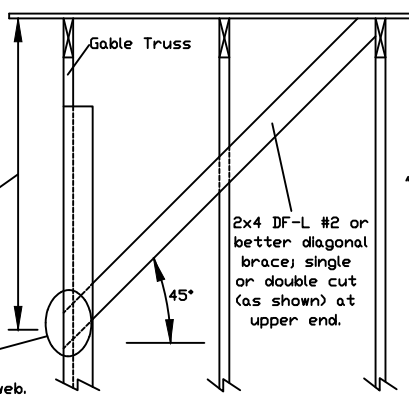
+ Refer to common truss design for peak, splice, and heel plates.

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

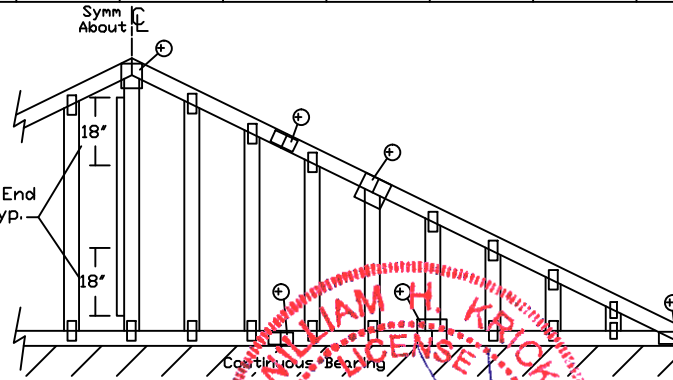
Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



'L' Brace End Zones, typ.



Refer to chart above for max gable vertical length.

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

No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

COA #0078

04/18/2022

Florida Certificate of Product Approval

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB14015

DATE 01/26/2018

DRWG A14015ENC160118

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

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

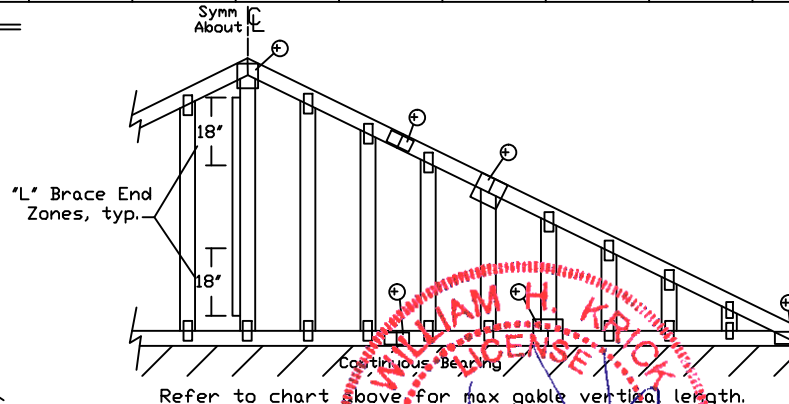
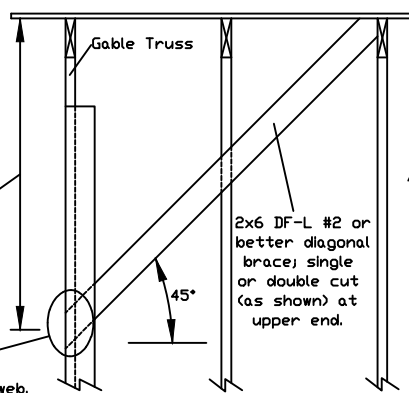
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	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
24" O.C.	SPF	HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	
			#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
			Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
			Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"	
		DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"	
			#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	
			#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"	
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"	
	Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"	14' 0"		
		SPF	HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
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Standard	4' 5"			6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"		
DFL	#1		4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2		4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"		
16" O.C.	SPF	HF	#1 / #2	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"	
			#3	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	
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			Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
	Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		SPF	HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
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Standard	4' 10"			7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
DFL	#1		5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2		5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3		5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud		5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			

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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

## Bracing Group Species and Grades:

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

Group B:			
Hem-Fir			
#1 & Btr		#1	
#1		#1	
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

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

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

## Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

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

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

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

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

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

## Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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



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No. 70861

STATE OF FLORIDA

PROFESSIONAL ENGINEER

04/18/2022

COA #0278

Florida Certificate of Product Approval #EL 1090

MAX. TOT. LD. 60 PSF

MAX. SPACING 24'0"

REF ASCE7-16-GAB14030

DATE 01/26/2018

DRWG A14030ENC160118

# CLR Reinforcing Member Substitution

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

## Notes:

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

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

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

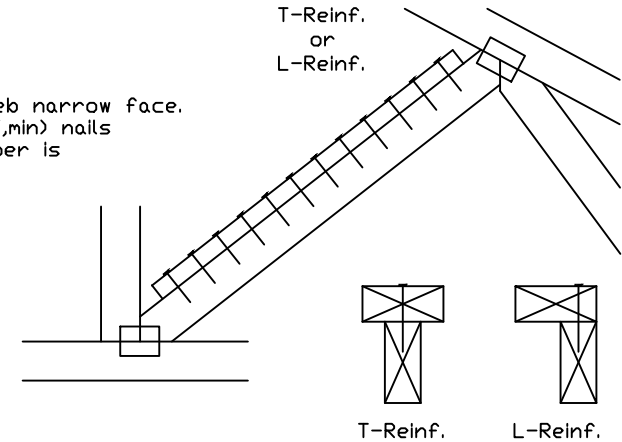
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

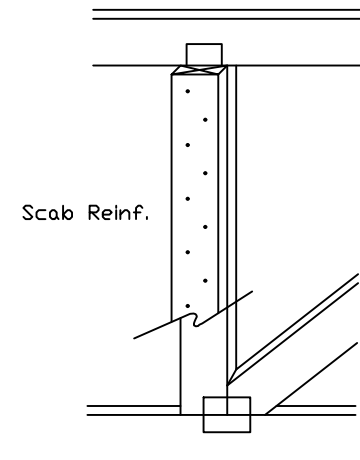
## T-Reinforcement or L-Reinforcement:

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



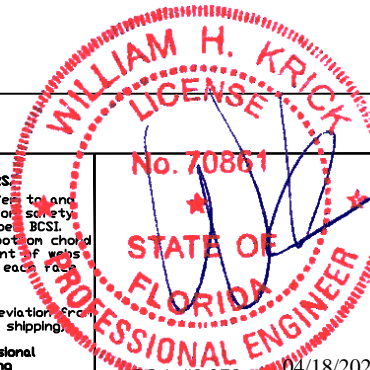
## Scab Reinforcement:

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



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COA #0278 04/18/2022  
 Florida Certificate of Product Approval

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



## Commentary: Deflection and Camber

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

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

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

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

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

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

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

### Recommended Truss Deflection Limits

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

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

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

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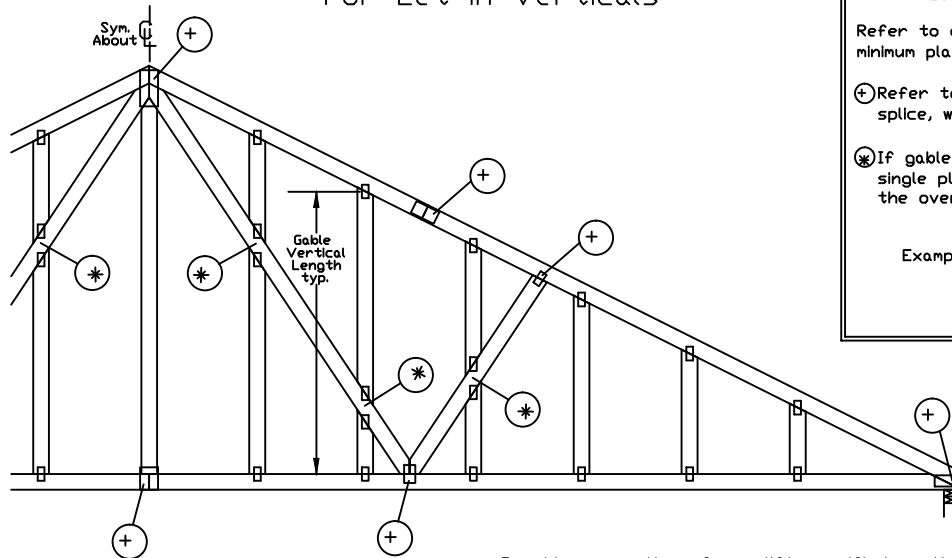


Florida Certificate of Product Approval #FL 1999

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014



# Gable Detail For Let-in Verticals

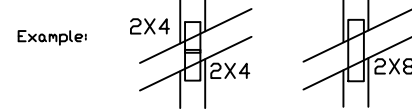


## Gable Truss Plate Sizes

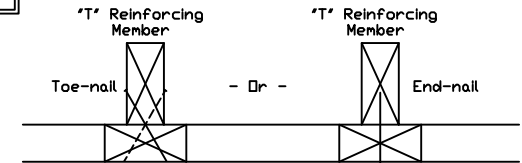
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

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



## "T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

## Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length  
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

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

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4' o.c. plus  
(4) toenails in the top and bottom chords.

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

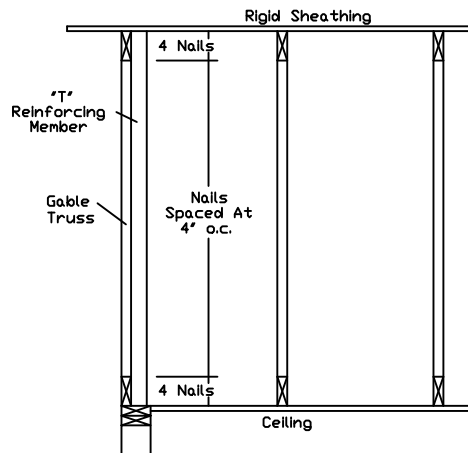
## ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,  
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

## ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,  
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,  
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,  
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,  
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,  
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,  
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,  
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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Glenview, IL 60025

No. 70861

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

COA #0278 04/18/2022

Florida Certificate of Product Approval #1999

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

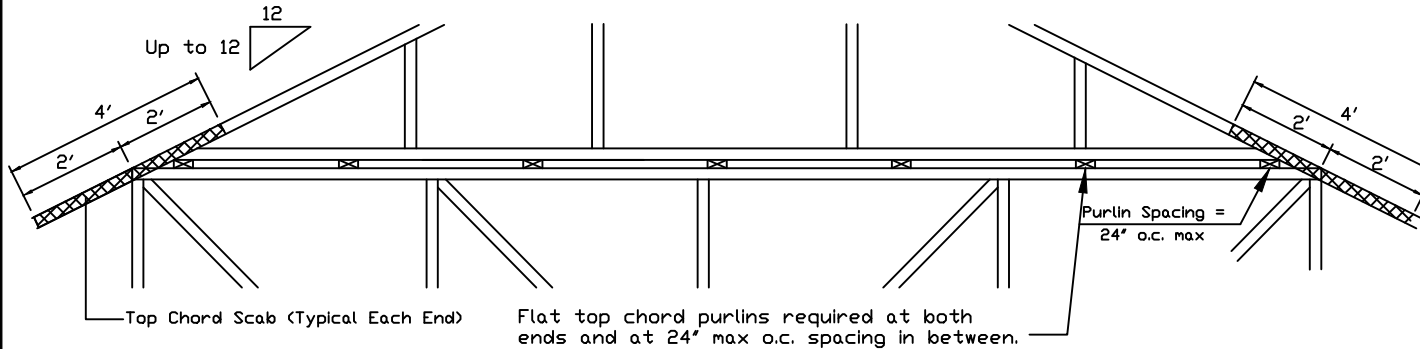
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.  
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

## Detail A : Purlin Spacing = 24" o.c. or less

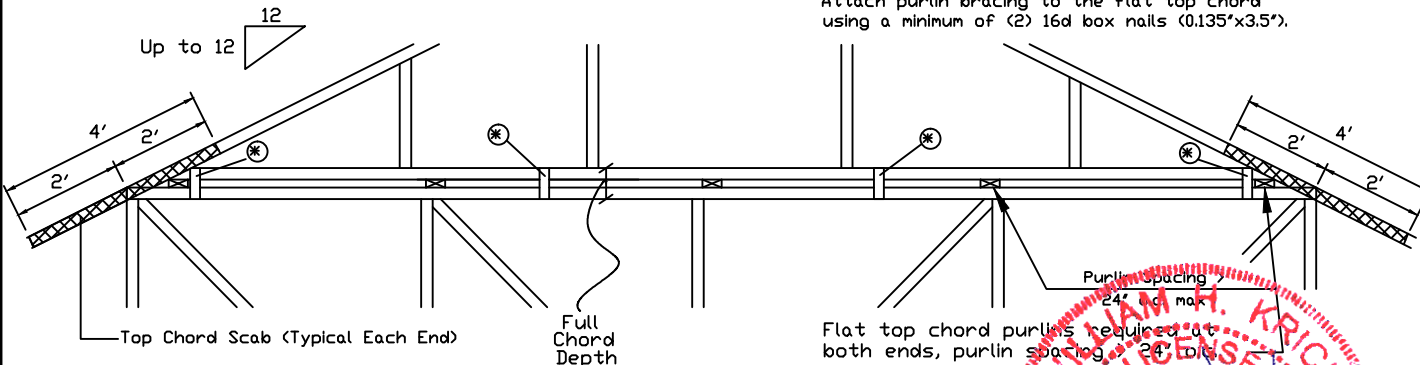


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

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



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

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

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

<b>Trulox</b> 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.
<b>APA Rated Gusset</b> 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.
<b>2x4 Vertical Scabs</b> 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.
<b>28PB Wave Piggyback Plate</b> One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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

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No. 70861



GOA #0278 04/18/2022

Florida Certificate of Product Approval

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"