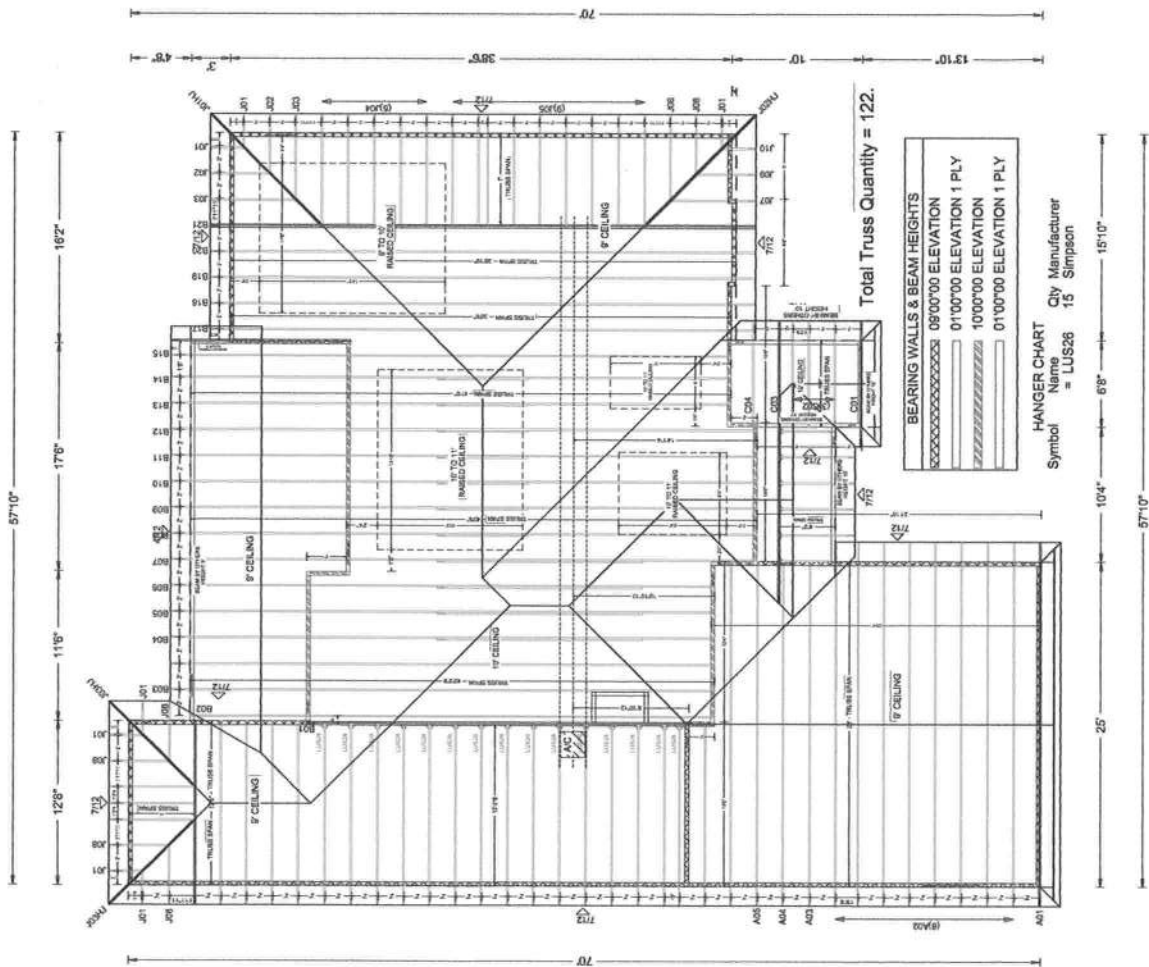




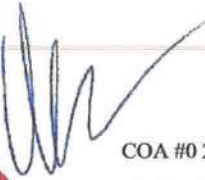
JOB #: 22-8296

Job Name: Hagan
Customer: Gibraltar Contr.
Designer: Fill in later
ADDRESS:
SALESMAN: DB
: <Not Found>

JOB NO:
22-8296

PAGE NO:
1 OF 1

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Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com



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Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-8296
Job Description: Hagan	
Address:	

Job Engineering Criteria:
Design Code: FBC 7th Ed. 2020 Res.
IntelliVIEW Version: 21.02.00 through 21.02.00B
JRef #: 1XJO2150005
Wind Standard: ASCE 7-16 Wind Speed (mph): 130
Design Loading (psf): 40.00
Building Type: Closed

This package contains general notes pages, 65 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	283.22.1117.06668	A01
3	283.22.1117.07667	A03
5	283.22.1117.07777	A05
7	283.22.1117.08855	A07
9	283.22.1117.08777	A08
11	283.22.1117.08277	A10
13	283.22.1117.06653	A12
15	283.22.1117.08466	A14
17	284.22.0828.16430	B01
19	284.22.0828.28970	B03
21	284.22.0828.32220	B05
23	284.22.0828.35360	B07
25	284.22.0828.51330	B09
27	284.22.0828.58970	B11
29	284.22.0829.06160	B13
31	284.22.0829.15437	B15
33	284.22.0829.20350	B17
35	283.22.1117.09230	B19
37	284.22.0829.47813	B21
39	283.22.1117.08199	C01
41	283.22.1117.07045	C03
43	283.22.1117.07042	D01
45	283.22.1117.08089	J01
47	283.22.1117.09573	J02
49	283.22.1117.07654	J03

Item	Drawing Number	Truss
2	283.22.1117.07043	A02
4	283.22.1117.08370	A04
6	283.22.1117.07653	A06
8	283.22.1117.07589	A07A
10	283.22.1117.07480	A09
12	283.22.1117.09168	A11
14	283.22.1117.09620	A13
16	283.22.1117.06667	A15
18	284.22.0828.26570	B02
20	284.22.0828.30563	B04
22	284.22.0828.33560	B06
24	284.22.0828.36843	B08
26	284.22.0828.55480	B10
28	284.22.0829.03010	B12
30	284.22.0829.11780	B14
32	284.22.0829.18210	B16
34	284.22.0829.25590	B18
36	284.22.0829.29360	B20
38	283.22.1117.07761	B22
40	283.22.1117.09371	C02
42	283.22.1117.07044	C04
44	283.22.1117.08698	D02
46	284.22.0829.49440	J01HJ
48	284.22.0829.52623	J02HJ
50	283.22.1117.09761	J03HJ

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Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 22-8296
Job Description: Hagan	
Address:	

Item	Drawing Number	Truss
51	283.22.1117.09542	J04
53	283.22.1117.08355	J06
55	283.22.1117.09042	J08
57	283.22.1117.09621	J10
59	283.22.1117.09245	PB01
61	283.22.1117.07949	PB03
63	283.22.1117.09901	PB05
65	283.22.1117.08902	PB07
67	BRCLBSUB0119	
69	PB160160118	

Item	Drawing Number	Truss
52	283.22.1117.08200	J05
54	283.22.1117.08465	J07
56	283.22.1117.08964	J09
58	283.22.1117.09433	J11
60	283.22.1117.08730	PB02
62	283.22.1117.07951	PB04
64	283.22.1117.06746	PB06
66	A14015ENC160118	
68	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

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.

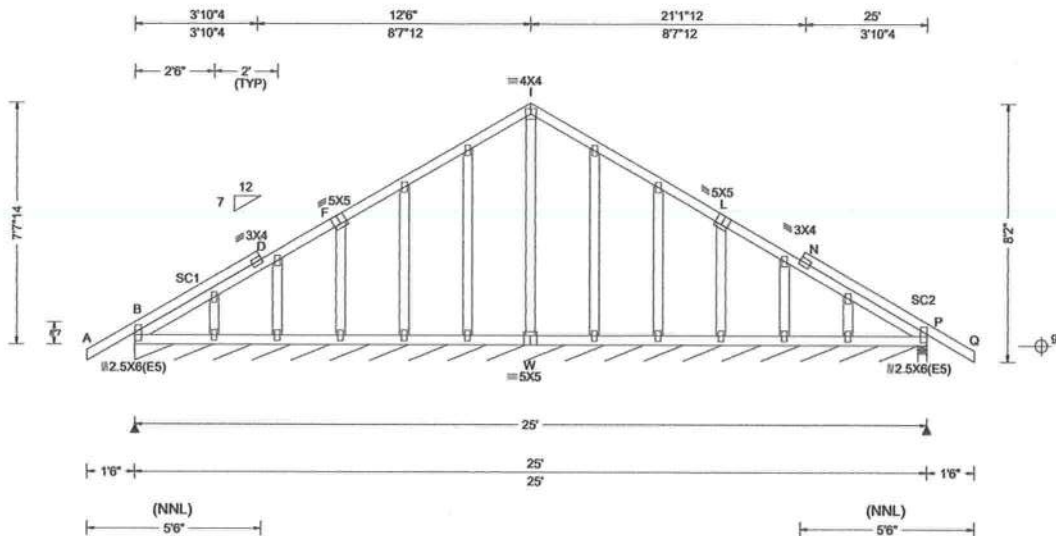
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.
 2. ICC: International Code Council; www.iccsafe.org.
 3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
 4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.
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SEQN: 116611 / FROM:	GABL Qty: 1	Ply: 1 Job Number: 22-8296 Hagan Truss Label: A01	Cust: R 215 JRef: 1XJO2150005 T1 DrwNo: 283.22.1117.06668 AK / WHK 10/10/2022
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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	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): 0.001 D 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 D 999 180	B* 81 /- /- /44 /14 /9
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 N - -	P 268 /- /- /168 /26 /-
Des Ld: 40.00	EXP: C Kzt: NA	Building Code:	HORZ(TL): 0.005 N - -	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	FBC 7th Ed. 2020 Res.	Creep Factor: 2.0	B Brg Wid = 296 Min Req = -
Soffit: 0.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.248	P Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.25	BCDL: 5.0 psf	Rep Fac: Yes	Max BC CSI: 0.041	Bearings B & P are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT: 20(0)/10(0)	Max Web CSI: 0.124	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	Plate Type(s):	VIEW Ver: 21.02.00.1005.17	
	Loc. from endwall: Any	WAVE		
	GCpi: 0.18			
	Wind Duration: 1.60			

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

Additional Notes

See DWGS A14015ENC160118 & GBLETIN0118 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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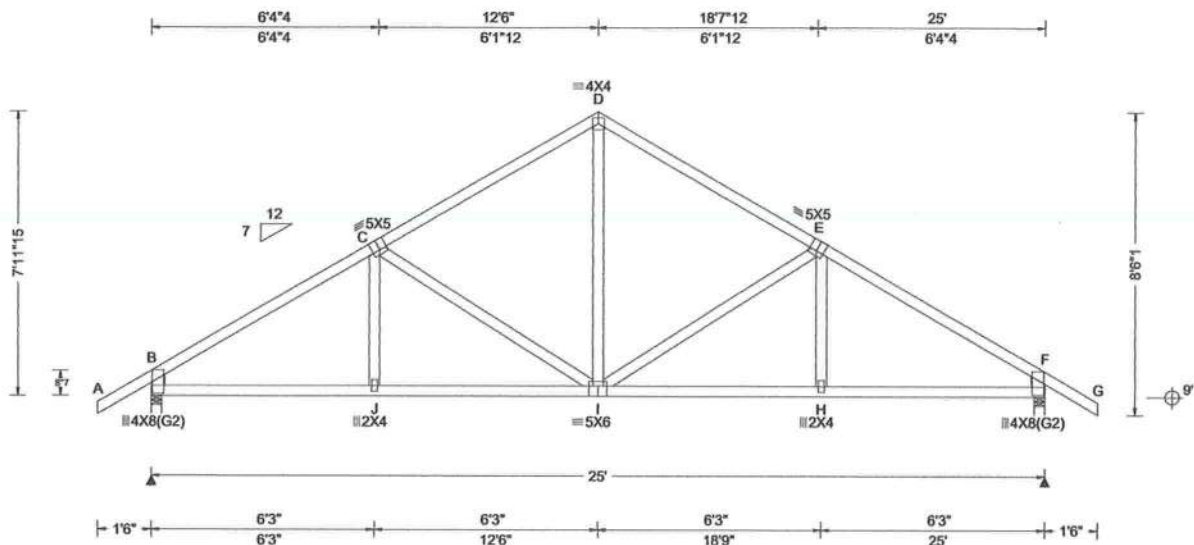
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: sbacompoments.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

SEQN: 116613 / FROM:	COMN Ply: 1 Qty: 8	Job Number: 22-8296 Hagan Truss Label: A02	Cust: R215 JRef: 1XJO2150005 T7 DrwNo: 283.22.1117.07043 AK / WHK 10/10/2022
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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 GCpl: 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 I 999 240 VERT(CL): 0.106 I 999 180 HORZ(LL): 0.024 F - - HORZ(TL): 0.048 F - - Creep Factor: 2.0 Max TC CSI: 0.476 Max BC CSI: 0.477 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1134 - / - /680 /196 /232 F 1134 - / - /680 /196 - Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 443 -1553 D - E 419 -1106 C - D 418 -1106 E - F 443 -1553

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3; Rt Stub Wedge: 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.
B - J	1243 -237	I - H	1241 -250
J - I	1241 -238	H - F	1243 -250

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	234 -444	I - E	234 -444
D - I	629 -190		



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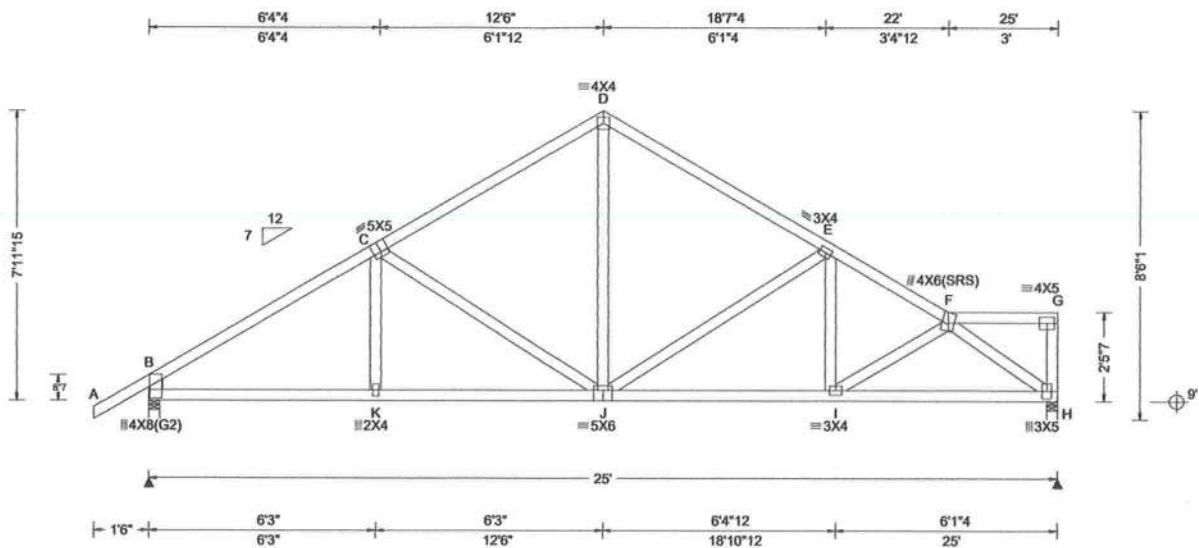
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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Glenview, IL 60025

SEQN: 116615 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A03	Cust: R 215 JRef: 1XJO2150005 T19 DrwNo: 283.22.1117.07667 AK / WHK 10/10/2022
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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): 0.051 J 999 240 VERT(CL): 0.104 J 999 180 HORZ(LL): 0.024 H - - HORZ(TL): 0.050 H - - Creep Factor: 2.0 Max TC CSI: 0.478 Max BC CSI: 0.492 Max Web CSI: 0.471 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1137 -/- /683 /17 /204 H 1037 -/- /552 /18 -/ Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 302 -1558 D - E 297 -1108 C - D 299 -1111 E - F 327 -1484

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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 - K	1247 -245	J - I	1250 -251
K - J	1245 -246	I - H	1251 -324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	167 -443	J - E	173 -449
D - J	629 -127	F - H	398 -1528



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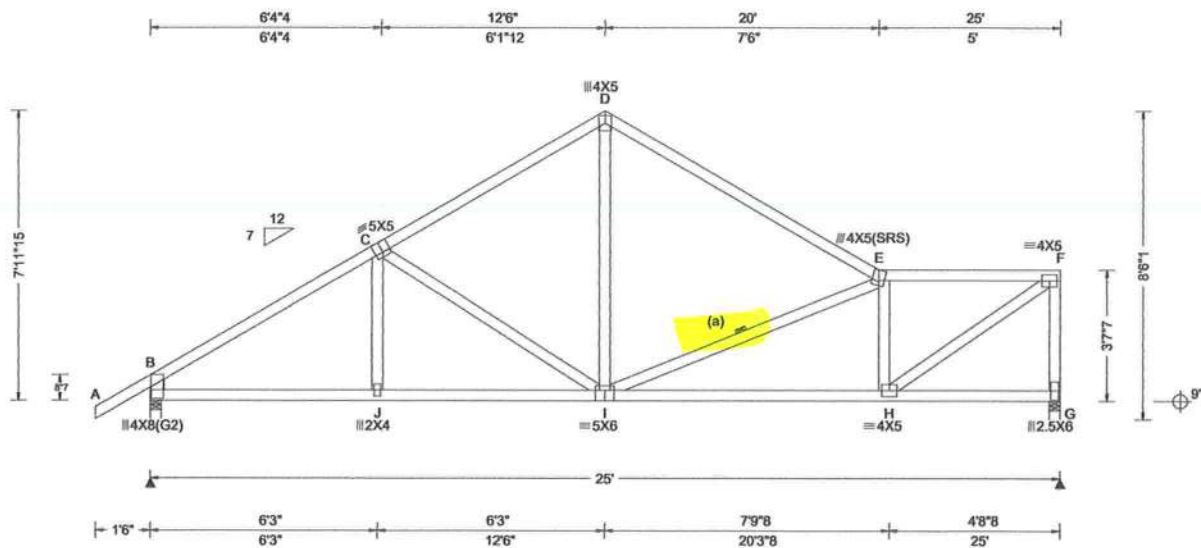
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116617 / FROM:	COMN Qty: 1	Ply: 1 Job Number: 22-8296 Hagan Truss Label: A04	Cust: R215 JRef: 1XJO2150005 T24 DrwNo: 283.22.1117.08370 AK / WHK 10/10/2022
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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 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 I 999 240 VERT(CL): 0.109 I 999 180 HORZ(LL): 0.020 G - - HORZ(TL): 0.041 G - - Creep Factor: 2.0 Max TC CSI: 0.586 Max BC CSI: 0.595 Max Web CSI: 0.586 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1137 /- /- /688 /18 /204 G 1037 /- /- /537 /58 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 315 -1554 D - E 304 -1142 C - D 313 -1117 E - F 362 -1264

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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



COA #0378

Florida Certificate of Product Approval #FL 1999

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

Lumber	C - D	334	-1107	E - F	398	-1182
Top chord: 2x4 SP #2; T4 2x4 SP M-31;	Maximum Bot Chord Forces Per Ply (lbs)					
Bot chord: 2x4 SP #2;	Chords	Tens.Comp.		Chords	Tens. Comp.	
Webs: 2x4 SP #3;	B - J	1250	-361	I - H	1224	-419
Lt Stub Wedge: 2x4 SP #3;	J - I	1248	-361			
Purlins	Maximum Web Forces Per Ply (lbs)					
In lieu of structural panels use purlins to brace all flat	Webs	Tens.Comp.		Webs	Tens. Comp.	
TC @ 24" oc.	C - I	171	-455	E - H	341	-654
Wind	D - I	660	-203	H - F	1422	-478
Wind loads based on MWFRS with additional C&C	I - E	259	-459	F - G	462	-980
member design.						
Right end vertical not exposed to wind pressure.						
Wind loading based on both gable and hip roof types.						

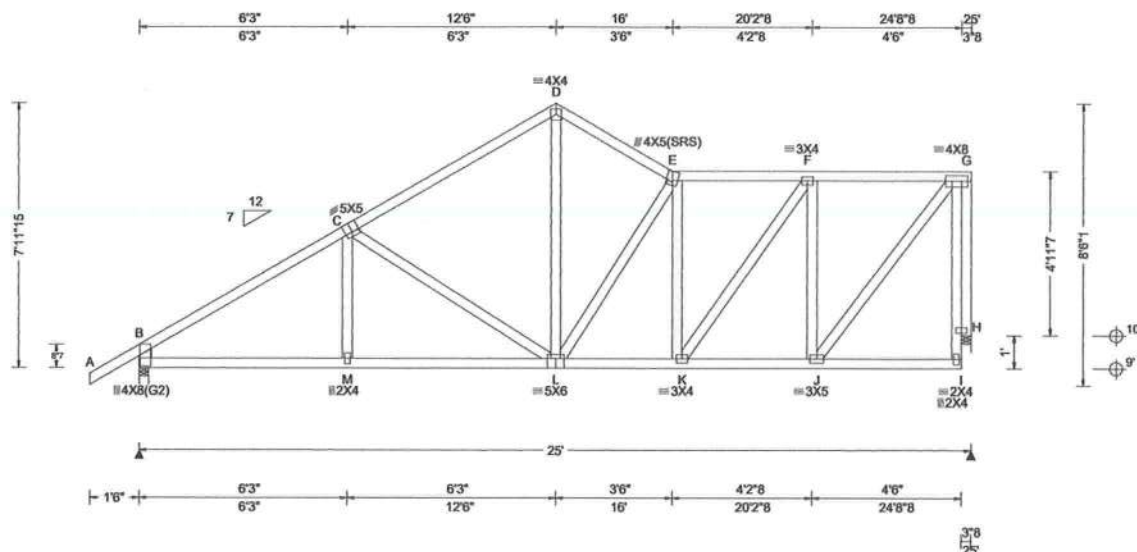


Florida Certificate of Product Approval #FL 1999

ALPINE
AN ITW COMPANY

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

SEQN: 117549 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A06	Cust: R 215 JRef: 1XJO2150005 T18 DrwNo: 283.22.1117.07653 AK / WHK 10/10/2022
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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):	0.049	L	999	240	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL):	0.100	L	999	180	B	1129	/- /-	/700	/38	/204
BCDL: 10.00	Risk Category: II	Snow Duration: NA			HORZ(LL):	0.017	I	-	-	H	1039	/- /-	/559	/136	/-
Des Ld: 40.00	EXP: C Kzt: NA	Building Code:			HORZ(TL):	0.035	I	-	-	Wind reactions based on MWFRS					
NCBCLL: 10.00	Mean Height: 15.00 ft	FBC 7th Ed. 2020 Res.			Creep Factor: 2.0					B	Brg Wid = 3.5	Min Req = 1.5	(Truss)		
Soffit: 0.00	TCDL: 5.0 psf	TPI Std: 2014			Max TC CSI:	0.472				H	Brg Wid = 3.5	Min Req = 1.5	(Support)		
Load Duration: 1.25	BCDL: 5.0 psf	Rep Fac: Yes			Max BC CSI:	0.474				Bearings B & H are a rigid surface.					
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	FT/RT:20(0)/10(0)			Max Web CSI:	0.482				Members not listed have forces less than 375#					
	C&C Dist a: 3.00 ft	Plate Type(s):			VIEW Ver: 21.02.00B.1108.20					Maximum Top Chord Forces Per Ply (lbs)					
	Loc. from endwall: not in 9.00 ft	WAVE								Chords	Tens.Comp.	Chords	Tens. Comp.		
	GCpi: 0.18									B - C	357 - 1547	E - F	391	- 1018	
	Wind Duration: 1.60									C - D	358 - 1091	F - G	303	- 685	
										D - E	372 - 1026				
Lumber															

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Bearing Leg: 2x4 SP #3;
Lt Stub Wedge: 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

10/11/2022
Florida Certificate of Product Approval #FL 1999

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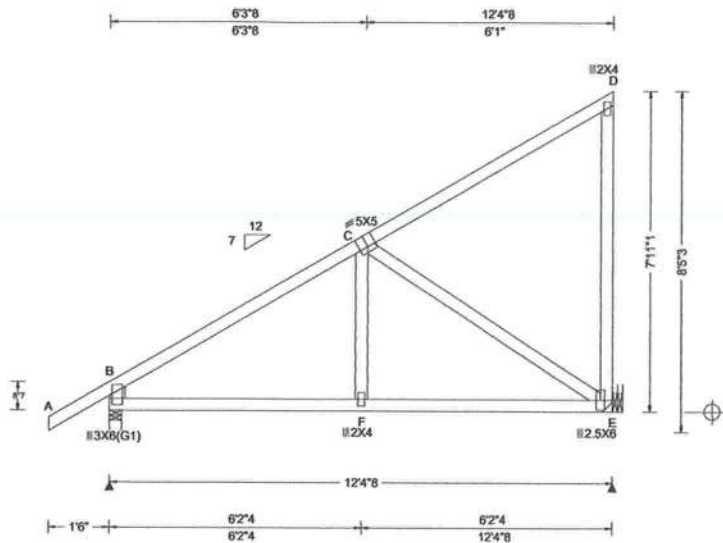
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 117628 / FROM:	MONO Qty: 12	Ply: 1 Job Number: 22-8296 Hagan Truss Label: A07	Cust: R 215 JRef: 1XJO2150005 T48 DrwNo: 283.22.1117.08855 AK / WHK 10/10/2022
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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): 0.009 F 999 240 VERT(CL): 0.018 F 999 180 HORZ(LL): 0.005 E - - HORZ(TL): 0.009 E - - Creep Factor: 2.0 Max TC CSI: 0.635 Max BC CSI: 0.496 Max Web CSI: 0.557 VIEW Ver: 21.02.00B.1108.20	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 615 /- /- /406 /- /202 E 509 /- /- /375 /85 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 4 -639

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - F	470 -255	F - E	467 -256

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	307 -559



COA #0278

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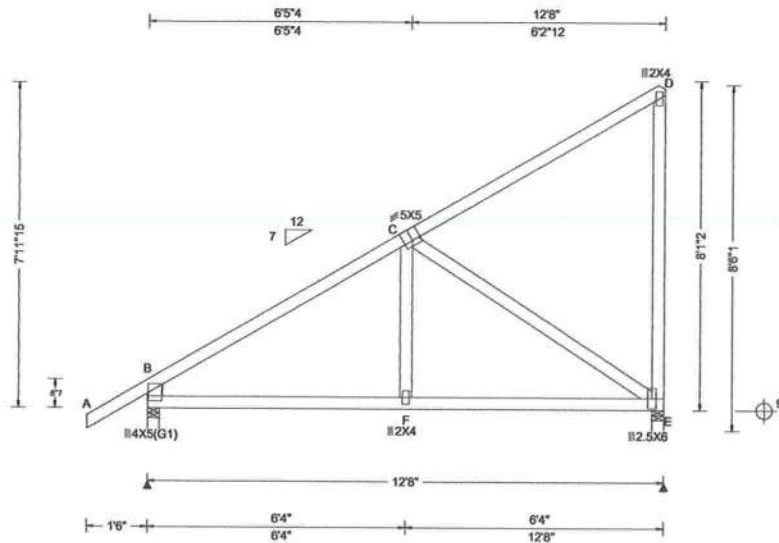
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 117625 / FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A07A	Cust: R215 JRef: 1XJO2150005 T47 DrwNo: 283.22.1117.07589 AK / WHK 10/10/2022
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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): 0.009 F 999 240 VERT(CL): 0.019 F 999 180 HORZ(LL): 0.005 E - - HORZ(TL): 0.010 E - - Creep Factor: 2.0 Max TC CSI: 0.667 Max BC CSI: 0.521 Max Web CSI: 0.599 VIEW Ver: 21.02.00B.1108.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 627 /- /- /413 /- /205 E 521 /- /- /378 /85 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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 6 -656

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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	483 -255	F - E	479 -256

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C - E	306 -574



COA #0278

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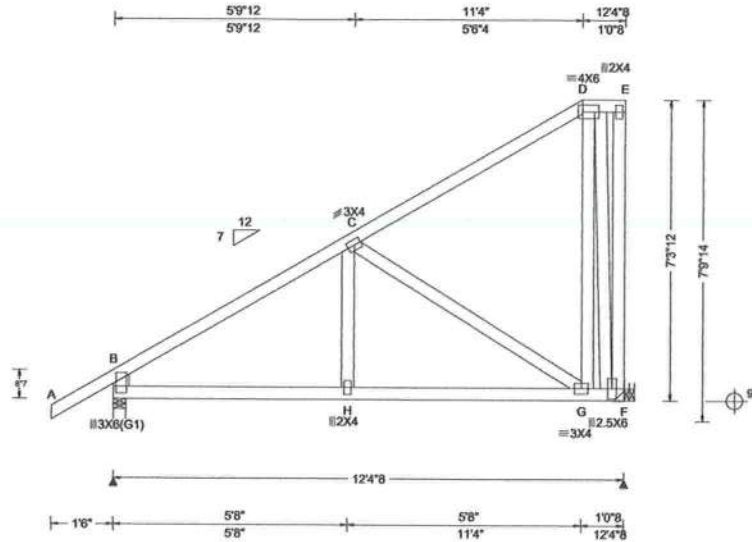
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116630 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A08	Cust: R 215 JRef: 1XJO2150005 T49 DrwNo: 283.22.1117.08777 AK / WHK 10/10/2022
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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): 0.012 H 999 240 VERT(CL): 0.024 H 999 180 HORZ(LL): 0.004 F - - HORZ(TL): 0.009 F - - Creep Factor: 2.0 Max TC CSI: 0.419 Max BC CSI: 0.314 Max Web CSI: 0.474 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 615 /- /- /410 /- /187 F 509 /- /- /355 /87 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 46 -653

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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 #0278

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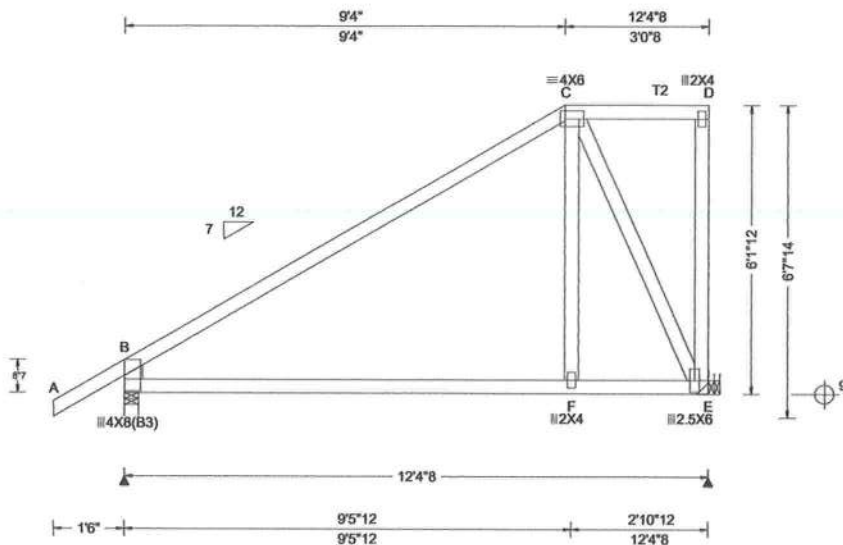
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116633 / FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A09	Cust: R215 JRef: 1XJO2150005 T56 DrwNo: 283.22.1117.07480 AK / WHK 10/10/2022
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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): -0.005 C 999 240 VERT(CL): -0.010 C 999 180 HORZ(LL): 0.024 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.594 Max BC CSI: 0.764 Max Web CSI: 0.418 VIEW Ver: 21.02.00.1005.17	Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 615 /- /- /412 /6 /156 E 509 /- /- /321 /90 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 43 -443

Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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 #0278

Florida Certificate of Product Approval #FL 1999

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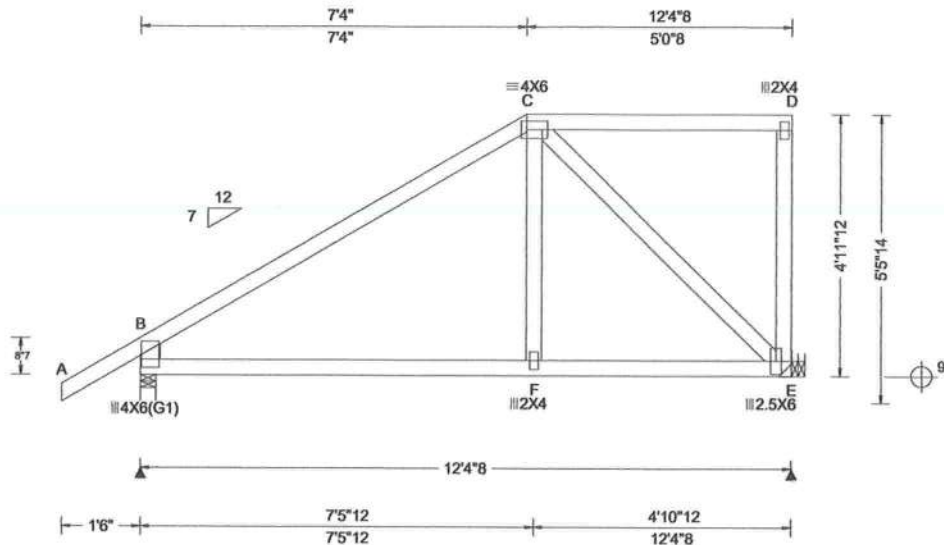
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116636 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A10	Cust: R 215 JRef: 1XJO2150005 T51 DrwNo: 283.22.1117.08277 AK / WHK 10/10/2022
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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): 0.003 F 999 240 VERT(CL): 0.004 F 999 180 HORZ(LL): 0.012 B - - HORZ(TL): 0.024 B - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.538 Max Web CSI: 0.403 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 615 /- /- /409 /26 /126 E 509 /- /- /294 /92 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 181 -541

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.



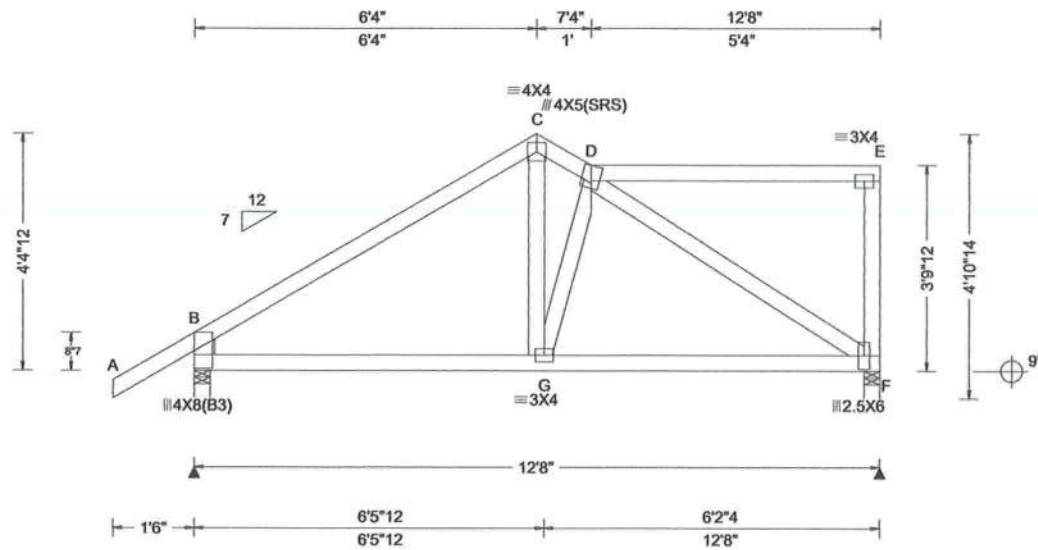
COA #0278

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

SEQN: 116638 / FROM:	COMN Qty: 1	Ply: 1	Job Number: 22-8296 Hagan Truss Label: A11	Cust: R 215 JRef: 1XJO2150005 T32 DrwNo: 283.22.1117.09168 AK / WHK 10/10/2022
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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): 0.009 D 999 240 VERT(CL): 0.018 D 999 180 HORZ(LL): 0.005 F - - HORZ(TL): 0.010 F - - Creep Factor: 2.0 Max TC CSI: 0.406 Max BC CSI: 0.416 Max Web CSI: 0.447 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 627 /- /- /405 /96 /135 F 521 /- /- /285 /108 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 255 -637 C - D 347 -533

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.



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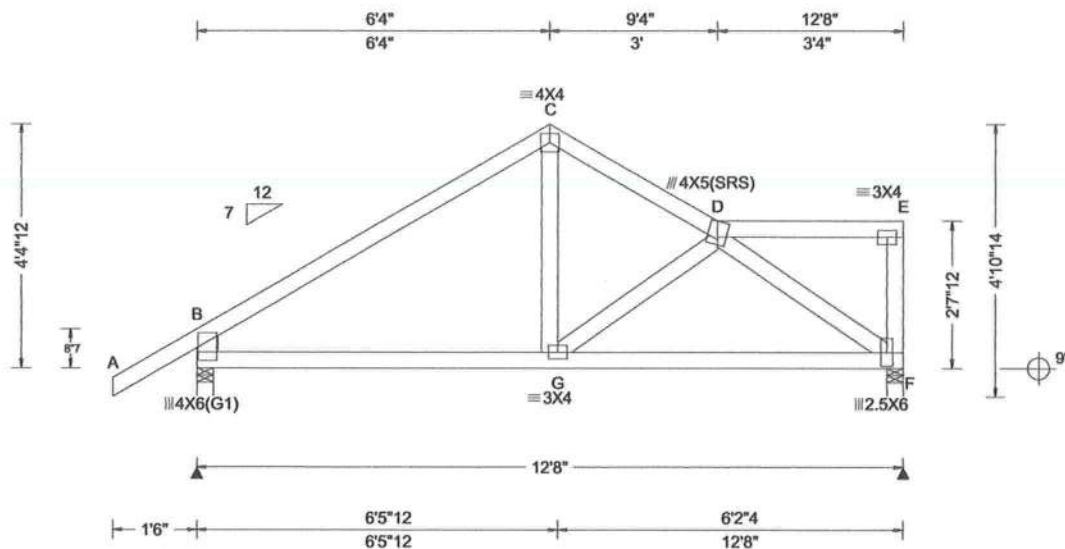
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 116640 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: A12	Cust: R215 JRef: 1XJO2150005 T9 DrwNo: 283.22.1117.06653 AK / WHK 10/10/2022
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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): 0.008 D 999 240 VERT(CL): 0.016 D 999 180 HORZ(LL): 0.005 F - - HORZ(TL): 0.010 F - - Creep Factor: 2.0 Max TC CSI: 0.402 Max BC CSI: 0.418 Max Web CSI: 0.217 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 627 /- /- /395 /105 /111 F 521 /- /- /275 /96 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 214 -635 C - D 244 -562

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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 - G	456 -175	G - F	536 -294

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D - F	356 -646



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10/11/2022
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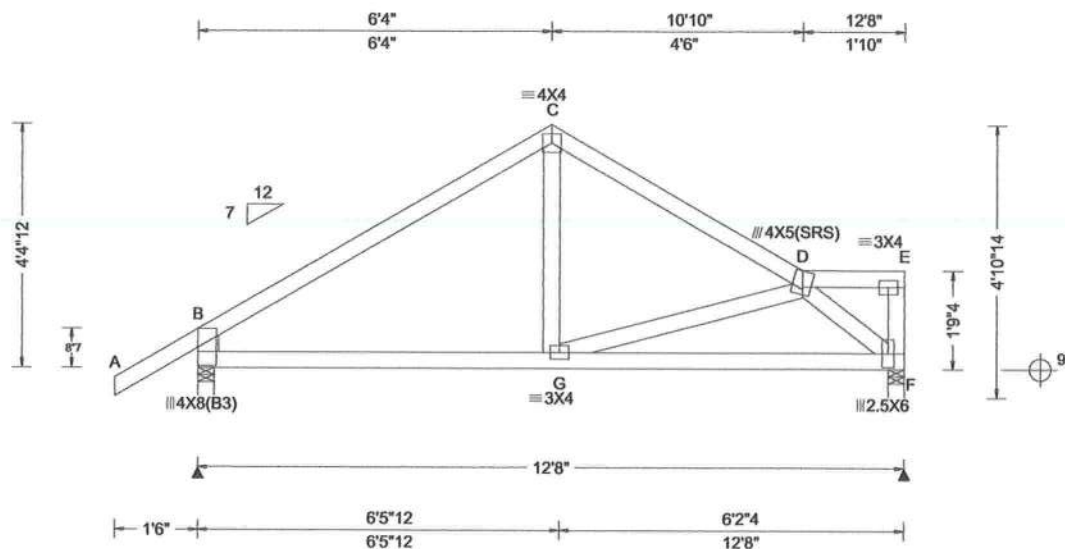
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North Building, 4th Floor
Glenview, IL 60025



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): 0.008 G 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.015 G 999 180	B 627 /- /- /390 /109 /111
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 F - -	F 521 /- /- /274 /89 /-
	EXP: C Kzt: NA		HORZ(TL): 0.010 F - -	Wind reactions based on MWFRS
Des Ld: 40.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 1.5 (Truss)
NCBCLL: 10.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.385	F Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 0.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.414	Bearings B & F are a rigid surface.
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.140	Members not listed have forces less than 375#
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 201 -638 C - D 214 -597
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.	
B - G	461	-124	G - F	549	-262

Maximum Web Forces Per Ply (lbs)		
Webs	Tens.Comp.	
D - F	340	-695



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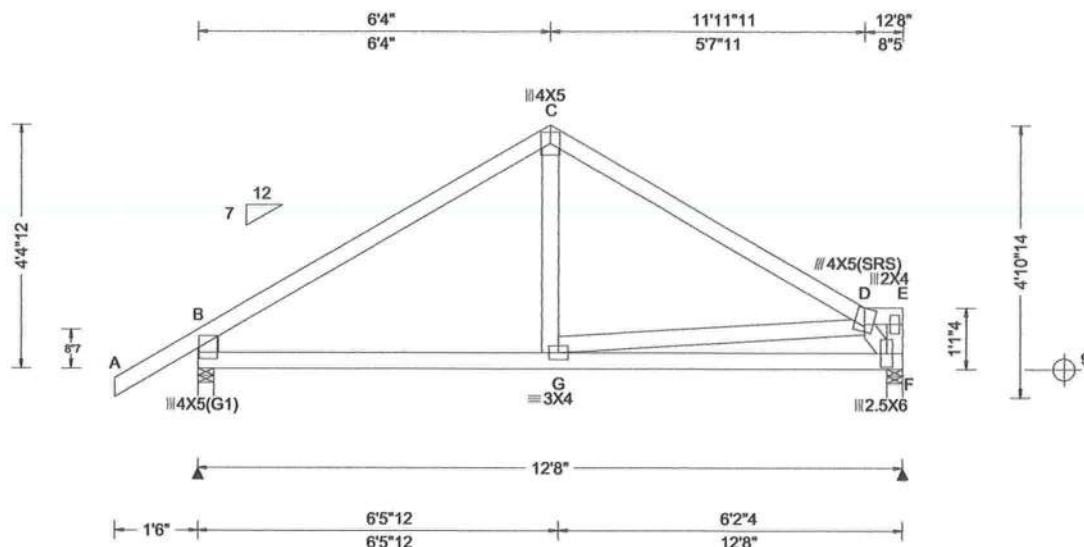
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116644 / FROM:	COMN Qty: 1	Ply: 1 Job Number: 22-8296 Hagan Truss Label: A14	Cust: R 215 JRef: 1XJO2150005 T60 DrwNo: 283.22.1117.08466 AK / WHK 10/10/2022
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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): 0.007 G 999 240 VERT(CL): 0.014 G 999 180 HORZ(LL): 0.005 F - - HORZ(TL): 0.010 F - - Creep Factor: 2.0 Max TC CSI: 0.389 Max BC CSI: 0.413 Max Web CSI: 0.138 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 627 /- /- /388 /111 /117 F 521 /- /- /289 /85 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 200 -643 C - D 203 -626

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.



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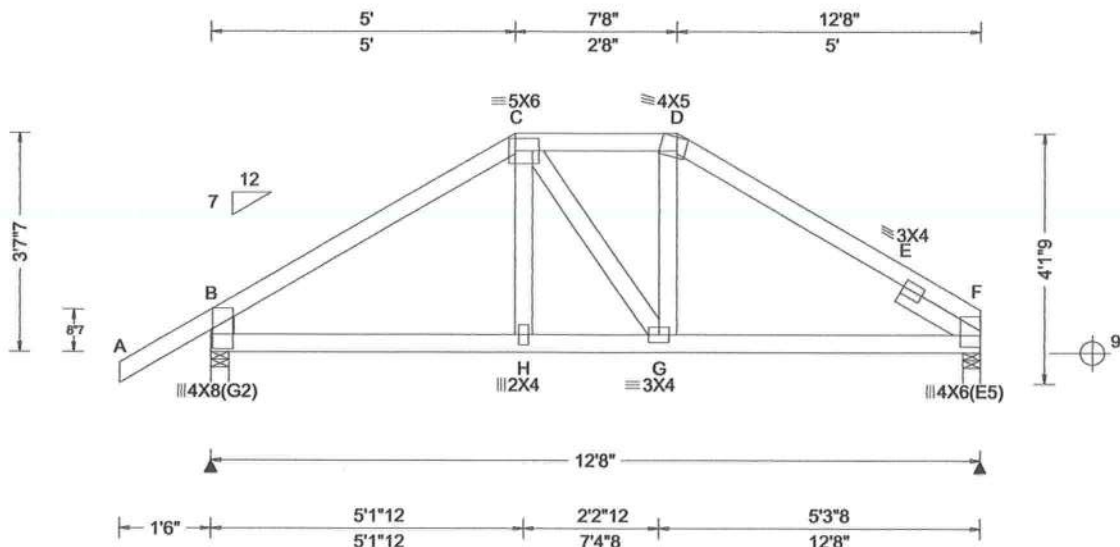
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116657 / FROM:	HIPS Qty: 1	Job Number: 22-8296 Hagan Truss Label: A15	Cust: R 215 JRef: 1XJO2150005 T5 DrwNo: 283.22.1117.06667 AK / WHK 10/10/2022
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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/def L/#		Gravity			Non-Gravity				
TCDL: 10.00		Speed: 130 mph		Pf: NA Ce: NA			VERT(LL): 0.030 H 999 240		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA			VERT(CL): 0.061 H 999 180		B	1222	-/-	-/-	-/-	/264	-/-	
BCDL: 10.00		Risk Category: II		Snow Duration: NA			HORZ(LL): 0.013 F - -		F	1116	-/-	-/-	-/-	/224	-/-	
Des Ld: 40.00		EXP: C Kzt: 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			HORZ(TL): 0.026 F - -		Wind reactions based on MWFRS							
NCBCLL: 10.00		Mean Height: 15.00 ft					Creep Factor: 2.0		B Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: 5.0 psf					Max TC CSI: 0.529		F Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Load Duration: 1.25		BCDL: 5.0 psf					Max BC CSI: 0.721		Bearings B & F are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2					Max Web CSI: 0.153		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft							Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 4.50 ft							Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18														
		Wind Duration: 1.60														
							VIEW Ver: 21.02.00.1005.17									
									B - C		369 -1700		D - E		364 -1694	
									C - D		290 -1426		E - F		381 -1738	

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Rt Slider: 2x4 SP #3; block length = 1.500'
 Lt Stub Wedge: 2x4 SP #3;

Special Loads

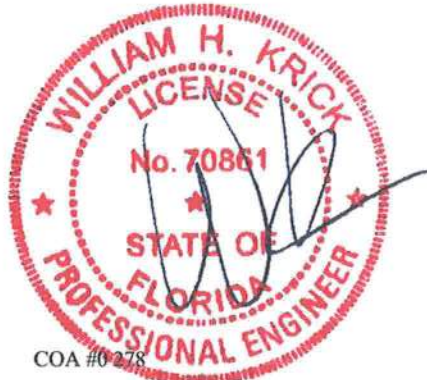
—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 63 plf at -1.50 to 63 plf at 5.00
 TC: From 32 plf at 5.00 to 32 plf at 7.67
 TC: From 63 plf at 7.67 to 63 plf at 12.67
 BC: From 20 plf at 0.00 to 20 plf at 5.03
 BC: From 10 plf at 5.03 to 10 plf at 7.64
 BC: From 20 plf at 7.64 to 20 plf at 12.67
 TC: 323 lb Conc. Load at 5.03, 7.64
 TC: 137 lb Conc. Load at 6.33
 BC: 212 lb Conc. Load at 5.03, 7.64
 BC: 95 lb Conc. Load at 6.33

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.



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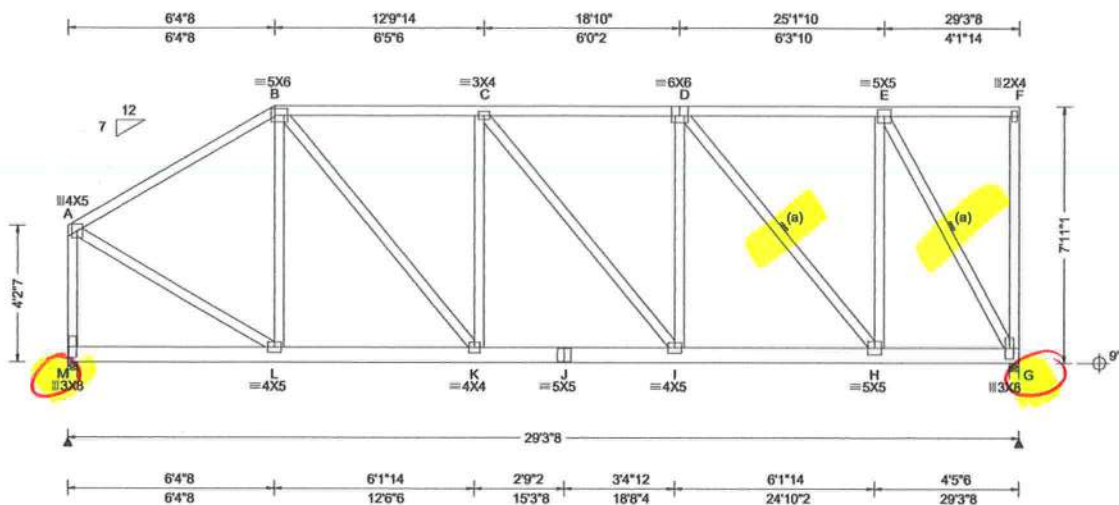
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ALPINE
 AN ITW COMPANY
 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 119739	COMN	Ply: 2	Job Number: 22-8296	Cust: R215	JRef: 1XJO2150005	T66
FROM:		Qty: 1	Hagan	DrwNo: 284.22.0828.16430		
			Truss Label: B01	AK / WHK	10/11/2022	

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCCL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Gravity Non-Gravity
TCCL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.073 I 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCCL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.146 I 999 180	M 4244 -/- -/- -/- /721 -/-
BCCL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.022 B - -	G 4606 -/- -/- -/- /769 -/-
Des Ld: 40.00	EXP: C Kzt: NA	Building Code:	HORZ(TL): 0.045 B - -	Wind reactions based on MWFRS
NCBCL: 0.00	Mean Height: 15.06 ft	FBC 7th Ed. 2020 Res.	Creep Factor: 2.0	M Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 0.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.277	G Brg Wid = 3.5 Min Req = 1.9 (Truss)
Load Duration: 1.25	BCDL: 5.0 psf	Rep Fac: No	Max BC CSI: 0.294	Bearings M & G are a rigid surface.
Spacing: 24.0"	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.761	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	Plate Type(s):	VIEW Ver: 21.02.00.1005.17	Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft	WAVE		Chords Tens.Comp. Chords Tens. Comp.
	GCpl: 0.18			A - B 304 -1778 C - D 336 -2013
	Wind Duration: 1.60			B - C 355 -2121 D - E 192 -1151

Lumber

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

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 @ 6.00" 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 32 plf at 0.00 to 32 plf at 29.29
BC: From 10 plf at 0.00 to 10 plf at 29.29
BC: 509 lb Conc. Load at 1.40, 3.40, 5.40, 7.40
9.40, 11.40, 13.40, 15.40, 17.40, 19.40, 21.40, 23.40
25.40, 27.40, 28.56

Purlins

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

Wind

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



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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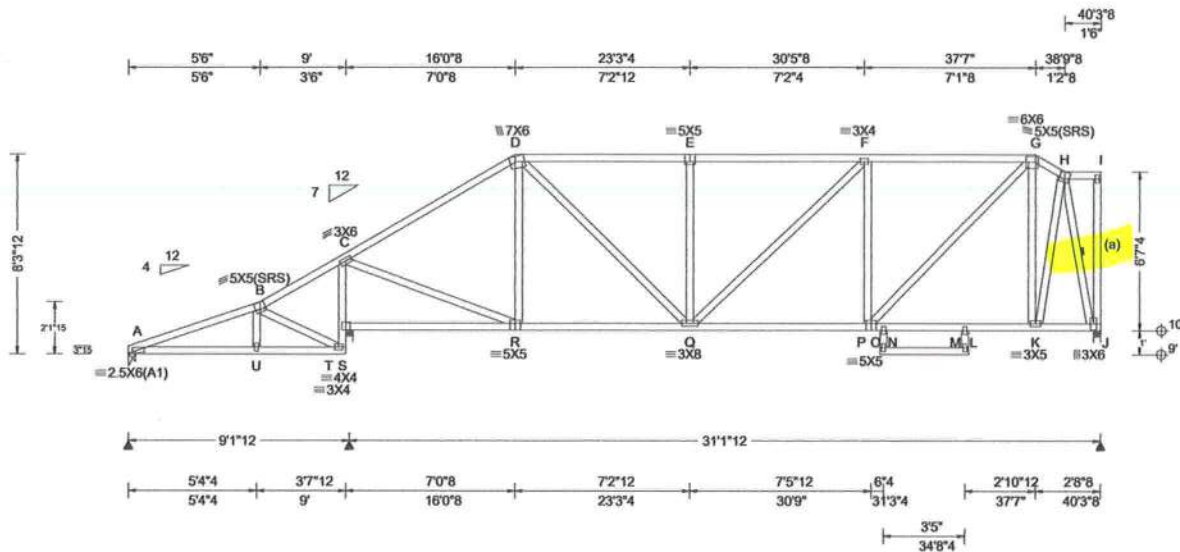
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119743 FROM:	COMN Qty: 1	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B02	Cust: R 215 JRef: 1XJO2150005 T42 DrwNo: 284.22.0828.26570 AK / WHK 10/11/2022
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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: 4.03 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): 0.066 E 999 240 VERT(CL): 0.135 E 999 180 HORZ(LL): 0.014 D - - HORZ(TL): 0.032 D - - Creep Factor: 2.0 Max TC CSI: 0.606 Max BC CSI: 0.555 Max Web CSI: 0.815 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 332 /- /- /172 /- /257 S 1712 /- /- /1078 /379 /- J 1269 /- /- /647 /242 /- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 (Truss) S Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings A, 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.

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.

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 #00218

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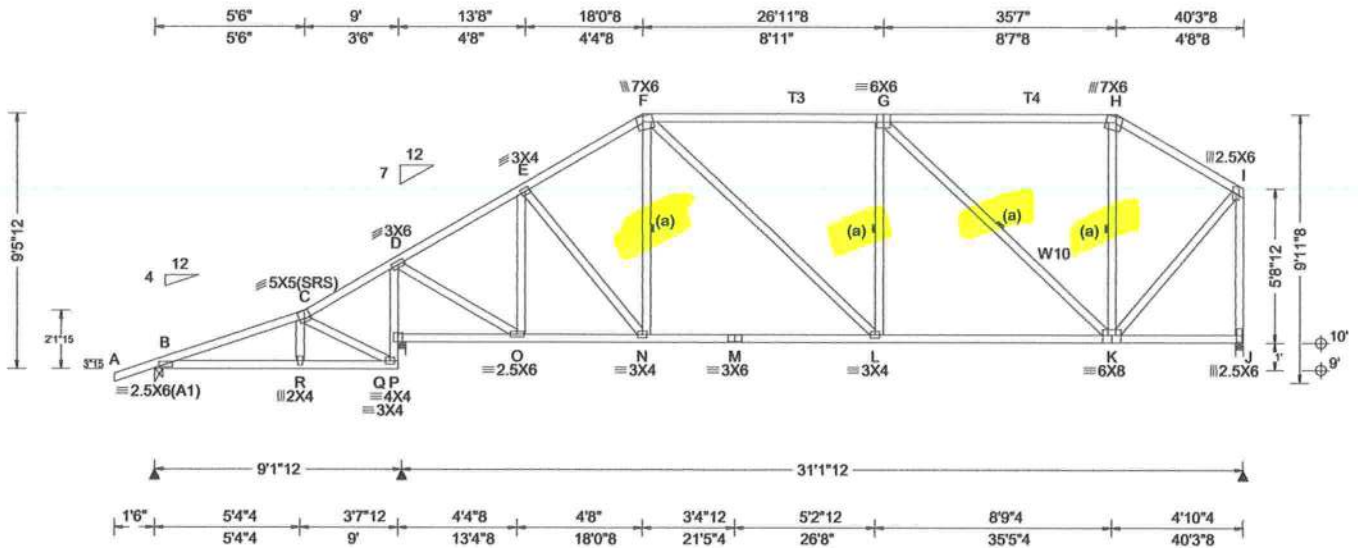
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119747 FROM:	SPEC Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B03	Cust: R 215 JRef: 1XJO2150005 T2 DrwNo: 284.22.0828.28970 AK / WHK 10/11/2022
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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: 4.03 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 in L/defl L/# VERT(LL): 0.044 G 999 240 VERT(CL): 0.089 G 999 180 HORZ(LL): 0.013 K - - HORZ(TL): 0.030 K - - Creep Factor: 2.0 Max TC CSI: 0.552 Max BC CSI: 0.767 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 438 /- /- /255 /29 /246 P 1689 /- /- /1089 /202 /- J 1281 /- /- /689 /121 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) P Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, P, & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2; T3,T4 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W10 2x4 SP M-31;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 - C	26	-438	F - G	536	-1262
D - E	317	-1118	G - H	328	-676
E - F	473	-1267	H - I	318	-835

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	376	-112	M - L	1046	-360
O - N	923	-314	L - K	1263	-442
N - M	1046	-360			

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Q	138	-474	G - K	339	-815
P - D	529	-1404	K - I	1013	-345
D - O	1064	-329	I - J	439	-1251
O - E	221	-493			

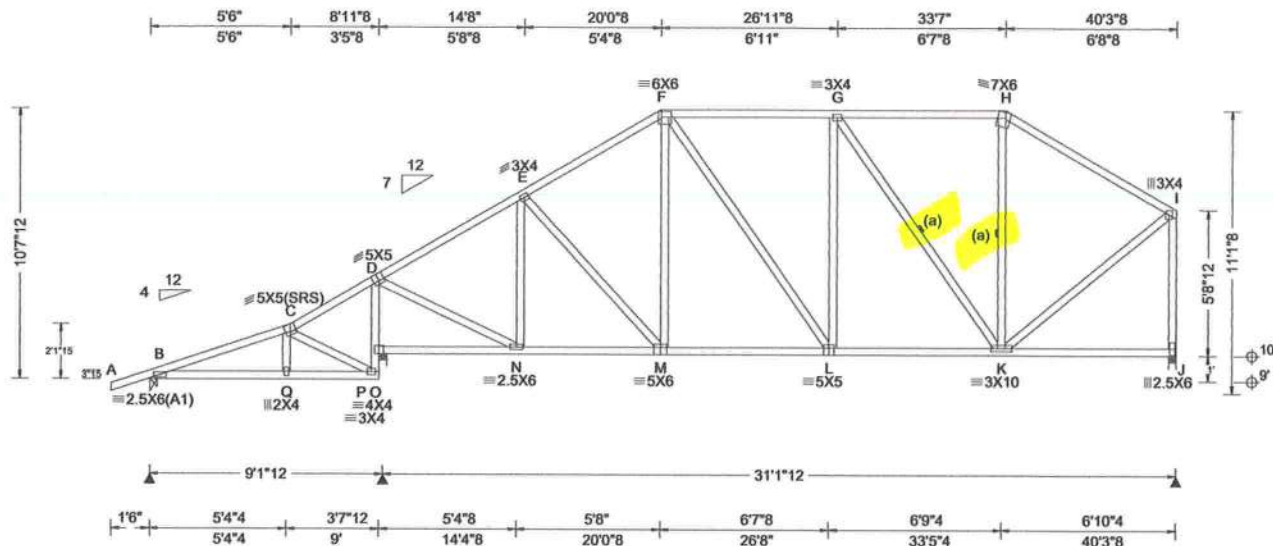


COA #0278

10/11/2022
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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: 4.03 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): 0.041 L 999 240 VERT(CL): 0.083 L 999 180 HORZ(LL): 0.010 K - - HORZ(TL): 0.023 K - - Creep Factor: 2.0 Max TC CSI: 0.751 Max BC CSI: 0.553 Max Web CSI: 0.748 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 438 /- /- /241 /35 /278 O 1694 /- /- /1117 /199 /- J 1285 /- /- /704 /85 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, O, & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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

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.
N - M	996 -316	L - K	1078 -358
M - L	1007 -316		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	136 -471	G - K	245 -544
O - D	513 -1409	K - I	979 -301
D - N	1094 -316	I - J	422 -1231
N - E	208 -389		



COA #0278

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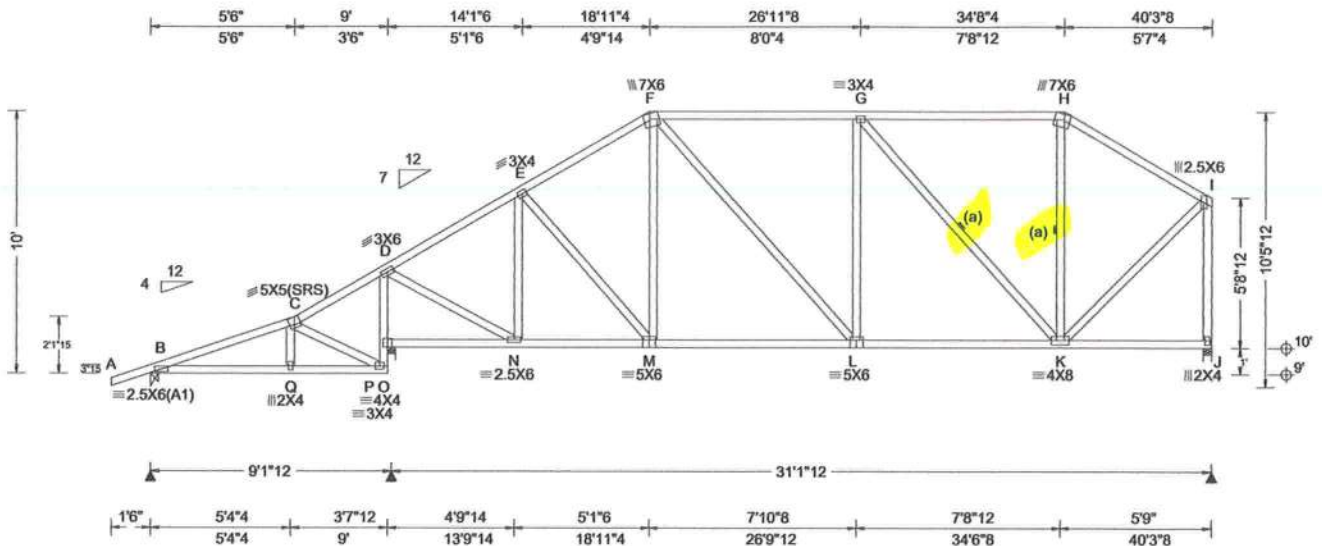
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119756 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B05	Cust: R 215 JRef: 1XJO2150005 T12 DrwNo: 284.22.0828.32220 AK / WHK 10/11/2022
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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: 4.03 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): 0.044 L 999 240 VERT(CL): 0.091 L 999 180 HORZ(LL): 0.012 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.758 Max BC CSI: 0.606 Max Web CSI: 0.759 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 437 /- /- /250 /31 /260 O 1699 /- /- /1104 /- /- J 1289 /- /- /689 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, O, & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

Wind loads based on MWFRS with additional C&C member design.
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.
N - M	962 0	L - K	1180 0
M - L	1038 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	142 -472	G - K	0 -689
O - D	136 -1415	K - I	1000 0
D - N	1086 0	I - J	0 -1248
N - E	36 -447		



COA #0278

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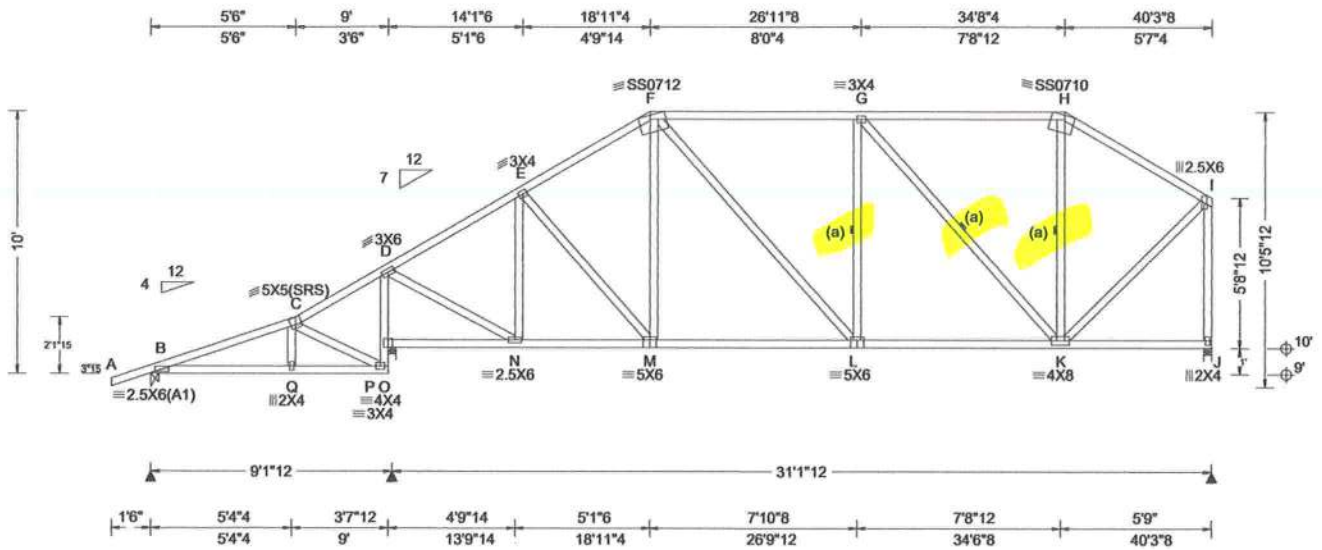
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119759 FROM:	COMN Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B06	Cust: R 215 JRef: 1XJO2150005 T36 DrwNo: 284.22.0828.33560 AK / WHK 10/11/2022
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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: 4.03 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, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.044 L 999 240 VERT(CL): 0.091 L 999 180 HORZ(LL): 0.012 K - - HORZ(TL): 0.027 K - - Creep Factor: 2.0 Max TC CSI: 0.768 Max BC CSI: 0.608 Max Web CSI: 0.762 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 437 /- /- /249 /32 /261 O 1703 /- /- /1108 /- /- J 1294 /- /- /696 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, O, & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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

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.
N - M	965	0	L - K 1186
M - L	1042	0	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	143	-472	G - K 0
O - D	136	-1419	K - I 1005
D - N	1089	0	I - J 0
N - E	36	-449	



COA #0278

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

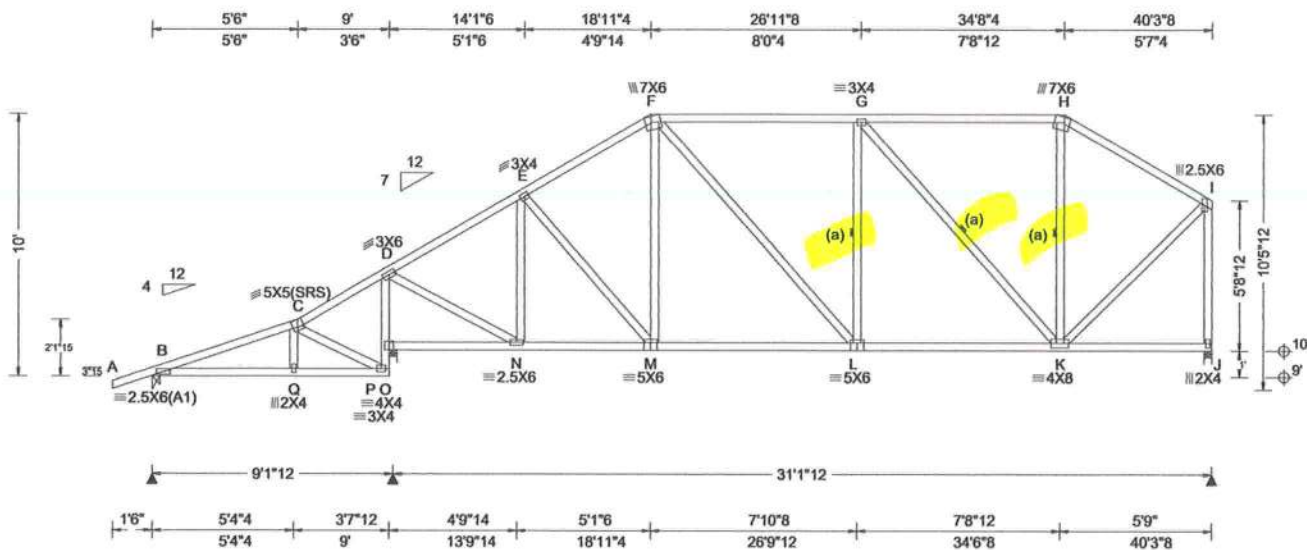
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



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



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: 4.03 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): 0.044 L 999 240 VERT(CL): 0.091 L 999 180 HORZ(LL): 0.012 K - - HORZ(TL): 0.027 K - - Creep Factor: 2.0 Max TC CSI: 0.762 Max BC CSI: 0.607 Max Web CSI: 0.760 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 437 /- /- /250 /31 /260 O 1701 /- /- /1106 /- /- J 1292 /- /- /692 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, O, & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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

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.
N - M	963	0	1183
M - L	1040	0	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	142	-472	0
O - D	135	-1417	1002
D - N	1087	0	0
N - E	36	-448	-1250



COA #0228

Florida Certificate of Product Approval #FL 1999

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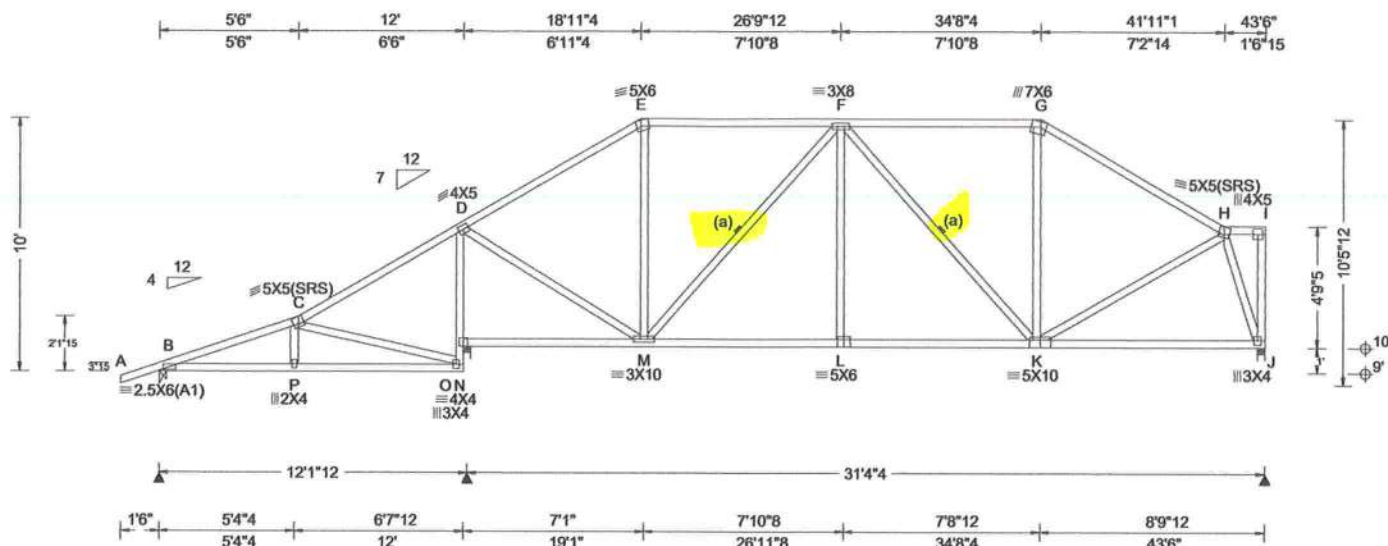
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119765 FROM:	COMN Qty: 1	Ply: 1 Job Number: 22-8296 Hagan Truss Label: B08	Cust: R 215 JRef: 1XJO2150005 T11 DrwNo: 284.22.0828.36843 AK / WHK 10/11/2022
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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: 4.35 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): 0.045 L 999 240 VERT(CL): 0.093 L 999 180 HORZ(LL): -0.010 M - - HORZ(TL): 0.024 J - - Creep Factor: 2.0 Max TC CSI: 0.689 Max BC CSI: 0.826 Max Web CSI: 0.834 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 537 /- /- /319 /30 /262 N 1865 /- /- /1195 /- /- J 1292 /- /- /723 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) N Brg Wid = 3.5 Min Req = 2.2 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, N, & 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.

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

Wind

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

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

Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - P	707 -173	L - K	1205 0
P - O	696 -178	K - J	453 -26
M - L	1205 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	194 -801	M - F	0 -552
N - D	109 -1530	K - H	633 0
D - M	1023 0	H - J	79 -1364

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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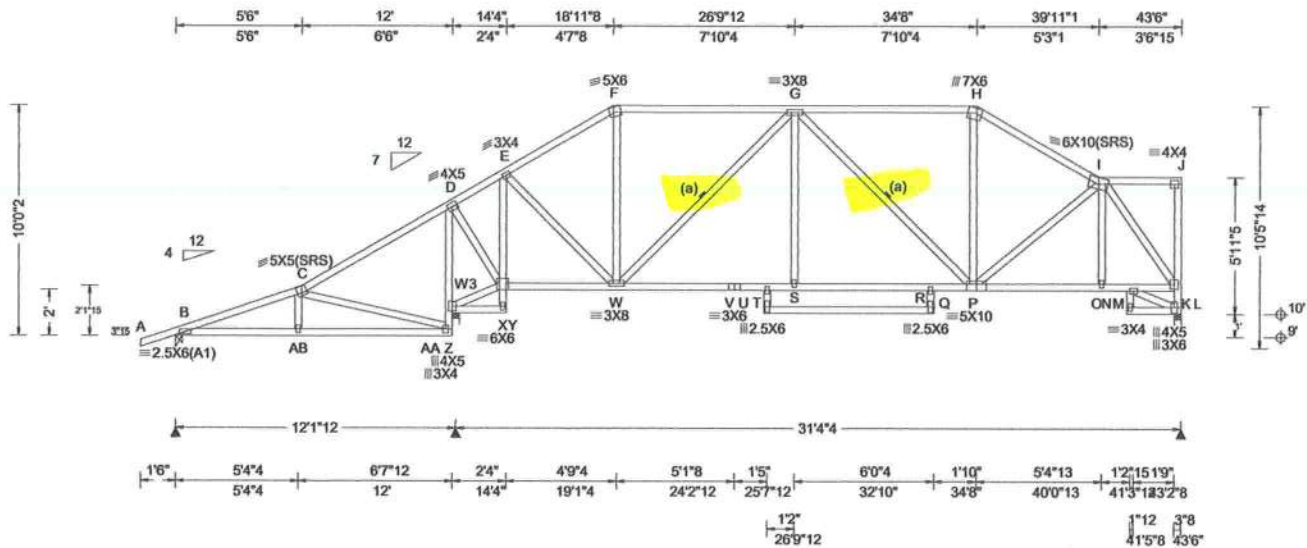
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119768 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B09	Cust: R 215 JRef: 1XJO2150005 T29 DrwNo: 284.22.0828.51330 AK / WHK 10/11/2022
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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: 4.35 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): 0.078 U 999 240 VERT(CL): 0.185 U 999 180 HORZ(LL): -0.018 X - - HORZ(TL): 0.043 N - - Creep Factor: 2.0 Max TC CSI: 0.759 Max BC CSI: 0.735 Max Web CSI: 0.891 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 537 /- /- /325 /21 /261 Z 1875 /- /- /1193 /52 /- K 1298 /- /- /703 /36 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 3.5 Min Req = 2.2 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Z, & 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.

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

Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.

B - AB	705	-169	S - R	1358	-184
AB-AA	694	-174	R - P	1372	-182
X - W	553	-70	P - O	906	-208
W - V	1372	-182	O - M	907	-206
V - T	1372	-182	M - L	907	-206
T - S	1358	-184			

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.

C - AA	199	-796	E - W	608	0
Z - D	303	-1536	W - G	229	-600
D - X	1037	-140	I - L	331	-1457
X - E	147	-818	L - K	343	-1278

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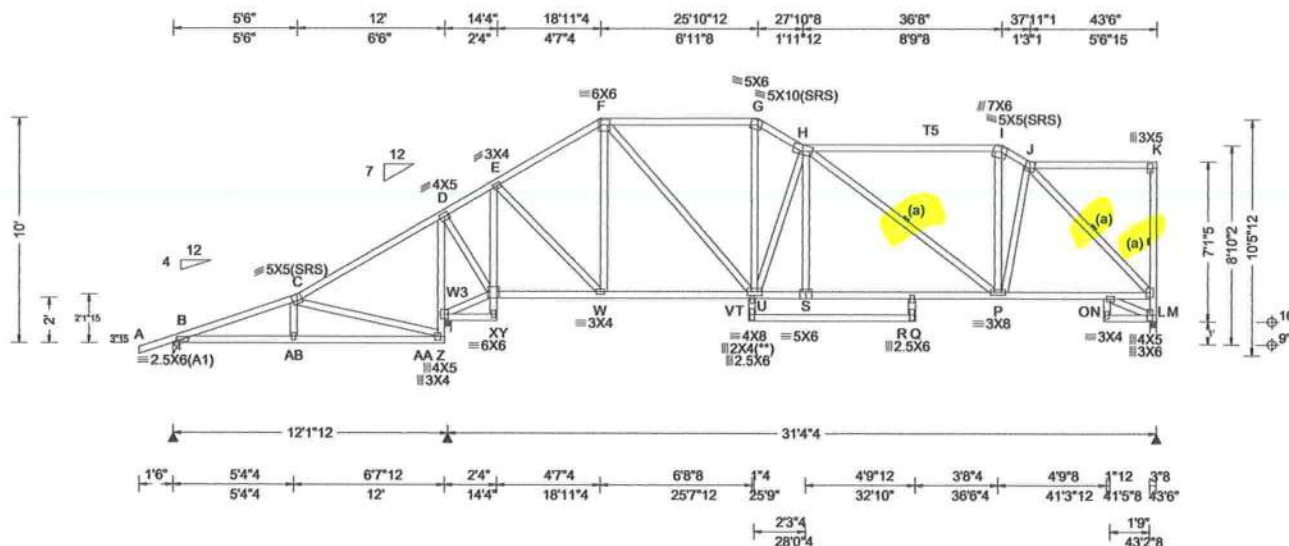
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119772 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B10	Cust: R 215 JRef: 1XJO2150005 T46 DrwNo: 284.22.0828.55480 AK / WHK 10/11/2022
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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: 4.35 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): 0.129 Q 999 240 VERT(CL): 0.344 Q 999 180 HORZ(LL): -0.020 X - - HORZ(TL): 0.040 X - - Creep Factor: 2.0 Max TC CSI: 0.651 Max BC CSI: 0.824 Max Web CSI: 0.784 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 525 /- /- /324 /4 /258 Z 1893 /- /- /1202 /63 /- L 1277 /- /- /656 /101 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 3.5 Min Req = 2.2 (Truss) L Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Z, & 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.

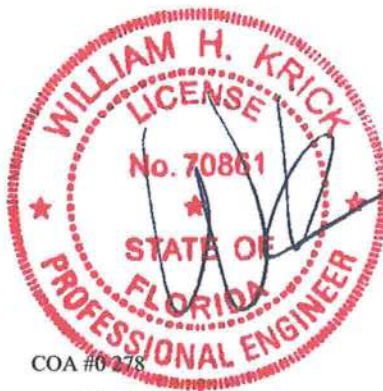
Lumber
Top chord: 2x4 SP #2; T5 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3 2x4 SP M-31;

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.

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

Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.

B - AB	672	-144	T - S	1542	-317
AB-AA	661	-148	S - R	1543	-316
X - W	516	-80	R - P	1564	-312
W - U	915	-88	P - N	1035	-297
U - T	894	-92	N - M	1025	-276

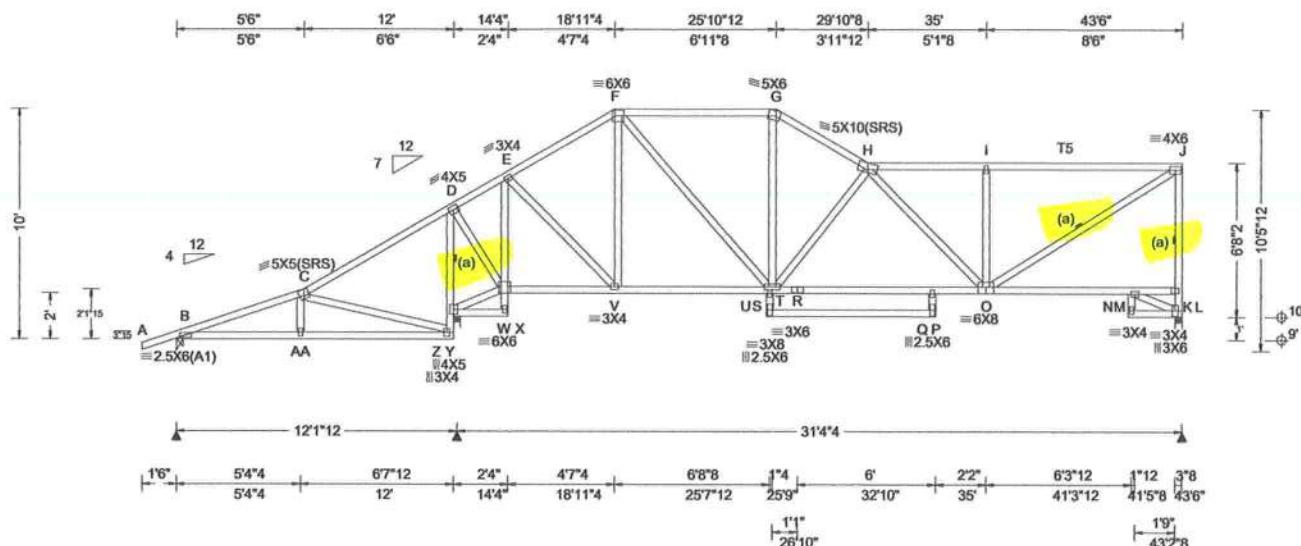
Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.

C - AA	176	-787	T - G	514	-307
Z - D	339	-1539	T - H	488	-870
D - X	1044	-164	H - P	8	-560
X - E	169	-837	J - M	428	-1479
E - W	623	-21	M - L	424	-1262
F - T	597	-162			

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

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

SEQN: 119785 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B11	Cust: R 215 JRef: 1XJO2150005 T40 DrwNo: 284.22.0828.58970 AK / WHK 10/11/2022
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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: 4.35 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): 0.092 P 999 240 VERT(CL): 0.216 N 999 180 HORZ(LL): 0.032 N - - HORZ(TL): 0.095 N - - Creep Factor: 2.0 Max TC CSI: 0.607 Max BC CSI: 0.762 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 533 /- /- /324 /10 /260 Y 1873 /- /- /1178 /164 /- K 1274 /- /- /659 /159 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Y Brg Wid = 3.5 Min Req = 2.2 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Y, & 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.

Lumber

Top chord: 2x4 SP #2; T5 2x4 SP M-31;
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.

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).



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B-AA	695 -137	T-S	889 -324
AA-Z	684 -141	S-R	1782 -707
W-V	524 -181	R-Q	1782 -707
V-T	912 -321	Q-O	1805 -705

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C-Z	181 -793	S-G	430 -48
Y-D	604 -1524	S-H	394 -838
D-W	1032 -350	I-O	403 -536
W-E	326 -822	O-J	1830 -737
E-V	602 -229	L-J	545 -1192
F-S	595 -278	L-K	533 -1211

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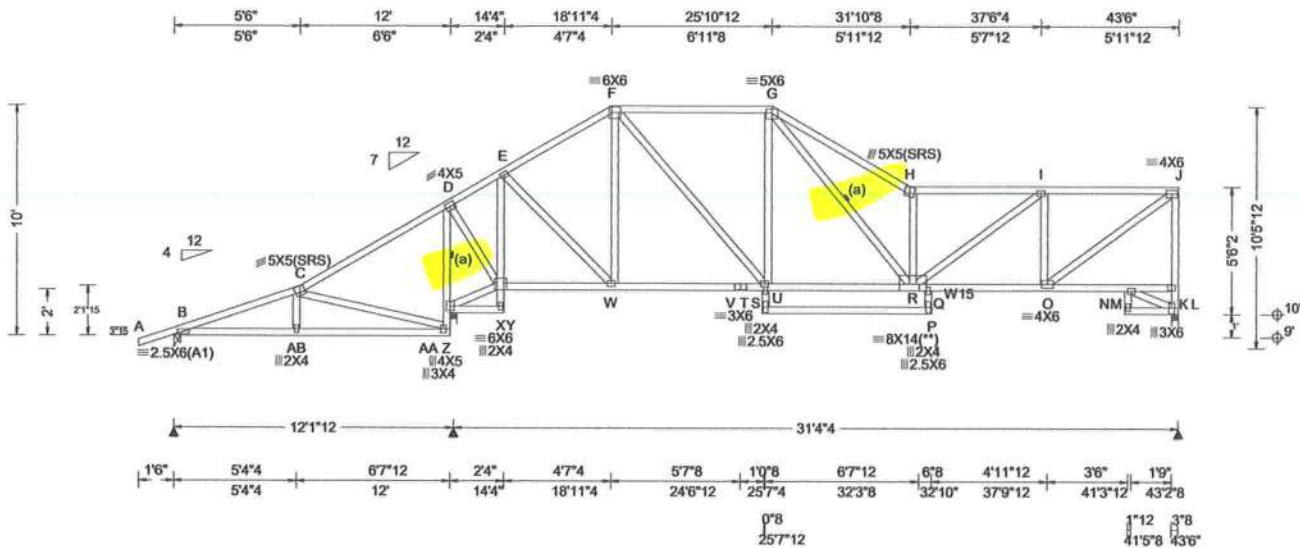
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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: 4.35 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): 0.141 P 999 240 VERT(CL): 0.288 P 999 180 HORZ(LL): -0.044 J - - HORZ(TL): 0.088 J - - Creep Factor: 2.0 Max TC CSI: 0.552 Max BC CSI: 0.622 Max Web CSI: 0.880 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 527 /- /- /312 /24 /262 Z 1892 /- /- /1183 /139 /- K 1272 /- /- /676 /129 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 3.5 Min Req = 2.2 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Z, & 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.

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W15 2x4 SP M-31;

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

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

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

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



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Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B - AB 676 -134 T - S 1303 -431
AB-AA 665 -139 S - R 1284 -430
X - W 496 -151 R - Q 1504 -584
W - V 897 -282 Q - O 1523 -585
V - T 897 -282

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
C - AA 192 -788 H - R 692 -1645
Z - D 568 -1532 R - I 863 -257
D - X 1041 -324 I - O 480 -937
X - E 311 -846 O - J 1805 -688
E - W 620 -212 L - J 508 -1221
F - T 610 -259 L - K 499 -1233
G - R 1544 -613

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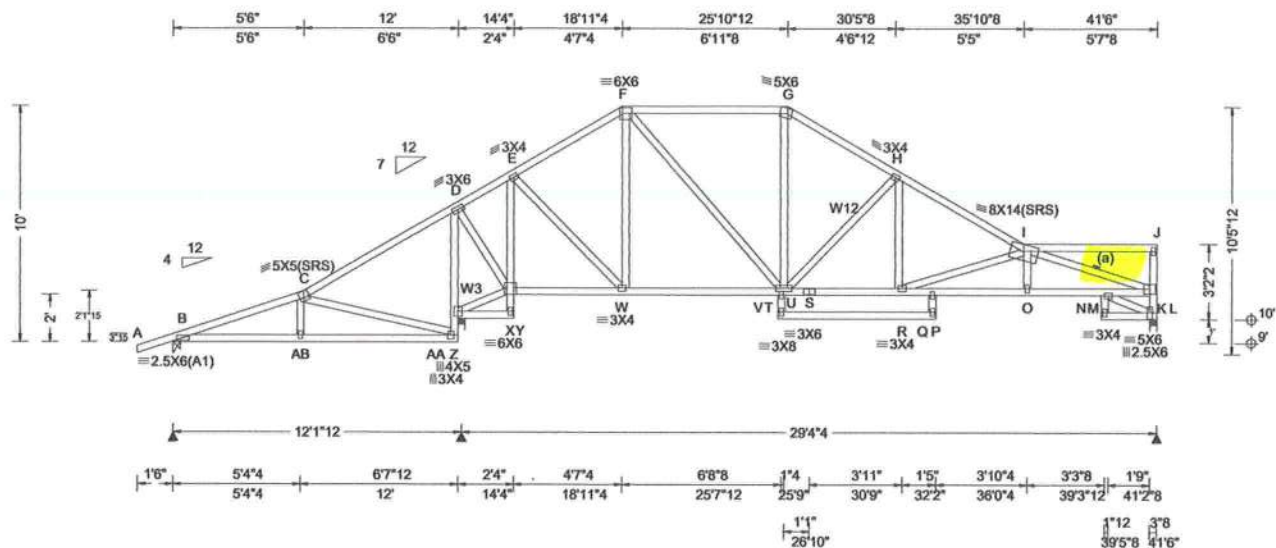
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SEQN: 119794 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B14	Cust: R 215 JRef: 1XJO2150005 T30 DrwNo: 284.22.0829.11780 AK / WHK 10/11/2022
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Loading Criteria (psf)	Wind Criteria	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: 4.15 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): 0.162 P 999 240 VERT(CL): 0.333 P 999 180 HORZ(LL): -0.032 X - - HORZ(TL): 0.066 X - - Creep Factor: 2.0 Max TC CSI: 0.596 Max BC CSI: 0.883 Max Web CSI: 0.809 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 505 /- /- /283 /49 /265 Z 1863 /- /- /1162 /90 /- K 1183 /- /- /678 /35 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 3.5 Min Req = 2.2 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Z, & 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.

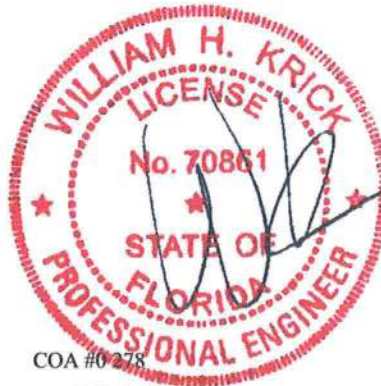
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W3,W12 2x4 SP M-31;

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.
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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10/11/2022
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - AB	616 - 127	S - R	1636 - 443
AB-AA	605 - 132	R - Q	2875 - 860
X - W	384 - 76	Q - O	2882 - 861
W - U	790 - 178	O - M	2883 - 852
U - T	784 - 178	M - L	2844 - 826
T - S	1636 - 443		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - AA	213 - 773	T - H	258 - 759
Z - D	467 - 1473	H - R	555 - 128
D - X	995 - 240	R - I	438 - 1293
X - E	255 - 847	I - L	895 - 3020
E - W	633 - 164	L - K	417 - 1186
F - T	512 - 169		

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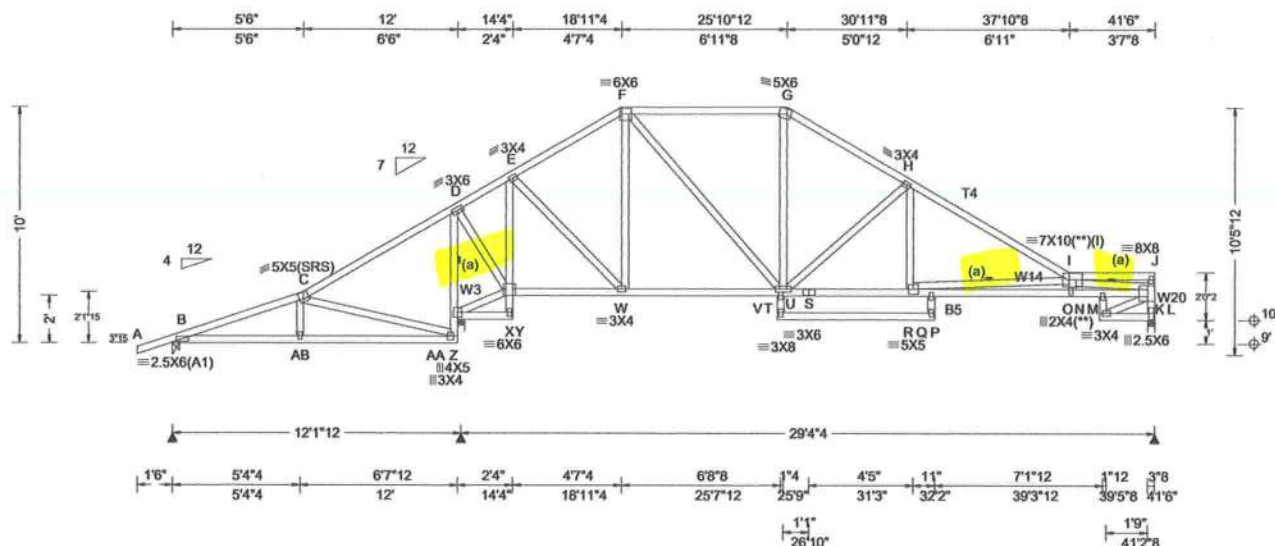
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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: 4.15 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): 0.263 I 999 240 VERT(CL): 0.541 I 660 180 HORZ(LL): 0.082 N - - HORZ(TL): 0.176 N - - Creep Factor: 2.0 Max TC CSI: 0.610 Max BC CSI: 0.685 Max Web CSI: 0.854 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 499 /- /- /273 /63 /266 Z 1894 /- /- /1183 /- /- K 1183 /- /- /702 /- /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) Z Brg Wid = 3.5 Min Req = 2.2 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, Z, & 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.

Lumber	Maximum Top Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; T4 2x4 SP M-31; Bot chord: 2x4 SP #2; B5 2x4 SP M-31; Webs: 2x4 SP #3; W3 2x4 SP #2; W14, W20 2x4 SP M-31;	B - C 134 -669 F - G 128 -1116 C - D 399 -146 G - H 132 -1378 D - E 74 -429 H - I 192 -2149 E - F 88 -958 I - J 75 -467

Bracing	Maximum Bot Chord Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Chords Tens.Comp. Chords Tens. Comp. B -AB 599 -172 S - R 1760 -83 AB-AA 587 -177 R - Q 4883 -637 W - U 776 0 Q - O 4882 -636 U - T 778 0 O - M 4859 -615 T - S 1760 -83 M - L 4827 -608

Plating Notes	Maximum Web Forces Per Ply (lbs)
All plates are 2X4 except as noted. (l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance. (**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.	Webs Tens.Comp. Webs Tens. Comp. C -AA 233 -769 T - H 261 -867 Z - D 145 -1487 H - R 535 -16 D - X 1005 0 R - I 557 -3116 X - E 38 -883 I - L 551 -4476 E - W 665 0 L - K 209 -1161 F - T 521 -46

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

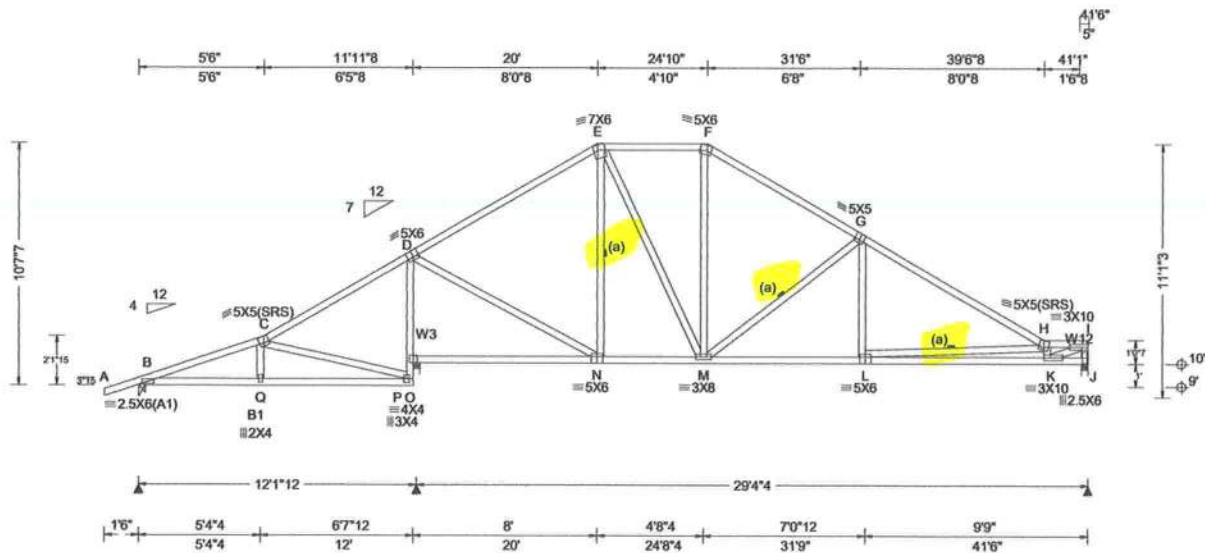
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119804 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B16	Cust: R 215 JRef: 1XJO2150005 T38 DrwNo: 284.22.0829.18210 AK / WHK 10/11/2022
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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: 4.15 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): 0.092 L 999 240 VERT(CL): 0.190 L 999 180 HORZ(LL): -0.024 I - - HORZ(TL): 0.049 I - - Creep Factor: 2.0 Max TC CSI: 0.858 Max BC CSI: 0.441 Max Web CSI: 0.664 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL B 505 /- /- /267 /74 /285 O 1854 /- /- /1179 /59 /- J 1192 /- /- /738 /26 /- Non-Gravity Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.5 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, O, & 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.

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x4 SP #2;
Webs: 2x4 SP #3; W3 2x4 SP M-31; W12 2x4 SP #2;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 - Q	615 -156	M - L	1533 -306
Q - P	604 -161	L - K	3020 -761
N - M	744 -75		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	218 -772	G - L	454 0
O - D	428 -1523	L - H	458 -1480
D - N	998 -128	H - K	412 -1218
E - M	394 -113	K - I	2804 -665
M - G	258 -793	I - J	256 -1122

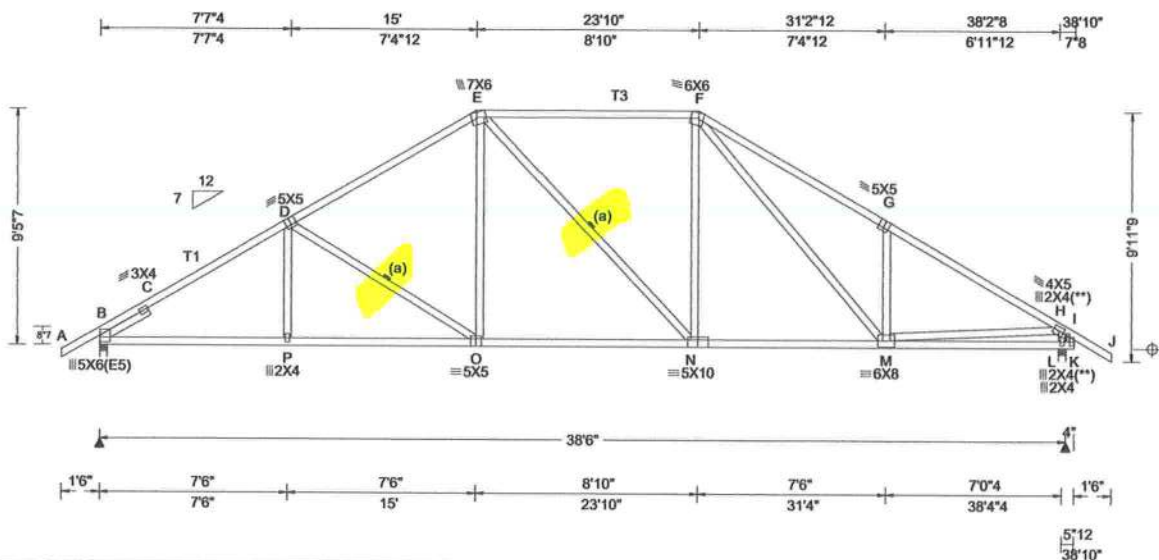


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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): 0.103 O 999 240			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA			VERT(CL): 0.211 O 999 180			B	1687	/-	/-	/1019	/35	/282	
BCDL: 10.00		Risk Category: II		Snow Duration: NA			HORZ(LL): 0.052 I - -			L	1727	/-	/-	/1047	/32	/-	
Des Ld: 40.00		EXP: C Kzt: NA					HORZ(TL): 0.106 I - -			Wind reactions based on MWFRS							
NCBCLL: 10.00		Mean Height: 15.00 ft		Building Code:			Creep Factor: 2.0			B			Brg Wid = 3.5 Min Req = 2.0 (Truss)				
Soffit: 0.00		TCDL: 5.0 psf		FBC 7th Ed. 2020 Res.			Max TC CSI: 0.699			L			Brg Wid = 3.5 Min Req = 1.7 (Truss)				
Load Duration: 1.25		BCDL: 5.0 psf		TPI Std: 2014			Max BC CSI: 0.742			Bearings B & L are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes			Max Web CSI: 0.630			Members not listed have forces less than 375#							
		C&C Dist a: 3.88 ft		FT/RT:20(0)/10(0)						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 9.00 ft		Plate Type(s):						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18		WAVE			VIEW Ver: 21.02.00.1005.17			B - C		673 -2642		E - F		638 -1613	
Lumber		Wind Duration: 1.60								C - D		668 -2489		F - G		806 -2379	
										D - E		670 -2000		G - H		635 -2377	

Lumber

Top chord: 2x4 SP #2; T1,T3 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 2.208'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

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

Purlins

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

Wind

Wind loads based on MWFRS with additional C&C member design.
Right end vertical 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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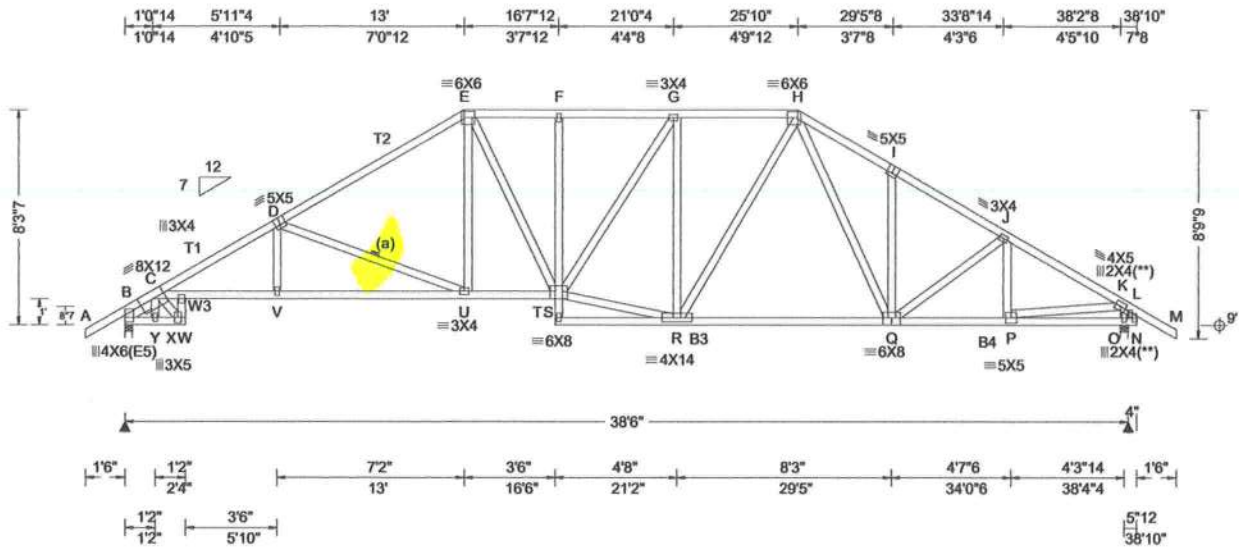
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119818 FROM:	SPEC	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B18	Cust: R 215 JRef: 1XJO2150005 T31 DrwNo: 284.22.0829.25590 AK / WHK 10/11/2022
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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: 3.88 ft Loc. from endwall: not in 9.00 ft GCpt: 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): 0.247 W 999 240 VERT(CL): 0.504 W 913 180 HORZ(LL): 0.150 N - - HORZ(TL): 0.307 N - - Creep Factor: 2.0 Max TC CSI: 0.514 Max BC CSI: 0.904 Max Web CSI: 0.899 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1688 /- /- /1011 /298 /250 O 1731 /- /- /1040 /303 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) O Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings B & O are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 504 -1673 G - H 792 -1905 C - D 982 -3466 H - I 833 -2216 D - E 822 -2409 I - J 742 -2233 E - F 865 -2187 J - K 672 -2269 F - G 863 -2182

Lumber

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3; W3 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.219'

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 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.

Right cantilever is exposed to wind

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

Florida Certificate of Product Approval #FL 1999

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - Y	1048 -273	V - U	2979 -752
C - X	3046 -766	U - S	1976 -457
Y - W	994 -255	R - Q	1672 -395
X - V	2990 -752	Q - P	1913 -486

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - W	336 -1312	S - R	1940 -493
X - W	835 -207	G - R	365 -726
V - D	508 -11	R - H	459 -207
D - U	321 -1083	H - Q	468 -130
E - U	459 -27	P - K	1722 -440
E - S	454 -253	K - O	499 -1577
S - G	492 -139		

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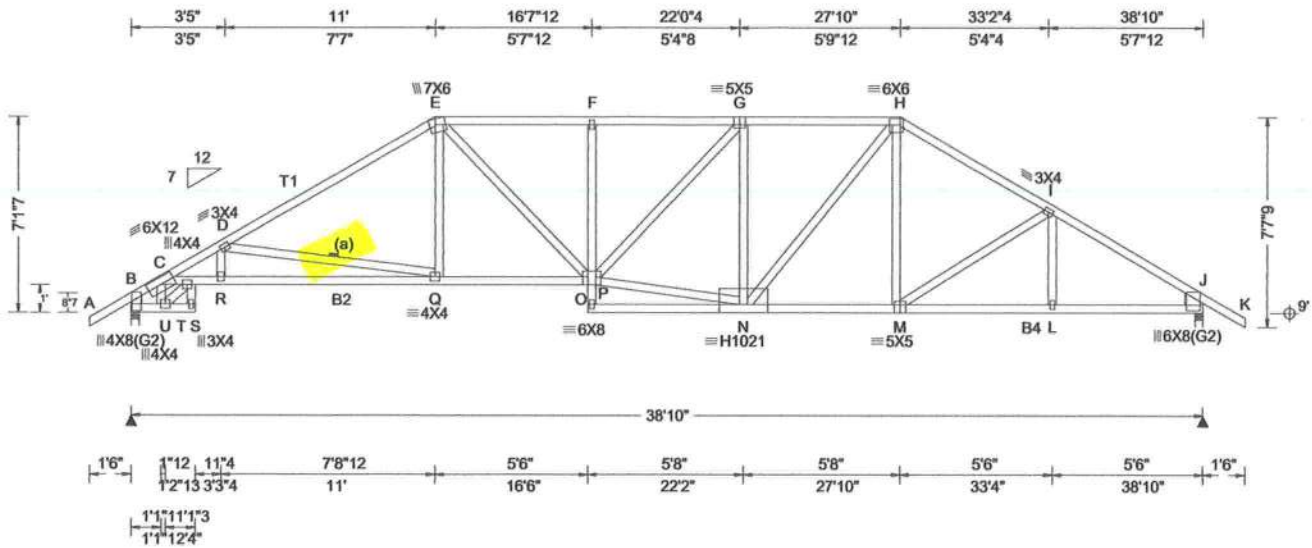
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119820 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B19	Cust: R 215 JRef: 1XJO2150005 T27 / DrwNo: 283.22.1117.09230 AK / DF 10/10/2022
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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: 3.88 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, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.209 F 999 240 VERT(CL): 0.428 F 999 180 HORZ(LL): 0.131 J - - HORZ(TL): 0.268 J - - Creep Factor: 2.0 Max TC CSI: 0.650 Max BC CSI: 0.845 Max Web CSI: 0.865 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1709 /- /- /1009 /305 /219 J 1709 /- /- /1009 /305 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2,B4 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x4 SP #3;
Rt Stub Wedge: 2x6 SP 2400f-2.0E;

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.

Wind loading based on both gable and hip roof types.

Laterally brace BC above filler @ 24" O.C. (or as designed) including a brace on BC directly above both ends of filler (if no rigid diaphragm exists at that point)

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	1218 -312	Q - O	2236 -628
C - T	2957 -885	N - M	1889 -534
T - R	3877 -1111	M - L	2117 -612
R - Q	3840 -1107	L - J	2119 -611

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - U	366 -1361	E - O	677 -369
U - T	1422 -354	O - G	609 -216
R - D	713 -73	O - N	2270 -716
D - Q	492 -1630	G - N	444 -800
E - Q	473 0	N - H	592 -313



COA #0278

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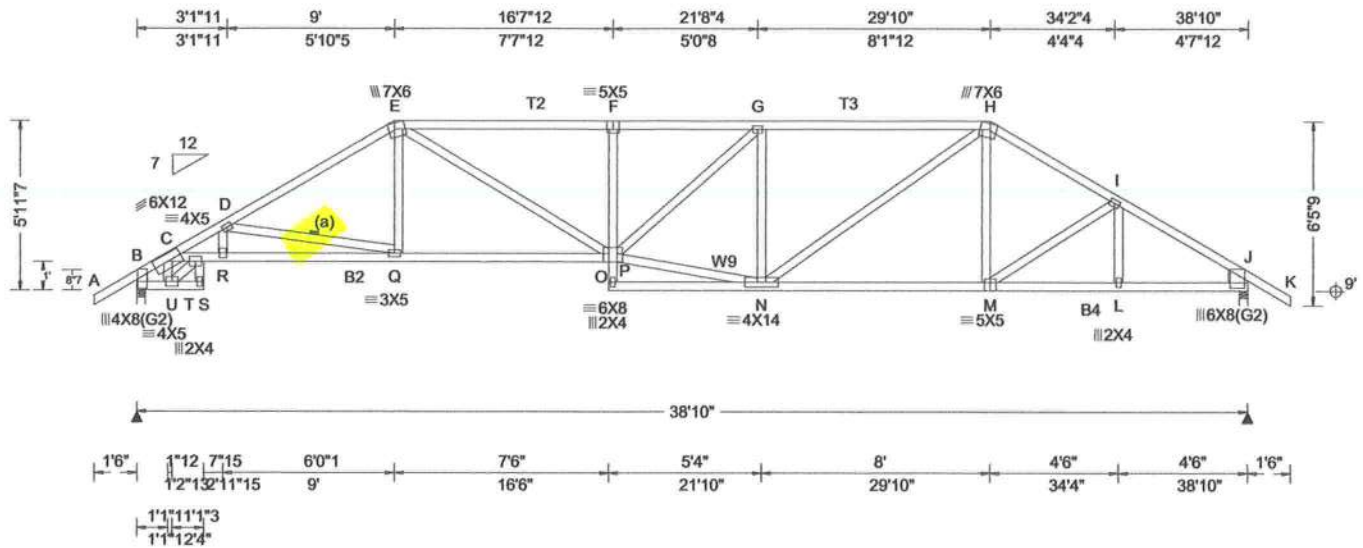
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 119823 FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B20	Cust: R 215 JRef: 1XJO2150005 T35 DrwNo: 284.22.0829.29360 AK / WHK 10/11/2022
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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: 3.88 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): 0.245 F 999 240 VERT(CL): 0.500 F 931 180 HORZ(LL): 0.132 J - - HORZ(TL): 0.269 J - - Creep Factor: 2.0 Max TC CSI: 0.629 Max BC CSI: 0.849 Max Web CSI: 0.851 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 1709 /- /- /994 /308 /187 J 1709 /- /- /994 /308 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.0 (Truss) J Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 636 - 1845 F - G 1479 - 3416 C - D 1501 - 4494 G - H 1234 - 2770 D - E 1110 - 2934 H - I 960 - 2389 E - F 1484 - 3430 I - J 900 - 2539

Lumber

Top chord: 2x4 SP #2; T2,T3 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2,B4 2x4 SP M-31;
Webs: 2x4 SP #3; W9 2x4 SP #2;
Lt Stub Wedge: 2x4 SP #3;
Rt Stub Wedge: 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.

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

10/11/2022

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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	1333 - 403	Q - O	2467 - 810
C - T	2918 - 948	N - M	2022 - 671
T - R	3915 - 1238	M - L	2088 - 673
R - Q	3869 - 1229	L - J	2089 - 672

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - U	481 - 1521	E - O	1124 - 581
U - T	1550 - 458	O - G	833 - 327
R - D	761 - 163	O - N	2799 - 1014
D - Q	448 - 1431	G - N	561 - 990
E - Q	500 - 0	N - H	915 - 468

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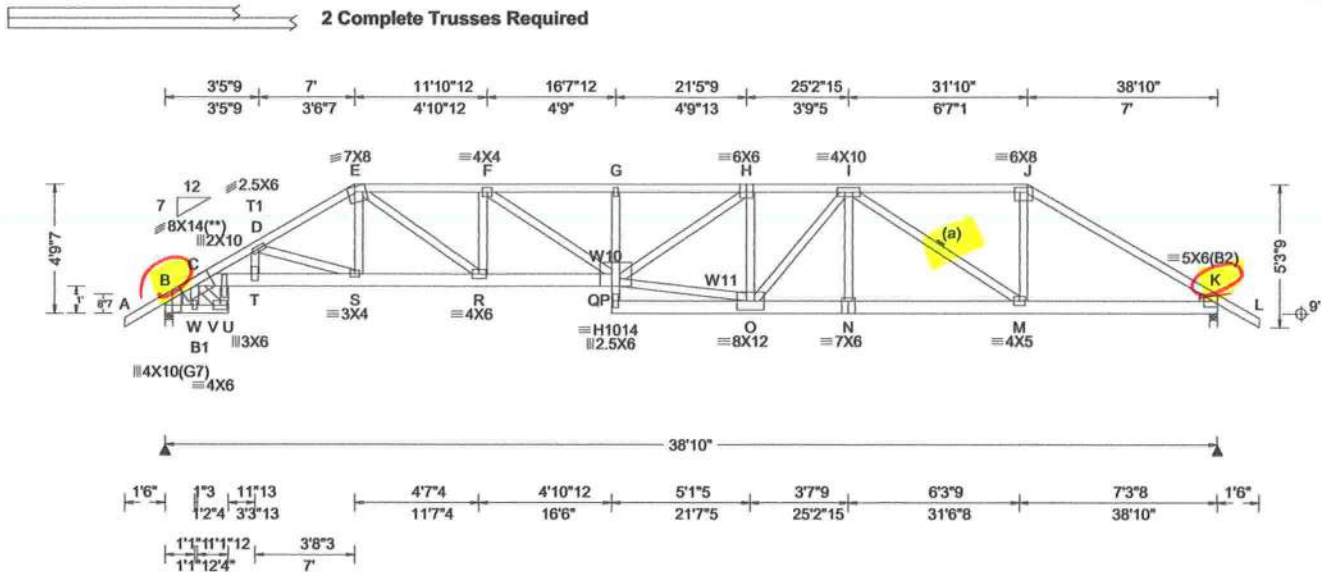
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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): 0.399 G 999 240	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.800 G 581 180	B	4082	-	-	-	/976	-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.158 K - -	K	4068	-	-	-	/970	-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.318 K - -	Wind reactions based on MWFRS						
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B Brg Wid = 3.5 Min Req = 2.4 (Truss)						
Soffit: 0.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.825	K Brg Wid = 3.5 Min Req = 1.7 (Truss)						
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.833	Bearings B & K are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.703	Members not listed have forces less than 375#						
	C&C Dist a: 3.88 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.			
	GCpi: 0.18			B - C	541 - 2297	G - H	1599 - 6356			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	C - D	1338 - 5635	H - I	1191 - 4785			
				D - E	1076 - 4452	I - J	702 - 2946			
				E - F	1297 - 5254	J - K	821 - 3391			
				F - G	1606 - 6386					

Lumber
Top chord: 2x4 SP M-31; T1 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP #2;
Webs: 2x4 SP #3; W10 2x4 SP #2; W11 2x4 SP M-31;
Lt Stub Wedge: 2x6 SP 2400f-2.0E;
Rt Wedge: 2x4 SP #3;

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.

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.

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.

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.



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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

SEQN: 119827	HIPS	Ply: 2	Job Number: 22-8296	Cust: R 215 JRef: 1XJO2150005 T22
FROM:		Qty: 1	Hagan	DrwNo: 284.22.0829.47813
Page 2 of 2			Truss Label: B21	AK / WHK 10/11/2022

Special Loads

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

TC: From 63 plf at -1.50 to 63 plf at 7.00
TC: From 32 plf at 7.00 to 32 plf at 31.83
TC: From 63 plf at 31.83 to 63 plf at 40.33
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 31.80
BC: From 20 plf at 31.80 to 20 plf at 38.83
TC: 346 lb Conc. Load at 7.03
TC: 217 lb Conc. Load at 9.06,11.06,13.06,15.06
TC: 197 lb Conc. Load at 17.06,19.06,19.77,21.77
23.77,25.77,27.77,29.77
TC: 342 lb Conc. Load at 31.80
BC: 609 lb Conc. Load at 7.03
BC: 103 lb Conc. Load at 9.06,11.06,13.06,15.06
BC: 134 lb Conc. Load at 17.06,19.06,19.77,21.77
23.77,25.77,27.77,29.77
BC: 541 lb Conc. Load at 31.80



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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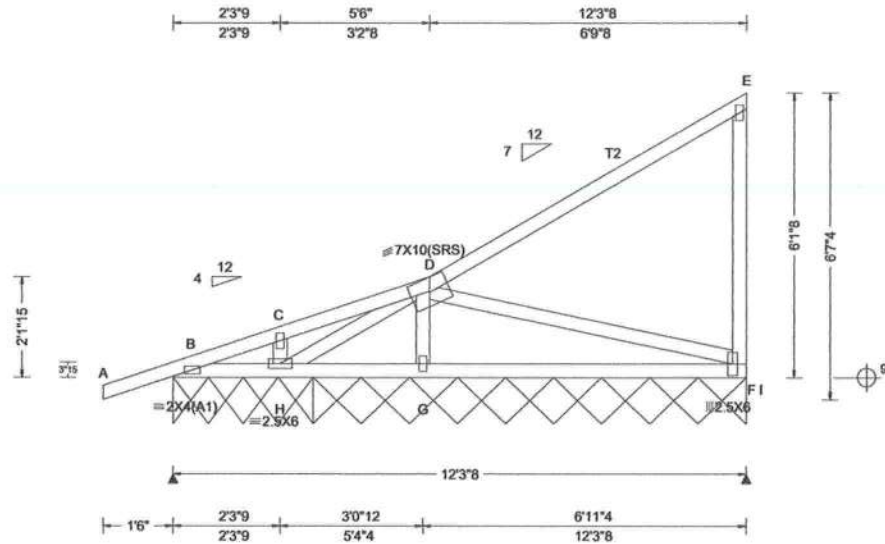
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116872 / FROM:	GABL	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: B22	Cust: R 215 JRef: 1XJO2150005 T65 / DrwNo: 283.22.1117.07761 AK / DF 10/10/2022
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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: 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): 0.001 E 999 240 VERT(CL): 0.002 E 999 180 HORZ(LL): -0.001 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.360 Max BC CSI: 0.449 Max Web CSI: 0.140 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 131 /- /- /77 /16 /52 I* 76 /- /- /55 /6 /- Wind reactions based on MWFRS B Brg Wid = 36.0 Min Req = - I Brg Wid = 111 Min Req = - Bearings B & H are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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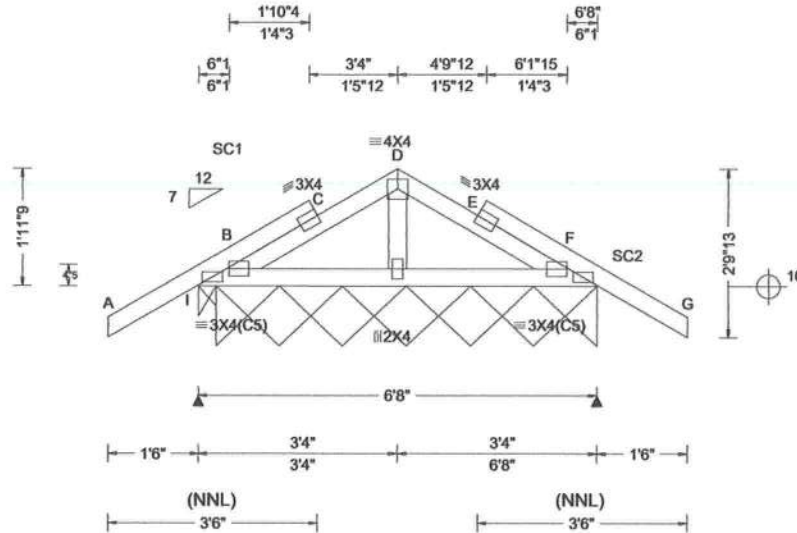
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116732 / FROM:	GABL	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: C01	Cust: R 215 JRef: 1XJO2150005 T14 / DrwNo: 283.22.1117.08199 AK / DF 10/10/2022
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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): 0.003 C 999 240 VERT(CL): 0.006 C 999 180 HORZ(LL): -0.002 E - - HORZ(TL): 0.003 E - - Creep Factor: 2.0 Max TC CSI: 0.252 Max BC CSI: 0.074 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 237 /- /- /180 /52 /91 F* 80 /- /- /50 /12 /- Wind reactions based on MWFRS I Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 76.5 Min Req = - Bearings I & I 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(C5) 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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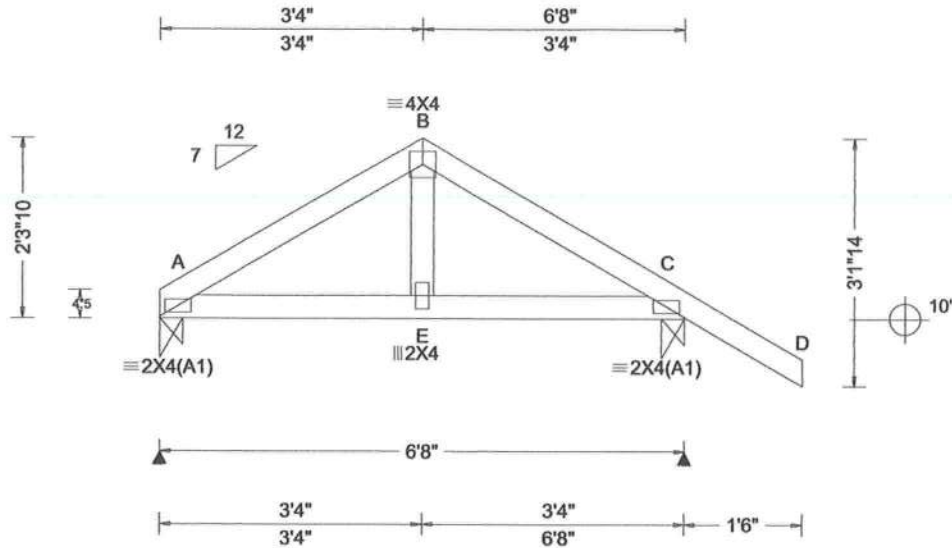
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116734 / FROM:	COMN Ply: 1 Qty: 3	Job Number: 22-8296 Hagan Truss Label: C02	Cust: R 215 JRef: 1XJO2150005 T54 / DrwNo: 283.22.1117.09371 AK / DF 10/10/2022
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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): 0.002 E 999 240 VERT(CL): 0.005 E 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.229 Max BC CSI: 0.103 Max Web CSI: 0.051 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 264 /- /- /159 /39 /77 C 385 /- /- /255 /74 /- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 (Truss) C Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings A & C 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;

Wind

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



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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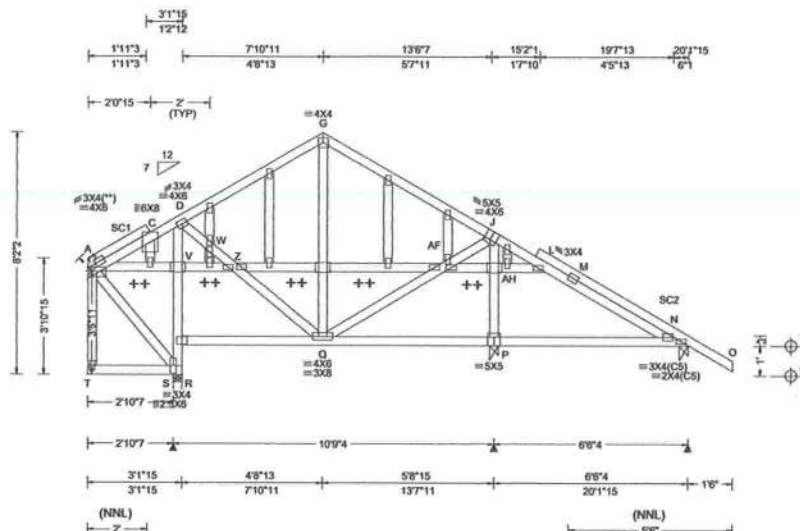
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116877 / FROM:	GABL Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: C03	Cust: R 215 JRef: 1XJO2150005 T52 / DrwNo: 283.22.1117.07045 AK / DF 10/10/2022
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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: 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 M 999 240 VERT(CL): 0.036 M 999 180 HORZ(LL): -0.007 M - - HORZ(TL): 0.015 M - - Creep Factor: 2.0 Max TC CSI: 0.304 Max BC CSI: 0.593 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL S 955 /- /- /- /236 /- P 1001 /- /- /- /219 /- N 341 /- /- /- /89 /- Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.5 (Truss) P Brg Wid = 3.5 Min Req = 1.5 N Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings S, P, & N are a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - R 245 -875 Z - Q 376 -94 V - R 187 -635 AF - J 526 -138 V - D 174 -603 J - AH 162 -590 D - W 424 -113 AH - P 174 -623 W - Z 422 -112

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;

Special Loads

—(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 3.22
TC: From 32 plf at 3.22 to 32 plf at 13.64
TC: From 63 plf at 13.64 to 63 plf at 21.66
BC: From 20 plf at 0.00 to 20 plf at 3.16
BC: From 10 plf at 3.16 to 10 plf at 13.64
BC: From 20 plf at 13.64 to 20 plf at 20.16
BC: 170 lb Conc. Load at 3.22,13.22
BC: 150 lb Conc. Load at 5.22, 7.22, 9.22,11.22

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.

Loading

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

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS 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 notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

++ This member shall be braced with properly attached purlins or trusses at 24" o.c.



COA #0278

Florida Certificate of Product Approval #FL 1999

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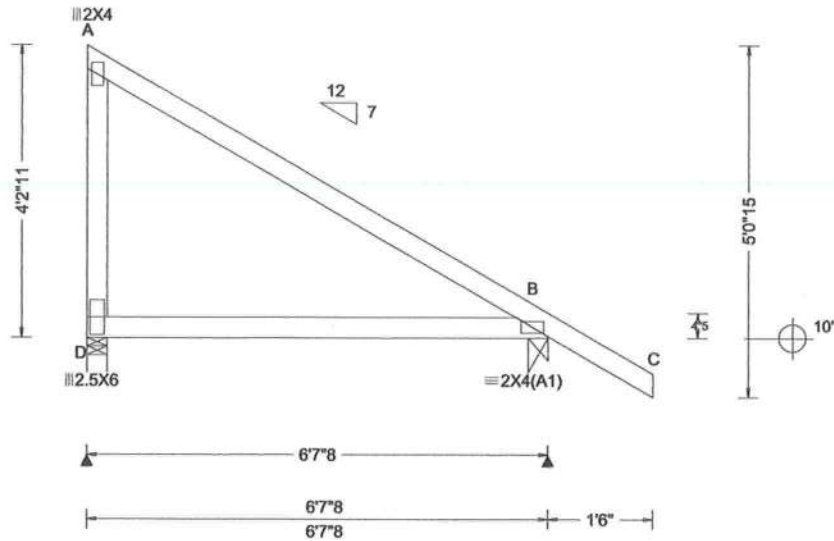
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116736 / FROM:	MONO	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: C04	Cust: R 215 JRef: 1XJO2150005 T34 / DrwNo: 283.22.1117.07044 AK / DF 10/10/2022
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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/#								
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.014 B 999 240								
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.024 B 999 180								
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.012 B - -	D	256	/-	/-	/190	/81	/166	
	EXP: C Kzt: NA		HORZ(TL): 0.023 B - -	B	389	/-	/-	/237	/44	/-	
Des Ld: 40.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS							
NCBCLL: 10.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.580	D Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Soffit: 0.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.423	B Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.264	Bearings D & B are a rigid surface.							
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#							
	Loc. from endwall: not in 9.00 ft	Plate Type(s):									
	GCpi: 0.18	WAVE									
	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;

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

Florida Certificate of Product Approval #FL 1999

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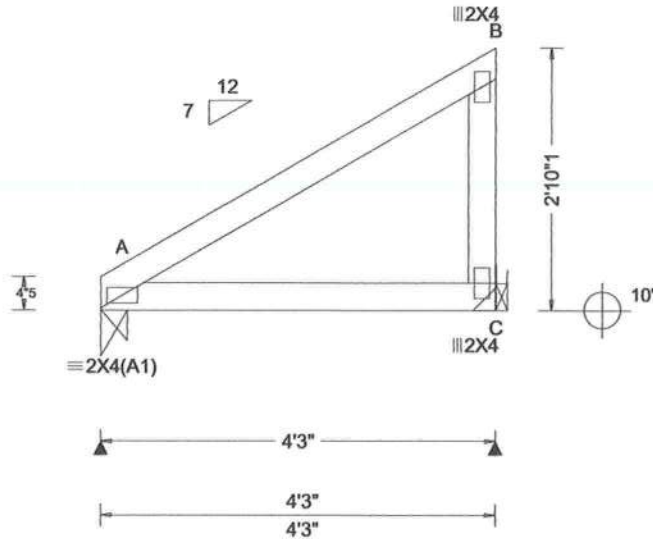
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116740 / FROM:	MONO Ply: 1 Qty: 2	Job Number: 22-8296 Hagan Truss Label: D01	Cust: R 215 JRef: 1XJO2150005 T63 / DrwNo: 283.22.1117.07042 AK / DF 10/10/2022
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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): 0.003 A - - HORZ(TL): 0.007 A - - Creep Factor: 2.0 Max TC CSI: 0.242 Max BC CSI: 0.167 Max Web CSI: 0.111 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 183 /- /- /113 /1 /86 C 170 /- /- /126 /55 /- Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.5 (Truss) C Brg Wid = - 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;
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.



COA #0218

Florida Certificate of Product Approval #FL 1999

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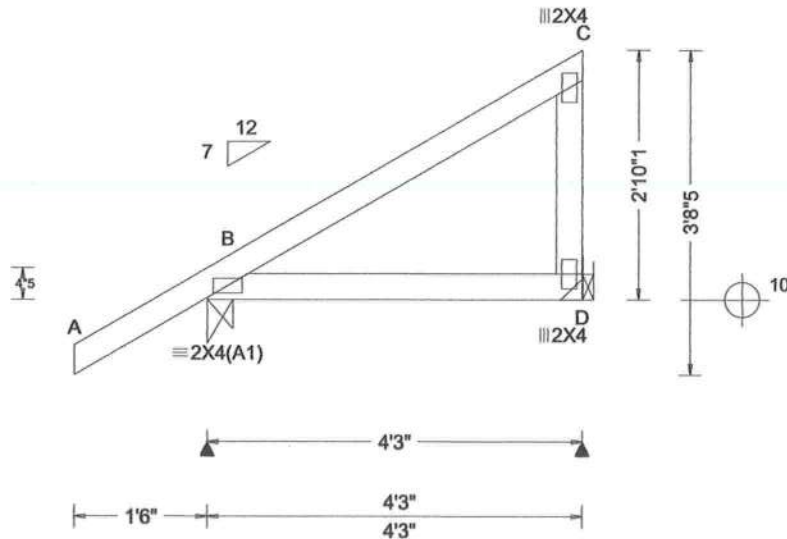
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116738 / FROM:	MONO Ply: 1 Qty: 4	Job Number: 22-8296 Hagan Truss Label: D02	Cust: R 215 JRef: 1XJO2150005 T58 / DrwNo: 283.22.1117.08698 AK / DF 10/10/2022
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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): 0.002 B - - HORZ(TL): 0.004 B - - Creep Factor: 2.0 Max TC CSI: 0.201 Max BC CSI: 0.153 Max Web CSI: 0.094 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 298 /- /- /216 /34 /111 D 150 /- /- /106 /48 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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;

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0278

Florida Certificate of Product Approval #FL 1999

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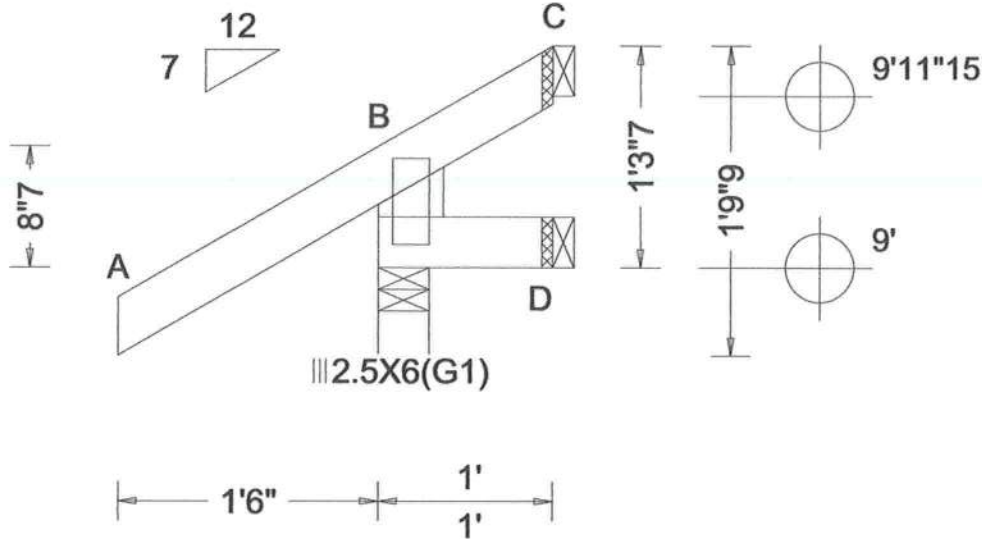
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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.

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

SEQN: 116646 / FROM:	JACK Ply: 1 Qty: 7	Job Number: 22-8296 Hagan Truss Label: J01	Cust: R 215 JRef: 1XJO2150005 T4 / DrwNo: 283.22.1117.08089 AK / DF 10/10/2022
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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): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.039 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 207 /- /- /167 /43 /44 D 12 /-10 /- /12 /8 /- C - /-19 /- /22 /29 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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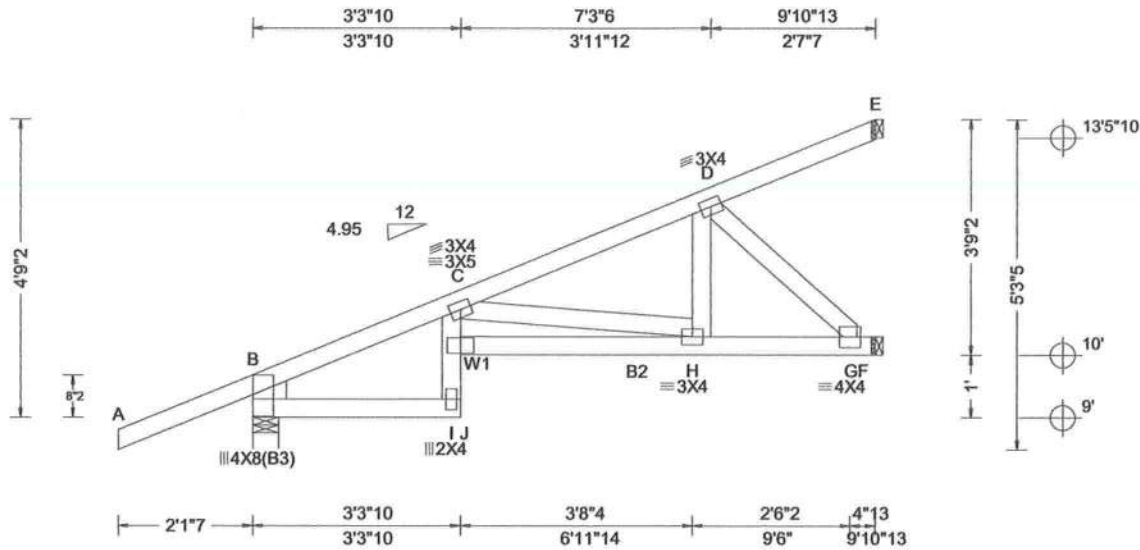
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116661 FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: J01HJ	Cust: R 215 JRef: 1XJO2150005 T10 DrwNo: 284.22.0829.49440 AK / WHK 10/11/2022
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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): 0.061 I 999 240 VERT(CL): 0.123 I 967 180 HORZ(LL): 0.032 G - - HORZ(TL): 0.064 G - - Creep Factor: 2.0 Max TC CSI: 0.175 Max BC CSI: 0.294 Max Web CSI: 0.363 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 460 /- /- /- /92 /- F 506 /- /- /- /54 /- E 128 /- /- /- /50 /- 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# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 2x4 SP M-31; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3; W1 2x4 SP M-31; Lt Stub Wedge: 2x4 SP #3;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - J 434 -69 H - G 524 -90 I - H 998 -160
Loading Hipjack supports 7-0-0 setback jacks with no webs.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - H 76 -454 D - G 126 -732
Wind Wind loads and reactions based on MWFRS. Wind loading based on both gable and hip roof types.	



COA #0278

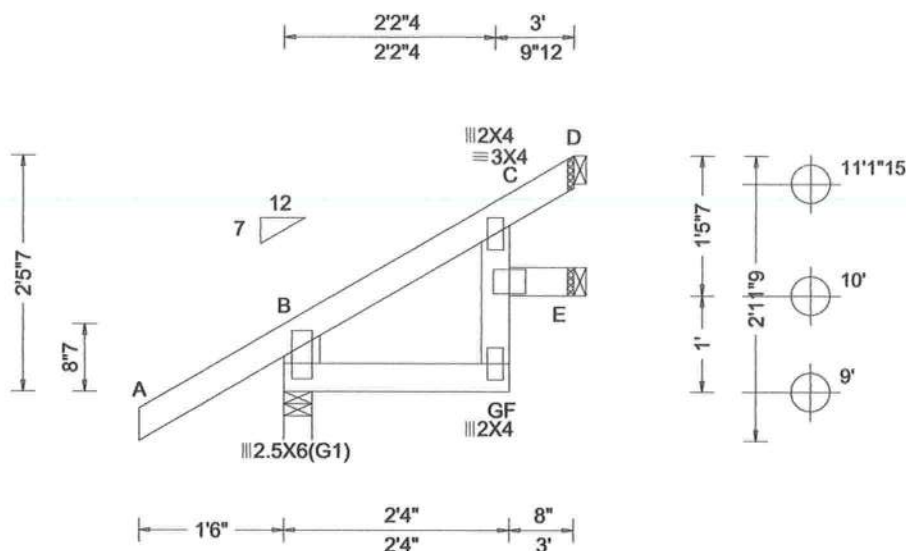
10/11/2022
Florida Certificate of Product Approval #FL 1999

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

SEQN: 116572 / FROM:	JACK Qty: 2	Ply: 1	Job Number: 22-8296 Hagan Truss Label: J02	Cust: R 215 JRef: 1XJ02150005 T16 / DrwNo: 283.22.1117.09573 AK / DF 10/10/2022
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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: 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): 0.004 F 999 240 VERT(CL): 0.008 F 999 180 HORZ(LL): 0.003 C - - HORZ(TL): 0.006 C - - Creep Factor: 2.0 Max TC CSI: 0.176 Max BC CSI: 0.048 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 243 /- /- /178 /26 /86 E 23 /- /- /16 /3 /- D 83 /- /- /59 /36 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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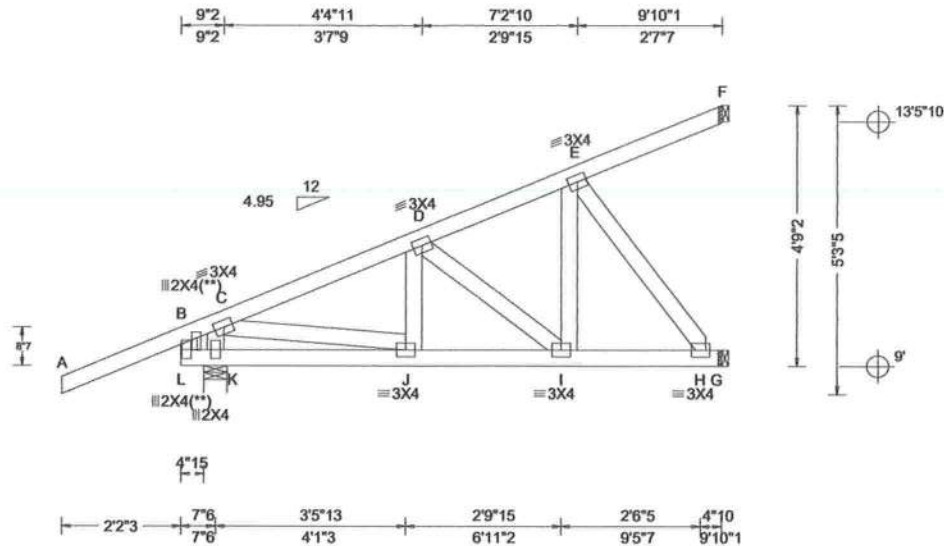
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 117572 FROM:	HIP_	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: J02HJ	Cust: R 215 JRef: 1XJO2150005 T15 DrwNo: 284.22.0829.52623 AK / WHK 10/11/2022
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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): 0.009 I 999 240 VERT(CL): 0.018 I 999 180 HORZ(LL): 0.003 B - - HORZ(TL): 0.007 B - - Creep Factor: 2.0 Max TC CSI: 0.456 Max BC CSI: 0.322 Max Web CSI: 0.179 VIEW Ver: 21.02.00B.1108.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 478 /- /- /- /100 /- G 408 /- /- /- /35 /- F 145 /- /- /- /53 /- Wind reactions based on MWFRS K Brg Wid = 4.9 Min Req = 1.5 (Truss) G Brg Wid = 1.5 Min Req = - F Brg Wid = 1.5 Min Req = - Bearing K is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

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.

Loading

The following trusses need concentrated loads at the end of their overhangs: 0-0-0 span/setback member on the 0-3-8 cant side requires 36 lbs and the 0-0-0 span/setback member on the 0-3-8 cant side requires 36 lbs.

Sub-fascia beam assumptions: 1-6-8 sub-fascia beam on the 0-3-8 cantilever side. 1-6-8 sub-fascia beam on the 0-3-8 cantilever side.

Hipjack supports 6-11-8 setback jacks with 0-3-8 cantilever one face; 0-3-8 cantilever opposite face.

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



COA #0 278

Florida Certificate of Product Approval #FL 1999

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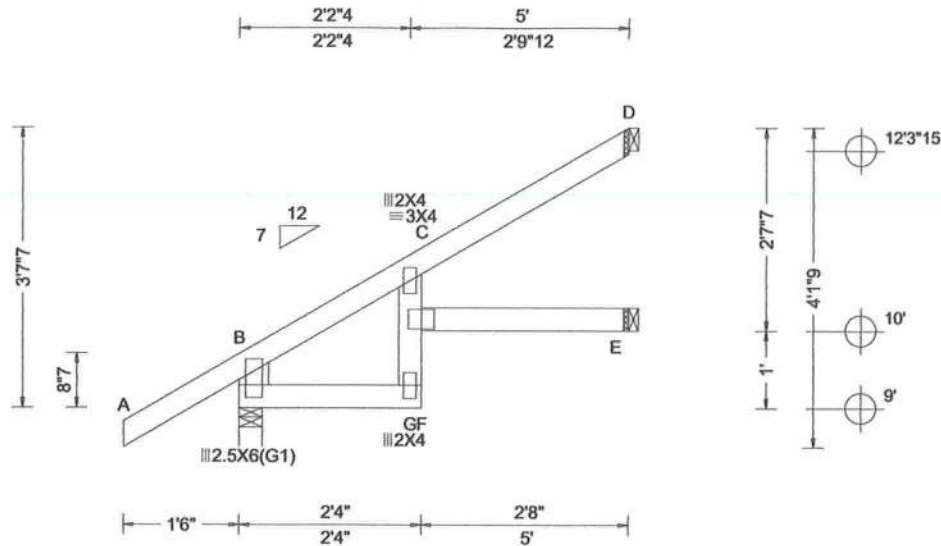
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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): 0.060 F 996 240		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.118 F 507 180		B	317	/-	/-	/221	/25	/127
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.043 C - -		E	65	/-	/-	/38	/-	/-
Des Ld: 40.00		EXP: C Kzt: NA				HORZ(TL): 0.085 C - -		D	151	/-	/-	/105	/73	/-
NCBCLL: 10.00		Mean Height: 15.00 ft		Building Code:		Creep Factor: 2.0		Wind reactions based on MWFRS						
Soffit: 0.00		TCDL: 5.0 psf		FBC 7th Ed. 2020 Res.		Max TC CSI: 0.465		B Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Load Duration: 1.25		BCDL: 5.0 psf		TPI Std: 2014		Max BC CSI: 0.123		E Brg Wid = 1.5 Min Req = -						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.131		D Brg Wid = 1.5 Min Req = -						
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Bearing B is a rigid surface.						
		Loc. from endwall: not in 4.50 ft		Plate Type(s):				Members not listed have forces less than 375#						
		GCpl: 0.18		WAVE										
		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;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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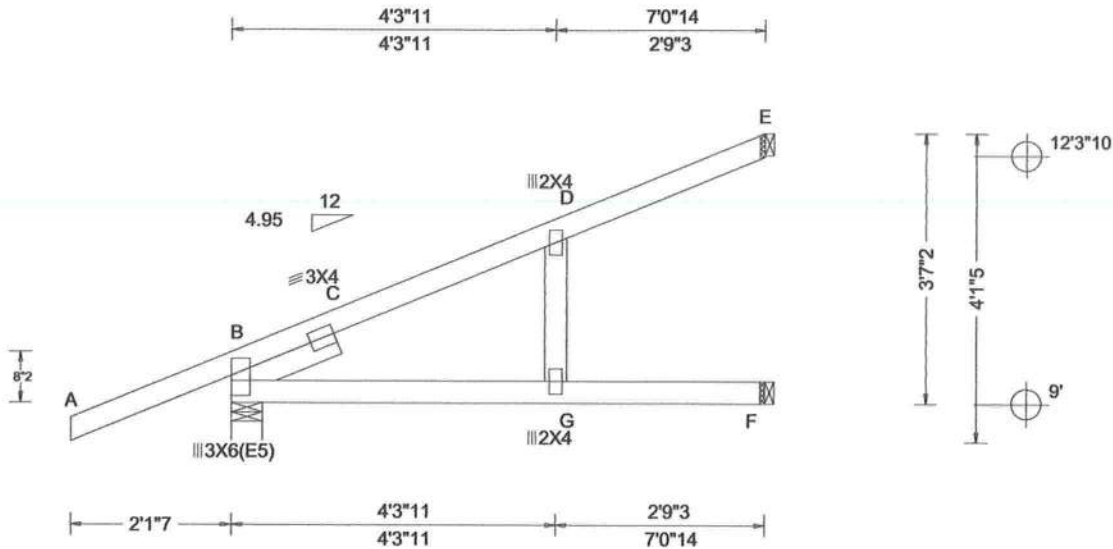
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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): 0.095 D 889 240 VERT(CL): 0.190 D 446 180 HORZ(LL): 0.045 D - - HORZ(TL): 0.090 D - - Creep Factor: 2.0 Max TC CSI: 0.554 Max BC CSI: 0.452 Max Web CSI: 0.121 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 304 /- /- /- /67 /- F 117 /- /- /3 /- /- E 186 /- /- /- /50 /- 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;
Lt Slider: 2x4 SP #3; block length = 1.500'

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

Florida Certificate of Product Approval #FL 1999

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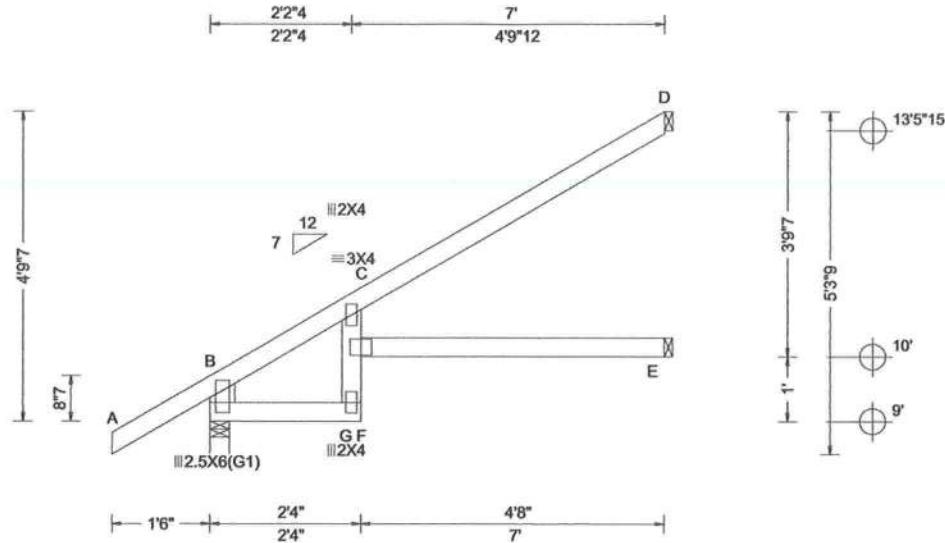
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025
Glenview, IL 60025

SEQN: 116666 / FROM:	EJAC	Ply: 1 Qty: 5	Job Number: 22-8296 Hagan Truss Label: J04	Cust: R 215 JRef: 1XJO2150005 T13 / DrwNo: 283.22.1117.09542 AK / DF 10/10/2022
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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): 0.159 F 528 240 VERT(CL): 0.316 F 265 180 HORZ(LL): 0.114 C - - HORZ(TL): 0.227 C - - Creep Factor: 2.0 Max TC CSI: 0.402 Max BC CSI: 0.317 Max Web CSI: 0.221 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 396 /- /- /270 /26 /168 E 103 /- /- /58 /- /- D 217 /- /- /149 /109 /- Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 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.



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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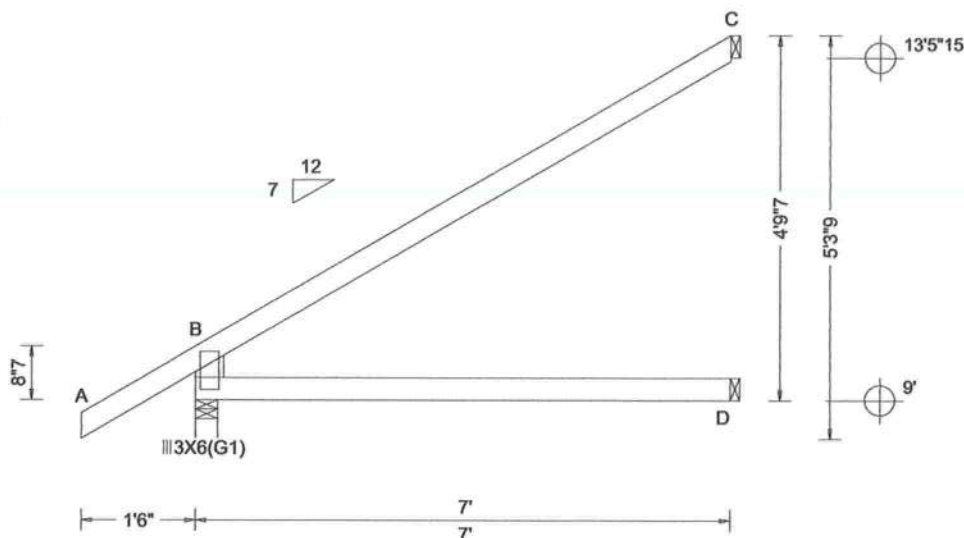
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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): 0.014 B - - HORZ(TL): 0.028 B - - Creep Factor: 2.0 Max TC CSI: 0.793 Max BC CSI: 0.563 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 396 /- /- /270 /26 /168 D 134 /- /- /77 /- /- C 197 /- /- /130 /109 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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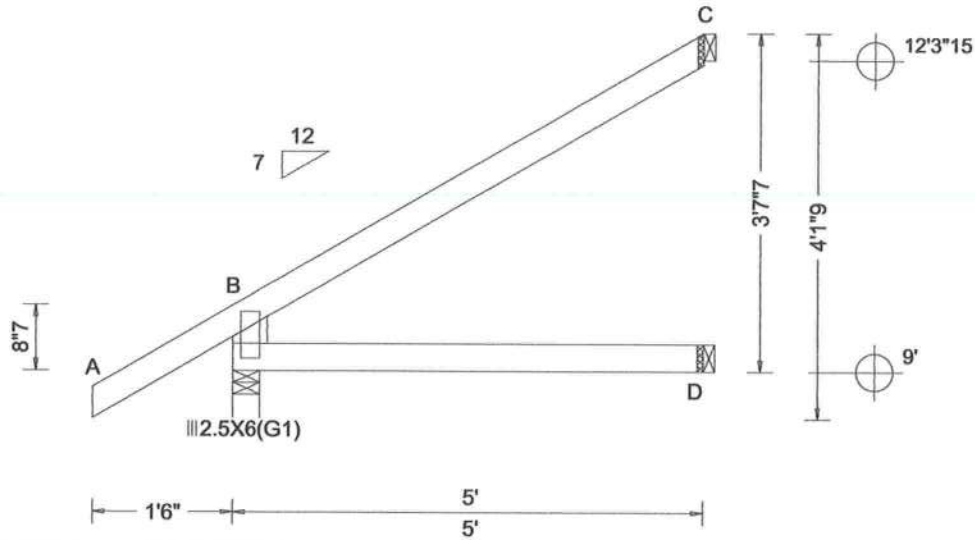
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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	317	/-	/-	/221	/25	/127
BCDL: 10.00		Risk Category: II	Snow Duration: NA		HORZ(LL): 0.004 B	- -	D	95	/-	/-	/52	/-	/-
Des Ld: 40.00		EXP: C Kzt: NA			HORZ(TL): 0.009 B	- -	C	137	/-	/-	/90	/79	/-
NCBCLL: 10.00		Mean Height: 15.00 ft	Building Code:		Creep Factor: 2.0		Wind reactions based on MWFRS						
Soffit: 0.00		TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.		Max TC CSI: 0.396		B	Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Load Duration: 1.25		BCDL: 5.0 psf	TPI Std: 2014		Max BC CSI: 0.266		D	Brg Wid = 1.5 Min Req = -					
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		Max Web CSI: 0.000		C	Brg Wid = 1.5 Min Req = -					
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)				Bearing B is a rigid surface.						
		Loc. from endwall: not in 4.50 ft	Plate Type(s):		VIEW Ver: 21.02.00.1005.17		Members not listed have forces less than 375#						
		GCpi: 0.18											
		Wind Duration: 1.60	WAVE										

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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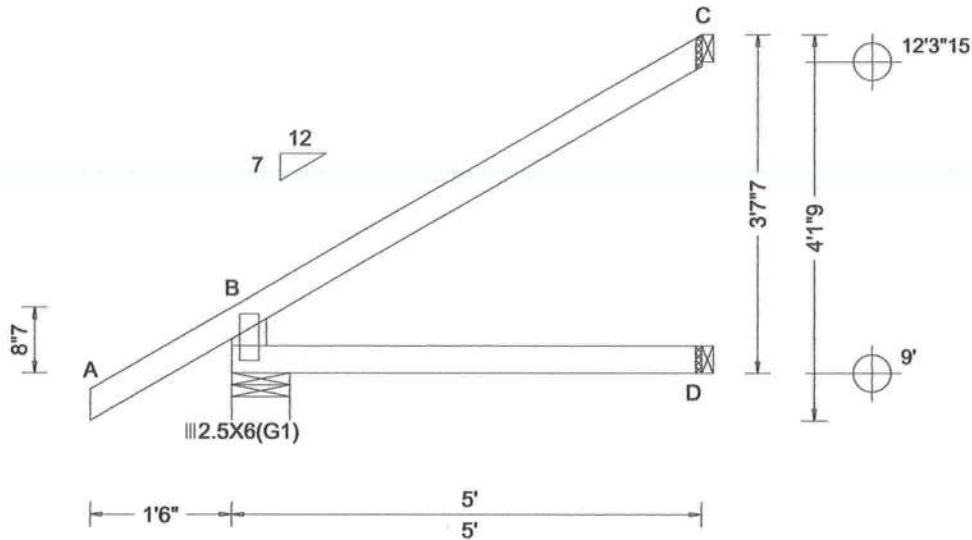
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116679 /	JACK	Ply: 1	Job Number: 22-8296	Cust: R 215 JRef: 1XJO2150005 T20 /
FROM:		Qty: 1	Hagan	DrwNo: 283.22.1117.08465
			Truss Label: J07	AK / DF 10/10/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	B	317	/-	/-	/221	/25	/127
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	D	95	/-	/-	/52	/-	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 B - -	C	137	/-	/-	/90	/79	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.009 B - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	B	Brg Wid = 7.5 Min Req = 1.5 (Truss)					
Soffit: 0.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.396	D	Brg Wid = 1.5 Min Req = -					
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.266	C	Brg Wid = 1.5 Min Req = -					
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000	Bearing B is a rigid surface.						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	Loc. from endwall: not in 4.50 ft	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Stub Wedge: 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.



COA #0278

Florida Certificate of Product Approval #FL 1999

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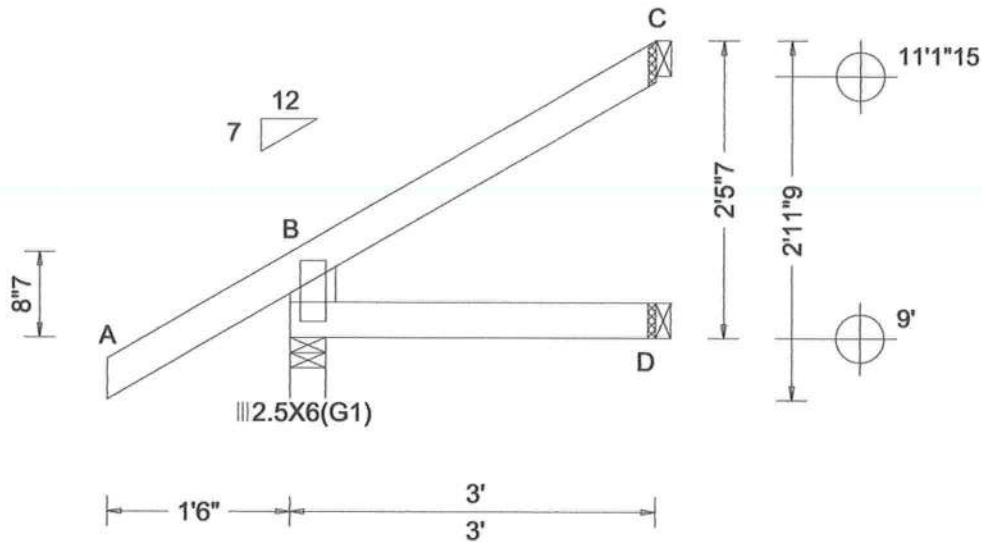
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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 C - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.176 Max BC CSI: 0.082 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 243 /- /- /178 /26 /86 D 55 /- /- /32 /- /- C 74 /- /- /47 /47 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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;
Lt Stub Wedge: 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.



COA #0278

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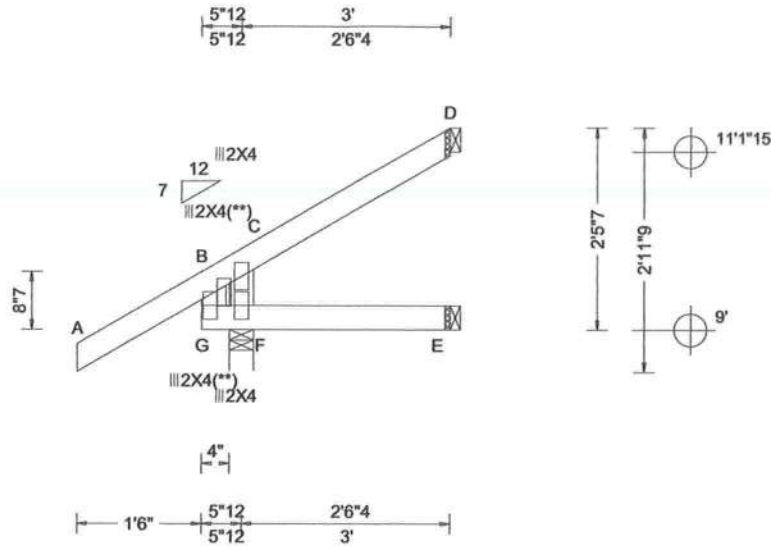
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 117557 / FROM:	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: J09	Cust: R 215 JRef: 1XJO2150005 T21 / DrwNo: 283.22.1117.08964 AK / DF 10/10/2022
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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): 0.002 B 999 240 VERT(CL): 0.004 B 999 180 HORZ(LL): 0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.187 Max BC CSI: 0.103 Max Web CSI: 0.250 VIEW Ver: 21.02.00B.1108.20	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 220 /- /- /178 /64 /- E 37 /- /112 /21 /- /114 D 110 /- /112 /65 /9 /86 Wind reactions based on MWFRS F Brg Wid = 3.5 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D 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;

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.

Left end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



COA #00278

Florida Certificate of Product Approval #FL 1999

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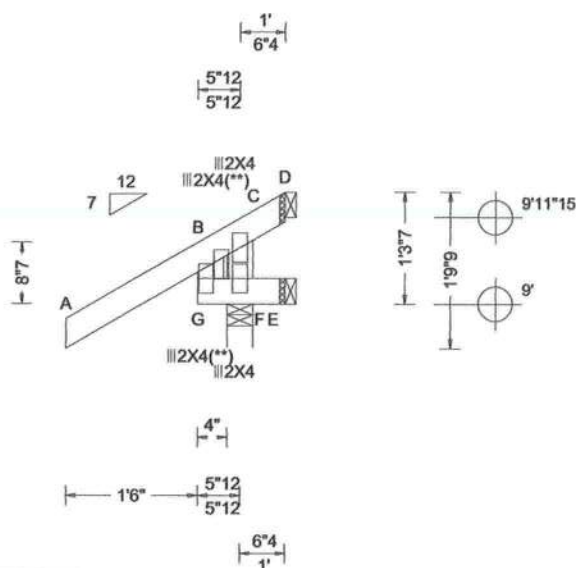
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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):	0.002	B	999	240	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	0.004	B	999	180	F	217	/-	/-	/206	/72	/-
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL):	0.001	B	-	-	E	-	/-37	/129	/18	/37	/129
		EXP:	C Kzt: NA				HORZ(TL):	0.002	B	-	-	D	-	/-10	/129	/24	/25	/101
Des Ld:	40.00	Mean Height:	0.00 ft	Building Code:			Creep Factor:		2.0	Wind reactions based on MWFRS								
NCBCLL:	10.00	TCDL:	5.0 psf	FBC 7th Ed. 2020 Res.			Max TC CSI:	0.242	F Brg Wid = 3.5 Min Req = 1.5 (Truss)									
Soffit:	0.00	BCDL:	5.0 psf	TPI Std: 2014			Max BC CSI:	0.141	E Brg Wid = 1.5 Min Req = -									
Load Duration:	1.25	MWFRS Parallel Dist:	> 2h	Rep Fac: Yes			Max Web CSI:	0.347	D Brg Wid = 1.5 Min Req = -									
Spacing:	24.0 "	C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)			Bearing F is a rigid surface.											
		Loc. from endwall:	Any	Plate Type(s):			Members not listed have forces less than 375#											
		GCpi:	0.18	WAVE			VIEW Ver: 21.02.00B.1108.20											
		Wind Duration:	1.60															

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.

Left end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



COA #0278

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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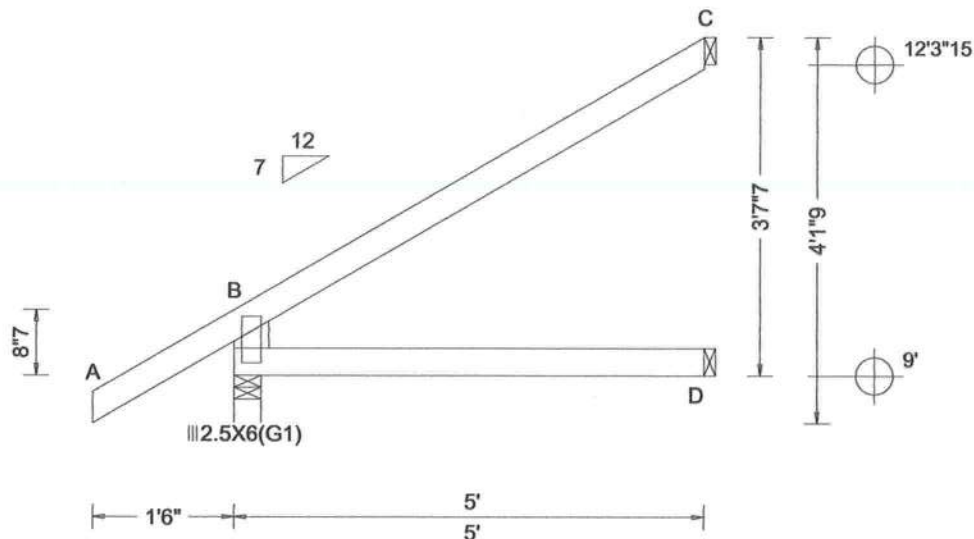
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or building of trusses. A seal on this drawing or cover page listing this drawing, 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.

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

SEQN: 116650 / FROM:	EJAC	Ply: 1 Qty: 3	Job Number: 22-8296 Hagan Truss Label: J11	Cust: R 215 JRef: 1XJO2150005 T6 / DrwNo: 283.22.1117.09433 AK / DF 10/10/2022
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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): 0.009 B - - Creep Factor: 2.0 Max TC CSI: 0.396 Max BC CSI: 0.266 Max Web CSI: 0.000 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 317 /- /- /221 /25 /127 D 95 /- /- /52 /- /- C 137 /- /- /90 /79 /- Wind reactions based on MWFRS B Brg Wid = 3.5 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;
Lt Stub Wedge: 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.



COA #0-278

10/11/2022

Florida Certificate of Product Approval #FL 1999

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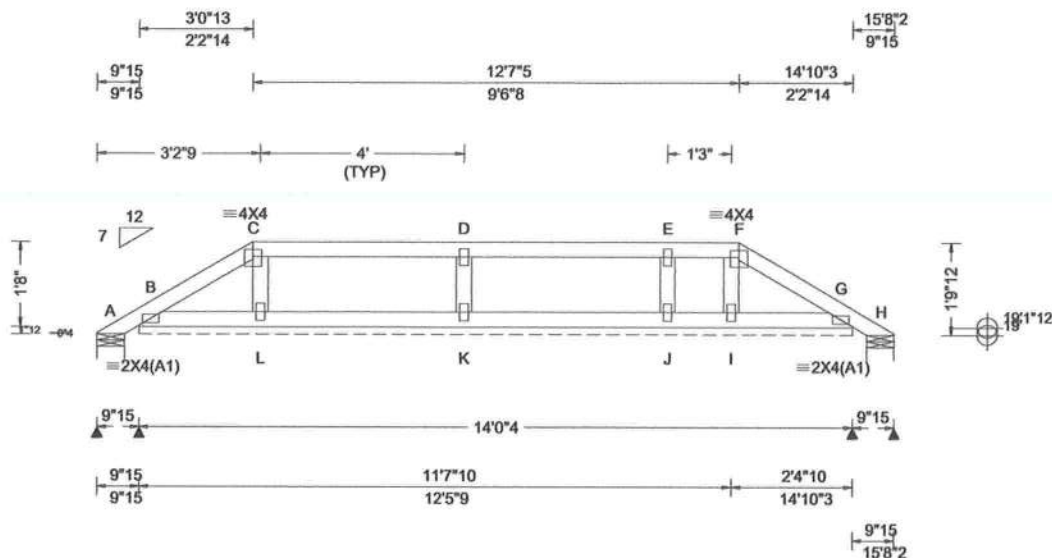
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116842 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: PB01	Cust: R 215 JRef: 1XJO2150005 T53 / DrwNo: 283.22.1117.09245 AK / DF 10/10/2022
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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: 19.92 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.55 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 G 999 240 VERT(CL): 0.001 G 999 180 HORZ(LL): 0.000 G - - HORZ(TL): 0.001 G - - Creep Factor: 2.0 Max TC CSI: 0.217 Max BC CSI: 0.049 Max Web CSI: 0.070 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 3 /- /- /30 /22 /45 B* 71 /- /- /47 /17 /- H 2 /- /- /5 /- /- K /-103 Wind reactions based on MWFRS A Brg Wid = 6.5 Min Req = 1.5 (Truss) B Brg Wid = 168 Min Req = - H Brg Wid = 6.5 Min Req = 1.5 (Truss) Bearings A, B, & H 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.

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

Refer to DWG PB160160118 for piggyback details.



COA #0278

Florida Certificate of Product Approval #FL 1999

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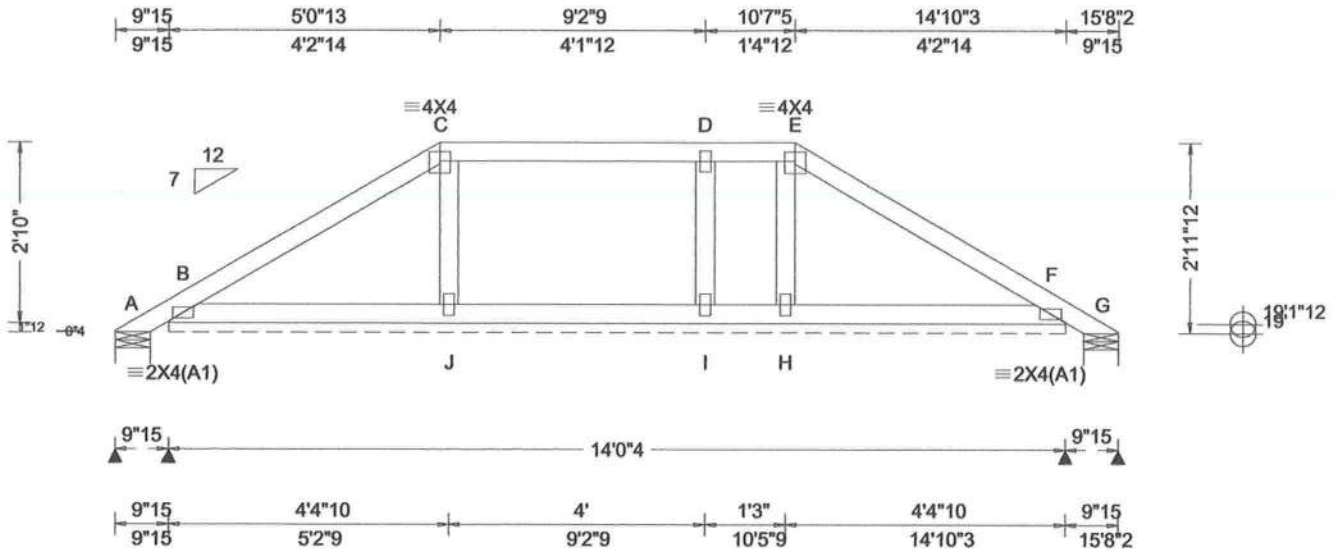
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116844 /	COMN	Ply: 1	Job Number: 22-8296	Cust: R 215 JRef: 1XJO2150005 T55 /
FROM:		Qty: 1	Hagan	DrwNo: 283.22.1117.08730
			Truss Label: PB02	AK / DF 10/10/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
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): 0.002 F 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 F 999 180	A - /-85 /- /72 /109 /77
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 F - -	B* 84 /- /- /56 /15 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 F - -	G - /-85 /- /33 /72 /-
NCBCLL: 10.00	Mean Height: 20.50 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 0.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.205	A Brg Wid = 6.5 Min Req = 1.5 (Truss)
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.080	B Brg Wid = 168 Min Req = -
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.062	G Brg Wid = 6.5 Min Req = 1.5 (Truss)
	C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)		Bearings A, B, & G are a rigid surface.
	Loc. from endwall: not in 13.00 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17	
	Wind Duration: 1.60			

Lumber

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

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

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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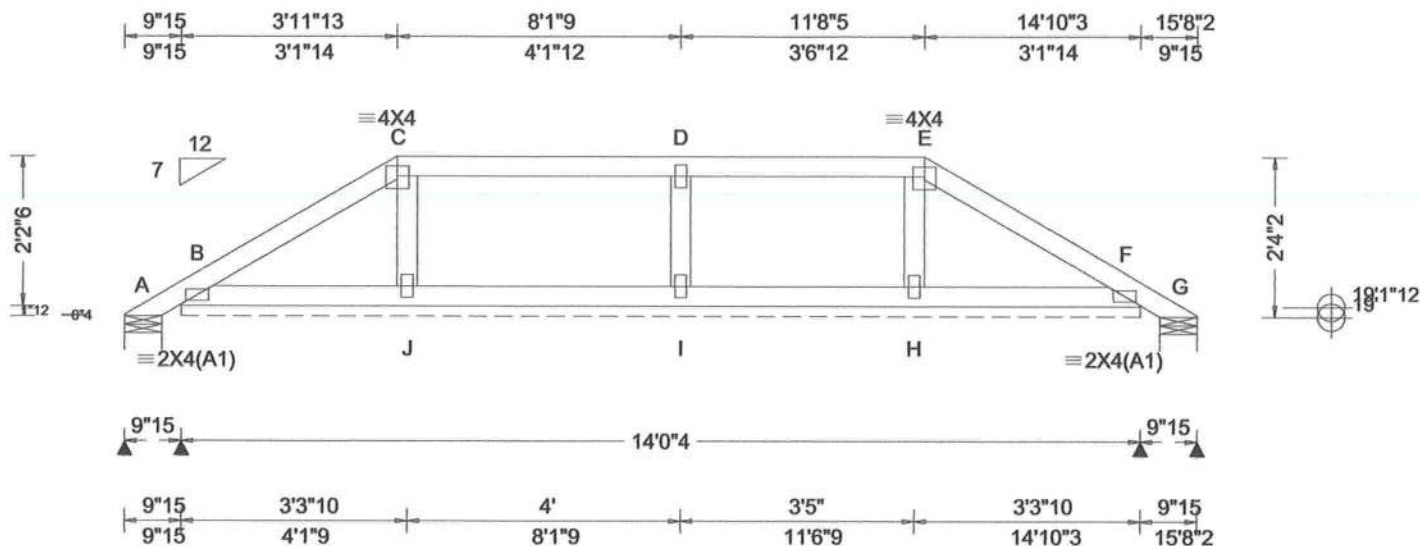
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116846 /	COMN	Ply: 1	Job Number: 22-8296	Cust: R 215	JRef: 1XJO2150005	T57 /
FROM:		Qty: 1	Hagan	DrwNo: 283.22.1117.07949		
			Truss Label: PB03	AK / DF	10/10/2022	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCCL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 F 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCCL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 F 999 180	A - /-28 /- /44 /51 /59
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 B - -	B* 76 /- /- /50 /16 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B - -	G - /-28 /- /13 /23 /-
NCBCLL: 10.00	Mean Height: 20.18 ft	Building Code:	Creep Factor: 2.0	I /-105
Soffit: 0.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.217	Wind reactions based on MWFRS
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.058	A Brg Wid = 6.5 Min Req = 1.5 (Truss)
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.070	B Brg Wid = 168 Min Req = -
	C&C Dist a: 3.55 ft	FT/RT:20(0)/10(0)		G Brg Wid = 6.5 Min Req = 1.5 (Truss)
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 21.02.00.1005.17	Bearings A, B, & G are a rigid surface.
	GCpi: 0.18	WAVE		Members not listed have forces less than 375#
	Wind Duration: 1.60			

Lumber

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

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.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0228

Florida Certificate of Product Approval #FL 1999

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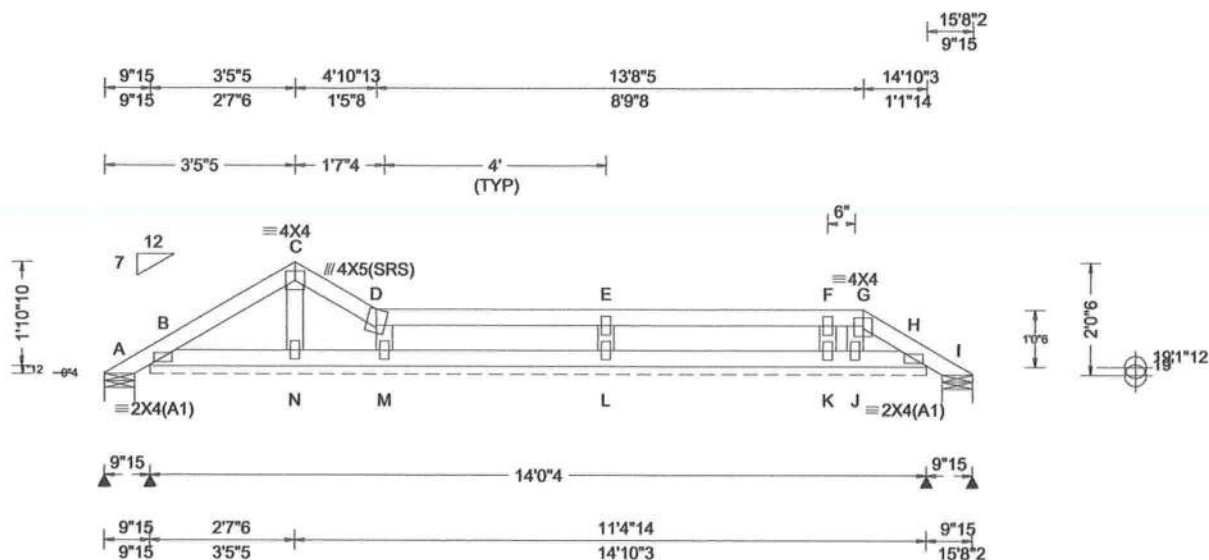
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 116848 / FROM:	COMN	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: PB04	Cust: R 215 JRef: 1XJO2150005 T61 / DrwNo: 283.22.1117.07951 AK / DF 10/10/2022
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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		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): 0.001 B 999 240			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA	Cs: NA		VERT(CL): 0.001 B 999 180			A	-	/-7	/-	/32	/32	/51
BCDL: 10.00		Risk Category: II		Snow Duration: NA			HORZ(LL): 0.000 B - -			B*	71	/-	/-	/48	/16	/-
Des Ld: 40.00		EXP: C Kzt: NA					HORZ(TL): 0.001 B - -			I	19	/-	/-	/18	/4	/-
NCBCLL: 10.00		Mean Height: 20.03 ft		Building Code:			Creep Factor: 2.0			Wind reactions based on MWFRS						
Soffit: 0.00		TCDL: 5.0 psf		FBC 7th Ed. 2020 Res.			Max TC CSI: 0.194			A	Brg Wid = 6.5		Min Req = 1.5 (Truss)			
Load Duration: 1.25		BCDL: 2.0 psf		TPI Std: 2014			Max BC CSI: 0.049			B	Brg Wid = 168		Min Req = -			
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes			Max Web CSI: 0.066			I	Brg Wid = 6.5		Min Req = 1.5 (Truss)			
		C&C Dist a: 3.55 ft		FT/RT:20(0)/10(0)						Bearings A, B, & I are a rigid surface.						
		Loc. from endwall: not in 13.00 ft		Plate Type(s):						Members not listed have forces less than 375#						
		GCpi: 0.18		WAVE												
		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;

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.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0278

Florida Certificate of Product Approval #FL 1999

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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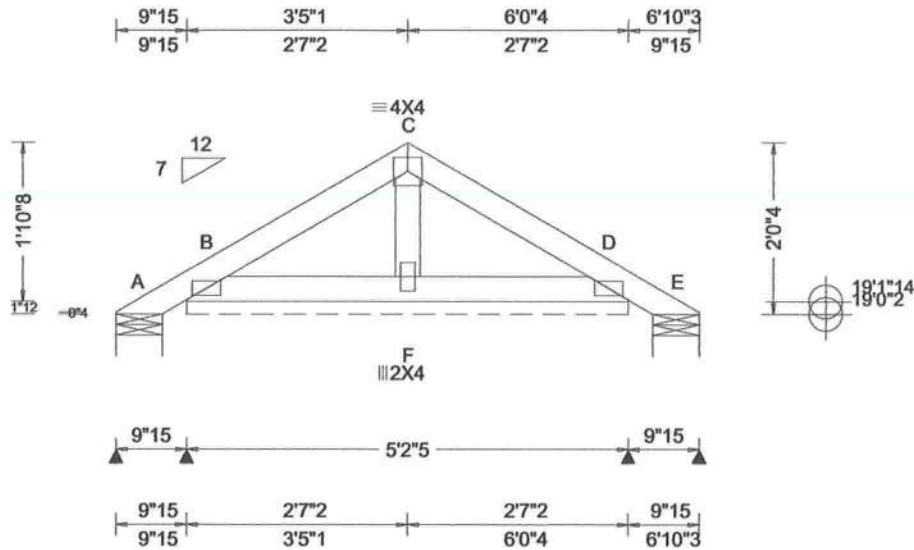
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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: 20.03 ft TCDL: 5.0 psf BCDL: 2.0 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): 0.001 D 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.001 D - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.090 Max BC CSI: 0.033 Max Web CSI: 0.015 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-8 /- /31 /36 /51 B* 84 /- /- /56 /36 /- E - /-8 /- /6 /10 /- Wind reactions based on MWFRS A Brg Wid = 6.5 Min Req = 1.5 (Truss) B Brg Wid = 62.3 Min Req = - E Brg Wid = 6.5 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) 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.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0278

10/11/2022
Florida Certificate of Product Approval #FL 1999

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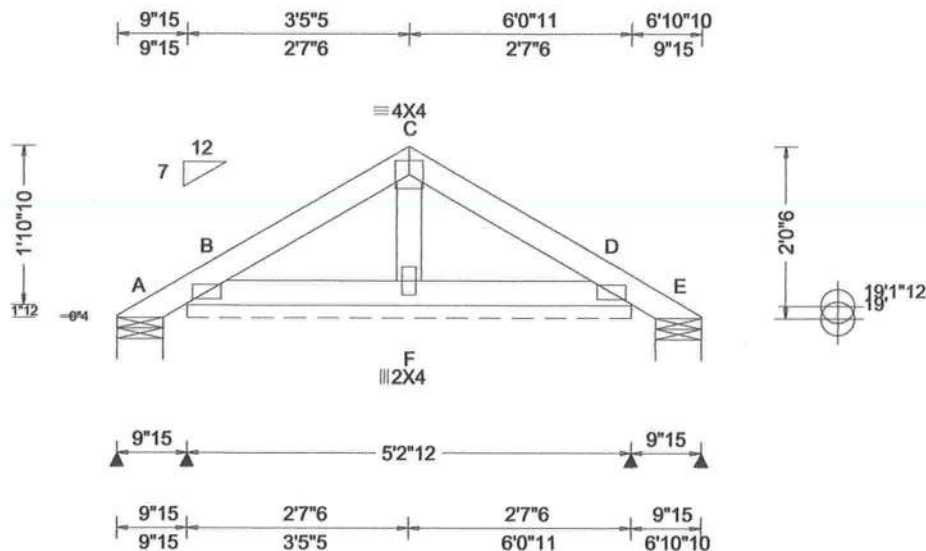
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A 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



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



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: 20.03 ft TCDL: 5.0 psf BCDL: 2.0 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): 0.001 B 999 240 VERT(CL): 0.001 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.065 Max BC CSI: 0.033 Max Web CSI: 0.015 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL A - /-9 /- /31 /36 /51 B* 84 /- /- /56 /15 /- E - /-9 /- /5 /11 /- Wind reactions based on MWFRS A Brg Wid = 6.5 Min Req = 1.5 (Truss) B Brg Wid = 62.8 Min Req = - E Brg Wid = 6.5 Min Req = 1.5 (Truss) Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) 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.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0278

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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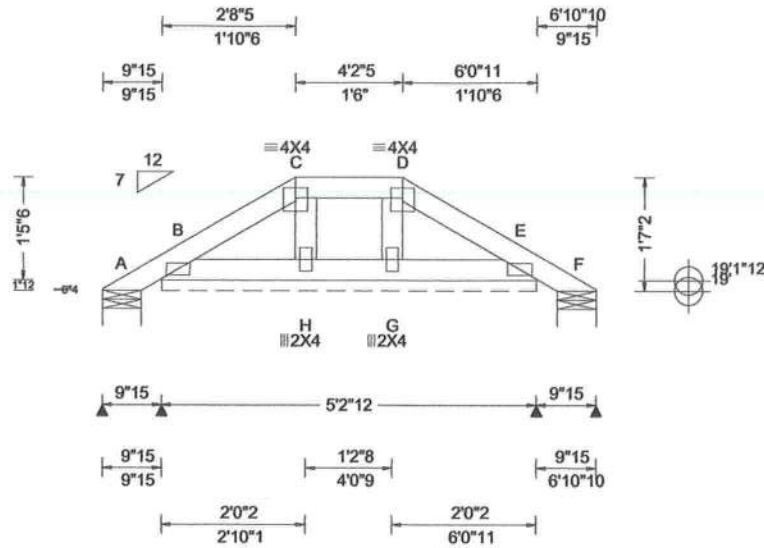
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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.

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

SEQN: 116856 / FROM:	COMM Qty: 1	Ply: 1 Qty: 1	Job Number: 22-8296 Hagan Truss Label: PB07	Cust: R 215 JRef: 1XJO2150005 T64 / DrwNo: 283.22.1117.08902 AK / DF 10/10/2022
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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: 19.81 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 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): 0.000 B 999 180 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.033 Max BC CSI: 0.018 Max Web CSI: 0.014 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 11 /- /- /27 /17 /39 B* 77 /- /- /54 /9 /- F 11 /- /- /10 /1 /- Wind reactions based on MWFRS A Brg Wid = 6.5 Min Req = 1.5 (Truss) B Brg Wid = 62.8 Min Req = - F Brg Wid = 6.5 Min Req = 1.5 (Truss) Bearings A, B, & F 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(A1) 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.
Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



Florida Certificate of Product Approval #FL 1999

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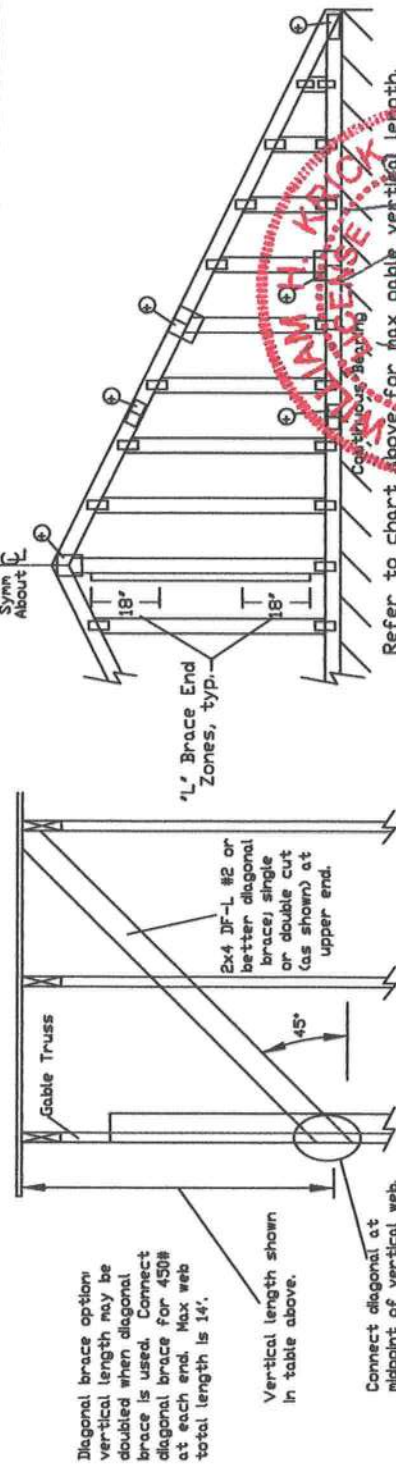
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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Glenview, IL 60025

$C, K_{zt} = 1.00$

Dr	120 mph	Wind Speed, 15'	Mean Height, Partially Enclosed, Exposure C, Kzt = 100
Dr	120 mph	Wind Speed, 15'	Mean Height, Enclosed, Exposure D, Kzt = 100
Dr	100 mph	Wind Speed, 15'	Mean Height, Partially Enclosed, Exposure D, Kzt = 100

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



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

REF	ASCE7-16-GAB14015
DATE	01/26/2018
DRWG	A14015ENC160118

MAX TPT 1 D 60 PSE

APPROVAL #FLA09RG 24.0"

==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 the latest edition of ECSC Guiding Component Safety Installation, by TPI and SICSA for safety instructions prior to performing these functions. Installers shall provide temporary bracing per ECSC's noted proprietary design. Truss members have properly attached sheathing and bottom chord bracing installed per ECSC sections 32, 37 or B10, as applicable. Apply plates to each end of all truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpha, a division of ITV Building Components Group Inc. shall not be responsible for any deviations from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

The undersigned hereby certifies that this page listing this drawing indicates acceptance of professional engineering responsibility for the design shown. The authority and seal of the engineer are required for the drawing to be valid. Professional responsibility solely for the design shown rests with the Engineer per ANSI/TPI 1 Sec 2.

No other person's responsibility for the structure is the responsibility of the Building Envelope per ANSI/TPI 1 Sec 2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineco.com TPI: www.tpi.org SICSA: www.sicscapointss.com. info@alpineco.com

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

CLR Reinforcing

Member Substitution

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

Notes:

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

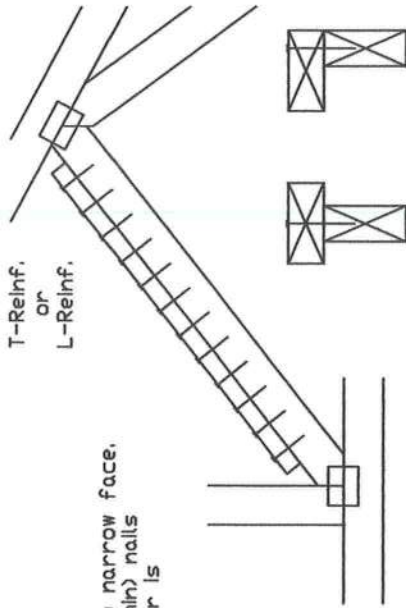
Center scab on wide face of web. Apply (1) scab to each face of web.

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.

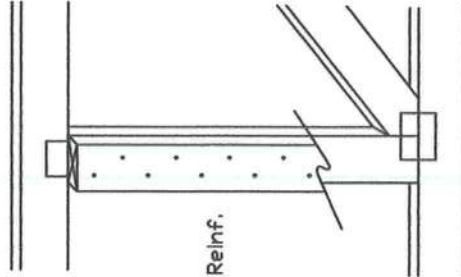


T-Reinf.

L-Reinf.

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.



Scab Reinf.



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING. THE INSTALLER SHALL FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE TRUSS MANUFACTURER. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of ECSI Guiding Component Safety Information, by TPI and SCSA for safety practices prior to performing these functions. Installers shall provide temporary bracing per ECSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached roof ceiling. Locations shown for permanent lateral restraint of trusses shall be maintained per above and on the Job Details, unless noted otherwise. Refer to drawings 150A-2 for standard plate positions. Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this Job's general notes page and these web sites: ALPINE: www.alpine.com TPI: www.tpi.com SCSA: www.scsacomponents.com ICD: www.icdusa.org

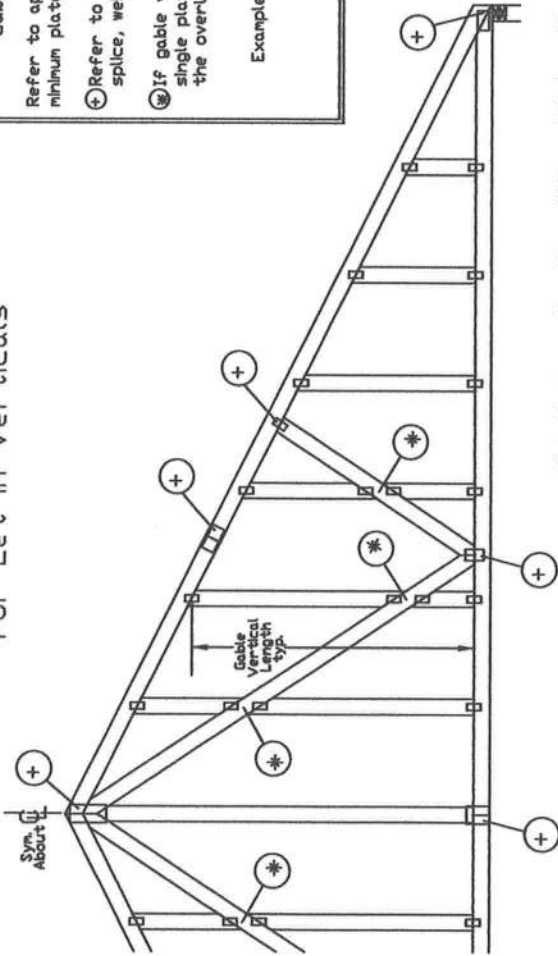
TS LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. L.D.	PSF		
DUR. FAC.			
APPROVAL			

10/11/2022

COA #0278

Florida Certificate of Product Approval

Gable Detail For Let-In Verticals

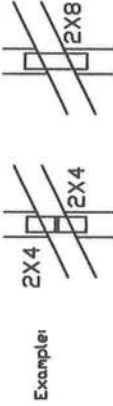


Gable Truss Plate Sizes

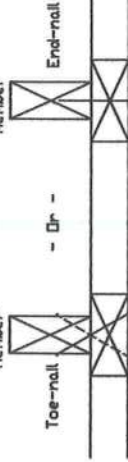
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



'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"x3.7min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3.7min) 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.

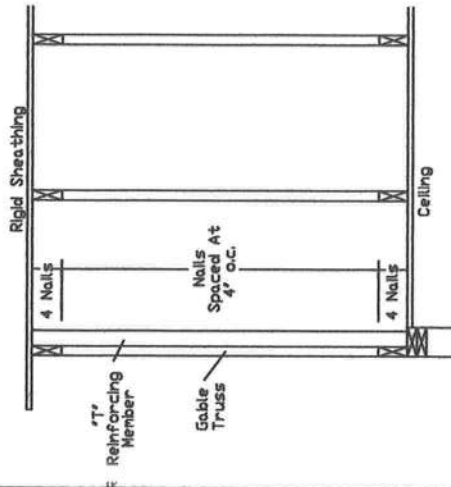
ASCE 7-05 Gable Detail Drawings

A13005051014, A12015051014, A10015051014, A14015051014, A130030051014, A120030051014, A10030051014, A14030051014

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A15015ENC100118, A18015ENC100118, A20015ENC100118, A22015ENC100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A15030ENC100118, A18030ENC100118, A20030ENC100118, A22030ENC100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S22015ENC100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S22030ENC100118

See appropriate Alpine gable detail for maximum gable vertical length.



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Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, or for any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

This drawing is the property of Alpine. It is to be used only for the specific project and location shown. For any structure the responsibility of the Building Designer per ANSI/TPI 1, Sec 2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineusa.com, TPI: www.tpi.org, SBCA: www.sbcacorporations.com, ICD: www.icdusa.com



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



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

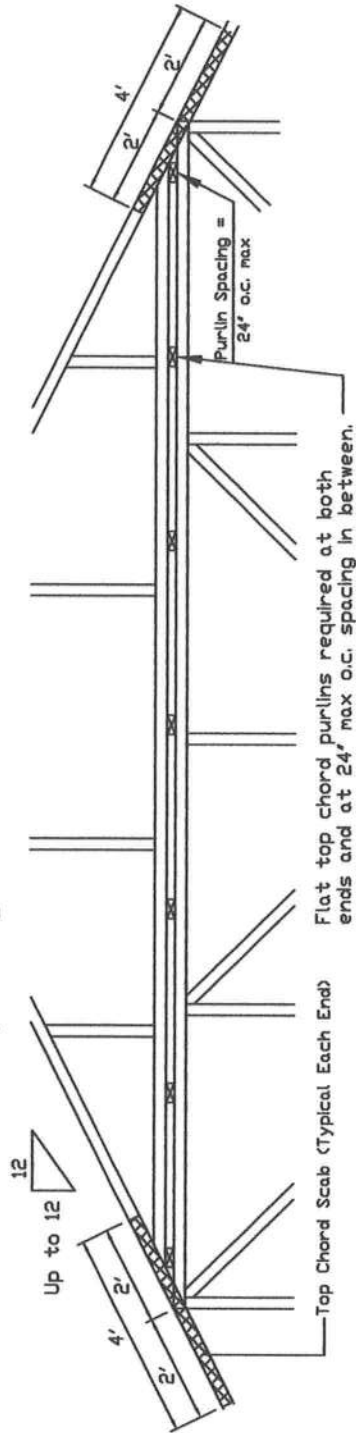
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, wind DL= 50 psf (min), Kzt=1.0.

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.

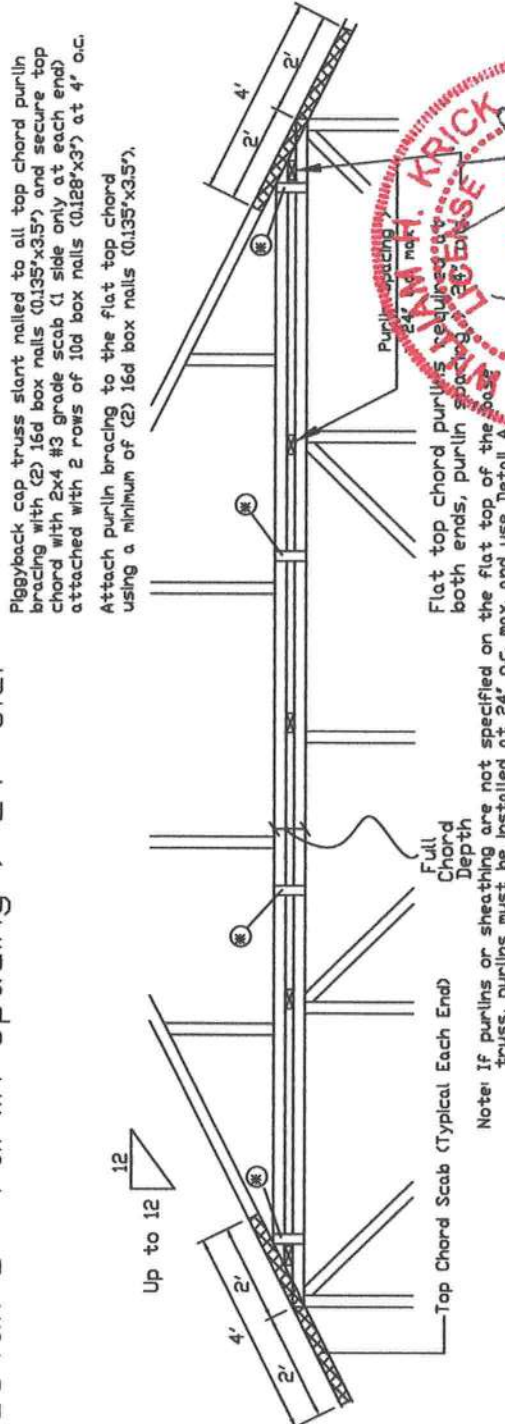
Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

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



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").

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Building Component Safety Information, by TPI and SBCA for best 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 temporary bracing. BCSI Building Component Safety Information shall be followed for all details of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. A seal on this drawing or cover page listing the drafter, indicates acceptance of professional engineering responsibility for the design shown. The authority and seal of the drafter are hereby acknowledged. For more information see this job's general notes page and these web sites: ALPINE: www.alpineinc.com TPI: www.tpi.com SBCA: www.sbcacomponents.com ICD: www.icdusa.org

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10/11/2022

COA #0-278

Florida Certificate of Product Approval

REF PIGGYBACK

DATE 01/02/2018

DRWG PB160160118