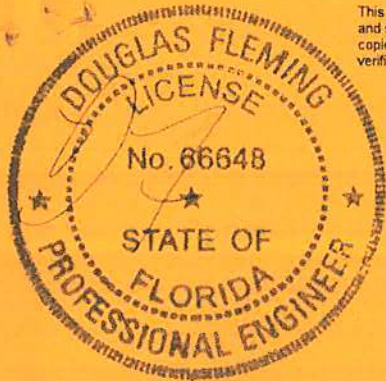




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Glenview, IL 60025
Phone: (800)755 6001
www.alpineitw.com

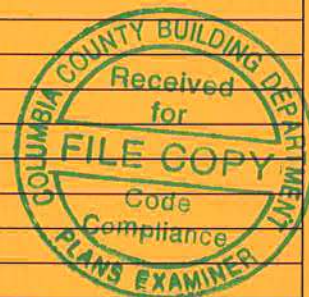
Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B55557a
Job Description: Flander Res	
Address: 171 NW Ambleside Dr, LAKE CITY, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.03A
	JRef #: 1XGT8570002
Wind Standard: ASCE 7 16	Wind Speed (mph): 140
Building Type: Closed	Design Loading (psf): 37.00

This package contains general notes pages, 50 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	181.22.0758.54390	CJ2
3	181.22.0758.44300	CJ6
5	181.22.0758.47573	CJ4A
7	181.22.0759.58850	HJ11
9	181.22.0758.27617	H10A
11	181.22.0759.25760	S8
13	181.22.0759.29930	S6
15	181.22.0759.33953	S4
17	181.22.0759.37250	S2
19	181.22.0800.16807	H17A
21	181.22.0758.45960	CJ4B
23	181.22.0759.57203	HJ11A
25	181.22.0800.00887	HG8C
27	181.22.0758.29250	GE7
29	181.22.0758.40780	CJ6B
31	181.22.0759.44183	HJ7
33	181.22.0800.15300	H7A
35	181.22.0800.25780	H11A
37	181.22.0800.19873	H15A
39	181.22.0800.18350	H15B
41	181.22.0759.22163	T 1
43	181.22.0758.30773	GE6
45	181.22.0758.32110	GE5
47	181.22.0759.18423	T 3
49	181.22.0759.00827	TG 1

Item	Drawing Number	Truss
2	181.22.0758.49257	CJ4
4	181.22.0758.36277	EJ8A
6	181.22.0758.42683	CJ6A
8	181.22.0800.06863	HG8A
10	181.22.0800.22800	H12A
12	181.22.0759.27940	S7
14	181.22.0759.31753	S5
16	181.22.0759.35833	S3
18	181.22.0759.38730	S1
20	181.22.0758.52863	CJ2A
22	181.22.0758.39097	CJ6C
24	181.22.0758.34813	EJ8B
26	181.22.0758.56267	CJ1
28	181.22.0758.51063	CJ3
30	181.22.0758.37680	EJ8
32	181.22.0800.10567	HG5A
34	181.22.0800.12687	H9A
36	181.22.0800.21330	H13A
38	181.22.0759.42940	PB1
40	181.22.0759.41610	PB2
42	181.22.0759.40033	PB3
44	181.22.0759.02497	T 4
46	181.22.0759.20257	T 2
48	181.22.0758.33483	GE1
50	181.22.0800.04330	HG8B





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Site Information:	Page 2:
Customer: Seminole Trusses, Inc.	Job Number: B55557a
Job Description: Flander Res	
Address: 171 NW Ambleside Dr, LAKE CITY, FL	

Item	Drawing Number	Truss
51	CNNAILSP1014	
53	PB180160118	
55	A14015ENC160118	
57	DEFLCAMB1014	

Item	Drawing Number	Truss
52	PB160160118	
54	REPCHRD1014	
56	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.

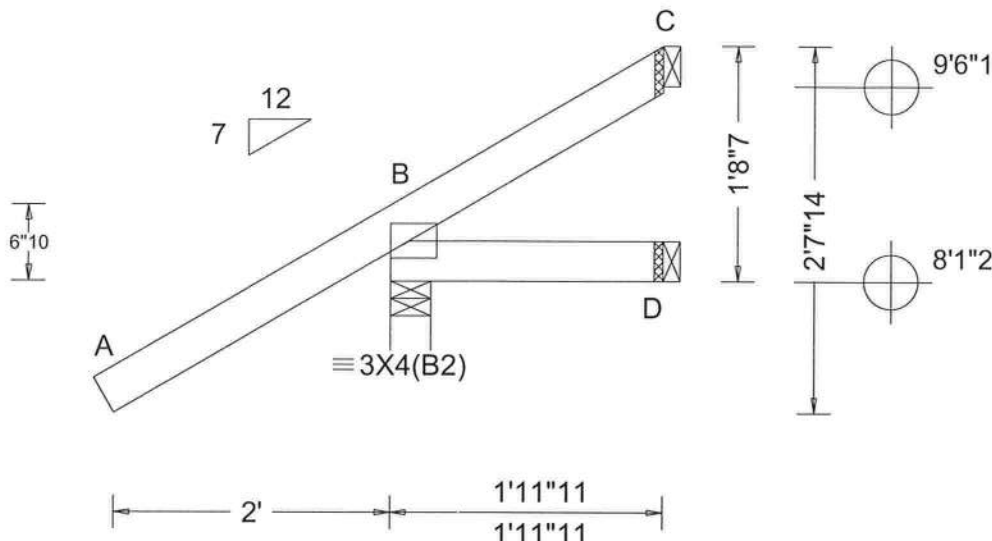
Refer to ASCE 7 for Wind and Seismic abbreviations.

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.

SEQN: 115283 FROM: RNB	JACK Qty: 6	Ply: 1 Truss Label: CJ2	Job Number: B55557a Flander Res	Cust: R 857 JRef: 1XGT8570002 T47 DrwNo: 181.22.0758.54390 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.002 C HORZ(TL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.473 Max BC CSI: 0.069 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 277 / / /233 /88 /87 D 32 / / /26 /2 / C /6 / /44 /44 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

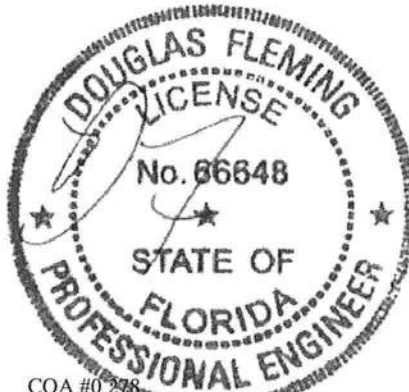
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	56	2.07	1.97
BC	22	0.13	1.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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

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

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

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



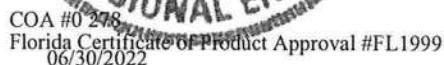
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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

Plates sized for a minimum of 3.50 sq.in./piece.

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

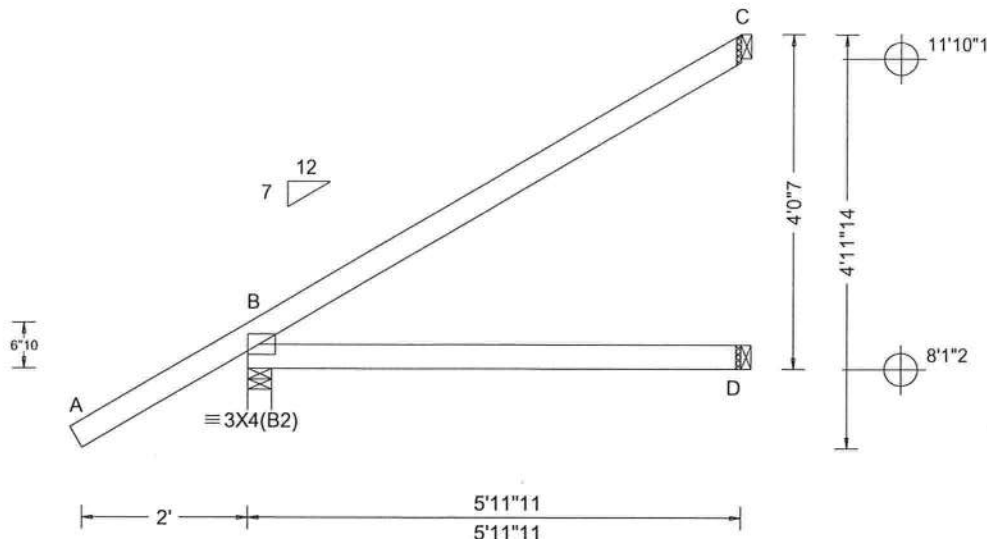
Wind loading based on both gable and hip roof types.



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SEQN: 115287 FROM: RNB	JACK Qty: 5	Ply: 1 Qty: 5	Job Number: B55557a Flander Res Truss Label: CJ6	Cust: R 857 JRef: 1XGT8570002 T46 DrwNo: 181.22.0758.44300 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 C HORZ(TL): 0.007 B Creep Factor: 2.0 Max TC CSI: 0.524 Max BC CSI: 0.276 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 380 / / /275 /73 /183 D 111 / / /63 / / C 141 / / /89 /115 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	5.97
BC	70	0.13	5.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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

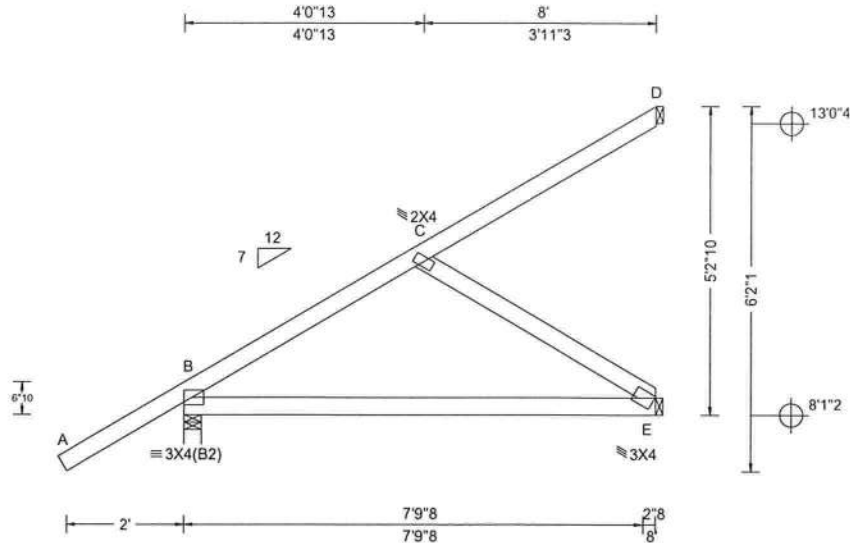
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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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SEQN: 115186 FROM: RNB	EJAC Qty: 20	Ply: 1 Qty: 20	Job Number: B55557a Flander Res Truss Label: EJ8A	Cust: R 857 JRef: 1XGT8570002 T49 DrwNo: 181.22.0758.36277 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft BCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 C 999 360 VERT(CL): 0.009 C 999 240 HORZ(LL): 0.004 E HORZ(TL): 0.009 B Creep Factor: 2.0 Max TC CSI: 0.350 Max BC CSI: 0.450 Max Web CSI: 0.109 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 448 / / / /313 /75 /231 E 196 / / / /148 /53 / D 95 / / / /63 /75 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	8.00
BC	75	0.13	7.86

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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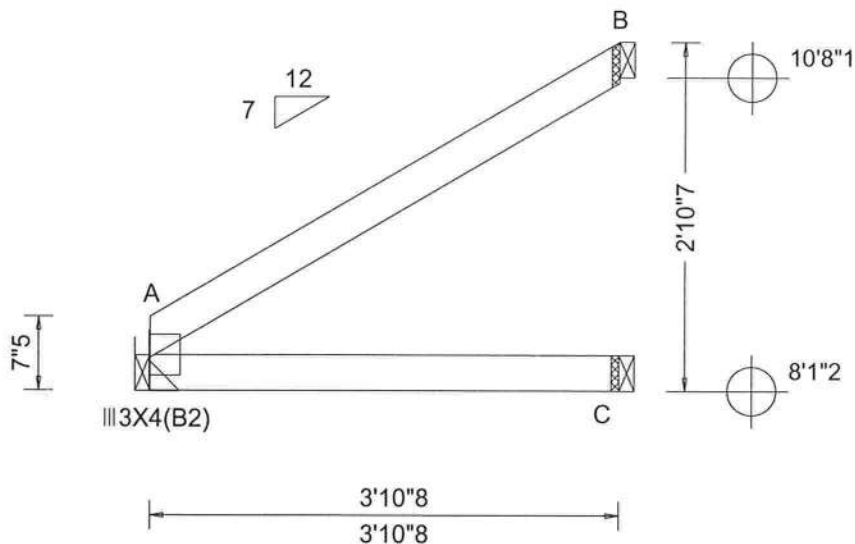
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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



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

SEQN: 115188 FROM: RNB	JACK Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: CJ4A	Cust: R 857 JRef: 1XGT8570002 T51 DrwNo: 181.22.0758.47573 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.003 B HORZ(TL): 0.004 A Creep Factor: 2.0 Max TC CSI: 0.263 Max BC CSI: 0.119 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL A 148 / / /87 /3 /91 C 75 / / /42 / / B 104 / / /70 /84 / Wind reactions based on MWFRS A Brg Wid = C Brg Wid = 1.5 B Brg Wid = 1.5 Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	54	0.00	3.88
BC	46	0.04	3.88

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



COA #0 278
Florida Certificate of Product Approval #FL1999
06/30/2022

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

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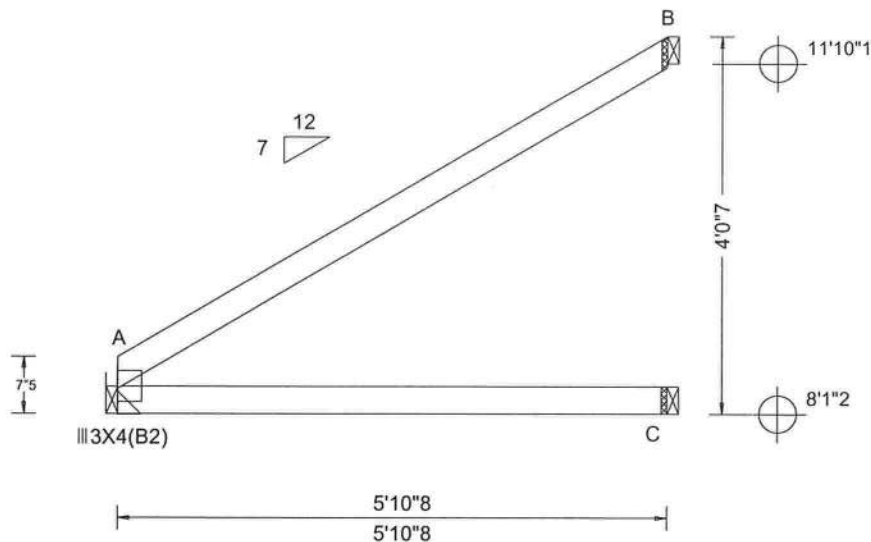
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115190 FROM: RNB	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: CJ6A	Cust: R 857 JRef: 1XGT8570002 T20 DrwNo: 181.22.0758.42683 SSB / DF 06/30/2022
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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		Gravity				Non Gravity		
TCDL: 7.00		Speed: 140 mph		Pf: NA		Ce: NA		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA	Cs: NA		VERT(LL): NA	A	224	/	/	/134	/9	/139
BCDL: 10.00		Risk Category: II		Snow Duration: NA			VERT(CL): NA	C	113	/	/	/64	/	/
Des Ld: 37.00		EXP: C Kzt: NA				Building Code:	HORZ(LL): 0.008 B	B	156	/	/	/105	/123	/
NCBCLL: 10.00		Mean Height: 15.00 ft				FBC 7th Ed. 2020 Res.	HORZ(TL): 0.015 A	Wind reactions based on MWFRS						
Soffit: 2.00		TCDL: 4.2 psf				TPI Std: 2014	Creep Factor: 2.0	A	Brg Wid =					
Load Duration: 1.25		BCDL: 6.0 psf				Rep Fac: Yes	Max TC CSI: 0.626	C	Brg Wid = 1.5					
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				FT/RT:20(0)/0(0)	Max BC CSI: 0.288	B	Brg Wid = 1.5					
		C&C Dist a: 3.00 ft				Plate Type(s):	Max Web CSI: 0.000	Members not listed have forces less than 375#						
		Loc. from endwall: not in 4.50 ft				WAVE	VIEW Ver: 21.01.03A.0805.15							
		GCpi: 0.18												
		Wind Duration: 1.60												

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	0.00	5.88
BC	70	0.04	5.88

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



COA #0248
Florida Certificate of Product Approval #FL1999
06/30/2022

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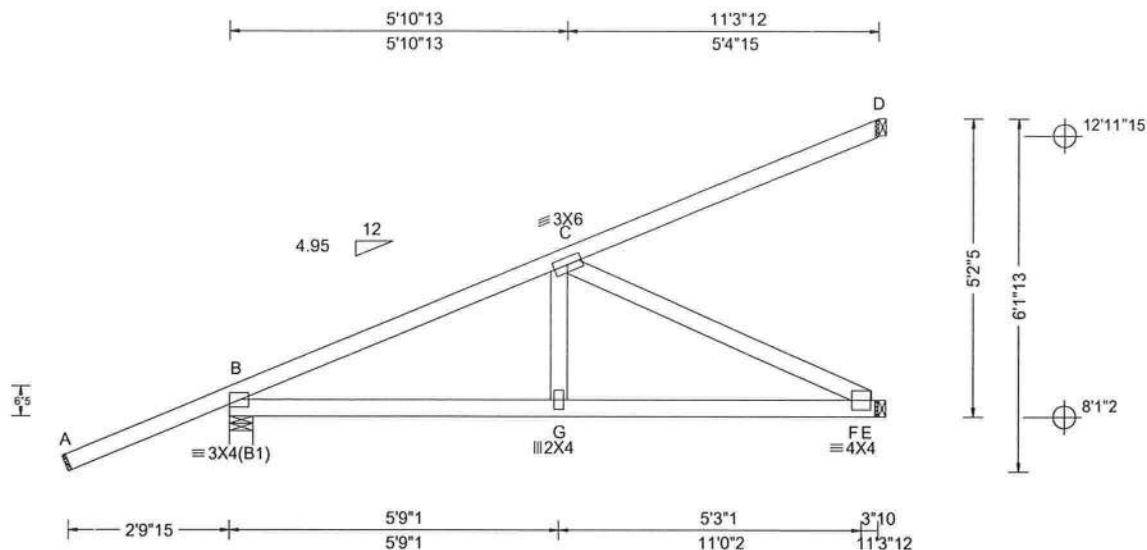
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115289 FROM: RNB	HIP_	Ply: 1 Qty: 3	Job Number: B55557a Flander Res Truss Label: HJ11	Cust: R 857 JRef: 1XGT8570002 T54 DrwNo: 181.22.0759.58850 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "		Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.031 G 999 360 VERT(CL): 0.058 G 999 240 HORZ(LL): 0.010 D HORZ(TL): 0.019 D Creep Factor: 2.0 Max TC CSI: 0.920 Max BC CSI: 0.685 Max Web CSI: 0.561 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 437 / / / /204 / E 433 / / / /114 / D 125 / / / /83 / Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B C 311 771

Lumber

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

Special Loads

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

TC: From	0 plf at	2.94 to	55 plf at	0.11
TC: From	2 plf at	0.11 to	2 plf at	11.31
BC: From	0 plf at	2.94 to	4 plf at	0.11
BC: From	2 plf at	0.11 to	2 plf at	11.31
TC:	7 lb Conc. Load at	2.85		
TC:	159 lb Conc. Load at	5.68		
TC:	282 lb Conc. Load at	8.51		
BC:	64 lb Conc. Load at	2.85		
BC:	145 lb Conc. Load at	5.68		
BC:	222 lb Conc. Load at	8.51		

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.88	11.31
BC	120	0.20	11.31

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0298
Florida Certificate of Product Approval #FL1999
06/30/2022

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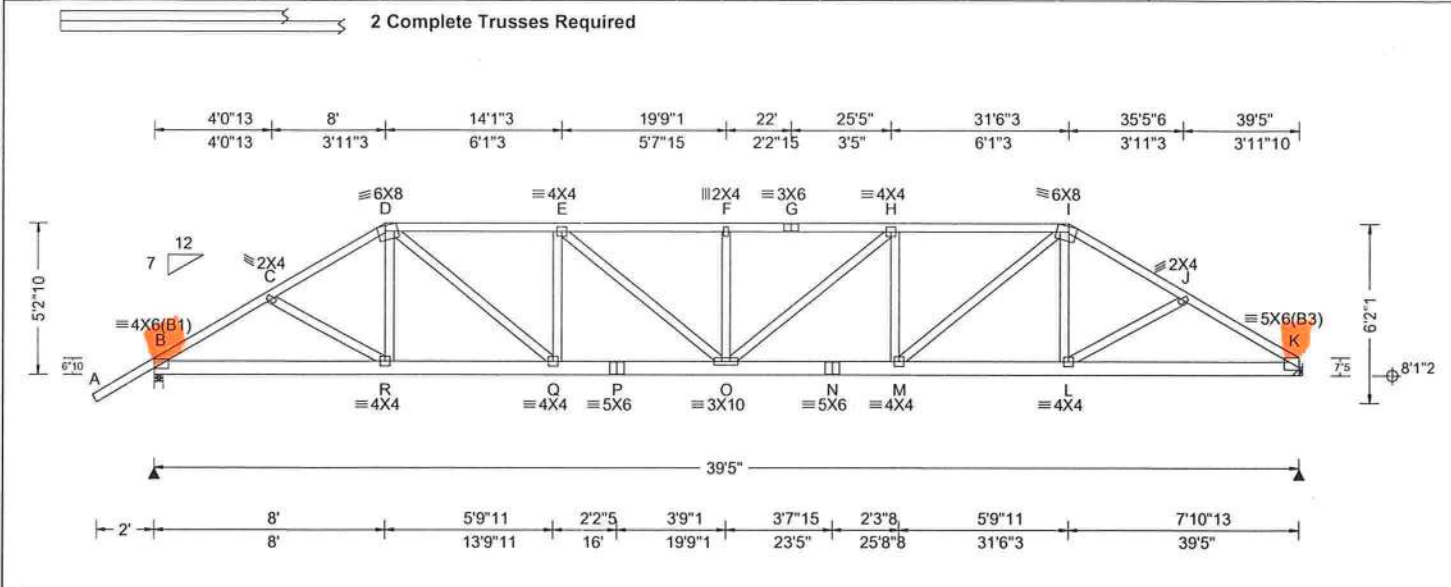
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



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:	7.00	Speed:	140 mph	Pf: NA		Ce: NA	VERT(LL):	0.252	F	999	360	Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	0.469	F	999	240	B	3625	/	/	/	/	/1361	/
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL):	0.063	D			K	3498	/	/	/	/	/1295	/
Des Ld:	37.00	EXP: C	Kzt: NA				HORZ(TL):	0.118	D			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 = 2.5					
Soffit:	2.00	TCDL:	4.2 psf	FBC 7th Ed. 2020 Res.			Max TC CSI:	0.999				K	Brg Wid =						
Load Duration:	1.25	BCDL:	6.0 psf	TPI Std:	2014		Max BC CSI:	0.979				Bearing B Fcperp = 425psi.							
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Varies by Ld Case			Max Web CSI:	0.516				Members not listed have forces less than 375#							
		C&C Dist a:	3.94 ft	FT/RT: 20(0)/0(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.				
		GCp:	0.18	WAVE								B	C	1166	3041	G	H	1537	3956
		Wind Duration:	1.60									O	O	1103	2893	U	U		

Lumber

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

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
(1) 1/2" bolts may be used for
(2) 0.128"x3", min. nails on
The Bottom Chord Only.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 2.15 to 56 plf at 8.00
TC: From 28 plf at 8.00 to 28 plf at 31.51
TC: From 56 plf at 31.51 to 56 plf at 39.42
BC: From 5 plf at 2.15 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.03
BC: From 10 plf at 8.03 to 10 plf at 31.48
BC: From 20 plf at 31.48 to 20 plf at 39.42
TC: 220 lb Conc. Load at 8.03, 31.48
TC: 95 lb Conc. Load at 10.06, 12.06, 14.06, 16.06
18.06, 19.76, 21.45, 23.45, 25.45, 27.45, 29.45
BC: 628 lb Conc. Load at 8.03, 31.48
BC: 196 lb Conc. Load at 10.06, 12.06, 14.06, 16.06
18.06, 19.76, 21.45, 23.45, 25.45, 27.45, 29.45

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	50	2.07	8.00
TC	24	8.00	31.51
TC	50	31.51	39.42
BC	113	0.15	39.29

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others



COA #0248
Florida Certificate of Product Approval #FL1999
06/30/2022

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non Gravity		
	R+	/ R	/ Rh	/ Rw	/ U	/ RL
B	3625	/	/	/	/1361	/
K	3498	/	/	/	/1295	/

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 2.5
K Brg Wid =
Bearing B Fcperp = 425psi.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.	Chords	Tens. Comp.
B C	1166 3041	G H	1537 3956		
C D	1137 2998	H I	1399 3611		
D E	1399 3613	I J	1135 2986		
E F	1537 3956	J K	1164 3027		
F G	1537 3956				

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.	Chords	Tens. Comp.
B R	2564 977	O N	3640 1415		
R Q	2580 977	N M	3640 1415		
Q P	3643 1415	M L	2570 974		
P O	3643 1415	L K	2550 976		

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.	Webs	Tens. Comp.
D Q	1344 550	O H	416 160		
Q E	265 489	H M	265 492		
E O	412 160	M I	1354 552		

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

SEQN: 115198	HIPS	Ply: 2	Job Number: B55557a	Cust: R 857 JRef: 1XGT8570002 T42
FROM: RNB		Qty: 1	Flander Res	DrwNo: 181.22.0800.06863
Page 2 of 2			Truss Label: HG8A	SSB / DF 06/30/2022

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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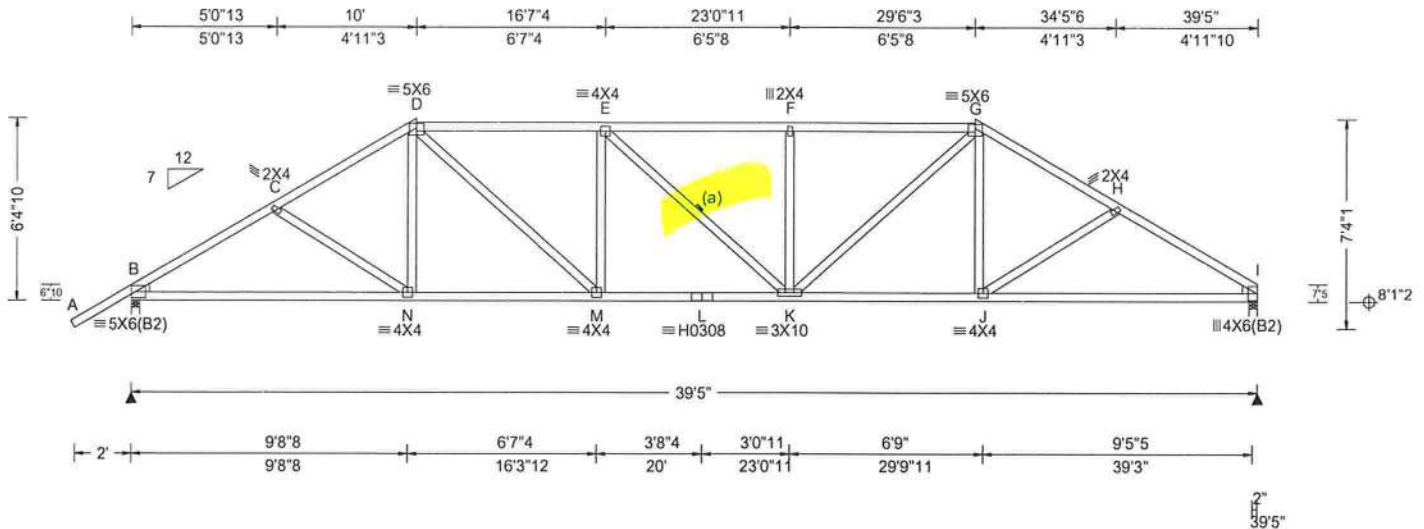
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115201 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: H10A	Cust: R 857 JRef: 1XGT8570002 T16 DrwNo: 181.22.0758.27617 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.94 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)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.183 F 999 360 VERT(CL): 0.345 F 999 240 HORZ(LL): 0.076 I HORZ(TL): 0.144 I Creep Factor: 2.0 Max TC CSI: 0.995 Max BC CSI: 0.974 Max Web CSI: 0.805 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1634 / / / /942 /443 /230 I 1496 / / / /818 /387 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 I Brg Wid = 3.5 Min Req = 1.9 Bearings B & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 1189 2420 F G 1452 2445 C D 1157 2220 G H 1167 2232 D E 1438 2427 H I 1208 2442 E F 1450 2443

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

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

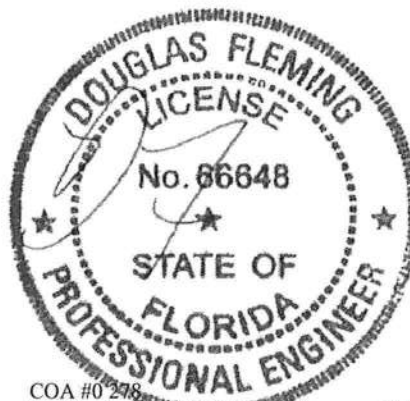
Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	38	2.07	10.00
TC	24	10.00	29.51
TC	41	29.51	39.42
BC	101	0.13	39.38

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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



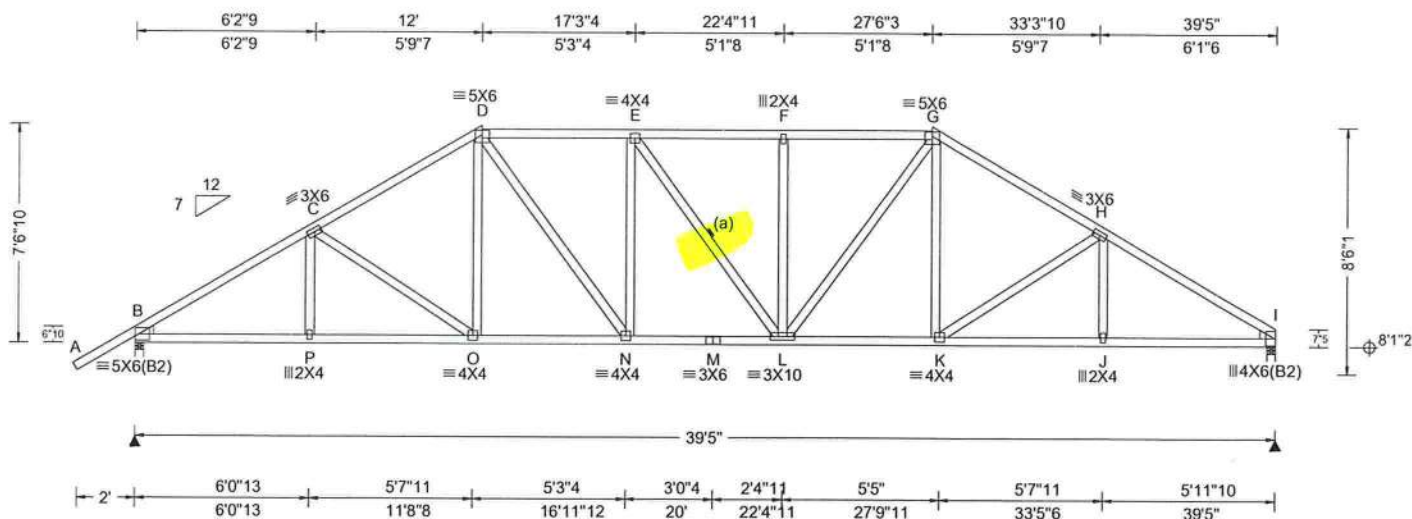
COA #0 248
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06/30/2022

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

SEQN: 115204 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: H12A	Cust: R 857 JRef: 1XGT8570002 T35 DrwNo: 181.22.0800.22800 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.94 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.159 F 999 360 VERT(CL): 0.299 F 999 240 HORZ(LL): 0.075 I HORZ(TL): 0.141 I Creep Factor: 2.0 Max TC CSI: 0.988 Max BC CSI: 0.992 Max Web CSI: 0.527 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1634 / / /955 /441 /266 I 1496 / / /831 /385 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 2.1 I Brg Wid = 3.5 Min Req = 1.9 Bearings B & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 1040 2425 F G 1178 2050 C D 1069 2109 G H 1075 2117 D E 1168 2038 H I 1057 2445 E F 1176 2048

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	38	2.07	12.00
TC	24	12.00	27.51
TC	40	27.51	39.42
BC	110	0.13	39.38

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0-248
Florida Certificate of Product Approval #FL1999
06/30/2022

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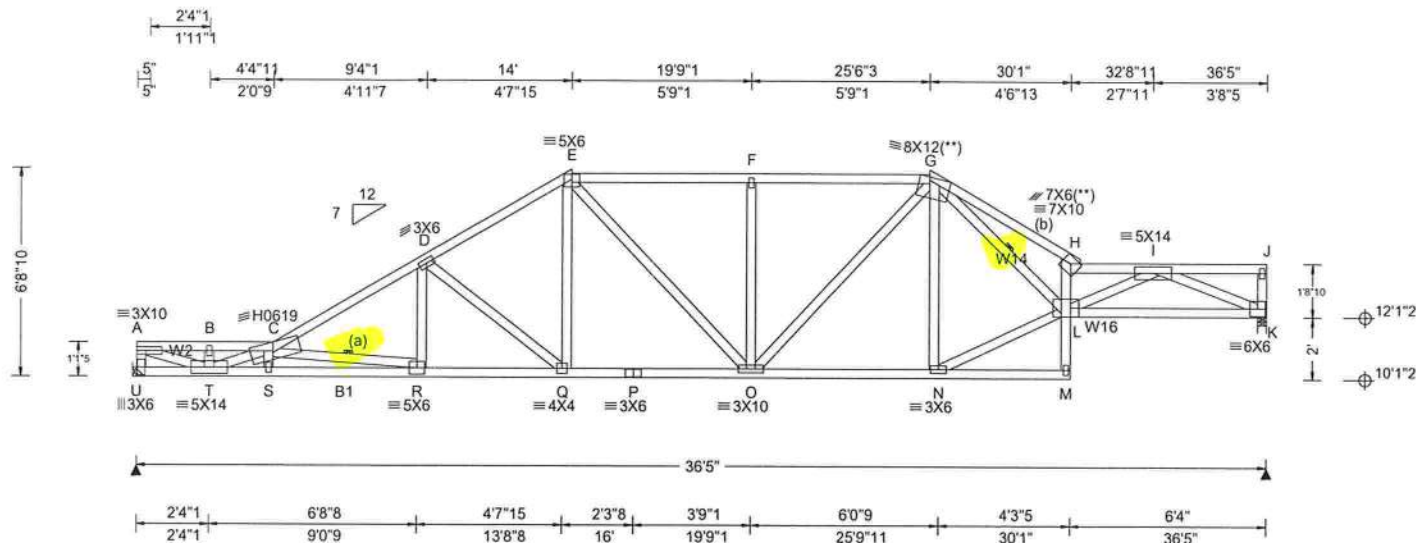
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.380 F 999 360 VERT(CL): 0.724 F 603 240 HORZ(LL): 0.077 K HORZ(TL): 0.147 K Creep Factor: 2.0 Max TC CSI: 0.995 Max BC CSI: 0.981 Max Web CSI: 0.963 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL U 1388 / / /736 /156 /195 K 1365 / / /648 /240 / Wind reactions based on MWFRS U Brg Wid = Min Req = K Brg Wid = 3.5 Bearing K Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 1688 3571 E F 1165 2033 B C 1688 3572 F G 1165 2033 C D 1452 3211 G H 2771 5402 D E 1168 2301 H I 2531 5003

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1; B1 2x4 SP SS Dense;
Webs: 2x4 SP #3; W2,W14,W16 2x4 SP #1;

Bracing
(b) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min,nails @ 6" oc.
(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min,nails @ 6" oc.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	0.00	4.39
TC	36	4.39	14.00
TC	24	14.00	25.51
TC	28	25.51	30.22
TC	24	30.22	36.42
BC	87	0.00	29.94
BC	76	30.11	36.42

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.
Plates sized for a minimum of 3.50 sq.in./piece.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/180.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.



COA #0 248
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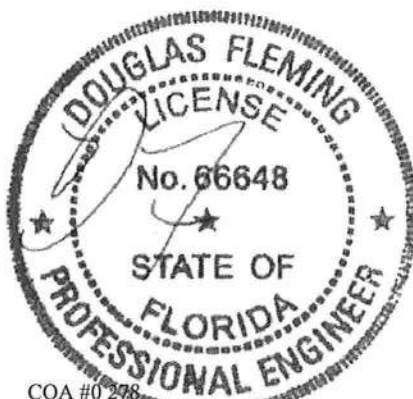
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115216	SPEC	Ply: 1	Job Number: B55557a	Cust: R 857 JRef: 1XGT8570002 T52
FROM: RNB		Qty: 1	Flander Res	DrwNo: 181.22.0759.25760
Page 2 of 2			Truss Label: S8	SSB / DF 06/30/2022

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.34". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.



COA #0278
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06/30/2022

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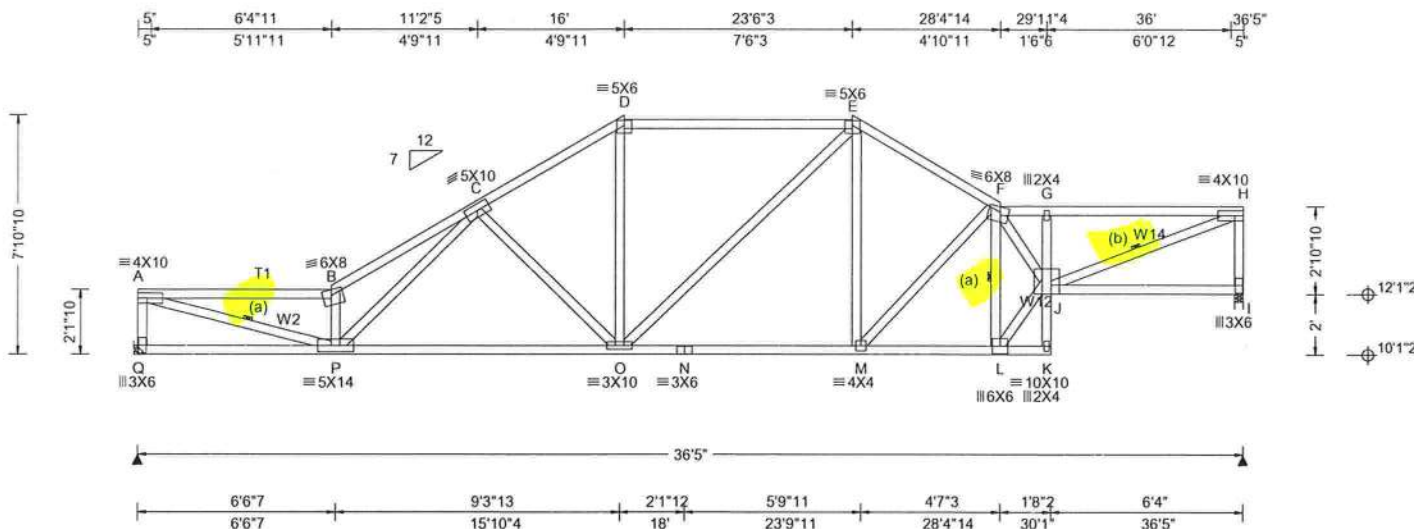
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115220 FROM: RNB	SPEC Qty: 1	Ply: 1 Job Number: B55557a Flander Res Truss Label: S7	Cust: R 857 JRef: 1XGT8570002 T12 DrwNo: 181.22.0759.27940 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.10 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.274 B 999 360 VERT(CL): 0.522 B 836 240 HORZ(LL): 0.055 A HORZ(TL): 0.104 A Creep Factor: 2.0 Max TC CSI: 1.000 Max BC CSI: 0.994 Max Web CSI: 0.980 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL Q 1388 / / / /715 /144 /325 I 1388 / / / /671 /258 / Wind reactions based on MWFRS Q Brg Wid = Min Req = I Brg Wid = 3.5 Bearing I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 1783 3976 E F 1000 1887 B C 2034 4466 F G 1666 3182 C D 1024 2036 G H 1677 3213 D E 948 1705

Lumber
Top chord: 2x4 SP #1; T1 2x4 SP SS Dense;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W2,W12,W14 2x4 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

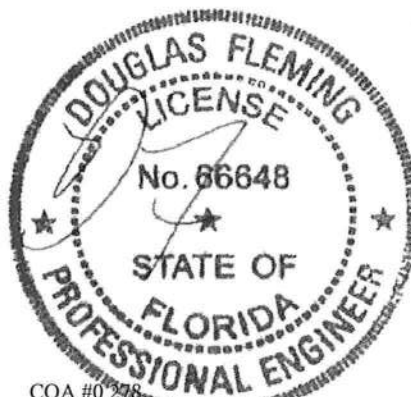
Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	0.00	6.39
TC	33	6.39	16.00
TC	24	16.00	23.51
TC	53	23.51	28.40
TC	24	28.40	36.42
BC	107	0.00	29.94
BC	78	29.94	36.42

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/180.
Wind loading based on both gable and hip roof types.
Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

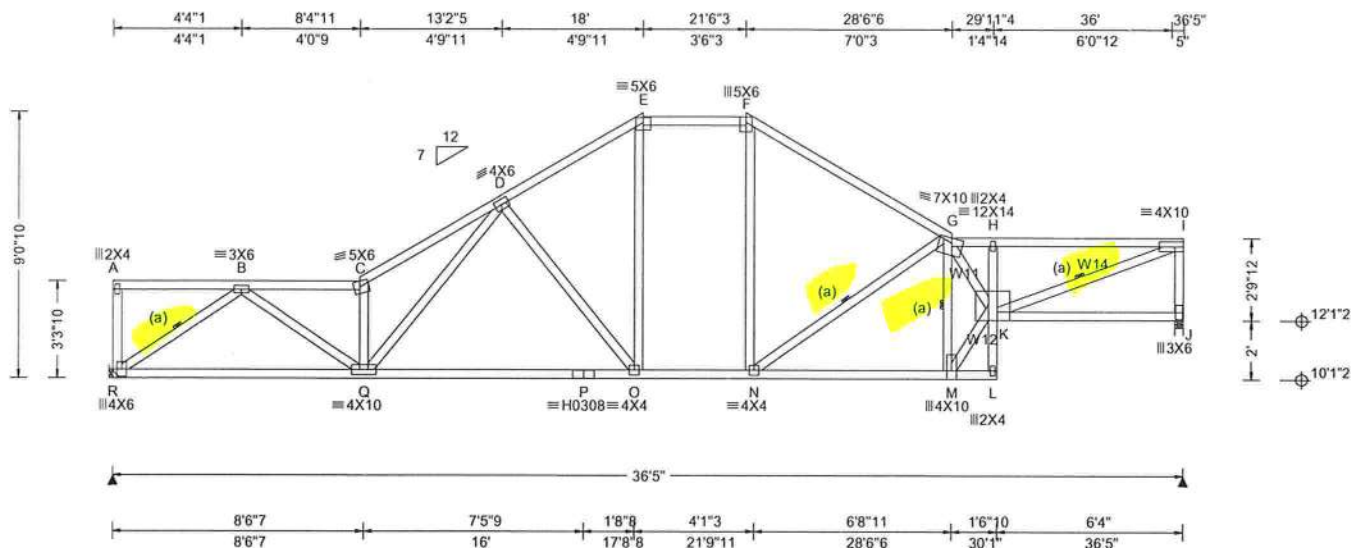


COA #0-218
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06/30/2022

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

SEQN: 115223 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: S6	Cust: R 857 JRef: 1XGT8570002 T28 DrwNo: 181.22.0759.29930 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.27 ft TCCL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.274 O 999 360 VERT(CL): 0.610 O 716 240 HORZ(LL): 0.073 A HORZ(TL): 0.185 E Creep Factor: 2.0 Max TC CSI: 0.982 Max BC CSI: 0.982 Max Web CSI: 0.960 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL R 1388 / / /683 /172 /357 J 1388 / / /671 /221 / Wind reactions based on MWFRS R Brg Wid = Min Req = J Brg Wid = 3.5 Bearing J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				B C 1295 3010 F G 848 1788 C D 1532 3448 G H 1605 3302 D E 881 1791 H I 1613 3340 E F 801 1452

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W11, W12, W14 2x4 SP #1;

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

Plating Notes
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	0.00	8.39
TC	38	8.39	18.00
TC	24	18.00	21.51
TC	49	21.51	28.53
TC	24	28.53	36.42
BC	115	0.00	29.94
BC	78	29.94	36.42

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/180.
Wind loading based on both gable and hip roof types.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.37". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R Q	1767 1176	O N	1452 757
Q P	1985 1060	N M	1907 977
P O	1985 1060		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R B	1104 2136	N G	403 616
B Q	1527 508	G M	1564 2905
C Q	934 1884	G K	2672 1512
Q D	1519 703	M K	3528 1728
D O	478 846	H K	419 386
O E	743 281	K I	3508 1741
F N	462 163	I J	753 1319



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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Glenview, IL 60025

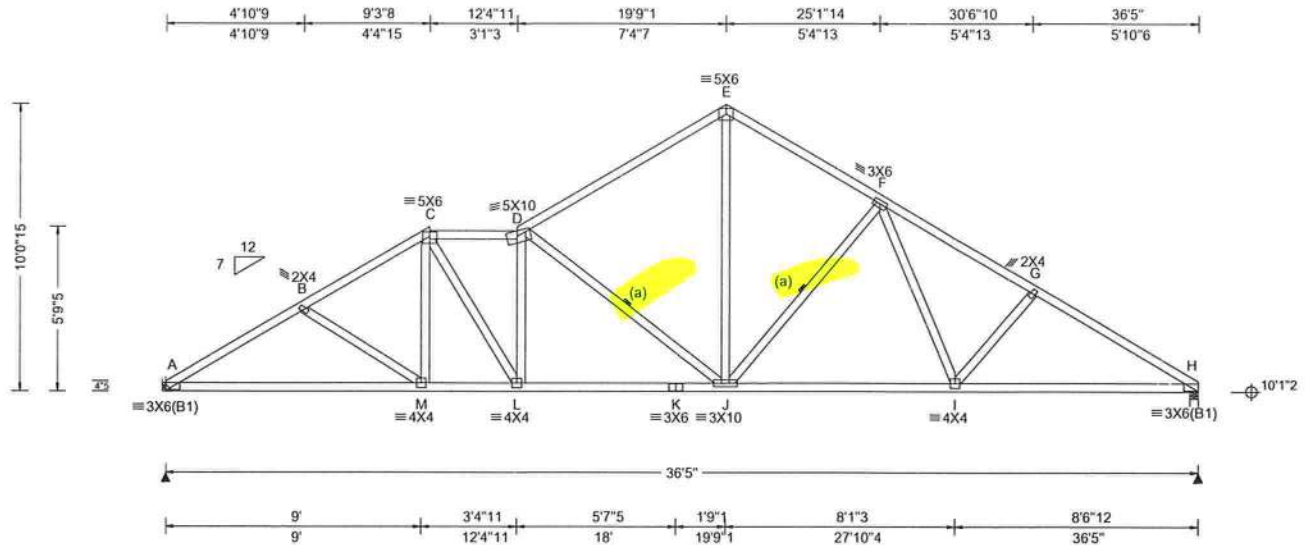


COA #0278
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06/30/2022

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

SEQN: 115231 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: S4	Cust: R 857 JRef: 1XGT8570002 T30 DrwNo: 181.22.0759.33953 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.31 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 D 999 360 VERT(CL): 0.237 D 999 240 HORZ(LL): 0.050 H HORZ(TL): 0.096 H Creep Factor: 2.0 Max TC CSI: 0.990 Max BC CSI: 0.561 Max Web CSI: 0.991 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL A 1387 / / /763 /84 /300 H 1388 / / /768 /83 / Wind reactions based on MWFRS A Brg Wid = Min Req = H Brg Wid = 3.5 Bearing H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 821 2340 E F 637 1572 B C 761 2115 F G 719 2125 C D 826 2102 G H 727 2319 D E 621 1611

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	48	0.00	9.29
TC	24	9.29	12.39
TC	53	12.39	19.76
TC	48	19.76	36.42
BC	120	0.13	36.27

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

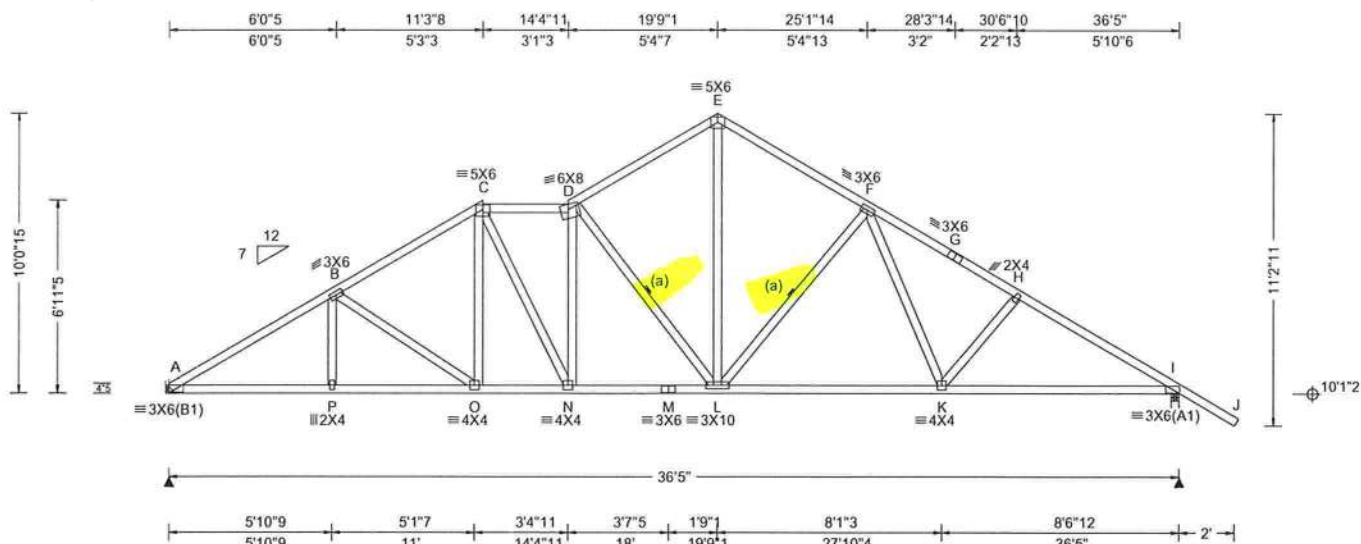
Wind loading based on both gable and hip roof types.



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

SEQN: 115234 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: S3	Cust: R 857 JRef: 1XGT8570002 T31 DrwNo: 181.22.0759.35833 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.121 D 999 360 VERT(CL): 0.228 D 999 240 HORZ(LL): 0.049 I HORZ(TL): 0.093 I Creep Factor: 2.0 Max TC CSI: 0.996 Max BC CSI: 0.544 Max Web CSI: 0.823 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL A 1383 / / / 768 / 81 / 348 I 1519 / / / 892 / 107 / Wind reactions based on MWFRS A Brg Wid = Min Req = I Brg Wid = 3.5 Bearing I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 759 2340 E F 637 1560 B C 738 1970 F G 696 2026 C D 742 1812 G H 681 2091 D E 635 1560 H I 702 2282

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	47	0.00	11.29
TC	24	11.29	14.39
TC	60	14.39	19.76
TC	46	19.76	38.49
BC	120	0.13	36.27

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A P	1955 515	M L	1812 408
P O	1953 516	L K	1605 310
O N	1627 352	K I	1897 461
N M	1812 408		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B O	197 380	E L	1188 449
C N	433 136	L F	264 506
D L	422 839	F K	434 53

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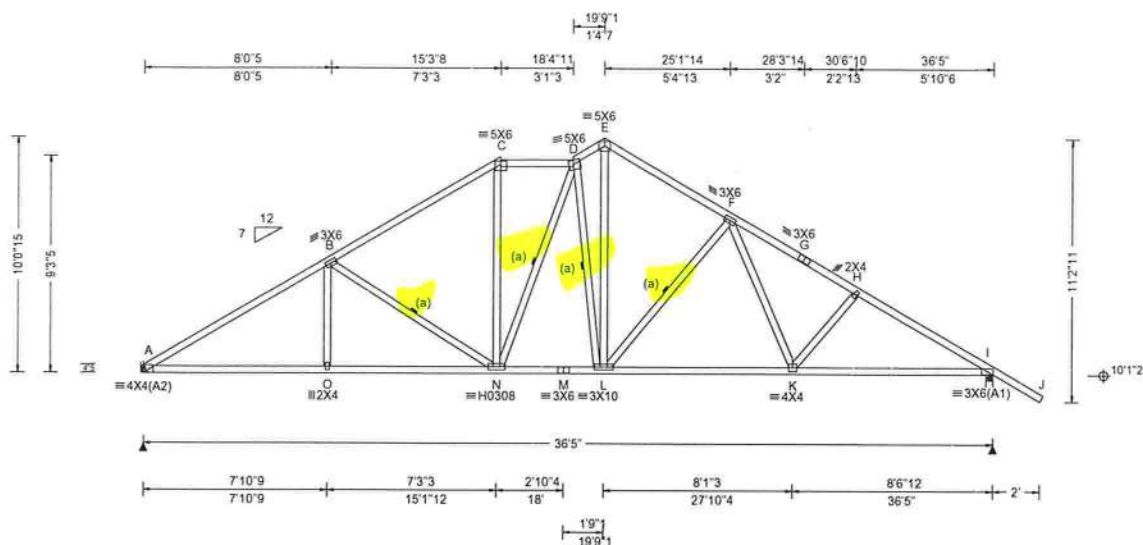
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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

SEQN: 115241 FROM: RNB	SPEC Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: S1	Cust: R 857 JRef: 1XGT8570002 T1 DrwNo: 181.22.0759.38730 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.116 D 999 360 VERT(CL): 0.219 D 999 240 HORZ(LL): 0.047 I HORZ(TL): 0.089 I Creep Factor: 2.0 Max TC CSI: 0.997 Max BC CSI: 0.641 Max Web CSI: 0.938 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity A 1383 / / / /775 /65 /348 I 1519 / / / /897 /95 / Wind reactions based on MWFRS A Brg Wid = Min Req = I Brg Wid = 3.5 Bearing I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
				A B 726 2279 E F 657 1559 B C 676 1709 F G 714 2027 C D 652 1378 G H 699 2092 D E 671 1453 H I 719 2282

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	44	0.00	15.29
TC	24	15.29	18.39
TC	19	18.39	19.76
TC	46	19.76	38.49
BC	120	0.13	36.27

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A O	1885 461	M L	1384 214
O N	1882 463	L K	1605 327
N M	1384 214	K I	1898 476

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B N	290 593	E L	1213 512
N C	475 72	L F	267 510
D L	380 697	F K	440 50

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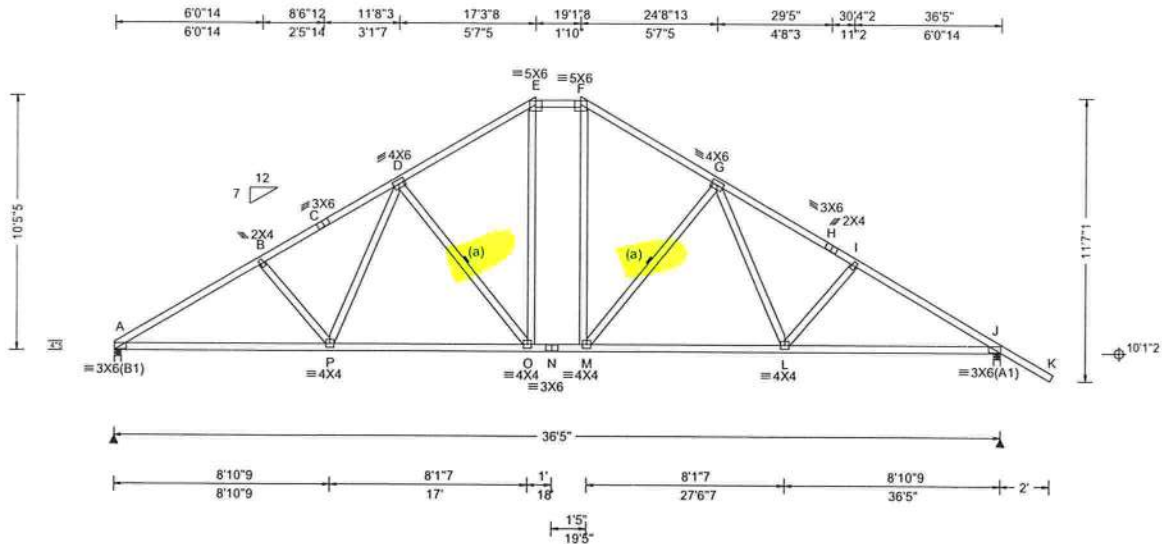
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115244 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: H17A	Cust: R 857 JRef: 1XGT8570002 T33 DrwNo: 181.22.0800.16807 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.102 O 999 360 VERT(CL): 0.192 O 999 240 HORZ(LL): 0.046 J HORZ(TL): 0.087 J Creep Factor: 2.0 Max TC CSI: 0.988 Max BC CSI: 0.730 Max Web CSI: 0.503 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL A 1383 / / / /777 /81 /359 J 1518 / / / /896 /102 / Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.7 J Brg Wid = 3.5 Min Req = 1.9 Bearings A & J Fcperp = 425psi. 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 #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	48	0.00	17.29
TC	24	17.29	19.13
TC	46	19.13	38.49
BC	120	0.15	36.27

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A P	1921 476	N M	1240 116
P O	1590 300	M L	1582 293
O N	1240 116	L J	1888 450

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
P D	464 79	F M	520 165
D O	289 541	M G	278 527
O E	520 165	G L	453 56

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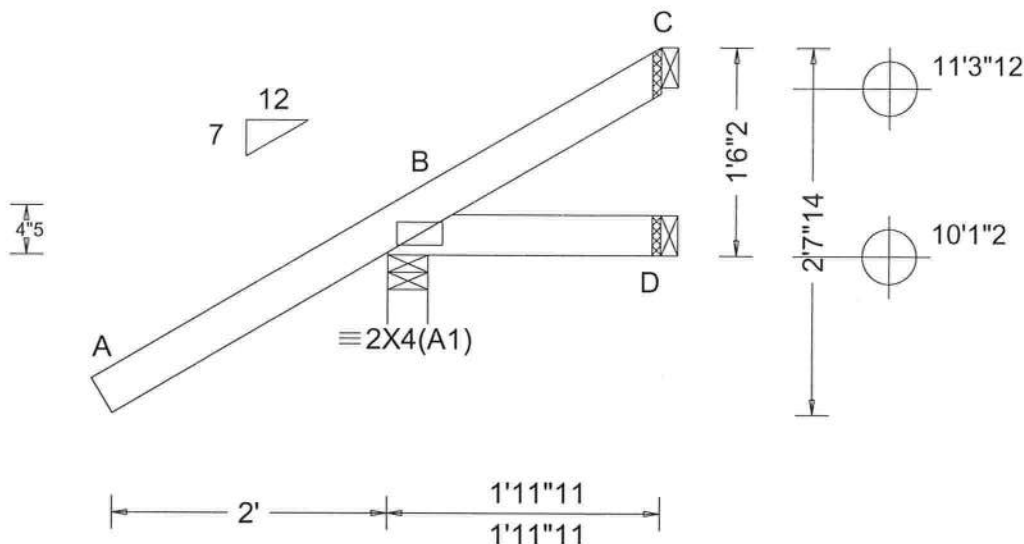
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115257 FROM: RNB	JACK Qty: 4	Ply: 1 Qty: 4	Job Number: B55557a Flander Res Truss Label: CJ2A	Cust: R 857 JRef: 1XGT8570002 T26 DrwNo: 181.22.0758.52863 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B HORZ(TL): 0.002 B Creep Factor: 2.0 Max TC CSI: 0.473 Max BC CSI: 0.114 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL B 289 / / / /248 /98 /87 D 25 / 6 / /33 /16 / C / 7 / /43 /42 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	56	2.07	1.97
BC	22	0.15	1.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0 248
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06/30/2022

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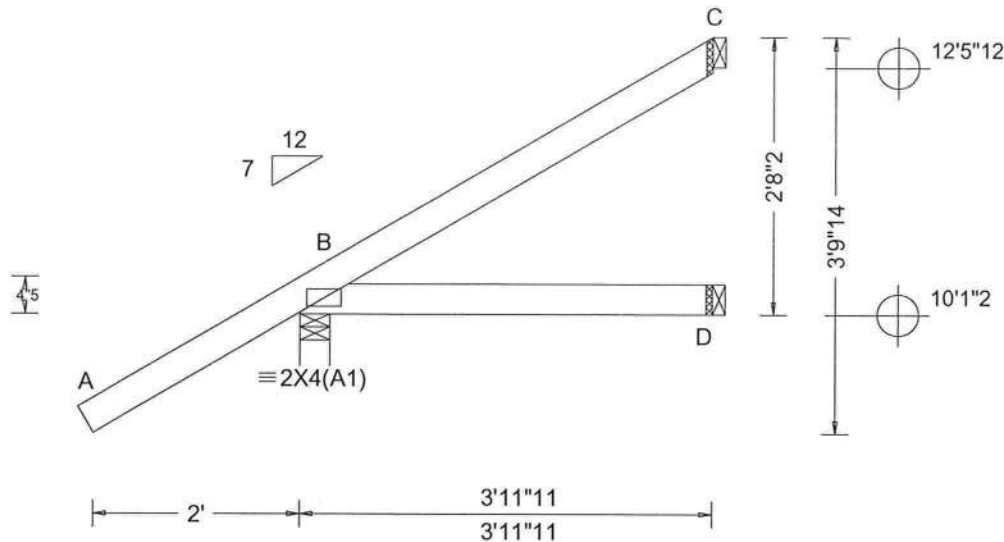
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115259 FROM: RNB	JACK Qty: 4	Ply: 1 Qty: 4	Job Number: B55557a Flander Res Truss Label: CJ4B	Cust: R 857 JRef: 1XGT8570002 T25 DrwNo: 181.22.0758.45960 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(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): 0.003 B Creep Factor: 2.0 Max TC CSI: 0.534 Max BC CSI: 0.096 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 322 / / / /249 /80 /135 D 67 / / / /47 / / C 76 / / / /43 /63 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	3.97
BC	46	0.15	3.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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
Florida Certificate of Product Approval #FL1999
06/30/2022

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

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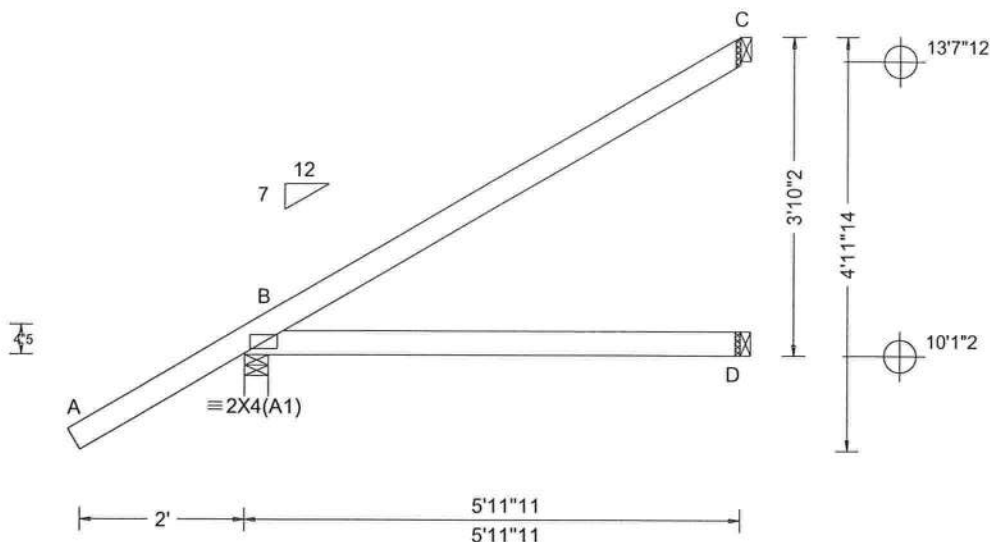
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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: 115261 FROM: RNB	JACK Ply: 1 Qty: 4	Job Number: B55557a Flander Res Truss Label: CJ6C	Cust: R 857 JRef: 1XGT8570002 T24 DrwNo: 181.22.0758.39097 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 B HORZ(TL): 0.009 B Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.249 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 385 / / / /281 /78 /183 D 106 / / / /64 / / C 136 / / / /86 /106 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	5.97
BC	70	0.15	5.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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
Florida Certificate of Product Approval #FL1999
06/30/2022

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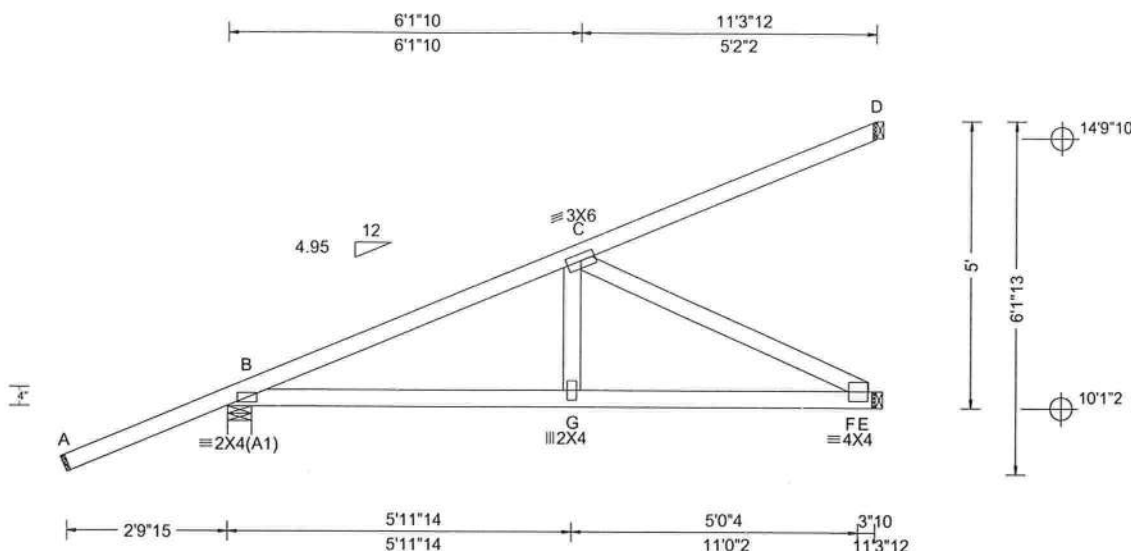
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115263 FROM: RNB	HIP_	Ply: 1 Qty: 2	Job Number: B55557a Flander Res Truss Label: HJ11A	Cust: R 857 JRef: 1XGT8570002 T34 DrwNo: 181.22.0759.57203 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.021 G 999 360 VERT(CL): 0.040 G 999 240 HORZ(LL): 0.006 F HORZ(TL): 0.012 F Creep Factor: 2.0 Max TC CSI: 0.845 Max BC CSI: 0.683 Max Web CSI: 0.518 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 417 / / / / /219 / E 422 / / / / /126 / D 107 / / / / /67 / Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Special Loads

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

TC: From	0 plf at	2.94 to	55 plf at	0.11
TC: From	2 plf at	0.11 to	2 plf at	11.31
BC: From	0 plf at	2.94 to	4 plf at	0.11
BC: From	2 plf at	0.11 to	2 plf at	11.31
TC:	3 lb Conc. Load at	2.85		
TC:	152 lb Conc. Load at	5.68		
TC:	272 lb Conc. Load at	8.51		
BC:	49 lb Conc. Load at	2.85		
BC:	133 lb Conc. Load at	5.68		
BC:	212 lb Conc. Load at	8.51		

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.88	11.31
BC	120	0.15	11.31

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0 278
Florida Certificate of Product Approval #FL1999
06/30/2022

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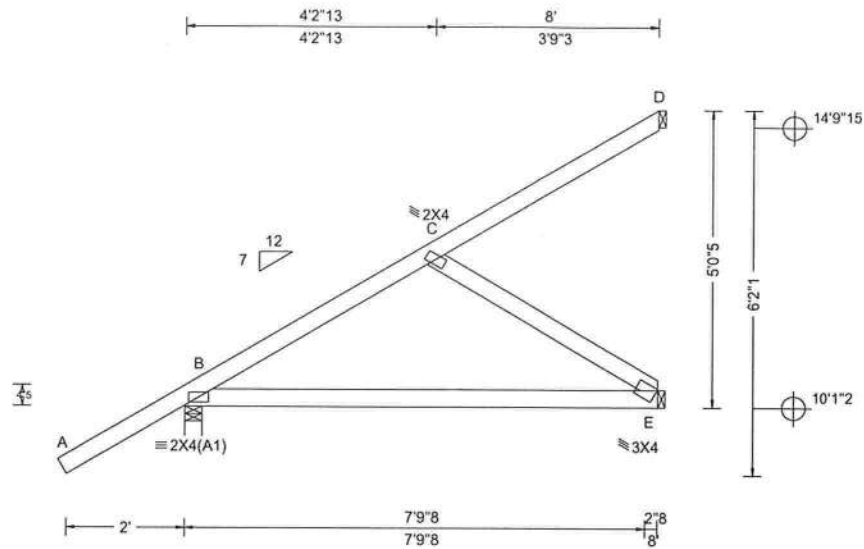
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115265 FROM: RNB	EJAC Qty: 2	Ply: 1 Job Number: B55557a Flander Res Truss Label: EJ8B	Cust: R 857 JRef: 1XGT8570002 T27 DrwNo: 181.22.0758.34813 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 B 999 360 VERT(CL): 0.018 B 999 240 HORZ(LL): 0.003 B HORZ(TL): 0.011 B Creep Factor: 2.0 Max TC CSI: 0.377 Max BC CSI: 0.398 Max Web CSI: 0.106 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 452 / / / /318 /79 /231 E 198 / / / /148 /51 / D 88 / / / /59 /72 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	8.00
BC	75	0.15	7.86

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0218
Florida Certificate of Product Approval #FL1999
06/30/2022

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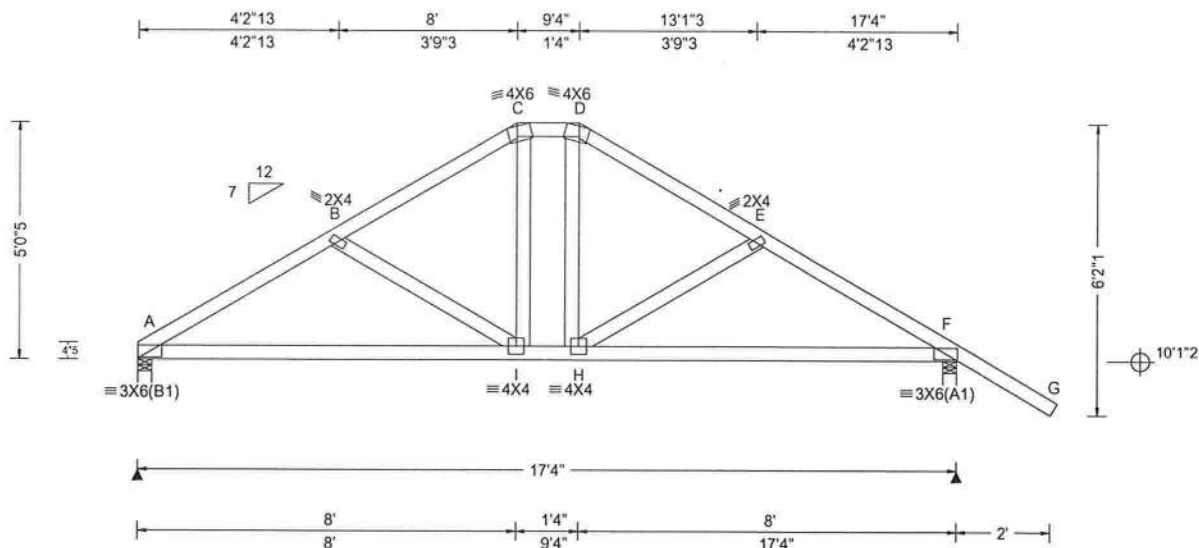
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115267 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: HG8C	Cust: R 857 JRef: 1XGT8570002 T23 DrwNo: 181.22.0800.00887 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.062 I 999 360 VERT(CL): 0.115 I 999 240 HORZ(LL): 0.029 F HORZ(TL): 0.053 F Creep Factor: 2.0 Max TC CSI: 0.975 Max BC CSI: 0.988 Max Web CSI: 0.306 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity A 1440 / / / / 473 / F 1584 / / / / 547 / Wind reactions based on MWFRS A Brg Wid = 3.5 Min Req = 1.8 F Brg Wid = 3.5 Min Req = 2.0 Bearings A & F Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 879 2448 D E 773 2247 B C 776 2254 E F 865 2421 C D 645 1898

Lumber

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

Special Loads

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

TC: From 56 plf at 0.00 to 56 plf at 8.00	TC: From 28 plf at 8.00 to 28 plf at 9.33
TC: From 56 plf at 9.33 to 56 plf at 19.48	BC: From 20 plf at 0.00 to 20 plf at 8.03
BC: From 10 plf at 8.03 to 10 plf at 9.30	BC: From 20 plf at 9.30 to 20 plf at 17.33
BC: From 20 plf at 17.33 to 5 plf at 19.48	TC: 194 lb Conc. Load at 8.03, 9.30
BC: 620 lb Conc. Load at 8.03, 9.30	

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

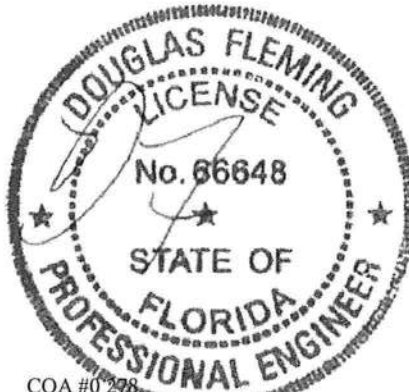
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	44	0.00	8.00
TC	24	8.00	9.33
TC	41	9.33	19.41
BC	84	0.15	17.19

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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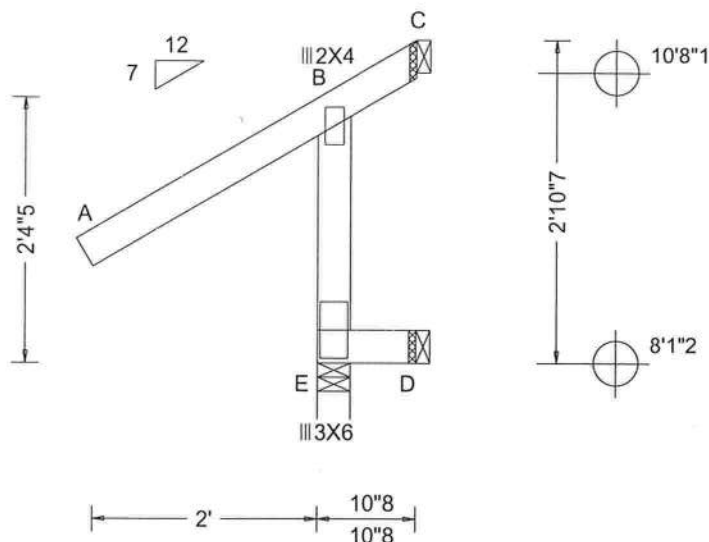
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115269 FROM: RNB	JACK Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: CJ1	Cust: R 857 JRef: 1XGT8570002 T38 DrwNo: 181.22.0758.56267 SSB / DF 06/30/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 7.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 B HORZ(TL): 0.001 B Creep Factor: 2.0 Max TC CSI: 0.356 Max BC CSI: 0.005 Max Web CSI: 0.272 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL E 309 / / /397 /236 / D 18 / / /9 / /38 C / 124 / /166 /249 /125 Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing E Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	41	2.07	0.88
BC	11	0.00	0.88

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

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

Wind loading based on both gable and hip roof types.



COA #0 218

Florida Certificate of Product Approval #FL1999
06/30/2022

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp.

B E 622 389

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

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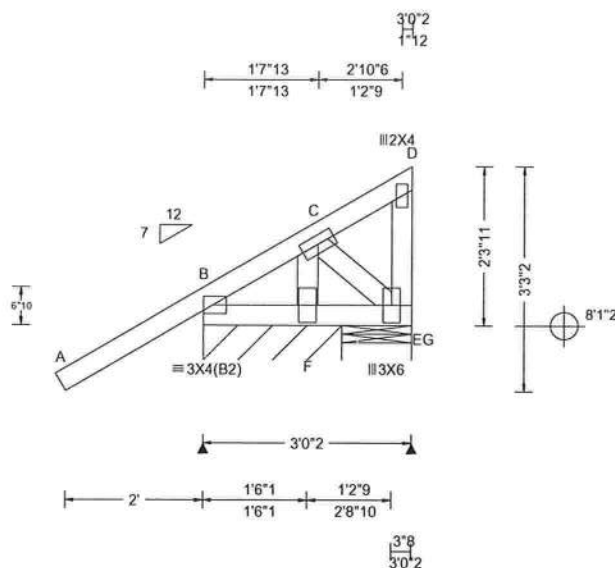
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115272 FROM: RNB	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: GE7	Cust: R 857 JRef: 1XGT8570002 T22 DrwNo: 181.22.0758.29250 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.011 B 999 360 VERT(CL): 0.009 B 999 240 HORZ(LL): 0.004 D HORZ(TL): 0.005 D Creep Factor: 2.0 Max TC CSI: 0.716 Max BC CSI: 0.135 Max Web CSI: 0.366 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B* 373 / / /291 /421 /181 G /284 / /305 /235 / Wind reactions based on MWFRS B Brg Wid = 24.0 Min Req = G Brg Wid = 12.1 Min Req = 1.5 Bearings B & F Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B C 526 1052

Lumber

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

Plating Notes

All plates are 3X6 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	71	2.07	3.01
BC	36	0.00	3.01

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 14.0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of 284# MAX. from a non wind load case requires uplift connection. See Maximum Reactions.

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B F	1305 490	F E	897 410

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
C E	527 1069

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.
F C	1230 673



COA #0248
Florida Certificate of Product Approval #FL1999
06/30/2022

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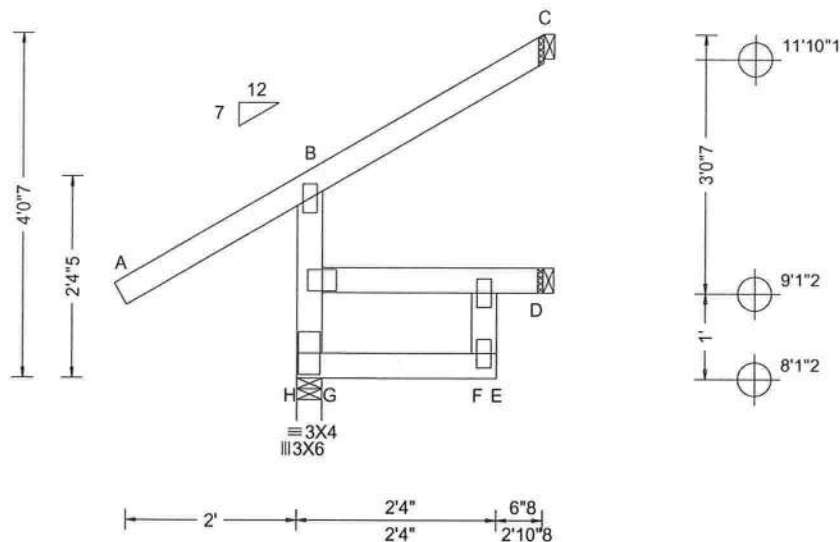
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115274 FROM: RNB	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: CJ3	Cust: R 857 JRef: 1XGT8570002 T37 DrwNo: 181.22.0758.51063 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 E 999 360 VERT(CL): 0.004 E 999 240 HORZ(LL): 0.002 H HORZ(TL): 0.003 H Creep Factor: 2.0 Max TC CSI: 0.458 Max BC CSI: 0.043 Max Web CSI: 0.227 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL H 306 / / / /355 /182 / D 55 / / /26 /31 / /77 C 7 / 21 /26 /75 /136 /173 Wind reactions based on MWFRS H Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	69	2.07	2.88
BC	28	0.00	2.33
BC	34	0.07	2.88

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

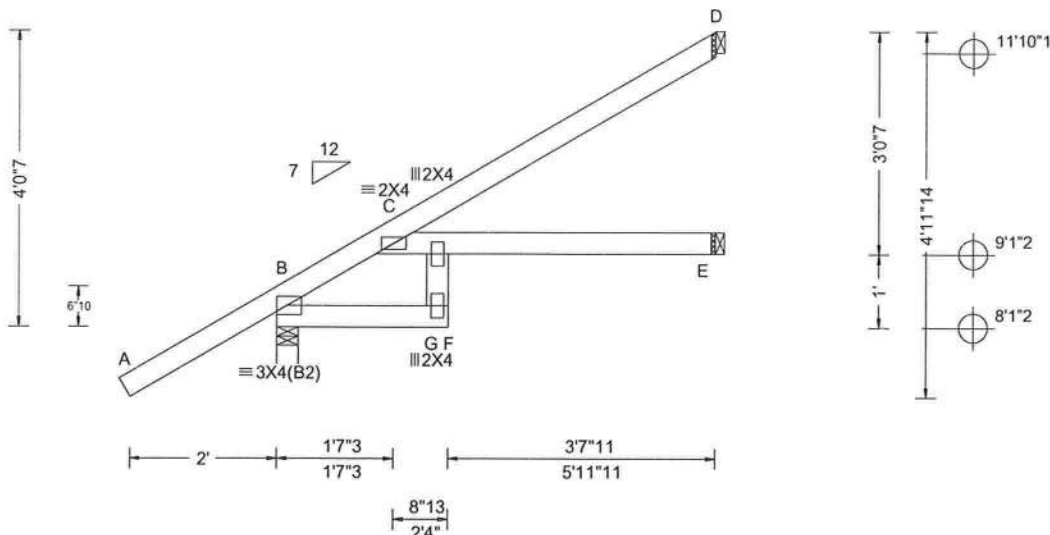
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/180.
Wind loading based on both gable and hip roof types.



COA #0 248
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06/30/2022

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Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.060 F 999 360 VERT(CL): 0.093 F 760 240 HORZ(LL): 0.034 C HORZ(TL): 0.061 C Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.220 Max Web CSI: 0.146 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 380 / / /275 /73 /183 E 98 / / /58 / / D 142 / / /92 /105 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	5.97
BC	26	0.13	2.33
BC	53	1.52	5.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0298
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06/30/2022

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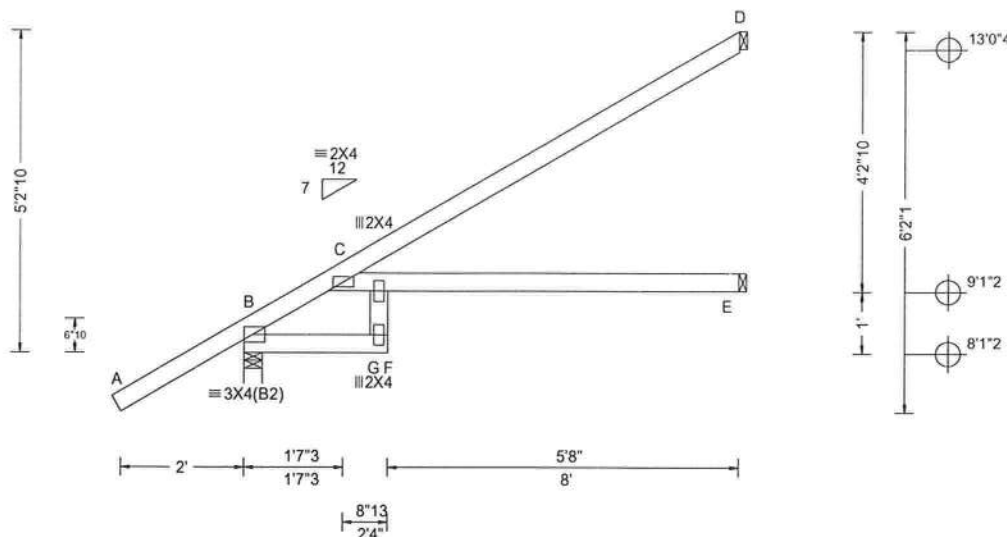
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115278 FROM: RNB	EJAC Qty: 6	Ply: 1 Job Number: B55557a Flander Res Truss Label: EJ8	Cust: R 857 JRef: 1XGT8570002 T48 DrwNo: 181.22.0758.37680 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.176 F 542 360 VERT(CL): 0.320 F 297 240 HORZ(LL): 0.095 C HORZ(TL): 0.174 C Creep Factor: 2.0 Max TC CSI: 0.763 Max BC CSI: 0.434 Max Web CSI: 0.283 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 451 / / / /316 /76 /231 E 138 / / / /78 / / D 197 / / / /131 /146 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	8.00
BC	26	0.13	2.33
BC	75	1.52	8.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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06/30/2022

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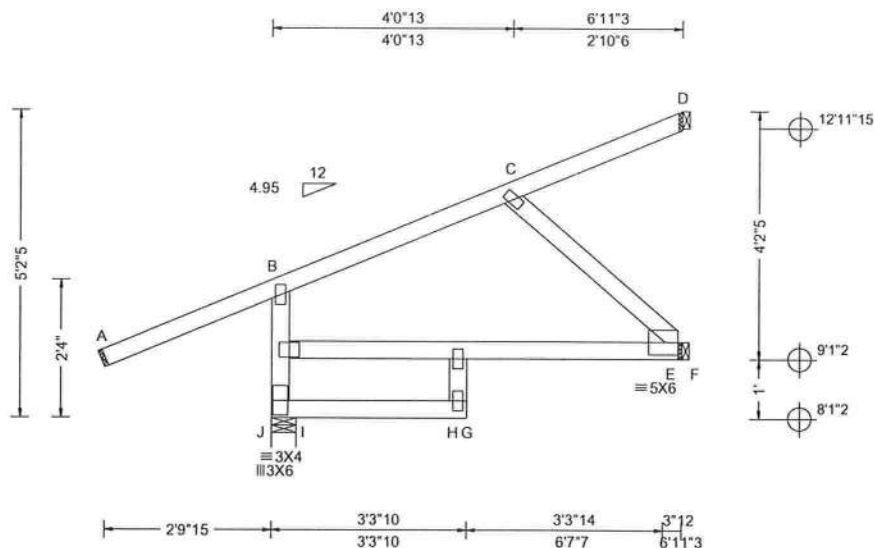
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115281 FROM: RNB	HIP_	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: HJ7	Cust: R 857 JRef: 1XGT8570002 T50 DrwNo: 181.22.0759.44183 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 H 669 360 VERT(CL): 0.191 G 434 240 HORZ(LL): 0.123 D HORZ(TL): 0.126 D Creep Factor: 2.0 Max TC CSI: 0.335 Max BC CSI: 0.565 Max Web CSI: 0.486 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity Loc R+ / R / Rh / Rw / U / RL J 337 / / / / /354 /98 E 183 / / / / /180 / D 22 / / / / /4 / Wind reactions based on MWFRS J Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

Lumber

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

Special Loads

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

TC: From	0 plf at	2.94 to	55 plf at	0.11
TC: From	2 plf at	0.11 to	2 plf at	6.93
BC: From	0 plf at	2.94 to	4 plf at	0.11
BC: From	2 plf at	0.11 to	2 plf at	6.93
TC:	35 lb Conc. Load at	1.30		
TC:	149 lb Conc. Load at	4.13		
BC:	90 lb Conc. Load at	1.30		
BC:	154 lb Conc. Load at	4.13		

Plating Notes

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.88	6.93
BC	40	0.00	3.30
BC	83	0.00	6.93

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

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

Wind loading based on both gable and hip roof types.



COA #0 248

Florida Certificate of Product Approval #FL1999

06/30/2022

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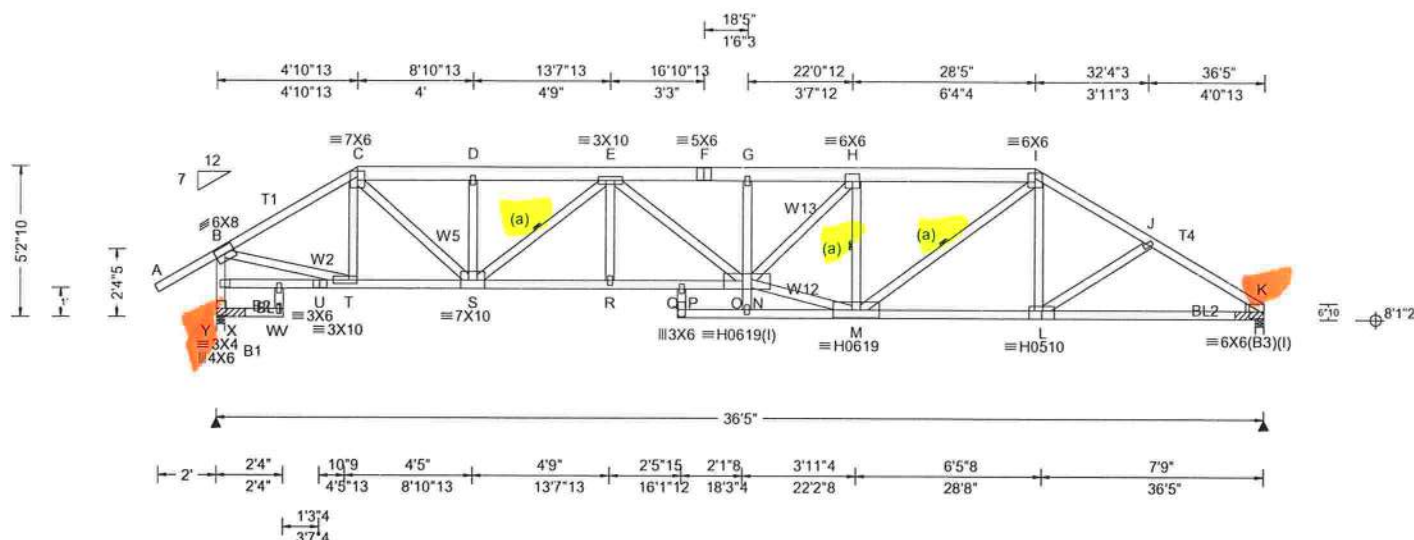
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.64 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.481 G 906 360 VERT(CL): 0.890 G 490 240 HORZ(LL): 0.198 K HORZ(TL): 0.368 K Creep Factor: 2.0 Max TC CSI: 1.000 Max BC CSI: 0.973 Max Web CSI: 0.968 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL Y 3559 / / / / /1399 /127 K 3240 / / / / /1192 / Wind reactions based on MWFRS Y Brg Wid = 3.5 Min Req = K Brg Wid = 3.5 Min Req = Bearings Y & K Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x6 SP #1; T1 2x4 SP #1;
T4 2x4 SP SS Dense;
Bot chord: 2x4 SP SS Dense; B1,B2 2x4 SP #1;
Webs: 2x4 SP #3; W2,W5,W13 2x4 SP #1;
W12 2x4 SP SS Dense;
Rt Wedge: 2x4 SP #3;

Bracing

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

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 2.15 to 56 plf at 4.90
TC: From 28 plf at 4.90 to 28 plf at 28.42
TC: From 56 plf at 28.42 to 56 plf at 36.42
BC: From 5 plf at 2.15 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 3.60
BC: From 10 plf at 3.60 to 10 plf at 28.67
BC: From 20 plf at 28.67 to 20 plf at 36.42
TC: 220 lb Conc. Load at 4.93,28.39
TC: 197 lb Conc. Load at 6.97, 8.97,10.97,12.97
14.97
TC: 95 lb Conc. Load at 16.66,18.35,20.35,22.35
24.35,26.35
BC: 321 lb Conc. Load at 4.93
BC: 138 lb Conc. Load at 6.97, 8.97,10.97,12.97
14.97
BC: 196 lb Conc. Load at 16.66,18.35,20.35,22.35
24.35,26.35
BC: 628 lb Conc. Load at 28.39

Plating Notes

All plates are 2X4 except as noted.
(I) plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
Plates sized for a minimum of 3.50 sq.in./piece.

Wind

Wind loads and reactions based on MWFRS.
Left end vertical exposed to wind pressure. Deflection meets L/180.
Wind loading based on both gable and hip roof types.



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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
T S	4084 1670	P N	8166 3161
S R	8228 3204	M L	4793 1812
R P	8228 3204	L K	4687 1779

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B X	1427 3519	E N	1109 402
B T	4108 1527	N H	3213 1245
Y X	1418 3527	N M	6869 2664
T C	234 512	H M	1185 2711
C S	3479 1274	M I	2370 961
D S	417 620	I L	709 63
S E	796 2146		

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Glenview, IL 60025

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	29	2.07	4.90
TC	24	4.90	28.42
TC	19	28.42	36.35
BC	28	0.00	2.33
BC	43	0.00	18.42
BC	56	16.00	36.28

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Bearing Block(s)

Brg blocks:0.128"x3", min. nails

brg	x loc	#blocks	length/blk	#nails/blk	wall plate
1	0.000'	1	12"	7	SPF Standard
2	36.125'	1	12"	4	SPF Standard

Brg block to be same size and species as chord.

Refer to drawing CNNAILSP1014 for more information.



COA #0298
Florida Certificate of Product Approval #FL1999
06/30/2022

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

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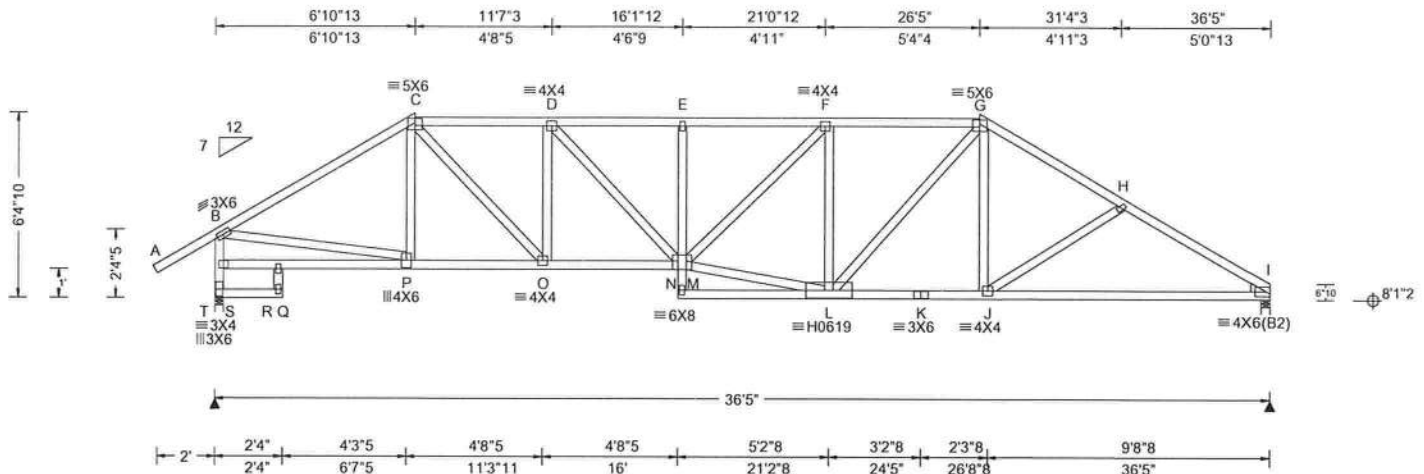
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SEQN: 115314 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: H7A	Cust: R 857 JRef: 1XGT8570002 T14 DrwNo: 181.22.0800.15300 SSB / DF 06/30/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.158 E 999 360 VERT(CL): 0.297 E 999 240 HORZ(LL): 0.065 I HORZ(TL): 0.122 I Creep Factor: 2.0 Max TC CSI: 0.984 Max BC CSI: 0.987 Max Web CSI: 0.900 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL T 1515 / / / /829 /411 /379 I 1387 / / / /768 /362 / Wind reactions based on MWFRS T Brg Wid = 3.5 Min Req = 1.9 I Brg Wid = 3.5 Min Req = 1.7 Bearings T & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 1066 1896 F G 1322 2073 C D 1380 2177 G H 1114 2020 D E 1630 2591 H I 1161 2244 E F 1625 2582

Lumber

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

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	48	2.07	6.90
TC	24	6.90	26.42
TC	44	26.42	36.35
BC	28	0.00	2.33
BC	109	0.00	16.15
BC	106	16.15	36.28

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

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

Wind loading based on both gable and hip roof types.



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S R	543 372	L K	1688 780
R P	560 401	K J	1688 780
P O	1568 852	J I	1859 917
O M	2217 1235		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B S	848 1452	D M	549 333
B P	1517 812	M F	687 431
T S	827 1481	M L	2087 1116
C O	933 623	F L	657 798
O D	554 672	L G	585 485

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

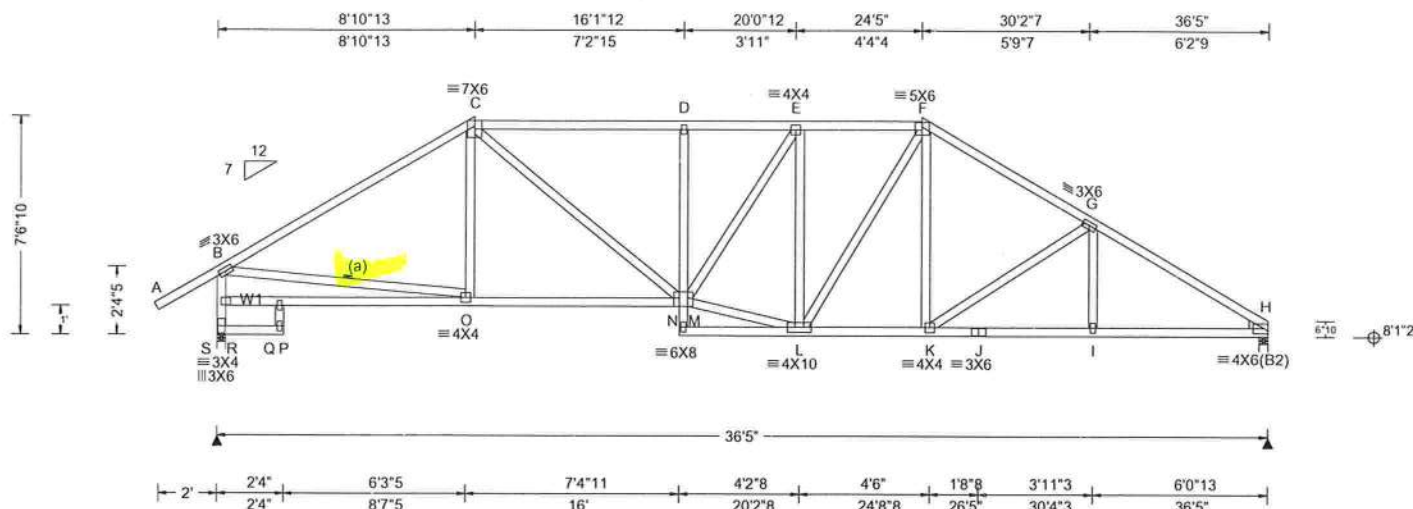
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.129 D 999 360 VERT(CL): 0.242 D 999 240 HORZ(LL): 0.056 H HORZ(TL): 0.106 H Creep Factor: 2.0 Max TC CSI: 0.999 Max BC CSI: 0.985 Max Web CSI: 0.835 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity S 1515 / / /840 /406 /414 H 1387 / / /780 /359 / Wind reactions based on MWFRS S Brg Wid = 3.5 Min Req = 1.9 H Brg Wid = 3.5 Min Req = 1.7 Bearings S & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 985 1925 E F 1084 1748 C D 1285 2098 F G 1025 1900 D E 1281 2091 G H 1013 2250

Lumber

Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3; W1 2x4 SP #1;
Rt Wedge: 2x4 SP #3;

Bracing

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

Plating Notes

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	8.90	24.42
TC	44	24.42	36.35
BC	28	0.00	2.33
BC	107	0.00	16.15
BC	115	16.15	36.28

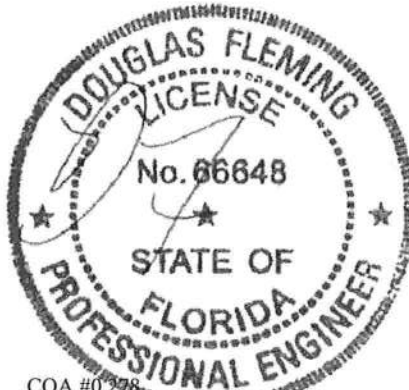
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

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

Wind loading based on both gable and hip roof types.



COA #0248
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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R Q	683 451	K J	1856 787
Q O	682 485	J I	1856 787
O M	1568 737	I H	1857 785
L K	1566 650		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B R	792 1438	D M	400 335
B O	1443 719	M E	601 372
S R	764 1472	M L	1801 833
C M	700 482	E L	550 716

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

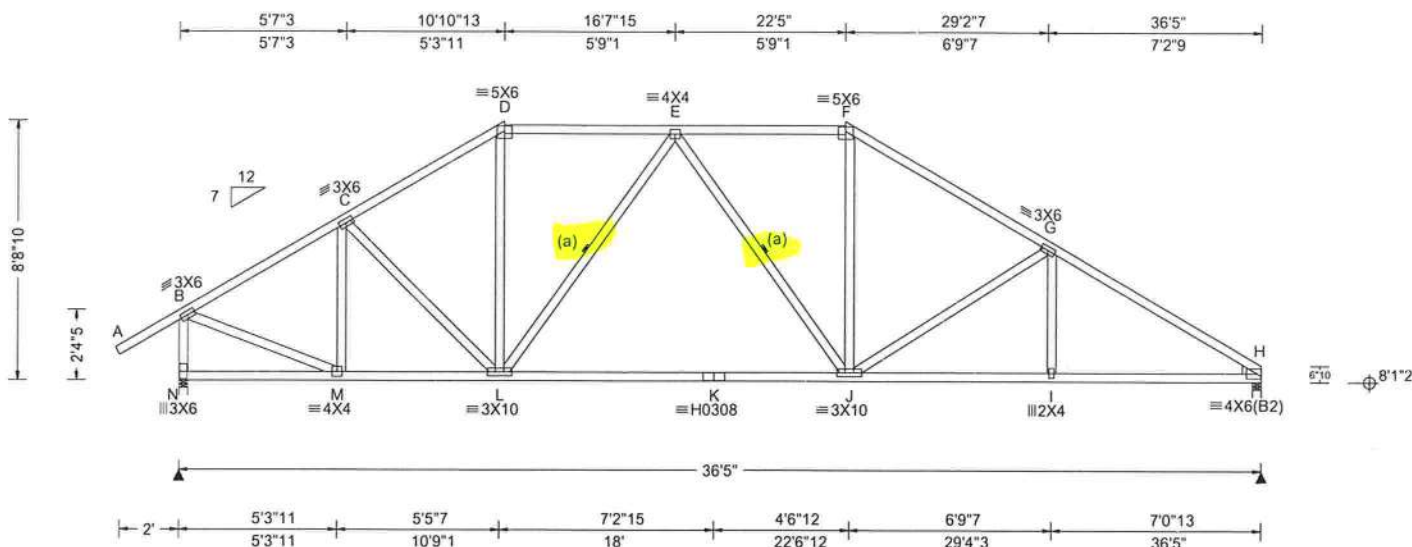
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7 16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	GravityNon Gravity
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.095 J 999 360	Loc R+ /R / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.180 J 999 240	N 1515 / / /852 /197 /379
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.045 H	H 1387 / / /789 /172 /
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.085 H	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	N Brg Wid = 3.5 Min Req = 1.9
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.999	H Brg Wid = 3.5 Min Req = 1.7
Load Duration: 1.25	BCDL: 6.0 psf	TPI Std: 2014	Max BC CSI: 0.819	Bearings N & H Fcperp = 425psi.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.532	Members not listed have forces less than 375#
	C&C Dist a: 3.64 ft	FT/RT:20(0)/0(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.
	GCp: 0.18	WAVE, HS	VIEW Ver: 21.01.03A.0805.15	B C 707 1493 E F 839 1464
	Wind Duration: 1.60			

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	58	2.07	10.90
TC	24	10.90	22.42
TC	44	22.42	36.35
BC	120	0.00	36.28

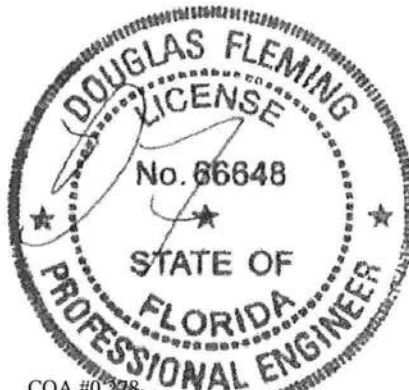
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

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

Wind loading based on both gable and hip roof types.



COA #0 248
 Florida Certificate of Product Approval #FL1999
 06/30/2022

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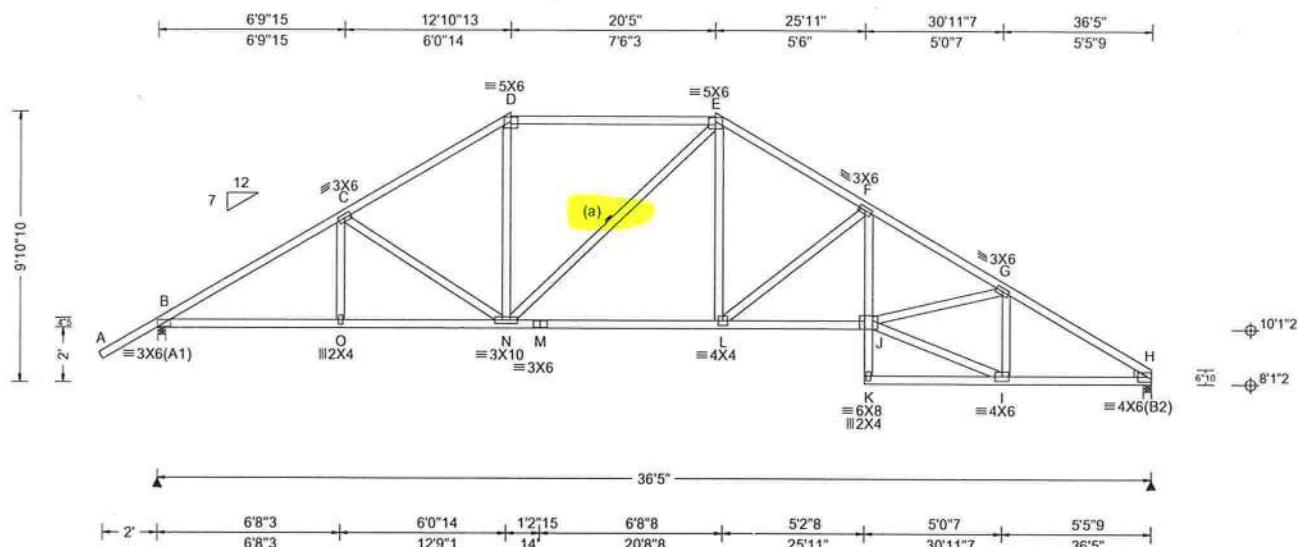
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 Glenview, IL 60025

SEQN: 115323 FROM: RNB	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: H13A	Cust: R 857 JRef: 1XGT8570002 T5 DrwNo: 181.22.0800.21330 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.157 J 999 360 VERT(CL): 0.296 J 999 240 HORZ(LL): 0.084 H HORZ(TL): 0.159 H Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.682 Max Web CSI: 0.926 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1521 / / /882 /111 /375 H 1380 / / /807 /144 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.9 H Brg Wid = 3.5 Min Req = 1.7 Bearings B & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 846 2277 E F 901 2021 C D 840 1869 F G 1129 2928 D E 796 1542 G H 804 2245

Lumber

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

Bracing

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	45	2.07	12.90
TC	24	12.90	20.42
TC	42	20.42	36.35
BC	120	0.15	26.04
BC	120	26.06	36.28

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0 248
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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B O	1884 630	M L	1666 527
O N	1882 631	L J	2474 851
N M	1666 527	I H	1856 615

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C N	181 397	F J	816 228
N D	545 62	J I	1982 697
E L	710 143	J G	651 170
L F	410 1005	I G	375 753

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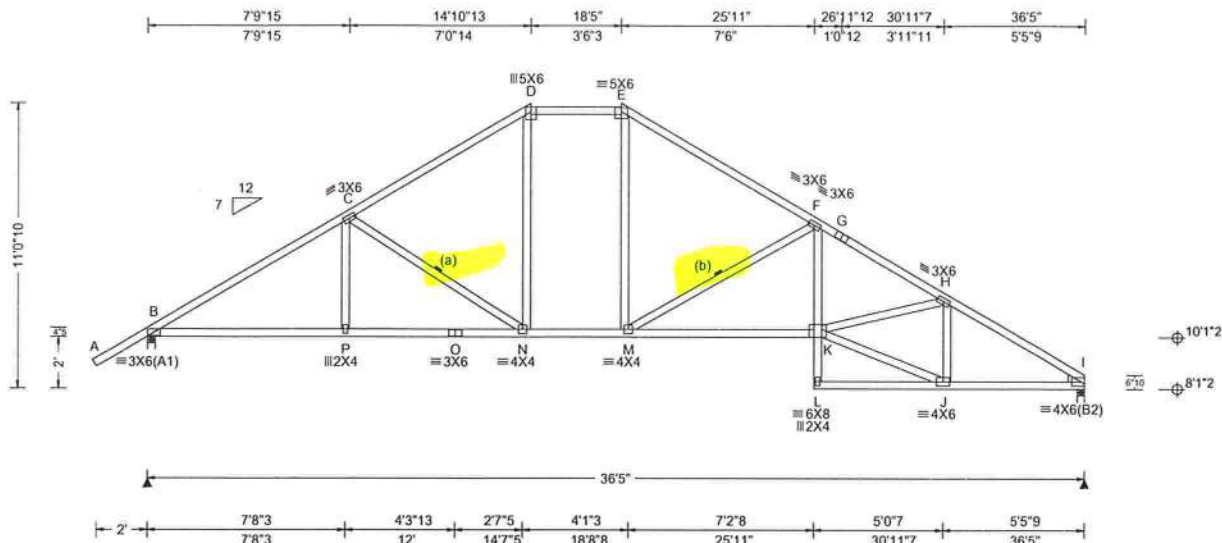
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ANTW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115328 FROM: RNB	HIPS Qty: 2	Ply: 1	Job Number: B5557a Flander Res Truss Label: H15A	Cust: R 857 JRef: 1XGT8570002 T6 DrwNo: 181.22.0800.19873 SSB / DF 06/30/2022
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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: 7.00		Speed: 140 mph		Pf: NA Ce: NA		VERT(LL): 0.238 M 999 360		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.447 M 971 240		B	1521	/	/	/883	/104	/411	
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.094 I		I	1380	/	/	/808	/107	/	
Des Ld: 37.00		EXP: C Kzt: NA				HORZ(TL): 0.178 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 = 1.9							
Soffit: 2.00		TCDL: 4.2 psf		FBC 7th Ed. 2020 Res.		Max TC CSI: 0.978		I Brg Wid = 3.5 Min Req = 1.7							
Load Duration: 1.25		BCDL: 6.0 psf		TPI Std: 2014		Max BC CSI: 0.667		Bearings B & I Fcperp = 425psi.							
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes		Max Web CSI: 0.924		Members not listed have forces less than 375#							
		C&C Dist a: 3.64 ft		FT/RT:20(0)/0(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: 21.01.03A.0805.15		B	C	719	2245	F	G	990	2843
		Wind Duration: 1.60													

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

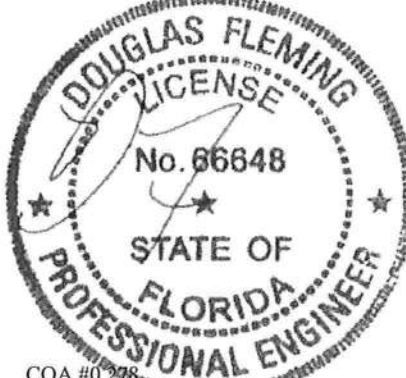
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	45	2.07	14.90
TC	24	14.90	18.42
TC	39	18.42	36.35
BC	120	0.15	26.04
BC	120	26.06	36.28

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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
Florida Certificate of Product Approval #FL1999
06/30/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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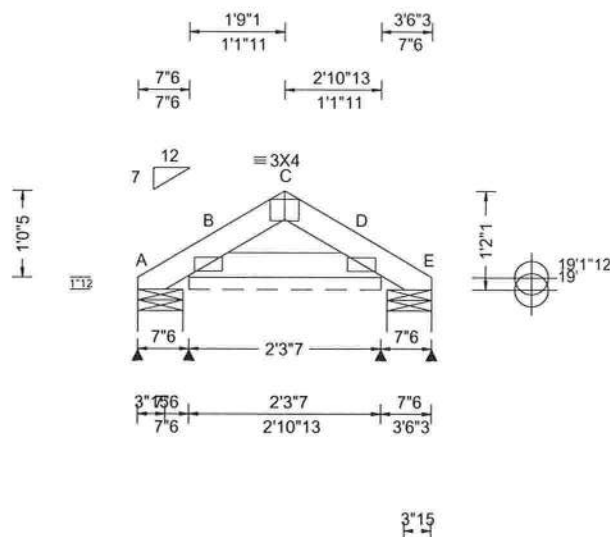
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



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

SEQN: 115330 FROM: RNB	GABL Qty: 1	Job Number: B55557a Flander Res Truss Label: PB1	Cust: R 857 JRef: 1XGT8570002 T21 DrwNo: 181.22.0759.42940 SSB / DF 06/30/2022
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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: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.000 C 999 360	Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 C 999 240	A 23	/	/	/	/21	/21	/43
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 D	B* 112	/	/	/	/59	/70	/
	EXP: C Kzt: NA		HORZ(TL): 0.000 D	E 23	/	/	/	/13	/21	/
Des Ld: 37.00	Mean Height: 19.66 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Max TC CSI: 0.011	A	Brg Wid = 6.5		Min Req = 1.5			
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max BC CSI: 0.015	B	Brg Wid = 27.4		Min Req =			
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.000	E	Brg Wid = 6.5		Min Req = 1.5			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case		Bearings A, B, & D are a rigid surface.						
	Loc. from endwall: not in 12.11 ft	FT/RT:20(0)/0(0)		Members not listed have forces less than 375#						
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.03A.0805.15							

Wind reactions based on MWFRS
A Brg Wid = 6.5 Min Req = 1.5
B Brg Wid = 27.4 Min Req =
E Brg Wid = 6.5 Min Req = 1.5
Bearings A, B, & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	24	0.58	1.14
TC	24	1.14	2.86
BC	24	0.15	2.14

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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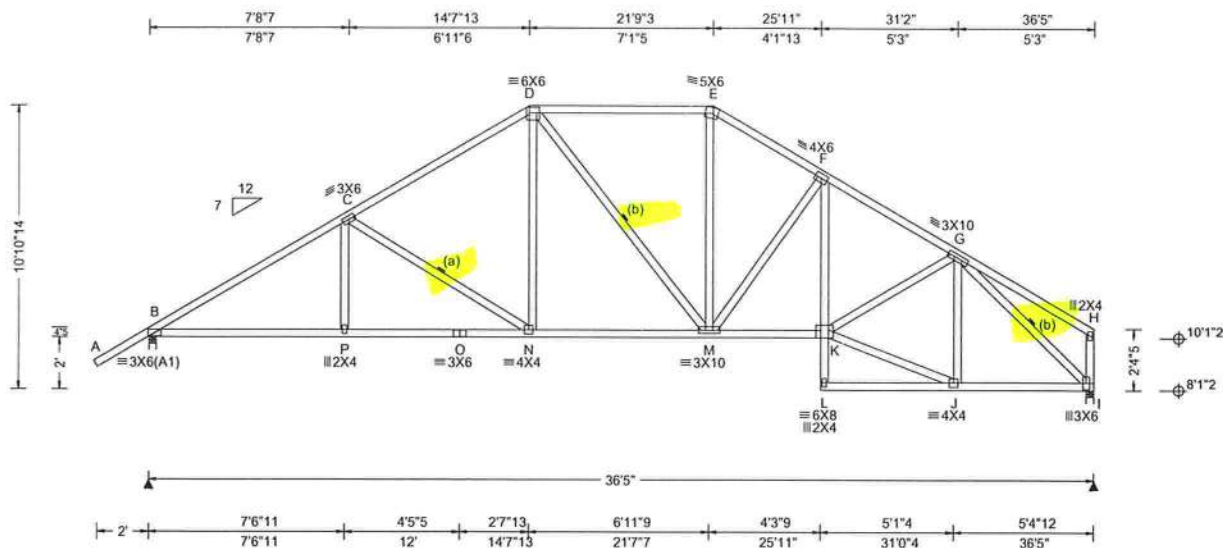
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115333 FROM: RNB	HIPS Qty: 1	Ply: 1	Job Number: B55557a Flander Res Truss Label: H15B	Cust: R 857 JRef: 1XGT8570002 T3 DrwNo: 181.22.0800.18350 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.097 N 999 360 VERT(CL): 0.183 N 999 240 HORZ(LL): 0.060 I HORZ(TL): 0.112 I Creep Factor: 2.0 Max TC CSI: 0.984 Max BC CSI: 0.444 Max Web CSI: 0.883 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1523 / / /903 /16 /411 I 1377 / / /778 / / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.9 I Brg Wid = 3.5 Min Req = 1.7 Bearings B & I Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C D 340 2262 E F 322 1688 C D 291 1748 F G 370 2079 D E 311 1421

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	45	2.07	14.65
TC	24	14.65	21.76
TC	49	21.76	36.42
BC	120	0.15	26.04
BC	120	26.06	36.42

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

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

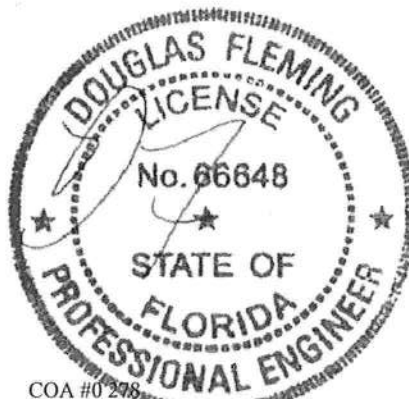
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B P O	1865 343	N M	1422 108
P O	1863 344	M K	1727 274
O N	1863 344	J I	1243 215

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C N	280 523	K J	1321 270
D N	499 65	K G	573 0
M E	517 155	J G	185 409
M F	291 538	G I	241 1714
F K	383 85		



COA #0 298
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06/30/2022

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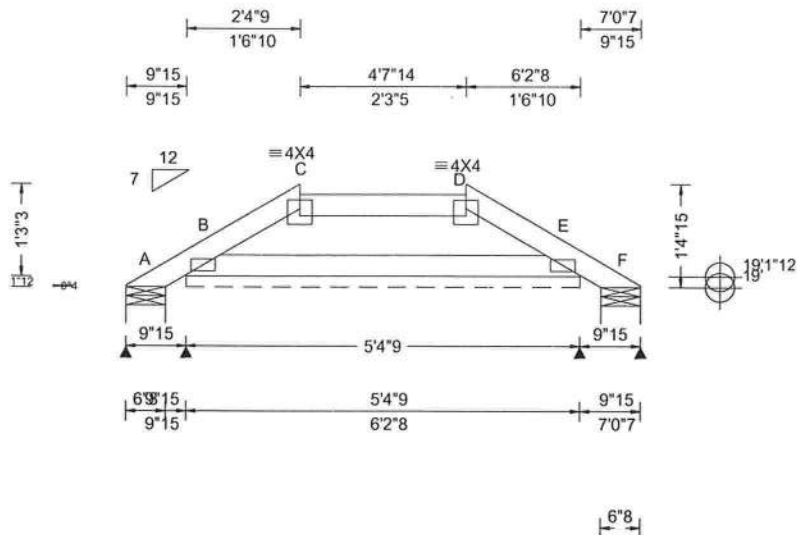
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115335 FROM: RNB	GABL Qty: 1	Ply: 1 Job Number: B55557a Flander Res Truss Label: PB2	Cust: R 857 JRef: 1XGT8570002 T43 DrwNo: 181.22.0759.41610 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 12.11 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.003 D 999 360 VERT(CL): 0.007 D 999 240 HORZ(LL): 0.001 E HORZ(TL): 0.003 E Creep Factor: 2.0 Max TC CSI: 0.134 Max BC CSI: 0.091 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL A 19 / / /32 /38 /53 B* 155 / / /58 /37 / F 22 / / /5 /14 / Wind reactions based on MWFRS A Brg Wid = 6.5 Min Req = 1.5 B Brg Wid = 64.6 Min Req = F Brg Wid = 6.5 Min Req = 1.5 Bearings A, 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.

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	29	0.58	1.55
TC	24	1.55	3.83
TC	29	3.83	5.96
BC	61	0.15	5.24

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

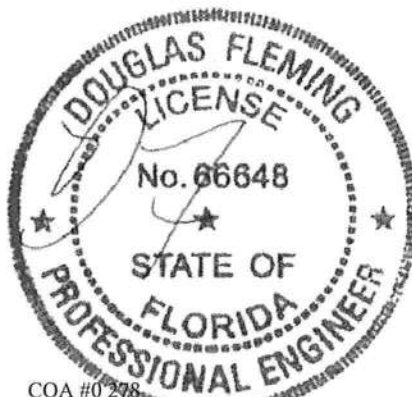
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



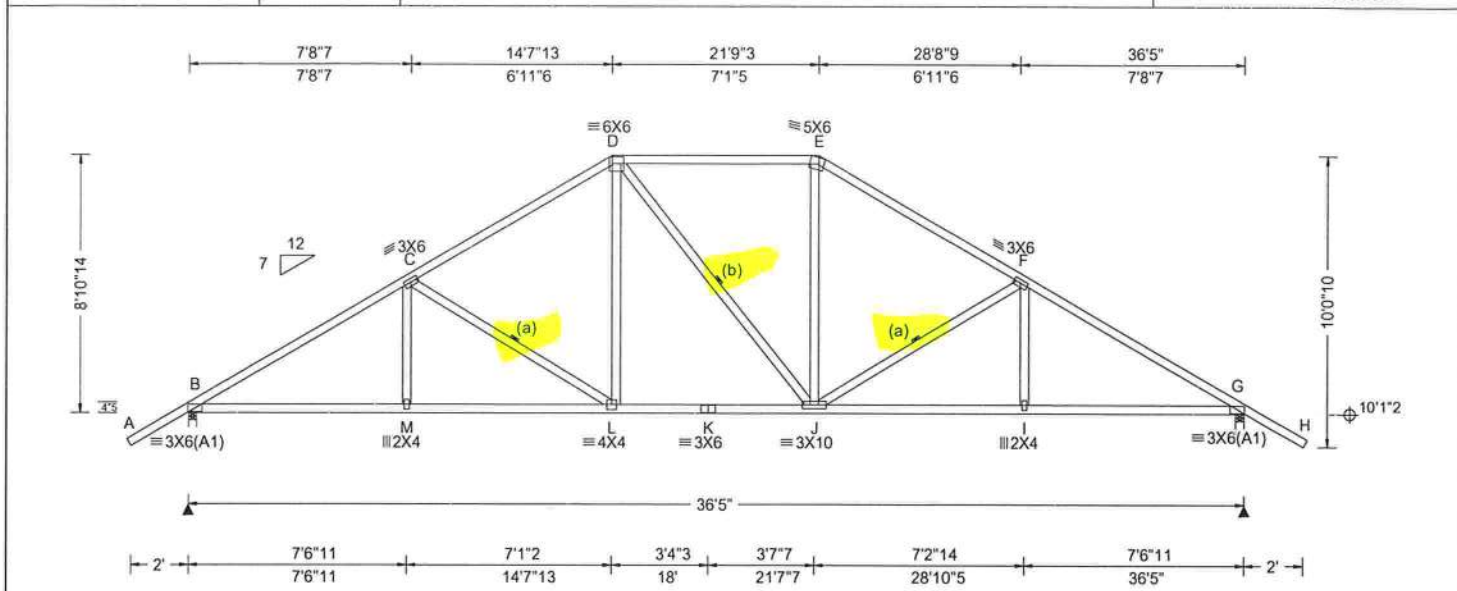
COA #0 278
Florida Certificate of Product Approval #FL1999
06/30/2022

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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: 115338 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55557a Flander Res Truss Label: T 1	Cust: R 857 JRef: 1XGT8570002 T10 DrwNo: 181.22.0759.22163 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.14 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.64 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.100 L 999 360 VERT(CL): 0.187 L 999 240 HORZ(LL): 0.048 G HORZ(TL): 0.089 G Creep Factor: 2.0 Max TC CSI: 0.972 Max BC CSI: 0.447 Max Web CSI: 0.460 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 1513 / / /901 /10 /340 G 1513 / / /901 /10 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.9 G Brg Wid = 3.5 Min Req = 1.9 Bearings B & G Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 322 2244 E F 267 1721 C D 270 1728 F G 321 2244 D E 292 1405

Lumber	Loading	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;	Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance. Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.	Chords Tens.Comp. Chords Tens. Comp. B M 1850 100 K J 1404 0 M L 1848 101 J I 1847 118 L K 1404 0 I G 1849 116
Bracing (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc. (b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.		Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C L 287 527 J E 493 67 D L 492 71 J F 287 530

Plating Notes	Purlins	Wind
Plates sized for a minimum of 3.50 sq.in./piece.	In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Chord Spacing(in oc) Start(ft) End(ft) TC 45 2.07 14.65 TC 24 14.65 21.76 TC 45 21.76 38.49 BC 120 0.15 36.27 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.	Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.

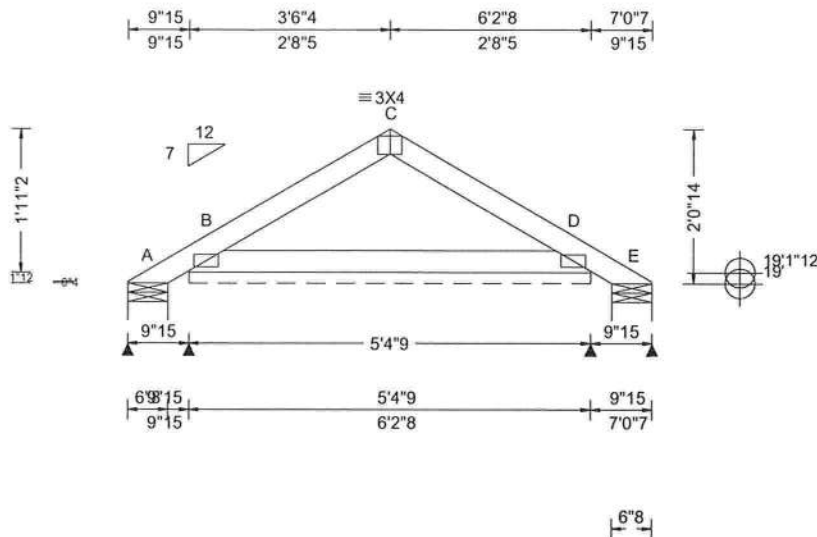


COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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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



SEQN: 115340 FROM: RNB	GABL Qty: 2	Ply: 1	Job Number: B55557a Flander Res Truss Label: PB3	Cust: R 857 JRef: 1XGT8570002 T44 DrwNo: 181.22.0759.40033 SSB / DF 06/30/2022
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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: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.002 C 999 360	Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 C 999 240	A		/ 19	/	/49	/65	/82
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D	B*	158	/	/	/67	/44	/
	EXP: C Kzt: NA		HORZ(TL): 0.002 D	E		/ 19	/	/9	/25	/
Des Ld: 37.00	Mean Height: 15.14 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS						
NCBCLL: 10.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.093	A	Brg Wid = 6.5		Min Req = 1.5			
Soffit: 2.00	BCDL: 6.0 psf	TPI Std: 2014	Max BC CSI: 0.083	B	Brg Wid = 64.6		Min Req =			
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	Rep Fac: Varies by Ld Case	Max Web CSI: 0.000	E	Brg Wid = 6.5		Min Req = 1.5			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/0(0)		Bearings A, B, & E are a rigid surface.						
	Loc. from endwall: not in 12.11 ft	Plate Type(s):		Members not listed have forces less than 375#						
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.03A.0805.15							
	Wind Duration: 1.60									

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	45	0.58	2.69
TC	45	2.69	5.96
BC	61	0.15	5.24

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

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 #0 208
Florida Certificate of Product Approval #FL1999
06/30/2022

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

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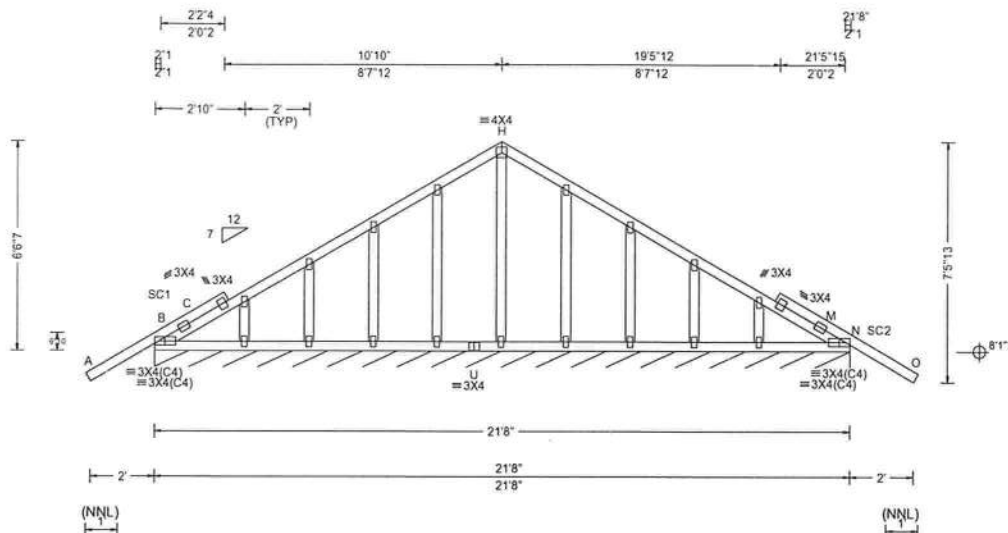
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115345 FROM: RNB	GABL Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: GE6	Cust: R 857 JRef: 1XGT8570002 T18 DrwNo: 181.22.0758.30773 SSB / DF 06/30/2022
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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: 7.00		Speed: 140 mph		Pf: NA Ce: NA		VERT(LL): 0.003 B 999 360		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.008 C 999 240		N* 126 / / /49 / /6							
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.002 M		Wind reactions based on MWFRS							
Des Ld: 37.00		EXP: C Kzt: NA		Building Code:		HORZ(TL): 0.004 M		N Brg Wid = 260 Min Req =							
NCBCLL: 10.00		Mean Height: 15.00 ft		FBC 7th Ed. 2020 Res.		Creep Factor: 2.0		Bearing B Fcperp = 425psi.							
Soffit: 2.00		TCDL: 4.2 psf		TPI Std: 2014		Max TC CSI: 0.386		Members not listed have forces less than 375#							
Load Duration: 1.25		BCDL: 6.0 psf		Rep Fac: Varies by Ld Case		Max BC CSI: 0.296		Maximum Top Chord Forces Per Ply (lbs)							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		FT/RT:20(0)/0(0)		Max Web CSI: 0.072		Chords		Tens.Comp.		Chords		Tens. Comp.	
		C&C Dist a: 3.00 ft		Plate Type(s):		VIEW Ver: 21.01.03A.0805.15		B	C	889	831	M	N	641	755
		Loc. from endwall: Any		WAVE											
		GCpi: 0.18													
		Wind Duration: 1.60													

Lumber

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

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	65	2.07	2.76
TC	75	0.00	10.83
TC	75	10.83	21.67
TC	65	18.91	23.74
BC	75	0.00	21.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Wind loading based on both gable and hip roof types.

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 #0 208
Florida Certificate of Product Approval #FL1999
06/30/2022

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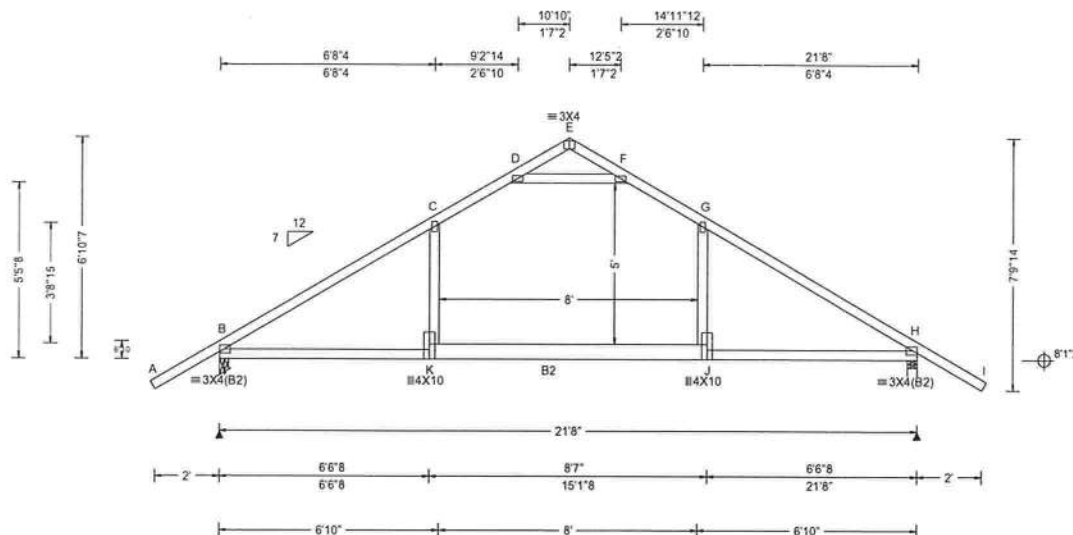
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115347 FROM: RNB	COMN Qty: 12	Ply: 1	Job Number: B55557a Flander Res Truss Label: T 4	Cust: R 857 JRef: 1XGT8570002 T17 DrwNo: 181.22.0759.02497 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.278 C 928 360 VERT(CL): 0.577 C 447 240 HORZ(LL): 0.167 C HORZ(TL): 0.346 C Creep Factor: 2.0 Max TC CSI: 0.997 Max BC CSI: 0.484 Max Web CSI: 0.118 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL B 952 / / /570 /257 /262 H 952 / / /570 /257 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 H Brg Wid = 3.5 Min Req = 1.5 Bearings B & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 453 1159 E F 599 247 C D 512 864 F G 513 864 D E 599 248 G H 453 1159

Lumber

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

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	31	2.07	10.83
TC	31	10.83	23.74
BC	120	0.13	21.53

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

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

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Wind

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

Wind loading based on both gable and hip roof types.

Collar Tie braced with continuous lateral bracing @24" OC, or rigid sheathing



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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B K	892 165	J H	892 165
K J	887 166		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
D F	865 1580

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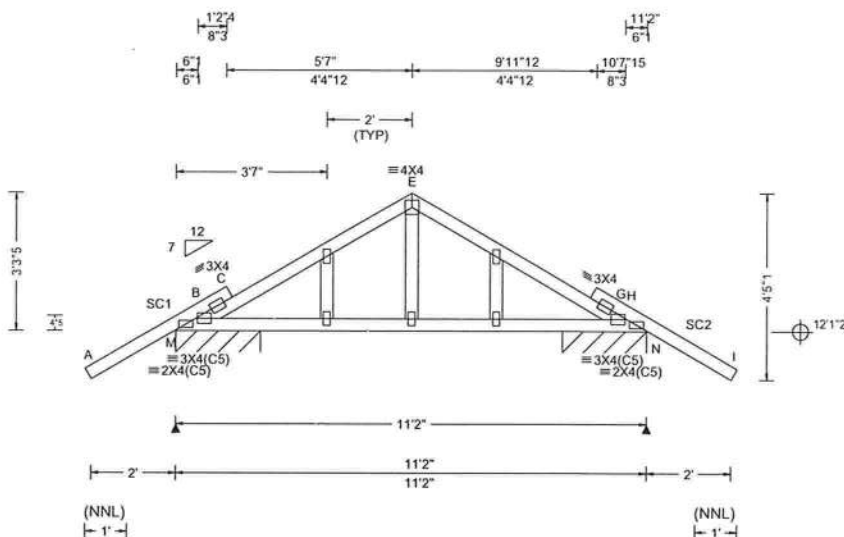
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115349 FROM: RNB	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: GE5	Cust: R 857 JRef: 1XGT8570002 T15 DrwNo: 181.22.0758.32110 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.011 F 999 360 VERT(CL): 0.019 F 999 240 HORZ(LL): 0.005 D HORZ(TL): 0.008 D Creep Factor: 2.0 Max TC CSI: 0.525 Max BC CSI: 0.216 Max Web CSI: 0.052 VIEW Ver: 21.01.03A.0805.15	Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity M* 365 / / /206 /36 /62 N* 365 / / /206 /36 / Wind reactions based on MWFRS M Brg Wid = 24.0 Min Req = N Brg Wid = 24.0 Min Req = Bearings M & G Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 344 480 E G 130 478 C E 268 478 G H 110 608

Lumber

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

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	42	2.07	1.05
TC	72	0.29	5.58
TC	72	5.58	10.88
TC	42	10.11	13.24
BC	120	0.29	10.88

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Wind loading based on both gable and hip roof types.

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 #0 278
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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.
B H	712 0

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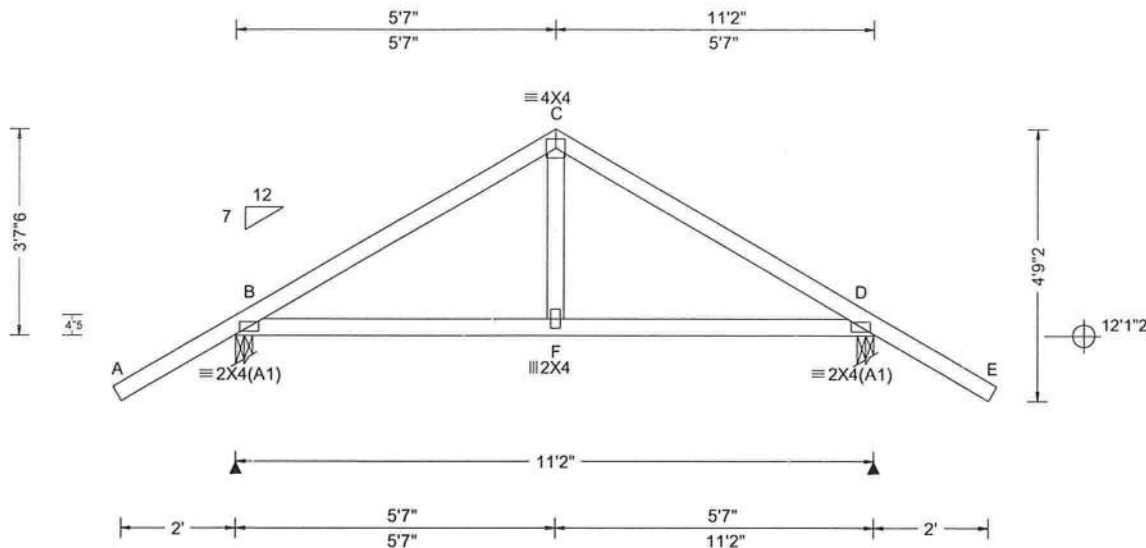
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115351 FROM: RNB	COMN Qty: 2	Job Number: B55557a Flander Res Truss Label: T 2	Cust: R 857 JRef: 1XGT8570002 T13 DrwNo: 181.22.0759.20257 SSB / DF 06/30/2022
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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:	7.00	Speed:	140 mph	Pf: NA		Ce: NA	VERT(LL):	0.006	F	999	360	Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	0.012	F	999	240	B	552	/	/	/363	/156	/171	
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL):	0.003	D			D	552	/	/	/363	/156	/	
Des Ld:	37.00	EXP: C	Kzt: NA	Building Code:			HORZ(TL):	0.005	D			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			
Soffit:	2.00	TCDL:	4.2 psf	TPI Std:	2014		Max TC CSI:	0.448				D	Brg Wid = 3.5			Min Req = 1.5			
Load Duration:	1.25	BCDL:	6.0 psf	Rep Fac:	Yes		Max BC CSI:	0.198				Bearings B & D Fcperp = 425psi.							
Spacing:	24.0 "	C&C Dist a:	3.00 ft	FT/RT:20(0)/0(0)			Max Web CSI:	0.090				Members not listed have forces less than 375#							
		Loc. from endwall:	Any	Plate Type(s):								Maximum Top Chord Forces Per Ply (lbs)							
		GCpi:	0.18	WAVE								Chords	Tens.Comp.	Chords	Tens. Comp.				
		Wind Duration:	1.60				VIEW Ver:	21.01.03A.0805.15				B	C	296	472	C	D	296	472

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	5.58
TC	75	5.58	13.24
BC	120	0.15	11.02

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



COA #0 218
Florida Certificate of Product Approval #FL1999
06/30/2022

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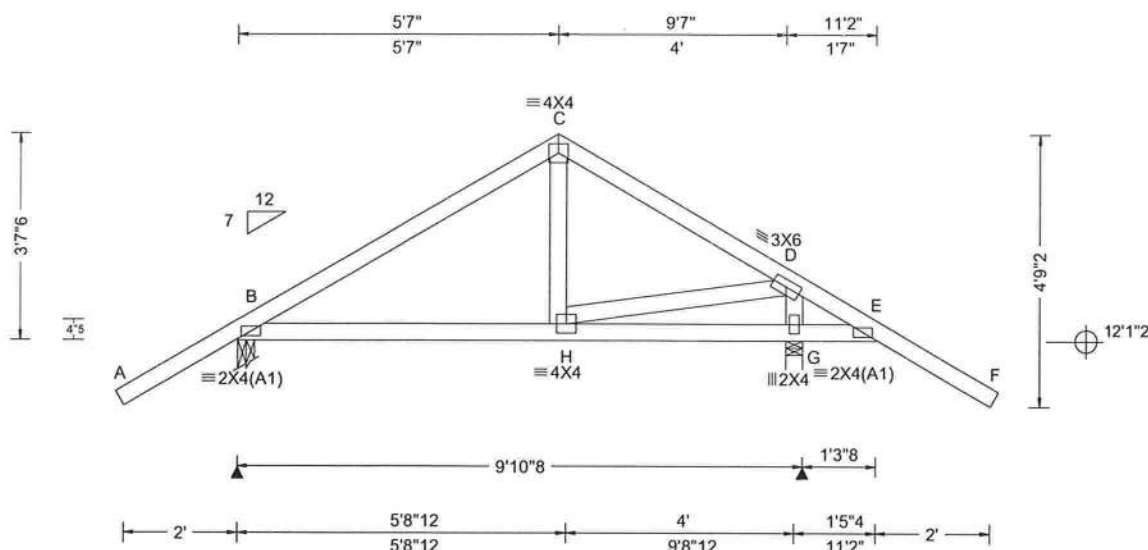
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 115355 FROM: RNB	COMN Ply: 1 Qty: 2	Job Number: B55557a Flander Res Truss Label: T 3	Cust: R 857 JRef: 1XGT8570002 T8 DrwNo: 181.22.0759.18423 SSB / DF 06/30/2022
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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: 7.00		Speed: 140 mph		Pf: NA Ce: NA		VERT(LL): 0.005 E 999 360		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.010 E 999 240		B	503	/	/	/343	/135	/171
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.003 B		G	626	/	/	/412	/177	/
Des Ld: 37.00		EXP: C Kzt: NA		Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE		HORZ(TL): 0.005 B		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						
Soffit: 2.00		TCDL: 4.2 psf				Max TC CSI: 0.367		G Brg Wid = 3.5 Min Req = 1.5						
Load Duration: 1.25		BCDL: 6.0 psf				Max BC CSI: 0.177		Bearings B & G Fcperp = 425psi.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft				Max Web CSI: 0.197		Members not listed have forces less than 375#						
		Loc. from endwall: not in 4.50 ft GCpi: 0.18				VIEW Ver: 21.01.03A.0805.15		Maximum Top Chord Forces Per Ply (lbs)						
		Wind Duration: 1.60						Chords Tens.Comp.						
								D	E	426	493			

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	2.07	5.58
TC	75	5.58	13.24
BC	75	0.15	11.17

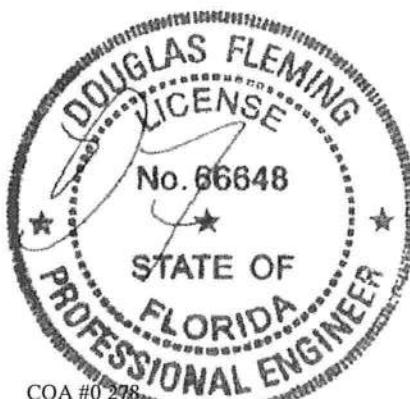
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Right cantilever is not exposed to wind

Wind loading based on both gable and hip roof types.



COA #0 248
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06/30/2022

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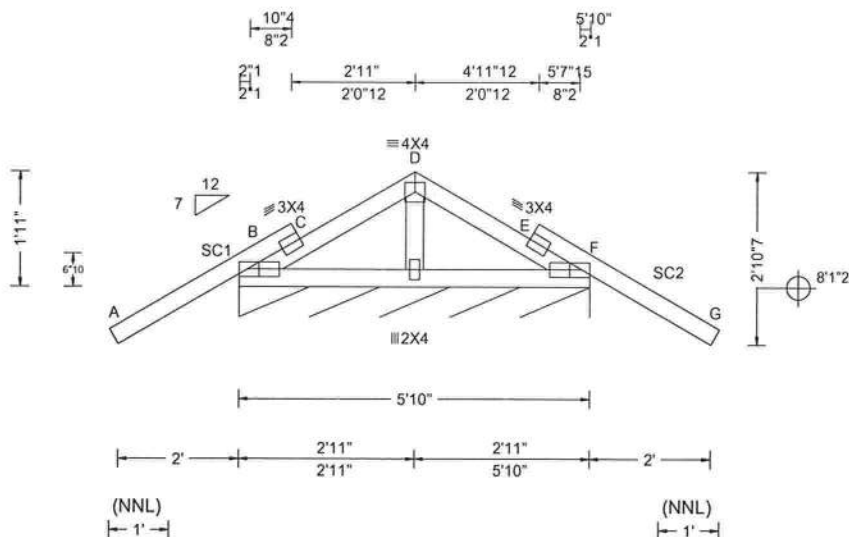
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A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

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

SEQN: 115357 FROM: RNB	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: B55557a Flander Res Truss Label: GE1	Cust: R 857 JRef: 1XGT8570002 T2 DrwNo: 181.22.0758.33483 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in Loc L/defl L/# VERT(LL): 0.016 C 999 360 VERT(CL): 0.020 C 999 240 HORZ(LL): 0.010 E HORZ(TL): 0.011 E Creep Factor: 2.0 Max TC CSI: 0.616 Max BC CSI: 0.267 Max Web CSI: 0.020 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL F* 155 / / /66 /91 /21 Wind reactions based on MWFRS F Brg Wid = 70.0 Min Req = Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 969 949 E F 874 855

Lumber

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

Plating Notes

All plates are 3X4(C4) except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	41	2.07	1.00
TC	39	0.00	2.92
TC	39	2.92	5.83
TC	41	4.83	7.91
BC	70	0.00	5.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Loading

Truss designed to support 14.0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

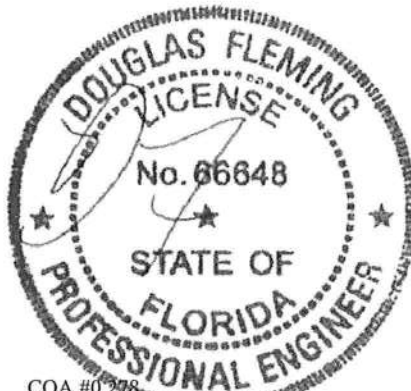
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

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 #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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

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

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

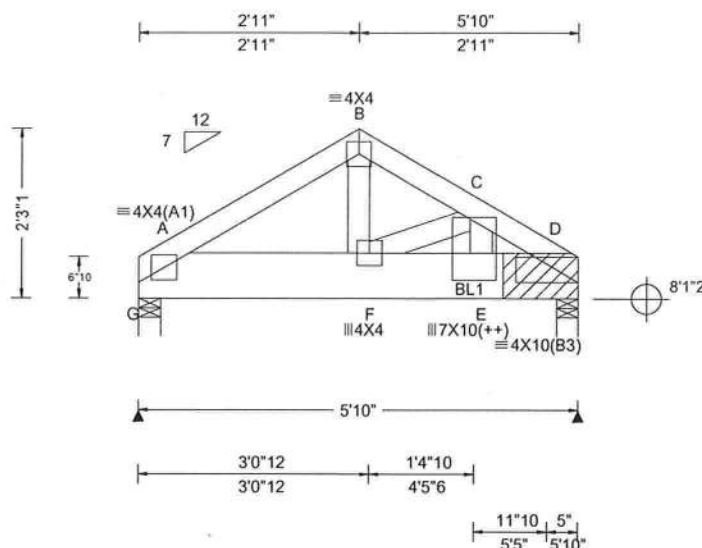
Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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

SEQN: 115365 FROM: RNB	COMN Qty: 1	Job Number: B55557a Flander Res Truss Label: TG 1	Cust: R 857 JRef: 1XGT8570002 T36 DrwNo: 181.22.0759.00827 SSB / DF 06/30/2022
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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: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 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)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.016 E 999 360 VERT(CL): 0.030 E 999 240 HORZ(LL): 0.003 D HORZ(TL): 0.005 D Creep Factor: 2.0 Max TC CSI: 0.928 Max BC CSI: 0.396 Max Web CSI: 0.732 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ /R /Rh /Rw /U /RL G 1224 / / / /364 / D 3031 / / / /1091 / Wind reactions based on MWFRS G Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 3.5 Min Req = Bearings G & D Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 556 1633 C D 1289 3600 B C 580 1725

Lumber

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

Special Loads

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

TC: From 56 plf at 0.00 to 56 plf at 5.83
BC: From 10 plf at 0.00 to 10 plf at 5.83
BC: 148 lb Conc. Load at 0.48
BC: 224 lb Conc. Load at 2.48
BC: 3498 lb Conc. Load at 4.48

Plating Notes

(++) This plate works for both joints covered.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	41	0.00	2.92
TC	35	2.92	5.83
BC	66	0.15	5.69

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Bearing Block(s)

Brg blocks: 0.128"x3", min. nails
brg x loc #blocks length/blk #nails/blk wall plate
2 5.542' 1 12" 4 SPF Standard
Brg block to be same size and species as chord.
Refer to drawing CNNAILSP1014 for more information.

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



COA #0 248
Florida Certificate of Product Approval #FL1999
06/30/2022

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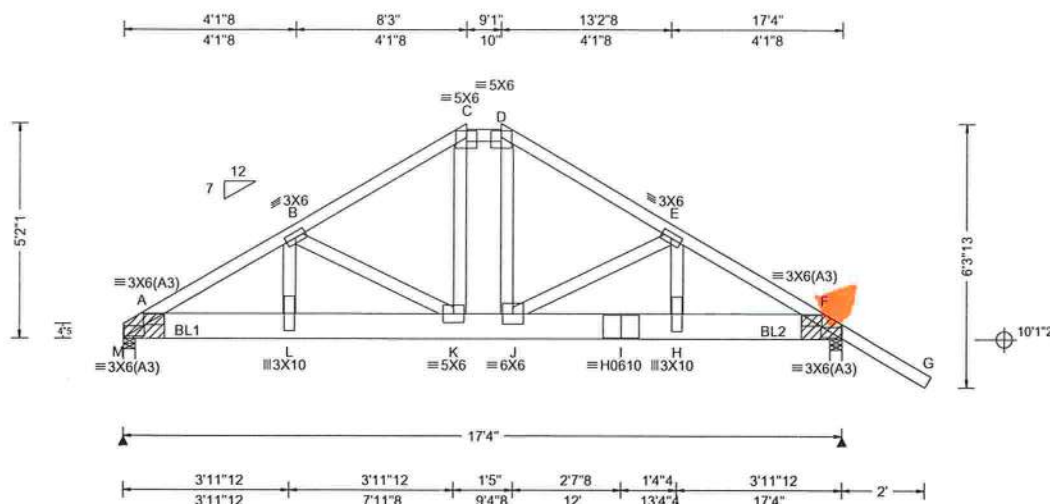
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155 Harlem Ave
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Glenview, IL 60025

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/0(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.093 K 999 360 VERT(CL): 0.170 K 999 240 HORZ(LL): 0.026 B HORZ(TL): 0.047 B Creep Factor: 2.0 Max TC CSI: 0.994 Max BC CSI: 0.443 Max Web CSI: 0.649 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ / R / Rh / Rw / U / RL M 5847 / / / / 589 / F 6318 / / / / 811 / Wind reactions based on MWFRS M Brg Wid = 3.5 Min Req = F Brg Wid = 3.5 Min Req = Bearings M & F Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A B 503 4934 D E 401 3552 B C 405 3567 E F 568 4880 C D 329 2972

Lumber

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

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
(1) 1/2" bolts may be used for
(2) 0.128"x3", min. nails on
The Bottom Chord Only.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 0.00 to 56 plf at 9.08
TC: From 28 plf at 9.08 to 28 plf at 15.98
TC: From 56 plf at 15.98 to 56 plf at 19.48
BC: From 10 plf at 0.00 to 10 plf at 17.33
BC: From 5 plf at 17.33 to 5 plf at 19.48
BC: 1383 lb Conc. Load at 1.98, 3.98, 5.98
BC: 1387 lb Conc. Load at 7.98, 9.98, 11.98, 13.98
15.98

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Wind

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

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	35	0.15	8.25
TC	24	8.25	9.08
TC	32	9.08	19.41
BC	120	0.15	17.19

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.



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06/30/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A L	4252 427	J I	4170 481
L K	4211 425	I H	4170 481
K J	2972 329	H F	4211 485

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L B	1272 44	D J	1703 187
B K	101 1317	J E	162 1275
K C	1680 137	E H	1288 138

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

SEQN: 115368	HIPS	Ply: 2	Job Number: B55557a	Cust: R 857 JRef: 1XGT8570002 T11
FROM: RNB		Qty: 1	Flander Res	DrwNo: 181.22.0800.04330
Page 2 of 2			Truss Label: HG8B	SSB / DF 06/30/2022

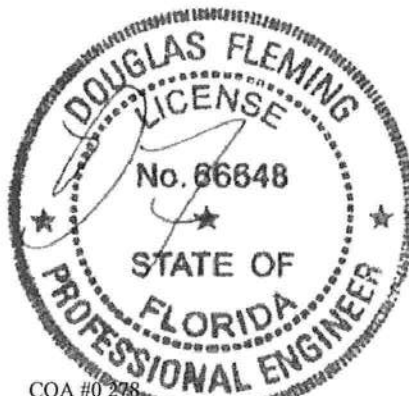
Bearing Block(s)

Brg blocks: 0.128"x3", min. nails

brg	x loc	#blocks	length/blk	#nails/blk	wall plate
1	0.000'	1	12"	7	SPF Standard
2	17.042'	1	12"	11	SPF Standard

Brg block to be same size and species as chord.

Refer to drawing CNNAILSP1014 for more information.



COA #0248
Florida Certificate of Product Approval #FL1999
06/30/2022

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

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

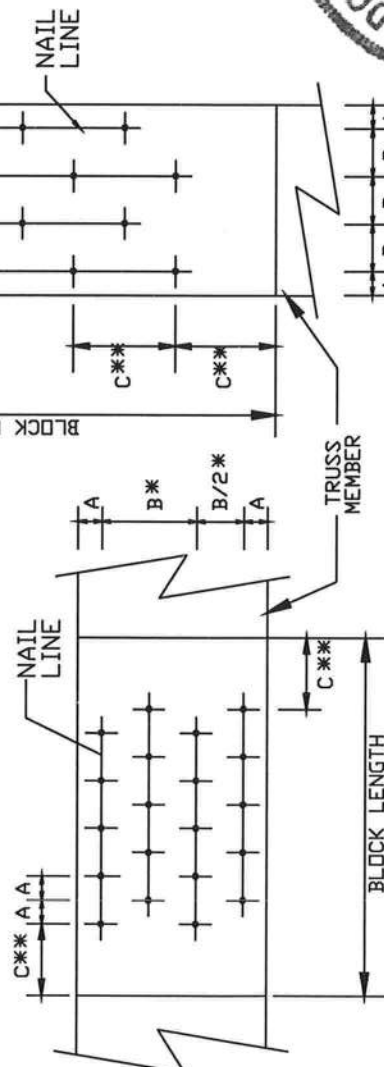
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

** SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

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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 Section 2.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineinc.com TPI: www.tpi.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"



REF NAIL SPACE

DATE 10/01/14

DRWG CNNAILSP1014



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

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

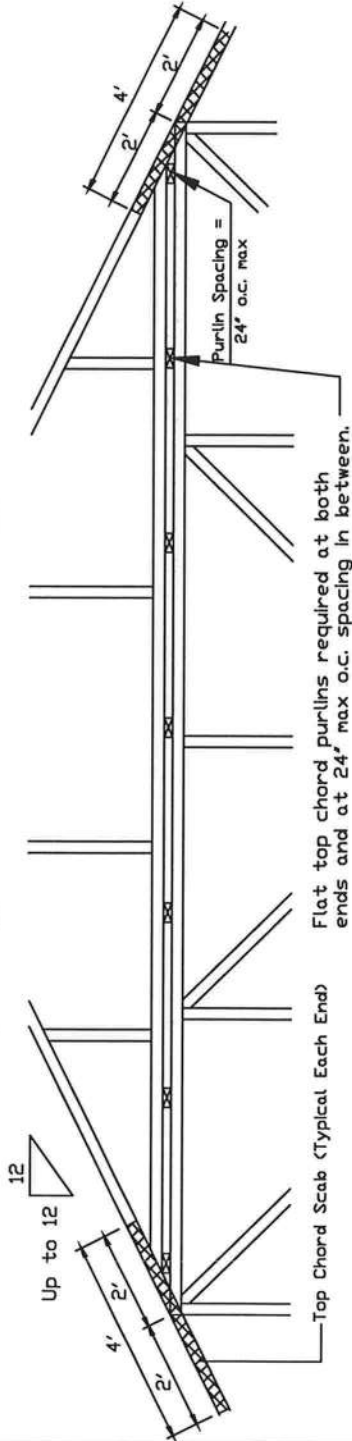
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.00, Dir=140 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.00.

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.

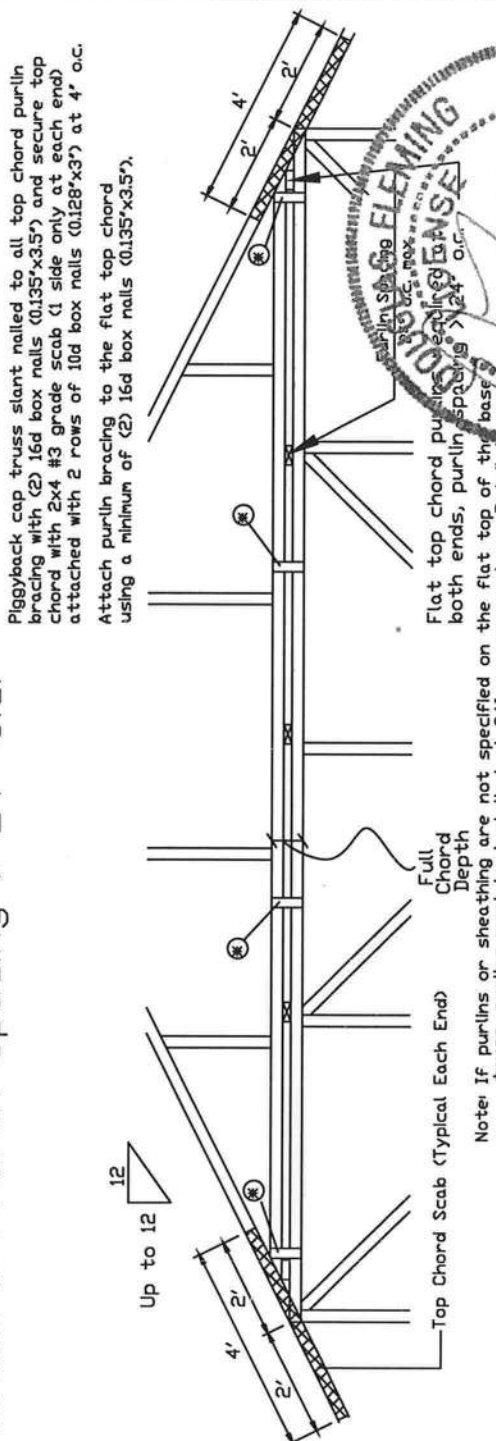
Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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.



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

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Alpine, 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. 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.alpineinc.com TPI: www.tpi.org SBCA: www.sbcacomponents.com ICD: www.icdusa.org



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

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

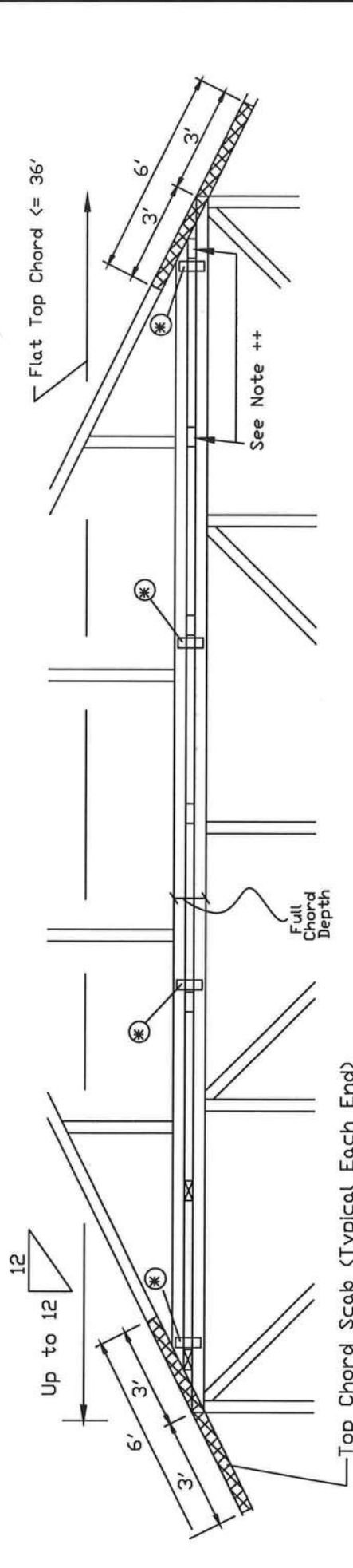
REF PIGGYBACK
DATE 01/02/2018
DRWG PB160160118

SPACING 24.0'

Piggyback Detail - ASCE 7-16: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

180 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 160 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.
Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.
** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

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



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

Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces. APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.135"x2") nails. Per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.	28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces. 2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab. Attach cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
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ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025	WARNING: READ AND FILL IN ALL NOTES ON THIS DRAWING Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI Guiding Component Safety Information, by TPI and SCSA for best practices prior to performing these functions. Installers shall provide temporary bracing and bracing unless otherwise noted. 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 purlins shall have bracing installed per BCSI sections 32, 37 or 310, as applicable. Apply plates to each end and position them from above and on the joint details, unless noted otherwise. Refer to drawings 16042, 16043, 16044, 16045, 16046, 16047, 16048, 16049, 16050, 16051, 16052, 16053, 16054, 16055, 16056, 16057, 16058, 16059, 16060, 16061, 16062, 16063, 16064, 16065, 16066, 16067, 16068, 16069, 16070, 16071, 16072, 16073, 16074, 16075, 16076, 16077, 16078, 16079, 16080, 16081, 16082, 16083, 16084, 16085, 16086, 16087, 16088, 16089, 16090, 16091, 16092, 16093, 16094, 16095, 16096, 16097, 16098, 16099, 16100, 16101, 16102, 16103, 16104, 16105, 16106, 16107, 16108, 16109, 16110, 16111, 16112, 16113, 16114, 16115, 16116, 16117, 16118, 16119, 16120, 16121, 16122, 16123, 16124, 16125, 16126, 16127, 16128, 16129, 16130, 16131, 16132, 16133, 16134, 16135, 16136, 16137, 16138, 16139, 16140, 16141, 16142, 16143, 16144, 16145, 16146, 16147, 16148, 16149, 16150, 16151, 16152, 16153, 16154, 16155, 16156, 16157, 16158, 16159, 16160, 16161, 16162, 16163, 16164, 16165, 16166, 16167, 16168, 16169, 16170, 16171, 16172, 16173, 16174, 16175, 16176, 16177, 16178, 16179, 16180, 16181, 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17612, 1	
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This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12' max length of damaged section
(L) = Minimum nailing distance on each side of damaged area (B)
(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = $(2)(L) + (B)$

Scab member length (S) must be within the broken panel.

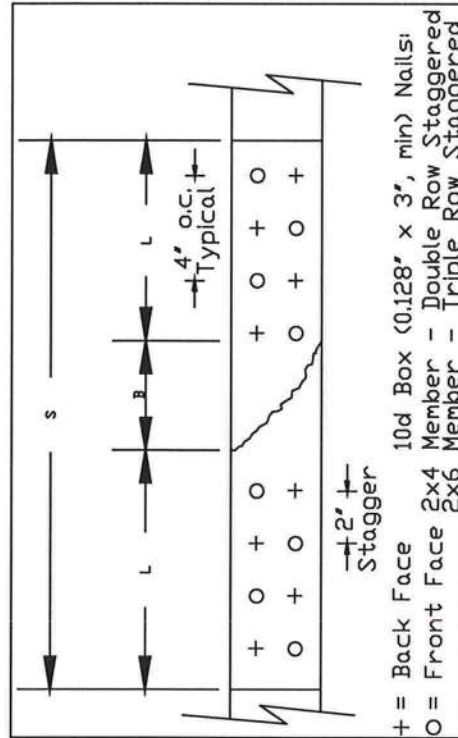
Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.
Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.



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

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 Guiding Component Safety Information, by TPI and SBCOA for complete instructions prior to performing these functions. Installers shall provide temporary bracing per drawings noted otherwise. Top chord shall have properly attached structural sheathing and bolting as shown. All trusses installed per BCSI 160A-2 must be equipped with permanent lateral restraint plates. Truss installation shall be in accordance with BCSI 160B-2. Properly install top plates to each end of all trusses and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

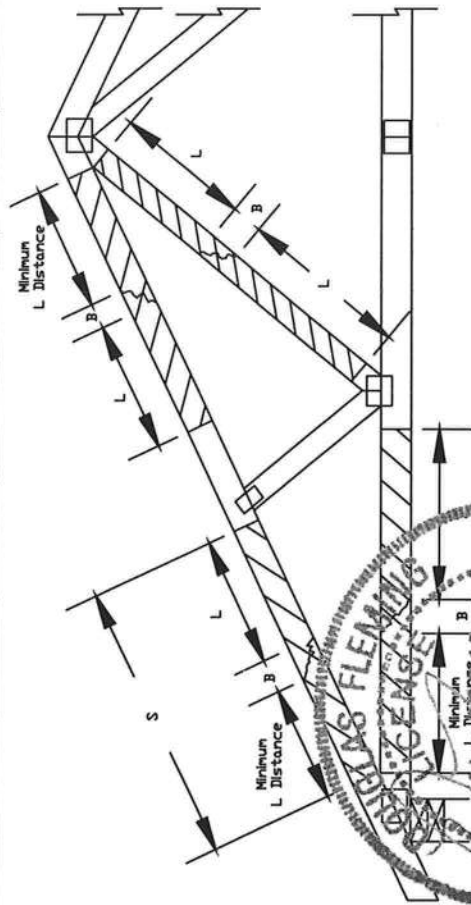
Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviations from this drawing or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or bracing of trusses.

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.alpineitv.com TPI: www.tpinet.org SBCOA: www.sbcocanet.com IBC: www.ibccsa.org

ALPINE: www.alpheltw.com TPI: www.tpinst.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

			Maximum Member Axial Force			
Member	Size	L	SPF-C	HF	DF-L	SYP
Web Only	2x4	12'	620#	635#	730#	800#
Web Only	2x4	18'	975#	1055#	1295#	1415#
Web or Chord	2x4	24'	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30'	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36'	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42'	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48'	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



Professional Engineer Seal for the State of Florida, No. 69943, signed by J. J. BCS.

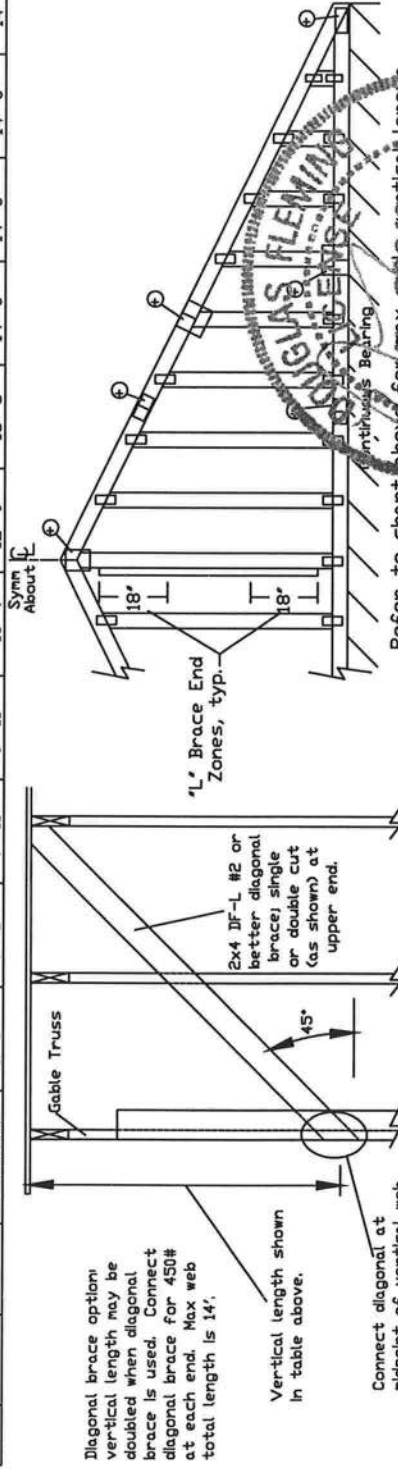
REF	MEMBER REPAIR
DATE	10/01/14
DRWG	REPCHRD1014

Gable Stud Reinforcement Detail

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

Dr: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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



ALPINE
AN ITW COMPANY

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

Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to the latest edition of ITW Building Components Safety Information, by ITI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per SBCI. Unless noted otherwise, top chord shall have property attached structural steeling and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-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 Sec2.

For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineitw.com TPI: www.tpiinc.org SBCA: www.sbcacomponents.com IDO: www.idocsa.org

IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING INCLUDING THE INSTALLER'S INSTRUCTIONS. FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.

Refer to chart above for 18" x 18" x 1/4" vertical length.

Bracing Group Species and Grades:			
Group A:		Group B:	
Spruce-Pine-Fir	Hen-Fir	Spruce-Pine-Fir	Hen-Fir
#1 / #2	Standard	#1	Standard
#3	Stud	#2	Standard
Douglas Fir-Larch	Southern Pine	Douglas Fir-Larch	Southern Pine
#3	Standard	#1	Standard
Stud	Standard	#2	Standard

1x4 Braces shall be SRB (Stress-Rated Board).
 For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
 Wind Load deflection criterion is L/240.
 Provide uplift connections for 55 psf over continuous bearing (5 psf IC Dead Load).
 Gable end supports load from 4' o' outlookers with 2' o' overhang, or 12' plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.
 * For (1) "L" brace: space nails at 2' o.c. In 18' end zones and 4' o.c. between zones.
 * For (2) "L" braces: space nails at 3' o.c. In 18' end zones and 6' o.c. between zones.
 "L" bracing must be a minimum of 80% of web member length.

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

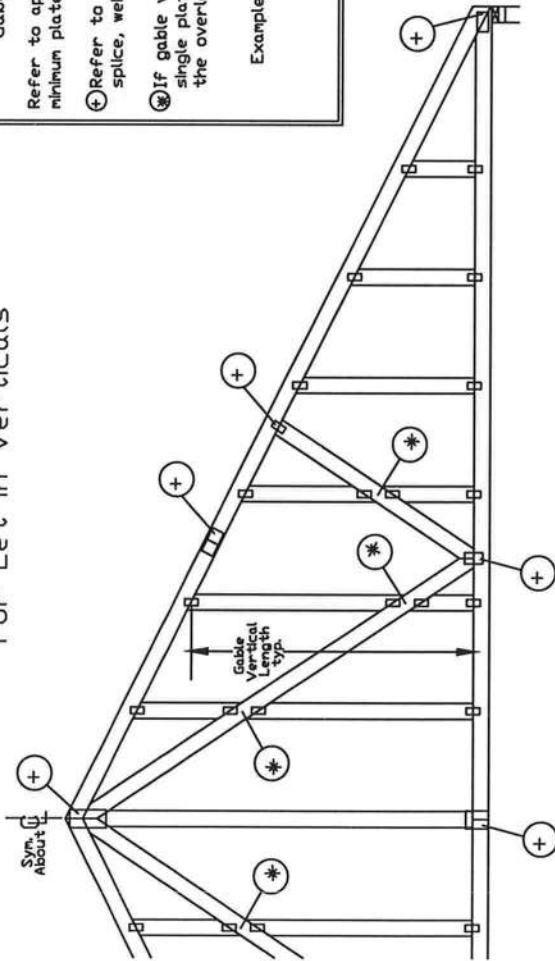
+ Refer to common truss design for peak, splice, and heel plates.

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

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

MAX. TOT. L.D.	60 PSF
MAX. SPACING	24.0"

Gable Detail For Let-In Verticals



Gable Truss Plate Sizes

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

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

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



Example:

'T' Reinforcement Attachment Detail



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 = 100

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

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

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

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

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x 3.7" min) Nails at 4' o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3.7" min) Toenails at 4' o.c. plus

(4) toenails in the top and bottom chords.

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

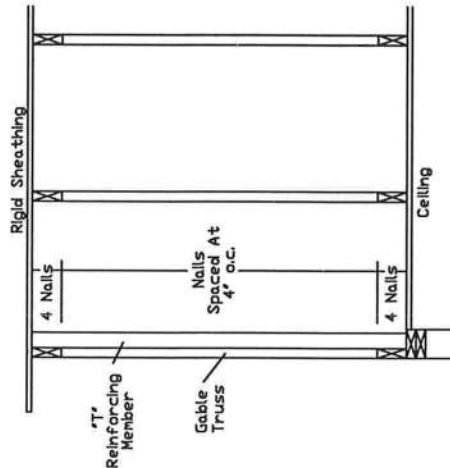
ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A22015ENC100118, A24015ENC100118, A26015ENC100118, A28015ENC100118, A30015ENC100118, A32015ENC100118, A34015ENC100118, A36015ENC100118, A38015ENC100118, A40015ENC100118, A42015ENC100118, A44015ENC100118, A46015ENC100118, A48015ENC100118, A50015ENC100118, A52015ENC100118, A54015ENC100118, A56015ENC100118, A58015ENC100118, A60015ENC100118, A62015ENC100118, A64015ENC100118, A66015ENC100118, A68015ENC100118, A70015ENC100118, A72015ENC100118, A74015ENC100118, A76015ENC100118, A78015ENC100118, A80015ENC100118, A82015ENC100118, A84015ENC100118, A86015ENC100118, A88015ENC100118, A90015ENC100118, A92015ENC100118, A94015ENC100118, A96015ENC100118, A98015ENC100118, A100015ENC100118

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



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 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 BCSI ceiling. BCSI ceiling shall be installed in accordance with the BCSI instructions. Refer to drawings 150A-2 for standard plate positions.
 Alpine, a division of ITV 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 is hereby required. The seal shall be placed on the bottom right corner of this drawing. For any structure is the responsibility of the Building Designer per ANSI/TPI 1. SCS.

For more information see this job's general notes page and the web site:
 ALPINE: www.alpineinc.com TPI: www.tpi.com SBCA: www.sbcacomponents.com ID: www.sbcase.org



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"



Commentary:

Deflection and Camber

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

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

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

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

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

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

Recommended Truss Deflection Limits

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

Recommended Camber

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

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

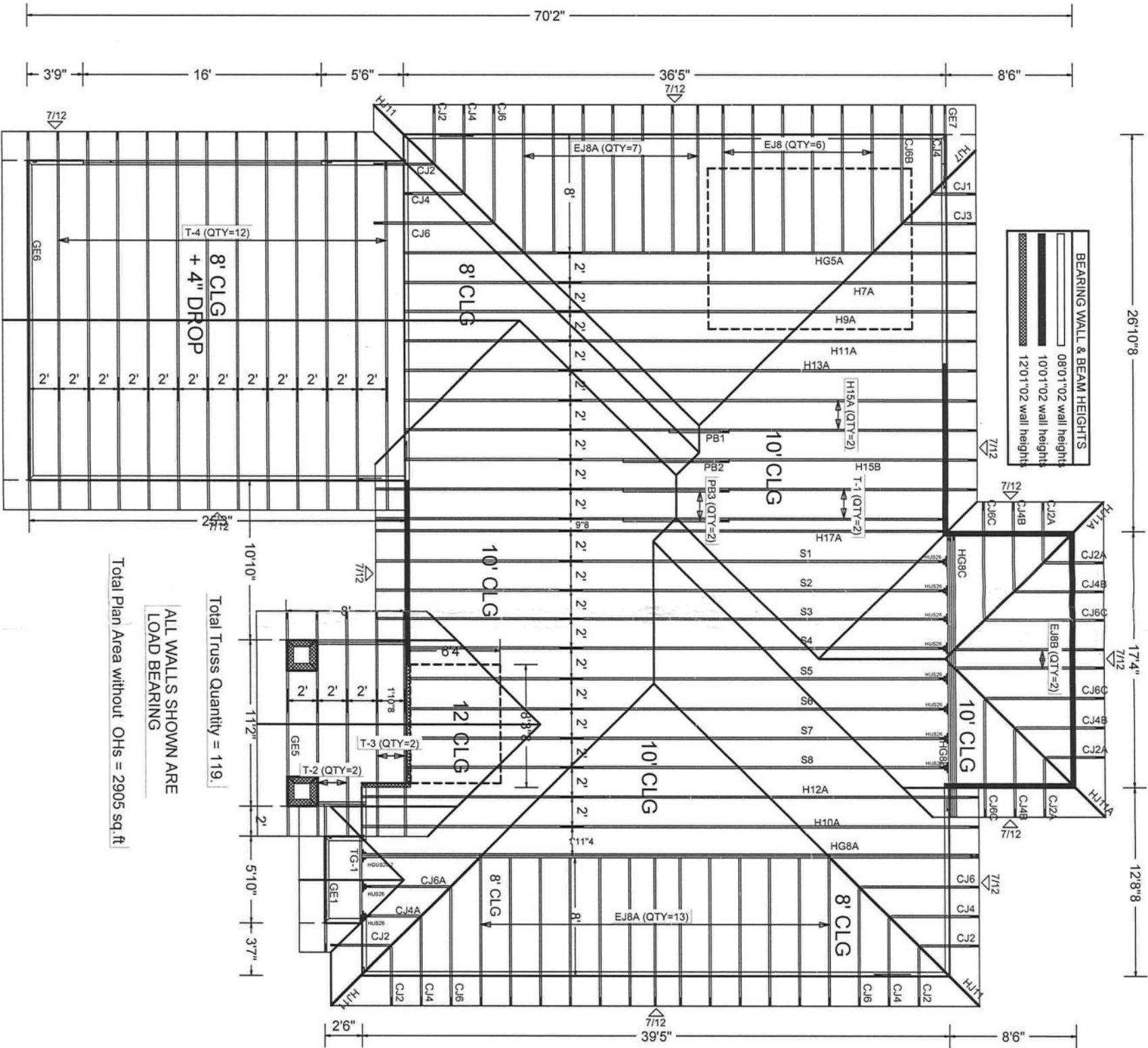
IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING
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 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, or bracing of trusses.
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 For more information see this Job's general notes page and these web sites:
 ALPINE: www.alpine.com TPI: www.tpi.com SCAI: www.scai.com ICD: www.icd.com



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



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



Job Name: Flander Res
Customer: Erkinger Home Builders
Designer: Rodney Barone
PlanName:
Created : 06-15-2022
SemRef# : B55557a

JOB NO:
B55557a

