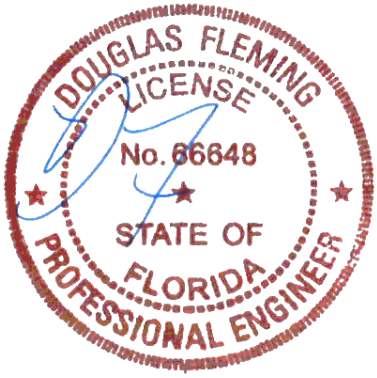

Alpine, an ITW Company
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com

COA #0 278
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09/24/2024

This item has been digitally signed by Douglas Fleming on the date adjacent to the seal.

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Site Information:	**Page 1:**
Customer: W. B. Howland Company, Inc.	*Job Number:* 24-1711
Job Description: Ryan	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	*IntelliVIEW Version:* 23.02.04 *JRef #:* 1Y3I2150010
Wind Standard: ASCE 7-22 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 40.00, 55.00

This package contains general notes pages, 26 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	267.24.1617.50557	A01
3	267.24.1617.52357	A03
5	267.24.1617.54350	B02
7	267.24.1617.57607	C02
9	267.24.1618.02297	C03
11	267.24.1618.06303	F02
13	267.24.1618.19213	F04
15	267.24.1618.28080	F06
17	267.24.1618.34553	F08
19	267.24.1618.38233	J01
21	267.24.1618.54073	PB01
23	267.24.1618.58180	PB03
25	267.24.1619.15997	V02
27	BRCLBSUB0119	
29	PB160220723	
31	VALTN220723	

Item	Drawing Number	Truss
2	267.24.1617.51550	A02
4	267.24.1617.53303	B01
6	267.24.1617.55877	C01
8	267.24.1618.00530	C04
10	267.24.1618.04760	F01
12	267.24.1618.15810	F03
14	267.24.1618.21907	F05
16	267.24.1618.30977	F07
18	267.24.1618.36457	F09
20	267.24.1618.50190	J02
22	267.24.1618.55443	PB02
24	267.24.1619.11197	V01
26	267.24.1619.21907	V03
28	STRBRIBR1014	
30	VAL180220723	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

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

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

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
C = Coated lumber.
C-AT = AtTEK coated lumber.
C-FX = FX Lumber Guard coated lumber.
C -TE = TechWood 4400 coated lumber.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-BF = Boraflame Fire Retardant Treated lumber
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-ON = OnWood Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
FRT-PR = ProWood Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

General Notes (continued)

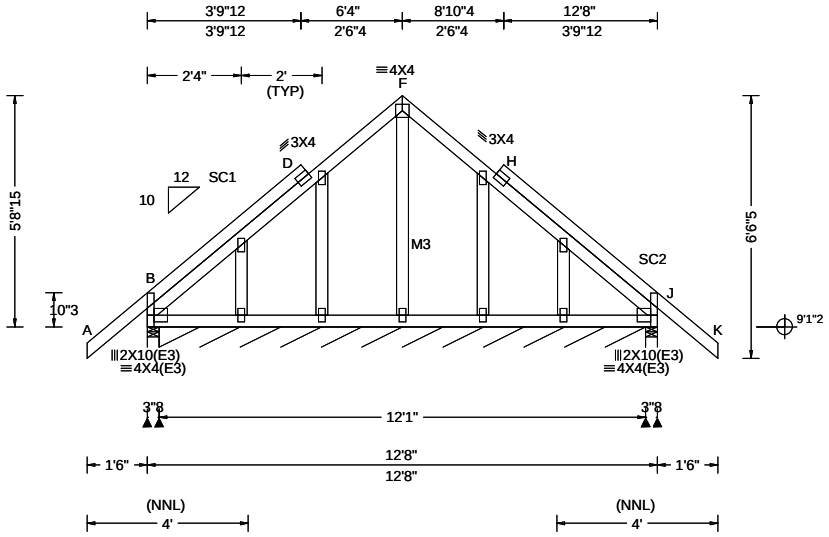
Key to Terms (continued):
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com

SEQN: 783205 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 24-1711 Ryan **Truss Label:** A01	Cust: R 215 JRef:1Y3I2150010 T10 DrwNo: 267.24.1617.50557 AK / DF 09/23/2024



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.001	D	999	240
VERT(CL): 0.002	D	999	180
HORZ(LL): 0.003	H	-	-
HORZ(TL): 0.003	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.264
Max BC CSI: 0.040
Max Web CSI: 0.897

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	292	/-	/-	/160	/44	/220
B*	59	/-	/-	/37	/8	/-
J	292	/-	/-	/193	/44	/-

Wind reactions based on MWFRS
B Brg Wid = 3.5 Min Req = 1.5 (Truss)
B Brg Wid = 145 Min Req = -
J Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings B, B, & J are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; M3 2x4 SP #2;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

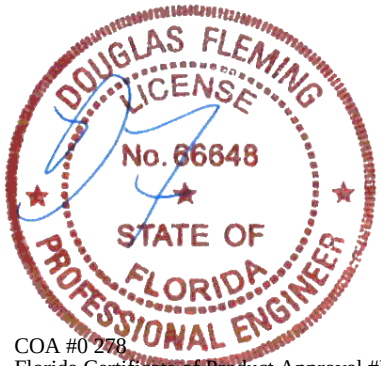
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/157.

Additional Notes

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

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

The overall height of this truss excluding overhang is 5-8-15.



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Florida Certificate of Product Approval #FL1999
09/24/2024

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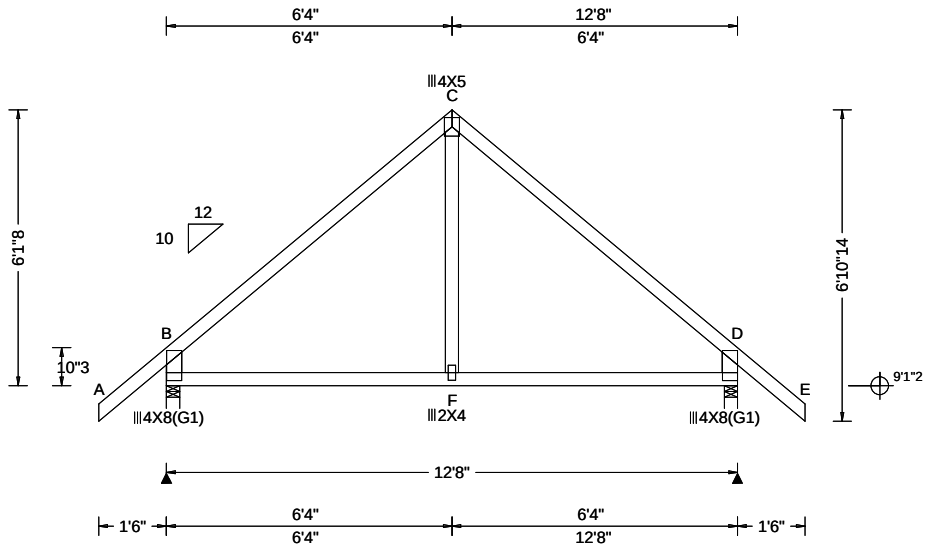
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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: 783209 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 24-1711 Ryan **Truss Label:** A02	Cust: R 215 JRef:1Y3I2150010 T1 DrwNo: 267.24.1617.51550 AK / DF 09/23/2024



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	F	999	240
VERT(CL): 0.018	F	999	180
HORZ(LL): 0.015	D	-	-
HORZ(TL): 0.022	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.500
Max BC CSI: 0.348
Max Web CSI: 0.107

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	740	/-	/-	/414	/99	/227
D	740	/-	/-	/414	/99	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	265	-678	C - D	265	-678

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - F	417	-62	F - D	417	-62

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #2;Rt Stub Wedge: 2x6 SP #2;

Loading

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

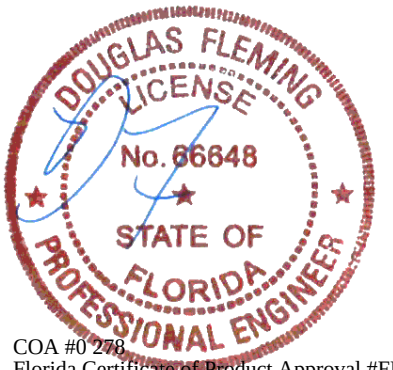
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-8.



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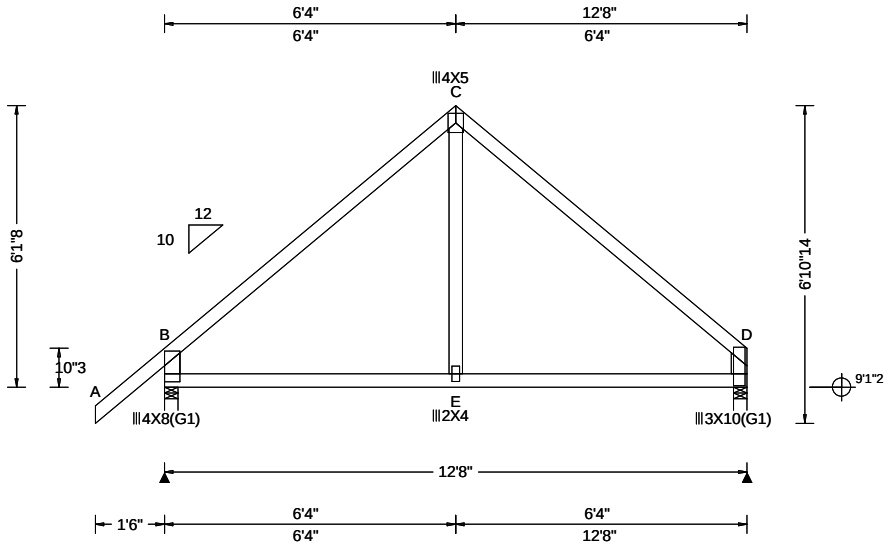
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 783207 COMN FROM: CDM	Ply: 1 Qty: 14	**Job Number:** 24-1711 Ryan **Truss Label:** A03	Cust: R 215 JRef:1Y3I2150010 T3 DrwNo: 267.24.1617.52357 AK / DF 09/23/2024



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	E	999	240
VERT(CL): 0.014	E	999	180
HORZ(LL): 0.015	D	-	-
HORZ(TL): 0.022	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.355
Max Web CSI: 0.110

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	746	/-	/-	/415	/100	/203
D	626	/-	/-	/315	/75	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	284	-691	C - D	275	-686

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - E	427	-43	E - D	427	-43

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Stub Wedge: 2x6 SP #2;Rt Stub Wedge: 2x6 SP #2;

Loading

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

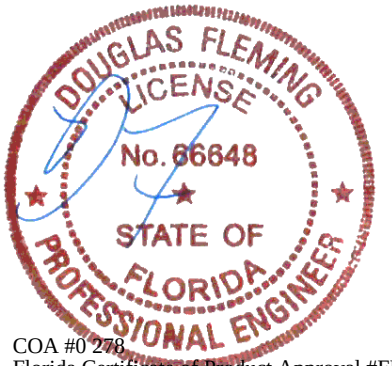
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-8.



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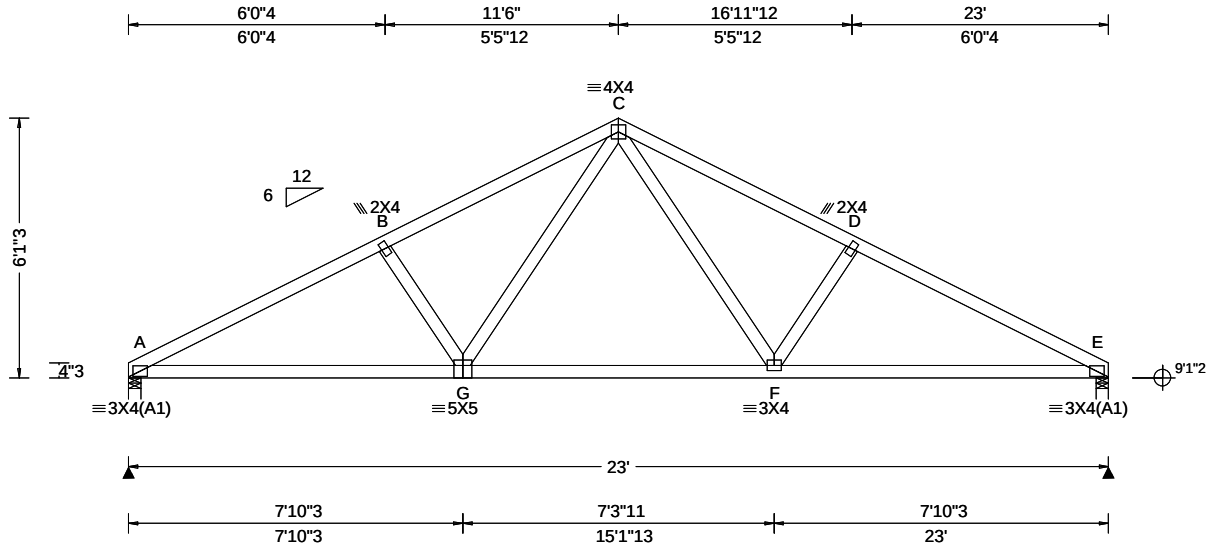
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783216 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** B01		Cust: R 215 JRef:1Y3I2150010 T9 DrwNo: 267.24.1617.53303 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.052	F	999	240
VERT(CL): 0.107	F	999	180
HORZ(LL): 0.021	E	-	-
HORZ(TL): 0.044	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.357
Max BC CSI: 0.615
Max Web CSI: 0.199

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	947	/-	/-	/546	/162	/148
E	947	/-	/-	/546	/162	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	407	- 1619	C - D	416	- 1435
B - C	417	- 1434	D - E	406	- 1620

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	1388	- 313	F - E	1389	- 294
G - F	933	- 143			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	520	- 116	C - F	521	- 116

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-3.

COA #0 278
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09/24/2024

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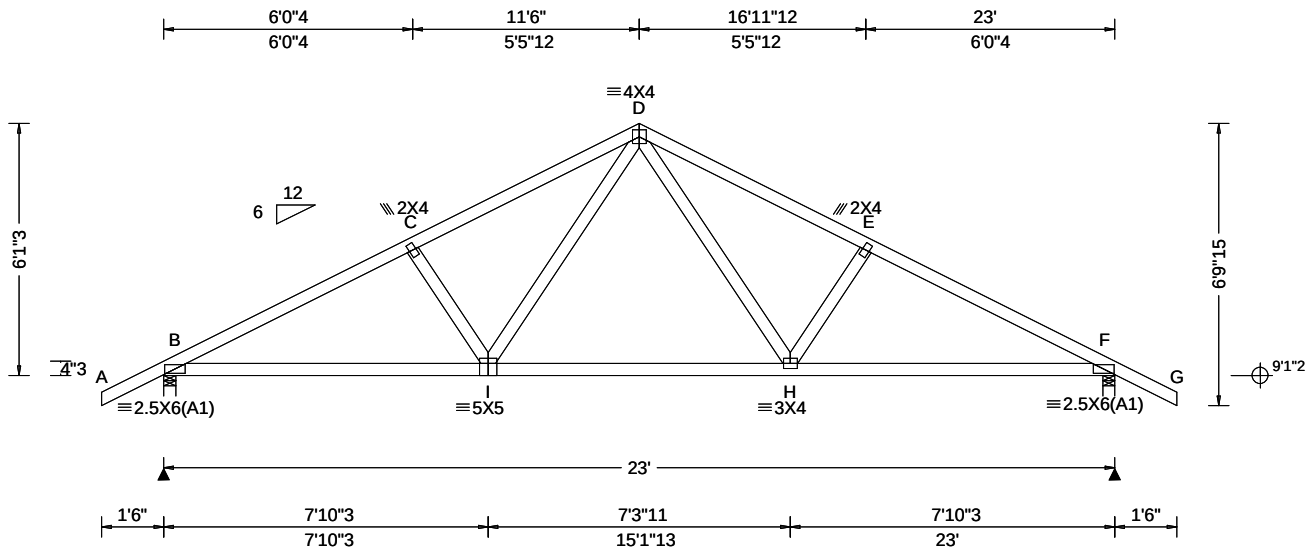
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783212 COMN FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 24-1711 Ryan **Truss Label:** B02		Cust: R 215 JRef:1Y3I2150010 T5 DrwNo: 267.24.1617.54350 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.062	H	999	240
VERT(CL): 0.119	H	999	180
HORZ(LL): 0.024	F	-	-
HORZ(TL): 0.047	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.312
Max BC CSI: 0.603
Max Web CSI: 0.213

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1093	/-	/-	/631	/26	/186
F	1093	/-	/-	/631	/26	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	385	- 1697	D - E	394	- 1515
C - D	394	- 1514	E - F	385	- 1698

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1451	- 250	H - F	1452	- 246
I - H	987	- 87			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	556	- 108	D - H	559	- 107

Lumber

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

Loading

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

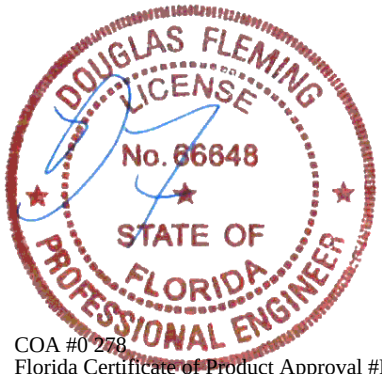
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-1-3.



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09/24/2024

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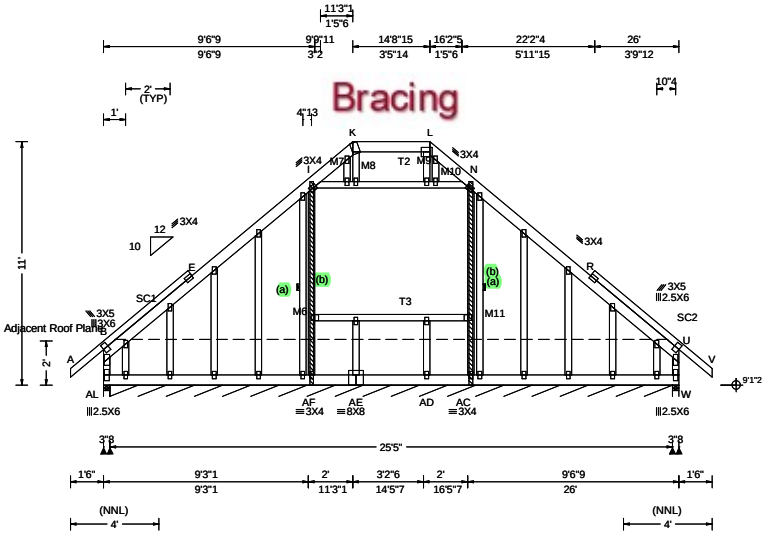
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783296 GABL	Ply: 1	**Job Number:** 24-1711		Cust: R 215 JRef:1Y3I2150010 T20	
FROM: CDM	Qty: 1	Ryan		DrwNo: 267.24.1617.55877	
Page 1 of 2		**Truss Label:** C01		AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	C	999	240
VERT(CL): 0.013	C	919	180
HORZ(LL): 0.123	M	-	-
HORZ(TL): 0.155	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.289
Max BC CSI: 0.117
Max Web CSI: 0.832

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AL	267	/-	/-	/490	/305	/344
AL*	148	/-	/-	/43	/27	/-
W	267	/-	/-	/479	/294	/-

Wind reactions based on MWFRS
AL Brg Wid = 3.5 Min Req = 1.5 (Truss)
AL Brg Wid = 305 Min Req = -
W Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AL, AL, & W are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - E	373	- 376

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
B -AL	242	- 417	U - W	232	- 408

Lumber

Top chord: 2x6 SP #2; T2,T3 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3; M6,M11 2x4 SP #2; M7,M8,M9, M10 2x4 SP M-31;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	66 plf at	-1.50 to	66 plf at	3.81
TC: From	33 plf at	3.81 to	33 plf at	22.19
TC: From	66 plf at	22.19 to	66 plf at	27.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	4.06
BC: From	10 plf at	4.06 to	10 plf at	21.94
BC: From	20 plf at	21.94 to	20 plf at	26.00
BC: From	5 plf at	26.00 to	5 plf at	27.50

BC: 263 lb Conc. Load at 4.06, 6.06, 8.06,10.06 12.06,13.94,15.94,17.94,19.94,21.94

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Purlins

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

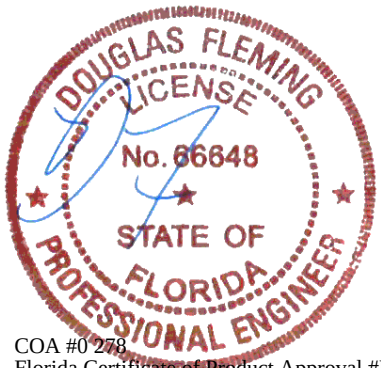
Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/178.



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09/24/2024

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Glenview, IL 60025

Gable Reinforcement

(b) 2x4 "T" reinforcement. Any species and grade. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.

Additional Notes

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

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

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

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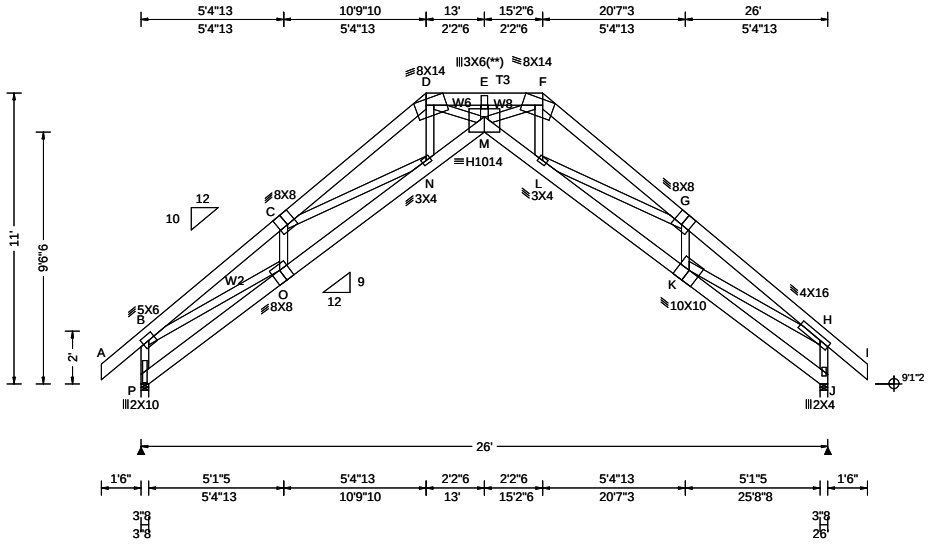
09/24/2024

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

SEQN: 783376 COMN FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 24-1711 Ryan **Truss Label:** C02		Cust: R 215 JRef:1Y3I2150010 T7 DrwNo: 267.24.1617.57607 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.340	M	917	240
VERT(CL): 0.756	M	412	180
HORZ(LL): 0.545	J	-	-
HORZ(TL): 1.213	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.449
Max BC CSI: 0.889
Max Web CSI: 0.989

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1290	/-	/-	/518	/91	/352
J	1290	/-	/-	/224	/83	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	855	-3230	E - F	1084	-6748
C - D	760	-3958	F - G	505	-3959
D - E	1084	-6748	G - H	297	-3226

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	257	-505	M - L	3579	-467
O - N	3042	-1122	L - K	3038	-285
N - M	3578	-802			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - P	452	-1224	E - M	885	-226
B - O	2600	-558	L - G	600	-171
O - C	173	-613	G - K	72	-613
C - N	595	-34	K - H	2595	-247
D - M	4100	-462	H - J	90	-1224
M - F	4099	-755			

Lumber

Top chord: 2x6 SP #2; T3 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3; W2,W6,W8 2x4 SP #2;

Plating Notes

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

Purlins

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

Wind

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

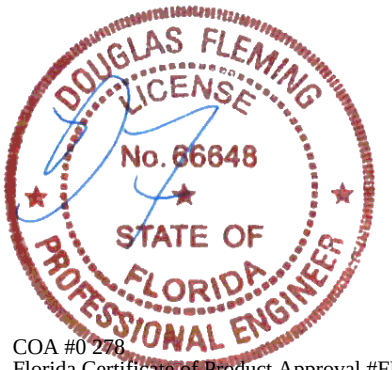
End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



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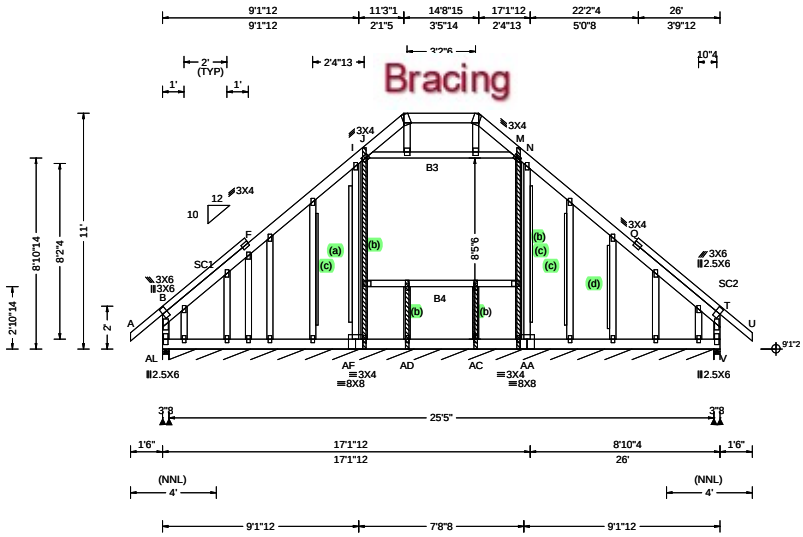
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783397 GABL FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** C04		Cust: R 215 JRef:1Y3I2150010 T4 DrwNo: 267.24.1618.00530 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.70 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.011	C	999	240
VERT(CL): 0.013	C	917	180
HORZ(LL): 0.157	T	-	-
HORZ(TL): 0.172	T	-	-

Creep Factor: 2.0
Max TC CSI: 0.253
Max BC CSI: 0.075
Max Web CSI: 0.991

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AL	269	/-	/-	/491	/307	/344
AL*	75	/-	/-	/43	/0	/-
V	269	/-	/-	/480	/295	/-

Wind reactions based on MWFRS
AL Brg Wid = 3.5 Min Req = 1.5 (Truss)
AL Brg Wid = 305 Min Req = -
V Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings AL, AL, & V are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - F	374	-377	M - N	423	-67
F - I	441	-148	N - Q	441	-148
I - J	422	-72			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
J - M	424	0

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
B -AL	243	-419	T - V	234	-409

Lumber

Top chord: 2x6 SP #2;
Bot chord: 2x6 SP #2; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Purlins

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

Wind

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

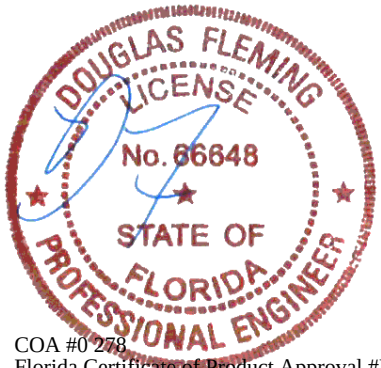
End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/190.

Gable Reinforcement

(a) 2x4 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(b) 2x3 "T" reinforcement. Any species and grade. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.
(c) 1x4 "L" reinforcement. Same species and grade as web. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.
(d) 1x4 "L" reinforcement. Any species and grade. 80% length of web member. Attach with 10d (0.131"x3",min.) nails @ 2" oc at each end for the first 18" and then 4" oc for the remainder.



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09/24/2024

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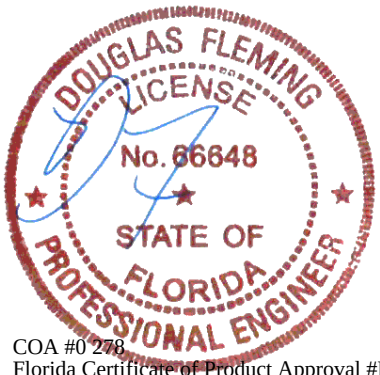
Additional Notes

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

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

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



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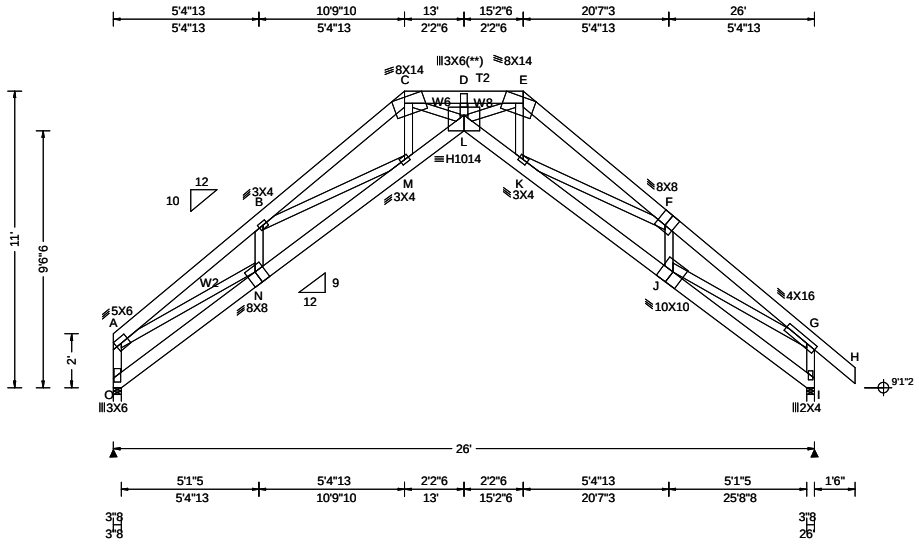
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783380 COMN FROM: CDM	Ply: 1 Qty: 11	**Job Number:** 24-1711 Ryan **Truss Label:** C03	Cust: R 215 JRef:1Y3I2150010 T12 DrwNo: 267.24.1618.02297 AK / DF 09/23/2024	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.338 L 922 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.760 L 410 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.542 I - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 1.219 I - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.452
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.894
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.992
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, HS	VIEW Ver: 23.02.04.0123.14
		Wind Duration: 1.60		

Lumber

Top chord: 2x6 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #3; W2,W6,W8 2x4 SP #2;

Plating Notes

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

Purlins

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

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1180	/-	/-	/423	/69	/316
I	1293	/-	/-	/224	/82	/-

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

Maximum Top Chord Forces Per Ply (lbs)

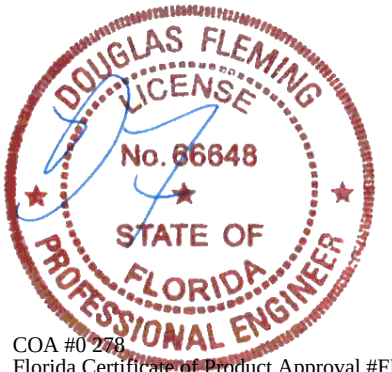
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	834	- 3268	D - E	1064	- 6784
B - C	746	- 3982	E - F	495	- 3976
C - D	1065	- 6784	F - G	291	- 3236

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	203	- 419	L - K	3594	- 458
N - M	3090	- 1113	K - J	3048	- 280
M - L	3598	- 787			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - O	335	- 1116	D - L	887	- 220
A - N	2638	- 600	K - F	606	- 168
N - B	185	- 625	F - J	71	- 616
B - M	572	- 44	J - G	2603	- 243
C - L	4121	- 455	G - I	89	- 1227
L - E	4124	- 742			



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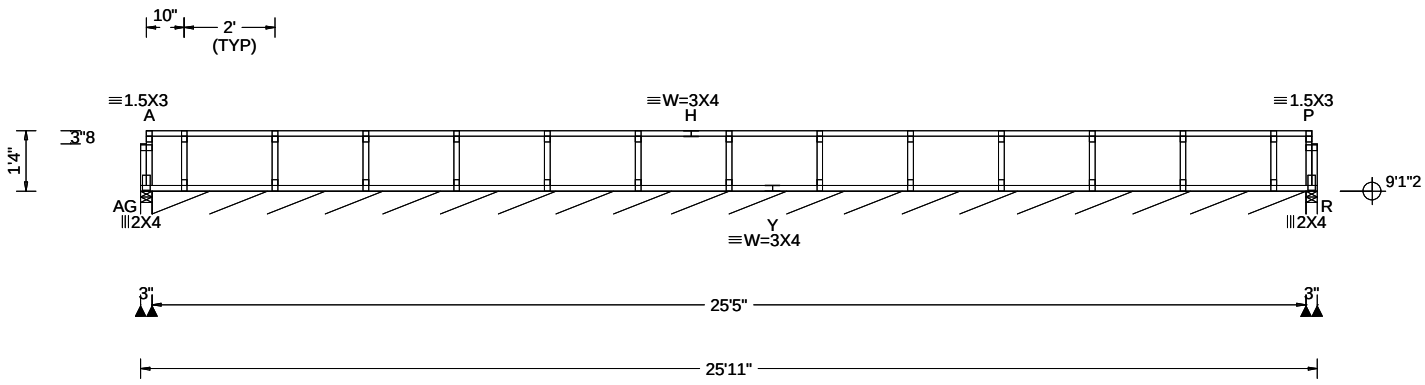
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783325 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F01	Cust: R 215 JRef:1Y3I2150010 T6 DrwNo: 267.24.1618.04760 AK / DF 09/23/2024



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	C	999	480
VERT(CL): 0.000	C	999	360
HORZ(LL): -0.000	R	-	-
HORZ(TL): 0.000	R	-	-

Creep Factor: 2.0
Max TC CSI: 0.180
Max BC CSI: 0.043
Max Web CSI: 0.047

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AG	16	/-	/-	/-	/-	/-
AG	*110	/-	/-	/-	/-	/-
R	16	/-	/-	/-	/-	/-

AG Brg Wid = 3.0 Min Req = 1.5 (Truss)
AG Brg Wid = 305 Min Req = -
R Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings AG, AG, & R are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

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

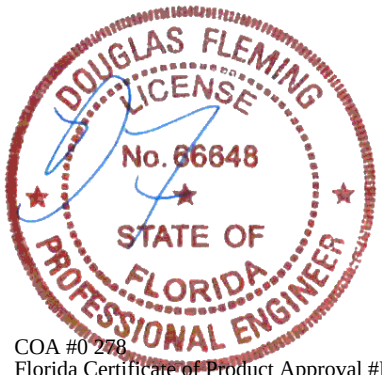
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 1.5X3 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.



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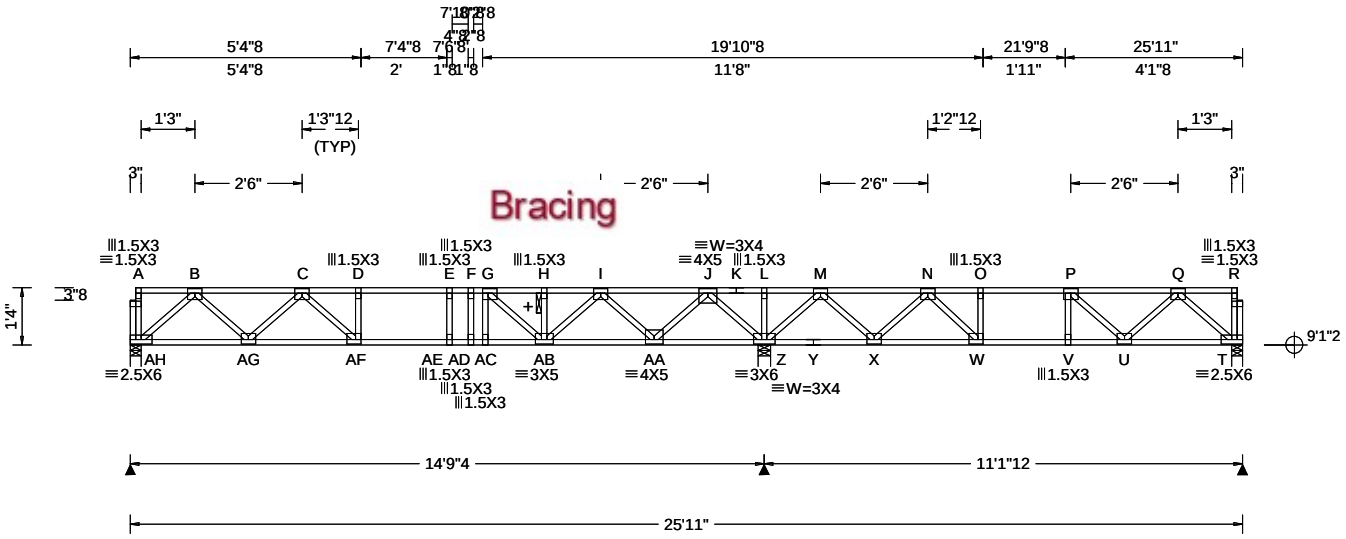
Glenview, IL 60025

SEQN: 783409 SY42 FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 24-1711 Ryan **Truss Label:** F02		Cust: R 215 JRef:1Y3I2150010 T24 DrwNo: 267.24.1618.06303 AK / DF 09/23/2024	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.142 D 999 480
BCLL:	0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.223 D 785 360
BCDL:	5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.032 B - -
Des Ld:	55.00	EXP: NA Kzt: NA		HORZ(TL): 0.050 B - -
NCBCLL:	10.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit:	0.00	TCDL: NA psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.768
Load Duration:	1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.926
Spacing:	24.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.433
		C&C Dist a: NA	FT/RT:12(0)/10(0)	
		Loc. from endwall: NA	Plate Type(s):	
		I: NA GCpi: NA	WAVE	VIEW Ver: 23.02.04.0123.14
		Wind Duration: NA		

Lumber

Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Plating Notes

All plates are 3X4 except as noted.

Additional Notes

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.

Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
AH	749	/-	/-	/-	/-	/-
Z	1632	/-	/-	/-	/-	/-
T	576	/-	/-	/-	/-	/-

AH Brg Wid = 3.0 Min Req = 1.5 (Truss)
Z Brg Wid = 3.5 Min Req = 1.5 (Truss)
T Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings AH, Z, & T are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

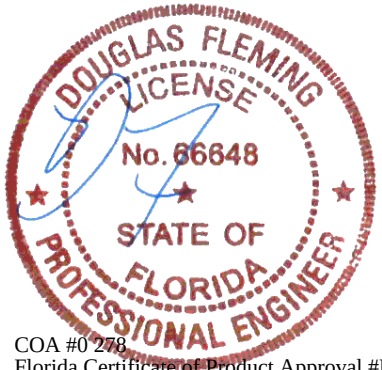
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1209	J - K	1298	0
C - D	0	-1926	K - L	1298	0
D - E	0	-1937	L - M	1298	0
E - F	0	-1937	M - N	456	-613
F - G	0	-1937	N - O	57	-1123
G - H	0	-1626	O - P	51	-1129
H - I	0	-1626	P - Q	0	-849
I - J	92	-638			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AH-AG	739	0	AA- Z	19	-513
AG-AF	1661	0	Z - Y	224	-652
AF-AE	1937	0	Y - X	224	-652
AE-AD	1937	0	X - W	981	-253
AD-AC	1937	0	W - V	1129	-51
AC-AB	1932	0	V - U	1129	-47
AB-AA	1238	0	U - T	547	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AH- B	0	-1006	J - Z	0	-1219
B -AG	655	0	Z - M	0	-983
AG- C	0	-628	M - X	667	0
C -AF	497	0	X - N	0	-687
G -AB	3	-666	N - W	570	0
AB- I	567	0	P - U	124	-388
I -AA	0	-881	U - Q	420	-25
AA- J	910	0	Q - T	0	-746



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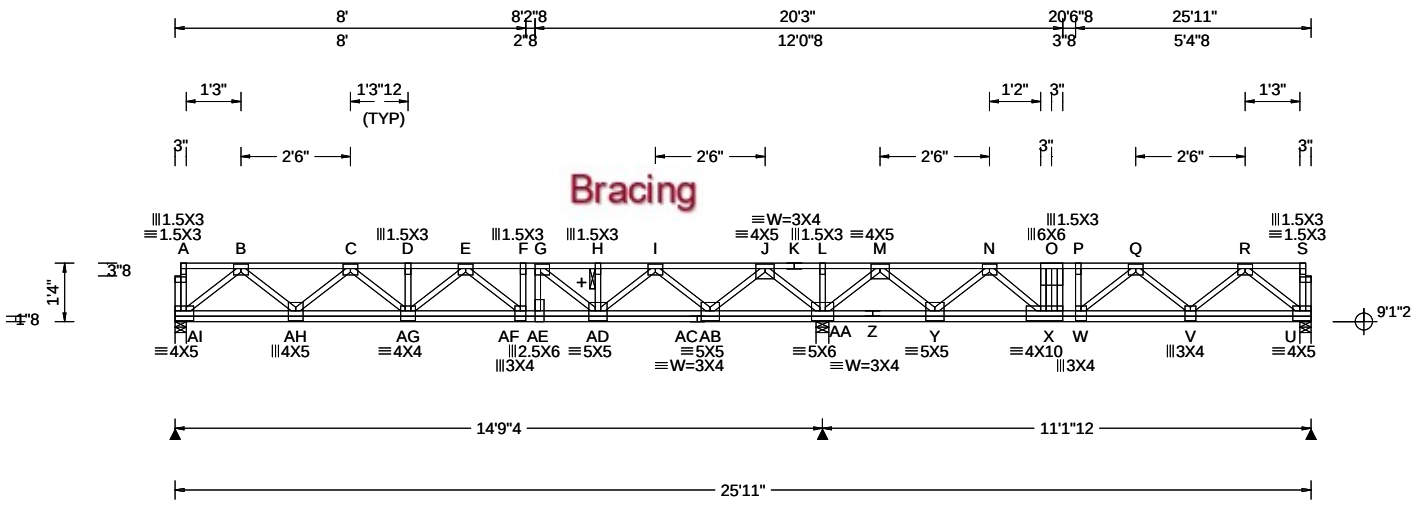
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783385 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F03		Cust: R 215 JRef:1Y3I2150010 T25 DrwNo: 267.24.1618.15810 AK / DF 09/23/2024	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.101 E 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.148 AF 999 360
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.017 B - -
Des Ld: 55.00	EXP: NA Kzt: NA		HORZ(TL): 0.025 B - -
NCBCLL: 10.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.724
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.328
Spacing: 24.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.492
	C&C Dist a: NA	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	VIEW Ver: 23.02.04.0123.14
	I: NA GCpi: NA	WAVE	
	Wind Duration: NA		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AI	724	/-	/-	/-	/-	/-
AA	1923	/-	/-	/-	/-	/-
U	548	/-	/-	/-	/-	/-

AI Brg Wid = 3.0 Min Req = 1.5 (Truss)
AA Brg Wid = 3.5 Min Req = 1.5 (Truss)
U Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings AI, AA, & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1220	J - K	1781	0
C - D	0	-1882	K - L	1781	0
D - E	0	-1882	L - M	1781	0
E - F	0	-1851	M - N	691	-390
F - G	0	-1850	N - O	232	-1131
G - H	0	-1505	O - P	227	-1149
H - I	0	-1505	P - Q	223	-1150
I - J	250	-405	Q - R	8	-858

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AI-AH	748	0	AB-AA	0	-815
AH-AG	1667	0	AA- Z	0	-928
AG-AF	1960	0	Z - Y	0	-928
AF-AE	1850	0	Y - X	823	-453
AE-AD	1844	0	X - W	1149	-227
AD-AC	1067	-40	W - V	1125	-82
AC-AB	1067	-40	V - U	563	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AI- B	0	-995	J -AA	0	-1282
B -AH	641	0	AA- M	0	-1316
AH- C	0	-605	M - Y	1033	0
G -AD	0	-554	Y - N	0	-1023
AD- I	654	0	N - X	531	0
I -AB	0	-972	V - R	400	-37
AB- J	978	0	R - U	0	-748

Lumber

Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.12 to 100 plf at 25.79
BC: From 10 plf at 0.00 to 10 plf at 25.92
TC: 310 lb Conc. Load at 19.44

Plating Notes

All plates are 3X4 except as noted.

Additional Notes

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.

Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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

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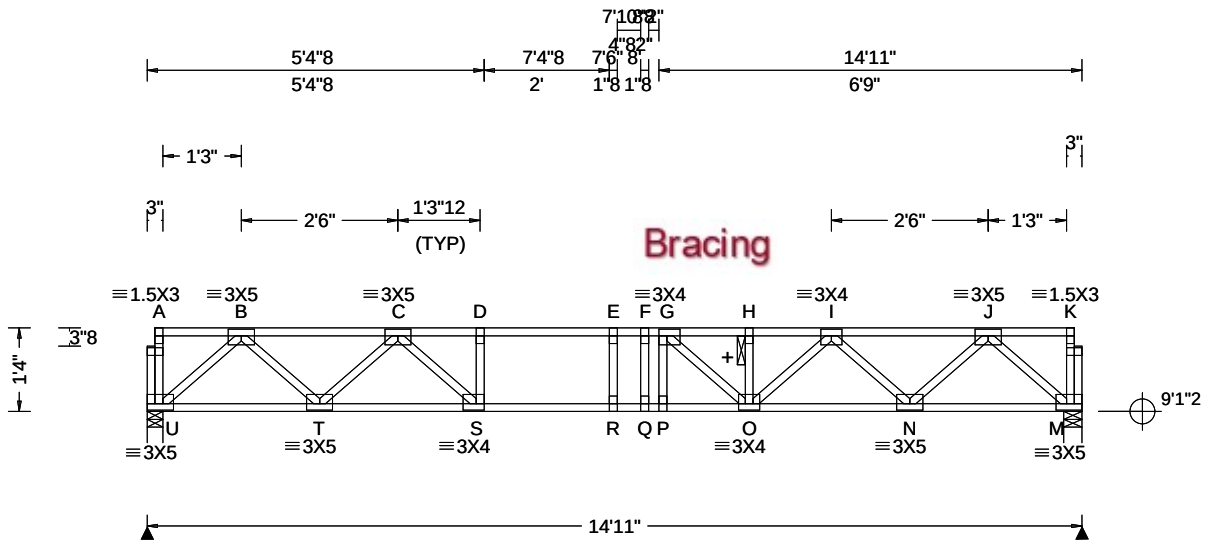
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783352 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F04		Cust: R 215 JRef:1Y3I2150010 T22 DrwNo: 267.24.1618.19213 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.175	P	997	480
VERT(CL): 0.278	P	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.031	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.333
Max BC CSI: 0.419
Max Web CSI: 0.363

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	808	/-	/-	/-	/-	/-
M	808	/-	/-	/-	/-	/-

U Brg Wid = 3.0 Min Req = 1.5 (Truss)
M Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings U & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1349	F - G	0	-2321
C - D	0	-2306	G - H	0	-2201
D - E	0	-2321	H - I	0	-2201
E - F	0	-2321	I - J	0	-1363

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	814	0	Q - P	2321	0
T - S	1892	0	P - O	2322	0
S - R	2321	0	O - N	1885	0
R - Q	2321	0	N - M	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
U - B	0	-1106	O - I	429	0
B - T	745	0	I - N	0	-726
T - C	0	-755	N - J	762	0
C - S	742	0	J - M	0	-1109
G - O	263	-471			

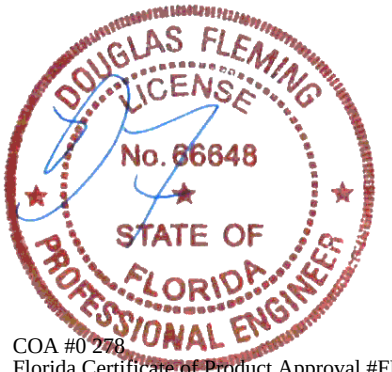
Lumber
Top chord: 4x2 SP M-31;
Bot chord: 4x2 SP M-31;
Webs: 4x2 SP #3;

Plating Notes
All plates are 1.5X3 except as noted.

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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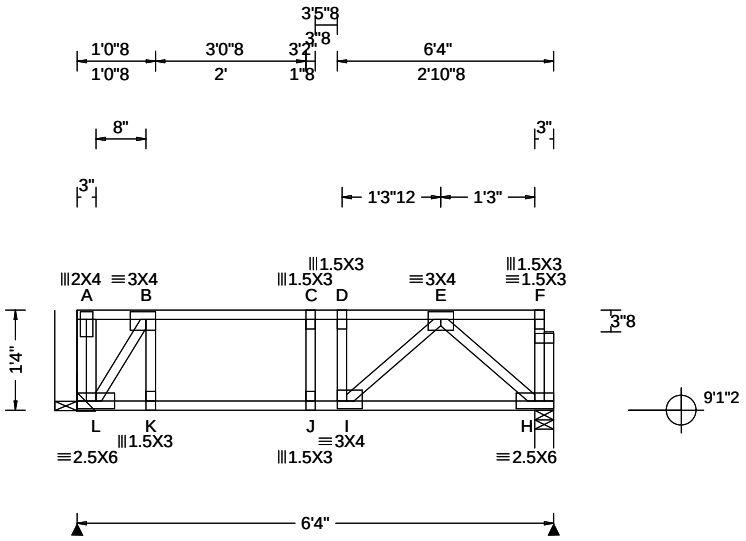
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783390 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F05	Cust: R 215 JRef:1Y3I2150010 T18 DrwNo: 267.24.1618.21907 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.074	D	959	480
VERT(CL): 0.104	D	678	360
HORZ(LL): -0.030	E	-	-
HORZ(TL): 0.042	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.803
Max BC CSI: 0.523
Max Web CSI: 0.150

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	352	/-	/-	/-	/-	/-
H	341	/-	/-	/-	/-	/-

L Brg Wid = - Min Req = -
H Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	0	-648	E - H	0	-377

Lumber

Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Hangers / Ties

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

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

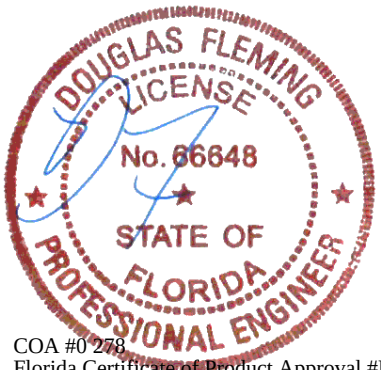
Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=0' uses the following support conditions: 0'
Bearing L (0', 9'1"2) THAC422
Supporting Member: (1)4x2 SP #2
(2) 0.148"x1.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x1.5" nails into supported member.

Additional Notes

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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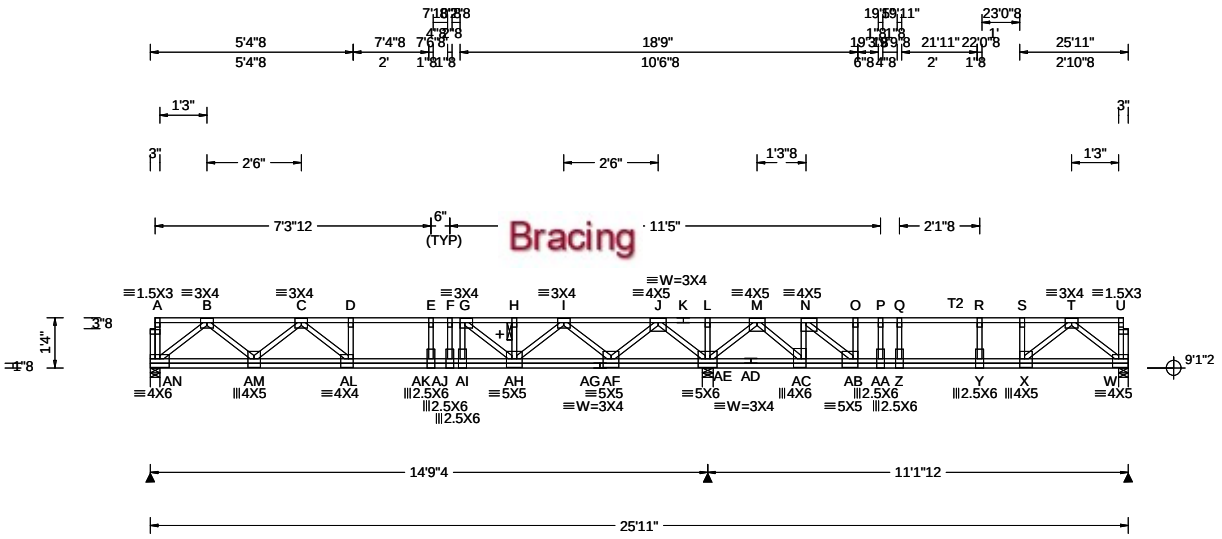
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783387 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F06	Cust: R 215 JRef:1Y3I2150010 T13 DrwNo: 267.24.1618.28080 AK / DF 09/23/2024



Loading Criteria (psf)
TCLL: 40.00
TCDL: 10.00
BCLL: 0.00
BCDL: 5.00
Des Ld: 55.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	AJ	999	480
VERT(CL): 0.214	AI	819	360
HORZ(LL): 0.024	B	-	-
HORZ(TL): 0.037	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.628
Max Web CSI: 0.597

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AN	792	/-	/-	/-	/-	/-
AE	1920	/-	/-	/-	/-	/-
W	587	/-	/-	/-	/-	/-

AN Brg Wid = 3.0 Min Req = 1.5 (Truss)
AE Brg Wid = 3.5 Min Req = 1.5 (Truss)
W Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings AN, AE, & W are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-1358	K - L	1597	0
C - D	0	-2267	L - M	1597	0
D - E	0	-2279	M - N	220	-514
E - F	0	-2279	N - O	0	-1131
F - G	0	-2279	O - P	0	-1155
G - H	0	-2066	P - Q	0	-1155
H - I	0	-2066	Q - R	0	-1155
I - J	270	-1110	R - S	0	-1155
J - K	1597	0	S - T	0	-1138

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AN-AM	822	0	AE-AD	176	-630
AM-AL	1902	0	AD-AC	176	-630
AL-AK	2279	0	AC-AB	567	-196
AK-AJ	2279	0	AB-AA	1155	0
AJ-AI	2279	0	AA- Z	1155	0
AI-AH	2277	0	Z - Y	1155	0
AH-AG	1701	-60	Y - X	1155	0
AG-AF	1701	-60	X - W	611	0
AF-AE	510	-658			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
AN- B	0	-1094	J -AE	0	-1246
B -AM	727	0	AE- M	0	-1284
AM- C	0	-738	M -AC	1041	0
C -AL	582	-16	AC- N	0	-868
G -AH	139	-735	N -AB	1253	0
AH- I	622	0	AB- O	0	-440
I -AF	0	-948	X - T	716	0
AF- J	958	0	T - W	0	-811

Lumber

Top chord: 4x2 SP #2; T2 4x2 SP M-31;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.12 to 100 plf at 25.79
BC: From 10 plf at 0.00 to 10 plf at 25.92
TC: 359 lb Conc. Load at 19.44

Plating Notes

All plates are 1.5X3 except as noted.

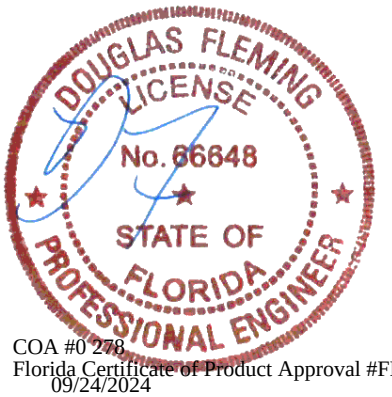
Additional Notes

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

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.

Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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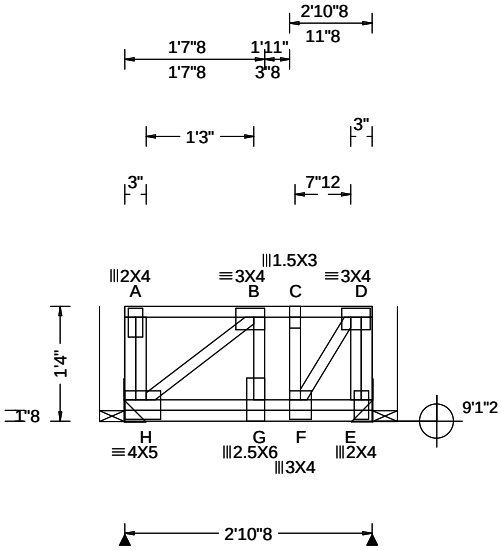
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783382 SY42 FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F07	Cust: R 215 JRef:1Y3I2150010 T21 DrwNo: 267.24.1618.30977 AK / DF 09/23/2024



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.008 B 999 480 VERT(CL): 0.010 B 999 360 HORZ(LL): 0.004 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.146 Max BC CSI: 0.133 Max Web CSI: 0.185 VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	310	/-	/-	/-	/-	/-
E	359	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
E Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
F - D	389	0

Lumber

Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

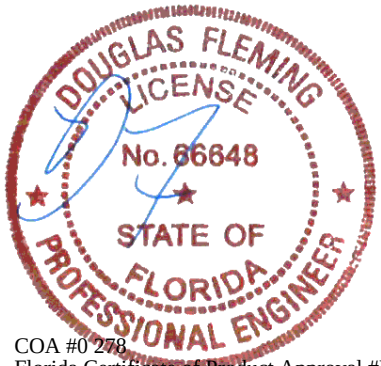
Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 100 plf at 0.00 to 100 plf at 2.88
BC: From 10 plf at 0.00 to 10 plf at 2.88
TC: 352 lb Conc. Load at 1.60

Additional Notes

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.



COA #0 278
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North Building, 4th Floor
Glenview, IL 60025

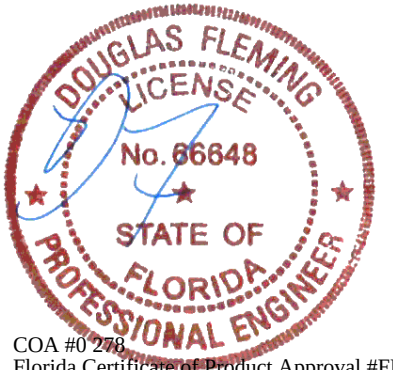
Hangers / Ties

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

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

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

Bearing at location x=0' ,y=9'1"2 uses the following support conditions: 0'
Bearing H (0', 9'1"2) THAC422
Supporting Member: (1)4x2 SP #2
(2) 0.148"x1.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x1.5" nails into supported member.
Bearing E (2'7"8, 9'1"2) THAC422
Supporting Member: (1)4x2 SP #2
(2) 0.148"x1.5" nails into supporting member,
(4) 0.148"x1.5" nails in flange and
(6) 0.148"x1.5" nails into supported member.



COA #0 278
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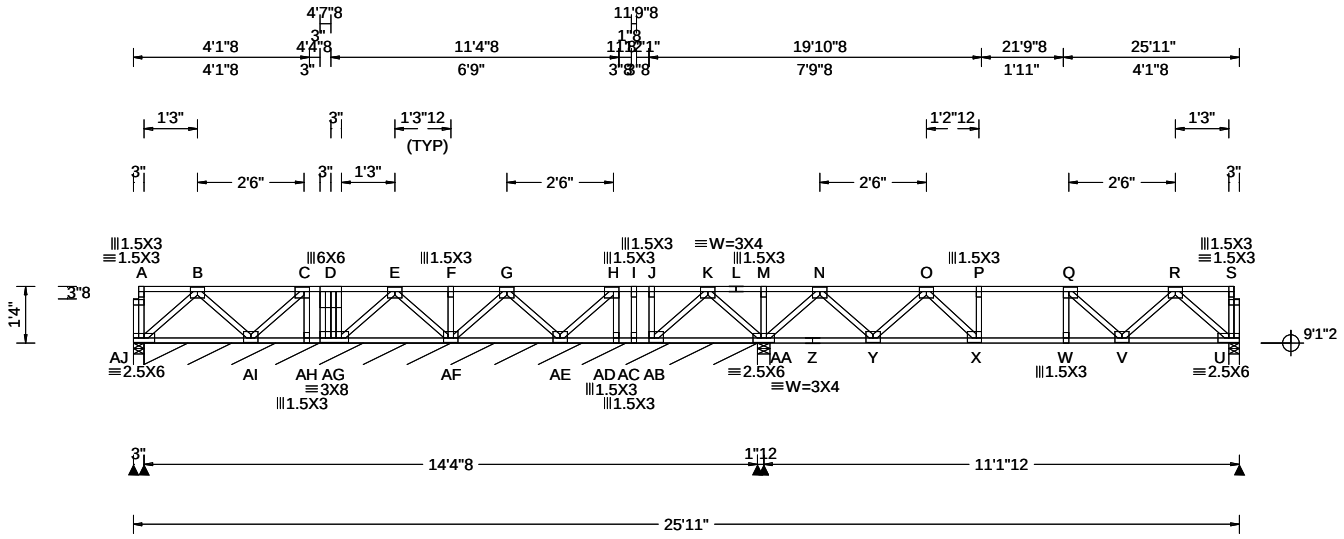
09/24/2024

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

SEQN: 783322 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F08		Cust: R 215 JRef:1Y3I2150010 T23 DrwNo: 267.24.1618.34553 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	10.00
BCLL:	0.00
BCDL:	5.00
Des Ld:	55.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 24.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.051	W	999	480
VERT(CL): 0.075	W	999	360
HORZ(LL): 0.008	U	-	-
HORZ(TL): 0.011	U	-	-

Creep Factor: 2.0
Max TC CSI: 0.387
Max BC CSI: 0.415
Max Web CSI: 0.268

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
AJ	155	/-	/-	/-	/-	/-
AJ*	90	/-	/-	/-	/-	/-
AA	1002	/-	/-	/-	/-	/-
U	559	/-	/-	/-	/-	/-
AB		/-184				

AJ Brg Wid = 3.0 Min Req = 1.5 (Truss)
AJ Brg Wid = 172 Min Req = -
AA Brg Wid = 3.5 Min Req = 1.5 (Truss)
U Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings AJ, AJ, AA, & U are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - L	739	0	O - P	0	-1055
L - M	739	0	P - Q	0	-1063
M - N	739	0	Q - R	0	-813
N - O	0	-496			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB-AA	10	-495	W - V	1063	0
Y - X	885	0	V - U	532	0
X - W	1063	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K -AA	0	-410	Y - O	0	-542
AA- N	0	-883	V - R	391	0
N - Y	563	0	R - U	0	-725

Lumber
Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Plating Notes
All plates are 3X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.

Note: Truss not designed to be installed in reverse orientation. Truss must be installed as shown.

COA #0 278
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09/24/2024

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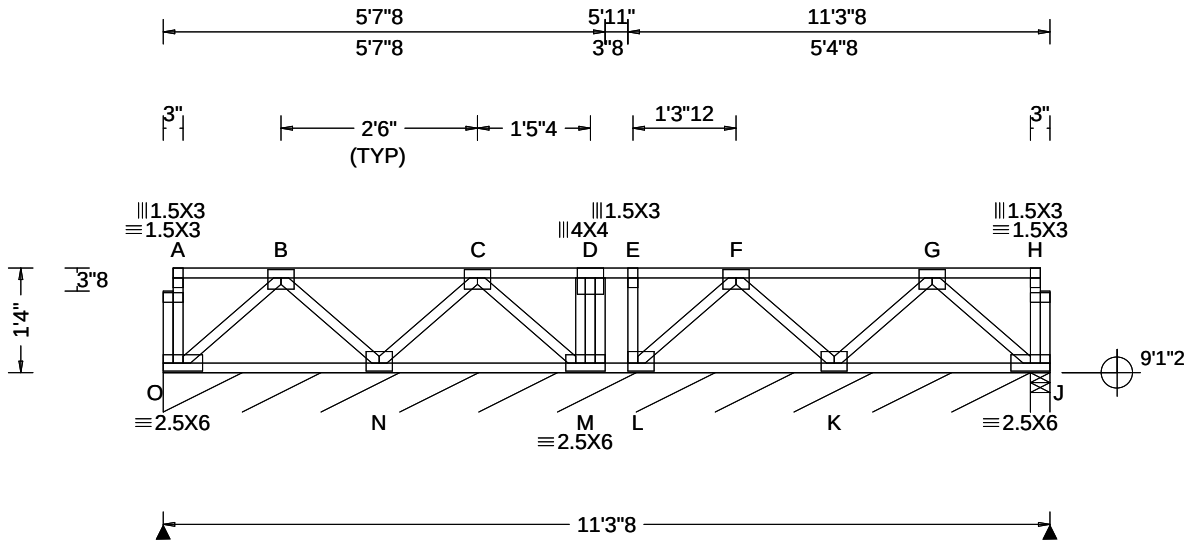
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783313 SY42 FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** F09		Cust: R 215 JRef:1Y3I2150010 T11 DrwNo: 267.24.1618.36457 AK / DF 09/23/2024	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 C 999 480 VERT(CL): 0.003 C 999 360 HORZ(LL): 0.001 J - - HORZ(TL): 0.002 J - - Creep Factor: 2.0 Max TC CSI: 0.249 Max BC CSI: 0.120 Max Web CSI: 0.045 VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O*	97	/-	/-	/-	/-	/-
J	146	/-	/-	/-	/-	/-

O Brg Wid = 132 Min Req = -
J Brg Wid = 3.0 Min Req = 1.5 (Truss)
Bearings O & J are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SP #2;
Bot chord: 4x2 SP #2;
Webs: 4x2 SP #3;

Plating Notes

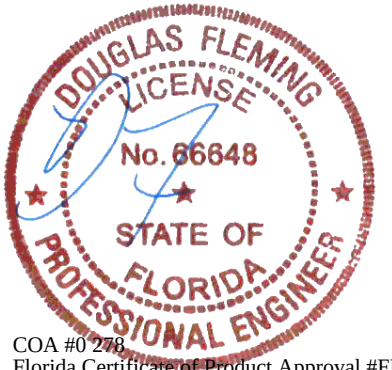
All plates are 3X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1-4-0.



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09/24/2024

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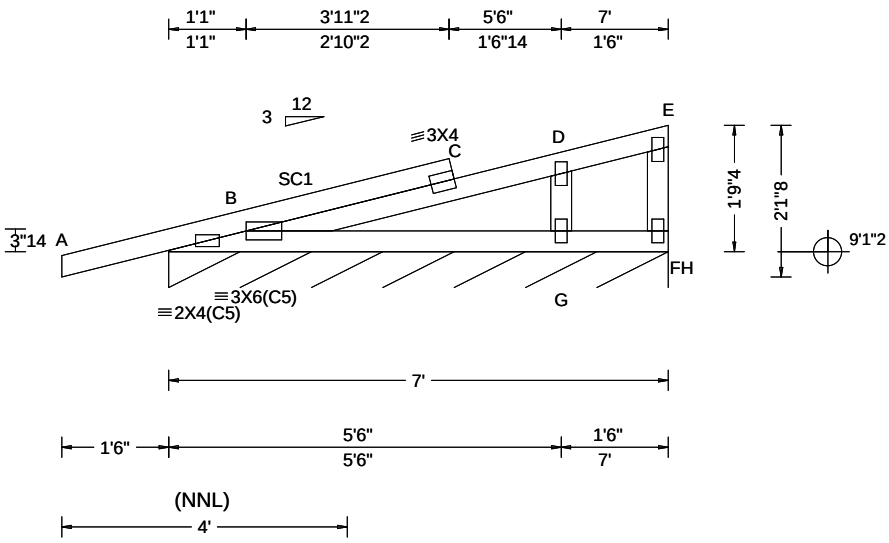
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783265 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 24-1711 Ryan **Truss Label:** J01	Cust: R 215 JRef:1Y3I2150010 T19 DrwNo: 267.24.1618.38233 AK / DF 09/23/2024	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.015 C 999 240 VERT(CL): 0.028 C 999 180 HORZ(LL): 0.002 C - - HORZ(TL): 0.004 C - - Creep Factor: 2.0 Max TC CSI: 0.352 Max BC CSI: 0.168 Max Web CSI: 0.048 VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H*	94	/-	/-	/50	/18	/10

Wind reactions based on MWFRS
H Brg Wid = 84.0 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.
D - G	411 - 261

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

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

Right end vertical not exposed to wind pressure.

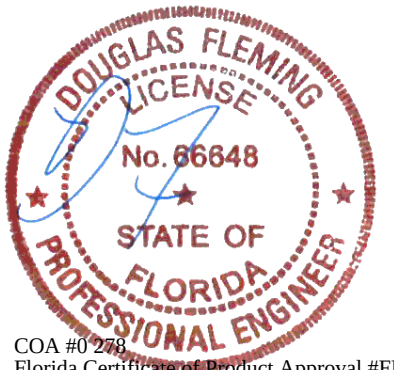
Wind loading based on both gable and hip roof types.

Additional Notes

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.

The overall height of this truss excluding overhang is 1-9-4.

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



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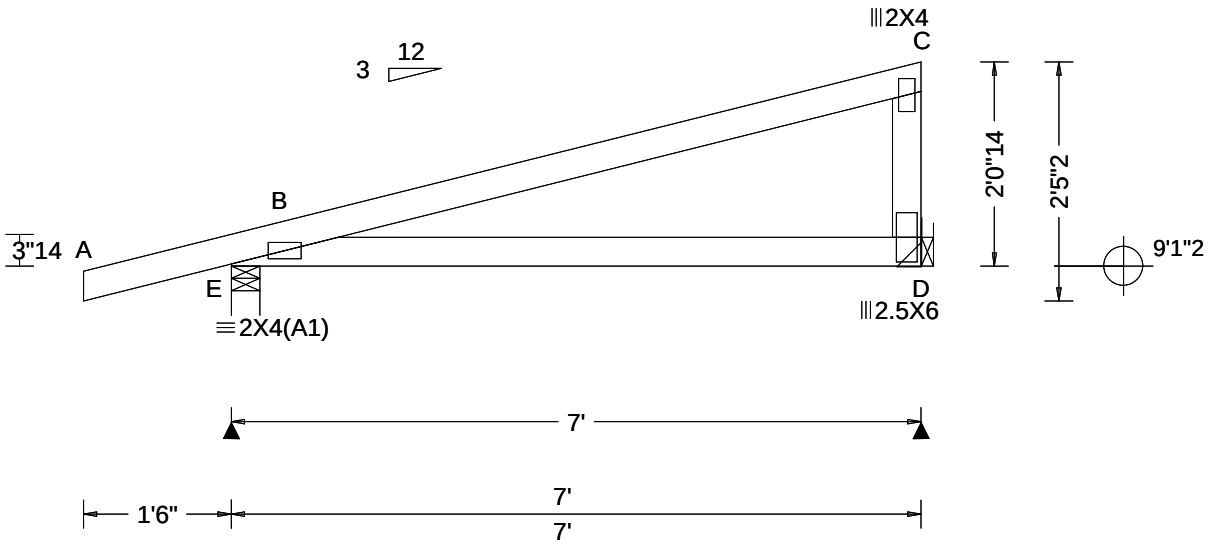
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783267 MONO FROM: CDM	Ply: 1 Qty: 10	**Job Number:** 24-1711 Ryan **Truss Label:** J02	Cust: R 215 JRef:1Y3I2150010 T2 DrwNo: 267.24.1618.50190 AK / DF 09/23/2024



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.026 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.615
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.437
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.278
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 23.02.04.0123.14
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	398	/-	/-	/217	/94	/73
D	263	/-	/-	/140	/56	/-

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

Lumber

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

Hangers / Ties

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

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

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

Bearing at location x=6'9" uses the following support conditions: 6'9"
Bearing D (6'9", 9'1"2) LUS26
Supporting Member: (1)2x6 SP #2
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

Additional Notes

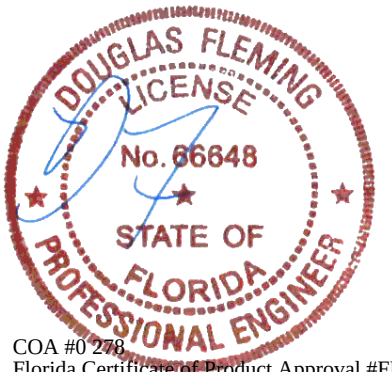
The overall height of this truss excluding overhang is 2-0-14.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



COA #0 278
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09/24/2024

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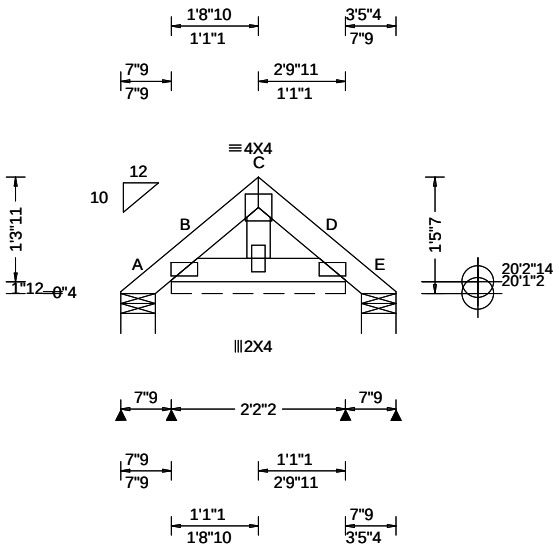
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783411 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** PB01		Cust: R 215 JRef:1Y3I2150010 T58 DrwNo: 267.24.1618.54073 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.70 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.000	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.012
Max BC CSI: 0.006
Max Web CSI: 0.006

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	20	/-	/-	/34	/20	/38
B*	101	/-	/-	/69	/14	/-
E	20	/-	/-	/16	/5	/-

Wind reactions based on MWFRS
A Brg Wid = 5.2 Min Req = 1.5 (Truss)
B Brg Wid = 26.1 Min Req = -
E Brg Wid = 5.2 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.

Loading

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

Wind

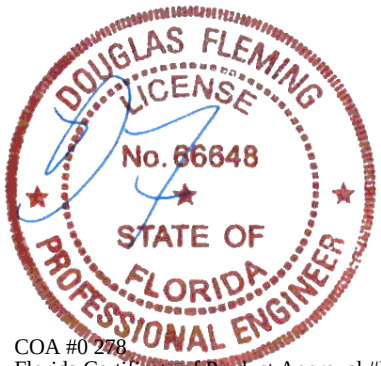
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160220723 for piggyback details.

The overall height of this truss excluding overhang is 1-5-7.



COA #0 278
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09/24/2024

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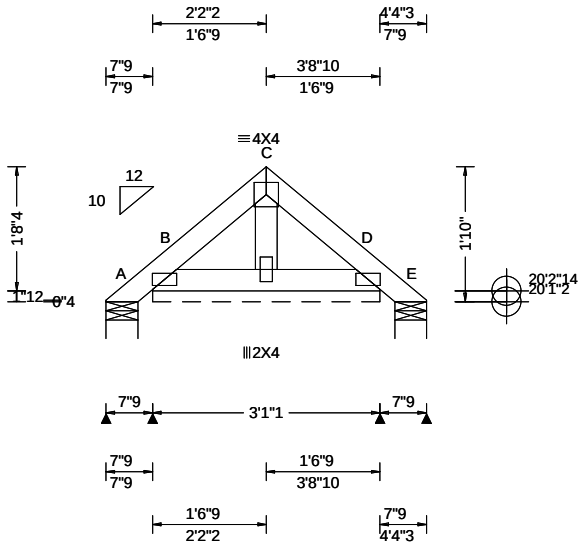
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783413 COMN FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 24-1711 Ryan **Truss Label:** PB02	Cust: R 215 JRef:1Y3I2150010 T8 DrwNo: 267.24.1618.55443 AK / DF 09/23/2024



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.89 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.000	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.022
Max BC CSI: 0.014
Max Web CSI: 0.008

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	14	/-	/-	/42	/31	/50
B*	101	/-	/-	/68	/17	/-
E	14	/-	/-	/9	/-	/-

Wind reactions based on MWFRS
A Brg Wid = 5.2 Min Req = 1.5 (Truss)
B Brg Wid = 37.1 Min Req = -
E Brg Wid = 5.2 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.

Loading

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

Wind

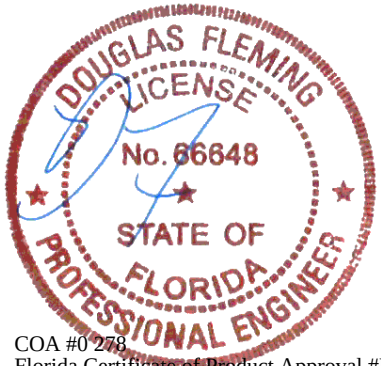
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160220723 for piggyback details.

The overall height of this truss excluding overhang is 1-10-0.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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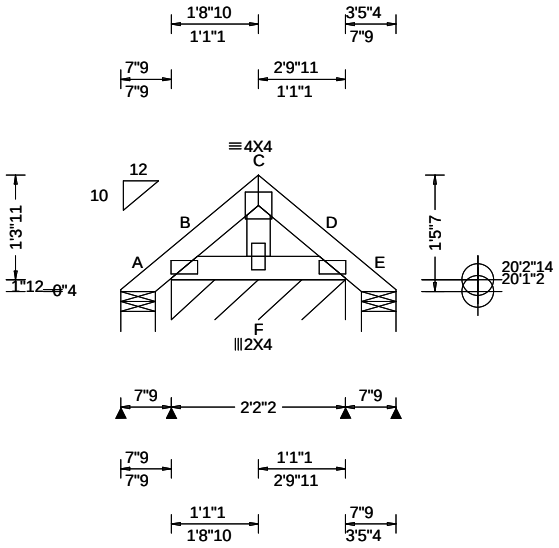
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783417 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** PB03	Cust: R 215 JRef:1Y3I2150010 T17 DrwNo: 267.24.1618.58180 AK / DF 09/23/2024



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.83 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): 0.000	D	-	-
HORZ(TL): 0.000	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.021
Max BC CSI: 0.008
Max Web CSI: 0.006

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	15	/-	/-	/30	/23	/39
B*	98	/-	/-	/65	/23	/-
E	15	/-	/-	/11	/10	/-

Wind reactions based on MWFRS
A Brg Wid = 5.2 Min Req = 1.5 (Truss)
B Brg Wid = 26.1 Min Req = -
E Brg Wid = 5.2 Min Req = 1.5 (Truss)
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(A1) except as noted.

Wind

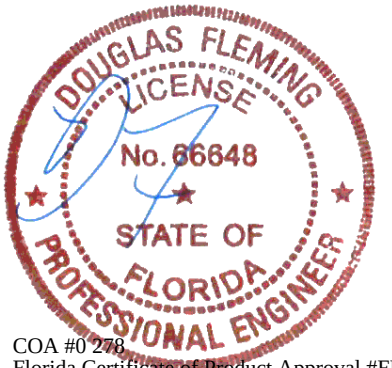
Wind loads based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-5-7.

See Detail PB160220723 for piggyback details.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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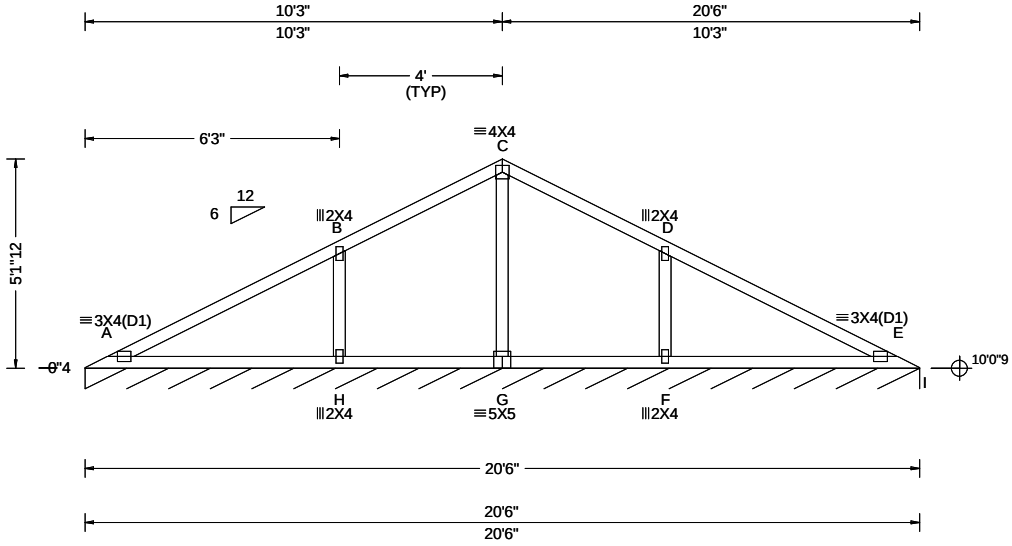
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783252 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** V01	Cust: R 215 JRef:1Y3I2150010 T14 DrwNo: 267.24.1619.11197 AK / DF 09/23/2024	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.025	A	999	240
VERT(CL): 0.051	A	999	180
HORZ(LL): -0.009	E	-	-
HORZ(TL): 0.018	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.512
Max BC CSI: 0.298
Max Web CSI: 0.184

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I*	82	/-	/-	/42	/13	/6

Wind reactions based on MWFRS
I Brg Wid = 245 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - G	61	-394

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 5-1-12.

COA #0 278
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09/24/2024

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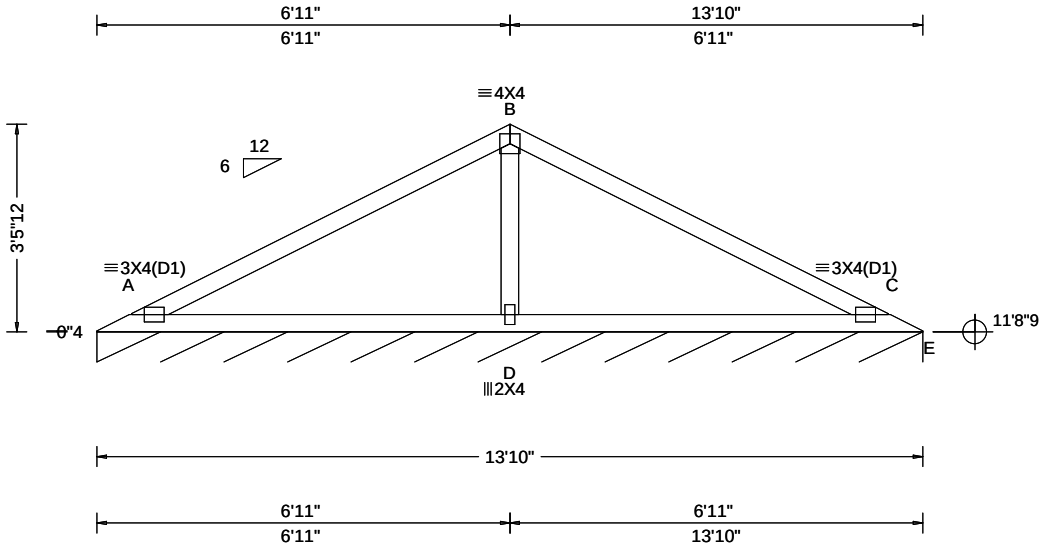
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783254 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** V02		Cust: R 215 JRef:1Y3I2150010 T15 DrwNo: 267.24.1619.15997 AK / DF 09/23/2024	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-22
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 8th Ed. 2023 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.039 A	999	240
VERT(CL):	0.080 A	999	180
HORZ(LL):	-0.016 C	-	-
HORZ(TL):	0.032 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.564
Max Web CSI: 0.218

VIEW Ver: 23.02.04.0123.14

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	82	/-	/-	/41	/12	/6

Wind reactions based on MWFRS
E Brg Wid = 165 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	672	-285	B - C	672	-295

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - D	333	-533	D - C	333	-533

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	455	-872

Lumber

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

Wind

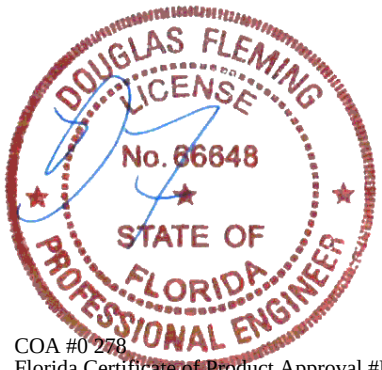
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 3-5-12.



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09/24/2024

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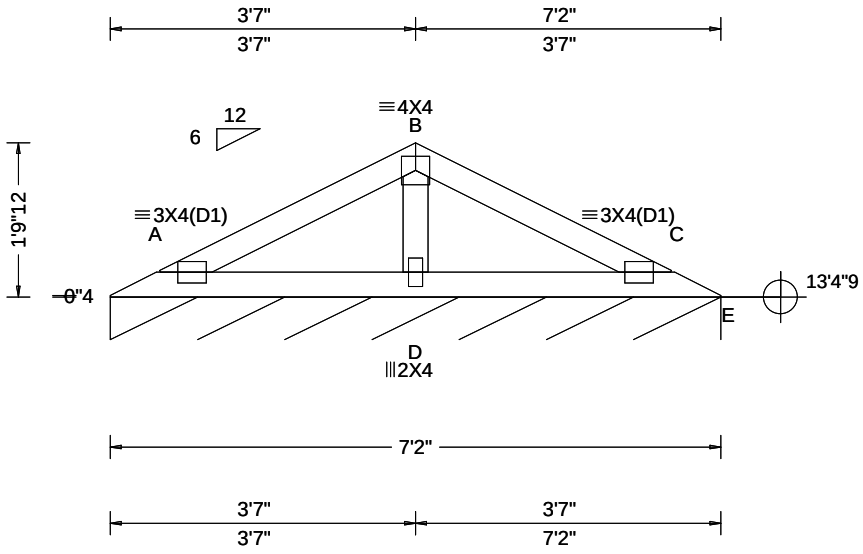
North Building, 4th Floor
Glenview, IL 60025

SEQN: 783256 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 24-1711 Ryan **Truss Label:** V03	Cust: R 215 JRef:1Y3I2150010 T16 DrwNo: 267.24.1619.21907 AK / DF 09/23/2024



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-22	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.005 A 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.010 A 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 C - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 8th Ed. 2023 Res.	Max TC CSI: 0.143
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.131
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.070
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 23.02.04.0123.14
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	82	/-	/-	/40	/9	/5

Wind reactions based on MWFRS
E Brg Wid = 86.0 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

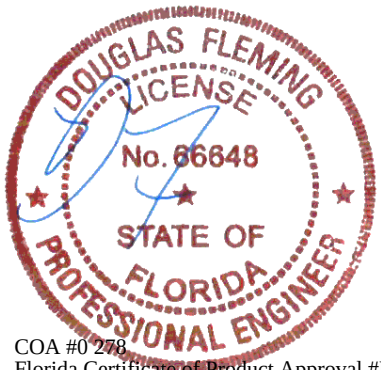
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.

The overall height of this truss excluding overhang is 1-9-12.



COA #0 278
Florida Certificate of Product Approval #FL1999
09/24/2024

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CLR Reinforcing Member Substitution

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

Notes:

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

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

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

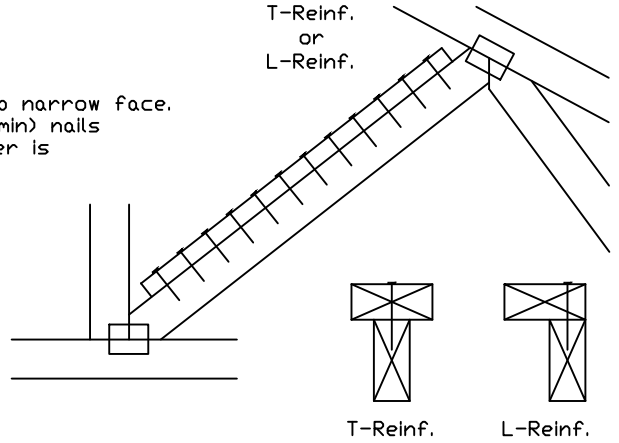
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

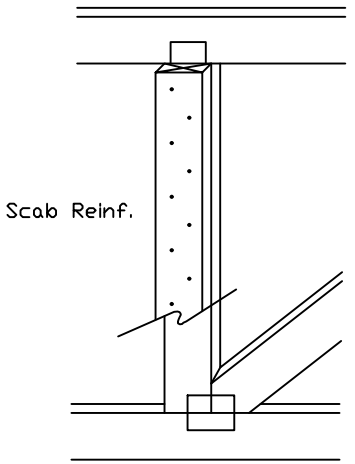
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/24/2024

COA #0 278

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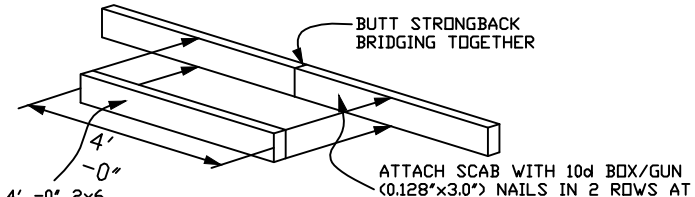
TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

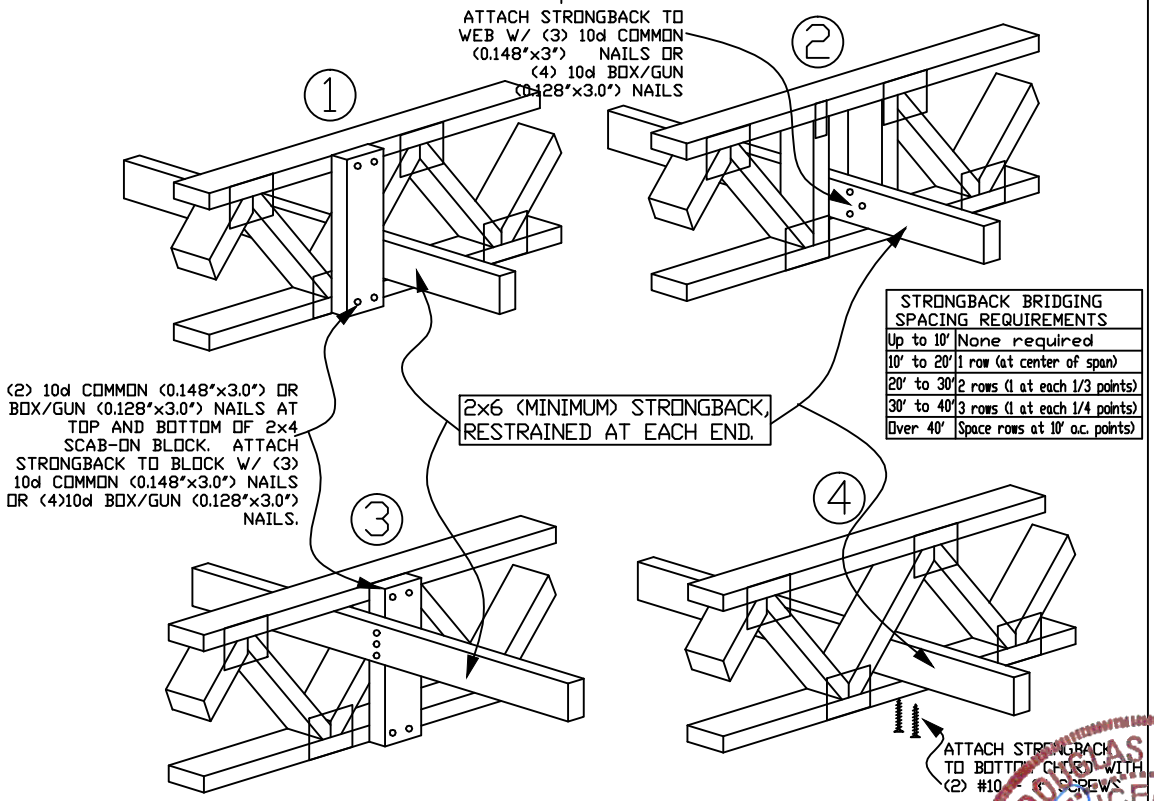
STRONGBACK BRIDGING RECOMMENDATIONS



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

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



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

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

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

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

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

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09/24/2024
COA #0 278

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

Piggyback Detail - ASCE 7-22: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

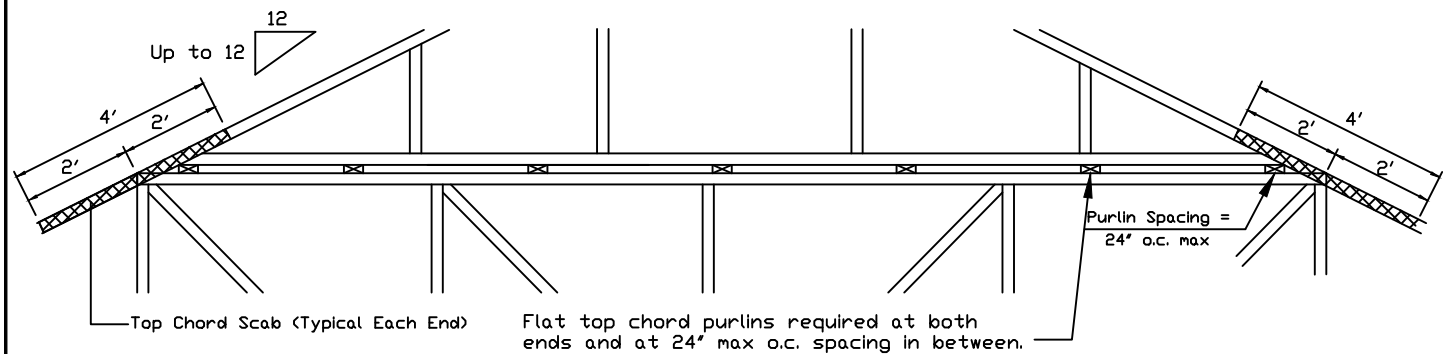
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



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

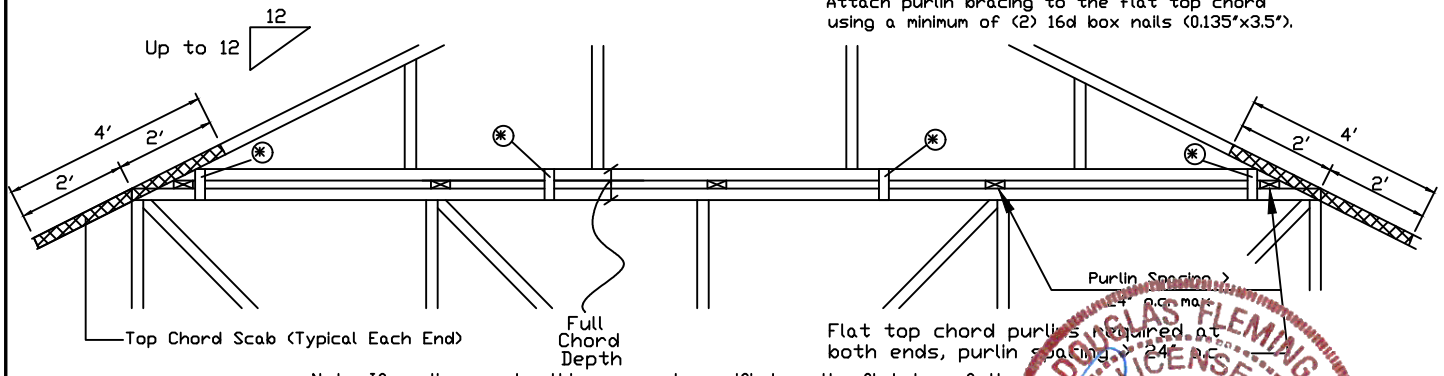
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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



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

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

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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09/24/2024

COA #0 278

REF	PIGGYBACK
DATE	07/03/2023
DRWG	PB160220723
SPACING	24.0"

Valley Detail - ASCE 7-22: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-22 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-22 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

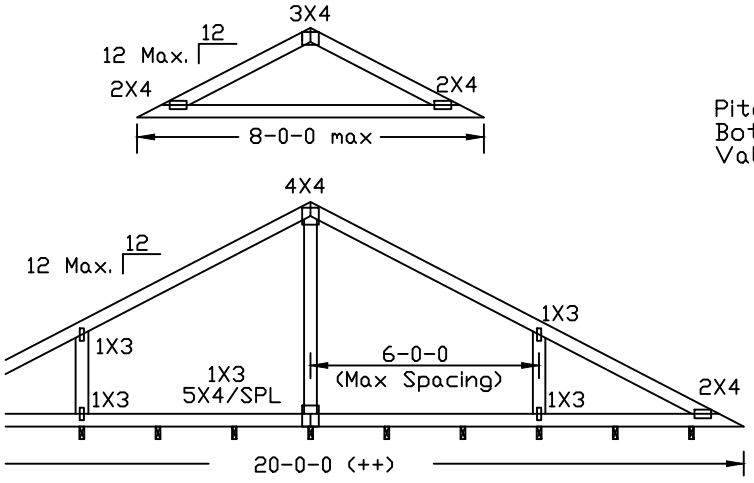
All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

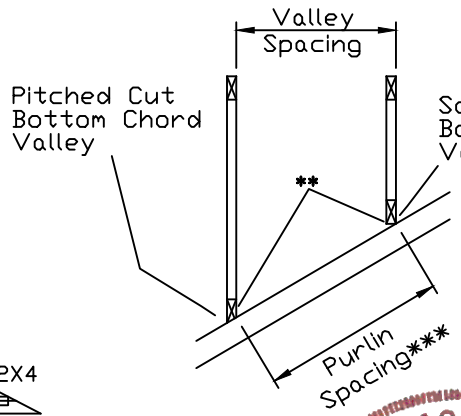
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

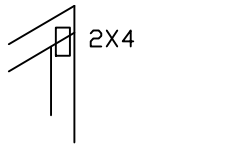
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



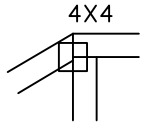
Supporting trusses at 24" o.c. maximum spacing.



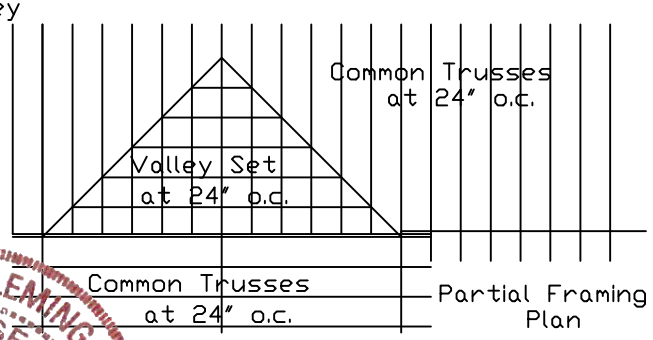


Square Cut Bottom Chord Valley

Stubbed Valley End Detail



Optional Hip Joint Detail



Partial Framing Plan

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/24/2024

COA #0 278

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TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VAL180220723

Valley Detail - ASCE 7-22: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-22, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location:
140 mph for SP (G = 0.55, min.),
125 mph for DF-L (G = 0.50, min.), or
105 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

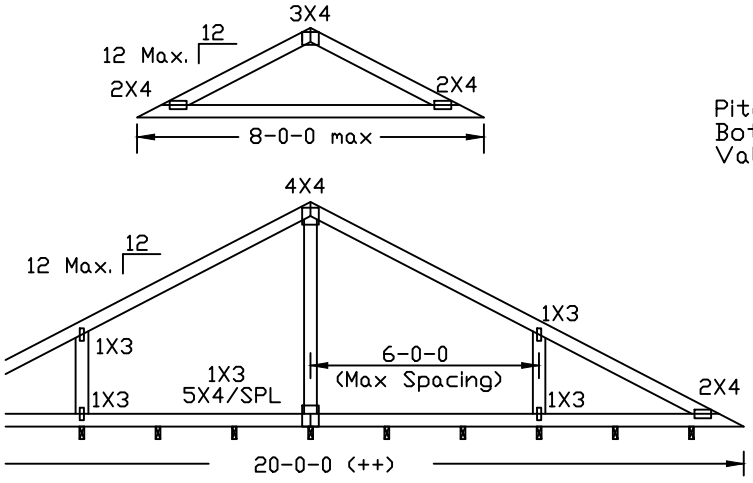
All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

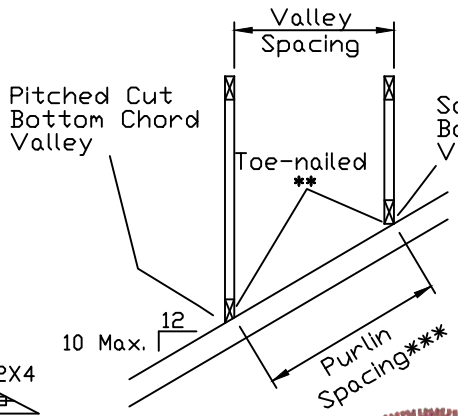
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

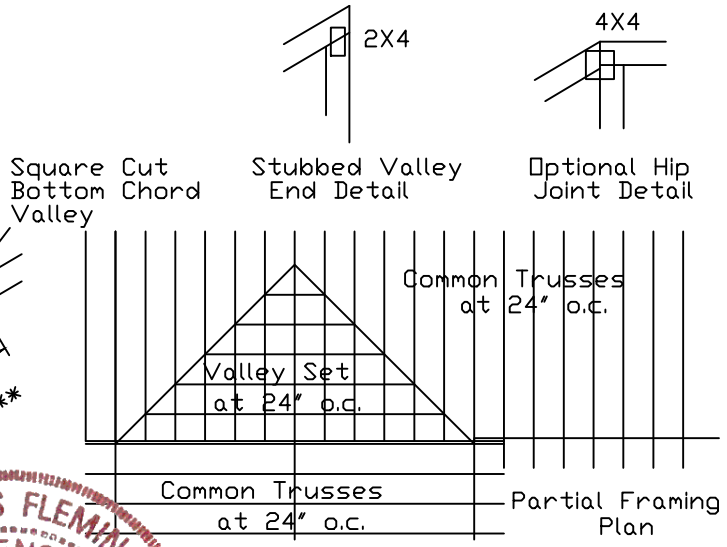
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



Supporting trusses at 24" o.c. maximum spacing.





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

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/24/2024
COA #0 278

TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25	1.33	1.15	1.15
SPACING			24.0"	

REF	VALLEY DETAIL
DATE	07/03/2023
DRWG	VALTN220723