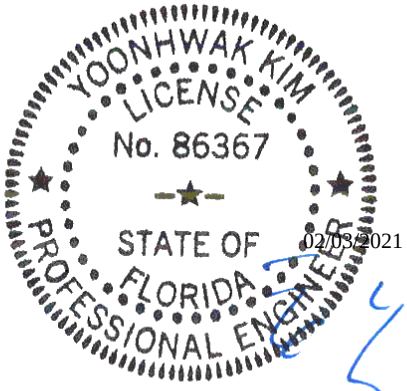

02/03/2021

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ALPINE AN ITW COMPANY

FL REG# 278, Yoonhwak Kim, FL PE #86367

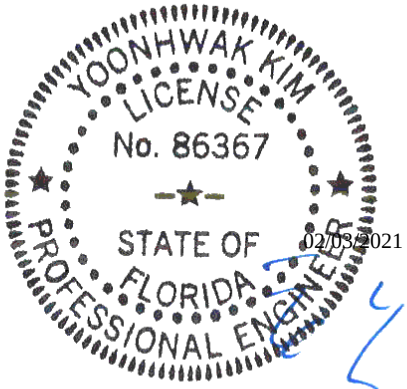
Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4975
Job Description: Jimenez	
Address:	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	*IntelliVIEW Version:* 20.01.01A *JRef #:* 1X2L2150004
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 37.00

This package contains general notes pages, 55 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	034.21.0814.56247	A01	2	034.21.0814.58343	A02
3	034.21.0814.59777	A03	4	034.21.0815.01613	A04
5	034.21.0815.08200	A05	6	034.21.0815.13840	A06
7	034.21.0815.15977	A07	8	034.21.0815.19690	A08
9	034.21.0815.21777	A09	10	034.21.0815.24933	A10
11	034.21.0815.30250	A11	12	034.21.0815.32833	A12
13	034.21.0815.35223	A13	14	034.21.0815.37117	A14
15	034.21.0815.38510	A15	16	034.21.0815.40013	A16
17	034.21.0815.41450	A17	18	034.21.0815.42823	A18
19	034.21.0815.48097	A19	20	034.21.0815.51820	A20
21	034.21.0815.54510	A21	22	034.21.0815.56907	A22
23	034.21.0815.59017	A23	24	034.21.0816.01110	A24
25	034.21.0816.02980	B01	26	034.21.0816.04293	B02
27	034.21.0816.05513	B03	28	034.21.0816.06790	B04
29	034.21.0816.08040	B05	30	034.21.0816.11207	C01
31	034.21.0816.12840	C02	32	034.21.0816.14137	C03
33	034.21.0816.15690	D01	34	034.21.0816.19877	E01
35	034.21.0816.23227	E02	36	034.21.0816.26457	HJ7
37	034.21.0816.27710	HJ7A	38	034.21.0817.11597	HJ5
39	034.21.0817.13473	HJ5A	40	034.21.0817.15400	HJ2
41	034.21.0817.16713	EJ7	42	034.21.0817.18000	EJ7A
43	034.21.0817.19207	EJ7B	44	034.21.0817.20433	EJ7C
45	034.21.0817.21667	EJ5	46	034.21.0817.23063	EJ5A
47	034.21.0817.24127	EJ2	48	034.21.0817.25223	CJ5
49	034.21.0817.26360	CJ5A	50	034.21.0817.27477	CJ3
51	034.21.0817.28780	CJ3A	52	034.21.0817.29847	CJ3B



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Alpine, an ITW Company
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Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4975
Job Description: Jimenez	
Address:	

Item	Drawing Number	Truss
53	034.21.0817.31030	CJ3C
55	034.21.0817.36990	CJ1A

Item	Drawing Number	Truss
54	034.21.0817.32353	CJ1
56	BRCLBSUB0119	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

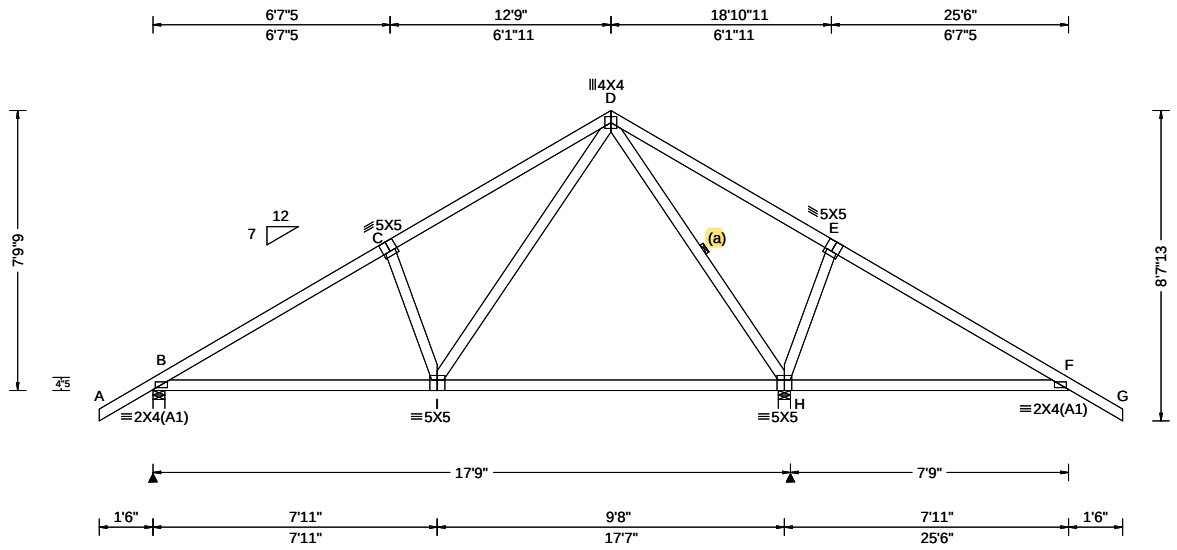
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; 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.sbcindustry.com.

SEQN: 4287 COMN FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** A01	Cust: R 215 JRef:1X2L2150004 T5 DrwNo: 034.21.0814.56247 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.034	H	999	240
VERT(CL): 0.066	H	999	180
HORZ(LL): 0.012	E	-	-
HORZ(TL): 0.021	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.790
Max BC CSI: 0.881
Max Web CSI: 0.514

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	742	/-	/-	/427	/137	/236
H	1669	/-	/-	/1040	/262	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
H Brg Width = 4.0 Min Req = 1.7
Bearings B & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	232	-921	D - E	776	-418
C - D	291	-810	E - F	686	-473

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	727	-358	H - F	479	-520

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	748	-169	D - H	452	-1192

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

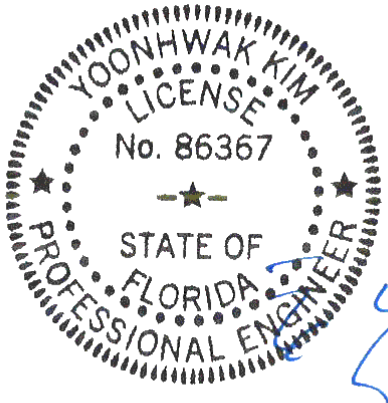
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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

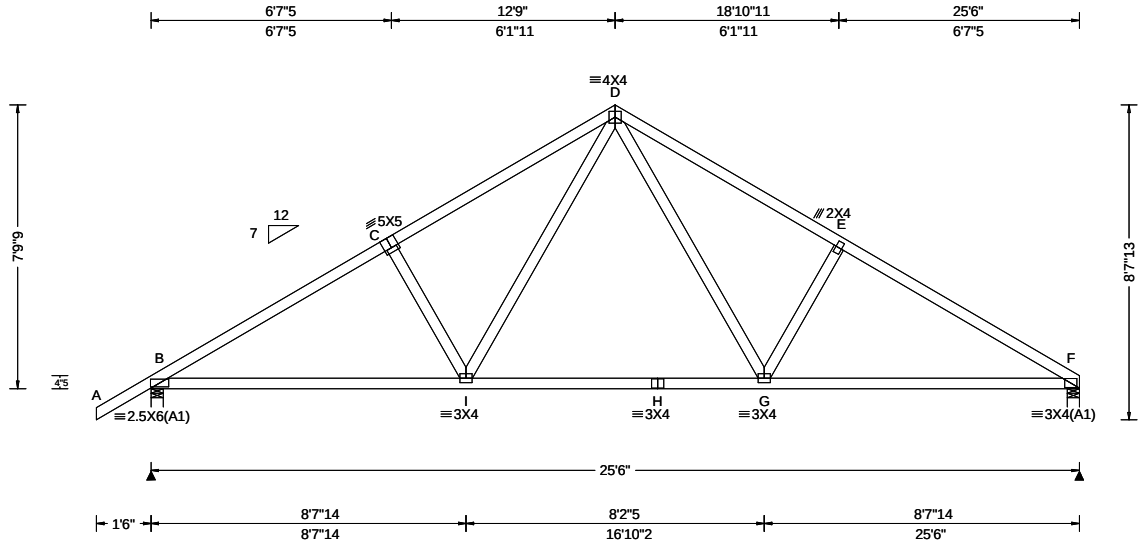
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4164 COMN FROM: SDY	Ply: 1 Qty: 3	**Job Number:** 20-4975 Jimenez **Truss Label:** A02		Cust: R 215 JRef:1X2L2150004 T61 DrwNo: 034.21.0814.58343 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.065	I	999	240
VERT(CL): 0.115	I	999	180
HORZ(LL): 0.027	G	-	-
HORZ(TL): 0.049	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.388
Max BC CSI: 0.838
Max Web CSI: 0.236

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1143	/-	/-	/596	/227	/219
F	1045	/-	/-	/521	/196	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	356	-1652	D - E	399	-1498
C - D	392	-1485	E - F	363	-1664

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1353	-224	H - G	918	-61
I - H	918	-61	G - F	1368	-232

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	600	-121	D - G	620	-132

Lumber

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

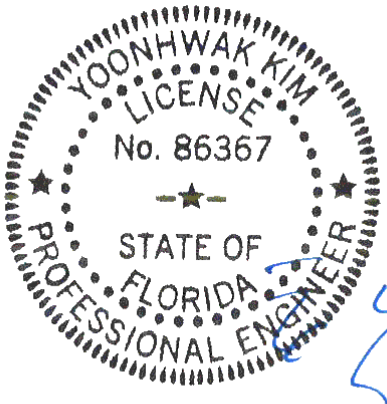
Loading

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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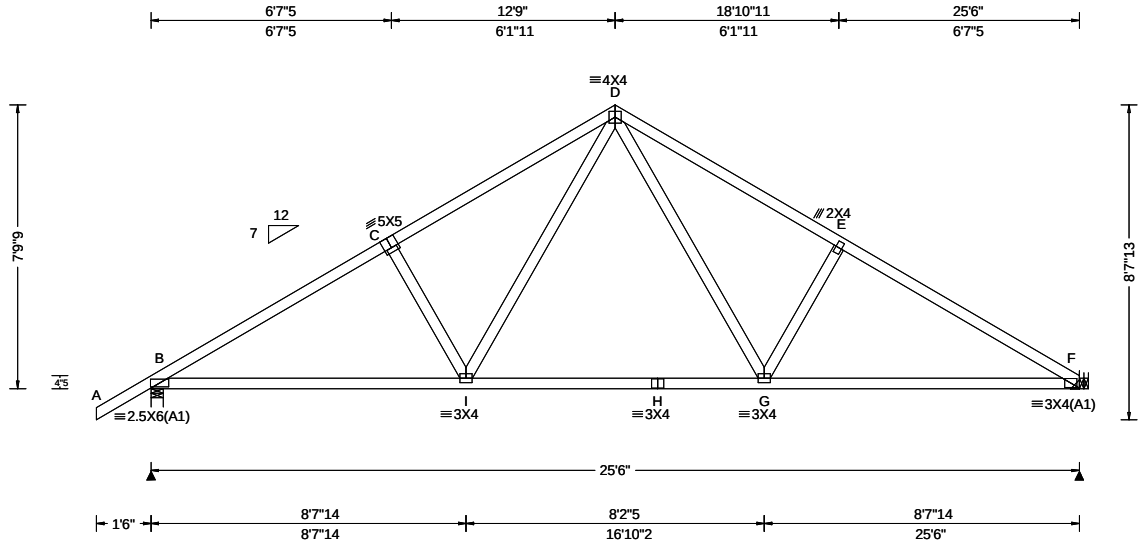
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4167 COMN FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** A03	Cust: R 215 JRef:1X2L2150004 T46 DrwNo: 034.21.0814.59777 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.065	I	999	240
VERT(CL): 0.115	I	999	180
HORZ(LL): 0.027	G	-	-
HORZ(TL): 0.049	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.396
Max BC CSI: 0.846
Max Web CSI: 0.238

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1144	/-	/-	/596	/227	/219
F	1045	/-	/-	/521	/196	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	356	-1653	D - E	400	-1503
C - D	392	-1487	E - F	364	-1669

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1355	-224	H - G	920	-62
I - H	920	-62	G - F	1373	-233

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	599	-121	D - G	625	-133

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=25'3" uses the following support conditions: 25'3"
Bearing F (25'3", 9'1"2) LUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

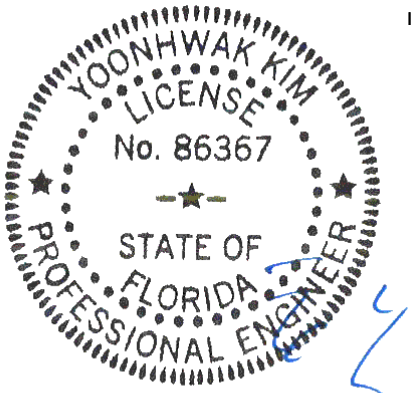
Loading

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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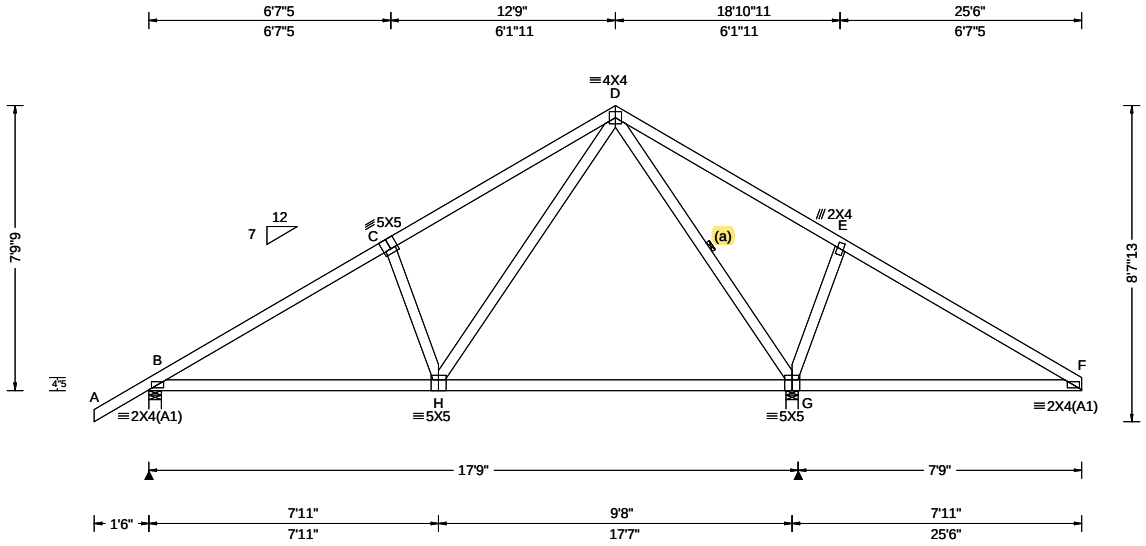
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4282 COMN FROM: SDY	Ply: 1 Qty: 5	**Job Number:** 20-4975 Jimenez **Truss Label:** A04		Cust: R 215 JRef:1X2L2150004 T6 DrwNo: 034.21.0815.01613 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.026	H	999	240
VERT(CL): 0.050	H	999	180
HORZ(LL): 0.010	C	-	-
HORZ(TL): 0.018	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.790
Max BC CSI: 0.900
Max Web CSI: 0.437

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	757	/-	/-	/425	/152	/219
G	1533	/-	/-	/932	/219	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	189	- 950	D - E	575	- 232
C - D	264	- 840	E - F	487	- 290

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - H	752	- 278

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - D	745	- 168	G - E	277	- 385
D - G	302	- 1014			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

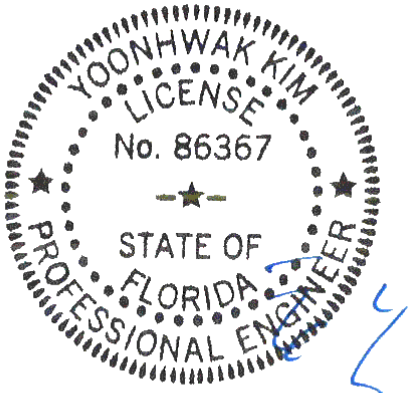
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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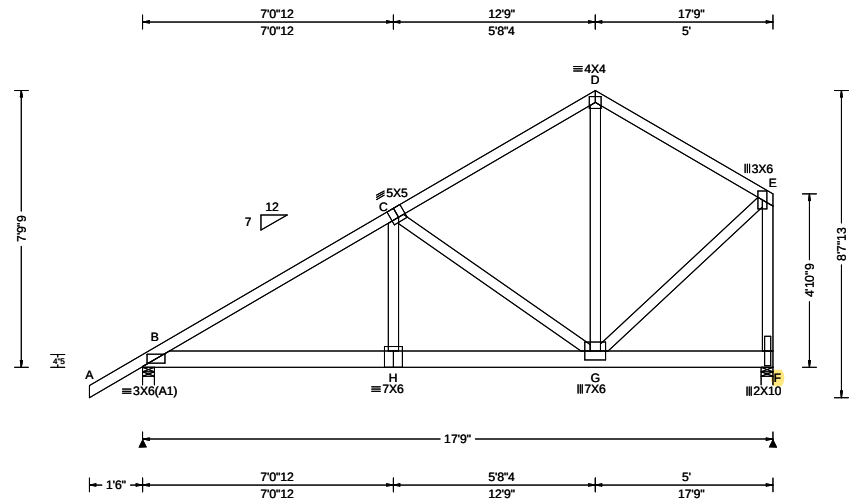
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4278 SPEC FROM: SDY	Ply: 2 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A05	Cust: R 215 JRef:1X2L2150004 T38 DrwNo: 034.21.0815.08200 / YK 02/03/2021	

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.053 H 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.097 H 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.010 D - -
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.019 D - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.370
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.464
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.597
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.12
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2643	/-	/-	/-	/625	/-
F	4935	/-	/-	/-	/1202	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = 4.0 Min Req = 2.0
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	542	- 2298	D - E	331	- 1334
C - D	326	- 1323			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1943	- 449	H - G	1926	- 446

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - C	941	- 182	G - E	1512	- 367
C - G	226	- 993	E - F	433	- 1726
D - G	1194	- 264			

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	56 plf at	-1.50 to	56 plf at	7.06
TC: From	28 plf at	7.06 to	28 plf at	12.75
TC: From	56 plf at	12.75 to	56 plf at	17.75
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.06
BC: From	10 plf at	7.06 to	10 plf at	17.75

BC: 1400 lb Conc. Load at 7.06
BC: 625 lb Conc. Load at 9.06,11.06
BC: 1250 lb Conc. Load at 13.06,15.06,17.06

Wind

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

Additional Notes

WIND LOAD CASE MODIFIED!

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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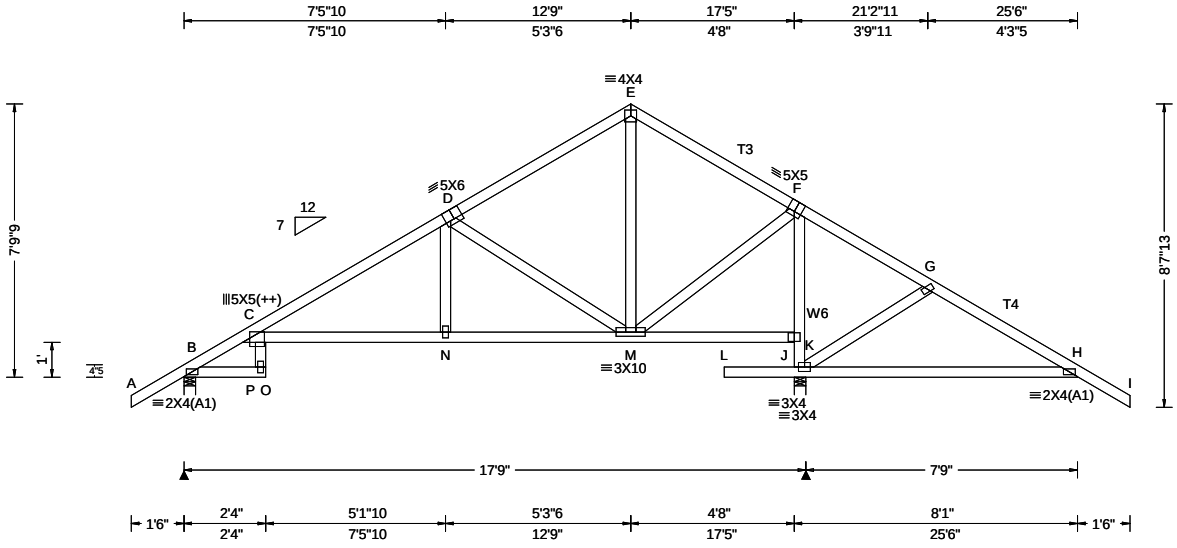
ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4294 COMN FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A06	Cust: R 215 JRef:1X2L2150004 T7 DrwNo: 034.21.0815.13840 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.250	O	843	240
VERT(CL): 0.565	O	373	180
HORZ(LL): -0.183	J	-	-
HORZ(TL): 0.333	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.582
Max BC CSI: 0.650
Max Web CSI: 0.710

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	698	/-	/-	/431	/139	/236
J	1525	/-	/-	/1032	/261	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	130	- 469	F - G	810	- 477
C - D	312	- 889	G - H	607	- 462

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - P	618	- 337	M - K	637	- 753
P - N	772	- 441	J - H	459	- 513
N - M	769	- 442			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	194	- 651	F - K	521	- 1253
M - F	957	- 376	K - J	558	- 1307

Lumber

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP M-31;

Plating Notes

All plates are 2X4 except as noted.

(++) - This plate works for both joints covered.

Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

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

FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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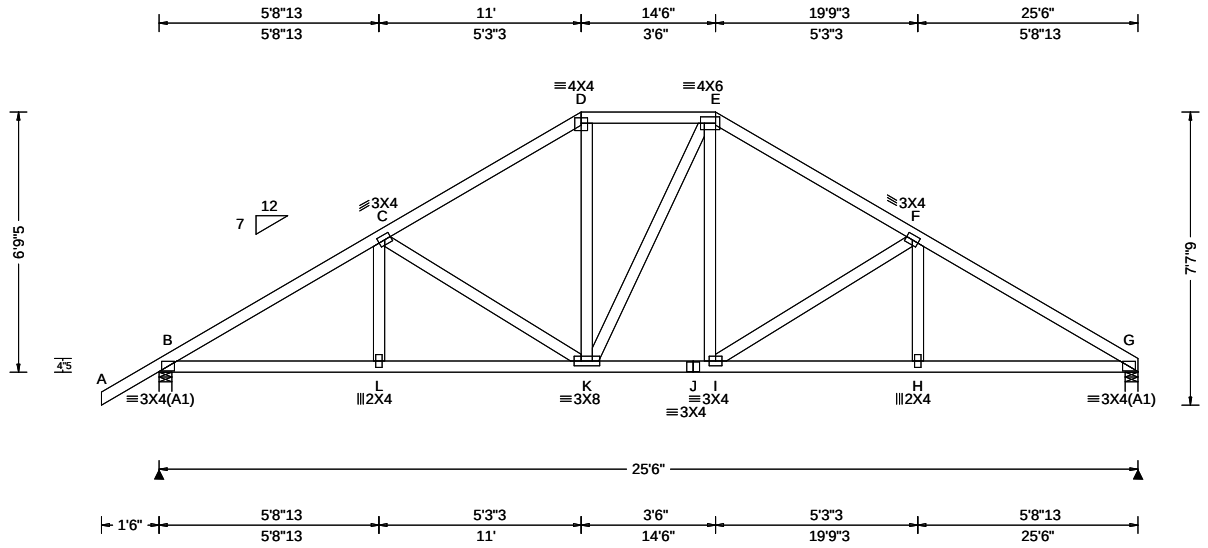
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4161 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A07		Cust: R 215 JRef:1X2L2150004 T49 DrwNo: 034.21.0815.15977 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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):	0.054 I	999	240
VERT(CL):	0.102 I	999	180
HORZ(LL):	0.026 H	-	-
HORZ(TL):	0.049 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.288
Max BC CSI: 0.446
Max Web CSI: 0.323

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1066	/-	/-	/599	/70	/193
G	968	/-	/-	/524	/54	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	472	- 1534	E - F	461	- 1155
C - D	458	- 1147	F - G	482	- 1552
D - E	439	- 929			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1258	- 333	J - I	928	- 205
L - K	1256	- 334	I - H	1276	- 345
K - J	928	- 205	H - G	1278	- 344

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	155	- 396	I - F	168	- 417

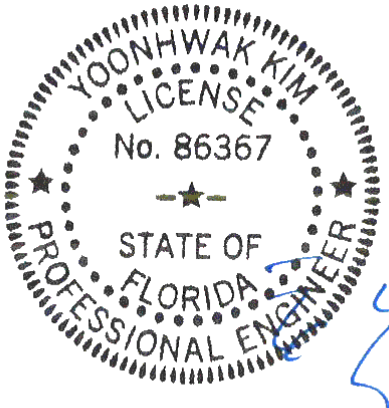
Lumber

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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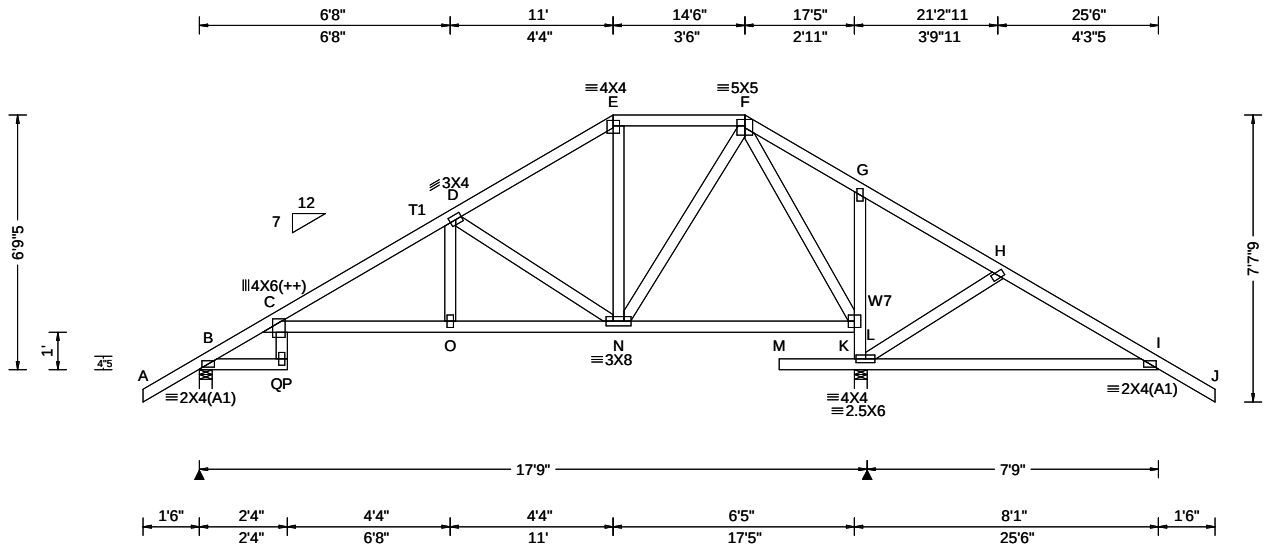
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4297 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A08		Cust: R 215 JRef:1X2L2150004 T2 DrwNo: 034.21.0815.19690 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.256	K	364	240
VERT(CL): 0.494	P	426	180
HORZ(LL): -0.190	K	-	-
HORZ(TL): 0.296	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.539
Max BC CSI: 0.658
Max Web CSI: 0.974

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	698	/-	/-	/438	/140	/210
K	1526	/-	/-	/1036	/264	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	154	-455	F - G	968	-594
C - D	344	-961	G - H	806	-476
D - E	309	-498	H - I	611	-466

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - Q	706	-360	N - L	360	-387
Q - O	854	-454	K - I	463	-517
O - N	851	-455			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	185	-606	F - L	663	-1297
N - F	573	-230	L - K	643	-1295

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W7 2x4 SP M-31;

Plating Notes

All plates are 2X4 except as noted.

(++) - This plate works for both joints covered.

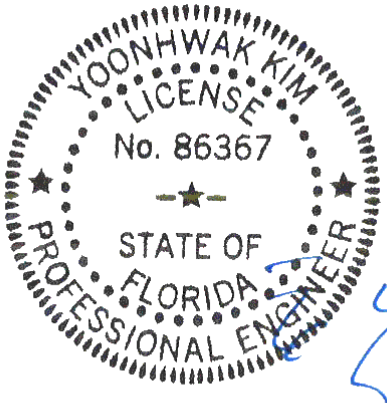
Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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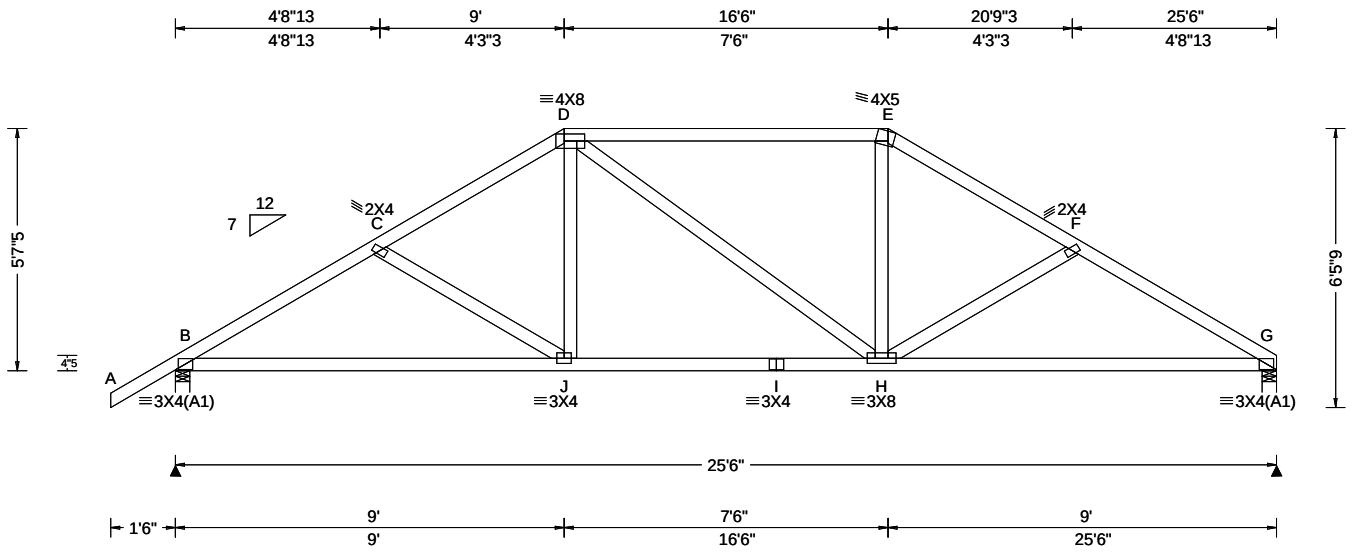
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4158 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A09		Cust: R 215 JRef:1X2L2150004 T28 DrwNo: 034.21.0815.21777 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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	J	999	240
VERT(CL): 0.097	J	999	180
HORZ(LL): 0.026	H	-	-
HORZ(TL): 0.048	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.781
Max Web CSI: 0.144

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1066	/-	/-	/597	/105	/163
G	968	/-	/-	/522	/89	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	639	- 1513	E - F	621	- 1305
C - D	617	- 1302	F - G	649	- 1529
D - E	592	- 1093			

Maximum Bot Chord Forces Per Ply (lbs)

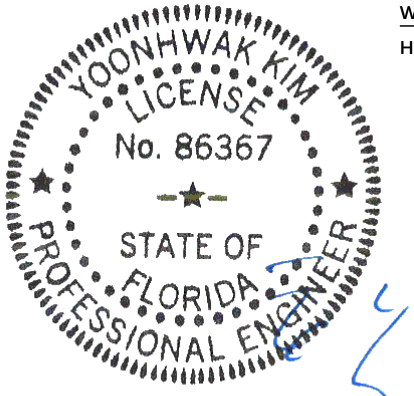
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1251	- 479	I - H	1084	- 401
J - I	1084	- 401	H - G	1271	- 491

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
H - E	378	0

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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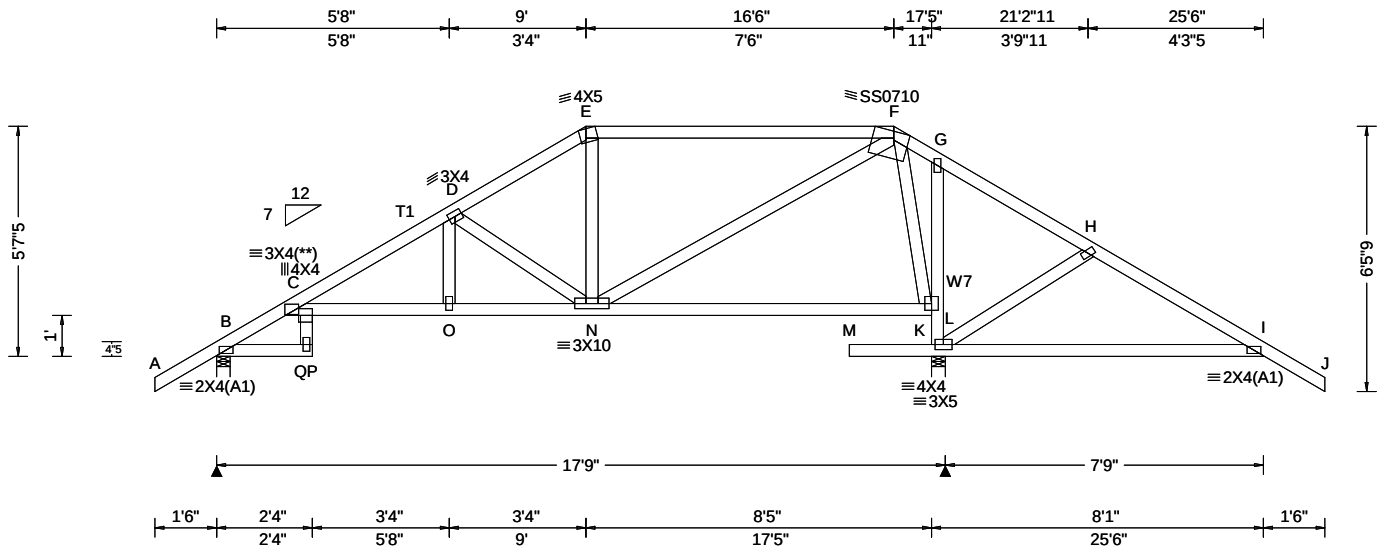
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4300 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A10		Cust: R 215 JRef:1X2L2150004 T8 DrwNo: 034.21.0815.24933 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.241	K	387	240
VERT(CL): 0.427	P	493	180
HORZ(LL): -0.174	K	-	-
HORZ(TL): 0.258	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.686
Max BC CSI: 0.658
Max Web CSI: 0.707

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	698	/-	/-	/438	/142	/179
K	1526	/-	/-	/1033	/269	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	- 440	F - G	977	- 646
C - D	367	- 1044	G - H	804	- 474
D - E	333	- 706	H - I	612	- 468
E - F	330	- 566			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - Q	810	- 376	N - L	461	- 588
Q - O	951	- 458	K - I	465	- 518
O - N	949	- 459			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	181	- 470	F - L	899	- 1289
N - F	943	- 452	L - K	755	- 1297

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W7 2x4 SP M-31;

Plating Notes

All plates are 2X4 except as noted.

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

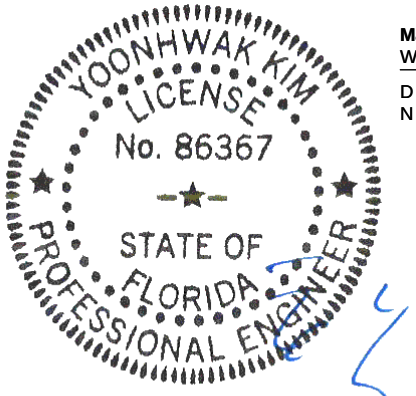
Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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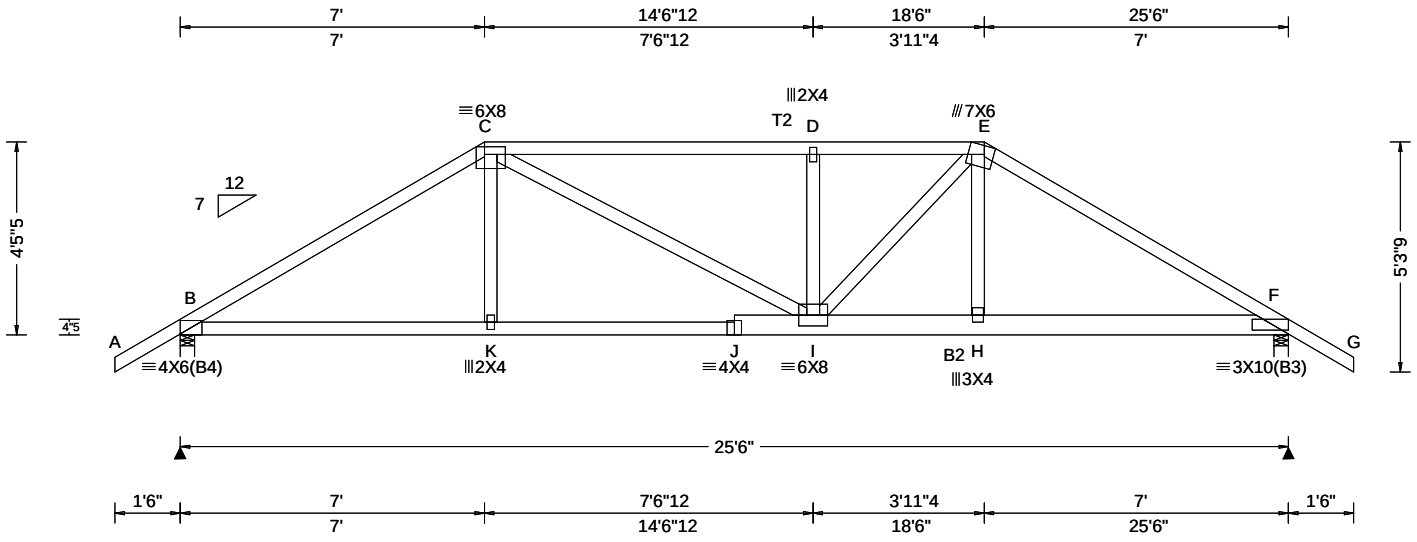
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4148 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A11	Cust: R 215 JRef:1X2L2150004 T59 DrwNo: 034.21.0815.30250 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.151	D	999	240
VERT(CL): 0.279	D	999	180
HORZ(LL): 0.044	H	-	-
HORZ(TL): 0.081	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.980
Max BC CSI: 0.851
Max Web CSI: 0.733

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1802	/-	/-	/-	/328	/-
F	2385	/-	/-	/-	/423	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.8
F Brg Width = 4.0 Min Req = 2.0
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	494	-2905	D - E	605	-4127
C - D	604	-4126	E - F	681	-4049

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2425	-389	I - H	3437	-547
K - J	2430	-386	H - F	3416	-549
J - I	2436	-386			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	1925	-248	H - E	586	0
I - E	989	-82			

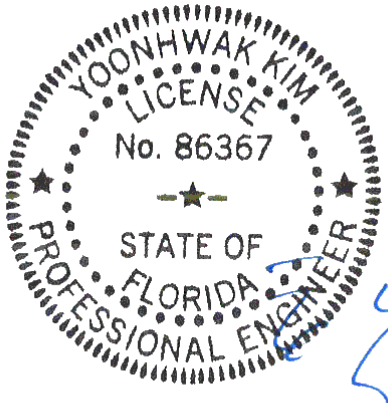
Lumber
Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

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

TC: From	56 plf at	-1.50 to	56 plf at	14.56
TC: From	28 plf at	14.56 to	28 plf at	18.50
TC: From	56 plf at	18.50 to	56 plf at	27.00
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	12.75
BC: From	10 plf at	12.75 to	10 plf at	18.50
BC: From	20 plf at	18.50 to	20 plf at	25.50
BC: From	5 plf at	25.50 to	5 plf at	27.00

TC: 152 lb Conc. Load at 16.44
TC: 406 lb Conc. Load at 18.50
BC: 1105 lb Conc. Load at 14.56
BC: 108 lb Conc. Load at 16.44
BC: 458 lb Conc. Load at 18.50

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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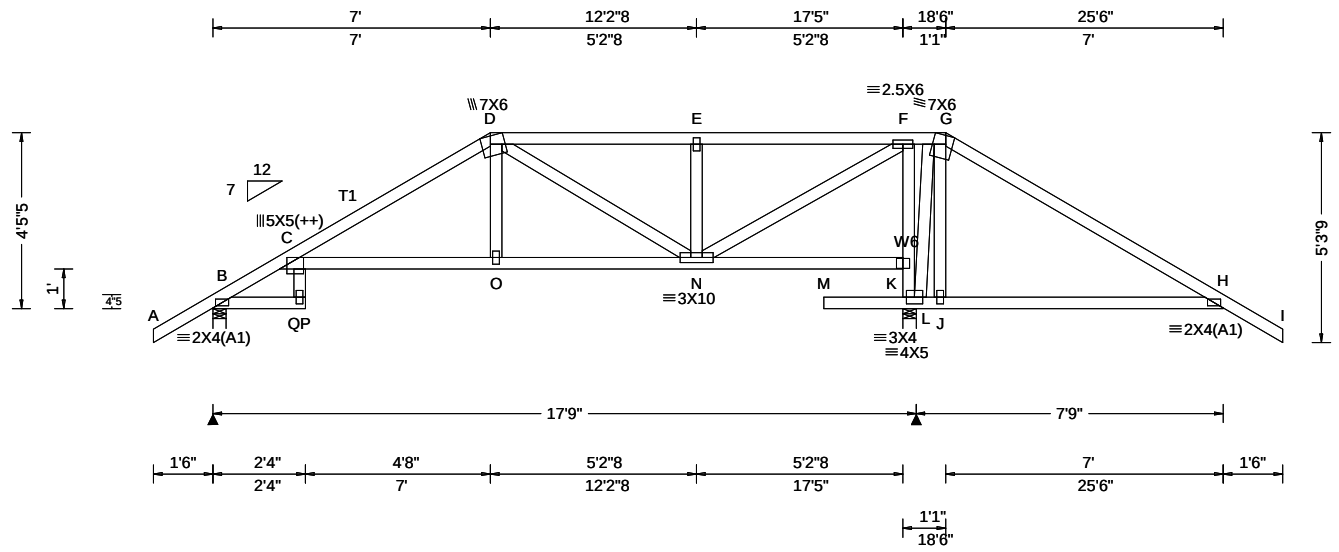
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4303 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A12	Cust: R 215 JRef:1X2L2150004 T16 DrwNo: 034.21.0815.32833 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.234	P	900	240
VERT(CL): 0.531	P	396	180
HORZ(LL): -0.153	J	-	-
HORZ(TL): 0.316	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.835
Max BC CSI: 0.433
Max Web CSI: 0.682

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	698	/-	/-	/429	/144	/148
K	1526	/-	/-	/1020	/318	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	231	-462	E - F	471	-532
C - D	446	-918	F - G	730	-431
D - E	471	-533	G - H	776	-436

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - Q	654	-254	N - L	659	-868
Q - O	804	-338	K - J	464	-581
O - N	811	-336	J - H	475	-594

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	186	-567	L - K	784	-1047
N - F	1131	-690	K - G	669	-886
F - L	738	-966	J - G	618	-541

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W6 2x4 SP M-31;

Plating Notes

All plates are 2X4 except as noted.

(++) - This plate works for both joints covered.

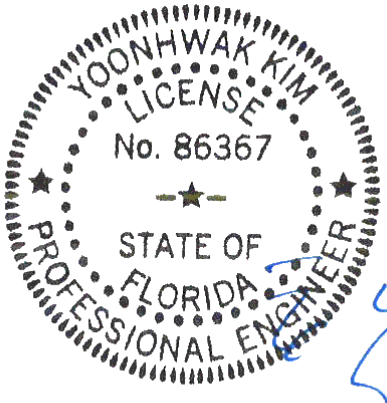
Wind

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

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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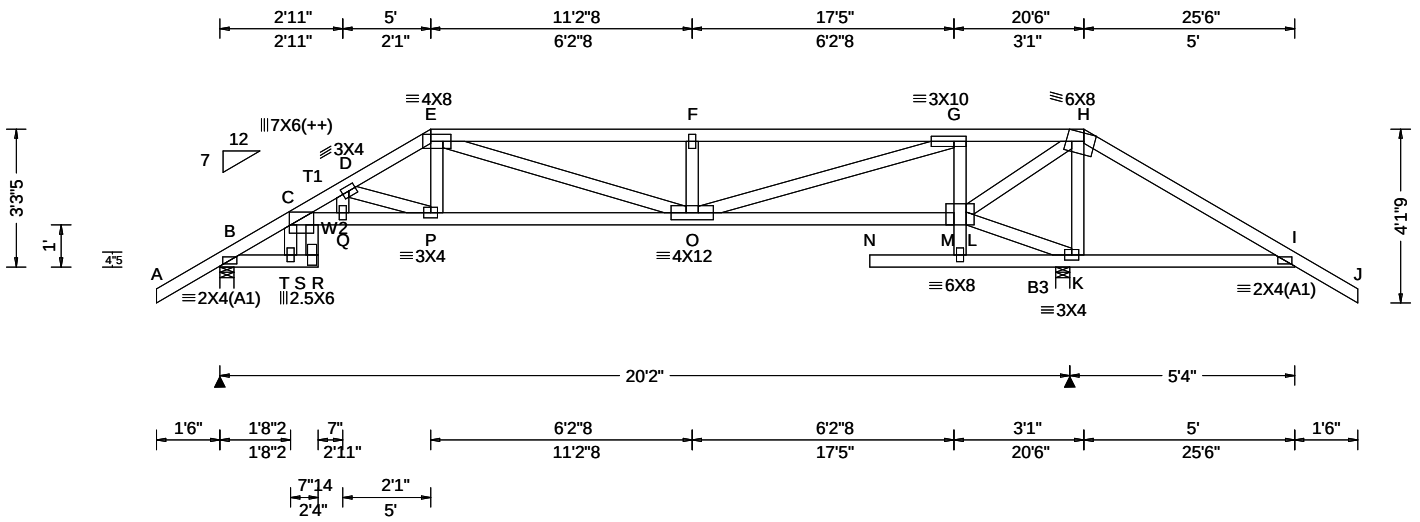
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4321 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A13		Cust: R 215 JRef:1X2L2150004 T18 DrwNo: 034.21.0815.35223 / YK 02/03/2021	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 10.47 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.205	F	999	240
VERT(CL): 0.391	F	610	180
HORZ(LL): 0.141	N	-	-
HORZ(TL): 0.268	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.721
Max BC CSI: 0.899
Max Web CSI: 0.763

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1173	/-	/-	/-	/243	/-
K	2046	/-	/-	/-	/426	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
K Brg Width = 4.0 Min Req = 2.0
Bearings B & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	81	-404	F - G	475	-2700
C - D	644	-3512	G - H	65	-724
D - E	464	-2606	H - I	650	-194
E - F	475	-2701			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - S	3236	-584	P - O	2273	-410
S - Q	3234	-584	O - L	794	-83
Q - P	3195	-576	K - I	140	-498

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	255	-1335	F - O	265	-565
S - R	977	-170	O - G	2002	-413
Q - D	435	-87	G - L	323	-1043
D - P	179	-990	L - K	187	-677
E - P	765	-32	L - H	1581	-277
E - O	448	-69	K - H	332	-1362

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

(++) - This plate works for both joints covered.

Loading

#1 hip supports 5-0-0 jacks with no webs.

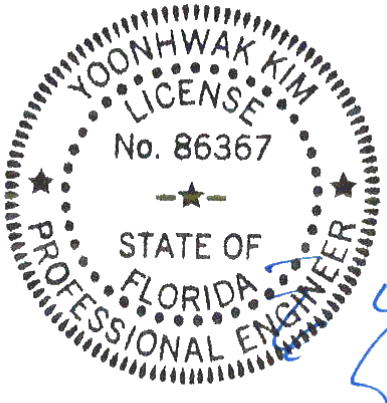
Wind

Wind loads and reactions based on MWFRS.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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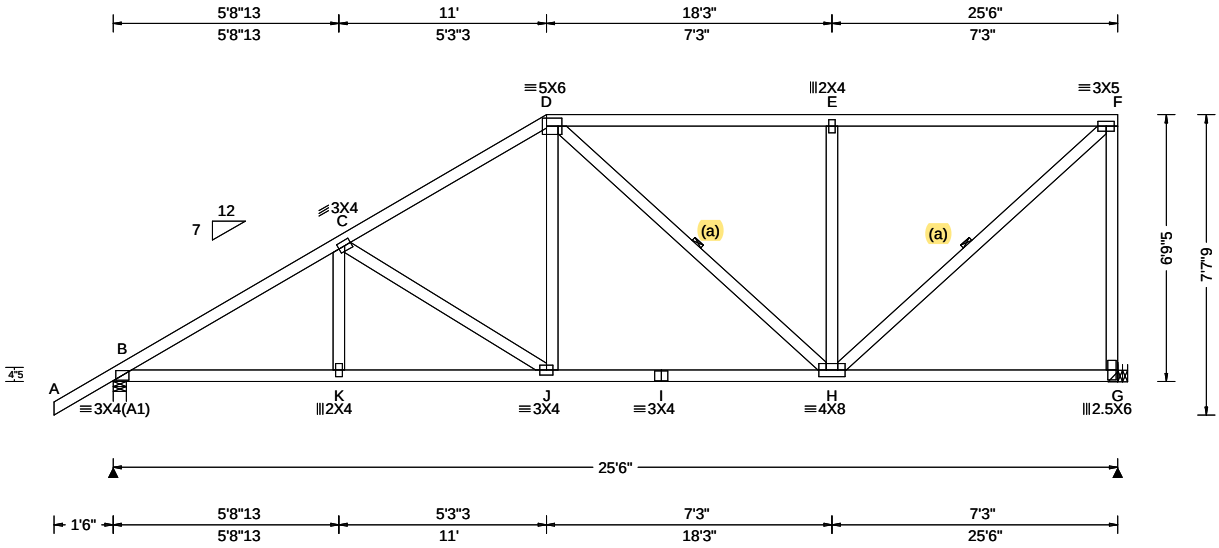
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4170 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A14		Cust: R 215 JRef:1X2L2150004 T51 DrwNo: 034.21.0815.37117 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.050	J	999	240
VERT(CL): 0.093	J	999	180
HORZ(LL): 0.018	H	-	-
HORZ(TL): 0.033	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.825
Max BC CSI: 0.720
Max Web CSI: 0.740

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1072	/-	/-	/638	/205	/251
G	963	/-	/-	/485	/240	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
G Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	565	-1538	D - E	524	-835
C - D	570	-1174	E - F	524	-834

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1260	-642	J - I	953	-545
K - J	1258	-644	I - H	953	-545

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - J	396	-23	H - F	1119	-702
E - H	540	-475	F - G	645	-905

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

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.

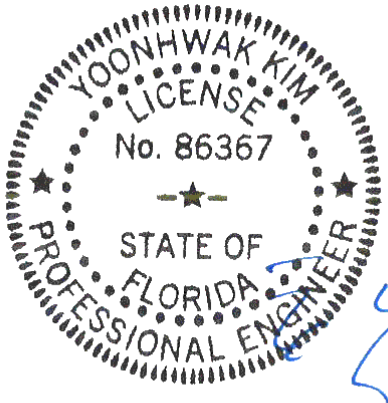
Bearing at location x=25'3" uses the following support conditions: 25'3"
Bearing G (25'3", 9'1"2) LUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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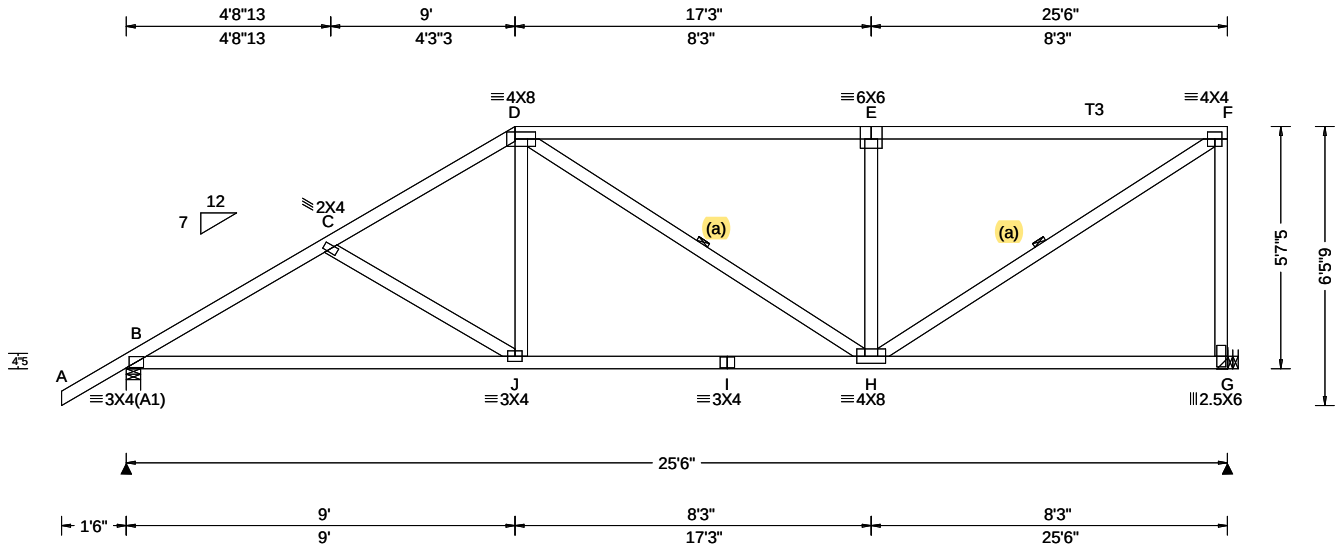
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4173 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A15	Cust: R 215 JRef:1X2L2150004 T50 DrwNo: 034.21.0815.38510 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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	E	999	240
VERT(CL): 0.098	E	999	180
HORZ(LL): 0.017	C	-	-
HORZ(TL): 0.032	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.874
Max BC CSI: 0.864
Max Web CSI: 0.577

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1072	/-	/-	/624	/216	/210
G	963	/-	/-	/471	/232	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
G Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	692	- 1526	D - E	712	- 1108
C - D	674	- 1314	E - F	712	- 1107

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1262	- 712	I - H	1094	- 641
J - I	1094	- 641			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - J	390	0	H - F	1317	- 847
E - H	600	- 538	F - G	664	- 897

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

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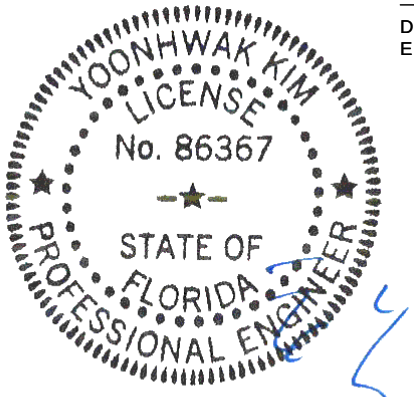
Bearing at location x=25'3" uses the following support conditions: 25'3"
Bearing G (25'3", 9'1"2) LUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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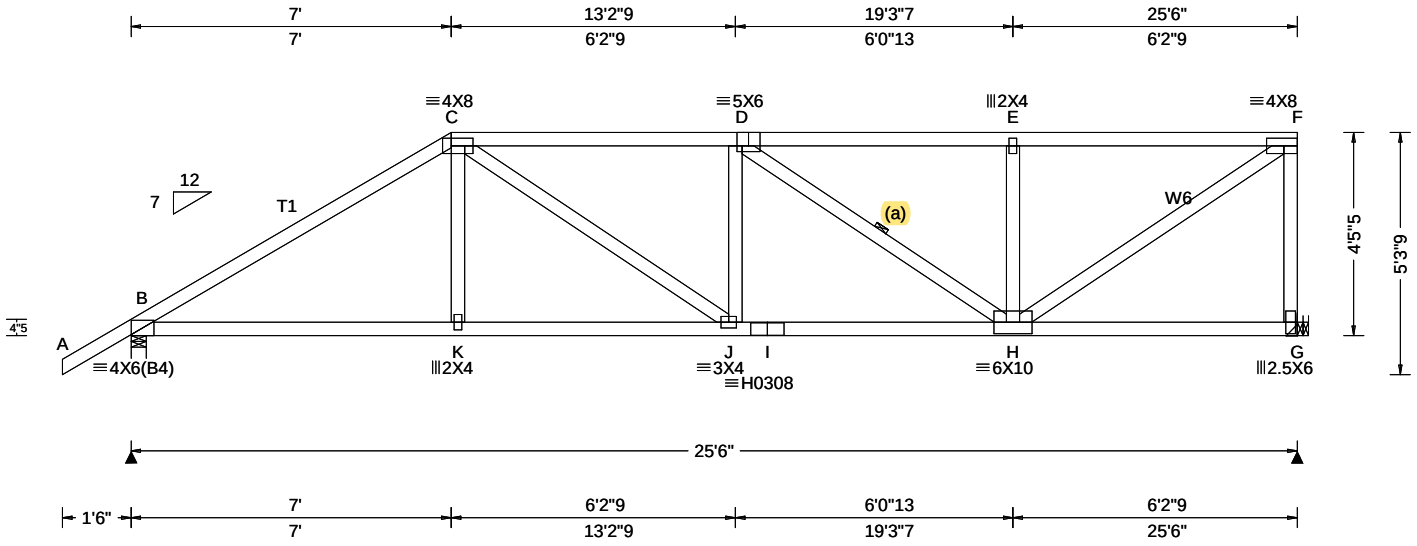
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4182 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A16	Cust: R 215 JRef:1X2L2150004 T48 DrwNo: 034.21.0815.40013 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.127	D	999	240
VERT(CL): 0.242	D	999	180
HORZ(LL): 0.035	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.608
Max BC CSI: 0.488
Max Web CSI: 0.711

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1980	/-	/-	/-	/418	/-
G	2085	/-	/-	/-	/414	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
G Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	664	- 3239	D - E	496	- 2513
C - D	656	- 3334	E - F	496	- 2513

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2716	- 538	J - I	3343	- 671
K - J	2738	- 538	I - H	3343	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	635	0	E - H	364	- 795
C - J	720	- 143	H - F	3022	- 597
D - H	213	- 1013	F - G	466	- 1975

Lumber

Top chord: 2x4 SP M-31; T1 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3; W6 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

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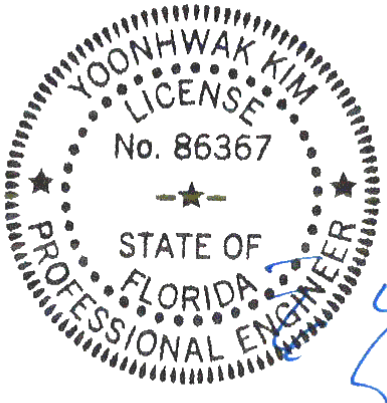
Bearing at location x=25'3" uses the following support conditions: 25'3"
Bearing G (25'3", 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(6) 0.148"x3" nails into supported member.

Loading

#1 hip supports 7-0-0 jacks with no webs.

Wind

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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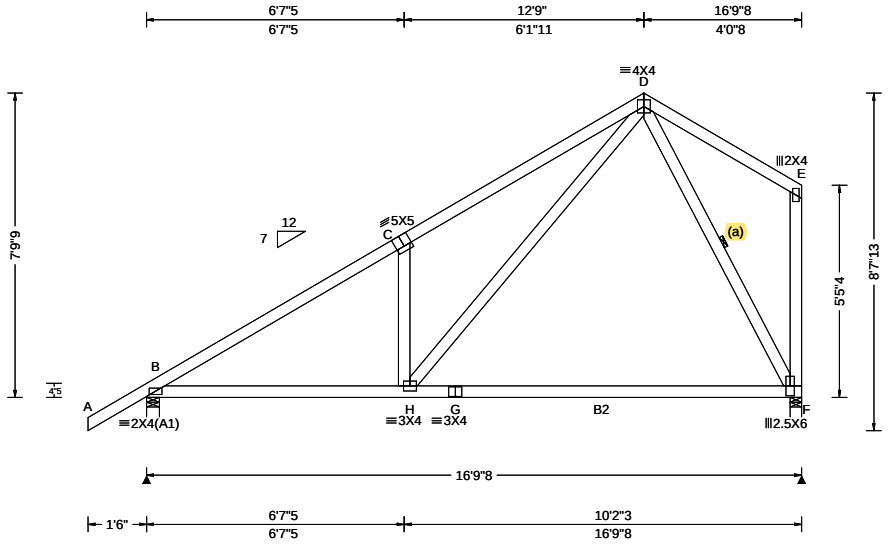
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4220 SPEC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A17	Cust: R 215 JRef:1X2L2150004 T47 DrwNo: 034.21.0815.41450 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.027	C	999	240
VERT(CL): 0.051	C	999	180
HORZ(LL): 0.010	C	-	-
HORZ(TL): 0.019	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.500
Max BC CSI: 0.829
Max Web CSI: 0.584

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	742	/-	/-	/496	/105	/208
F	629	/-	/-	/513	/56	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = 3.5 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	237	- 933	C - D	466	- 933

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - H	737	- 369

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - H	437	- 383	D - F	233	- 495
H - D	767	- 385			

Lumber

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

Bracing

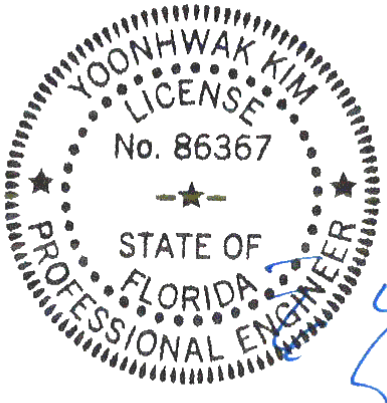
(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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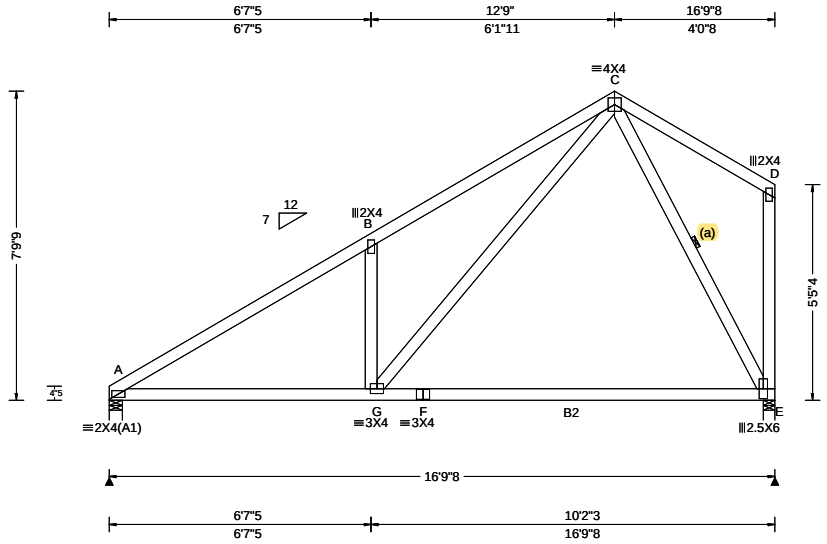
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4217 SPEC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A18	Cust: R 215 JRef:1X2L2150004 T34 DrwNo: 034.21.0815.42823 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.027 B 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.051 B 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.010 B - -
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.020 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.537
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.827
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.640
	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: 20.01.01A.0724.12
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	645	/-	/-	/419	/74	/191
E	634	/-	/-	/518	/58	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
E Brg Width = 3.5 Min Req = 1.5
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	252	- 950	B - C	486	- 955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - G	755	- 386

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - G	450	- 394	C - E	238	- 501
G - C	791	- 407			

Lumber

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

Bracing

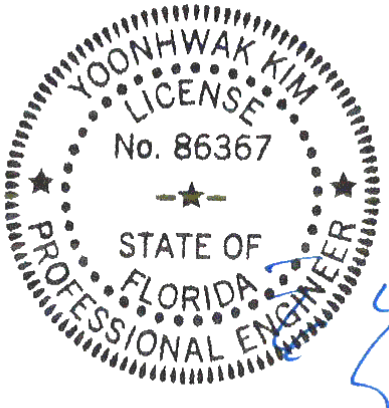
(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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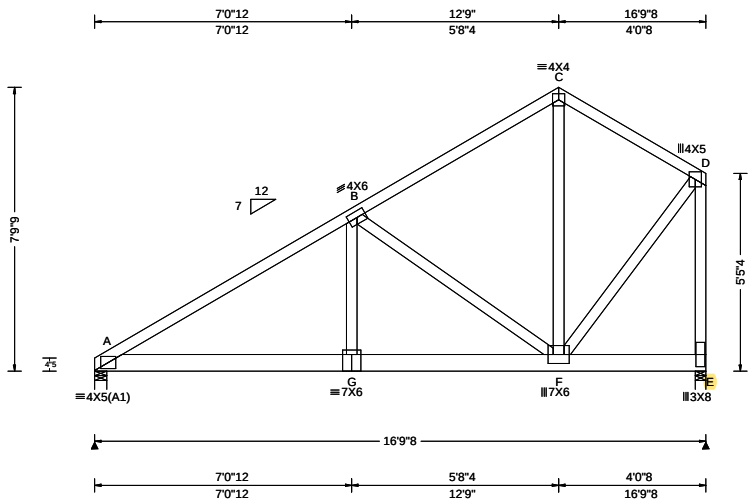
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4189 SPEC FROM: SDY	Ply: 2 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A19	Cust: R 215 JRef:1X2L2150004 T52 DrwNo: 034.21.0815.48097 / YK 02/03/2021	

2 Complete Trusses Required



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.061	G	999	240
VERT(CL): 0.112	G	999	180
HORZ(LL): -0.013	C	-	-
HORZ(TL): 0.024	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.421
Max BC CSI: 0.441
Max Web CSI: 0.732

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	2891	/-	/-	/-	/614	/-
E	4232	/-	/-	/-	/905	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
E Brg Width = 3.5 Min Req = 1.8
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	585	- 2678	C - D	267	- 1208
B - C	266	- 1205			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	2271	- 486	G - F	2245	- 481

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	1500	- 284	F - D	1635	- 353
B - F	323	- 1516	D - E	427	- 1920
C - F	1091	- 211			

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

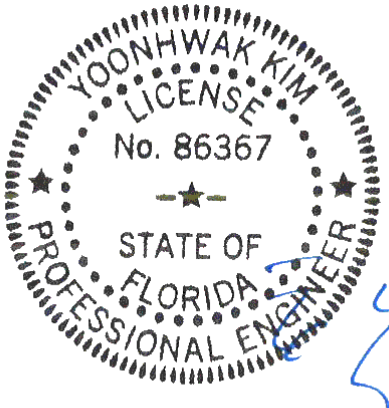
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	56 plf at	0.00 to	56 plf at	7.06
TC: From	28 plf at	7.06 to	28 plf at	12.75
TC: From	56 plf at	12.75 to	56 plf at	16.79
BC: From	20 plf at	0.00 to	20 plf at	7.06
BC: From	10 plf at	7.06 to	10 plf at	16.79

BC: 2085 lb Conc. Load at 7.06
BC: 963 lb Conc. Load at 9.06,11.06
BC: 1045 lb Conc. Load at 13.06,15.06

Wind

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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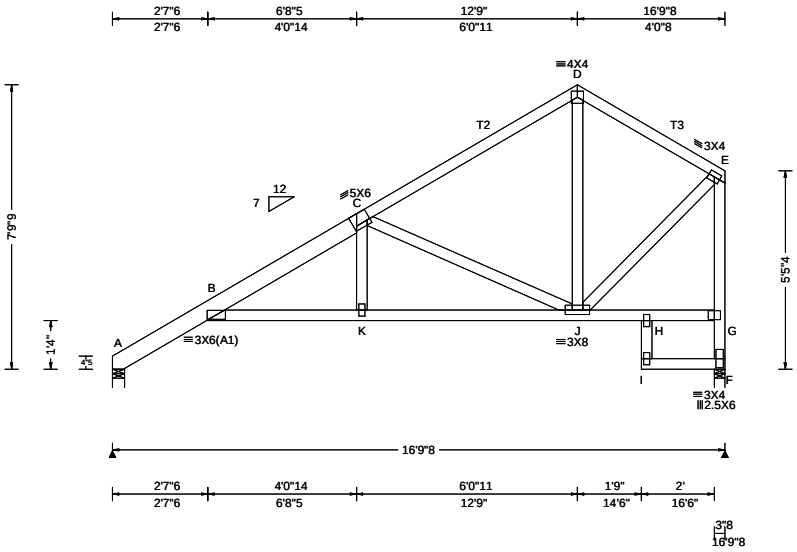
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4272 SPEC FROM: SDY	Ply: 1 Qty: 8	**Job Number:** 20-4975 Jimenez **Truss Label:** A20	Cust: R 215 JRef:1X2L2150004 T36 DrwNo: 034.21.0815.51820 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.170	K	999	240
VERT(CL): 0.306	K	646	180
HORZ(LL): 0.128	I	-	-
HORZ(TL): 0.234	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.445
Max BC CSI: 0.420
Max Web CSI: 0.620

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
A	602	/-	/-		/321	/149	/281
F	625	/-	/-		/354	/135	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
F Brg Width = 3.5 Min Req = 1.5
Bearings A & 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	504	- 1082	D - E	297	- 434
C - D	296	- 486			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1044	- 817	K - J	1045	- 809

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	561	- 771	G - E	353	- 596
J - E	456	- 261	G - F	350	- 601

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2 2x4 SP M-31;
T3 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

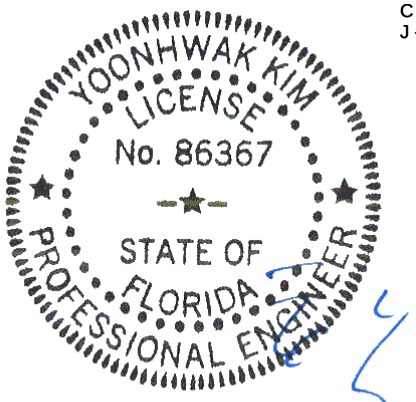
Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/360.

Wind loading based on both gable and hip roof types.

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



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02/03/2021

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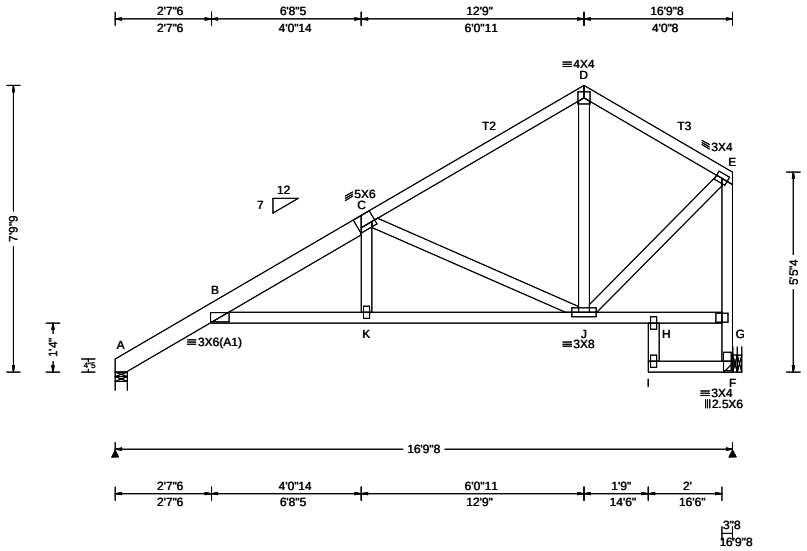
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4249 SPEC FROM: SDY	Ply: 1 Qty: 3	**Job Number:** 20-4975 Jimenez **Truss Label:** A21	Cust: R 215 JRef:1X2L2150004 T37 DrwNo: 034.21.0815.54510 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.170	K	999	240
VERT(CL): 0.306	K	646	180
HORZ(LL): 0.128	I	-	-
HORZ(TL): 0.234	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.445
Max BC CSI: 0.420
Max Web CSI: 0.620

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	602	/-	/-	/328	/129	/191
F	625	/-	/-	/347	/156	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
F Brg Width = - 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.
B - C	264	-1082	D - E	151	-434
C - D	144	-486			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1044	-380	K - J	1045	-374

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	311	-771	G - E	191	-596
J - E	456	-118	G - F	188	-601

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2 2x4 SP M-31;
T3 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

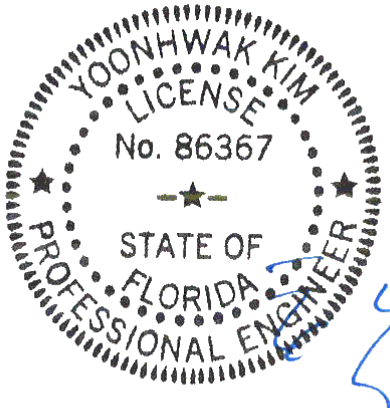
Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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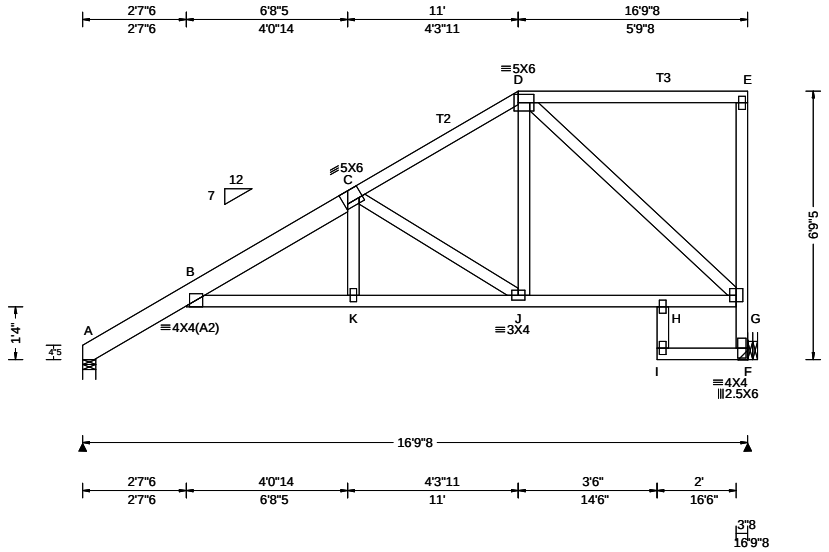
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4269 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A22	Cust: R 215 JRef:1X2L2150004 T33 DrwNo: 034.21.0815.56907 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.171	K	999	240
VERT(CL): 0.309	K	640	180
HORZ(LL): 0.132	I	-	-
HORZ(TL): 0.241	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.468
Max BC CSI: 0.407
Max Web CSI: 0.688

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	602	/-	/-	/342	/114	/226
F	625	/-	/-	/352	/181	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
F Brg Width = - 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.
B - C	512	- 1045	C - D	368	- 631

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1003	- 750	J - H	491	- 386
K - J	1002	- 743	H - G	496	- 382

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	416	- 601	D - G	512	- 646
D - J	436	- 141	G - F	532	- 600

Lumber

Top chord: 2x6 SP 2400f-2.0E; T2 2x4 SP M-31;
T3 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes

All plates are 2X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

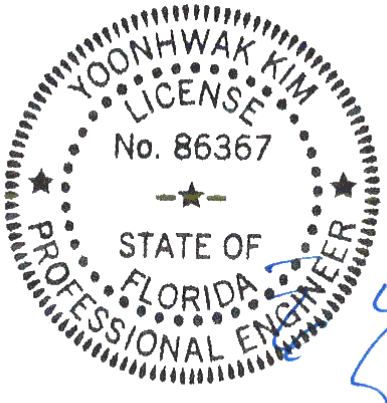
Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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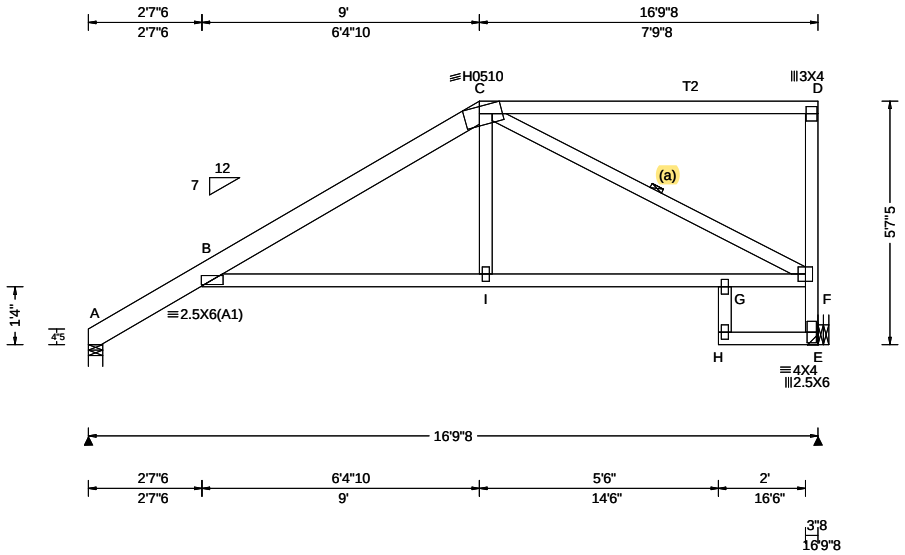
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4266 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A23	Cust: R 215 JRef:1X2L2150004 T45 DrwNo: 034.21.0815.59017 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.224	I	882	240
VERT(CL): 0.408	I	484	180
HORZ(LL): 0.165	H	-	-
HORZ(TL): 0.302	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.940
Max BC CSI: 0.658
Max Web CSI: 0.354

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	602	/-	/-	/335	/129	/184
E	625	/-	/-	/329	/167	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
E Brg Width = - 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.
B - C	461	-856

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	776	-544	G - F	789	-531
I - G	778	-538			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - F	581	-846	F - E	508	-598

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

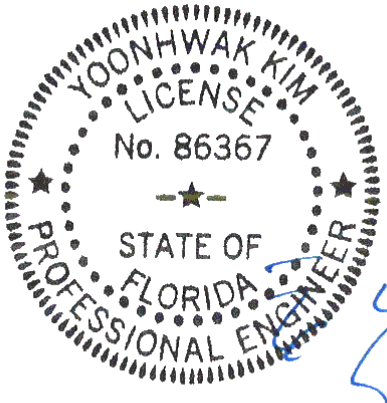
Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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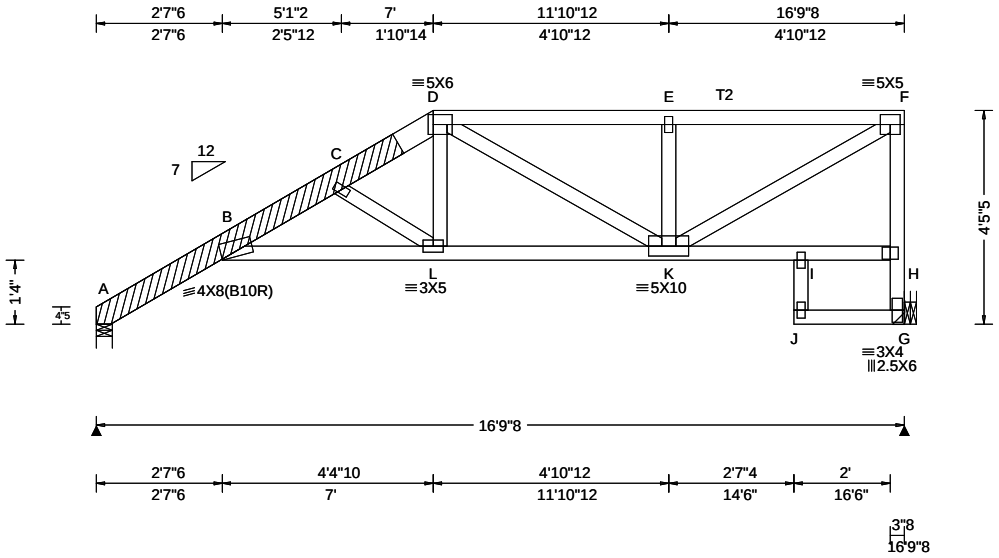
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4263 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** A24		Cust: R 215 JRef:1X2L2150004 T43 DrwNo: 034.21.0816.01110 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 11.49 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.180	C	999	240
VERT(CL): 0.346	C	572	180
HORZ(LL): 0.145	J	-	-
HORZ(TL): 0.278	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.775
Max Web CSI: 0.815

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1170	/-	/-	/-	/236	/-
G	1400	/-	/-	/-	/279	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
G Brg Width = - 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	116	- 578	D - E	376	- 1880
B - C	614	- 2979	E - F	375	- 1877
C - D	507	- 2550			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	2992	- 607	L - K	2239	- 447

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - L	201	- 936	K - F	2140	- 428
D - L	1030	- 106	H - F	321	- 1306
D - K	83	- 415	H - G	304	- 1342
E - K	295	- 627			

Lumber
Top chord: 2x6 SP 2400f-2.0E; T2 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

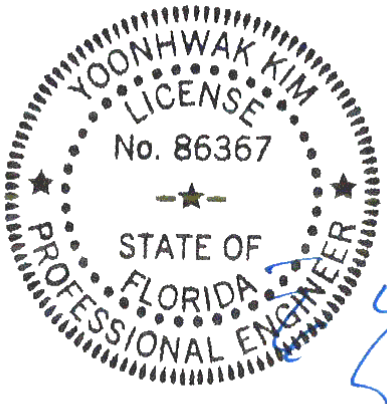
Plating Notes
All plates are 2X4 except as noted.

Tray Scab(s)
(1) 2x6x7-3-12 x SP 2400f-2.0E scab at left end. Attach scab to face of chord with: 0.128"x3", min. nails @ 8" oc, plus additional nail clusters at: BRG.: (5), heel: (9), 1st panel point: (5).

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

Loading
#1 hip supports 7-0-0 jacks with no webs.

Wind
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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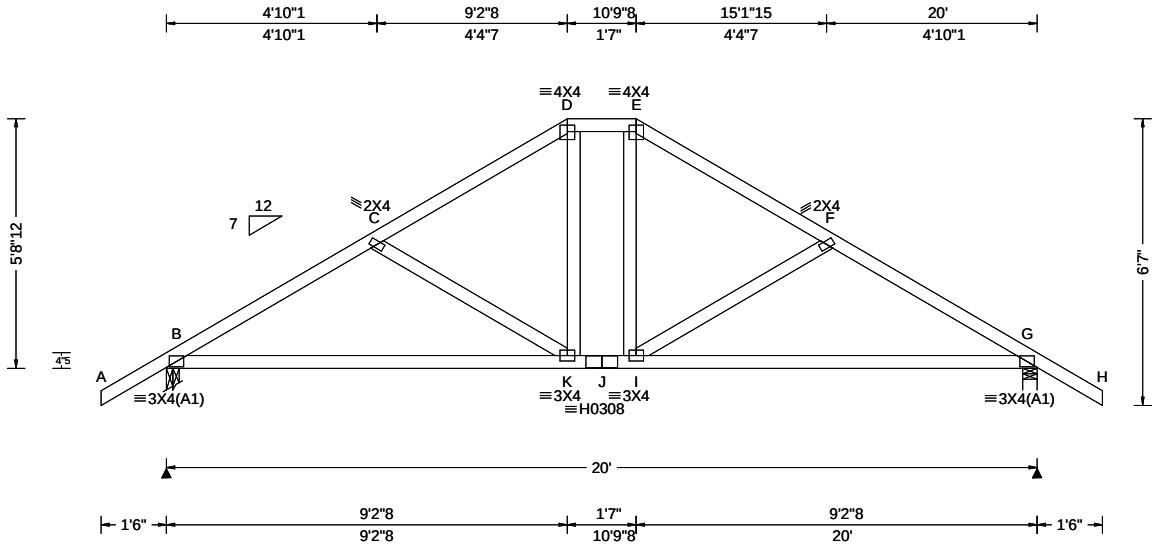
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4139 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** B01		Cust: R 215 JRef:1X2L2150004 T54 DrwNo: 034.21.0816.02980 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.030	I	999	240
VERT(CL): 0.063	I	999	180
HORZ(LL): 0.015	I	-	-
HORZ(TL): 0.027	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.234
Max BC CSI: 0.733
Max Web CSI: 0.163

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	853	/-	/-	/487	/184	/183
G	853	/-	/-	/487	/184	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
G Brg Width = 4.0 Min Req = 1.5
Bearings B & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

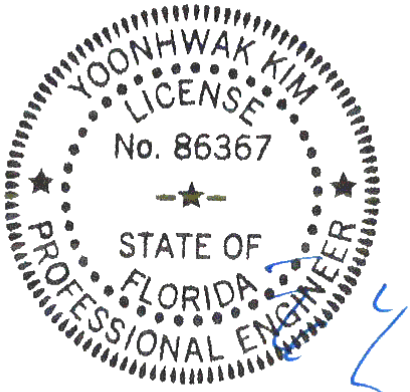
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	355	- 1115	E - F	301	- 870
C - D	301	- 870	F - G	355	- 1115
D - E	296	- 691			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	914	- 200	J - I	691	- 68
K - J	691	- 68	I - G	914	- 208

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.



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02/03/2021

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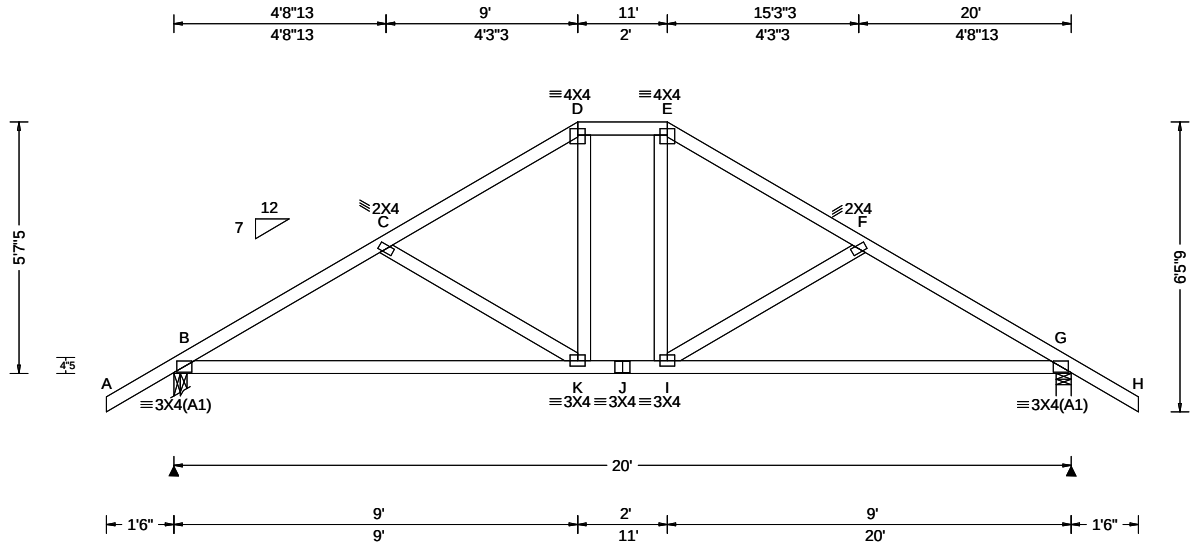
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4136 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** B02		Cust: R 215 JRef:1X2L2150004 T19 DrwNo: 034.21.0816.04293 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.030	I	999	240
VERT(CL): 0.072	I	999	180
HORZ(LL): 0.015	I	-	-
HORZ(TL): 0.028	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.278
Max BC CSI: 0.674
Max Web CSI: 0.153

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	853	/-	/-	/487	/184	/179
G	853	/-	/-	/487	/184	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
G Brg Width = 4.0 Min Req = 1.5
Bearings B & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

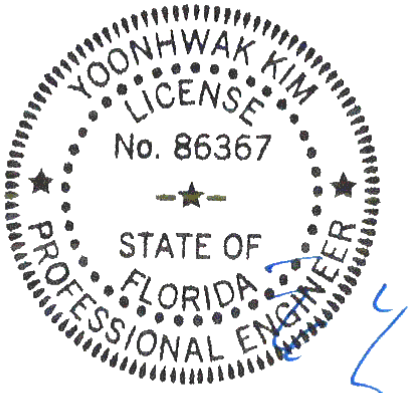
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	374	-1118	E - F	321	-880
C - D	322	-880	F - G	374	-1118
D - E	314	-702			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	918	-216	J - I	702	-90
K - J	702	-90	I - G	918	-225

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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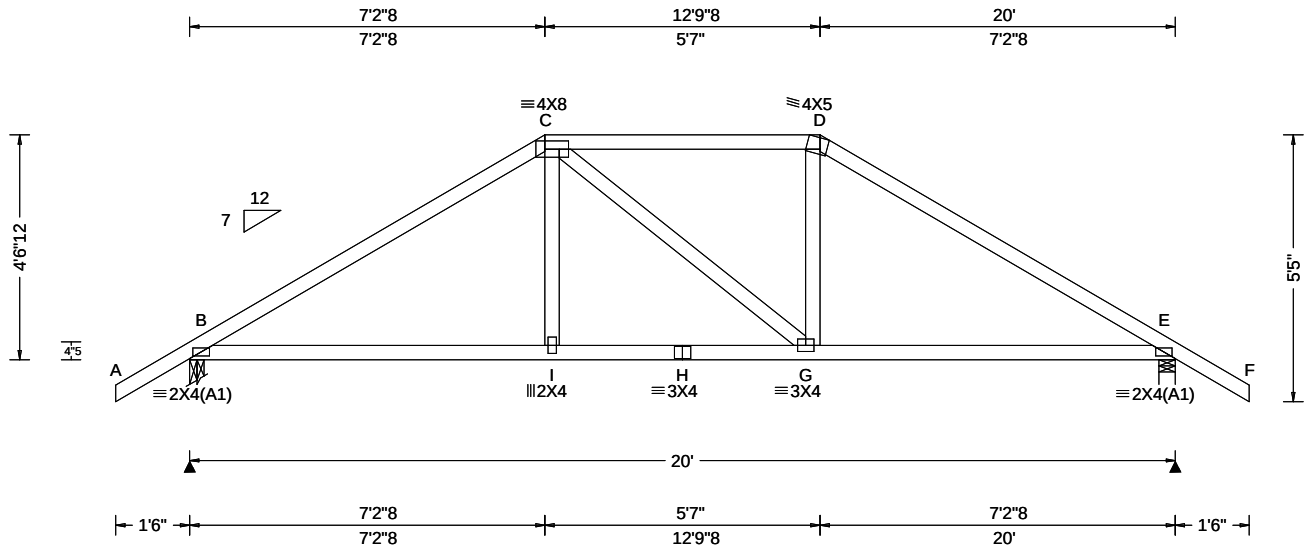
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4142 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** B03		Cust: R 215 JRef:1X2L2150004 T20 DrwNo: 034.21.0816.05513 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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):	0.024 I	999	240
VERT(CL):	0.045 I	999	180
HORZ(LL):	0.013 G	-	-
HORZ(TL):	0.024 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.503
Max BC CSI: 0.510
Max Web CSI: 0.096

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	853	/-	/-	/486	/186	/152
E	853	/-	/-	/486	/186	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
E Brg Width = 4.0 Min Req = 1.5
Bearings B & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	497	-1062	D - E	497	-1060
C - D	487	-844			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	836	-304	H - G	840	-302
I - H	840	-302	G - E	834	-312

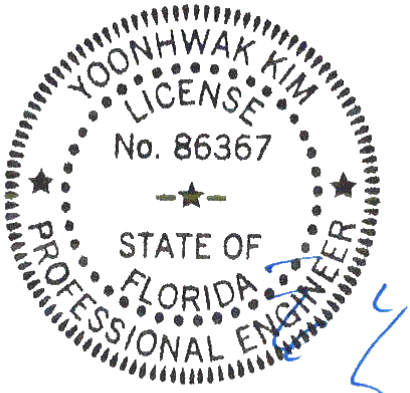
Lumber

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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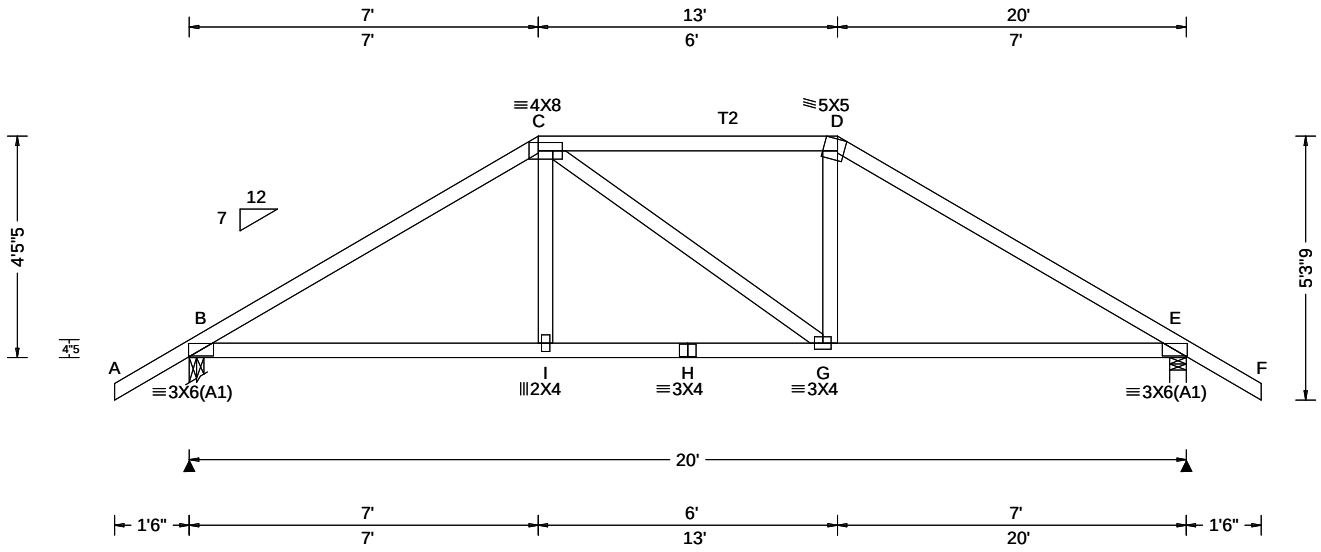
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4133 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** B04		Cust: R 215 JRef:1X2L2150004 T21 DrwNo: 034.21.0816.06790 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 11.06 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.072	I	999	240
VERT(CL): 0.136	I	999	180
HORZ(LL): 0.034	G	-	-
HORZ(TL): 0.065	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.580
Max BC CSI: 0.874
Max Web CSI: 0.245

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1568	/-	/-	/-	/337	/-
E	1570	/-	/-	/-	/337	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.9
E Brg Width = 4.0 Min Req = 1.9
Bearings B & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	-2449	D - E	511	-2445
C - D	405	-2079			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	2036	-405	H - G	2059	-404
I - H	2059	-404	G - E	2034	-406

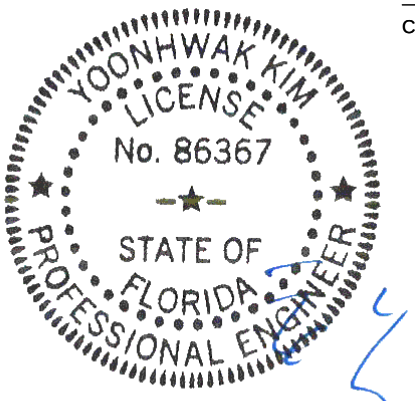
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	631	0	G - D	642	0

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

Loading
#1 hip supports 7-0-0 jacks with no webs.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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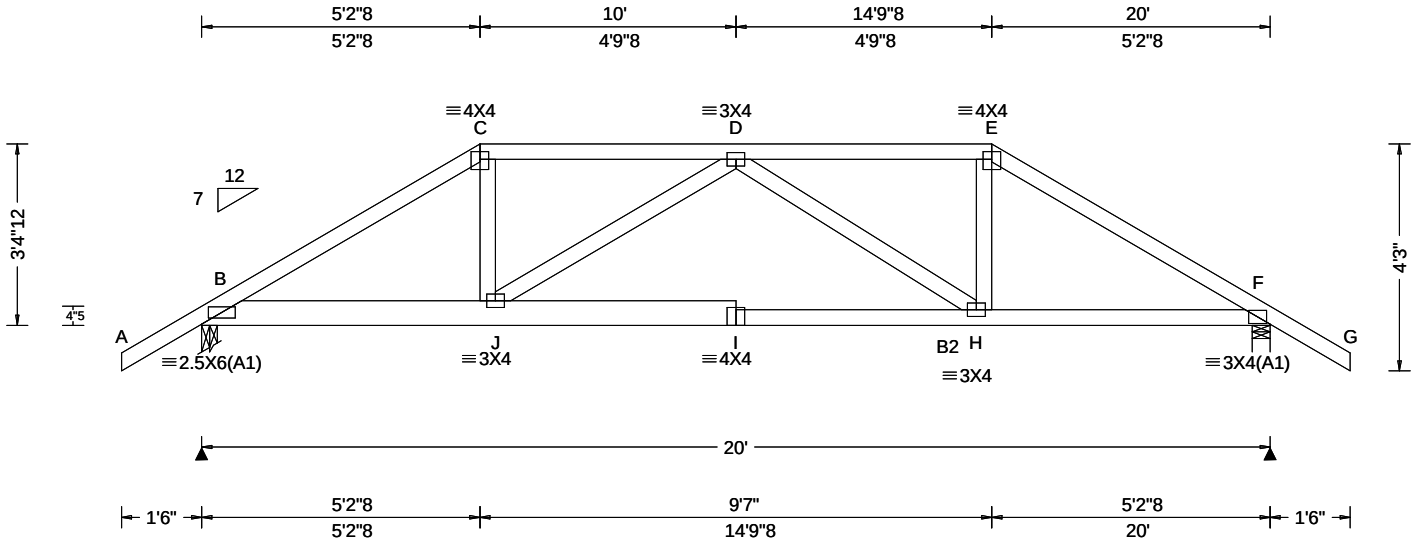
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4145 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** B05		Cust: R 215 JRef:1X2L2150004 T26 DrwNo: 034.21.0816.08040 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.050	D	999	240
VERT(CL): 0.093	D	999	180
HORZ(LL): 0.017	H	-	-
HORZ(TL): 0.031	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.389
Max BC CSI: 0.620
Max Web CSI: 0.314

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1548	/-	/-	/-	/277	/-
F	956	/-	/-	/-	/210	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
F Brg Width = 4.0 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	291	- 1810	D - E	195	- 1124
C - D	228	- 1577	E - F	260	- 1333

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	1519	- 227	I - H	1543	- 307
J - I	1544	- 307	H - F	1088	- 195

Maximum Web Forces Per Ply (lbs)

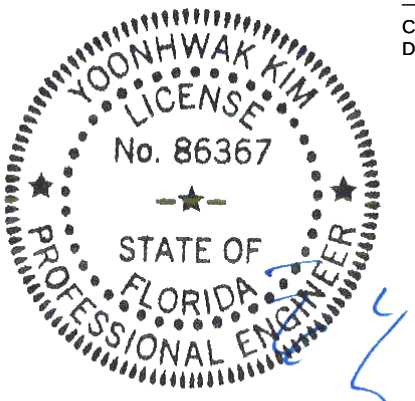
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	597	- 5	H - E	378	0
D - H	136	- 509			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x4 SP #2;
Webs: 2x4 SP #3;

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

TC: From	56 plf at	-1.50 to	56 plf at	21.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	20.00
BC: From	5 plf at	20.00 to	5 plf at	21.50
BC:	797 lb Conc. Load at	2.69		

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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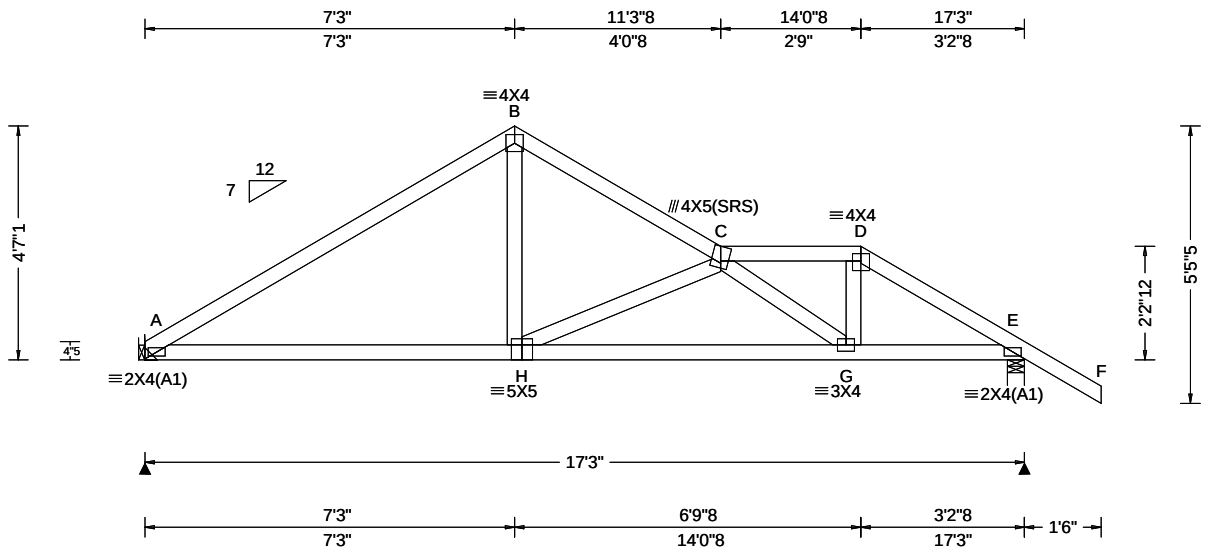
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4127 SPEC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** C01	Cust: R 215 JRef:1X2L2150004 T55 DrwNo: 034.21.0816.11207 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.036	C	999	240
VERT(CL): 0.068	C	999	180
HORZ(LL): 0.013	B	-	-
HORZ(TL): 0.024	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.565
Max BC CSI: 0.581
Max Web CSI: 0.246

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	652	/-	/-	/347	/23	/136
E	754	/-	/-	/421	/61	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
E Brg Width = 4.0 Min Req = 1.5
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	288	- 885	C - D	397	- 869
B - C	304	- 846	D - E	418	- 1000

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	687	- 115	G - E	816	- 281
H - G	1235	- 445			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	486	- 114	C - G	222	- 466
H - C	381	- 595			

Lumber

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

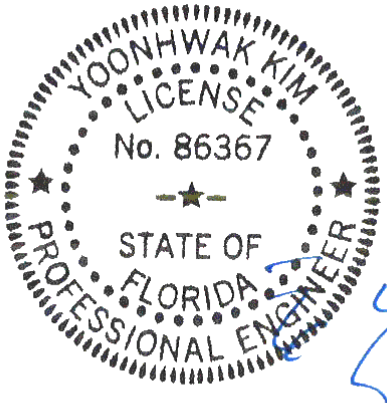
Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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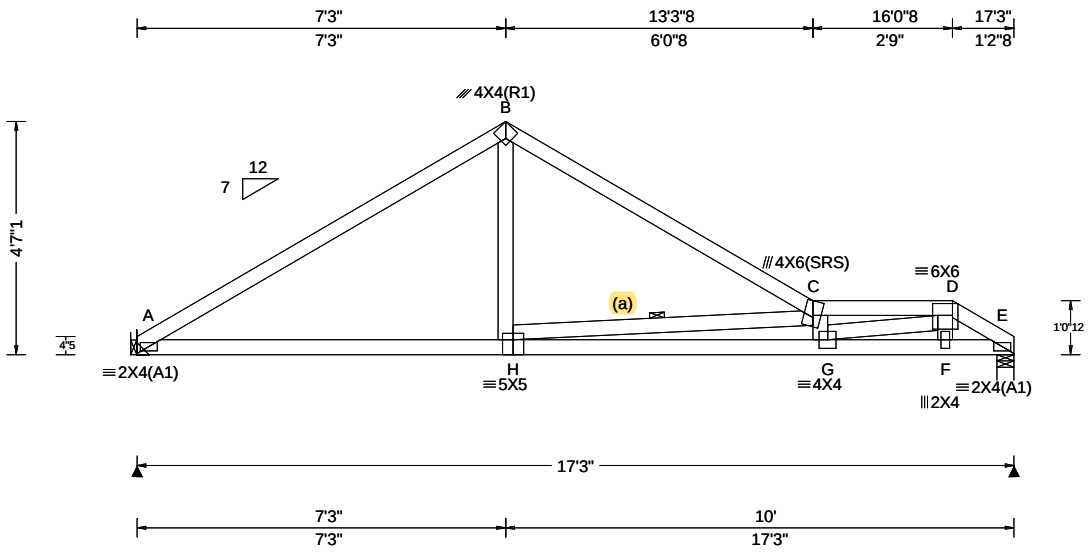
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4120 SPEC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** C02	Cust: R 215 JRef:1X2L2150004 T29 DrwNo: 034.21.0816.12840 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.121	C	999	240
VERT(CL): 0.231	C	881	180
HORZ(LL): 0.037	B	-	-
HORZ(TL): 0.070	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.497
Max BC CSI: 0.879
Max Web CSI: 0.535

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	656	/-	/-	/343	/24	/108
E	658	/-	/-	/340	/50	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
E Brg Width = 4.0 Min Req = 1.5
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	258	- 909	C - D	815	- 2240
B - C	269	- 905	D - E	465	- 1067

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	711	- 141	G - F	899	- 381
H - G	2399	- 873	F - E	889	- 381

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	477	- 51	C - G	229	- 443
H - C	743	- 1688	G - D	1404	- 429

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

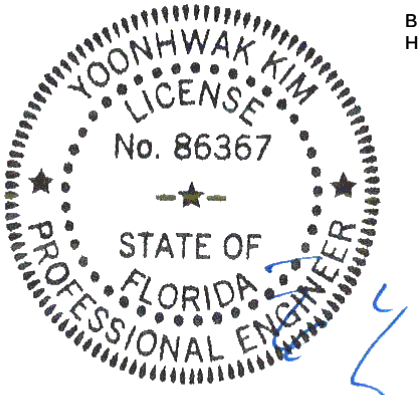
Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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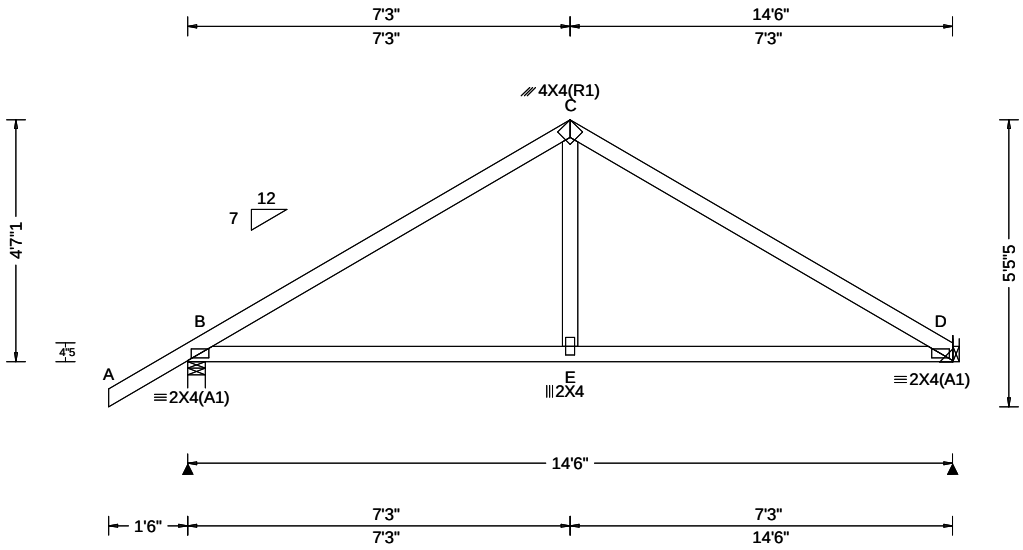
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4117 COMN FROM: SDY	Ply: 1 Qty: 3	**Job Number:** 20-4975 Jimenez **Truss Label:** C03	Cust: R 215 JRef:1X2L2150004 T4 DrwNo: 034.21.0816.14137 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): 0.013	E	999	240
VERT(CL): 0.024	E	999	180
HORZ(LL): 0.006	E	-	-
HORZ(TL): 0.010	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.508
Max BC CSI: 0.543
Max Web CSI: 0.124

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	650	/-	/-	/374	/30	/136
D	546	/-	/-	/296	/19	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	218	- 704	C - D	216	- 701

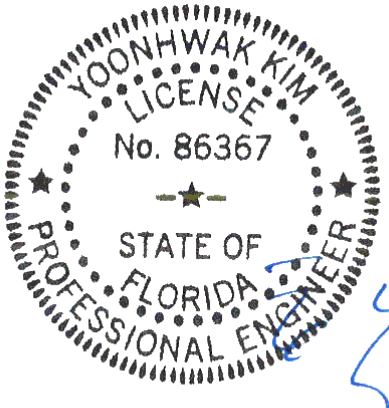
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - E	533	- 86	E - D	533	- 86

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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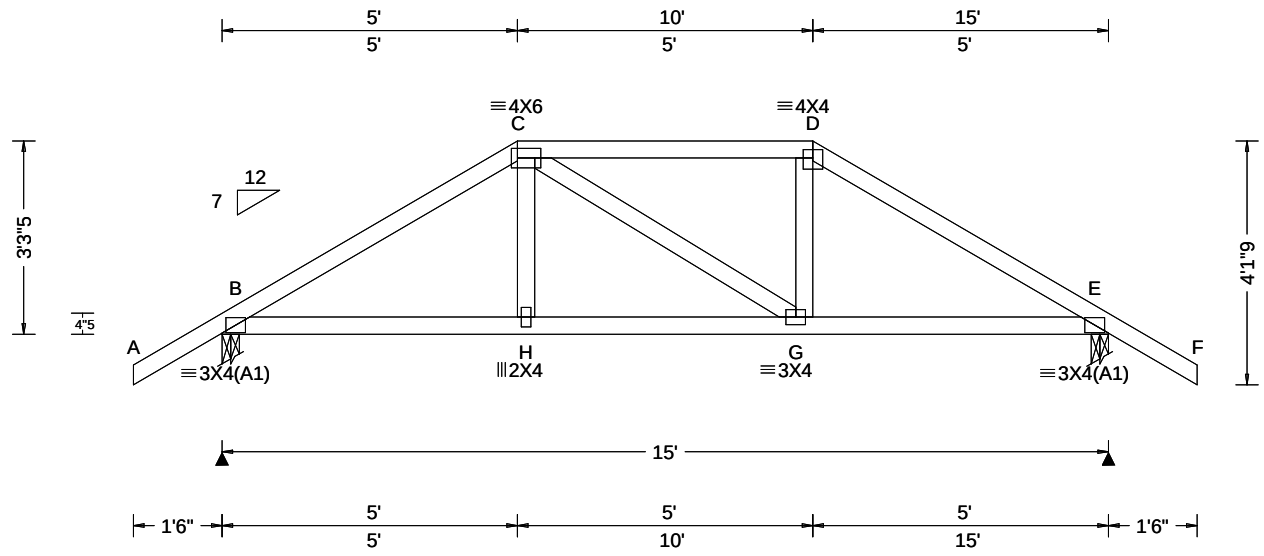
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4105 HIPS FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** D01	Cust: R 215 JRef:1X2L2150004 T32 DrwNo: 034.21.0816.15690 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.031	H	999	240
VERT(CL): 0.059	H	999	180
HORZ(LL): 0.015	G	-	-
HORZ(TL): 0.028	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.488
Max BC CSI: 0.406
Max Web CSI: 0.117

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	970	/-	/-	/-	/212	/-
E	970	/-	/-	/-	/212	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	276	-1371	D - E	277	-1366
C - D	210	-1154			

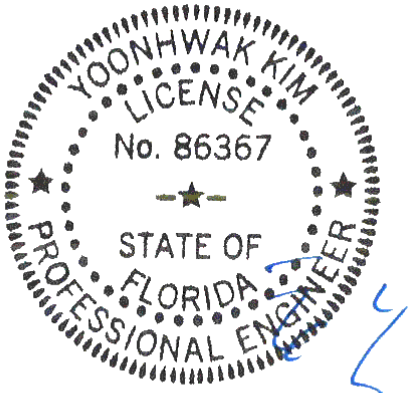
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1127	-213	G - E	1124	-214
H - G	1142	-212			

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

Loading
#1 hip supports 5-0-0 jacks with no webs.
Left side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang. End jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang. Right side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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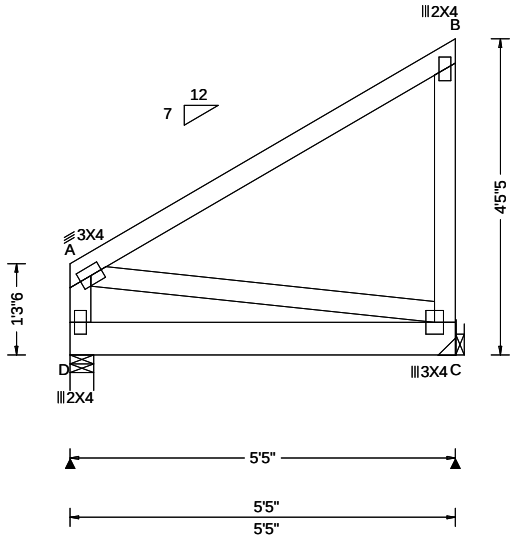
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4123 MONO FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** E01	Cust: R 215 JRef:1X2L2150004 T57 DrwNo: 034.21.0816.19877 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.001	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.535
Max BC CSI: 0.591
Max Web CSI: 0.138

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	891	/-	/-	/-	/82	/-
C	1105	/-	/-	/-	/89	/-

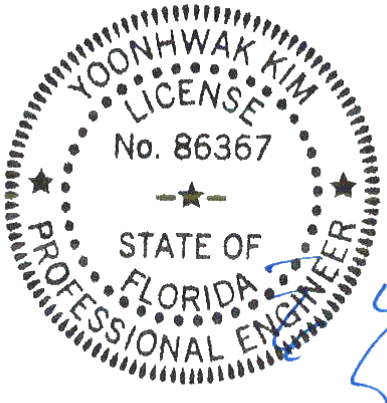
Wind reactions based on MWFRS
D Brg Width = 4.0 Min Req = 1.5
C Brg Width = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

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

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 56 plf at 0.00 to 56 plf at 5.42
BC: From 10 plf at 0.00 to 10 plf at 5.42
BC: 546 lb Conc. Load at 1.06, 3.06, 5.06

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

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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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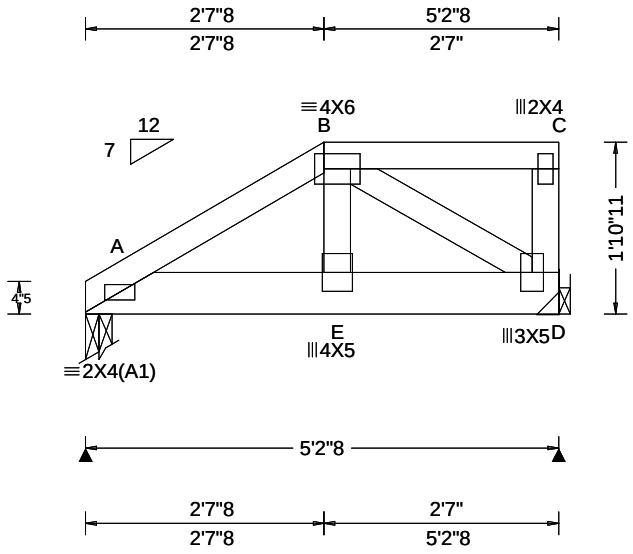
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4130 HIPM FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** E02	Cust: R 215 JRef:1X2L2150004 T31 DrwNo: 034.21.0816.23227 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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	E	999	240
VERT(CL): 0.016	E	999	180
HORZ(LL): 0.003	E	-	-
HORZ(TL): 0.005	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.156
Max BC CSI: 0.224
Max Web CSI: 0.350

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	987	/-	/-	/-	/94	/-
D	797	/-	/-	/-	/90	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	110	-1065

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	903	-83	E - D	992	-83

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - E	920	-2	B - D	94	-1140

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

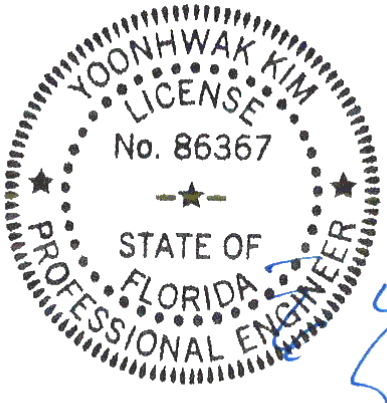
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	56 plf at	0.00 to	56 plf at	2.62	
TC: From	28 plf at	2.62 to	28 plf at	5.21	
BC: From	10 plf at	0.00 to	10 plf at	5.21	

TC: 71 lb Conc. Load at 2.66
TC: 44 lb Conc. Load at 4.69
BC: 656 lb Conc. Load at 1.27
BC: 47 lb Conc. Load at 2.66
BC: 652 lb Conc. Load at 3.27
BC: 42 lb Conc. Load at 4.69

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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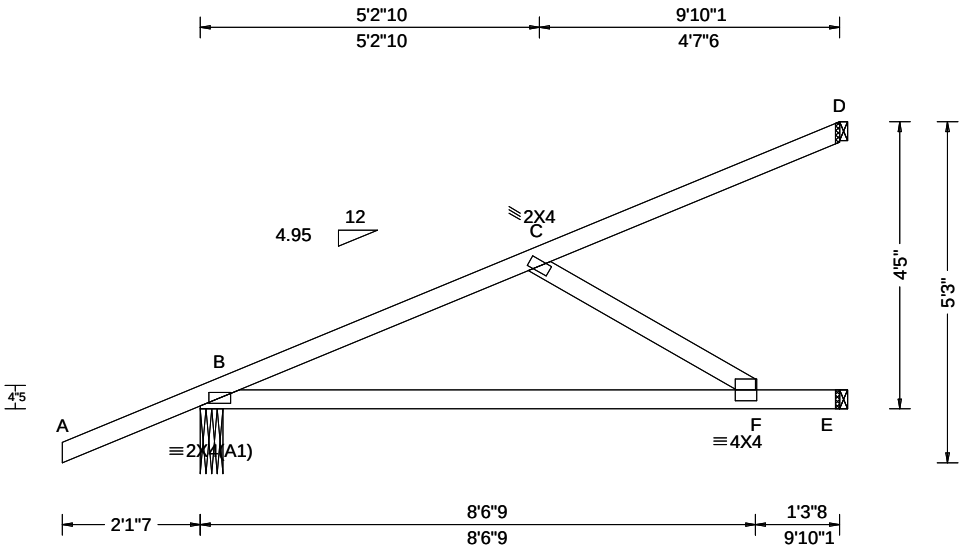
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4108 HIP_ FROM: SDY	Ply: 1 Qty: 4	**Job Number:** 20-4975 Jimenez **Truss Label:** HJ7	Cust: R 215 JRef:1X2L2150004 T24 DrwNo: 034.21.0816.26457 / YK 02/03/2021



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.154	F	756	240
VERT(CL): 0.285	F	407	180
HORZ(LL): 0.040	C	-	-
HORZ(TL): 0.075	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.618
Max BC CSI: 0.484
Max Web CSI: 0.155

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	421	/-	/-	/-	/104	/-
E	331	/-	/-	/-	/10	/-
D	236	/-	/-	/-	/104	/-

Wind reactions based on MWFRS
B Brg Width = 4.2 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	177	-405

Maximum Web Forces Per Ply (lbs)

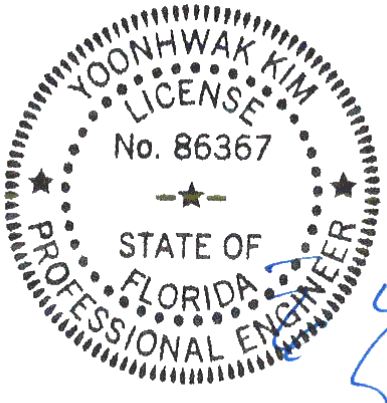
Webs	Tens.	Comp.
C - F	182	-434

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

Loading
Hipjack supports 6-11-8 setback jacks with no webs.

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (3) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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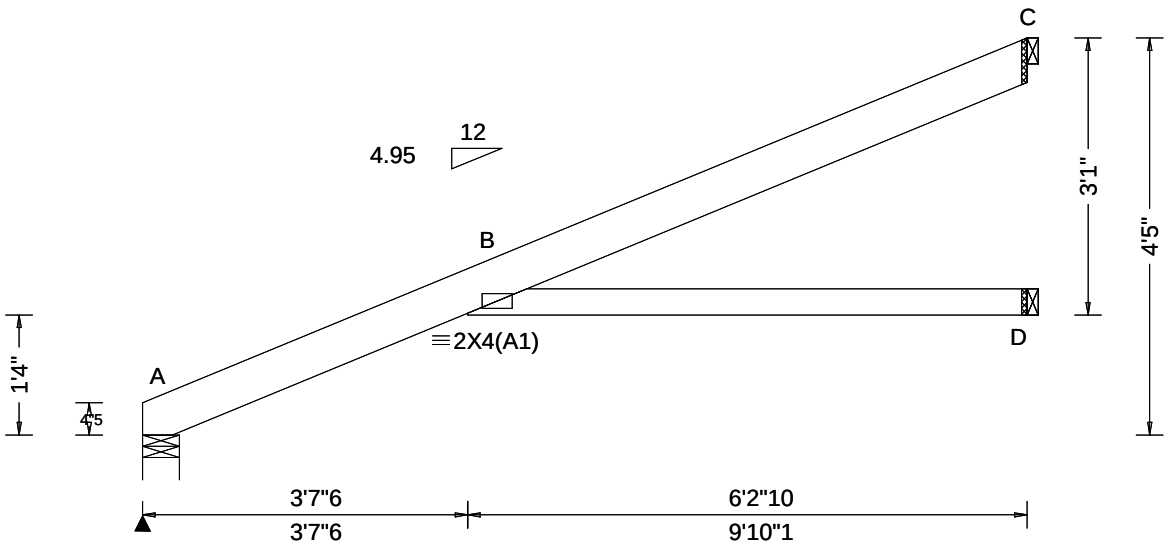
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4252 HIP_ FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** HJ7A	Cust: R 215 JRef:1X2L2150004 T30 DrwNo: 034.21.0816.27710 / YK 02/03/2021



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	D	571	240
VERT(CL): 0.381	D	299	180
HORZ(LL): 0.089	D	-	-
HORZ(TL): 0.170	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.549
Max BC CSI: 0.419
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	305	/-	/-	/-	/63	/-
D	113	/-	/-	/56	/-	/-
C	466	/-	/-	/-	/175	/-

Wind reactions based on MWFRS
A Brg Width = 4.9 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

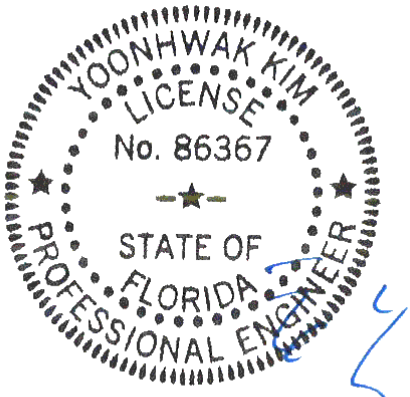
Lumber
Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;

Loading
Hipjack supports 6-11-8 setback jacks with no webs.

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

Additional Notes
Refer to General Notes for additional information

Provide (4) 16d common 0.162"x3.5", toe-nails at TC.
Provide (3) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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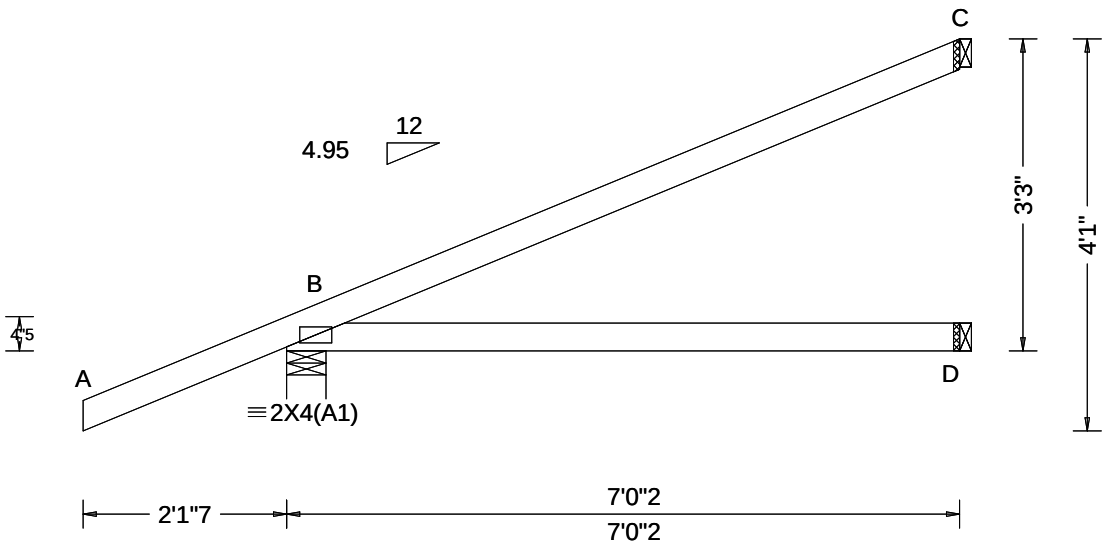
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4090 HIP_ FROM: SDY	Ply: 1 Qty: 3	**Job Number:** 20-4975 Jimenez **Truss Label:** HJ5	Cust: R 215 JRef:1X2L2150004 T15 DrwNo: 034.21.0817.11597 / YK 02/03/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.008 D - -
HORZ(TL): 0.014 D - -
Creep Factor: 2.0
Max TC CSI: 0.624
Max BC CSI: 0.304
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	279	/-	/-	/-	/76	/-
D	78	/-	/-	/30	/-	/-
C	188	/-	/-	/-	/81	/-

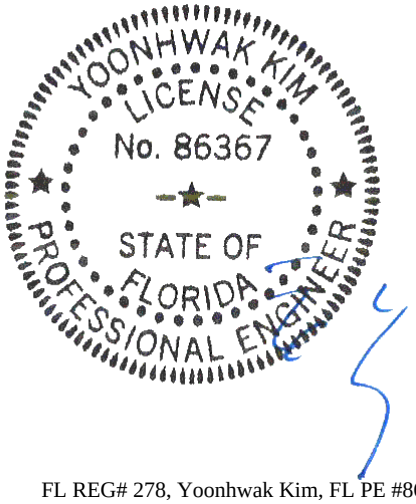
Wind reactions based on MWFRS
B Brg Width = 4.9 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

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

Loading
Hipjack supports 4-11-8 setback jacks with no webs.

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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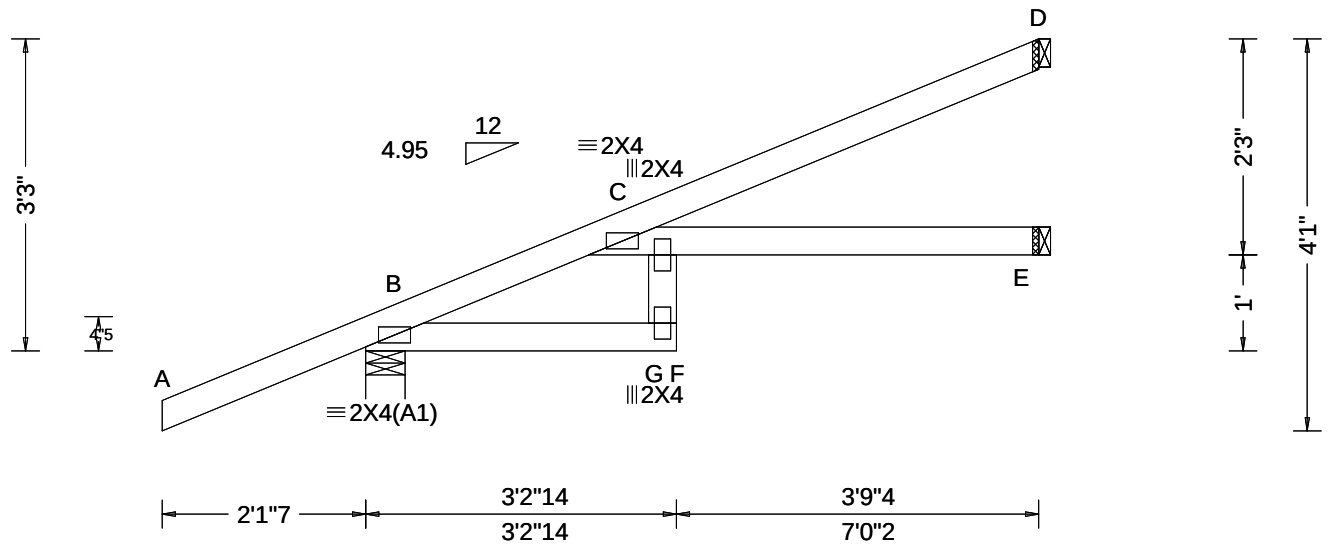
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4093 HIP_ FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** HJ5A	Cust: R 215 JRef:1X2L2150004 T14 DrwNo: 034.21.0817.13473 / YK 02/03/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): -0.104	F	790	240
VERT(CL): 0.209	F	394	180
HORZ(LL): -0.047	G	-	-
HORZ(TL): 0.084	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.565
Max BC CSI: 0.352
Max Web CSI: 0.199

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	246	/-	/-	/-	/157	/-
E	107	/-	/-	/-	/10	/-
D	75	/-	/-	/-	/40	/-

Wind reactions based on MWFRS
B Brg Width = 4.9 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Special Loads

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

TC: From	0 plf at	-2.12 to	55 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	7.01
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	7.01

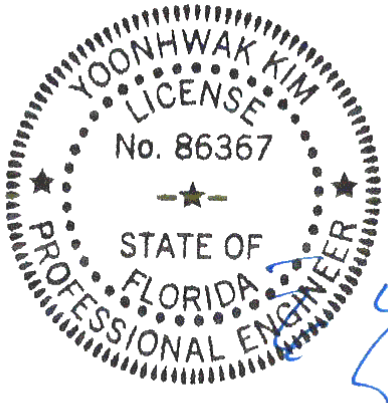
TC: -33 lb Conc. Load at 1.41
TC: 119 lb Conc. Load at 4.24
BC: 14 lb Conc. Load at 1.41
BC: 71 lb Conc. Load at 4.24

Wind

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

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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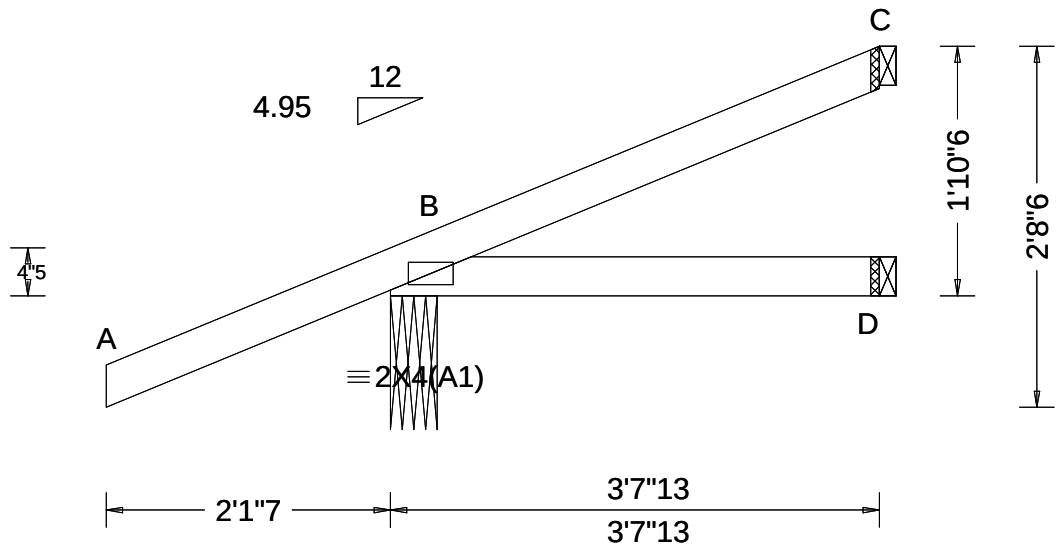
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4111 HIP_ FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** HJ2	Cust: R 215 JRef:1X2L2150004 T53 DrwNo: 034.21.0817.15400 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.002 D - - HORZ(TL): 0.003 D - - Creep Factor: 2.0 Max TC CSI: 0.362 Max BC CSI: 0.115 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	176	/-	/-	/-	/56	/-
D	4	/-	/-	/13	/-	/-
C	28	/-	/-	/-	/14	/-

Wind reactions based on MWFRS
B Brg Width = 4.2 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Loading

Hipjack supports 2-7-0 setback jacks with no webs.

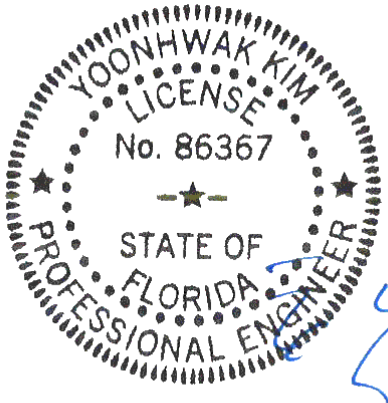
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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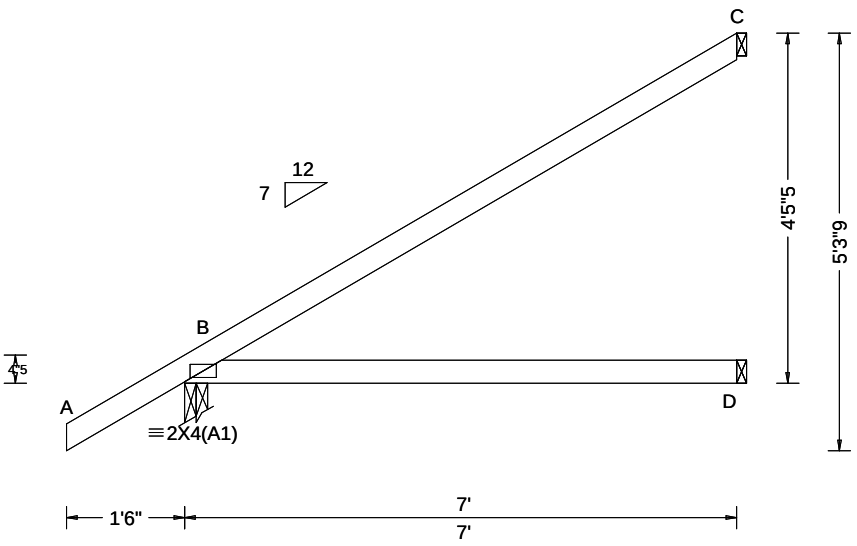
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4069 EJAC FROM: SDY	Ply: 1 Qty: 15	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ7		Cust: R 215 JRef:1X2L2150004 T23 DrwNo: 034.21.0817.16713 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.014 D - - HORZ(TL): 0.025 D - - Creep Factor: 2.0 Max TC CSI: 0.658 Max BC CSI: 0.502 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	376	/-	/-	/243	/43	/168
D	127	/-	/-	/71	/-	/-
C	170	/-	/-	/104	/108	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

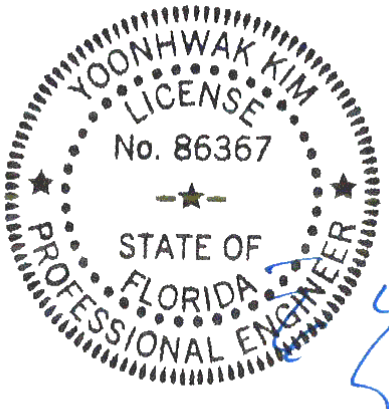
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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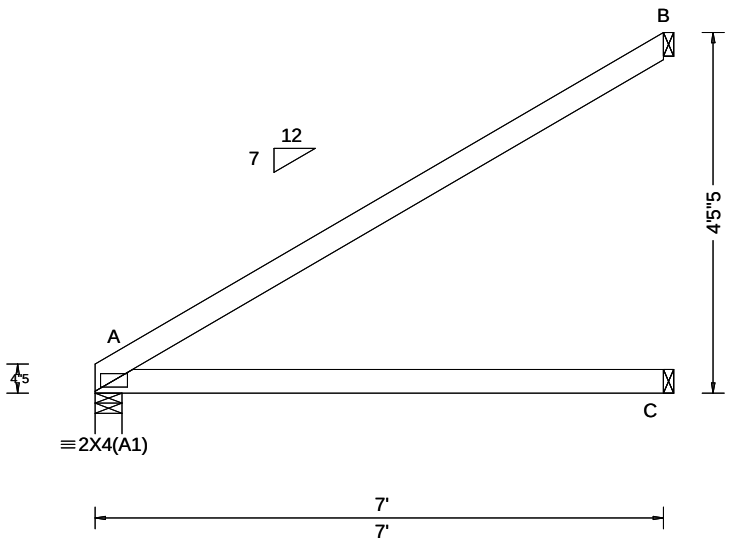
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4176 EJAC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ7A	Cust: R 215 JRef:1X2L2150004 T25 DrwNo: 034.21.0817.18000 / YK 02/03/2021



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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): NA
VERT(CL): NA
HORZ(LL): 0.016 C - -
HORZ(TL): 0.030 C - -
Creep Factor: 2.0
Max TC CSI: 0.705
Max BC CSI: 0.517
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

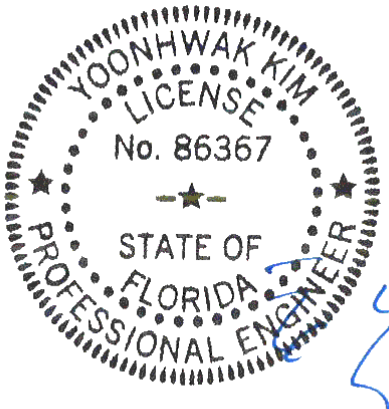
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	272	/-	/-	/160	/-	/104
C	129	/-	/-	/76	/-	/-
B	176	/-	/-	/110	/72	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
C Brg Width = 1.5 Min Req = -
B Brg Width = 1.5 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

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

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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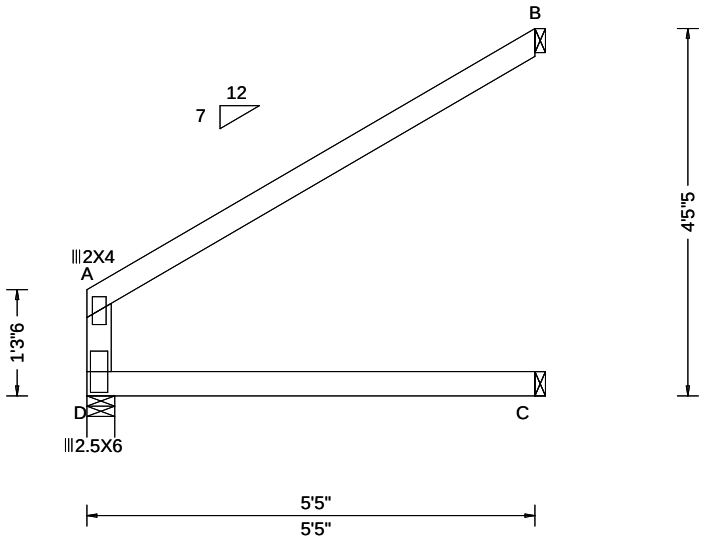
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4114 EJAC FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ7B		Cust: R 215 JRef:1X2L2150004 T1 DrwNo: 034.21.0817.19207 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 240 VERT(CL): 0.000 A 999 180 HORZ(LL): -0.000 A - - HORZ(TL): 0.000 A - - Creep Factor: 2.0 Max TC CSI: 0.624 Max BC CSI: 0.364 Max Web CSI: 0.069 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	206	/-	/-	/145	/38	/-
C	108	/-	/-	/54	/-	/-
B	152	/-	/-	/68	/20	/81

Wind reactions based on MWFRS
D Brg Width = 4.0 Min Req = 1.5
C Brg Width = 1.5 Min Req = -
B Brg Width = 1.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

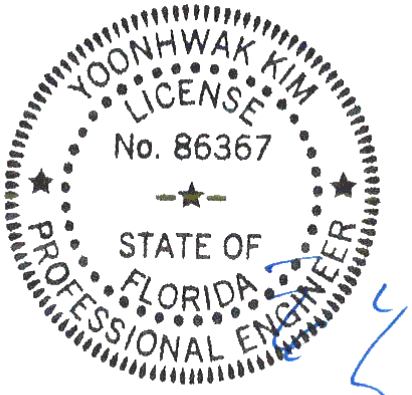
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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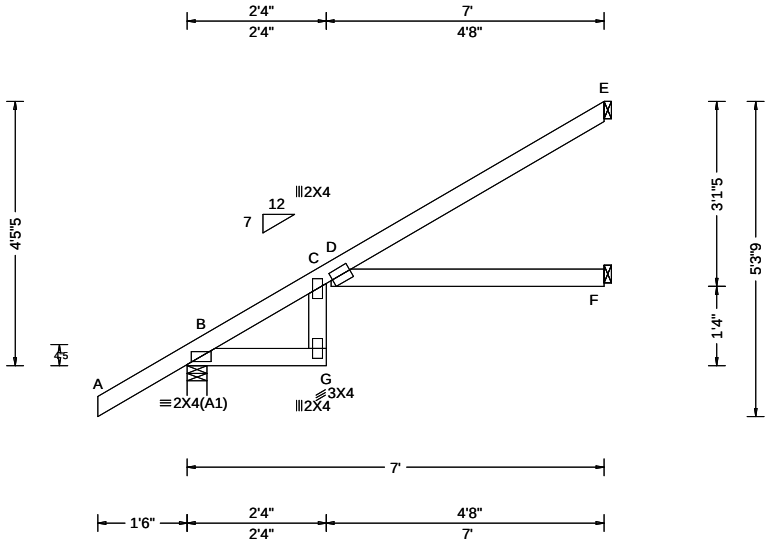
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4275 EJAC FROM: SDY	Ply: 1 Qty: 4	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ7C	Cust: R 215 JRef:1X2L2150004 T27 DrwNo: 034.21.0817.20433 / YK 02/03/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.201	G	408	240
VERT(CL): 0.369	G	222	180
HORZ(LL): 0.130	F	-	-
HORZ(TL): 0.239	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.873
Max BC CSI: 0.287
Max Web CSI: 0.110

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	374	/-	/-	/241	/44	/168
F	99	/-	/-	/55	/-	/-
E	188	/-	/-	/120	/107	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

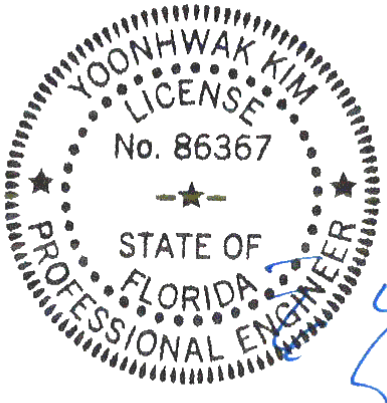
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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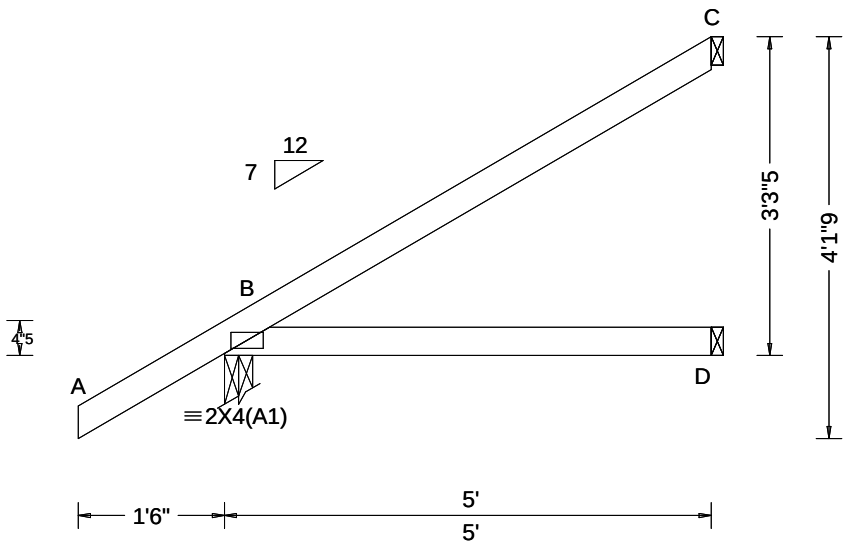
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4075 EJAC FROM: SDY	Ply: 1 Qty: 7	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ5		Cust: R 215 JRef:1X2L2150004 T13 DrwNo: 034.21.0817.21667 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.007 D - - Creep Factor: 2.0 Max TC CSI: 0.334 Max BC CSI: 0.245 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	304	/-	/-	/202	/42	/127
D	89	/-	/-	/51	/-	/-
C	116	/-	/-	/70	/75	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

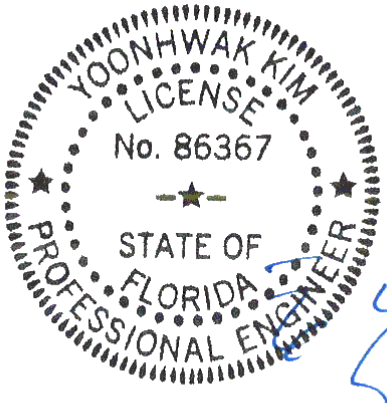
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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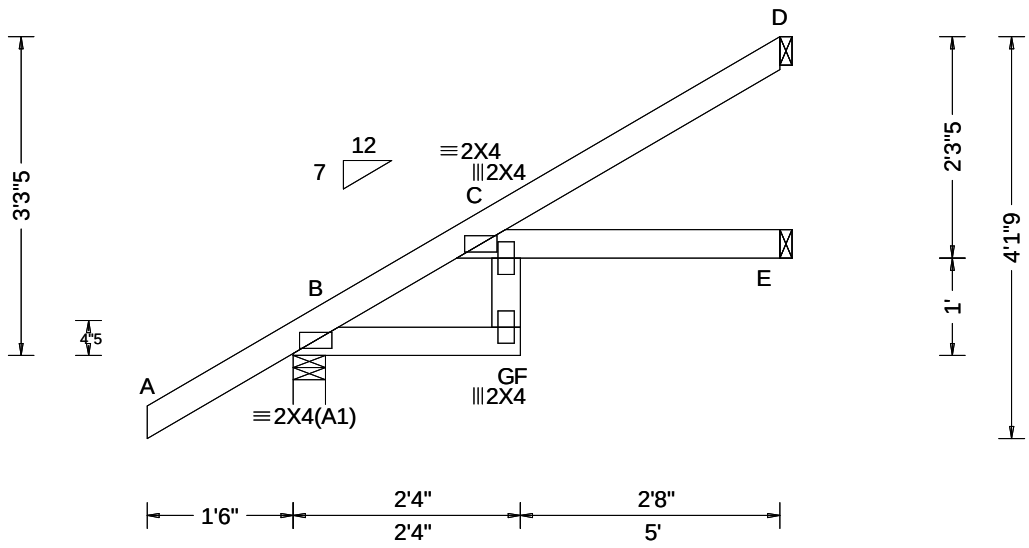
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4078 EJAC FROM: SDY	Ply: 1 Qty: 6	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ5A		Cust: R 215 JRef:1X2L2150004 T3 DrwNo: 034.21.0817.23063 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.042 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.076 F 762 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 G - -
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.045 G - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.329
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.172
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.130
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.12
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	304	/-	/-	/202	/42	/127
E	75	/-	/-	/43	/-	/-
D	120	/-	/-	/75	/70	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

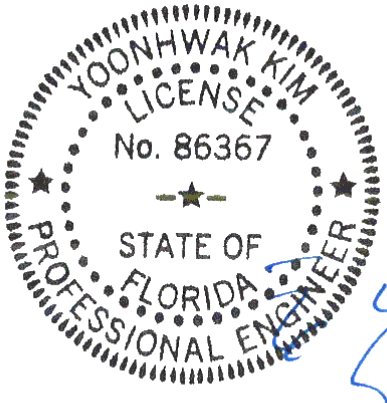
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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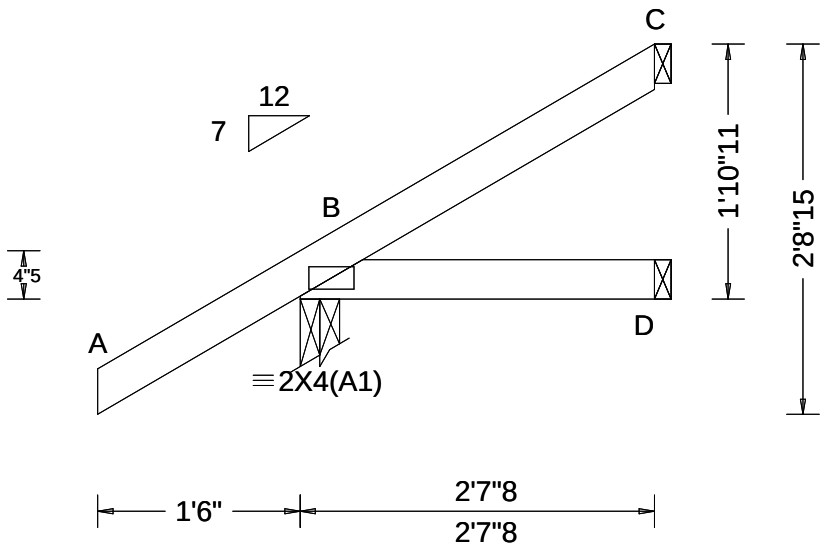
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4072 EJAC FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** EJ2	Cust: R 215 JRef:1X2L2150004 T42 DrwNo: 034.21.0817.24127 / YK 02/03/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.236 Max BC CSI: 0.051 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	230	/-	/-	/163	/44	/78
D	42	/-	/-	/29	/-	/-
C	44	/-	/-	/27	/33	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

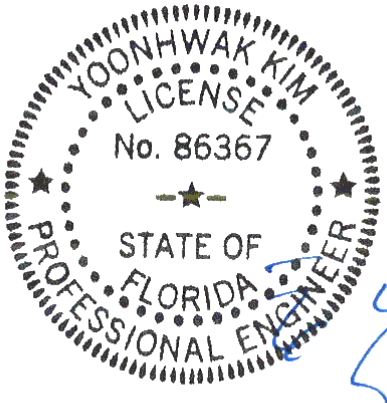
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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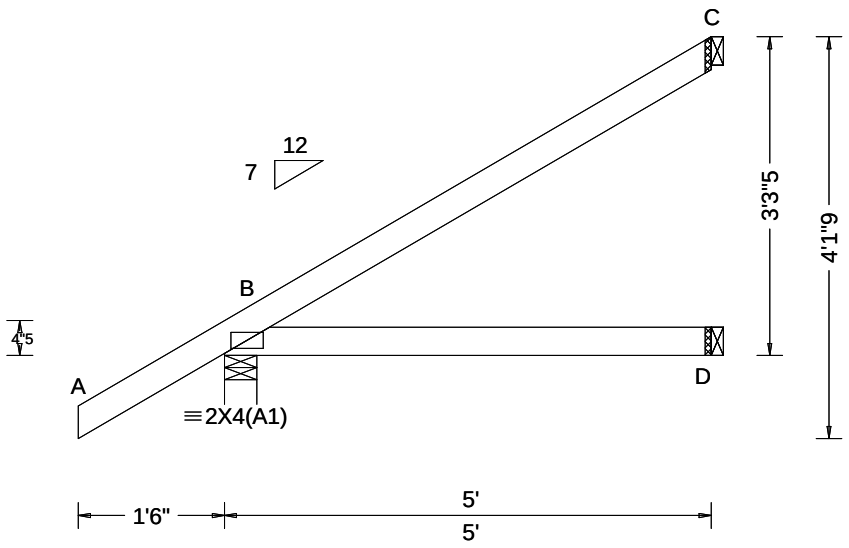
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4066 JACK FROM: SDY	Ply: 1 Qty: 8	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ5	Cust: R 215 JRef:1X2L2150004 T22 DrwNo: 034.21.0817.25223 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D - -
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.007 D - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.334
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.245
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.12
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	304	/-	/-	/202	/42	/127
D	89	/-	/-	/51	/-	/-
C	116	/-	/-	/70	/75	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

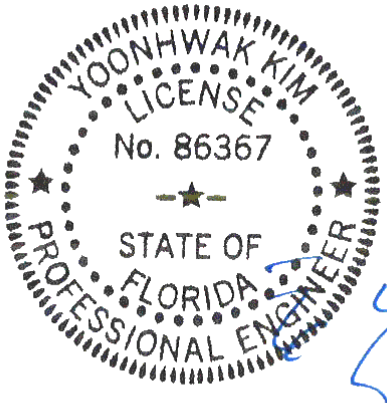
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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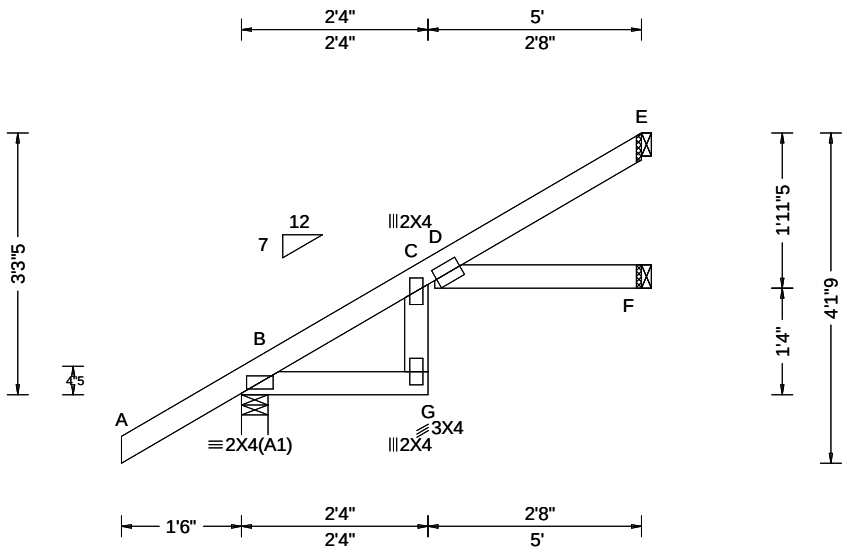
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4260 JACK FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ5A		Cust: R 215 JRef:1X2L2150004 T60 DrwNo: 034.21.0817.26360 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.060 G 970 240 VERT(CL): 0.109 G 536 180 HORZ(LL): 0.038 F - - HORZ(TL): 0.069 F - - Creep Factor: 2.0 Max TC CSI: 0.403 Max BC CSI: 0.086 Max Web CSI: 0.070 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	303	/-	/-	/201	/42	/127
E	133	/-	/-	/85	/72	/-
F	57	/-	/-	/31	/-	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
F Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

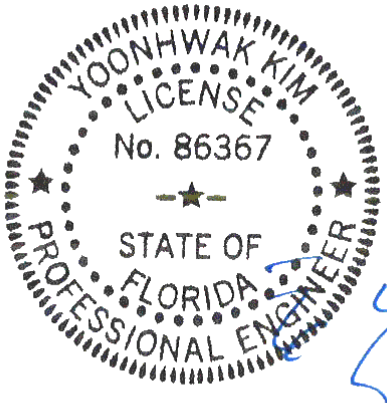
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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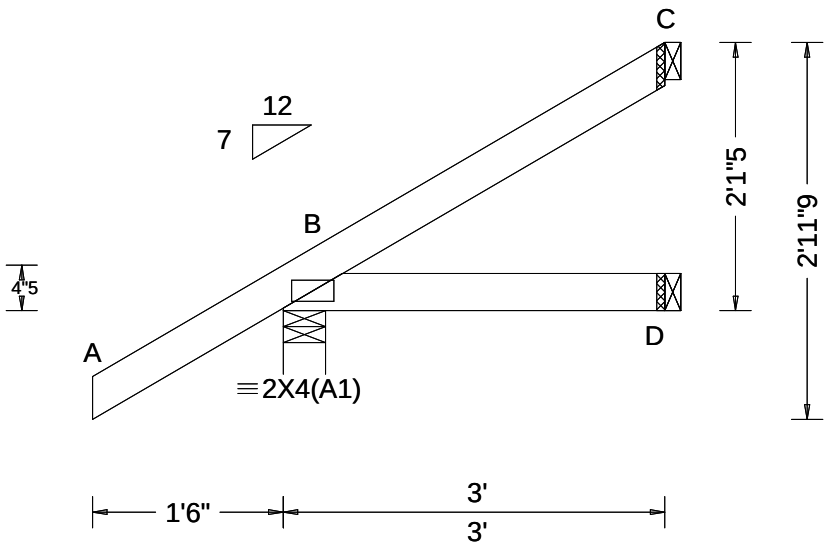
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4063 JACK FROM: SDY	Ply: 1 Qty: 13	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ3		Cust: R 215 JRef:1X2L2150004 T9 DrwNo: 034.21.0817.27477 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.236 Max BC CSI: 0.074 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	240	/-	/-	/167	/43	/86
D	50	/-	/-	/32	/-	/-
C	56	/-	/-	/31	/40	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

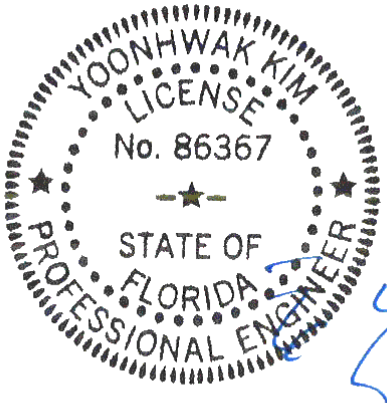
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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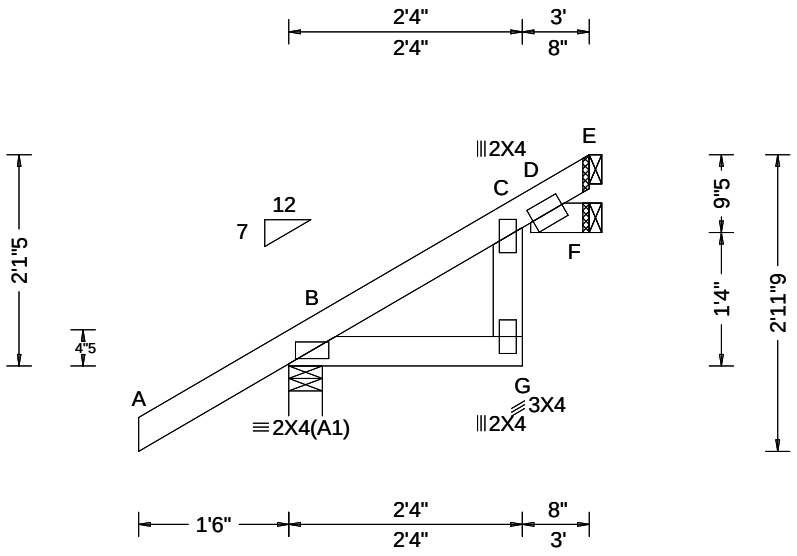
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4257 JACK FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ3A	Cust: R 215 JRef:1X2L2150004 T58 DrwNo: 034.21.0817.28780 / YK 02/03/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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 7th Ed. 2020 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): 0.005	G	999	240
VERT(CL): 0.008	G	999	180
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.005	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.214
Max BC CSI: 0.037
Max Web CSI: 0.027

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	240	/-	/-	/167	/43	/86
F	14	/-	/-	/8	/-	/-
E	70	/-	/-	/52	/33	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

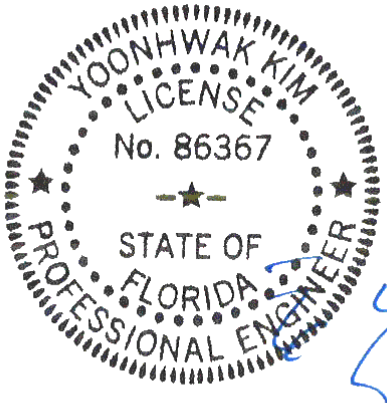
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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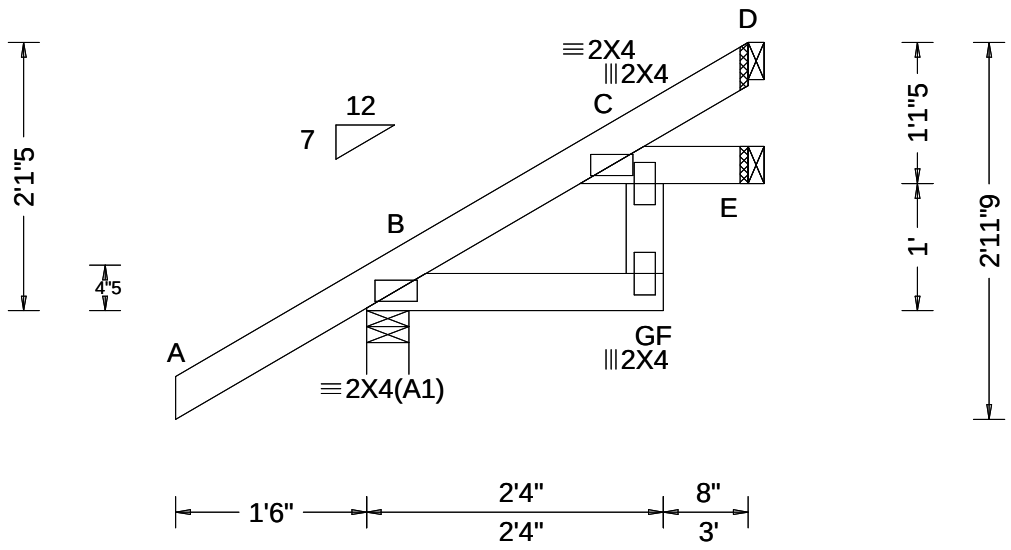
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4081 JACK FROM: SDY	Ply: 1 Qty: 2	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ3B		Cust: R 215 JRef:1X2L2150004 T17 DrwNo: 034.21.0817.29847 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.004 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 G - -
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.004 G - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.276
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.047
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.030
	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: 20.01.01A.0724.12
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	240	/-	/-	/167	/43	/86
E	35	/-	/-	/25	/-	/-
D	60	/-	/-	/37	/34	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

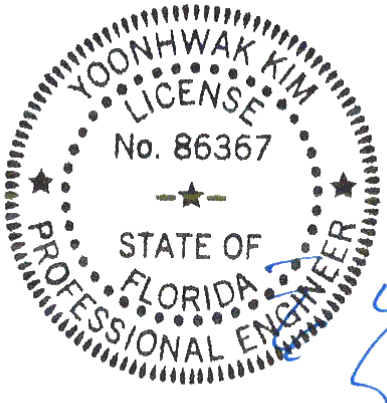
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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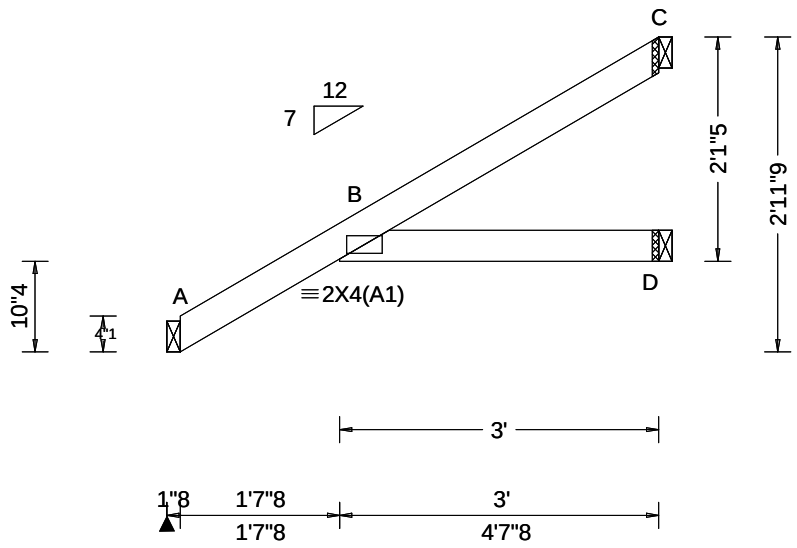
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4087 JACK FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ3C	Cust: R 215 JRef:1X2L2150004 T11 DrwNo: 034.21.0817.31030 / YK 02/03/2021



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 4.2 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 7th Ed. 2020 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	D	999	240
VERT(CL): 0.091	D	608	180
HORZ(LL): 0.033	D	-	-
HORZ(TL): 0.057	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.482
Max BC CSI: 0.089
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

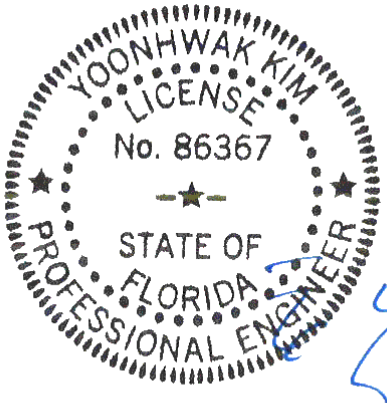
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	146	/-	/-	/75	/18	/91
D	57	/-	/-	/29	/-	/-
C	138	/-	/-	/88	/79	/-

Wind reactions based on MWFRS
A Brg Width = 1.5
D Brg Width = 1.5
C Brg Width = 1.5
Members not listed have forces less than 375#

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

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

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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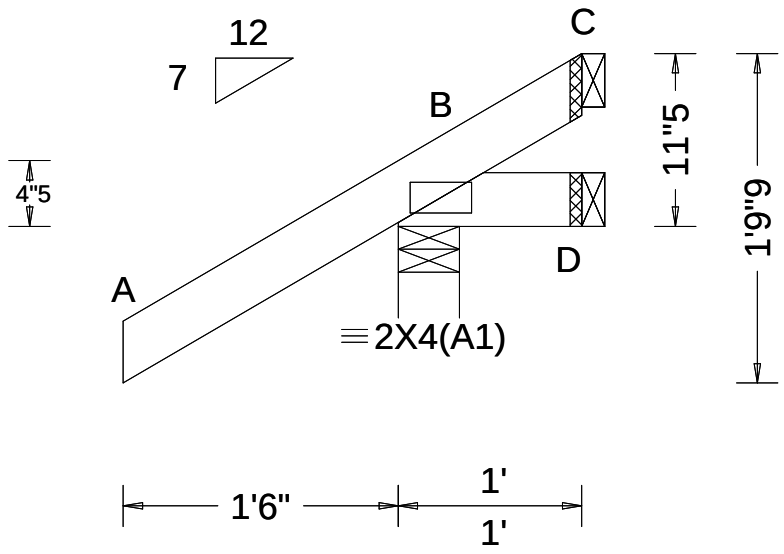
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4060 JACK FROM: SDY	Ply: 1 Qty: 19	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ1		Cust: R 215 JRef:1X2L2150004 T10 DrwNo: 034.21.0817.32353 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.276 Max BC CSI: 0.039 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	232	/-	/-	/182	/69	/44
D	7	/-14	/-	/17	/15	/-
C	-	/-50	/-	/36	/51	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

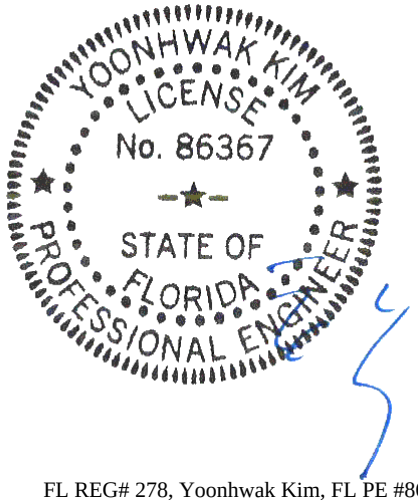
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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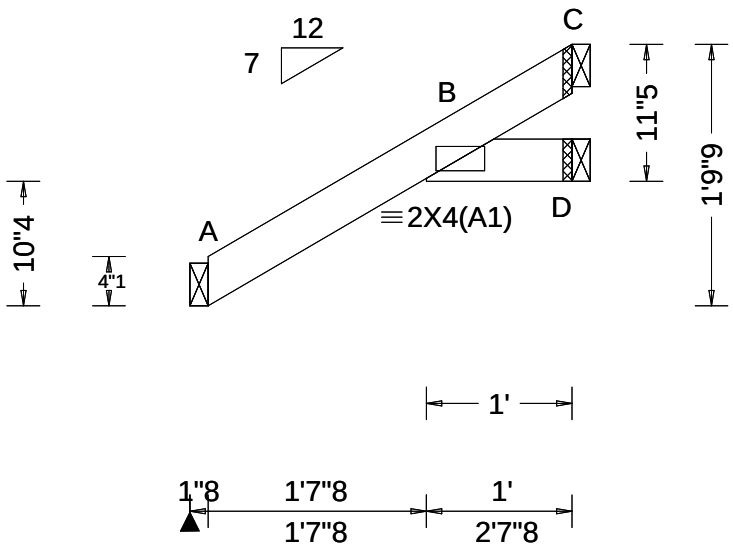
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 4084 JACK FROM: SDY	Ply: 1 Qty: 1	**Job Number:** 20-4975 Jimenez **Truss Label:** CJ1A		Cust: R 215 JRef:1X2L2150004 T12 DrwNo: 034.21.0817.36990 / YK 02/03/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 D 999 240 VERT(CL): 0.009 D 999 180 HORZ(LL): 0.004 D - - HORZ(TL): 0.006 D - - Creep Factor: 2.0 Max TC CSI: 0.173 Max BC CSI: 0.007 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.12

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	74	/-	/-	/34	/12	/50
D	17	/-	/-	/9	/-	/-
C	78	/-	/-	/50	/43	/-

Wind reactions based on MWFRS
A Brg Width = 1.5
D Brg Width = 1.5
C Brg Width = 1.5
Members not listed have forces less than 375#

Lumber

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

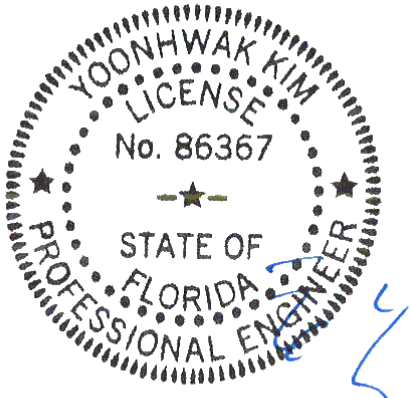
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (2) 16d common(0.162"x3.5") toe-nails at bottom chord.



FL REG# 278, Yoonhwak Kim, FL PE #86367
02/03/2021

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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

CLR Reinforcing Member Substitution

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

Notes:

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

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

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

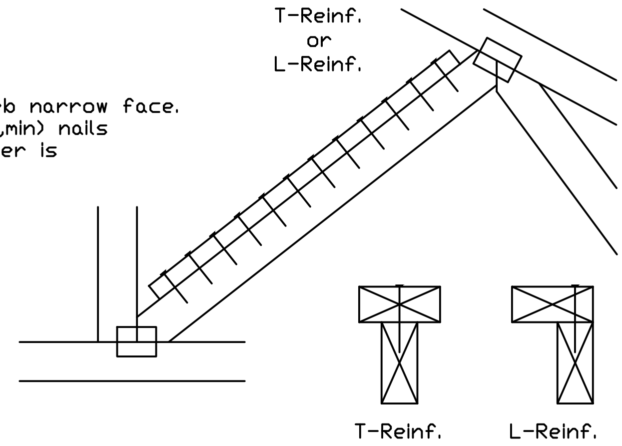
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Alternative Reinforcement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

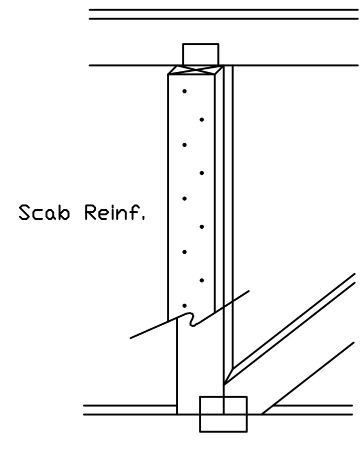
T-Reinforcement or L-Reinforcement:

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.



YOONHWAK KIM
LICENSE
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

03/03/2021
FL REG# 278, Yoonhwak Kim, FL PE #86367

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