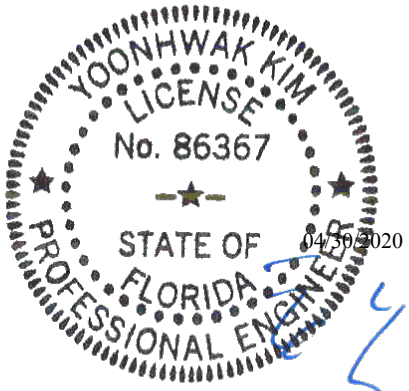


04/30/2020

This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

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:* 20-4183
Job Description: Woods In-Law Suite	
Address:	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	*IntelliVIEW Version:* 19.02.02B *JRef #:* 1WUV2150002
Wind Standard: ASCE 7-10 *Wind Speed (mph):* 130 *Building Type:* Closed	*Roof Load (psf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 16 truss drawing(s) and 0 detail(s).

Item	Drawing Number	Truss
1	121.20.0802.27947	A01
3	121.20.0802.31773	A03
5	121.20.0802.35203	A05
7	121.20.0802.41323	J01
9	121.20.0802.43923	J02
11	121.20.0802.46733	J03
13	121.20.0802.49853	J04
15	121.20.0802.54777	J05

Item	Drawing Number	Truss
2	121.20.0802.30110	A02
4	121.20.0802.33597	A04
6	121.20.0802.38600	A06
8	121.20.0802.42683	J1A
10	121.20.0802.45203	J2A
12	121.20.0802.47730	J3A
14	121.20.0802.52327	J4A
16	121.20.0802.57413	J5A

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.

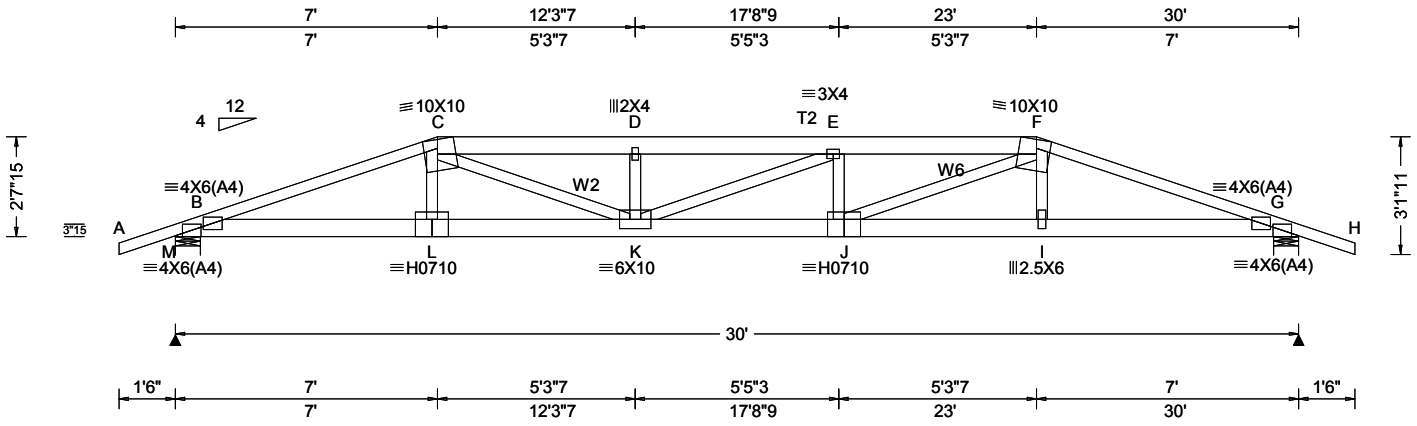
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; 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: 590354 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A01		Cust: R 215 JRef: 1WUV2150002 T6 DrwNo: 121.20.0802.27947 / YK 04/30/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.475	E	750	240
VERT(CL): 0.946	E	376	180
HORZ(LL): 0.090	I	-	-
HORZ(TL): 0.180	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.725
Max BC CSI: 0.691
Max Web CSI: 0.665

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
M	2853 /-	/-	/-	/562	/-
G	2853 /-	/-	/-	/562	/-

Wind reactions based on MWFRS
M Brg Width = 8.0 Min Req = 2.4
G Brg Width = 8.0 Min Req = 2.4
Bearings M & 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	1525	- 7992	E - F	1935	- 10144
C - D	1951	- 10214	F - G	1524	- 7985
D - E	1951	- 10212			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	7549	- 1430	J - I	7493	- 1426
L - K	7499	- 1427	I - G	7542	- 1428
K - J	10238	- 1966			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - C	763	- 40	E - J	243	- 733
C - K	2947	- 569	J - F	2889	- 554
D - K	239	- 711	F - I	752	- 38

Lumber
Top chord: 2x4 SP M-31; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W6 2x4 SP #2;

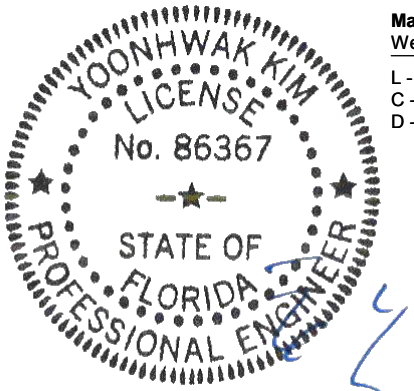
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	61 plf at	-1.50 to	61 plf at	7.00
TC: From	31 plf at	7.00 to	31 plf at	23.00
TC: From	61 plf at	23.00 to	61 plf at	31.50
BC: From	4 plf at	-1.50 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.03
BC: From	10 plf at	7.03 to	10 plf at	22.97
BC: From	20 plf at	22.97 to	20 plf at	30.00
BC: From	4 plf at	30.00 to	4 plf at	31.50

TC: 189 lb Conc. Load at 7.06, 9.06,11.06,13.06 15.00,16.94,18.94,20.94,22.94
BC: 563 lb Conc. Load at 7.03,22.97
BC: 129 lb Conc. Load at 9.06,11.06,13.06,15.00 16.94,18.94,20.94

Wind
Wind loads and reactions based on MWFRS.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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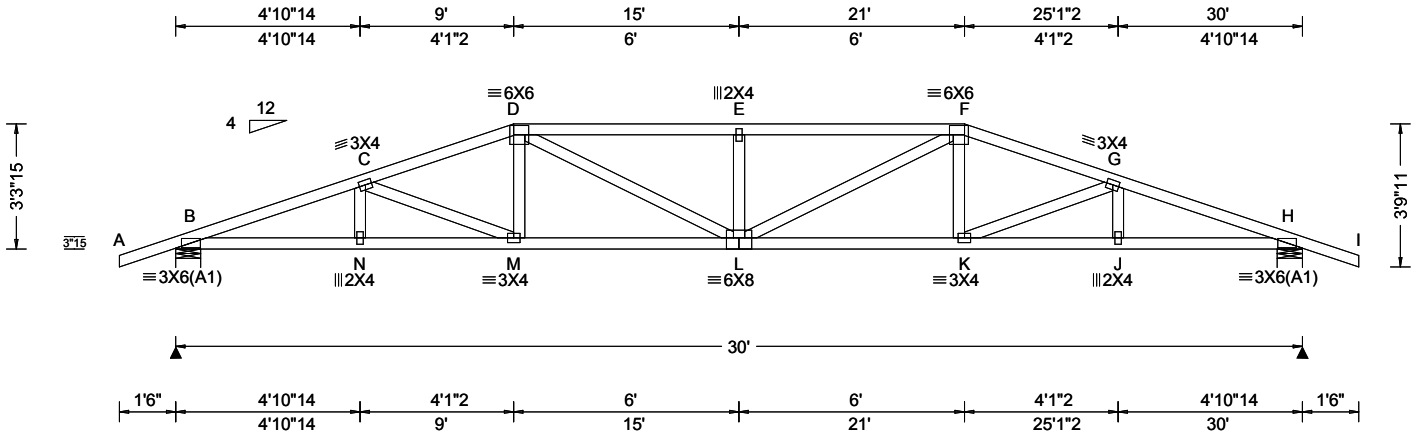
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing,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

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590360 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A02		Cust: R 215 JRef: 1WUV2150002 T2 DrwNo: 121.20.0802.30110 / YK 04/30/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.242	E	999	240
VERT(CL): 0.482	E	739	180
HORZ(LL): 0.064	J	-	-
HORZ(TL): 0.128	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.441
Max BC CSI: 0.758
Max Web CSI: 0.211

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1314	/-	/-	/756	/251	/90
H	1314	/-	/-	/756	/251	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.6
H Brg Width = 8.0 Min Req = 1.6
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	793	- 3013	E - F	834	- 2991
C - D	734	- 2662	F - G	734	- 2662
D - E	834	- 2991	G - H	792	- 3013

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2814	- 682	L - K	2495	- 602
N - M	2812	- 684	K - J	2812	- 702
M - L	2495	- 583	J - H	2814	- 701

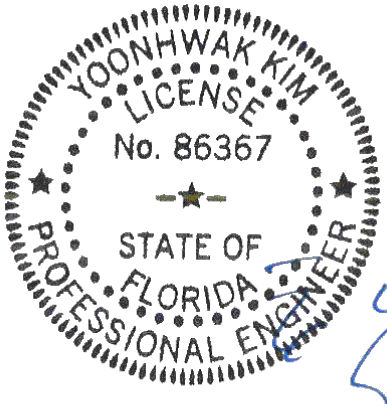
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	555	- 165	L - F	555	- 165
E - L	158	- 386			

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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 3-3-15.



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

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
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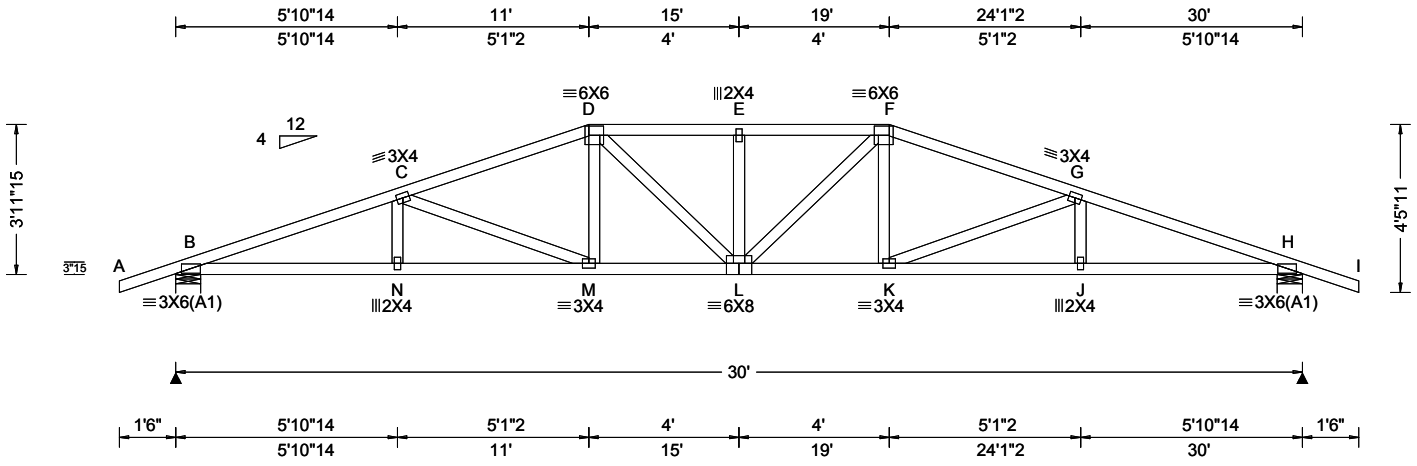
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590363 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A03	Cust: R 215 JRef: 1WUV2150002 T3 DrwNo: 121.20.0802.31773 / YK 04/30/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.205	E	999	240
VERT(CL): 0.408	E	873	180
HORZ(LL): 0.063	J	-	-
HORZ(TL): 0.126	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.752
Max Web CSI: 0.348

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	1314	/-	/-	/761	/250	/104
H	1314	/-	/-	/761	/250	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.6
H Brg Width = 8.0 Min Req = 1.6
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	763	-2996	E - F	687	-2409
C - D	666	-2426	F - G	666	-2426
D - E	687	-2409	G - H	763	-2996

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2794	-649	L - K	2255	-520
N - M	2790	-650	K - J	2790	-669
M - L	2255	-501	J - H	2794	-668

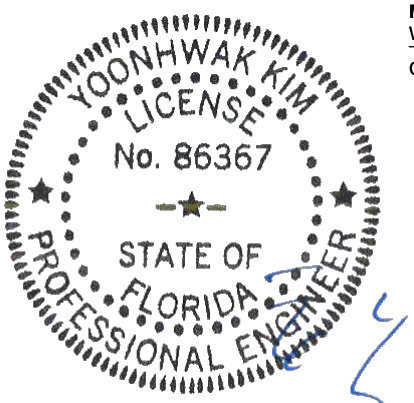
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	161	-577	K - G	161	-577

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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 3-11-15.



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04/30/2020

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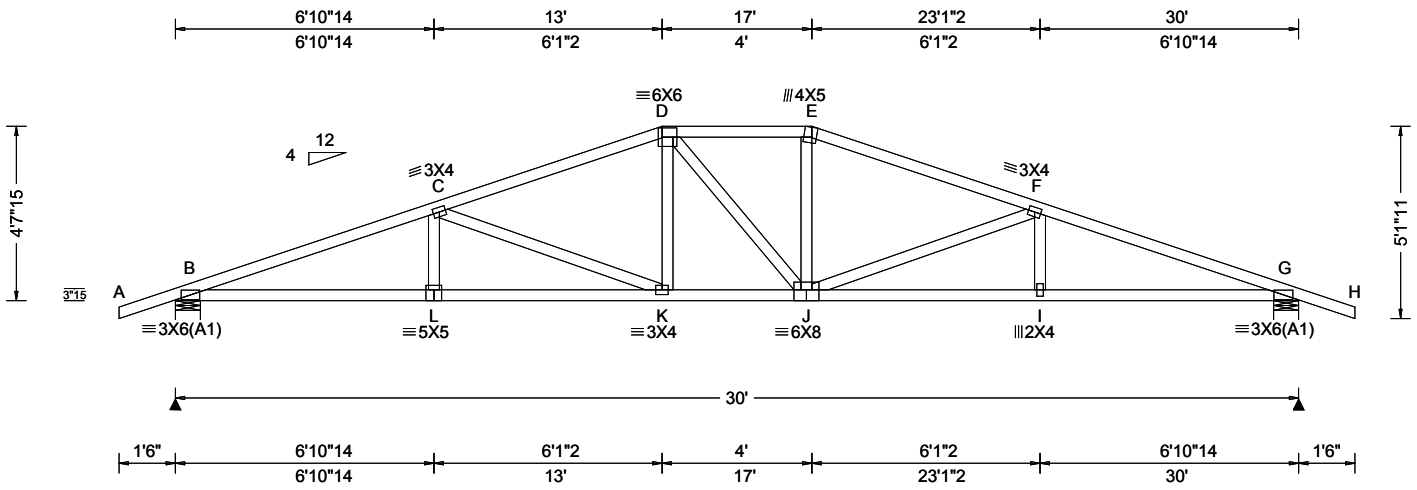
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590366 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A04		Cust: R 215 JRef: 1WUV2150002 T4 DrwNo: 121.20.0802.33597 / YK 04/30/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.191	K	999	240
VERT(CL): 0.381	K	936	180
HORZ(LL): 0.063	I	-	-
HORZ(TL): 0.126	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.531
Max BC CSI: 0.745
Max Web CSI: 0.658

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1314	/-	/-	/763	/249	/119
G	1314	/-	/-	/763	/249	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.6
G Brg Width = 8.0 Min Req = 1.6
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	726	-2953	E - F	596	-2187
C - D	598	-2198	F - G	725	-2954
D - E	597	-2028			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	2747	-608	J - I	2742	-627
L - K	2742	-609	I - G	2748	-626
K - J	2026	-420			

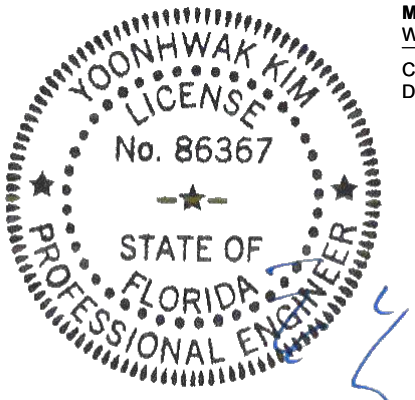
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	204	-769	J - E	406	-71
D - K	407	-60	J - F	205	-779

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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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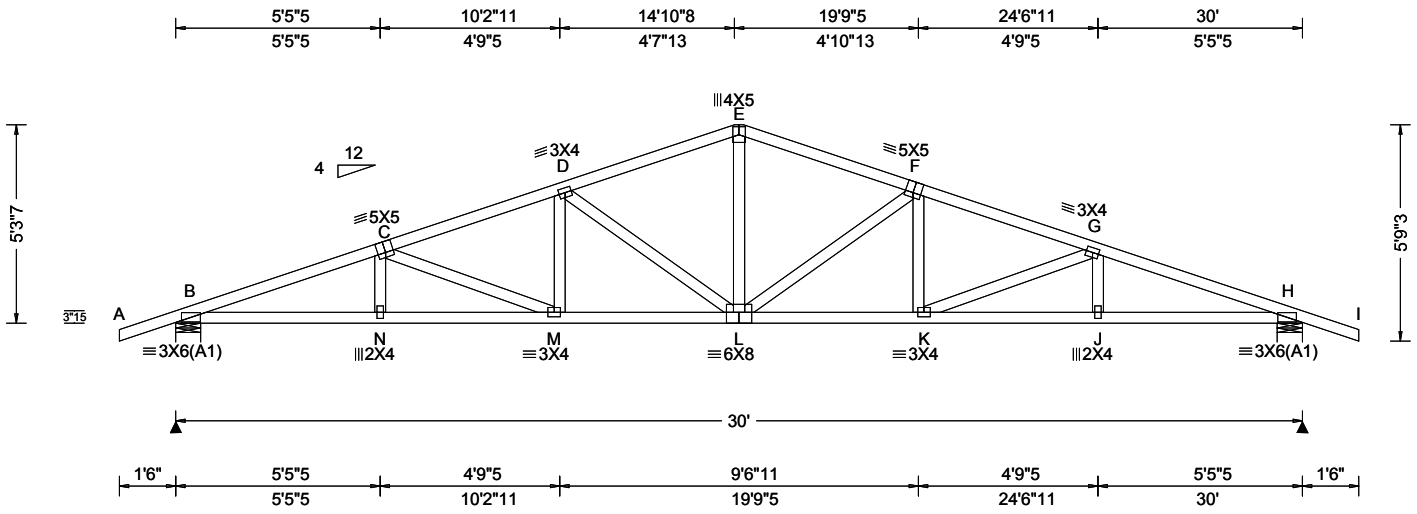
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590369 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A05		Cust: R 215 JRef: 1WUV2150002 T1 DrwNo: 121.20.0802.35203 / YK 04/30/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.196	L	999	240
VERT(CL): 0.390	L	913	180
HORZ(LL): 0.064	J	-	-
HORZ(TL): 0.127	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.349
Max BC CSI: 0.757
Max Web CSI: 0.449

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1314	/-	/-	/763	/83	/133
H	1314	/-	/-	/763	/83	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.6
H Brg Width = 8.0 Min Req = 1.6
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	655	-3011	E - F	495	-1930
C - D	591	-2528	F - G	590	-2527
D - E	495	-1930	G - H	656	-3012

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2810	-549	L - K	2335	-458
N - M	2806	-550	K - J	2808	-569
M - L	2336	-440	J - H	2812	-568

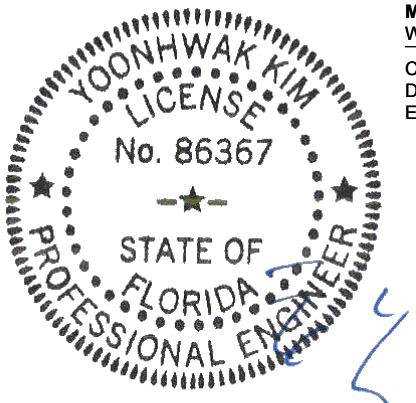
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	117	-486	L - F	188	-682
D - L	189	-684	K - G	118	-490
E - L	912	-189			

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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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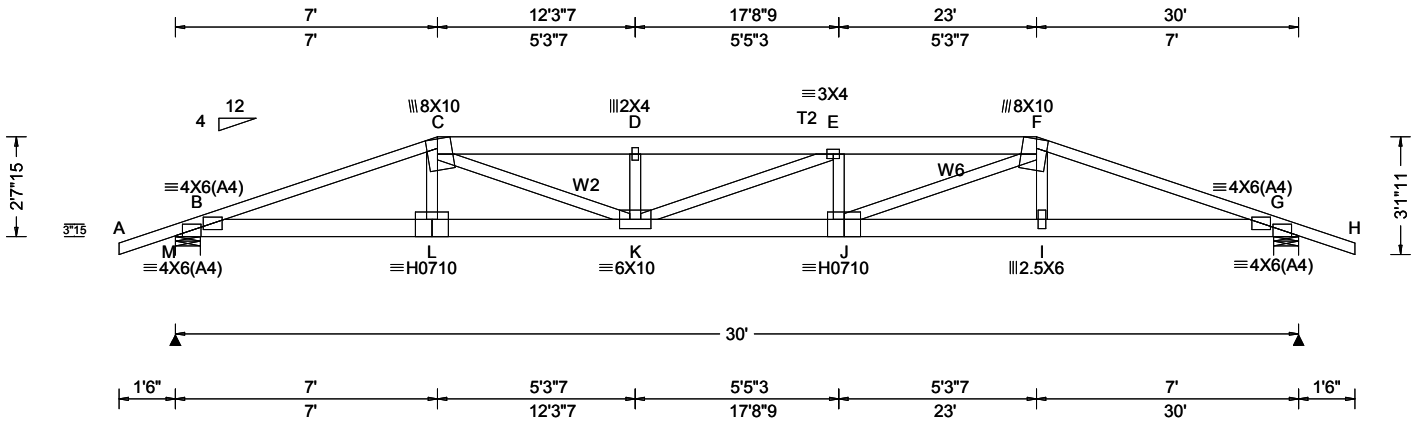
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590357 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** A06		Cust: R 215 JRef: 1WUV2150002 T14 DrwNo: 121.20.0802.38600 / YK 04/30/2020	



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.462	E	772	240
VERT(CL): 0.920	E	387	180
HORZ(LL): 0.088	I	-	-
HORZ(TL): 0.175	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.673
Max Web CSI: 0.649

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
M	2782 /-	/-	/-	/544	/-
G	2782 /-	/-	/-	/544	/-

Wind reactions based on MWFRS
M Brg Width = 8.0 Min Req = 2.3
G Brg Width = 8.0 Min Req = 2.3
Bearings M & 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	1467	- 7765	E - F	1852	- 9866
C - D	1868	- 9935	F - G	1465	- 7759
D - E	1868	- 9932			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	7333	- 1374	J - I	7280	- 1370
L - K	7286	- 1372	I - G	7327	- 1373
K - J	9958	- 1883			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - C	730	- 36	E - J	237	- 713
C - K	2875	- 539	J - F	2819	- 525
D - K	234	- 691	F - I	719	- 34

Lumber
Top chord: 2x4 SP M-31; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W6 2x4 SP #2;

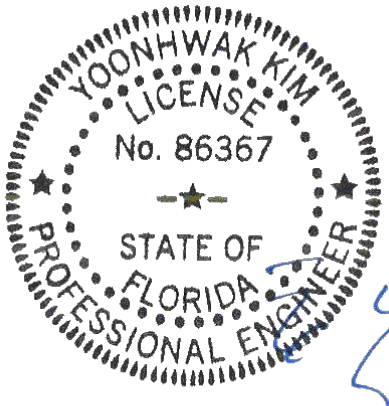
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	61 plf at	-1.50 to	61 plf at	7.00
TC: From	31 plf at	7.00 to	31 plf at	23.00
TC: From	61 plf at	23.00 to	61 plf at	31.50
BC: From	4 plf at	-1.50 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.03
BC: From	10 plf at	7.03 to	10 plf at	22.97
BC: From	20 plf at	22.97 to	20 plf at	30.00
BC: From	4 plf at	30.00 to	4 plf at	31.50

TC: 182 lb Conc. Load at 7.06, 9.06,11.06,13.06 15.00,16.94,18.94,20.94,22.94
BC: 530 lb Conc. Load at 7.03,22.97
BC: 126 lb Conc. Load at 9.06,11.06,13.06,15.00 16.94,18.94,20.94

Wind
Wind loads and reactions based on MWFRS.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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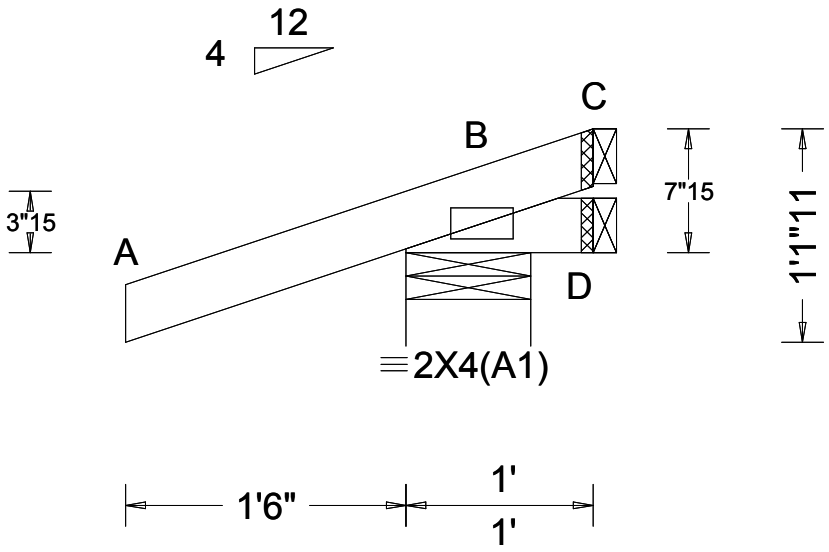
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590336 JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J01	Cust: R 215 JRef: 1WUV2150002 T9 DrwNo: 121.20.0802.41323 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): -0.000 D - -
HORZ(TL): 0.000 D - -
Creep Factor: 2.0
Max TC CSI: 0.260
Max BC CSI: 0.032
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

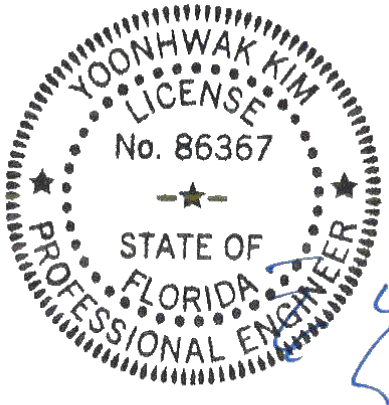
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	248	/-	/-	/185	/94	/26
D	2	/-20	/-	/21	/19	/-
C	-	/-49	/-	/33	/45	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 0-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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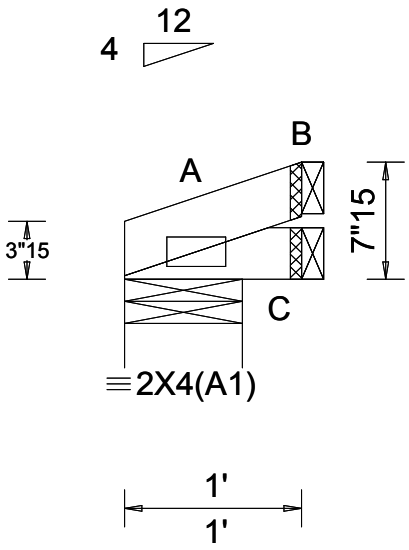
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590339 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J1A	Cust: R 215 JRef: 1WUV2150002 T12 DrwNo: 121.20.0802.42683 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.000	C	-	-
HORZ(TL): 0.000	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.010
Max BC CSI: 0.006
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

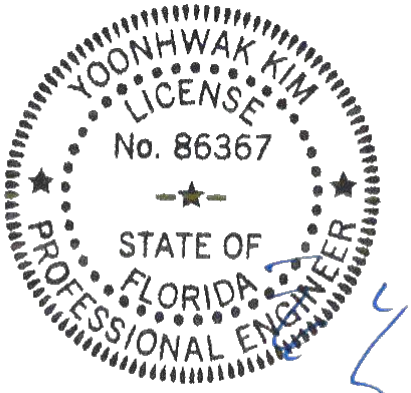
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	47	/-	/-	/29	/4	/9
C	15	/-	/-	/12	/3	/-
B	19	/-	/-	/10	/6	/-

Wind reactions based on MWFRS
A Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 0-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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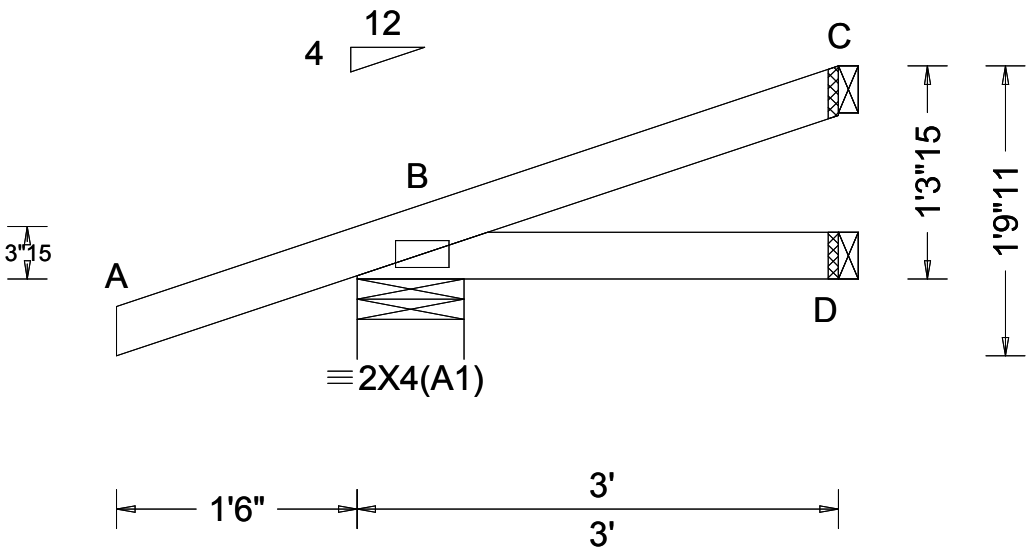
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590337 JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J02	Cust: R 215 JRef: 1WUV2150002 T8 DrwNo: 121.20.0802.43923 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.001 D - -
HORZ(TL): 0.001 D - -
Creep Factor: 2.0
Max TC CSI: 0.292
Max BC CSI: 0.065
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

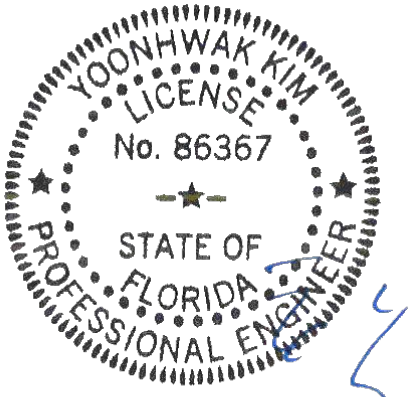
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	257	/-	/-	/180	/59	/43
D	47	/-	/-	/37	/1	/-
C	60	/-	/-	/23	/20	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-3-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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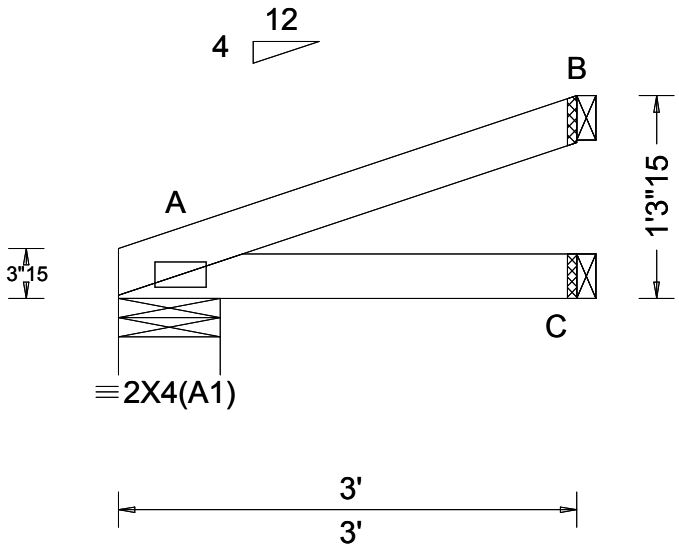
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590340 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J2A	Cust: R 215 JRef: 1WUV2150002 T11 DrwNo: 121.20.0802.45203 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.001 C - -
HORZ(TL): 0.003 C - -
Creep Factor: 2.0
Max TC CSI: 0.104
Max BC CSI: 0.094
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

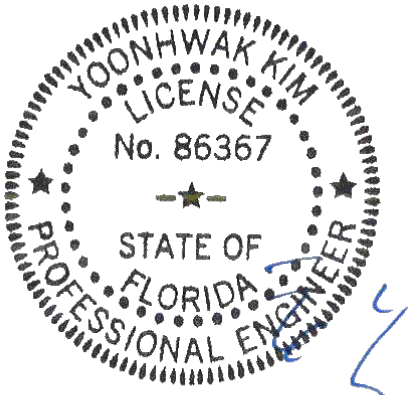
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	128	/-	/-	/80	/16	/28
C	53	/-	/-	/38	/2	/-
B	77	/-	/-	/36	/25	/-

Wind reactions based on MWFRS
A Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-3-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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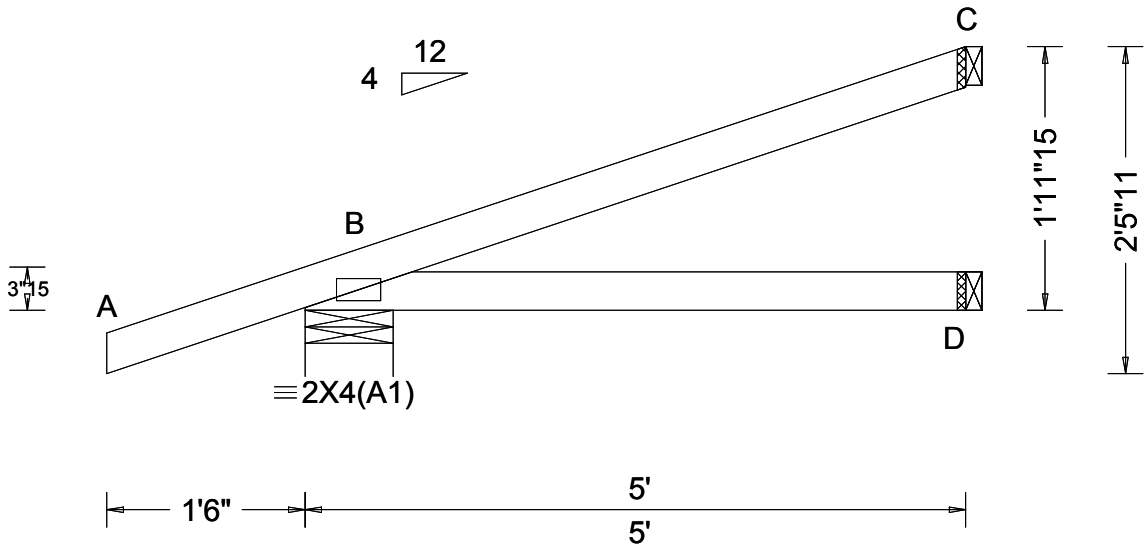
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590338 JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J03	Cust: R 215 JRef: 1WUV2150002 T7 DrwNo: 121.20.0802.46733 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.004 D - -
HORZ(TL): 0.009 D - -
Creep Factor: 2.0
Max TC CSI: 0.291
Max BC CSI: 0.237
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	325	/-	/-	/221	/60	/62
D	87	/-	/-	/60	/-	/-
C	124	/-	/-	/54	/40	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-11-15.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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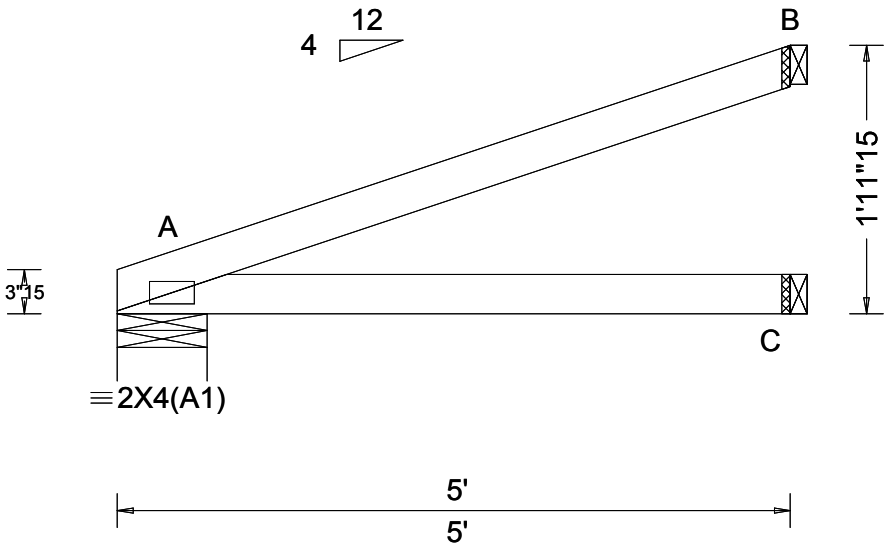
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590341 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J3A	Cust: R 215 JRef: 1WUV2150002 T10 DrwNo: 121.20.0802.47730 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.006 C - -
HORZ(TL): 0.012 C - -
Creep Factor: 2.0
Max TC CSI: 0.337
Max BC CSI: 0.256
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

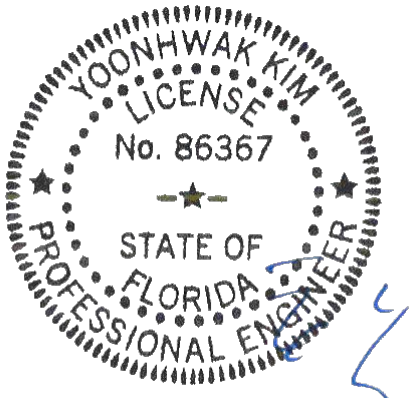
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	209	/-	/-	/131	/28	/47
C	91	/-	/-	/65	/1	/-
B	133	/-	/-	/62	/43	/-

Wind reactions based on MWFRS
A Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-11-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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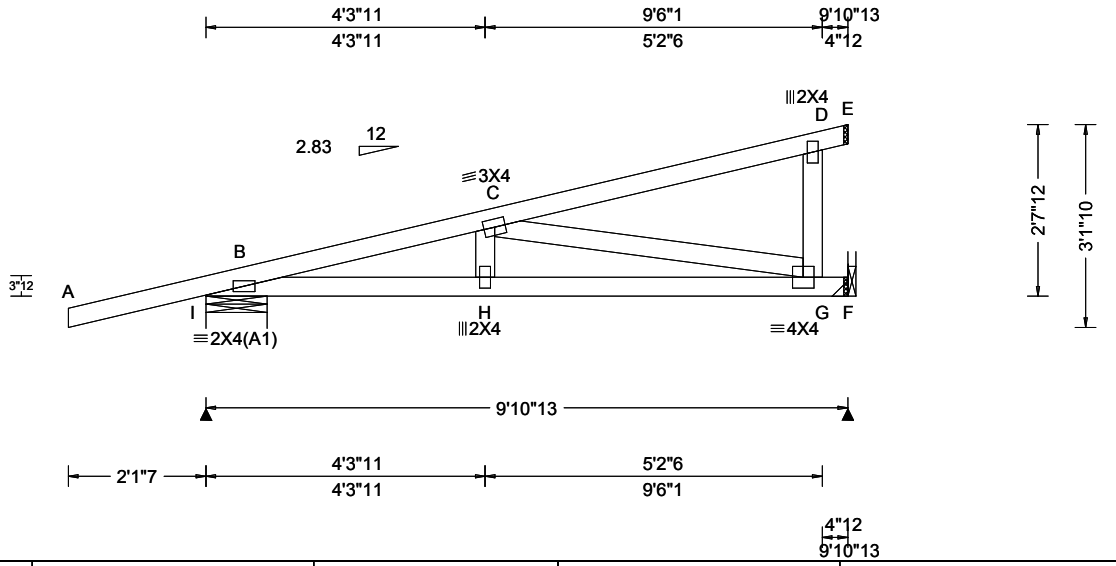
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590351 HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J04	Cust: R 215 JRef: 1WUV2150002 T17 DrwNo: 121.20.0802.49853 / YK 04/30/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.052	C	999	240
VERT(CL): 0.102	C	999	180
HORZ(LL): 0.008	G	-	-
HORZ(TL): 0.016	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.750
Max BC CSI: 0.991
Max Web CSI: 0.537

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	363	/-	/-	/-	/177	/-
F	404	/-	/-	/-	/80	/-

Wind reactions based on MWFRS
I Brg Width = 11.3 Min Req = 1.5
F Brg Width = - Min Req = -
Bearing I is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	306	-1104

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1079	-284	H - G	1057	-283

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - G	283	-1041

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

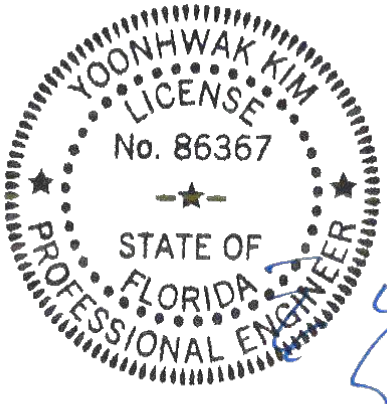
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	0 plf at	-2.12 to	61 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.90
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.90

TC: -33 lb Conc. Load at 1.48
TC: 120 lb Conc. Load at 4.31
TC: 247 lb Conc. Load at 7.13
BC: 4 lb Conc. Load at 1.48
BC: 95 lb Conc. Load at 4.31
BC: 175 lb Conc. Load at 7.13

Wind
Wind loads and reactions based on MWFRS.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-12.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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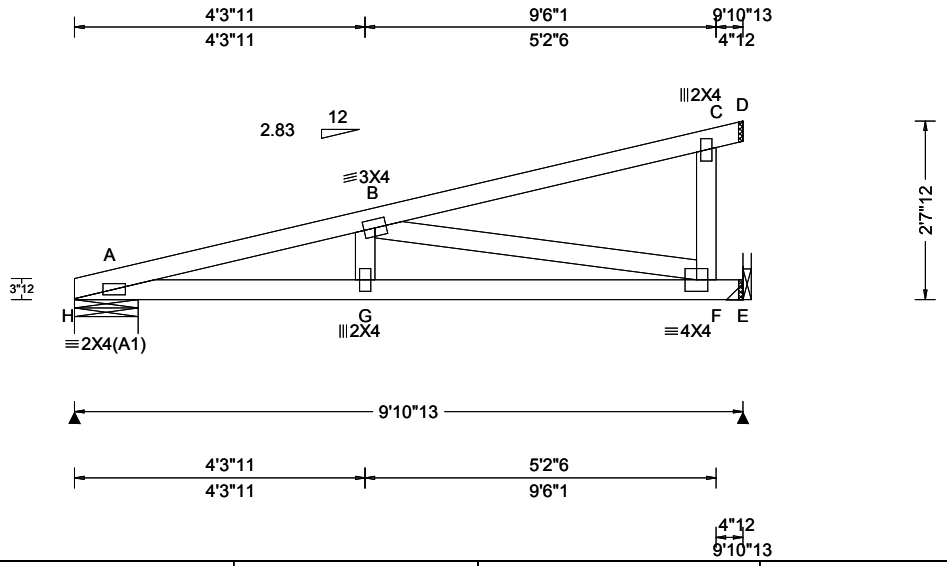
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590349 HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J4A	Cust: R 215 JRef: 1WUV2150002 T16 DrwNo: 121.20.0802.52327 / YK 04/30/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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):	0.047 B	999	240
VERT(CL):	0.096 B	999	180
HORZ(LL):	0.007 B	-	-
HORZ(TL):	0.014 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.755
Max BC CSI: 0.422
Max Web CSI: 0.617

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	304	/-	/-	/-	/104	/-
E	435	/-	/-	/-	/80	/-

Wind reactions based on MWFRS
H Brg Width = 11.3 Min Req = 1.5
E Brg Width = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	281	-1261

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	1230	-267	G - F	1205	-266

Maximum Web Forces Per Ply (lbs)

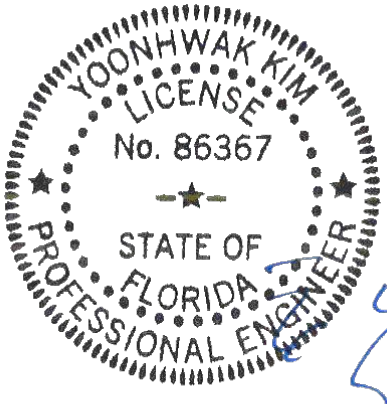
Webs	Tens.	Comp.
B - F	265	-1197

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

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 2 plf at 0.00 to 2 plf at 9.90
BC: From 2 plf at 0.00 to 2 plf at 9.90
TC: 2 lb Conc. Load at 1.48
TC: 137 lb Conc. Load at 4.31
TC: 256 lb Conc. Load at 7.13
BC: 17 lb Conc. Load at 1.48
BC: 100 lb Conc. Load at 4.31
BC: 178 lb Conc. Load at 7.13

Wind
Wind loads and reactions based on MWFRS.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-12.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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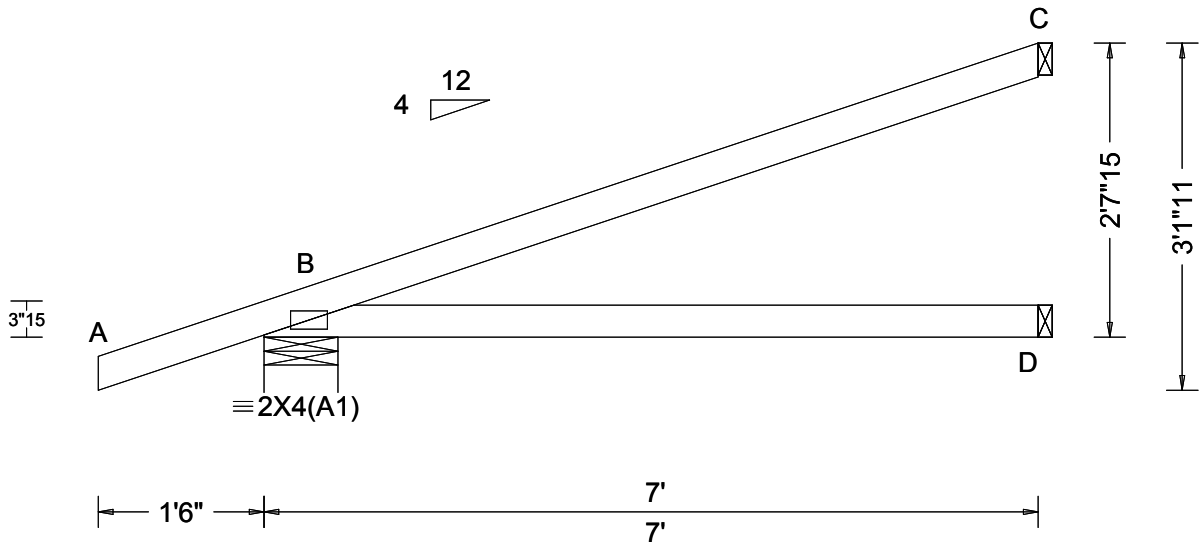
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590343 EJAC FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J05	Cust: R 215 JRef: 1WUV2150002 T15 DrwNo: 121.20.0802.54777 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.015 D - -
HORZ(TL): 0.029 D - -
Creep Factor: 2.0
Max TC CSI: 0.678
Max BC CSI: 0.494
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

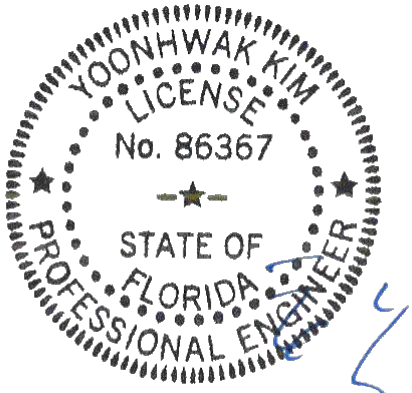
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	401	/-	/-	/268	/70	/81
D	126	/-	/-	/87	/-	/-
C	182	/-	/-	/82	/59	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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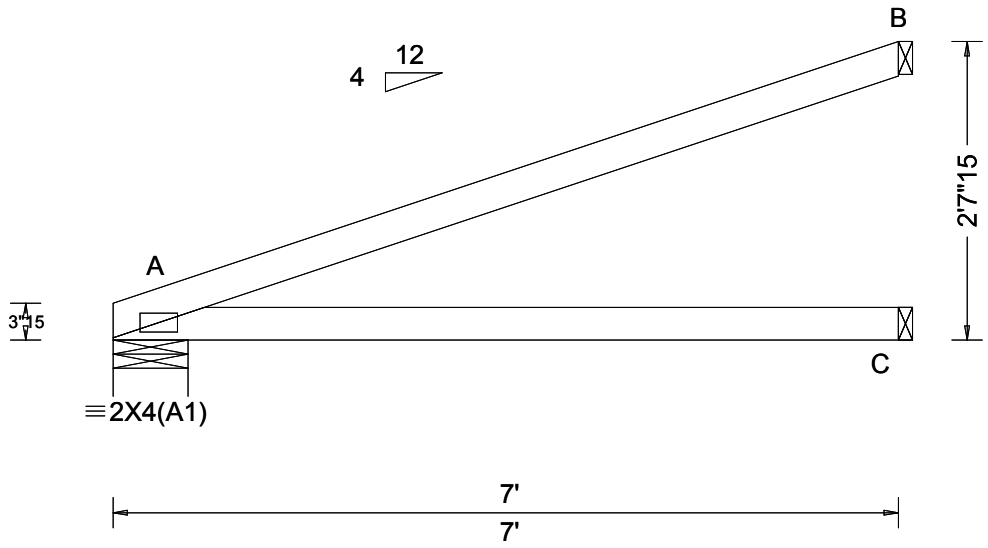
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 590342 EJAC FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 20-4183 Woods In-Law Suite **Truss Label:** J5A	Cust: R 215 JRef: 1WUV2150002 T13 DrwNo: 121.20.0802.57413 / YK 04/30/2020



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

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.017	C	-	-
HORZ(TL): 0.035	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.726
Max BC CSI: 0.514
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

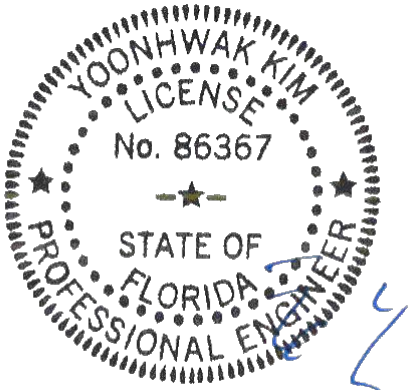
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	290	/-	/-	/182	/39	/66
C	129	/-	/-	/92	/1	/-
B	189	/-	/-	/87	/61	/-

Wind reactions based on MWFRS
A Brg Width = 8.0 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.
Uplifts based on an elevation at or above 1000 ft.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-7-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
04/30/2020

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