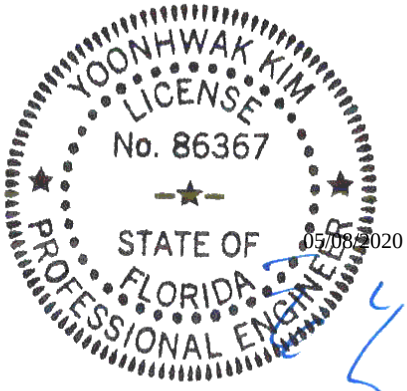

05/08/2020

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

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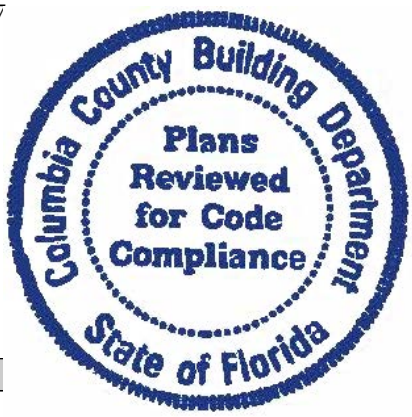


Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4228
Job Description: Roling PLan	
Address:	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	*IntelliVIEW Version:* 19.02.02B *JRef #:* 1WV32150001
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, 37 truss drawing(s) and 1 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	129.20.0935.01100	A01	2	129.20.0935.03650	A02
3	129.20.0935.05887	A03	4	129.20.0935.08660	A04
5	129.20.0935.10407	A05	6	129.20.0935.12003	A06
7	129.20.0935.13317	A07	8	129.20.0935.14897	A08
9	129.20.0935.17647	A09	10	129.20.0935.19260	B01
11	129.20.0935.20790	B02	12	129.20.0935.22993	B03
13	129.20.0935.24713	B04	14	129.20.0935.26390	B05
15	129.20.0935.28817	B06	16	129.20.0935.30680	B07
17	129.20.0935.34923	B08	18	129.20.0935.42347	C01
19	129.20.0935.43957	C02	20	129.20.0935.45957	C03
21	129.20.0935.47700	C04	22	129.20.0935.49283	C05
23	129.20.0935.50893	D01	24	129.20.0935.52443	D02
25	129.20.0935.55023	D03	26	129.20.0935.56610	D04
27	129.20.0935.58007	J01	28	129.20.0935.59127	J01A
29	129.20.0936.00183	J02	30	129.20.0936.01263	J02A
31	129.20.0936.02233	J03	32	129.20.0936.03217	J03A
33	129.20.0936.05060	J04	34	129.20.0936.12747	J05HJ
35	129.20.0936.16643	J05AHJ	36	129.20.0936.18490	J06
37	129.20.0936.35167	J07HJ	38	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.

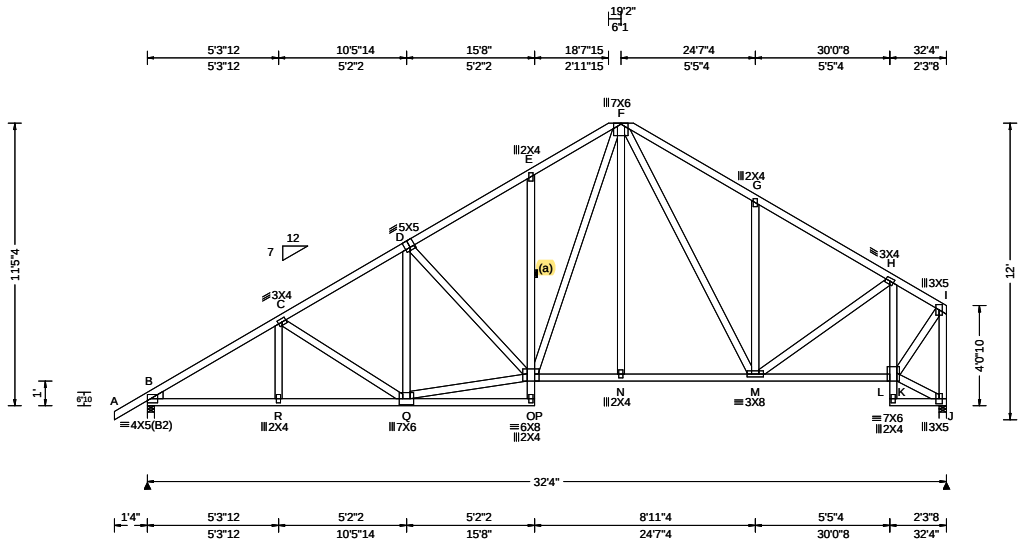
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze 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.: 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: 315730 SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A01	Cust: R 215 JRef:1WV32150001 T19 DrwNo: 129.20.0935.01100 / YK 05/08/2020	



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: 3.23 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): 0.090	D	999	240
VERT(CL): 0.187	D	999	180
HORZ(LL): 0.046	J	-	-
HORZ(TL): 0.094	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.643
Max BC CSI: 0.955
Max Web CSI: 0.629

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	1440	/-	/-	/873	/18	/275
J	1339	/-	/-	/709	/17	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
J Brg Width = 3.5 Min Req = 1.6
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	391	- 2143	F - G	440	- 1370
C - D	390	- 1828	G - H	332	- 1376
D - E	401	- 1626	H - I	193	- 858
E - F	479	- 1571			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	1758	- 381	N - M	1029	- 116
R - Q	1758	- 382	M - K	749	- 153
O - N	1030	- 117			

Maximum Web Forces Per Ply (lbs)

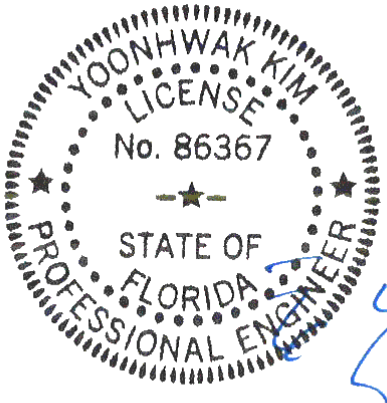
Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - O	1525	- 292	H - K	184	- 775
O - F	892	- 275	K - I	1131	- 231
M - H	461	- 44	I - J	278	- 1312

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 11-5-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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

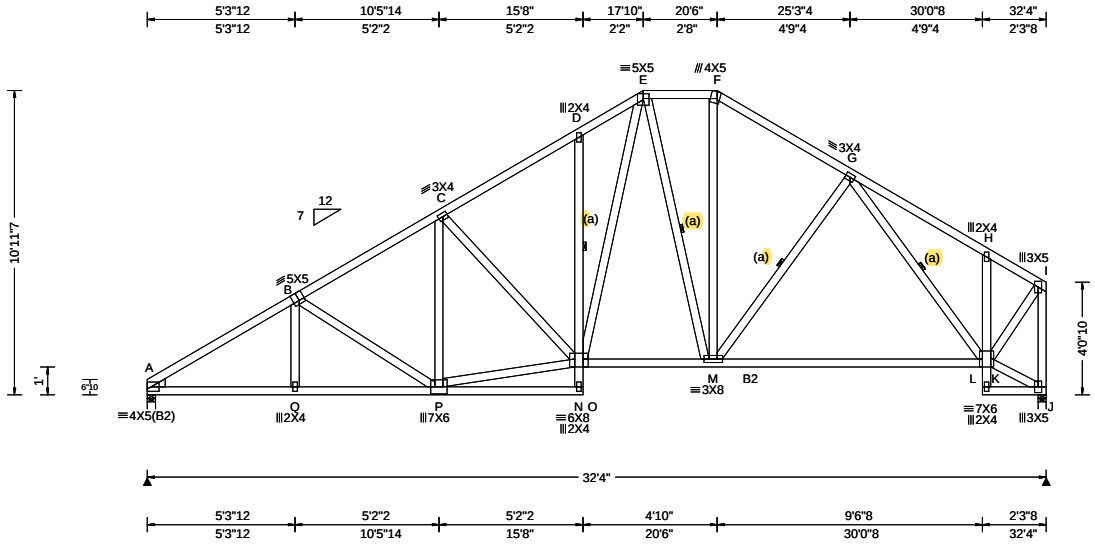
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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: 315731 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A02		Cust: R 215 JRef:1WV32150001 T11 DrwNo: 129.20.0935.03650 / YK 05/08/2020	



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: 3.23 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): 0.087	C	999	240
VERT(CL): 0.182	C	999	180
HORZ(LL): 0.044	K	-	-
HORZ(TL): 0.091	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.565
Max BC CSI: 0.909
Max Web CSI: 0.582

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1347	/-	/-	/805	/28	/246
J	1342	/-	/-	/720	/21	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.6
J Brg Width = 3.5 Min Req = 1.6
Bearings A & 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.
A - B	450	- 2162	E - F	382	- 1071
B - C	439	- 1837	F - G	408	- 1318
C - D	450	- 1630	G - H	302	- 919
D - E	525	- 1594	H - I	206	- 853

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Q	1779	- 423	N - M	1123	- 180
Q - P	1778	- 424	M - K	1093	- 218

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - N	1528	- 329	G - K	115	- 611
N - E	887	- 287	K - I	1139	- 252
M - F	392	- 108	I - J	303	- 1325

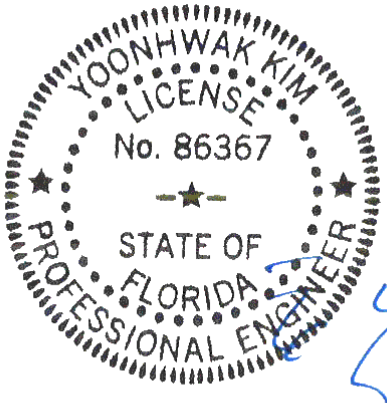
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 10-11-7.



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05/08/2020

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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
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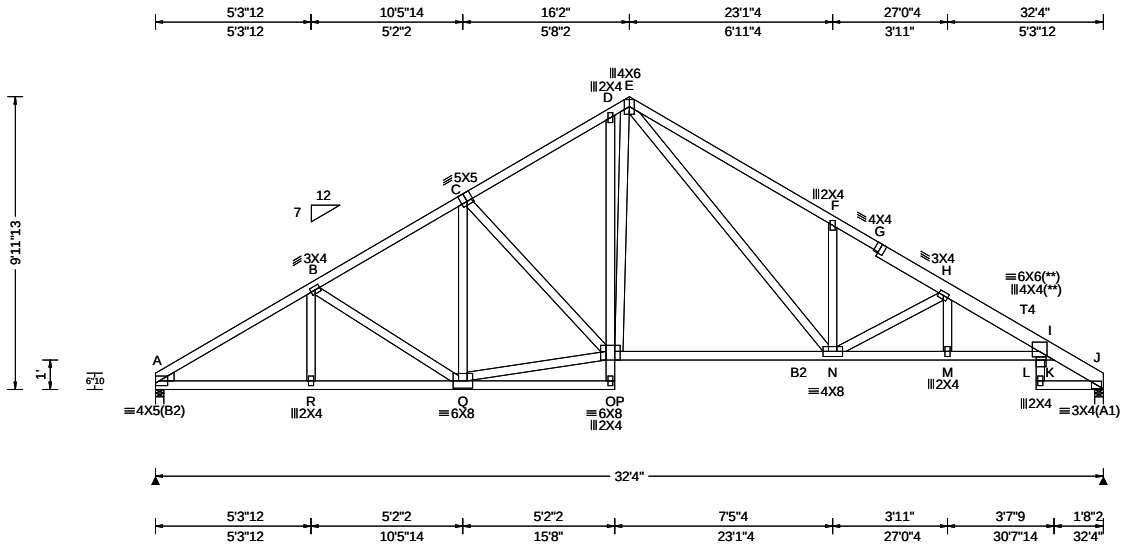
Orlando FL, 32821

SEQN: 315768 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4228 Roling PLan **Truss Label:** A03	Cust: R 215 JRef:1WV32150001 T3 DrwNo: 129.20.0935.05887 / YK 05/08/2020	



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: 3.23 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): 0.250	F	999	240
VERT(CL): 0.491	F	785	180
HORZ(LL): 0.191	K	-	-
HORZ(TL): 0.376	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.747
Max BC CSI: 0.966
Max Web CSI: 0.702

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1410	/-	/-	/775	/15	/245
J	1435	/-	/-	/778	/15	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.7
J Brg Width = 3.5 Min Req = 1.7
Bearings A & 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.
A - B	444	- 2276	F - G	501	- 2493
B - C	429	- 1956	G - H	493	- 2568
C - D	420	- 1775	H - I	558	- 2977
D - E	429	- 1585	I - J	191	- 885
E - F	618	- 2574			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - R	1876	- 315	N - M	2805	- 453
R - Q	1875	- 315	M - K	2803	- 453
O - N	1412	- 102	K - I	2433	- 382

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - O	1676	- 208	E - N	1156	- 296
O - E	704	- 174	N - H	195	- 774

Lumber
Top chord: 2x4 SP #2; T4 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

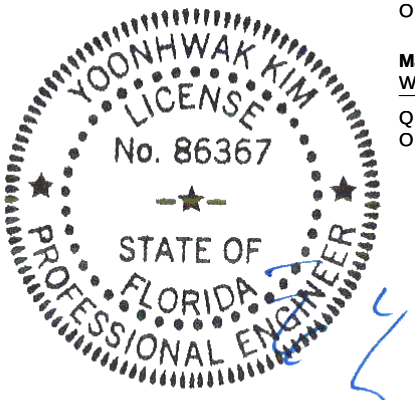
Plating Notes
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-11-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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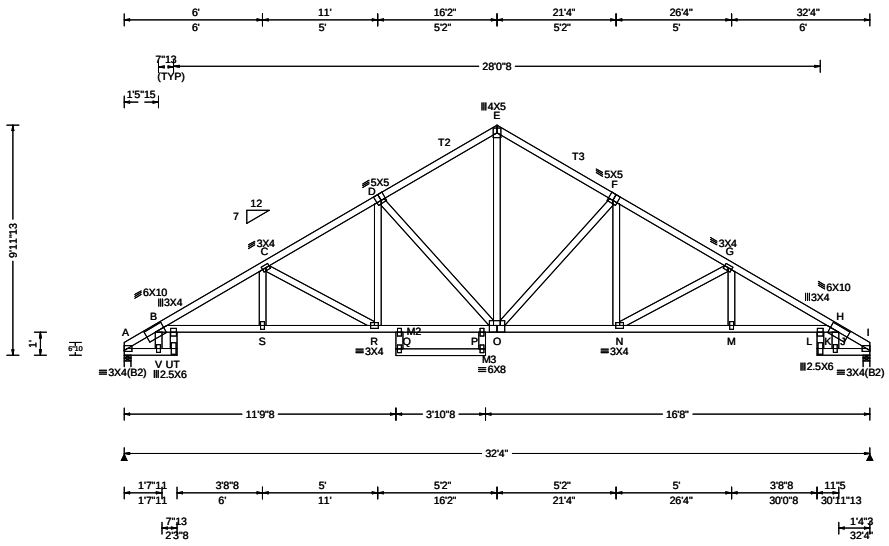
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 315733 COMN FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 20-4228 Roling PLan **Truss Label:** A04	Cust: R 215 JRef:1WV32150001 T1 DrwNo: 129.20.0935.08660 / YK 05/08/2020	



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: 3.23 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): 0.291	L	999	240
VERT(CL): 0.603	L	641	180
HORZ(LL): 0.324	J	-	-
HORZ(TL): 0.674	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.520
Max BC CSI: 0.973
Max Web CSI: 0.748

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1344	/-	/-	/776	/15	/245
I	1344	/-	/-	/776	/15	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	152	- 676	E - F	413	- 1543
B - C	586	- 2929	F - G	470	- 2106
C - D	470	- 2103	G - H	586	- 2928
D - E	413	- 1543	H - I	152	- 676

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	2541	- 436	P - O	1712	- 228
U - S	2549	- 438	O - N	1714	- 229
S - R	2539	- 436	N - M	2538	- 437
R - Q	1712	- 228	M - K	2548	- 438
Q - P	1703	- 228	K - H	2540	- 437

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - V	344	- 1479	O - F	201	- 671
U - T	944	- 210	F - N	509	- 90
S - C	429	- 48	N - G	243	- 931
C - R	243	- 934	G - M	421	- 49
R - D	502	- 90	L - K	944	- 210
D - O	201	- 667	J - H	344	- 1478
E - O	1135	- 282			

Lumber
Top chord: 2x4 SP M-31; T2,T3 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3; M2,M3 2x4 SP #2;
Filler: 2x4 SP #2;

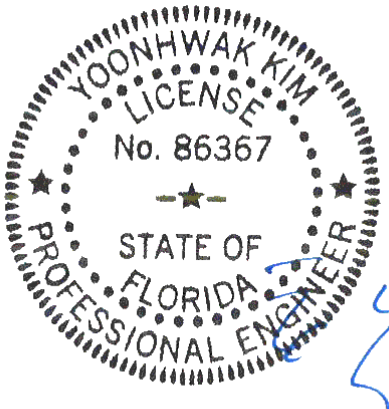
Plating Notes
All plates are 2X4 except as noted.

Purlins
Laterally brace BC at 24" oc in lieu of rigid ceiling.
Laterally brace BC above filler at 24" oc.

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

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9-11-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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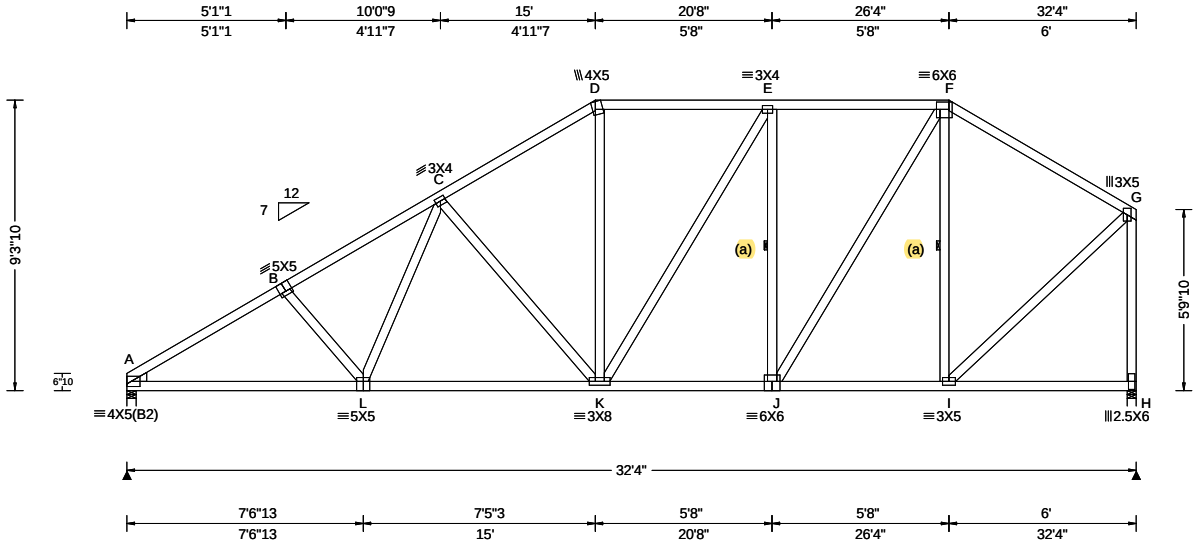
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315734 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A05		Cust: R 215 JRef:1WV32150001 T20 DrwNo: 129.20.0935.10407 / YK 05/08/2020	



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: 3.23 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): 0.086	C	999	240
VERT(CL): 0.178	C	999	180
HORZ(LL): 0.032	I	-	-
HORZ(TL): 0.066	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.575
Max BC CSI: 0.904
Max Web CSI: 0.806

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1347	/-	/-	/818	/80	/191
H	1342	/-	/-	/687	/91	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.6
H Brg Width = 3.5 Min Req = 1.6
Bearings A & 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.
A - B	474	-2171	D - E	411	-1219
B - C	484	-1981	E - F	386	-1120
C - D	429	-1487	F - G	285	-958

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - L	1788	-499	K - J	1135	-273
L - K	1534	-406	J - I	759	-177

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	177	-495	F - I	183	-559
D - K	421	-82	I - G	1029	-240
E - J	165	-494	G - H	354	-1294
J - F	689	-173			

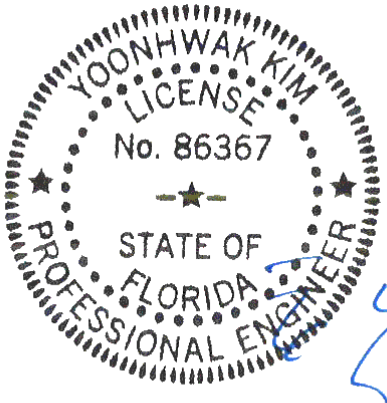
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-3-10.



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05/08/2020

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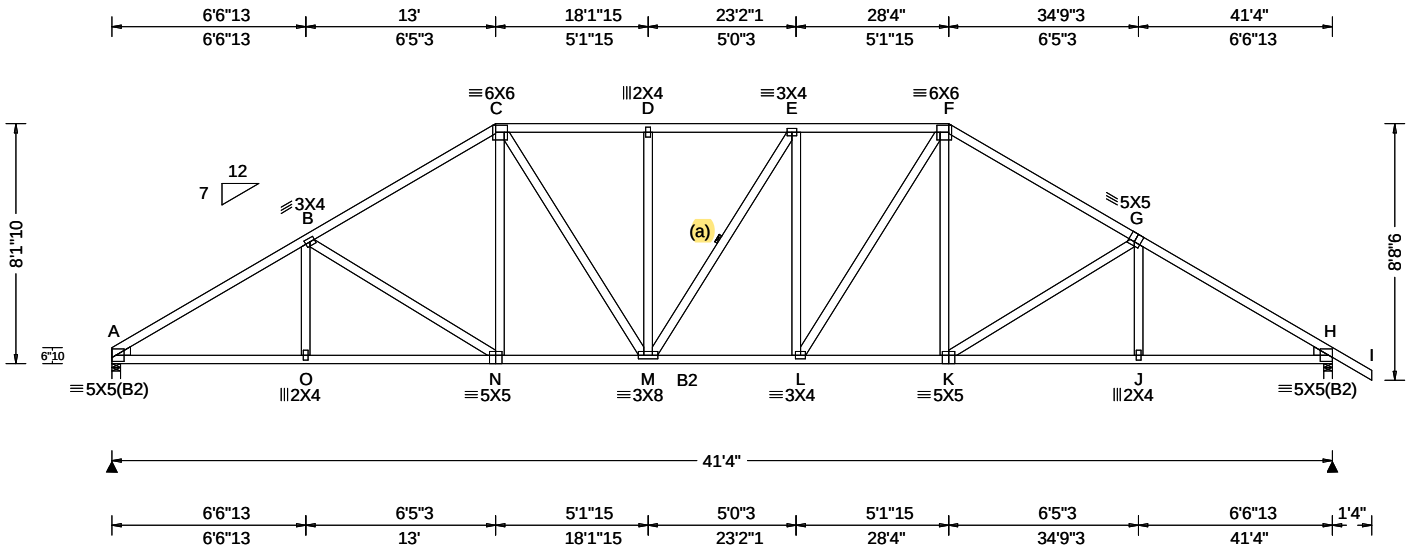
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315735 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A06		Cust: R 215 JRef:1WV32150001 T7 DrwNo: 129.20.0935.12003 / YK 05/08/2020	



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: 4.13 ft
Loc. from endwall: not in 13.00 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): 0.172	D	999	240
VERT(CL): 0.356	D	999	180
HORZ(LL): 0.076	J	-	-
HORZ(TL): 0.156	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.816
Max BC CSI: 0.614
Max Web CSI: 0.496

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1717	/-	/-	/994	/295	/233
H	1811	/-	/-	/1072	/319	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.5
H Brg Width = 3.5 Min Req = 1.5
Bearings A & 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.
A - B	680	- 2823	E - F	669	- 2223
B - C	658	- 2383	F - G	647	- 2379
C - D	675	- 2232	G - H	662	- 2808
D - E	675	- 2231			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	2337	- 478	L - K	1967	- 341
O - N	2336	- 479	K - J	2319	- 474
N - M	1969	- 337	J - H	2320	- 474
M - L	2233	- 405			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - N	169	- 437	L - F	474	- 129
C - N	423	- 77	F - K	417	- 73
C - M	477	- 129	K - G	159	- 420

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

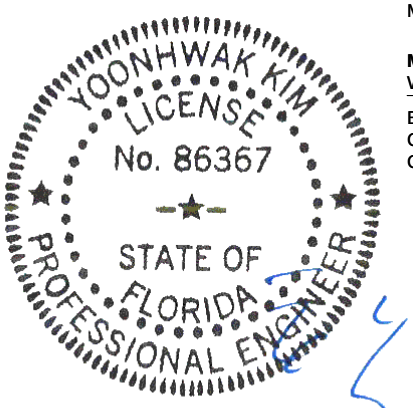
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-1-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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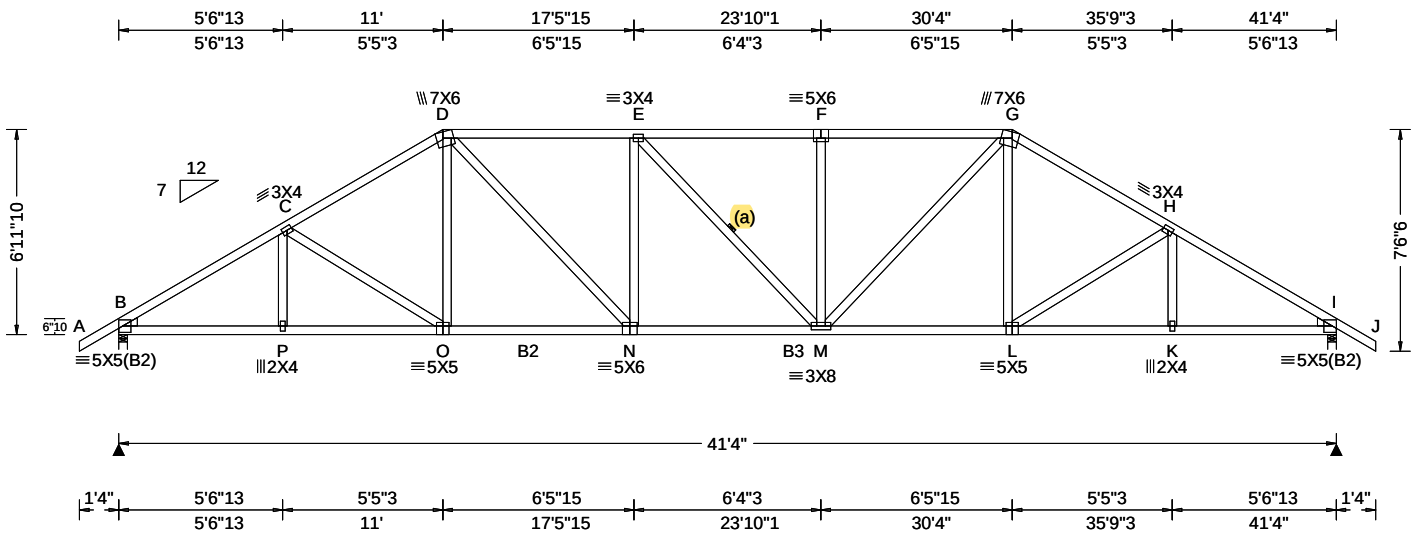
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315736 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A07		Cust: R 215 JRef:1WV32150001 T48 DrwNo: 129.20.0935.13317 / YK 05/08/2020	



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: 4.13 ft
Loc. from endwall: not in 6.50 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): 0.199	F	999	240
VERT(CL): 0.408	F	999	180
HORZ(LL): 0.080	K	-	-
HORZ(TL): 0.164	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.786
Max BC CSI: 0.765
Max Web CSI: 0.350

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1809	/-	/-	/1059	/322	/216
I	1809	/-	/-	/1059	/322	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	674	- 2802	F - G	753	- 2609
C - D	675	- 2500	G - H	676	- 2501
D - E	749	- 2597	H - I	673	- 2802
E - F	753	- 2609			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	2320	- 469	M - L	2093	- 393
P - O	2320	- 470	L - K	2320	- 493
O - N	2093	- 386	K - I	2320	- 492
N - M	2614	- 524			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - N	730	- 190	M - G	739	- 193
N - E	160	- 404	F - M	163	- 396

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2,B3 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Purlins

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

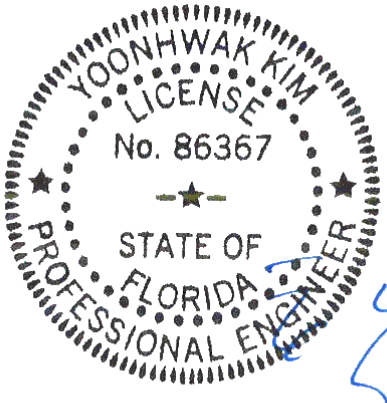
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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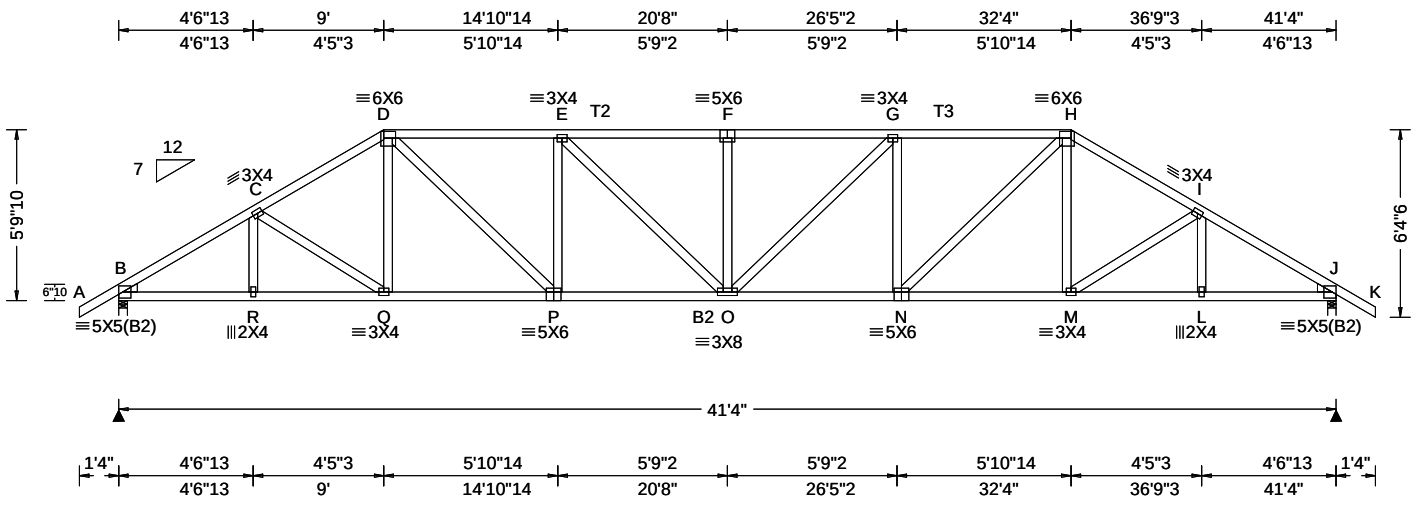
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315737 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A08		Cust: R 215 JRef:1WV32150001 T54 DrwNo: 129.20.0935.14897 / YK 05/08/2020	



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: 4.13 ft
Loc. from endwall: not in 6.50 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): 0.231	F	999	240
VERT(CL): 0.474	F	999	180
HORZ(LL): 0.078	L	-	-
HORZ(TL): 0.159	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.589
Max BC CSI: 0.754
Max Web CSI: 0.394

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1809	/-	/-	/1043	/325	/184
J	1809	/-	/-	/1043	/325	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
J Brg Width = 3.5 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	685	- 2785	F - G	892	- 3224
C - D	701	- 2609	G - H	830	- 2958
D - E	830	- 2958	H - I	702	- 2609
E - F	892	- 3224	I - J	684	- 2785

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2304	- 486	O - N	2990	- 638
R - Q	2305	- 487	N - M	2209	- 445
Q - P	2209	- 440	M - L	2305	- 510
P - O	2990	- 643	L - J	2304	- 509

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1036	- 266	G - N	205	- 606
P - E	205	- 606	N - H	1036	- 266

Lumber

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

Purlins

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

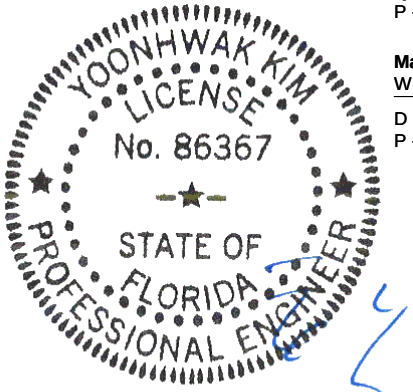
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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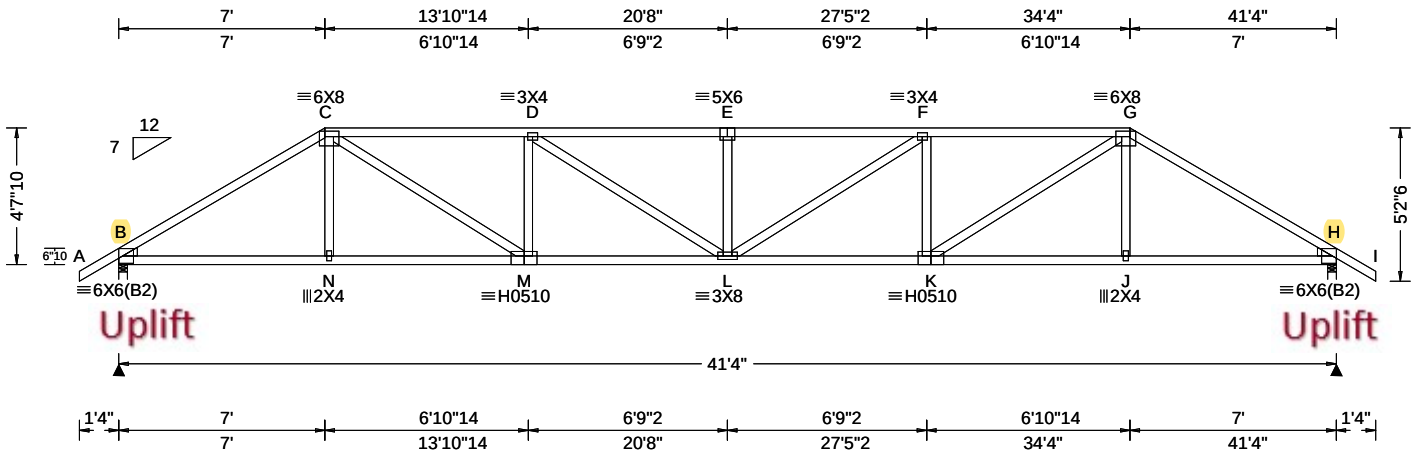
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315738 HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** A09	Cust: R 215 JRef:1WV32150001 T5 DrwNo: 129.20.0935.17647 / YK 05/08/2020	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
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: 4.13 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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.399 E	999	240
VERT(CL):	0.802 E	616	180
HORZ(LL):	0.120 J	-	-
HORZ(TL):	0.241 J	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.769
Max Web CSI: 0.806

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	4368	/-	/-	/-	/963	/-
H	4368	/-	/-	/-	/963	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
H Brg Width = 3.5 Min Req = 1.8
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	835	-3770	E - F	1254	-5572
C - D	1115	-4972	F - G	1115	-4972
D - E	1254	-5572	G - H	835	-3770

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	3180	-697	L - K	5028	-1133
N - M	3189	-695	K - J	3189	-695
M - L	5028	-1133	J - H	3180	-697

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	2116	-498	L - F	651	-144
M - D	281	-848	F - K	281	-848
D - L	651	-144	K - G	2116	-498
E - L	185	-437			

Lumber

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

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	63 plf at	-1.33 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	34.33
TC: From	63 plf at	34.33 to	63 plf at	42.67
BC: From	5 plf at	-1.33 to	5 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	34.30
BC: From	20 plf at	34.30 to	20 plf at	41.33
BC: From	5 plf at	41.33 to	5 plf at	42.67

TC: 466 lb Conc. Load at 7.03,34.30
TC: 199 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,20.67,22.27,24.27,26.27,28.27,30.27 32.27
BC: 500 lb Conc. Load at 7.03,34.30
BC: 134 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06,19.06,20.67,22.27,24.27,26.27,28.27,30.27 32.27

Wind

Wind loads and reactions based on MWFRS.

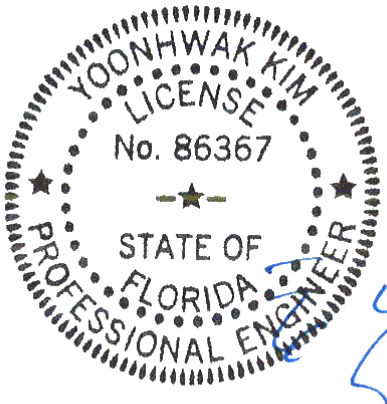
Purlins

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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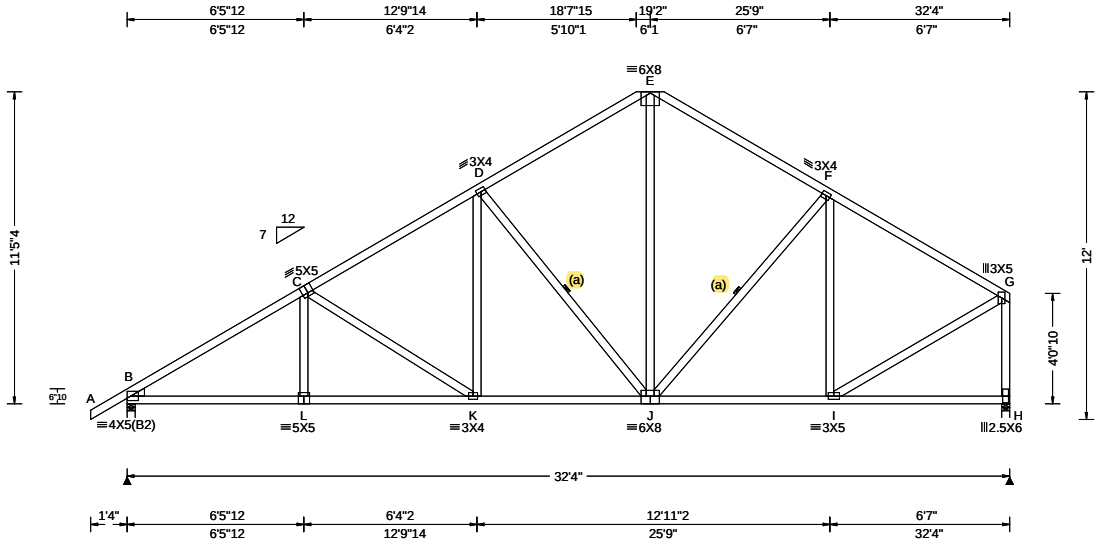
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315739 SPEC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4228 Roling PLan **Truss Label:** B01	Cust: R 215 JRef:1WV32150001 T28 DrwNo: 129.20.0935.19260 / YK 05/08/2020	



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: 3.23 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): 0.106	K	999	240
VERT(CL): 0.201	K	999	180
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.076	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.715
Max BC CSI: 0.985
Max Web CSI: 0.546

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
B	1536	/-	/-		/874	/18	/275
H	1483	/-	/-		/711	/18	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
H Brg Width = 3.5 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	393	-2305	E - F	359	-1333
C - D	381	-1884	F - G	277	-1351
D - E	352	-1325			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1889	-371	K - J	1532	-247
L - K	1887	-372	J - I	1102	-166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	148	-411	F - I	124	-389
K - D	460	-63	I - G	1244	-180
D - J	220	-740	G - H	285	-1436
E - J	821	-217			

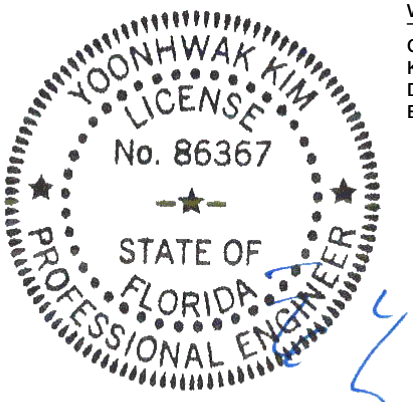
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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 end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 11-5-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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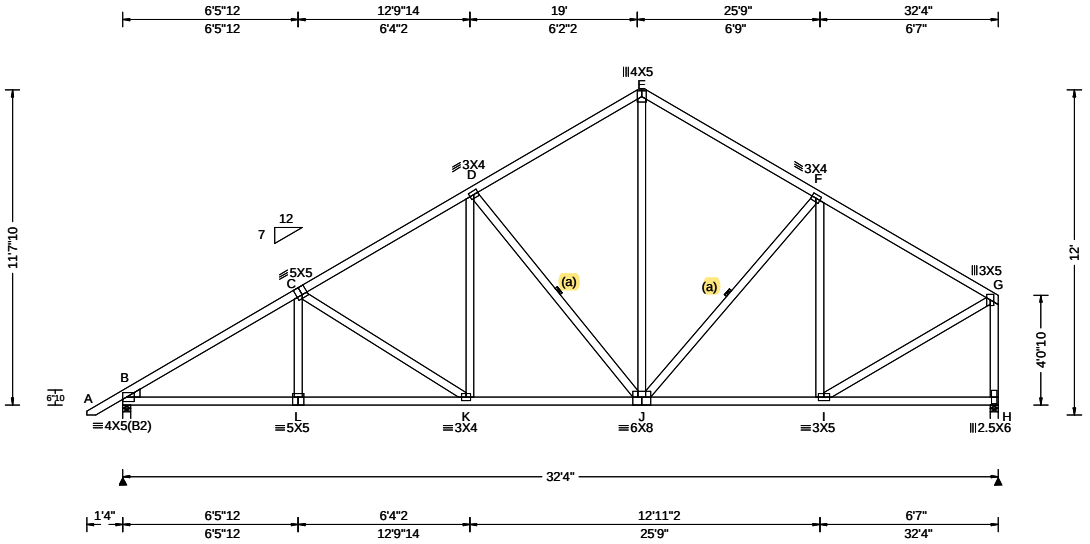
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315740 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B02		Cust: R 215 JRef:1WV32150001 T32 DrwNo: 129.20.0935.20790 / YK 05/08/2020	



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: 3.23 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): 0.088	K	999	240
VERT(CL): 0.181	K	999	180
HORZ(LL): 0.033	H	-	-
HORZ(TL): 0.069	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.668
Max BC CSI: 0.894
Max Web CSI: 0.559

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1436	/-	/-	/876	/20	/280
H	1340	/-	/-	/716	/20	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
H Brg Width = 3.5 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	403	- 2132	E - F	369	- 1194
C - D	392	- 1692	F - G	285	- 1202
D - E	362	- 1186			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1742	- 378	K - J	1368	- 255
L - K	1740	- 379	J - I	974	- 173

Maximum Web Forces Per Ply (lbs)

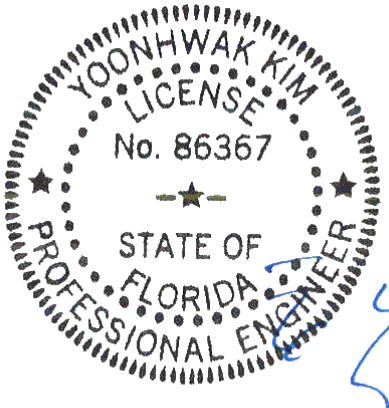
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	147	- 433	F - I	128	- 405
K - D	444	- 63	I - G	1094	- 188
D - J	224	- 689	G - H	293	- 1286
E - J	710	- 222			

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 11-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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AN ITW COMPANY
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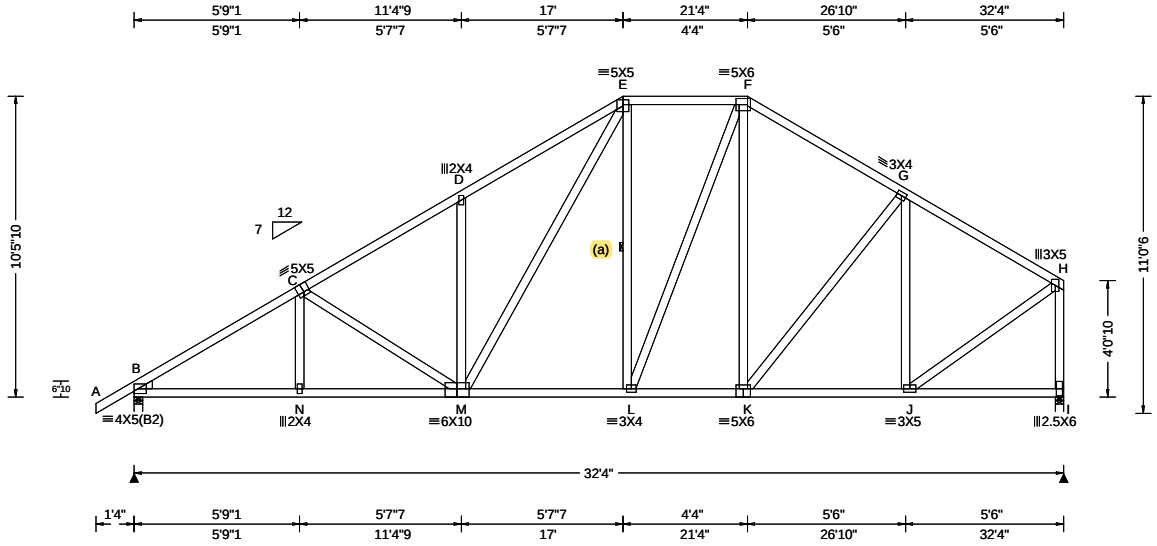
Suite 305
Orlando FL, 32821

SEQN: 315741 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B03		Cust: R 215 JRef:1WV32150001 T25 DrwNo: 129.20.0935.22993 / YK 05/08/2020	



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: 3.23 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): 0.093	D	999	240
VERT(CL): 0.191	D	999	180
HORZ(LL): 0.032	I	-	-
HORZ(TL): 0.066	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.657
Max BC CSI: 0.931
Max Web CSI: 0.662

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1440	/-	/-	/883	/52	/248
I	1339	/-	/-	/721	/24	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
I Brg Width = 3.5 Min Req = 1.6
Bearings B & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	439	-2140	E - F	397	-1069
C - D	435	-1775	F - G	394	-1217
D - E	555	-1789	G - H	290	-1119

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	1752	-417	L - K	967	-164
N - M	1751	-418	K - J	919	-190
M - L	1073	-194			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - M	176	-379	J - H	1089	-221
M - E	800	-256	H - I	319	-1295
G - J	148	-500			

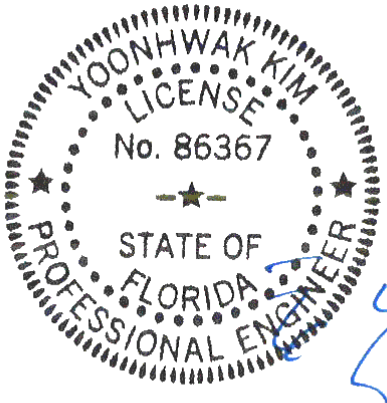
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 10-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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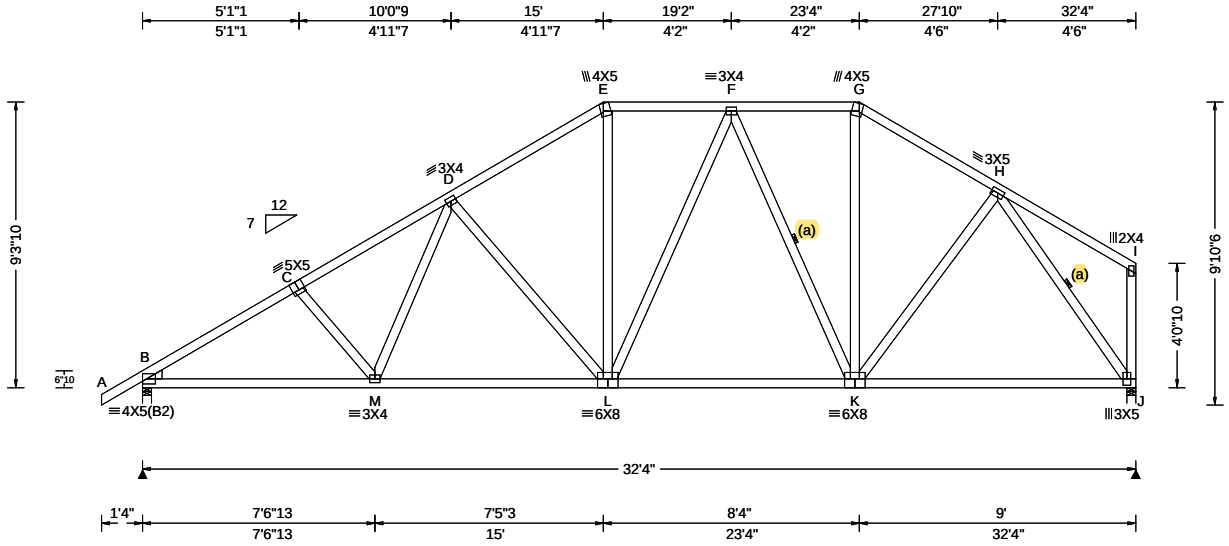
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315742 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B04		Cust: R 215 JRef:1WV32150001 T26 DrwNo: 129.20.0935.24713 / YK 05/08/2020	



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: 3.23 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): 0.086	D	999	240
VERT(CL): 0.177	D	999	180
HORZ(LL): 0.037	J	-	-
HORZ(TL): 0.077	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.950
Max Web CSI: 0.600

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1440	/-	/-	/882	/75	/218
J	1339	/-	/-	/718	/34	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
J Brg Width = 3.5 Min Req = 1.6
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	467	- 2152	E - F	418	- 1213
C - D	479	- 1964	F - G	360	- 999
D - E	437	- 1484	G - H	386	- 1229

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	1766	- 447	L - K	1162	- 241
M - L	1528	- 361	K - J	810	- 190

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - L	178	- 495	F - K	127	- 402
E - L	434	- 101	H - J	328	- 1387

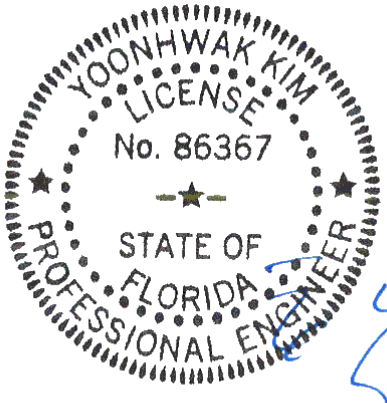
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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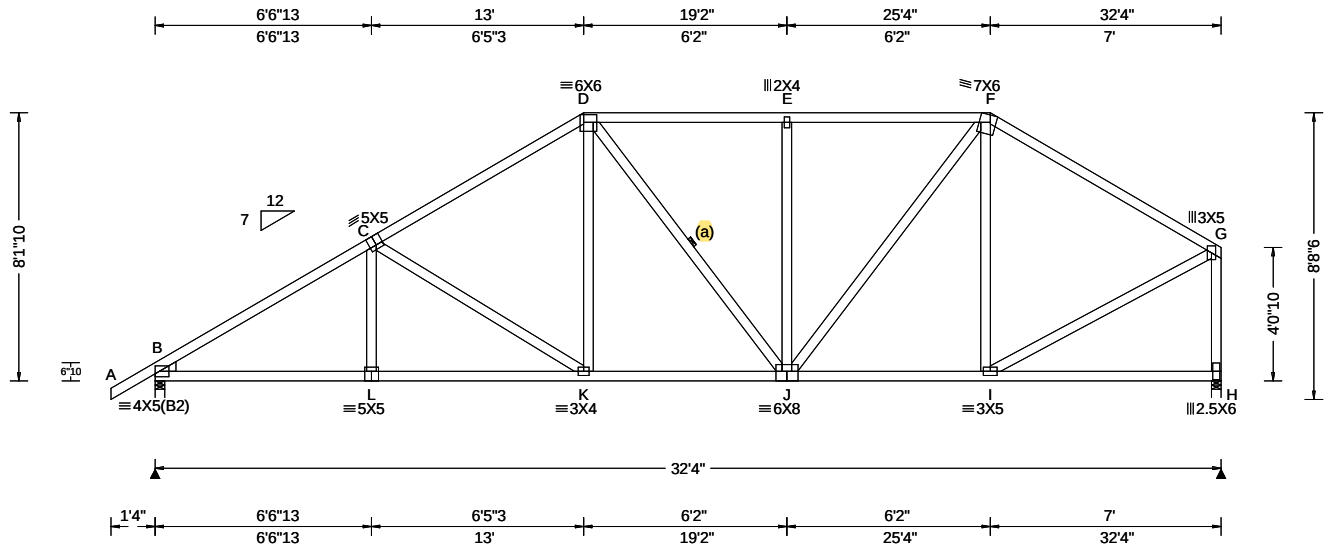
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315743 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B05		Cust: R 215 JRef:1WV32150001 T15 DrwNo: 129.20.0935.26390 / YK 05/08/2020	



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: 3.23 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): 0.084	K	999	240
VERT(CL): 0.174	K	999	180
HORZ(LL): 0.033	H	-	-
HORZ(TL): 0.068	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.745
Max BC CSI: 0.894
Max Web CSI: 0.516

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1440	/-	/-	/877	/247	/187
H	1339	/-	/-	/711	/238	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
H Brg Width = 3.5 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	477	-2131	E - F	444	-1359
C - D	458	-1672	F - G	346	-1234
D - E	444	-1359			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1740	-443	K - J	1357	-309
L - K	1738	-443	J - I	981	-216

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	160	-454	I - G	1089	-236
D - K	453	-70	G - H	346	-1280
J - F	610	-149			

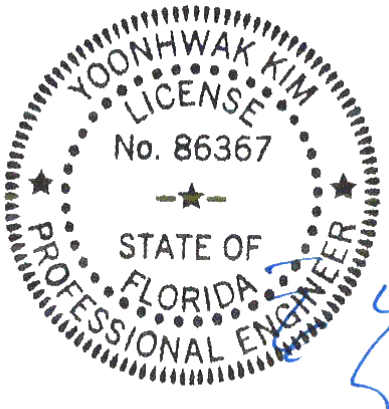
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 8-1-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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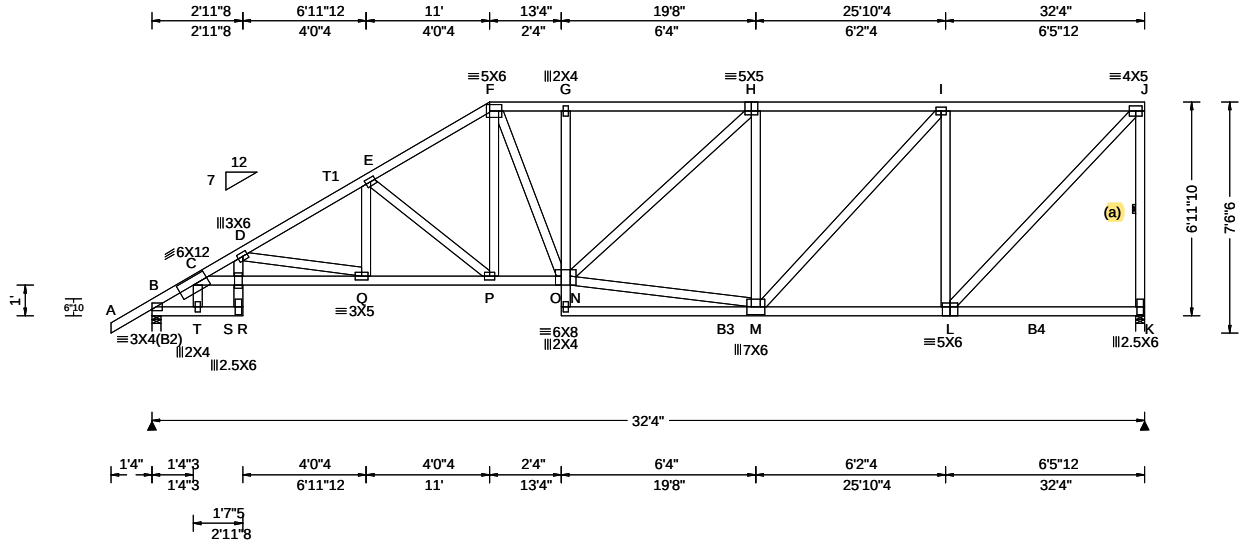
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315744 HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B06	Cust: R 215 JRef:1WV32150001 T29 DrwNo: 129.20.0935.28817 / YK 05/08/2020	



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: 3.23 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): 0.168	Q	999	240
VERT(CL): 0.346	Q	999	180
HORZ(LL): 0.118	L	-	-
HORZ(TL): 0.244	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.697
Max Web CSI: 0.850

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1440	/-	/-	/880	/237	/205
K	1339	/-	/-	/694	/264	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
K Brg Width = 3.5 Min Req = 1.6
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	0	- 651	F - G	542	- 1917
C - D	1004	- 3961	G - H	540	- 1910
D - E	646	- 2658	H - I	425	- 1575
E - F	540	- 2057	I - J	284	- 1062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - S	3515	- 1069	P - N	1717	- 497
S - Q	3532	- 1078	M - L	1105	- 298
Q - P	2219	- 665			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	342	- 1046	N - H	434	- 149
S - D	515	- 138	N - M	1562	- 426
S - R	526	- 160	H - M	242	- 672
D - Q	418	- 1318	M - I	701	- 192
Q - E	447	- 98	I - L	323	- 982
E - P	222	- 664	L - J	1543	- 413
F - P	396	- 100	J - K	379	- 1288
F - N	497	- 130			

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3;

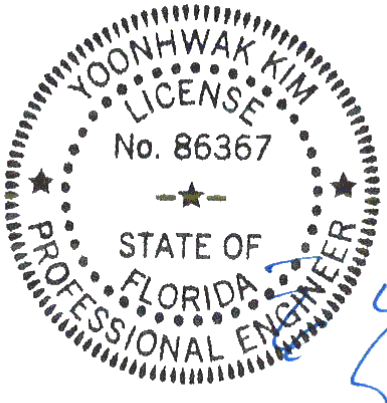
Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 3X4 except as noted.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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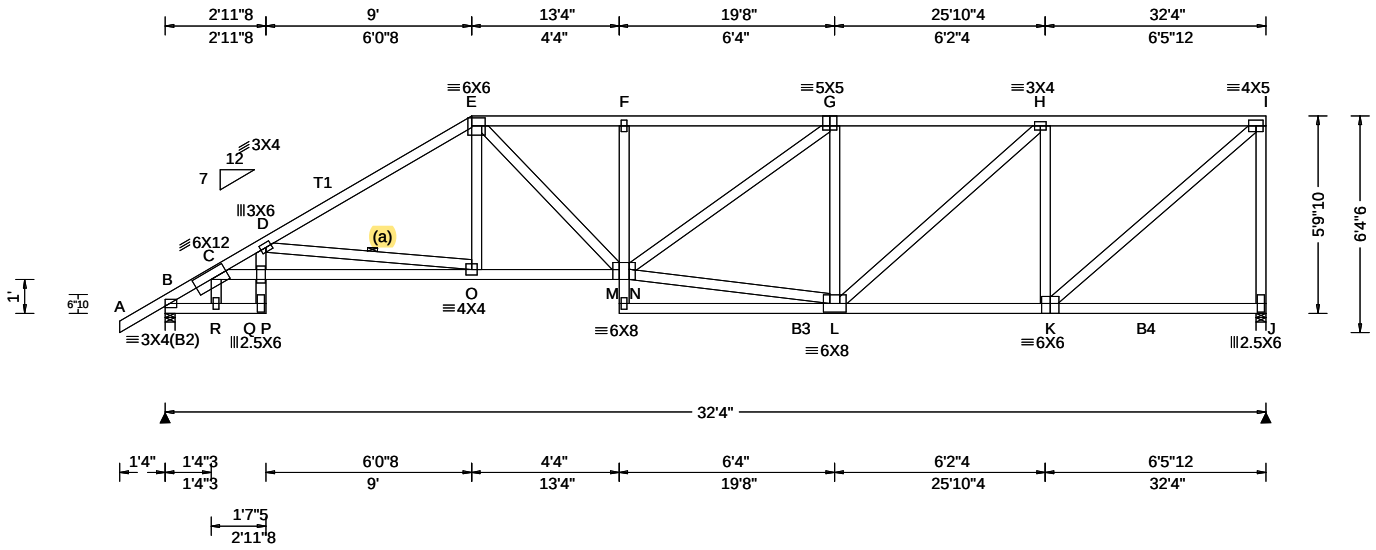
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315745 HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B07	Cust: R 215 JRef:1WV32150001 T21 DrwNo: 129.20.0935.30680 / YK 05/08/2020	



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: 3.23 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): 0.195	F	999	240
VERT(CL): 0.403	F	960	180
HORZ(LL): 0.132	K	-	-
HORZ(TL): 0.272	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.689
Max Web CSI: 0.769

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1440	/-	/-	/859	/245	/172
J	1339	/-	/-	/682	/258	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
J Brg Width = 3.5 Min Req = 1.6
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	20	- 651	F - G	660	- 2416
C - D	1060	- 4060	G - H	503	- 1908
D - E	596	- 2380	H - I	338	- 1287
E - F	663	- 2428			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - Q	3628	- 1099	O - M	1976	- 563
Q - O	3640	- 1109	L - K	1339	- 355

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	326	- 1034	M - L	1885	- 501
Q - D	565	- 122	G - L	251	- 732
Q - P	521	- 152	L - H	771	- 204
D - O	553	- 1684	H - K	318	- 982
E - O	423	- 61	K - I	1705	- 448
E - M	635	- 154	I - J	374	- 1288
M - G	602	- 188			

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3;

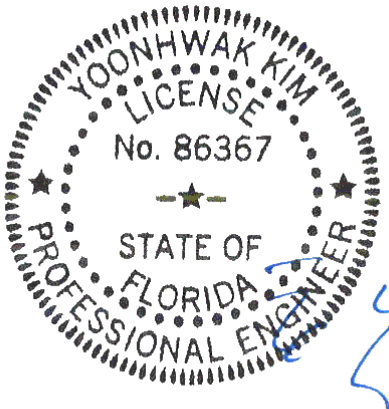
Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 2X4 except as noted.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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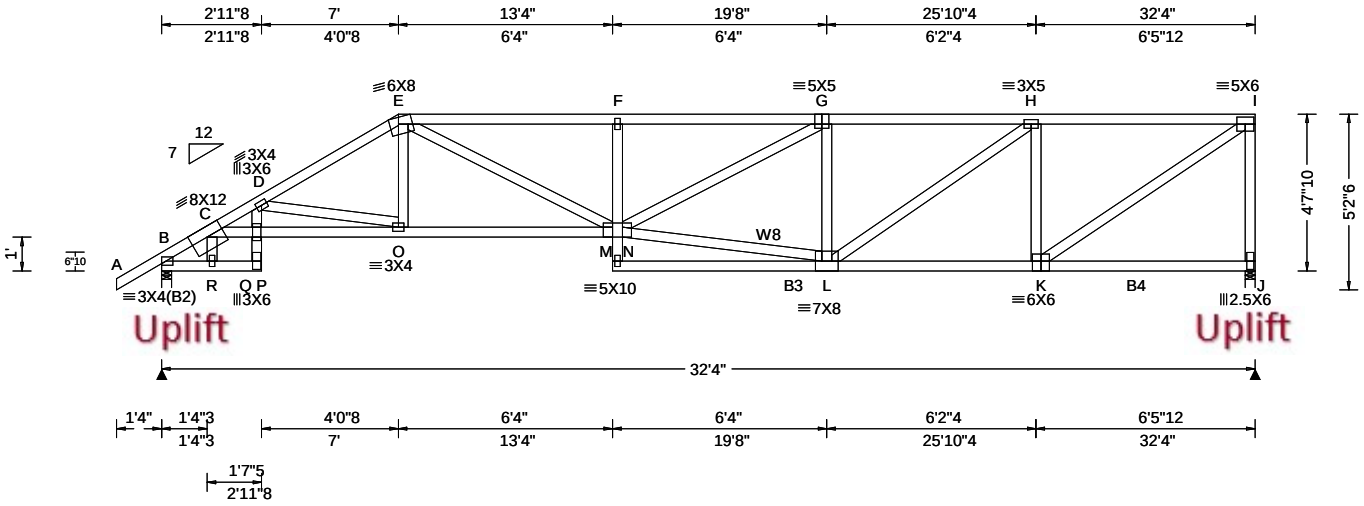
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315746 HIPM FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** B08	Cust: R 215 JRef:1WV32150001 T14 DrwNo: 129.20.0935.34923 / YK 05/08/2020	

2 Complete Trusses Required



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: 3.23 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): 0.299	F	999	240
VERT(CL): 0.603	F	642	180
HORZ(LL): 0.169	K	-	-
HORZ(TL): 0.341	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.801
Max BC CSI: 0.982
Max Web CSI: 0.962

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	3240	/-	/-	/-	/726	/-
J	3685	/-	/-	/-	/858	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
J Brg Width = 3.5 Min Req = 2.2
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	175	- 773	F - G	992	- 4277
C - D	1063	- 4819	G - H	711	- 3101
D - E	788	- 3537	H - I	481	- 2083
E - F	1000	- 4311			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - Q	4266	- 938	O - M	3049	- 676
Q - O	4295	- 946	L - K	2160	- 504

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	295	- 1306	M - G	1293	- 307
Q - D	557	- 107	M - L	3057	- 705
Q - P	637	- 133	G - L	299	- 979
D - O	277	- 1280	L - H	1159	- 255
E - O	595	- 51	H - K	352	- 1162
E - M	1410	- 361	K - I	2525	- 583
F - M	172	- 428	I - J	437	- 1687

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3; W8 2x4 SP #2;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	63 plf at	-1.33 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	32.33
BC: From	5 plf at	-1.33 to	5 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	32.33

TC: 566 lb Conc. Load at 7.03
TC: 212 lb Conc. Load at 9.06,11.06,13.06
TC: 199 lb Conc. Load at 15.06,17.06,19.06,21.06 23.06,25.06,27.06,29.06,31.06,32.27
BC: 377 lb Conc. Load at 7.03
BC: 98 lb Conc. Load at 9.06,11.06,13.06
BC: 134 lb Conc. Load at 15.06,17.06,19.06,21.06 23.06,25.06,27.06,29.06,31.06,32.27

Plating Notes

All plates are 2X4 except as noted.

Purlins

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

Wind

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information.

The overall height of this truss excluding overhang is 4-7-10.

YOONHWA KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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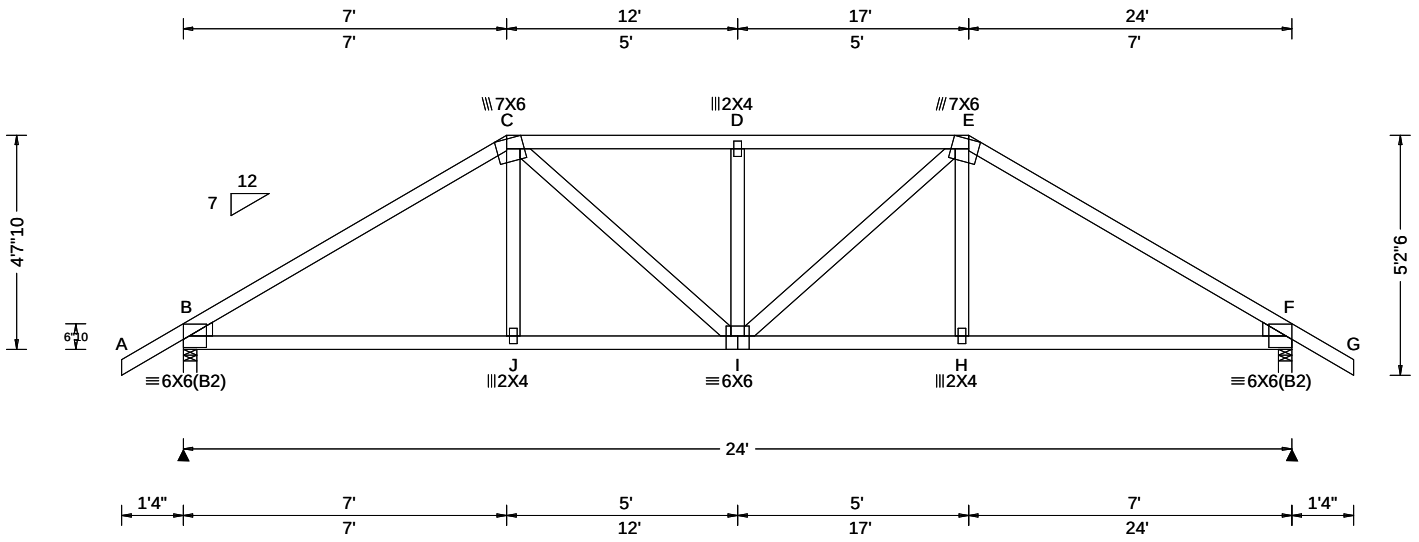
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315747 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** C01		Cust: R 215 JRef:1WV32150001 T17 DrwNo: 129.20.0935.42347 / YK 05/08/2020	



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 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: 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): 0.158	D	999	240
VERT(CL): 0.318	D	899	180
HORZ(LL): 0.074	H	-	-
HORZ(TL): 0.150	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.562
Max BC CSI: 0.794
Max Web CSI: 0.343

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2512	/-	/-	/-	/528	/-
F	2512	/-	/-	/-	/528	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 2.1
F Brg Width = 3.5 Min Req = 2.1
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	861	- 4078	D - E	868	- 4098
C - D	868	- 4098	E - F	861	- 4078

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	3396	- 699	I - H	3415	- 697
J - I	3415	- 697	H - F	3396	- 699

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	584	0	I - E	901	- 226
C - I	901	- 226	H - E	584	0
D - I	292	- 721			

Lumber

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

Special Loads

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

TC: From	63 plf at	-1.33 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	17.00
TC: From	63 plf at	17.00 to	63 plf at	25.33
BC: From	5 plf at	-1.33 to	5 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	16.97
BC: From	20 plf at	16.97 to	20 plf at	24.00
BC: From	5 plf at	24.00 to	5 plf at	25.33

TC: 466 lb Conc. Load at 7.03,16.97
TC: 199 lb Conc. Load at 9.06,11.06,12.94,14.94
BC: 500 lb Conc. Load at 7.03,16.97
BC: 134 lb Conc. Load at 9.06,11.06,12.94,14.94

Purlins

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

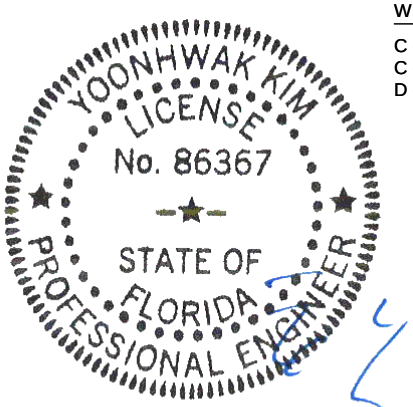
Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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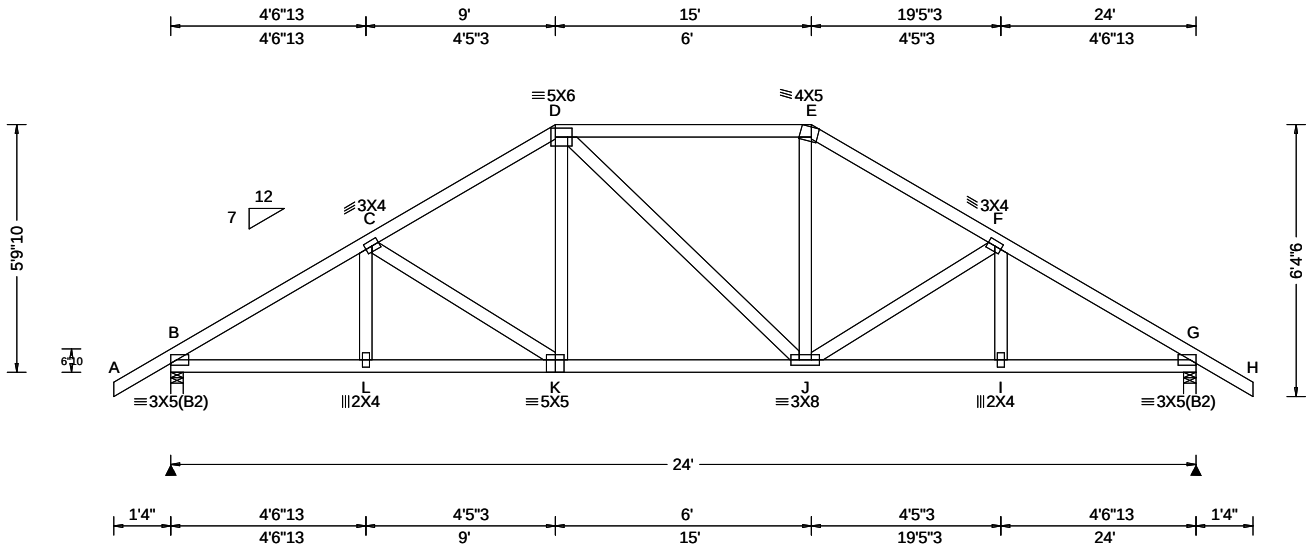
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315748 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** C02		Cust: R 215 JRef:1WV32150001 T16 DrwNo: 129.20.0935.43957 / YK 05/08/2020	



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): 0.058	K	999	240
VERT(CL): 0.119	K	999	180
HORZ(LL): 0.031	I	-	-
HORZ(TL): 0.064	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.473
Max BC CSI: 0.672
Max Web CSI: 0.133

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1088	/-	/-	/648	/191	/174
G	1088	/-	/-	/648	/191	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 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	353	- 1515	E - F	348	- 1250
C - D	349	- 1254	F - G	352	- 1515
D - E	338	- 1035			

Maximum Bot Chord Forces Per Ply (lbs)

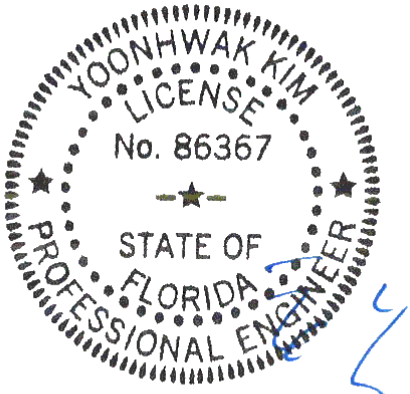
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1227	- 205	J - I	1227	- 228
L - K	1227	- 205	I - G	1227	- 227
K - J	1032	- 139			

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

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

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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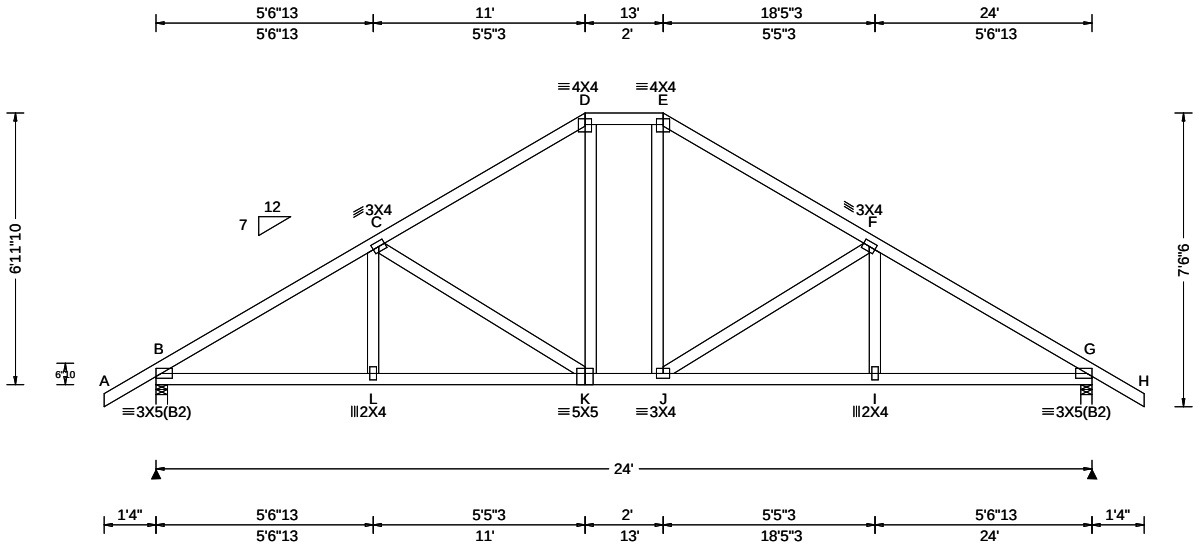
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315749 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** C03		Cust: R 215 JRef:1WV32150001 T18 DrwNo: 129.20.0935.45957 / YK 05/08/2020	



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): 0.059	J	999	240
VERT(CL): 0.131	J	999	180
HORZ(LL): 0.032	I	-	-
HORZ(TL): 0.064	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.488
Max BC CSI: 0.647
Max Web CSI: 0.361

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1088	/-	/-	/650	/188	/204
G	1088	/-	/-	/650	/188	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 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	330	- 1514	E - F	316	- 1124
C - D	316	- 1124	F - G	329	- 1514
D - E	305	- 893			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1222	- 180	J - I	1221	- 200
L - K	1221	- 180	I - G	1222	- 199
K - J	893	- 77			

Maximum Web Forces Per Ply (lbs)

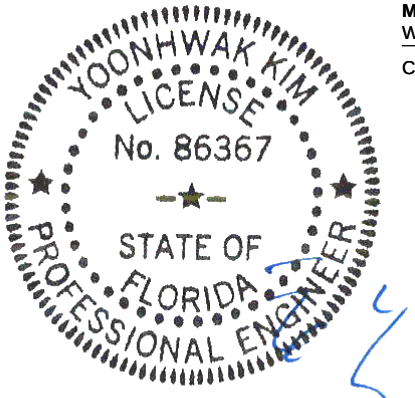
Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	148	- 438	J - F	147	- 439

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

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

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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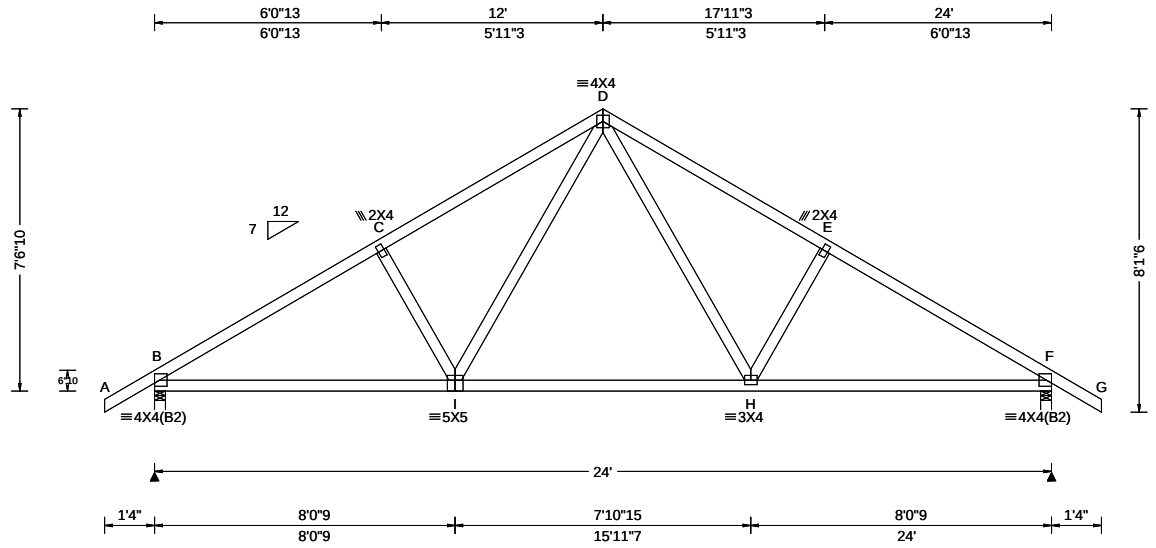
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315750 COMN FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 20-4228 Roling PLan **Truss Label:** C04	Cust: R 215 JRef:1WV32150001 T46 DrwNo: 129.20.0935.47700 / YK 05/08/2020	



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): 0.073	H	999	240
VERT(CL): 0.140	H	999	180
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.069	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.555
Max BC CSI: 0.739
Max Web CSI: 0.216

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1160	/-	/-	/649	/186	/219
F	1160	/-	/-	/649	/186	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 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	311	-1644	D - E	350	-1465
C - D	349	-1463	E - F	311	-1646

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1329	-164	H - F	1331	-178
I - H	914	-42			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	562	-126	D - H	566	-125

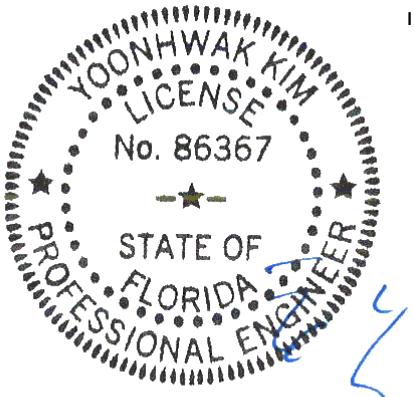
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7-6-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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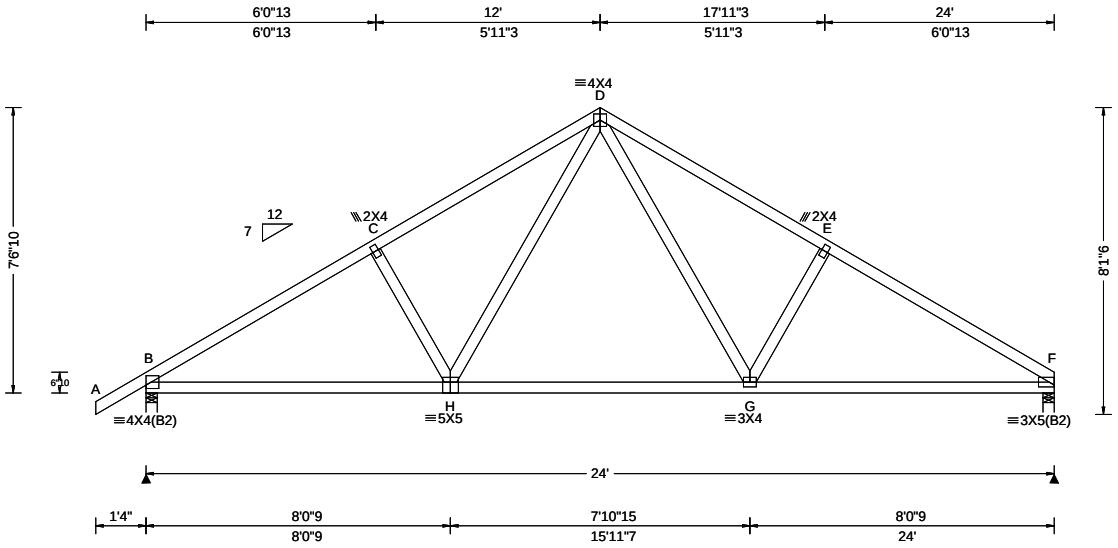
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315751 COMN FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 20-4228 Roling PLan **Truss Label:** C05	Cust: R 215 JRef:1WV32150001 T24 DrwNo: 129.20.0935.49283 / YK 05/08/2020	



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): 0.072	H	999	240
VERT(CL): 0.138	H	999	180
HORZ(LL): 0.034	G	-	-
HORZ(TL): 0.065	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.552
Max BC CSI: 0.736
Max Web CSI: 0.221

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1162	/-	/-	/649	/18	/204
F	1067	/-	/-	/572	/11	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 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	315	- 1648	D - E	369	- 1479
C - D	354	- 1468	E - F	329	- 1660

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	1333	- 206	G - F	1347	- 210
H - G	919	- 71			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - D	561	- 124	D - G	581	- 130

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.

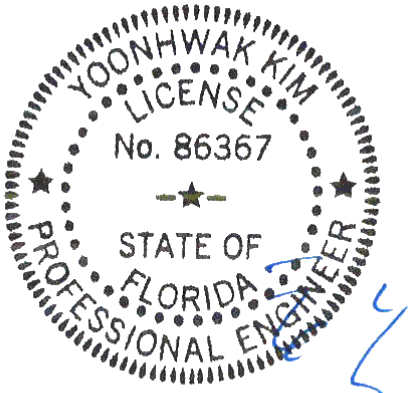
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7-6-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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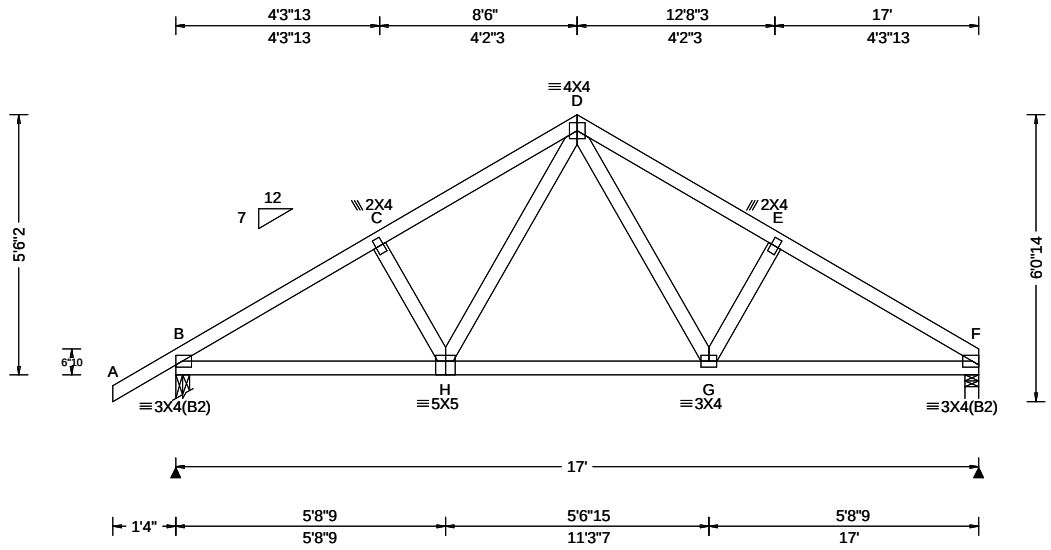
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315752 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 20-4228 Roling PLan **Truss Label:** D01	Cust: R 215 JRef:1WV32150001 T8 DrwNo: 129.20.0935.50893 / YK 05/08/2020



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): 0.030	H	999	240
VERT(CL): 0.062	H	999	180
HORZ(LL): 0.014	G	-	-
HORZ(TL): 0.029	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.347
Max BC CSI: 0.446
Max Web CSI: 0.125

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	801	/-	/-	/482	/139	/151
F	703	/-	/-	/405	/114	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 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	225	-1020	D - E	268	-906
C - D	253	-893	E - F	239	-1032

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	811	-146	G - F	828	-152
H - G	572	-52			

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.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-6-2.

FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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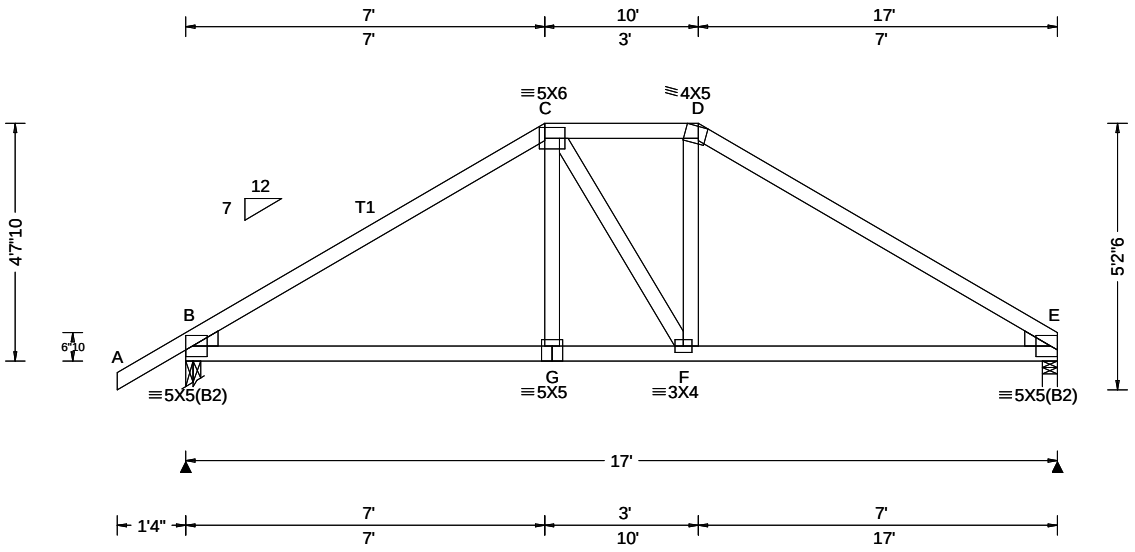
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315753 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** D02		Cust: R 215 JRef:1WV32150001 T30 DrwNo: 129.20.0935.52443 / YK 05/08/2020	



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 13.00 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: 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):	0.077 F	999	240
VERT(CL):	0.156 F	999	180
HORZ(LL):	0.038 F	-	-
HORZ(TL):	0.077 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.902
Max BC CSI: 0.539
Max Web CSI: 0.223

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1871	/-	/-	/-	/381	/-
E	1773	/-	/-	/-	/344	/-

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	589	- 2884	D - E	591	- 2885
C - D	465	- 2419			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	2373	- 465	F - E	2380	- 469
G - F	2393	- 463			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - G	572	0	F - D	586	0

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Special Loads

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

TC: From	63 plf at	-1.33 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	10.00
TC: From	63 plf at	10.00 to	63 plf at	17.00
BC: From	5 plf at	-1.33 to	5 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	9.97
BC: From	20 plf at	9.97 to	20 plf at	17.00

TC: 466 lb Conc. Load at 7.03, 9.97
TC: 199 lb Conc. Load at 8.50
BC: 500 lb Conc. Load at 7.03, 9.97
BC: 134 lb Conc. Load at 8.50

Purlins

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

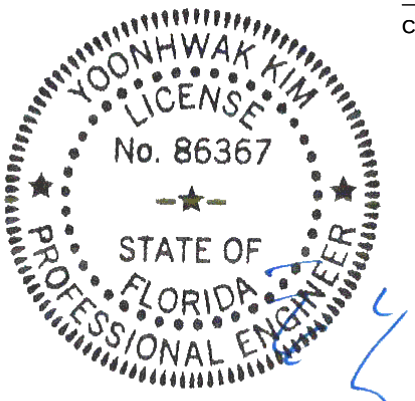
Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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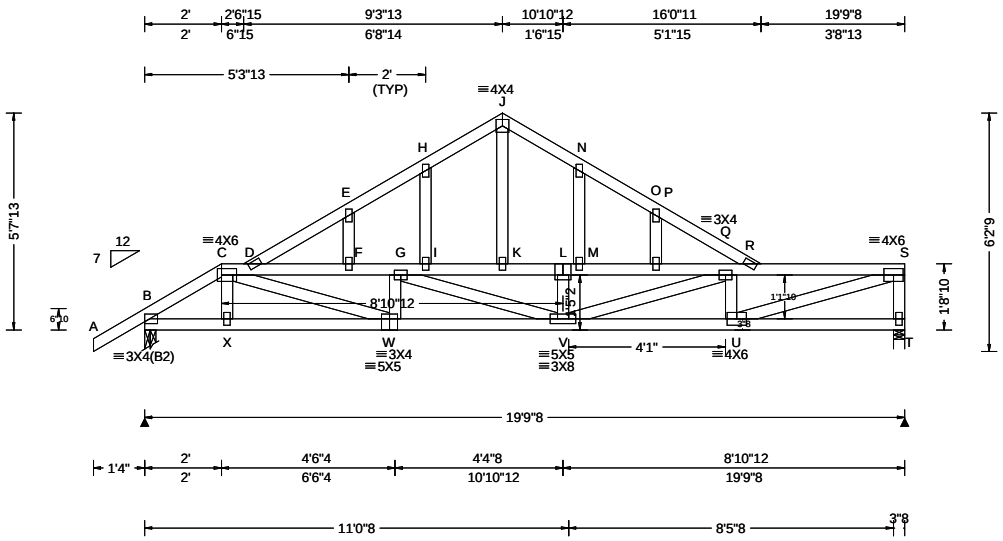
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315754 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** D03	Cust: R 215 JRef:1WV32150001 T2 DrwNo: 129.20.0935.55023 / YK 05/08/2020



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): 0.107	M	999	240
VERT(CL): 0.211	M	999	180
HORZ(LL): 0.035	E	-	-
HORZ(TL): 0.070	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.490
Max BC CSI: 0.657
Max Web CSI: 0.694

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	924	/-	/-	/-	/251	/-
T	723	/-	/-	/-	/168	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	318	-1250	J - N	107	-435
C - D	399	-1662	K - L	308	-1284
D - E	126	-512	L - M	308	-1284
D - F	304	-1261	M - O	308	-1285
E - H	112	-462	N - P	120	-498
F - G	305	-1262	O - Q	305	-1279
G - I	307	-1281	P - R	121	-497
H - J	115	-463	Q - R	314	-1360
I - K	308	-1284	R - S	407	-1758

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - X	1023	-256	W - V	1673	-411
X - W	1026	-252	V - U	1850	-440

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	688	-153	U - S	1822	-422
Q - U	161	-460	S - T	174	-675

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

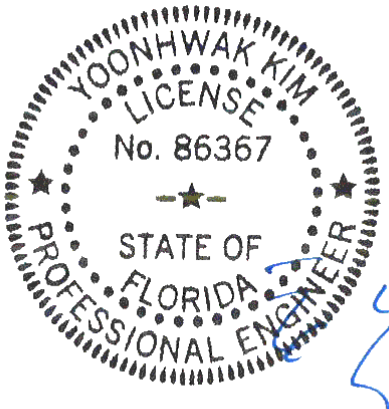
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.33 to 63 plf at 2.00
TC: From 32 plf at 2.00 to 32 plf at 19.79
BC: From 5 plf at -1.33 to 5 plf at 0.00
BC: From 10 plf at 0.00 to 10 plf at 19.79
TC: 50 lb Conc. Load at 2.03
TC: 32 lb Conc. Load at 4.06, 6.06, 8.06,10.06 12.06,14.06,16.06,18.06
BC: 83 lb Conc. Load at 2.03
BC: 35 lb Conc. Load at 4.06, 6.06, 8.06,10.06 12.06,14.06,16.06,18.06

Plating Notes
All plates are 2X4 except as noted.

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

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-7-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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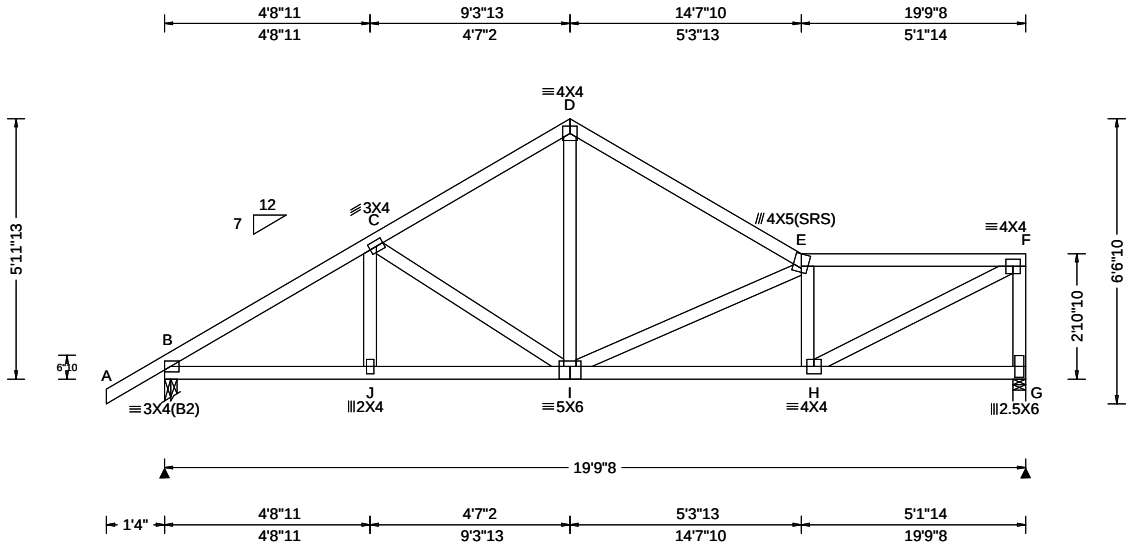
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315755 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** D04		Cust: R 215 JRef:1WV32150001 T12 DrwNo: 129.20.0935.56610 / YK 05/08/2020	



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): 0.045	I	999	240
VERT(CL): 0.092	I	999	180
HORZ(LL): 0.015	G	-	-
HORZ(TL): 0.030	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.411
Max BC CSI: 0.528
Max Web CSI: 0.513

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	919	/-	/-	/555	/155	/138
G	817	/-	/-	/420	/145	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 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	263	-1217	D - E	258	-935
C - D	256	-917	E - F	305	-1202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	974	-243	I - H	1261	-325
J - I	973	-244			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - I	536	-131	H - F	1347	-341
I - E	189	-585	F - G	225	-773
E - H	184	-531			

Lumber

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

Purlins

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

Wind

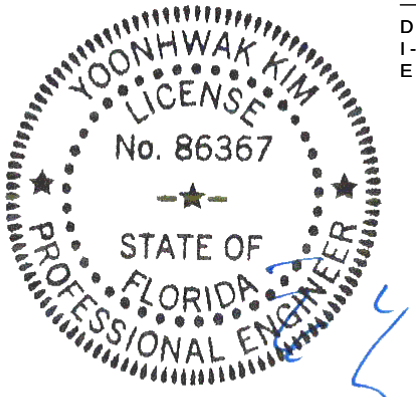
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 5-11-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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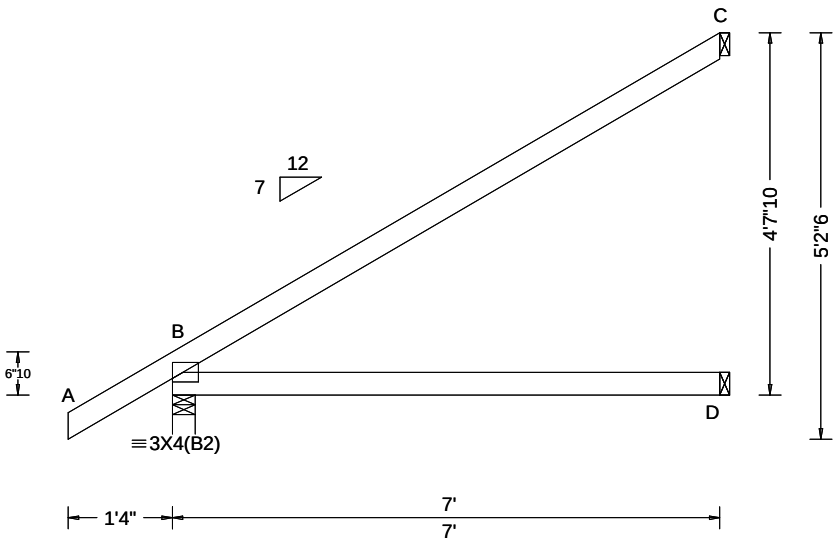
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315756 EJAC FROM: CDM	Ply: 1 Qty: 34	**Job Number:** 20-4228 Roling PLan **Truss Label:** J01	Cust: R 215 JRef:1WV32150001 T10 DrwNo: 129.20.0935.58007 / YK 05/08/2020



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): 0.012 D - -
HORZ(TL): 0.023 D - -
Creep Factor: 2.0
Max TC CSI: 0.807
Max BC CSI: 0.553
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

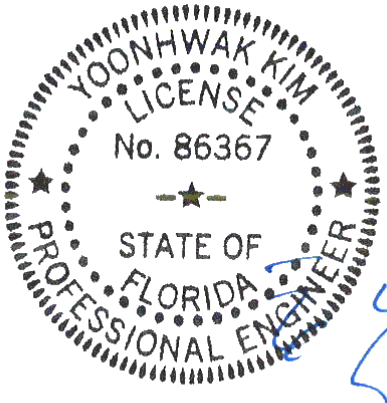
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	394	/-	/-	/272	/36	/138
D	134	/-	/-	/93	/-	/-
C	199	/-	/-	/103	/84	/-

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.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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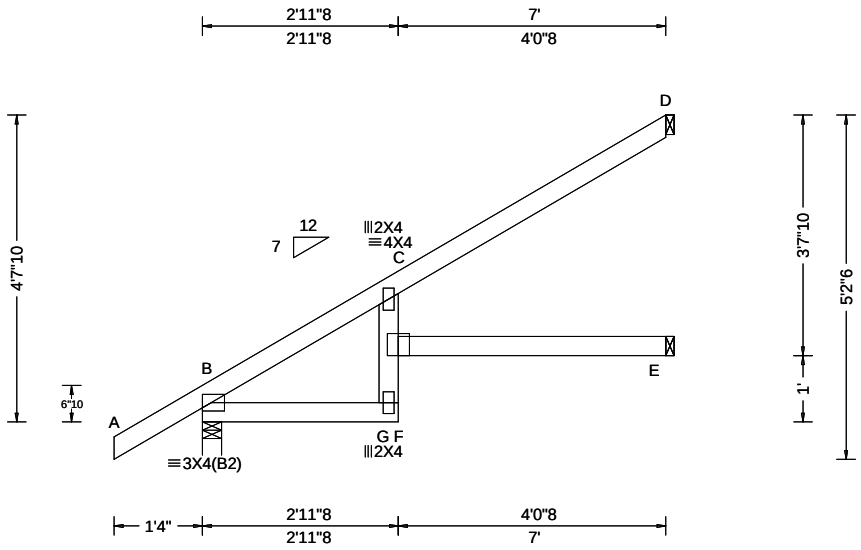
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315757 EJAC FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 20-4228 Roling PLan **Truss Label:** J01A	Cust: R 215 JRef:1WV32150001 T50 DrwNo: 129.20.0935.59127 / YK 05/08/2020



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): 0.214	F	388	240
VERT(CL): 0.432	F	192	180
HORZ(LL): 0.138	C	-	-
HORZ(TL): 0.279	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.974
Max BC CSI: 0.300
Max Web CSI: 0.361

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

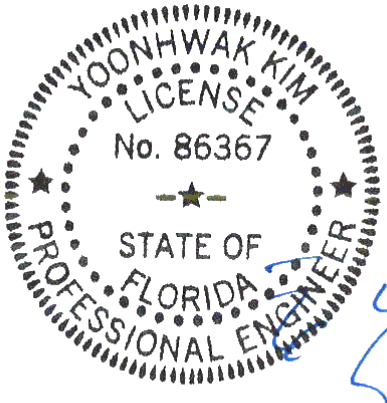
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	394	/-	/-	/272	/36	/138
E	98	/-	/-	/71	/3	/-
D	212	/-	/-	/125	/79	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 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.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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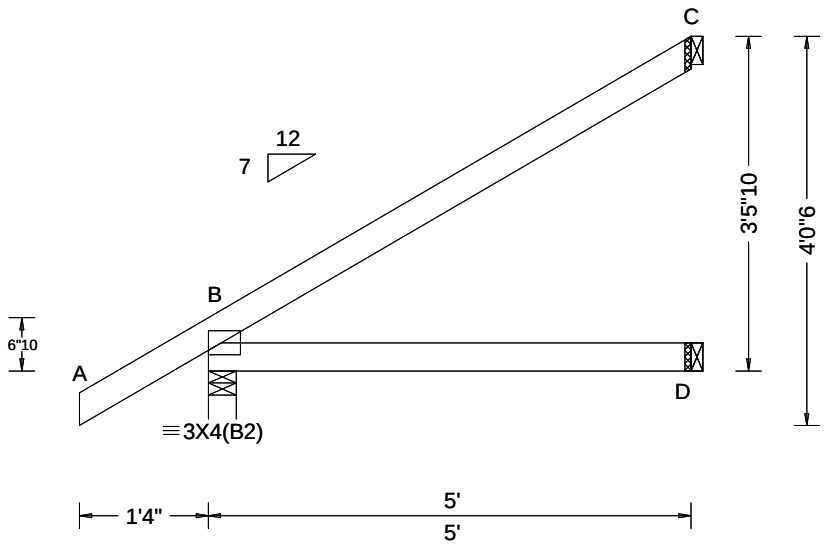
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315758 JACK FROM: CDM	Ply: 1 Qty: 12	**Job Number:** 20-4228 Roling PLan **Truss Label:** J02	Cust: R 215 JRef:1WV32150001 T45 DrwNo: 129.20.0936.00183 / YK 05/08/2020



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): 0.007 D - -
Creep Factor: 2.0
Max TC CSI: 0.367
Max BC CSI: 0.277
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

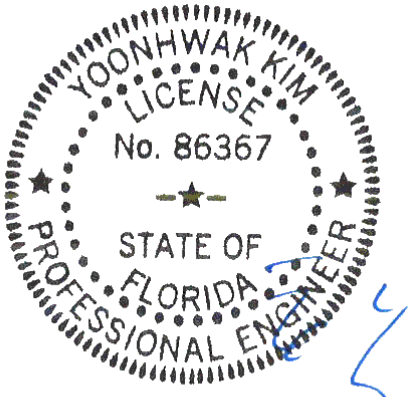
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	315	/-	/-	/222	/33	/105
D	95	/-	/-	/65	/-	/-
C	138	/-	/-	/70	/60	/-

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.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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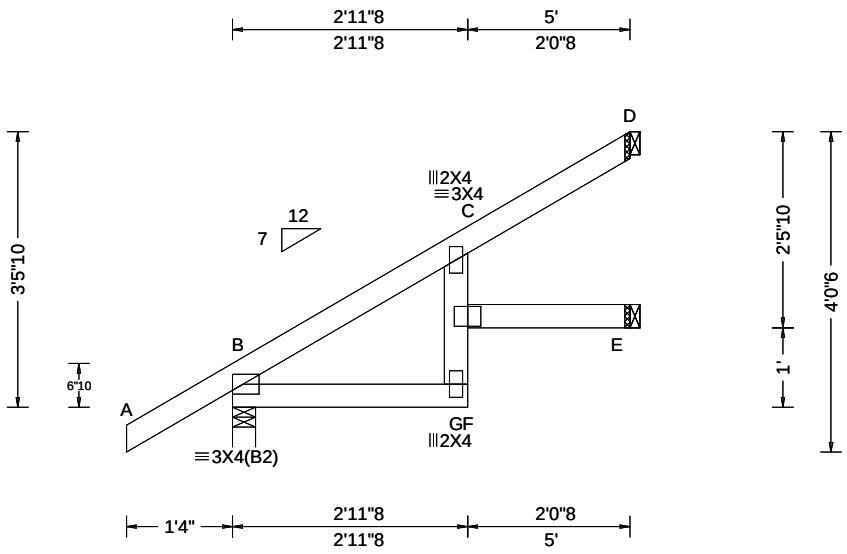
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315759 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4228 Roling PLan **Truss Label:** J02A		Cust: R 215 JRef:1WV32150001 T38 DrwNo: 129.20.0936.01263 / YK 05/08/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 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	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	PP Deflection in loc L/defl L/# VERT(LL): 0.053 F 999 240 VERT(CL): 0.107 F 555 180 HORZ(LL): 0.035 C - - HORZ(TL): 0.069 C - - Creep Factor: 2.0 Max TC CSI: 0.405 Max BC CSI: 0.104 Max Web CSI: 0.129 VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	315	/-	/-	/222	/33	/105
E	56	/-	/-	/40	/4	/-
D	151	/-	/-	/93	/53	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 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;

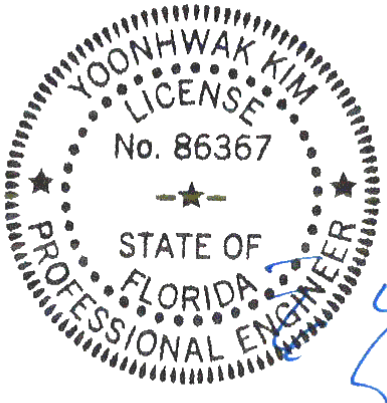
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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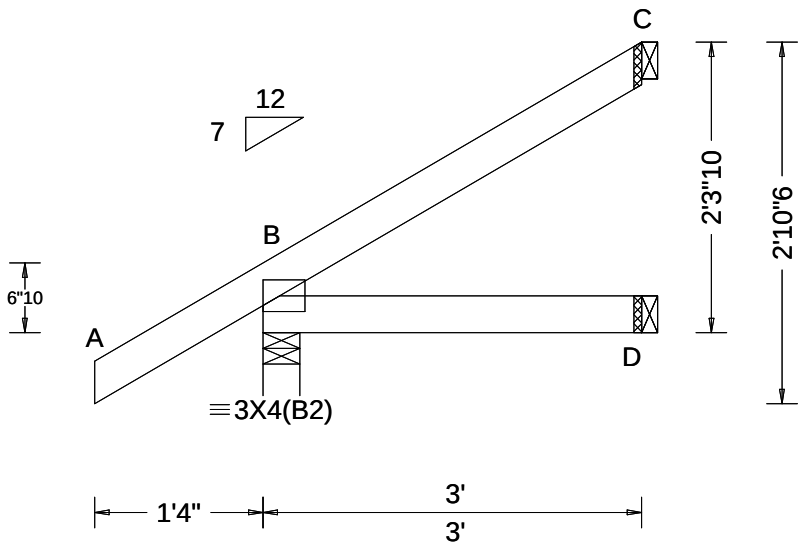
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315760 JACK FROM: CDM	Ply: 1 Qty: 12	**Job Number:** 20-4228 Roling PLan **Truss Label:** J03	Cust: R 215 JRef:1WV32150001 T22 DrwNo: 129.20.0936.02233 / YK 05/08/2020	



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: 0.142
Max BC CSI: 0.092
Max Web CSI: 0.000

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

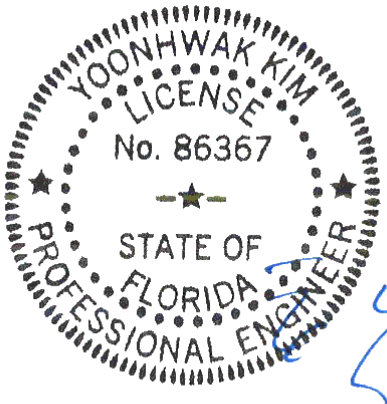
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	241	/-	/-	/175	/31	/71
D	55	/-	/-	/39	/-	/-
C	72	/-	/-	/32	/34	/-

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.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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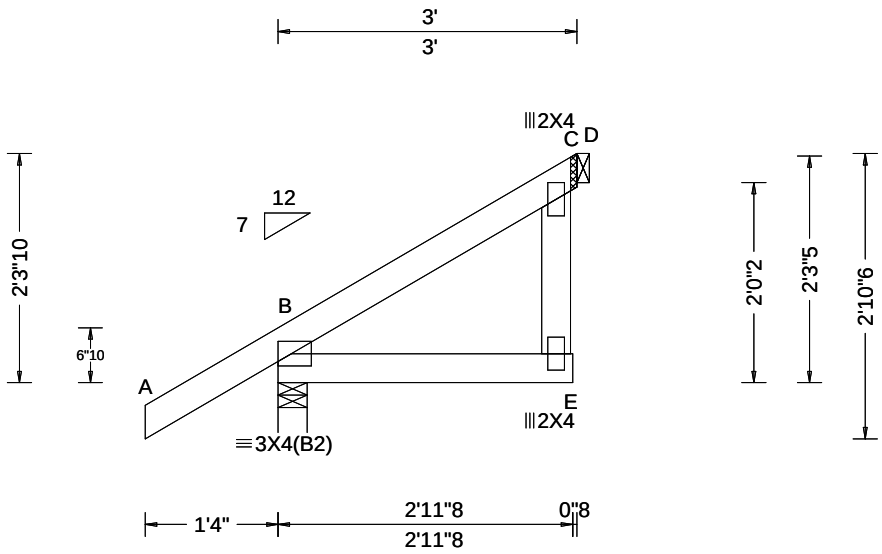
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315761 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4228 Roling PLan **Truss Label:** J03A	Cust: R 215 JRef:1WV32150001 T23 DrwNo: 129.20.0936.03217 / YK 05/08/2020



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): 0.000	E	999	240
VERT(CL): 0.001	E	999	180
HORZ(LL): -0.001	C	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.085
Max Web CSI: 0.034

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

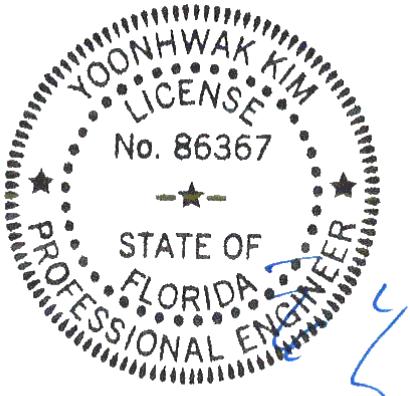
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	241	/-	/-	/175	/31	/71
C	98	/-	/-	/66	/31	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
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;
Webs: 2x4 SP #3;

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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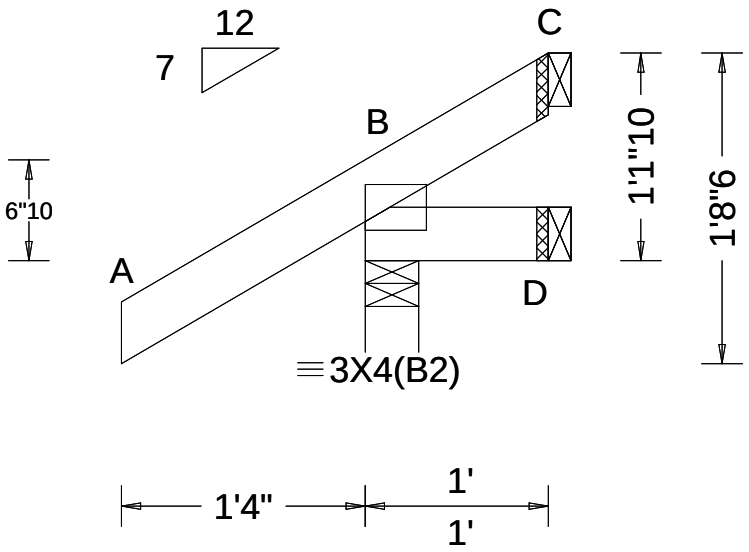
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315762 JACK FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 20-4228 Roling PLan **Truss Label:** J04	Cust: R 215 JRef:1WV32150001 T49 DrwNo: 129.20.0936.05060 / YK 05/08/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 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	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	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.022 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	206	/-	/-	/163	/45	/38
D	13	/-2	/-	/14	/6	/-
C	-	/-30	/-	/22	/36	/-

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;

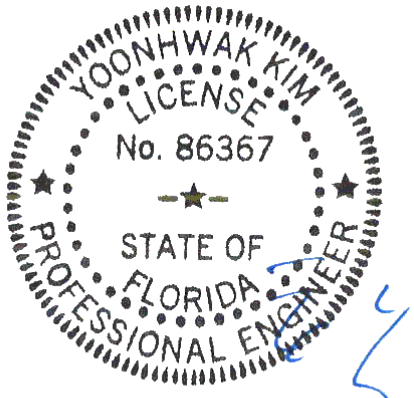
Wind

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

Additional Notes

Refer to General Notes for additional information

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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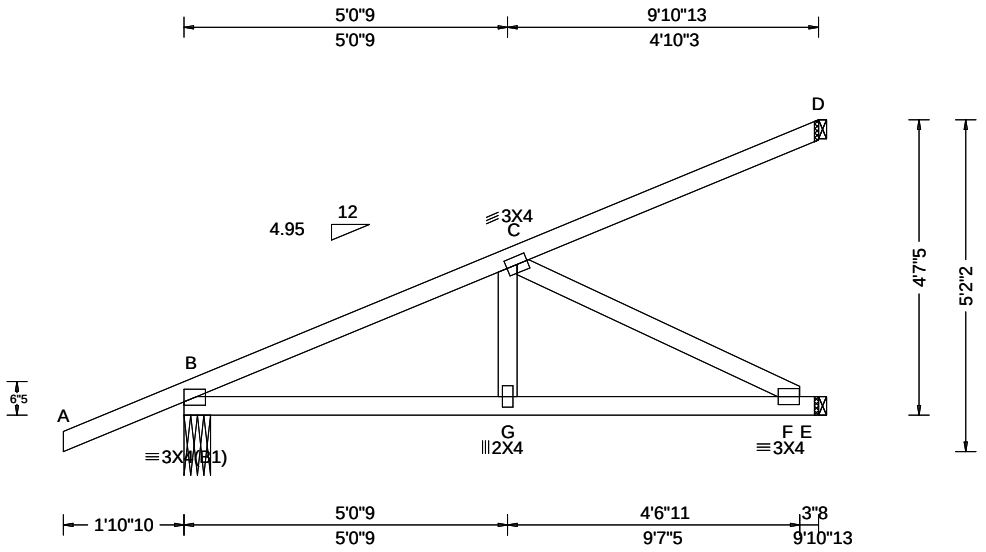
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315763 HIP_ FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4228 Roling PLan **Truss Label:** J05HJ	Cust: R 215 JRef:1WV32150001 T6 DrwNo: 129.20.0936.12747 / YK 05/08/2020



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
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: 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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.025	G	999	240
VERT(CL): 0.050	G	999	180
HORZ(LL): -0.007	D	-	-
HORZ(TL): 0.015	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.532
Max Web CSI: 0.336

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	442	/-	/-	/-	/87	/-
E	366	/-	/-	/-	/5	/-
D	267	/-	/-	/-	/98	/-

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#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	104	-641

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	567	-89	G - F	562	-92

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - F	104	-635

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

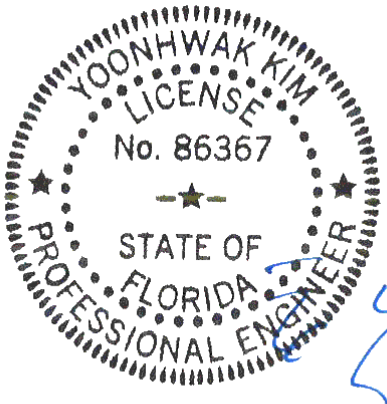
Loading
Hipjack supports 7-0-0 setback jacks with no webs.

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-5.

Provide (3) 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
05/08/2020

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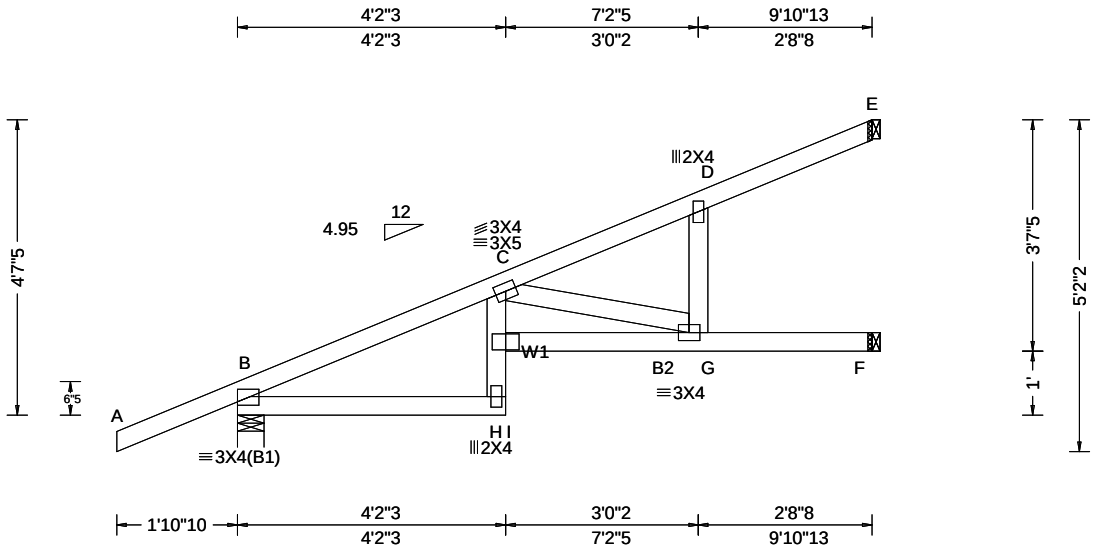
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315764 HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** J05AHJ	Cust: R 215 JRef:1WV32150001 T9 DrwNo: 129.20.0936.16643 / YK 05/08/2020



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
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: 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

Code / Misc Criteria
Bldg Code: FBC 2017 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): 0.217	G	541	240
VERT(CL): 0.442	G	266	180
HORZ(LL): 0.092	D	-	-
HORZ(TL): 0.186	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.506
Max BC CSI: 0.676
Max Web CSI: 0.577

VIEW Ver: 19.02.02B.0122.15

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	442	/-	/-	/-	/87	/-
F	279	/-	/-	/-	/17	/-
E	354	/-	/-	/-	/87	/-

Wind reactions based on MWFRS
B Brg Width = 4.9 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#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	102	-602

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	523	-84	H - G	1063	-175

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - G	174	-1060

Lumber
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3; W1 2x4 SP M-31;

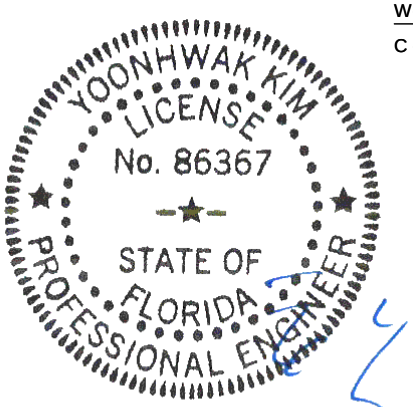
Loading
Hipjack supports 7-0-0 setback jacks with no webs.

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-7-5.

Provide (3) 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
05/08/2020

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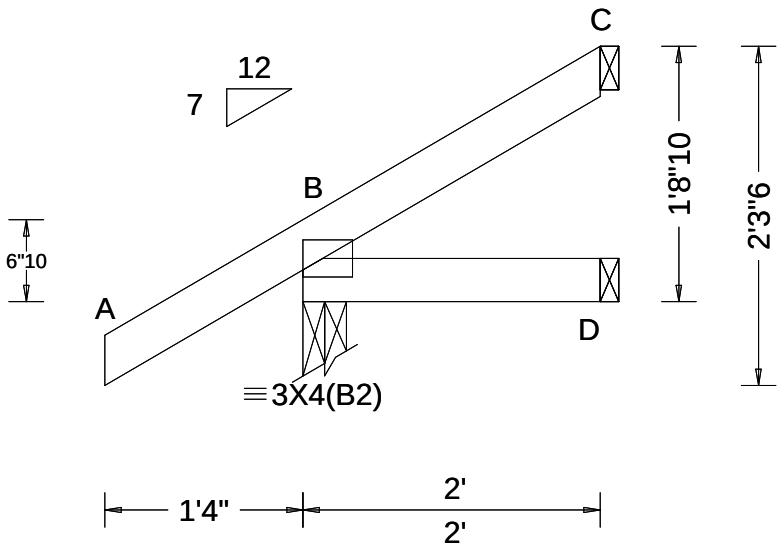
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315765 EJAC FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 20-4228 Roling PLan **Truss Label:** J06	Cust: R 215 JRef:1WV32150001 T13 DrwNo: 129.20.0936.18490 / YK 05/08/2020



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 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	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	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.034 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	211	/-	/-	/158	/33	/55
D	35	/-	/-	/26	/1	/-
C	32	/-	/-	/19	/19	/-

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;

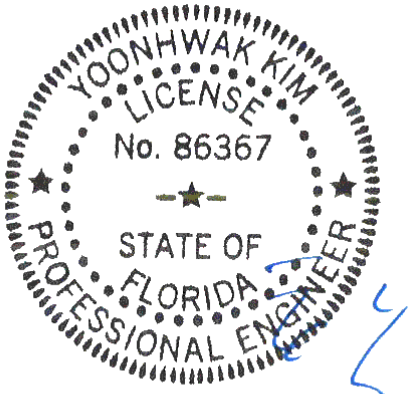
Wind

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

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 1-8-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
05/08/2020

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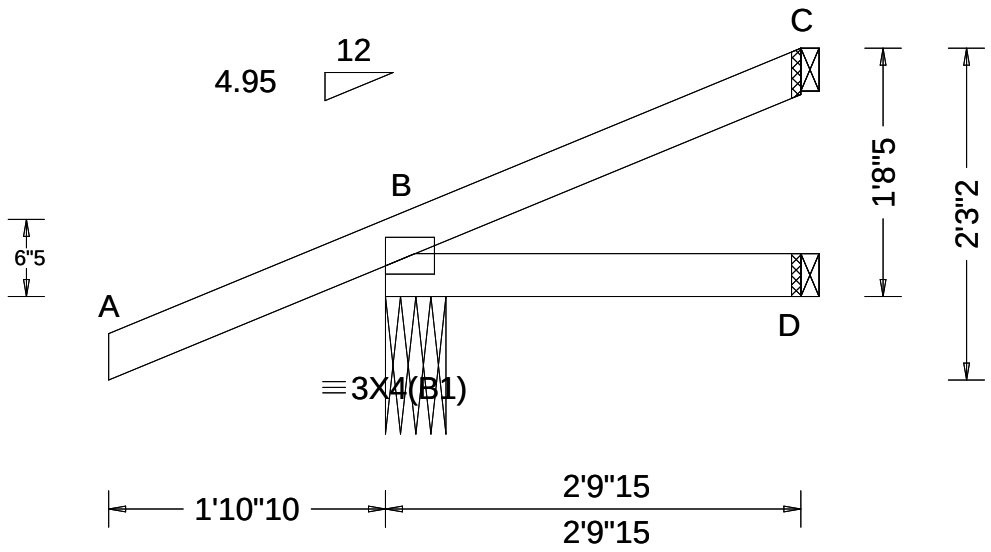
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 315766 HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4228 Roling PLan **Truss Label:** J07HJ	Cust: R 215 JRef:1WV32150001 T27 DrwNo: 129.20.0936.35167 / YK 05/08/2020



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: 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): NA
VERT(CL): NA
HORZ(LL): -0.001 D - -
HORZ(TL): 0.001 D - -
Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.069
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	158	/-	/-	/-	/66	/-
D	48	/-	/-	/-	/5	/-
C	17	/-20	/-	/-	/26	/-

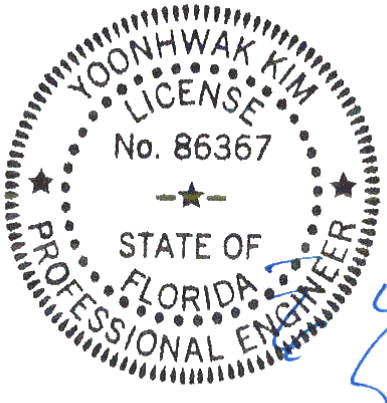
Wind reactions based on MWFRS
B Brg Width = 4.9 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

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

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -1.89 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 2.83
BC: From 0 plf at -1.89 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 2.83
TC: -26 lb Conc. Load at 1.48
BC: 27 lb Conc. Load at 1.48

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-8-5.



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ALPINE AN ITW COMPANY
6750 Forum Drive
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CLR Reinforcing Member Substitution

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

Notes:

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

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

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

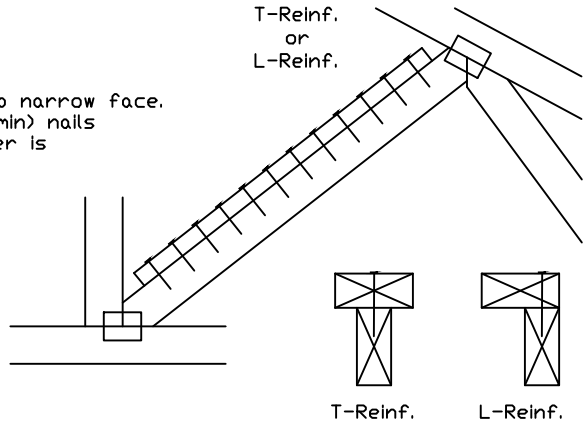
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

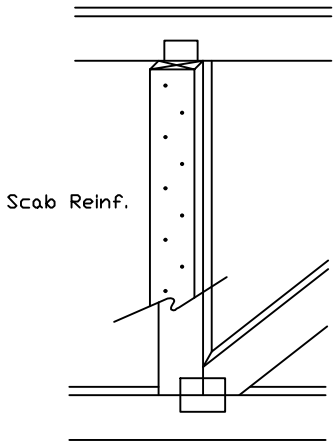
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY

13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

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BC 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