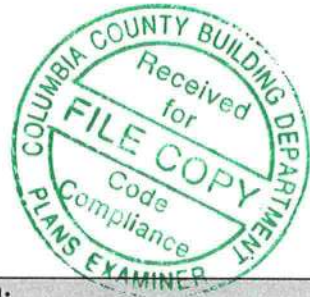




Alpine, an ITW Company  
6750 Forum Drive, Suite 305  
Orlando, FL 32821  
Phone: (800)755-6001  
www.alpineitw.com

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.



<b>Site Information:</b>	<b>Page 1:</b>
Customer: W. B. Howland Company, Inc.	Job Number: 20-4232
Job Description: Sylvester Warren-Lot 4 Emerald Cove	
Address:	

<b>Job Engineering Criteria:</b>			
Design Code: FBC 2017 RES		IntelliVIEW Version: 19.02.02B	
		JRef #: 1WV82150002	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 33 truss drawing(s) and 3 detail(s).

Item	Drawing Number	Truss
1	134.20.1423.17007	A01
3	134.20.1423.20507	A03
5	134.20.1423.23957	A05
7	134.20.1423.29257	A07
9	134.20.1423.43187	A09
11	134.20.1423.47270	B02
13	134.20.1423.50523	B04
15	134.20.1423.54053	B06
17	134.20.1424.05947	C01
19	134.20.1424.08690	C03
21	134.20.1425.02180	D02
23	134.20.1425.30820	G02
25	134.20.1425.37547	J02
27	134.20.1425.51317	J04
29	134.20.1425.57780	J5A
31	134.20.1426.02133	J07
33	134.20.1426.08673	J09
35	A14015ENC101014	

Item	Drawing Number	Truss
2	134.20.1423.19023	A02
4	134.20.1423.21867	A04
6	134.20.1423.27780	A06
8	134.20.1423.31290	A08
10	134.20.1423.45350	B01
12	134.20.1423.48973	B03
14	134.20.1423.52110	B05
16	134.20.1424.02400	B07
18	134.20.1424.07507	C02
20	134.20.1424.11843	D01
22	134.20.1425.08850	G01
24	134.20.1425.32740	J01
26	134.20.1425.39310	J03
28	134.20.1425.53243	J05
30	134.20.1426.00540	J06
32	134.20.1426.04640	J08
34	BRCLBSUB0119	
36	GBLLETIN0118	

## **General Notes**

### **Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:**

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

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

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

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

### **Temporary Lateral Restraint and Bracing:**

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

### **Permanent Lateral Restraint and Bracing:**

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

### **Connector Plate Information:**

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

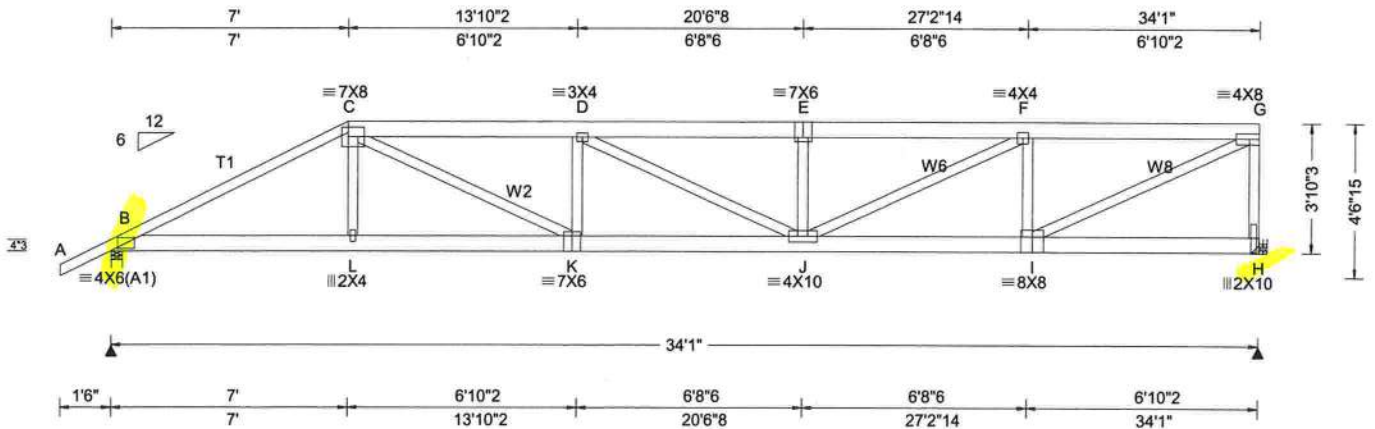
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

**References:**

1. AWC: American Wood Council; 222 Catoclin Circle SE, Suite 201; Leesburg, VA 20175; [www.awc.org](http://www.awc.org).
2. ICC: International Code Council; [www.iccsafe.org](http://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](http://www.alpineitw.com).
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; [www.tpinst.org](http://www.tpinst.org).
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcindustry.com](http://www.sbcindustry.com).

2 Complete Trusses Required



<b>Loading Criteria (psf)</b> TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.41 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.169 D 999 240 VERT(CL): 0.339 D 999 180 HORZ(LL): 0.036 C - - HORZ(TL): 0.071 C - - Creep Factor: 2.0 Max TC CSI: 0.176 Max BC CSI: 0.296 Max Web CSI: 0.337  VIEW Ver: 19.02.02B.0122.15	<b>Maximum Reactions (lbs)</b>																																		
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="2">Gravity</th> <th colspan="2">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rl</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>3225</td> <td>-</td> <td>-</td> <td>685</td> </tr> <tr> <td>H</td> <td>3403</td> <td>-</td> <td>-</td> <td>1717</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>685 - 3229</td> <td>E - F</td> <td>877 - 4174</td> </tr> <tr> <td>C - D</td> <td>886 - 4208</td> <td>F - G</td> <td>588 - 2803</td> </tr> <tr> <td>D - E</td> <td>877 - 4174</td> <td></td> <td></td> </tr> </tbody> </table>				Loc	Gravity		Non-Gravity		R+	/R-	/Rh	/Rl	B	3225	-	-	685	H	3403	-	-	1717	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	685 - 3229	E - F	877 - 4174	C - D	886 - 4208	F - G	588 - 2803
Loc	Gravity		Non-Gravity																																			
	R+	/R-	/Rh	/Rl																																		
B	3225	-	-	685																																		
H	3403	-	-	1717																																		
Chords	Tens.Comp.	Chords	Tens. Comp.																																			
B - C	685 - 3229	E - F	877 - 4174																																			
C - D	886 - 4208	F - G	588 - 2803																																			
D - E	877 - 4174																																					

**Lumber**  
 Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31;  
 Bot chord: 2x6 SP 2400f-2.0E;  
 Webs: 2x4 SP #3; W2,W6 2x4 SP #2;  
 W8 2x4 SP M-31;

**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.

**Wind**  
 Wind loads and reactions based on MWFRS.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

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

**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	2859 - 600	K - J	4244 - 899
L - K	2876 - 600	J - I	2901 - 616

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
C - L	400 - 22	J - F	1433 - 294
C - K	1494 - 320	F - I	320 - 1142
K - D	164 - 430	I - G	3132 - 658
E - J	143 - 376	G - H	364 - 1595

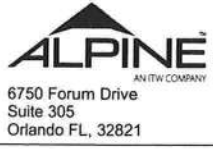


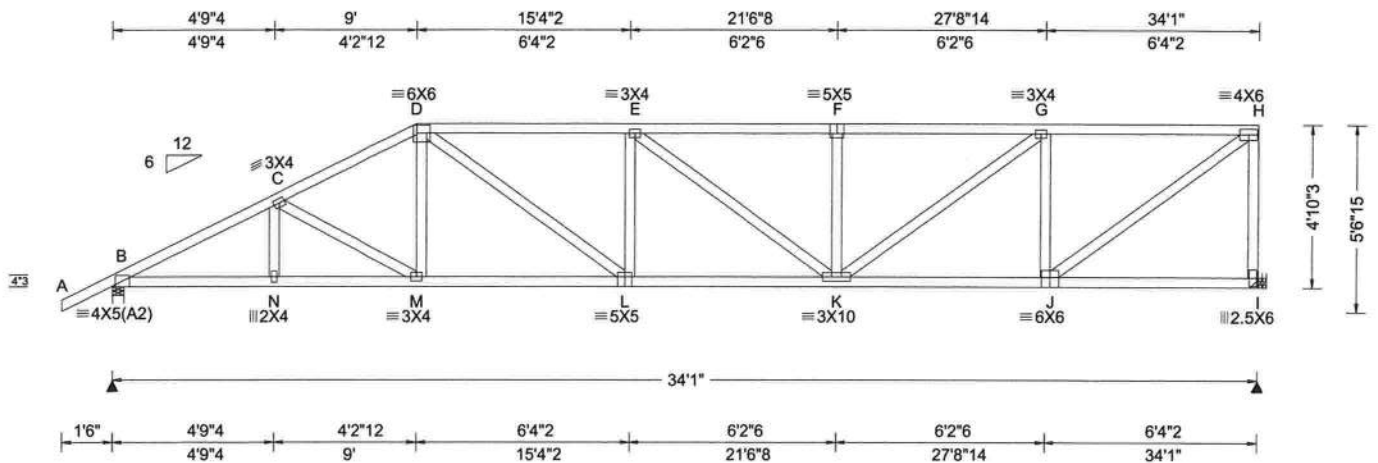
FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.166 E 999 240 VERT(CL): 0.340 E 999 180 HORZ(LL): 0.048 J - - HORZ(TL): 0.097 J - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.731 Max Web CSI: 0.760  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1512</td> <td>-</td> <td>-</td> <td>/903</td> <td>/270</td> <td>/150</td> </tr> <tr> <td>I</td> <td>1395</td> <td>-</td> <td>-</td> <td>/713</td> <td>/268</td> <td>-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1512	-	-	/903	/270	/150	I	1395	-	-	/713	/268	-
				Loc		Gravity			Non-Gravity																						
R+	/R-	/Rh	/Rw		/U	/RL																									
B	1512	-	-	/903	/270	/150																									
I	1395	-	-	/713	/268	-																									
Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.8 I Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>654 - 2609</td> <td>E - F</td> <td>661 - 2462</td> </tr> <tr> <td>C - D</td> <td>630 - 2330</td> <td>F - G</td> <td>661 - 2462</td> </tr> <tr> <td>D - E</td> <td>718 - 2606</td> <td>G - H</td> <td>430 - 1608</td> </tr> </tbody> </table>				Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	654 - 2609	E - F	661 - 2462	C - D	630 - 2330	F - G	661 - 2462	D - E	718 - 2606	G - H	430 - 1608												
Chords	Tens.Comp.	Chords	Tens. Comp.																												
B - C	654 - 2609	E - F	661 - 2462																												
C - D	630 - 2330	F - G	661 - 2462																												
D - E	718 - 2606	G - H	430 - 1608																												

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

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 4-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

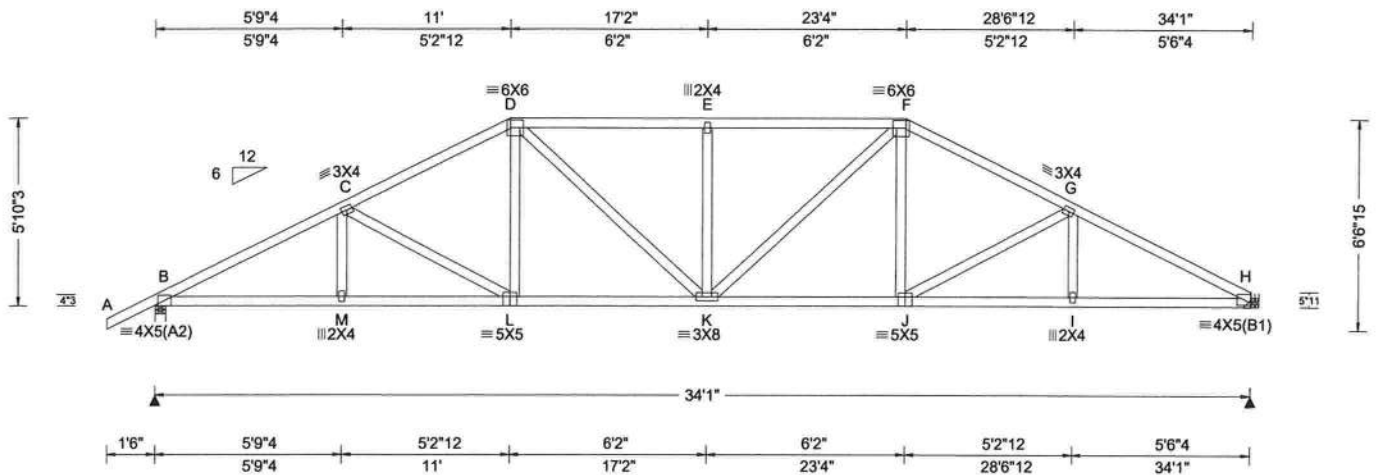
Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	2267 - 694	L - K	2624 - 725
N - M	2266 - 695	K - J	1674 - 451
M - L	2041 - 602		

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
D - L	700 - 166	J - H	1995 - 533
K - G	986 - 262	H - I	395 - 1344
G - J	340 - 1045		

**\*\*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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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"	<b>Wind Criteria</b> 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: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.147 E 999 240 VERT(CL): 0.301 E 999 180 HORZ(LL): 0.060 I - - HORZ(TL): 0.123 I - - Creep Factor: 2.0 Max TC CSI: 0.552 Max BC CSI: 0.945 Max Web CSI: 0.299  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1507</td> <td>-</td> <td>-</td> <td>/893</td> <td>/274</td> <td>/166</td> </tr> <tr> <td>H</td> <td>1400</td> <td>-</td> <td>-</td> <td>/804</td> <td>/246</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.8 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Chords</th> <th colspan="2">Tens.Comp.</th> <th rowspan="2">Chords</th> <th colspan="2">Tens. Comp.</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>660</td> <td>-2586</td> <td>E - F</td> <td>658</td> <td>-2158</td> </tr> <tr> <td>C - D</td> <td>616</td> <td>-2167</td> <td>F - G</td> <td>611</td> <td>-2150</td> </tr> <tr> <td>D - E</td> <td>658</td> <td>-2158</td> <td>G - H</td> <td>649</td> <td>-2513</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1507	-	-	/893	/274	/166	H	1400	-	-	/804	/246	-	Chords	Tens.Comp.		Chords	Tens. Comp.						B - C	660	-2586	E - F	658	-2158	C - D	616	-2167	F - G	611	-2150	D - E	658	-2158	G - H	649	-2513
Loc	Gravity			Non-Gravity																																																							
	R+	/R-	/Rh	/Rw	/U	/RL																																																					
B	1507	-	-	/893	/274	/166																																																					
H	1400	-	-	/804	/246	-																																																					
Chords	Tens.Comp.		Chords	Tens. Comp.																																																							
B - C	660	-2586	E - F	658	-2158																																																						
C - D	616	-2167	F - G	611	-2150																																																						
D - E	658	-2158	G - H	649	-2513																																																						

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

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

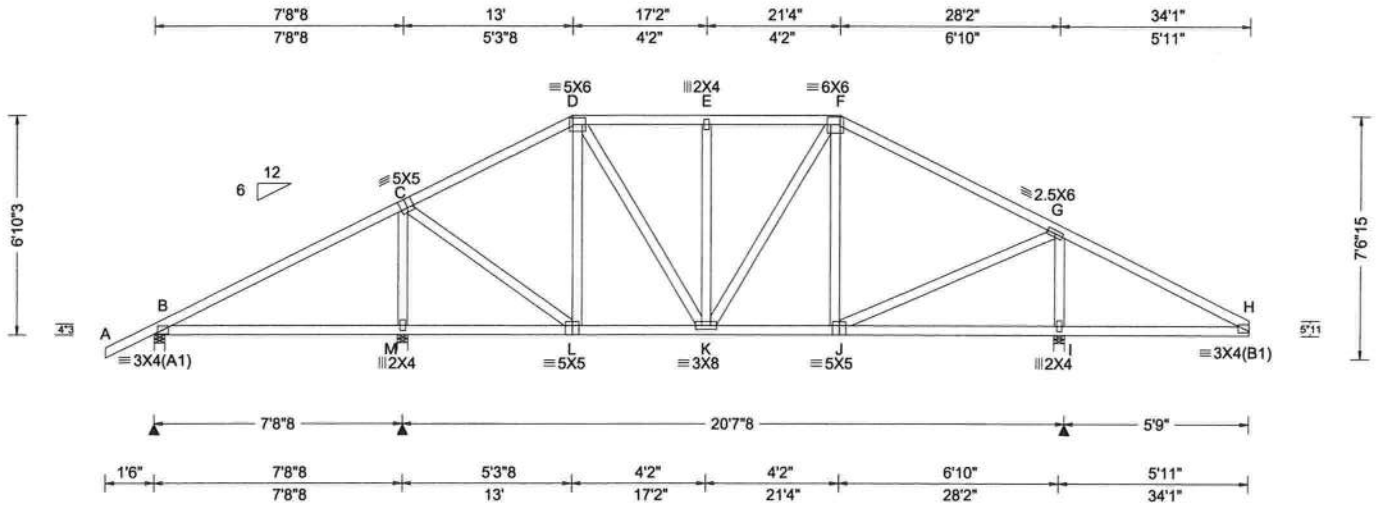
Chords	Tens.Comp.		Chords	Tens. Comp.	
B - M	2241	-536	K - J	1863	-398
M - L	2239	-537	J - I	2166	-513
L - K	1876	-409	I - H	2168	-512

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.		Webs	Tens. Comp.	
C - L	147	-419	E - K	159	-399
D - L	393	-59	K - F	397	-115
D - K	380	-116			

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.018 E 999 240 VERT(CL): 0.040 I 999 180 HORZ(LL): 0.011 M - - HORZ(TL): 0.024 M - - Creep Factor: 2.0 Max TC CSI: 0.794 Max BC CSI: 0.524 Max Web CSI: 0.331  VIEW Ver: 19.02.02B.0122.15	<b>Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>478</td> <td>-</td> <td>-</td> <td>288</td> <td>96</td> <td>192</td> </tr> <tr> <td>M</td> <td>1071</td> <td>-</td> <td>-</td> <td>665</td> <td>177</td> <td>-</td> </tr> <tr> <td>I</td> <td>1407</td> <td>-</td> <td>-</td> <td>986</td> <td>204</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          M Brg Width = 4.0 Min Req = 1.5          I Brg Width = 4.0 Min Req = 1.5          Bearings B, M, &amp; I are a rigid surface.          Members not listed have forces less than 375#</p> <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - D</td> <td>255 -661</td> <td>F - G</td> <td>268 -715</td> </tr> <tr> <td>D - E</td> <td>295 -631</td> <td>G - H</td> <td>510 -373</td> </tr> <tr> <td>E - F</td> <td>295 -631</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Maximum Bot Chord Forces Per Ply (lbs)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>L - K</td> <td>510 -64</td> <td>K - J</td> <td>553 -77</td> </tr> </tbody> </table> <p><b>Maximum Web Forces Per Ply (lbs)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>M - C</td> <td>269 -892</td> <td>J - G</td> <td>868 -265</td> </tr> <tr> <td>C - L</td> <td>503 -86</td> <td>G - I</td> <td>463 -1240</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	478	-	-	288	96	192	M	1071	-	-	665	177	-	I	1407	-	-	986	204	-	Chords	Tens.Comp.	Chords	Tens. Comp.	C - D	255 -661	F - G	268 -715	D - E	295 -631	G - H	510 -373	E - F	295 -631			Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	510 -64	K - J	553 -77	Webs	Tens.Comp.	Webs	Tens. Comp.	M - C	269 -892	J - G	868 -265	C - L	503 -86	G - I	463 -1240
Loc	Gravity			Non-Gravity																																																																						
	R+	/R-	/Rh	/Rw	/U	/RL																																																																				
B	478	-	-	288	96	192																																																																				
M	1071	-	-	665	177	-																																																																				
I	1407	-	-	986	204	-																																																																				
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																							
C - D	255 -661	F - G	268 -715																																																																							
D - E	295 -631	G - H	510 -373																																																																							
E - F	295 -631																																																																									
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																							
L - K	510 -64	K - J	553 -77																																																																							
Webs	Tens.Comp.	Webs	Tens. Comp.																																																																							
M - C	269 -892	J - G	868 -265																																																																							
C - L	503 -86	G - I	463 -1240																																																																							

**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.  
 Right cantilever is exposed to wind  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

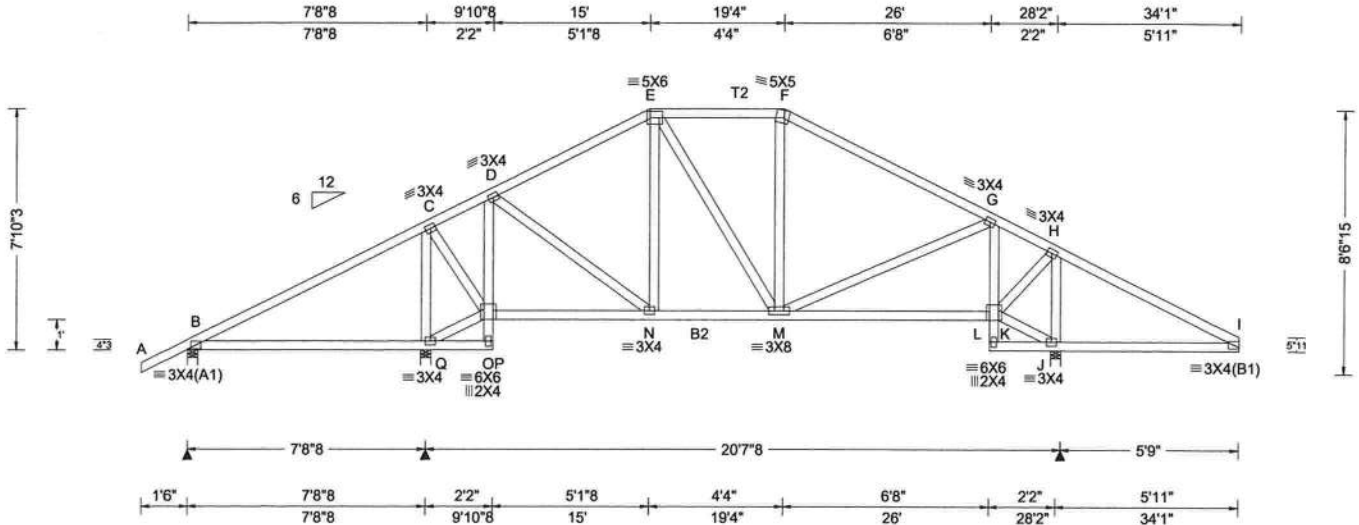
Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 6-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcaindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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"	<b>Wind Criteria</b> 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: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg, Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.015 Q 999 240 VERT(CL): 0.033 J 999 180 HORZ(LL): 0.010 Q - - HORZ(TL): 0.020 Q - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.531 Max Web CSI: 0.320  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>443</td> <td>-</td> <td>-</td> <td>242</td> <td>31</td> <td>218</td> </tr> <tr> <td>Q</td> <td>1137</td> <td>-</td> <td>-</td> <td>732</td> <td>.62</td> <td>-</td> </tr> <tr> <td>J</td> <td>1394</td> <td>-</td> <td>-</td> <td>996</td> <td>170</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          Q Brg Width = 4.0 Min Req = 1.5          J Brg Width = 4.0 Min Req = 1.5          Bearings B, Q, &amp; J are a rigid surface.          Members not listed have forces less than 375#</p> <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>C - D</td> <td>174</td> <td>-445</td> <td>F - G</td> <td>269</td> <td>-747</td> </tr> <tr> <td>D - E</td> <td>264</td> <td>-678</td> <td>H - I</td> <td>521</td> <td>-357</td> </tr> <tr> <td>E - F</td> <td>293</td> <td>-579</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>N - M</td> <td>542</td> <td>-70</td> <td>J - I</td> <td>359</td> <td>-379</td> </tr> <tr> <td>M - K</td> <td>432</td> <td>-216</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <b>Maximum Web Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.</th> <th>Comp.</th> <th>Webs</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>C - Q</td> <td>231</td> <td>-962</td> <td>G - K</td> <td>321</td> <td>-695</td> </tr> <tr> <td>C - O</td> <td>558</td> <td>-68</td> <td>K - J</td> <td>419</td> <td>-460</td> </tr> <tr> <td>O - D</td> <td>102</td> <td>-467</td> <td>K - H</td> <td>735</td> <td>-160</td> </tr> <tr> <td>M - G</td> <td>465</td> <td>-257</td> <td>J - H</td> <td>256</td> <td>-990</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	443	-	-	242	31	218	Q	1137	-	-	732	.62	-	J	1394	-	-	996	170	-	Chords	Tens.	Comp.	Chords	Tens.	Comp.	C - D	174	-445	F - G	269	-747	D - E	264	-678	H - I	521	-357	E - F	293	-579				Chords	Tens.	Comp.	Chords	Tens.	Comp.	N - M	542	-70	J - I	359	-379	M - K	432	-216				Webs	Tens.	Comp.	Webs	Tens.	Comp.	C - Q	231	-962	G - K	321	-695	C - O	558	-68	K - J	419	-460	O - D	102	-467	K - H	735	-160	M - G	465	-257	J - H	256	-990
Loc	Gravity			Non-Gravity																																																																																																										
	R+	/R-	/Rh	/Rw	/U	/RL																																																																																																								
B	443	-	-	242	31	218																																																																																																								
Q	1137	-	-	732	.62	-																																																																																																								
J	1394	-	-	996	170	-																																																																																																								
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																																																																																									
C - D	174	-445	F - G	269	-747																																																																																																									
D - E	264	-678	H - I	521	-357																																																																																																									
E - F	293	-579																																																																																																												
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																																																																																									
N - M	542	-70	J - I	359	-379																																																																																																									
M - K	432	-216																																																																																																												
Webs	Tens.	Comp.	Webs	Tens.	Comp.																																																																																																									
C - Q	231	-962	G - K	321	-695																																																																																																									
C - O	558	-68	K - J	419	-460																																																																																																									
O - D	102	-467	K - H	735	-160																																																																																																									
M - G	465	-257	J - H	256	-990																																																																																																									

**Lumber**  
 Top chord: 2x4 SP M-31; T2 2x4 SP #2;  
 Bot chord: 2x4 SP #2; B2 2x4 SP M-31;  
 Webs: 2x4 SP #3;

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Right cantilever is exposed to wind  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 7-10-3.



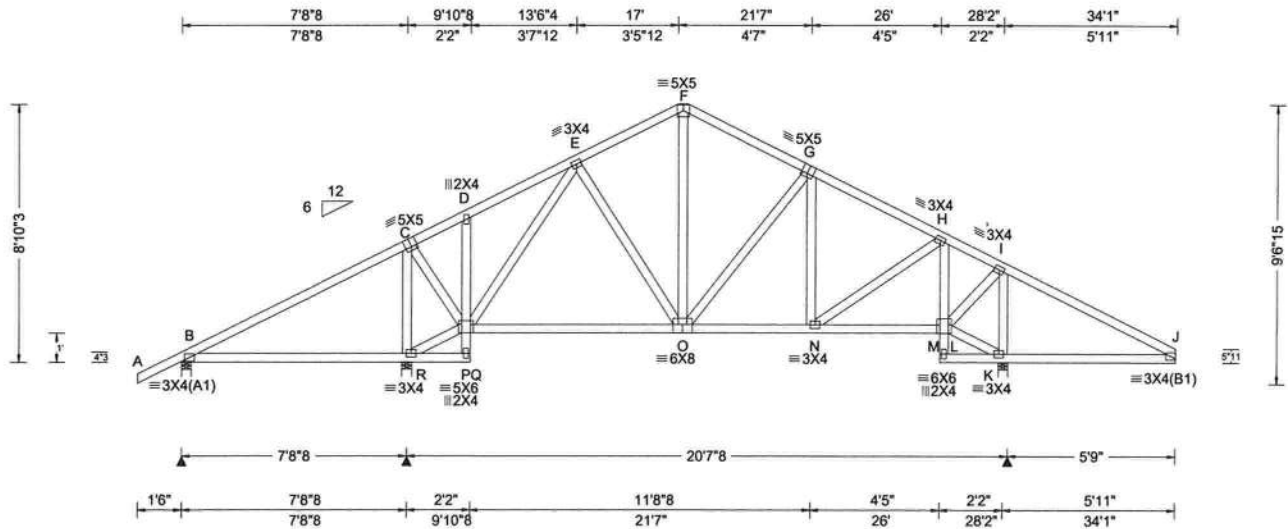
FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcaindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> TCLL: 20.00 TCCL: 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"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.018 R 999 240 VERT(CL): 0.037 R 999 180 HORZ(LL): 0.011 R - - HORZ(TL): 0.023 R - - Creep Factor: 2.0 Max TC CSI: 0.610 Max BC CSI: 0.551 Max Web CSI: 0.393  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>437</td> <td>-</td> <td>-</td> <td>/232</td> <td>/27</td> <td>/245</td> </tr> <tr> <td>R</td> <td>1176</td> <td>-</td> <td>-</td> <td>/744</td> <td>/56</td> <td>-</td> </tr> <tr> <td>K</td> <td>1385</td> <td>-</td> <td>-</td> <td>/990</td> <td>/50</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          R Brg Width = 4.0 Min Req = 1.5          K Brg Width = 4.0 Min Req = 1.5          Bearings B, R, &amp; K are a rigid surface.          Members not listed have forces less than 375#</p> <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>E - F</td> <td>248 -600</td> <td>G - H</td> <td>220 -692</td> </tr> <tr> <td>F - G</td> <td>231 -611</td> <td>I - J</td> <td>517 -354</td> </tr> </tbody> </table> <b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>P - O</td> <td>499 -103</td> <td>N - L</td> <td>451 -236</td> </tr> <tr> <td>O - N</td> <td>572 -64</td> <td>K - J</td> <td>358 -377</td> </tr> </tbody> </table> <b>Maximum Web Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - R</td> <td>208 -957</td> <td>H - L</td> <td>277 -663</td> </tr> <tr> <td>C - P</td> <td>535 -35</td> <td>L - K</td> <td>410 -462</td> </tr> <tr> <td>P - E</td> <td>94 -428</td> <td>L - I</td> <td>653 -82</td> </tr> <tr> <td>N - H</td> <td>538 -249</td> <td>K - I</td> <td>223 -975</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	437	-	-	/232	/27	/245	R	1176	-	-	/744	/56	-	K	1385	-	-	/990	/50	-	Chords	Tens.Comp.	Chords	Tens. Comp.	E - F	248 -600	G - H	220 -692	F - G	231 -611	I - J	517 -354	Chords	Tens.Comp.	Chords	Tens. Comp.	P - O	499 -103	N - L	451 -236	O - N	572 -64	K - J	358 -377	Webs	Tens.Comp.	Webs	Tens. Comp.	C - R	208 -957	H - L	277 -663	C - P	535 -35	L - K	410 -462	P - E	94 -428	L - I	653 -82	N - H	538 -249	K - I	223 -975
Loc	Gravity			Non-Gravity																																																																														
	R+	/R-	/Rh	/Rw	/U	/RL																																																																												
B	437	-	-	/232	/27	/245																																																																												
R	1176	-	-	/744	/56	-																																																																												
K	1385	-	-	/990	/50	-																																																																												
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																															
E - F	248 -600	G - H	220 -692																																																																															
F - G	231 -611	I - J	517 -354																																																																															
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																															
P - O	499 -103	N - L	451 -236																																																																															
O - N	572 -64	K - J	358 -377																																																																															
Webs	Tens.Comp.	Webs	Tens. Comp.																																																																															
C - R	208 -957	H - L	277 -663																																																																															
C - P	535 -35	L - K	410 -462																																																																															
P - E	94 -428	L - I	653 -82																																																																															
N - H	538 -249	K - I	223 -975																																																																															

**Lumber**

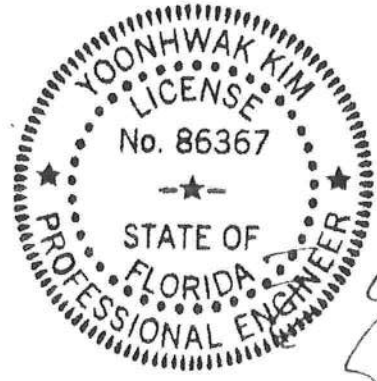
Top chord: 2x4 SP #2;  
 Bot chord: 2x4 SP #2;  
 Webs: 2x4 SP #3;

**Wind**

Wind loads based on MWFRS with additional C&C member design.  
 Right cantilever is exposed to wind  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

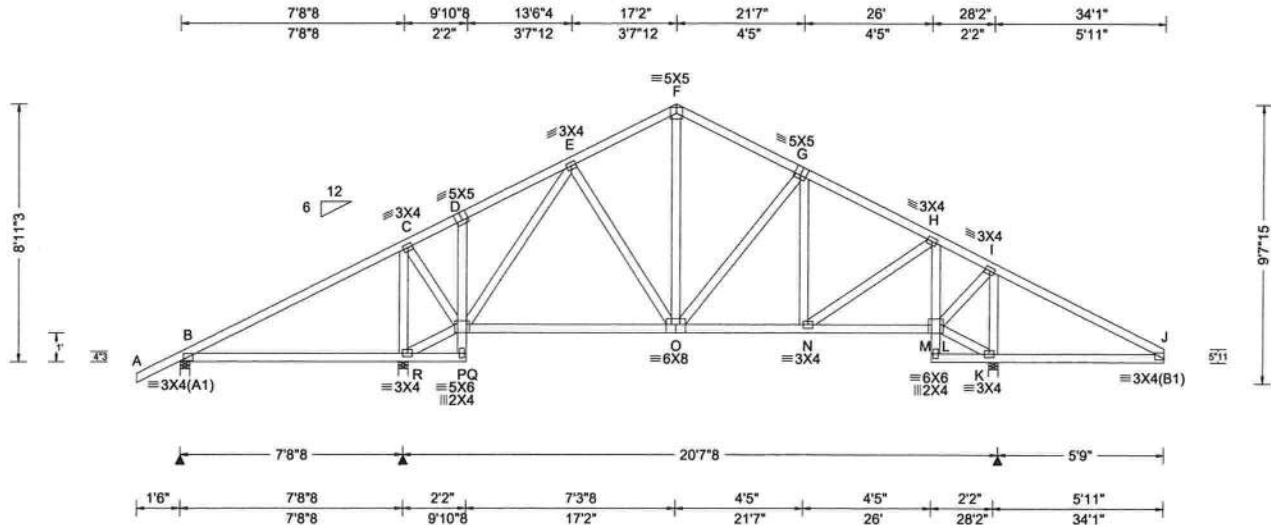
Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 8-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Hght: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.41 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.018 R 999 240 VERT(CL): 0.036 R 999 180 HORZ(LL): 0.011 R - - HORZ(TL): 0.023 R - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.549 Max Web CSI: 0.398  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>435</td> <td>-</td> <td>-</td> <td>230</td> <td>27</td> <td>246</td> </tr> <tr> <td>R</td> <td>1179</td> <td>-</td> <td>-</td> <td>745</td> <td>58</td> <td>-</td> </tr> <tr> <td>K</td> <td>1384</td> <td>-</td> <td>-</td> <td>989</td> <td>51</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 R Brg Width = 4.0 Min Req = 1.5 K Brg Width = 4.0 Min Req = 1.5 Bearings B, R, & K are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>E - F</td> <td>251 -598</td> <td>G - H</td> <td>222 -691</td> </tr> <tr> <td>F - G</td> <td>234 -610</td> <td>I - J</td> <td>517 -354</td> </tr> </tbody> </table> <b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>P - O</td> <td>497 -104</td> <td>N - L</td> <td>449 -236</td> </tr> <tr> <td>O - N</td> <td>571 -65</td> <td>K - J</td> <td>358 -377</td> </tr> </tbody> </table> <b>Maximum Web Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - R</td> <td>212 -960</td> <td>H - L</td> <td>278 -662</td> </tr> <tr> <td>C - P</td> <td>531 -35</td> <td>L - K</td> <td>410 -462</td> </tr> <tr> <td>P - E</td> <td>99 -433</td> <td>L - I</td> <td>652 -84</td> </tr> <tr> <td>N - H</td> <td>537 -250</td> <td>K - I</td> <td>224 -974</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	435	-	-	230	27	246	R	1179	-	-	745	58	-	K	1384	-	-	989	51	-	Chords	Tens.Comp.	Chords	Tens. Comp.	E - F	251 -598	G - H	222 -691	F - G	234 -610	I - J	517 -354	Chords	Tens.Comp.	Chords	Tens. Comp.	P - O	497 -104	N - L	449 -236	O - N	571 -65	K - J	358 -377	Webs	Tens.Comp.	Webs	Tens. Comp.	C - R	212 -960	H - L	278 -662	C - P	531 -35	L - K	410 -462	P - E	99 -433	L - I	652 -84	N - H	537 -250	K - I	224 -974
Loc	Gravity			Non-Gravity																																																																														
	R+	/R-	/Rh	/Rw	/U	/RL																																																																												
B	435	-	-	230	27	246																																																																												
R	1179	-	-	745	58	-																																																																												
K	1384	-	-	989	51	-																																																																												
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																															
E - F	251 -598	G - H	222 -691																																																																															
F - G	234 -610	I - J	517 -354																																																																															
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																															
P - O	497 -104	N - L	449 -236																																																																															
O - N	571 -65	K - J	358 -377																																																																															
Webs	Tens.Comp.	Webs	Tens. Comp.																																																																															
C - R	212 -960	H - L	278 -662																																																																															
C - P	531 -35	L - K	410 -462																																																																															
P - E	99 -433	L - I	652 -84																																																																															
N - H	537 -250	K - I	224 -974																																																																															

**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.  
Right cantilever is exposed to wind  
Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 8-11-3.

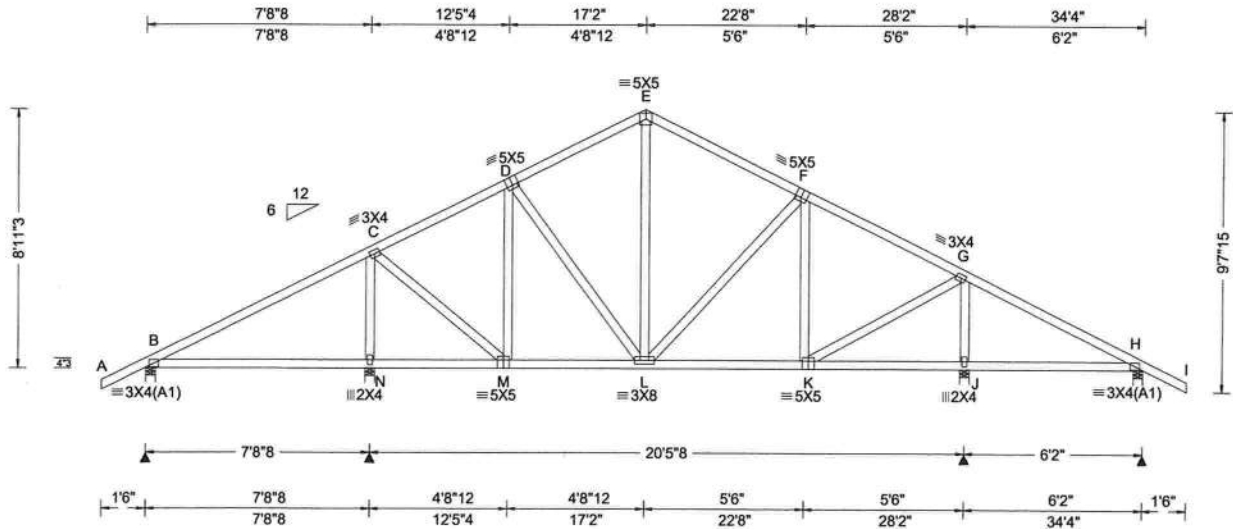


FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





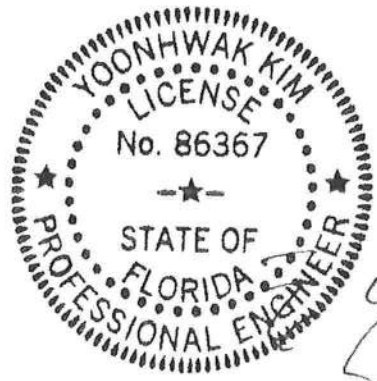


<b>Loading Criteria (psf)</b> TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.43 ft Loc. from endwall: not in 9.00 ft GCp1: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.018 N 999 240 VERT(CL): 0.038 N 999 180 HORZ(LL): 0.011 N - - HORZ(TL): 0.024 N - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.509 Max Web CSI: 0.308  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/ R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>478</td> <td>-</td> <td>-</td> <td>/272</td> <td>/25</td> <td>/263</td> </tr> <tr> <td>N</td> <td>1102</td> <td>-</td> <td>-</td> <td>/703</td> <td>/22</td> <td>-</td> </tr> <tr> <td>J</td> <td>1111</td> <td>-</td> <td>-</td> <td>/663</td> <td>/16</td> <td>-</td> </tr> <tr> <td>H</td> <td>380</td> <td>-</td> <td>-</td> <td>/259</td> <td>/34</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Member</th> <th>Brg Width = 4.0</th> <th>Min Req = 1.5</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Brg Width = 4.0</td> <td>Min Req = 1.5</td> </tr> <tr> <td>N</td> <td>Brg Width = 4.0</td> <td>Min Req = 1.5</td> </tr> <tr> <td>J</td> <td>Brg Width = 4.0</td> <td>Min Req = 1.5</td> </tr> <tr> <td>H</td> <td>Brg Width = 4.0</td> <td>Min Req = 1.5</td> </tr> </tbody> </table> <p>Bearings B, N, J, &amp; H are a rigid surface. Members not listed have forces less than 375#</p> <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - D</td> <td>233 -658</td> <td>E - F</td> <td>278 -662</td> </tr> <tr> <td>D - E</td> <td>272 -644</td> <td>F - G</td> <td>239 -743</td> </tr> </tbody> </table> <b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>M - L</td> <td>520 -83</td> <td>L - K</td> <td>600 -34</td> </tr> </tbody> </table> <b>Maximum Web Forces Per Ply (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>N - C</td> <td>240 -924</td> <td>K - G</td> <td>663 -89</td> </tr> <tr> <td>C - M</td> <td>559 -58</td> <td>G - J</td> <td>241 -968</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/ R-	/ Rh	/ Rw	/ U	/ RL	B	478	-	-	/272	/25	/263	N	1102	-	-	/703	/22	-	J	1111	-	-	/663	/16	-	H	380	-	-	/259	/34	-	Member	Brg Width = 4.0	Min Req = 1.5	B	Brg Width = 4.0	Min Req = 1.5	N	Brg Width = 4.0	Min Req = 1.5	J	Brg Width = 4.0	Min Req = 1.5	H	Brg Width = 4.0	Min Req = 1.5	Chords	Tens.Comp.	Chords	Tens. Comp.	C - D	233 -658	E - F	278 -662	D - E	272 -644	F - G	239 -743	Chords	Tens.Comp.	Chords	Tens. Comp.	M - L	520 -83	L - K	600 -34	Webs	Tens.Comp.	Webs	Tens. Comp.	N - C	240 -924	K - G	663 -89	C - M	559 -58	G - J	241 -968
Loc	Gravity			Non-Gravity																																																																																								
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL																																																																																						
B	478	-	-	/272	/25	/263																																																																																						
N	1102	-	-	/703	/22	-																																																																																						
J	1111	-	-	/663	/16	-																																																																																						
H	380	-	-	/259	/34	-																																																																																						
Member	Brg Width = 4.0	Min Req = 1.5																																																																																										
B	Brg Width = 4.0	Min Req = 1.5																																																																																										
N	Brg Width = 4.0	Min Req = 1.5																																																																																										
J	Brg Width = 4.0	Min Req = 1.5																																																																																										
H	Brg Width = 4.0	Min Req = 1.5																																																																																										
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																																									
C - D	233 -658	E - F	278 -662																																																																																									
D - E	272 -644	F - G	239 -743																																																																																									
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																																									
M - L	520 -83	L - K	600 -34																																																																																									
Webs	Tens.Comp.	Webs	Tens. Comp.																																																																																									
N - C	240 -924	K - G	663 -89																																																																																									
C - M	559 -58	G - J	241 -968																																																																																									

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

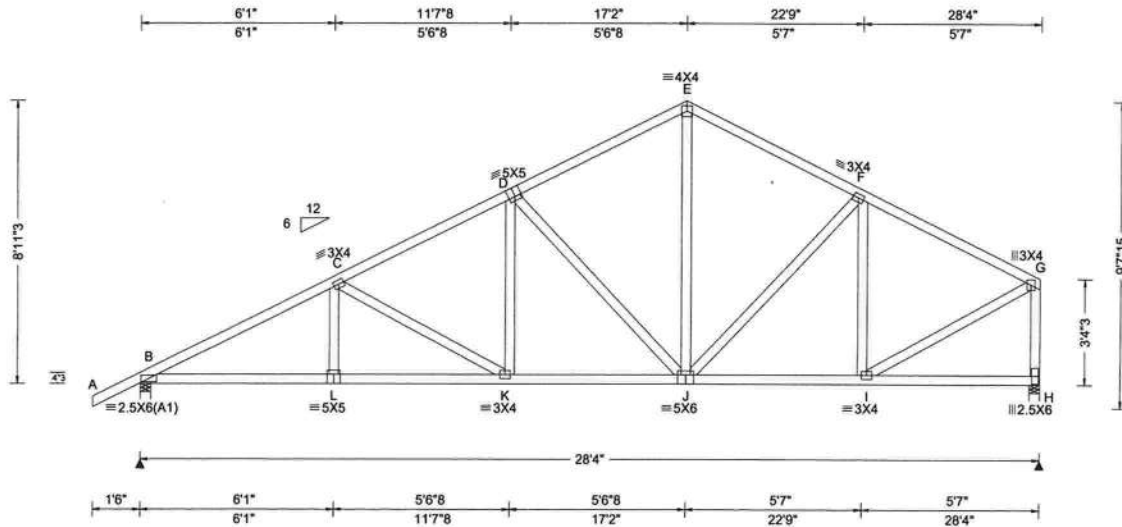
**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 8-11-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



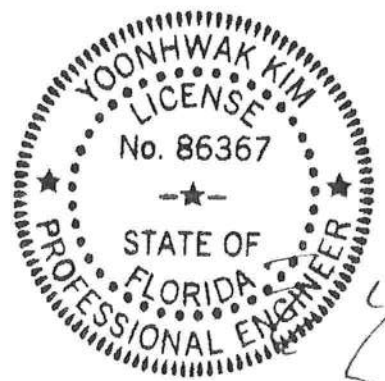


<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.072 K 999 240 VERT(CL): 0.147 K 999 180 HORZ(LL): 0.027 H - - HORZ(TL): 0.054 H - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.539 Max Web CSI: 0.803  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1276</td> <td>-</td> <td>-</td> <td>786</td> <td>/38</td> <td>/213</td> </tr> <tr> <td>H</td> <td>1158</td> <td>-</td> <td>-</td> <td>618</td> <td>/22</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          H Brg Width = 4.0 Min Req = 1.5          Bearings B &amp; H are a rigid surface.          Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>430 -2086</td> <td>E - F</td> <td>357 -1116</td> </tr> <tr> <td>C - D</td> <td>391 -1620</td> <td>F - G</td> <td>286 -1092</td> </tr> <tr> <td>D - E</td> <td>342 -1112</td> <td></td> <td></td> </tr> </tbody> </table> </p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1276	-	-	786	/38	/213	H	1158	-	-	618	/22	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	430 -2086	E - F	357 -1116	C - D	391 -1620	F - G	286 -1092	D - E	342 -1112		
Loc	Gravity			Non-Gravity																																											
	R+	/R-	/Rh	/Rw	/U	/RL																																									
B	1276	-	-	786	/38	/213																																									
H	1158	-	-	618	/22	-																																									
Chords	Tens.Comp.	Chords	Tens. Comp.																																												
B - C	430 -2086	E - F	357 -1116																																												
C - D	391 -1620	F - G	286 -1092																																												
D - E	342 -1112																																														

**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.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 8-11-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

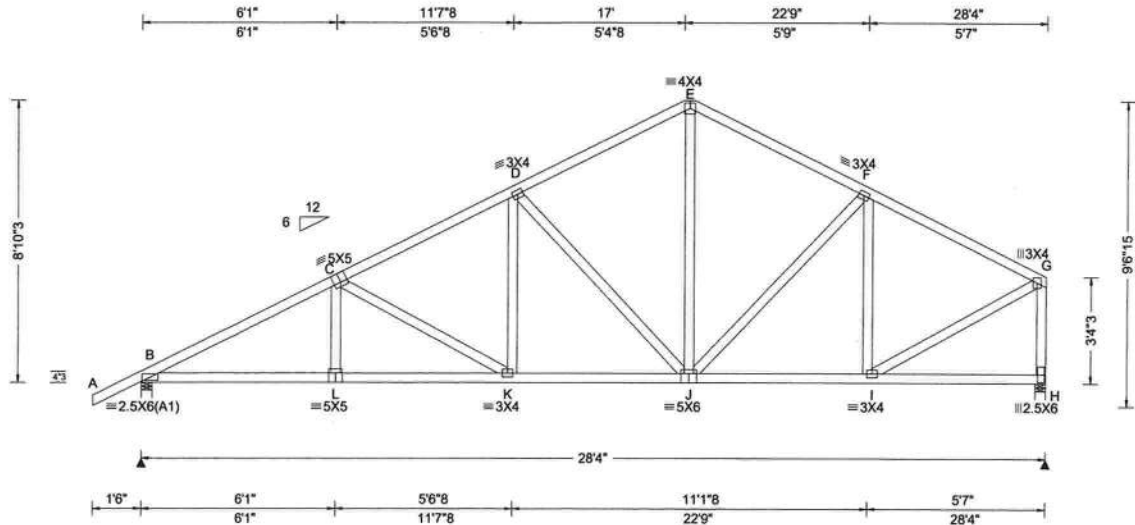
Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	1795 -413	K - J	1367 -293
L - K	1792 -413	J - I	932 -196

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	137 -477	F - I	124 -385
K - D	408 -51	I - G	1036 -212
D - J	200 -651	G - H	297 -1111
E - J	599 -170		



**\*\*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 SBICA) 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.tpinet.org; SBICA: www.sbindustry.com; ICC: www.iccsafe.org



<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.072 K 999 240 VERT(CL): 0.147 K 999 180 HORZ(LL): 0.027 H - - HORZ(TL): 0.054 H - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.539 Max Web CSI: 0.805  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1276</td> <td>-</td> <td>-</td> <td>1787</td> <td>137</td> <td>1212</td> </tr> <tr> <td>H</td> <td>1158</td> <td>-</td> <td>-</td> <td>1619</td> <td>120</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          H Brg Width = 4.0 Min Req = 1.5          Bearings B &amp; H are a rigid surface.          Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Chords</th> <th colspan="2">Tens.Comp.</th> <th rowspan="2">Chords</th> <th colspan="2">Tens. Comp.</th> </tr> <tr> <th>B-C</th> <th>D-E</th> <th>E-F</th> <th>F-G</th> </tr> </thead> <tbody> <tr> <td>B-C</td> <td>425</td> <td>-2085</td> <td>E-F</td> <td>353</td> <td>-1116</td> </tr> <tr> <td>C-D</td> <td>388</td> <td>-1621</td> <td>F-G</td> <td>283</td> <td>-1092</td> </tr> <tr> <td>D-E</td> <td>338</td> <td>-1112</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1276	-	-	1787	137	1212	H	1158	-	-	1619	120	-	Chords	Tens.Comp.		Chords	Tens. Comp.		B-C	D-E	E-F	F-G	B-C	425	-2085	E-F	353	-1116	C-D	388	-1621	F-G	283	-1092	D-E	338	-1112			
Loc	Gravity			Non-Gravity																																																							
	R+	/R-	/Rh	/Rw	/U	/RL																																																					
B	1276	-	-	1787	137	1212																																																					
H	1158	-	-	1619	120	-																																																					
Chords	Tens.Comp.		Chords	Tens. Comp.																																																							
	B-C	D-E		E-F	F-G																																																						
B-C	425	-2085	E-F	353	-1116																																																						
C-D	388	-1621	F-G	283	-1092																																																						
D-E	338	-1112																																																									

**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.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 8-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

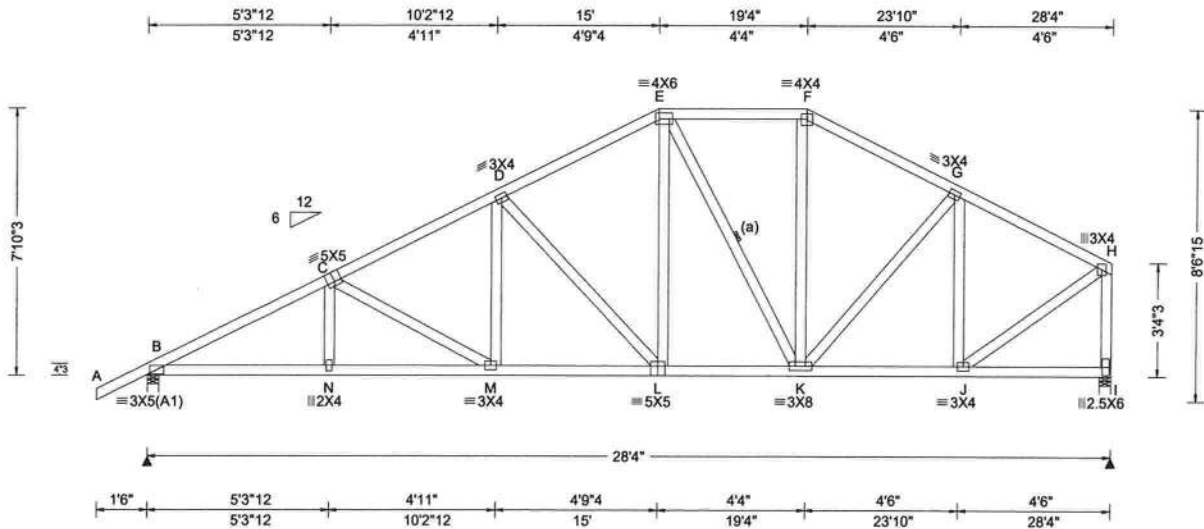
Chords	Tens.Comp.		Chords	Tens. Comp.	
	B-L	L-K		K-J	J-I
B-L	1793	-409	K-J	1368	-291
L-K	1790	-409	J-I	932	-193

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.		Webs	Tens. Comp.	
	C-K	K-D		F-I	I-G
C-K	135	-474	F-I	123	-385
K-D	407	-50	I-G	1037	-208
D-J	203	-653	G-H	294	-1111
E-J	601	-173			

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





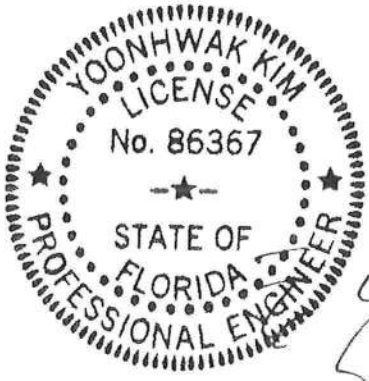
<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDD: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDD: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): 0.073 M 999 240 VERT(CL): 0.148 M 999 180 HORZ(LL): 0.027 I - - HORZ(TL): 0.055 I - - Creep Factor: 2.0 Max TC CSI: 0.312 Max BC CSI: 0.548 Max Web CSI: 0.547  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b>																																
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="2">Gravity</th> <th colspan="2">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1276</td> <td>-</td> <td>789</td> <td>68</td> </tr> <tr> <td>I</td> <td>1158</td> <td>-</td> <td>619</td> <td>25</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS            B Brg Width = 4.0 Min Req = 1.5            I Brg Width = 4.0 Min Req = 1.5            Bearings B &amp; I are a rigid surface.            Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>476 - 2109</td> <td>E - F</td> <td>359 - 959</td> </tr> <tr> <td>C - D</td> <td>450 - 1725</td> <td>F - G</td> <td>378 - 1135</td> </tr> <tr> <td>D - E</td> <td>406 - 1289</td> <td>G - H</td> <td>283 - 993</td> </tr> </tbody> </table>		Loc	Gravity		Non-Gravity		R+	/Rh	/Rw	/U	B	1276	-	789	68	I	1158	-	619	25	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	476 - 2109	E - F	359 - 959	C - D	450 - 1725	F - G	378 - 1135
Loc	Gravity		Non-Gravity																																	
	R+	/Rh	/Rw	/U																																
B	1276	-	789	68																																
I	1158	-	619	25																																
Chords	Tens.Comp.	Chords	Tens. Comp.																																	
B - C	476 - 2109	E - F	359 - 959																																	
C - D	450 - 1725	F - G	378 - 1135																																	
D - E	406 - 1289	G - H	283 - 993																																	

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

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 7-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

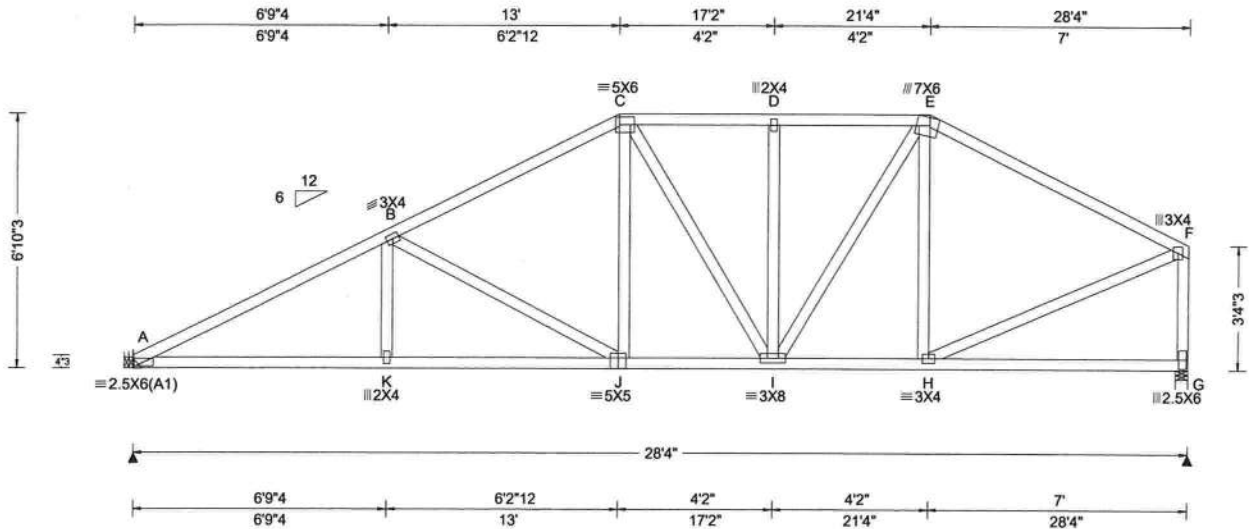
Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	1821 - 460	L - K	1090 - 245
N - M	1819 - 461	K - J	861 - 206
M - L	1471 - 364		

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
C - M	110 - 387	G - J	155 - 483
D - L	177 - 569	J - H	1016 - 239
E - L	509 - 116	H - I	318 - 1121

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





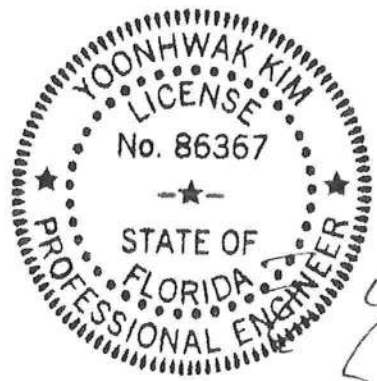
<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.067 K 999 240 VERT(CL): 0.138 K 999 180 HORZ(LL): 0.025 G - - HORZ(TL): 0.052 G - - Creep Factor: 2.0 Max TC CSI: 0.786 Max BC CSI: 0.650 Max Web CSI: 0.609	<b>▲ Maximum Reactions (lbs)</b>																																																																																														
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1172</td> <td>-</td> <td>-</td> <td>/702</td> <td>/199</td> <td>/146</td> </tr> <tr> <td>G</td> <td>1162</td> <td>-</td> <td>-</td> <td>/616</td> <td>/209</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS            A Brg Width = - Min Req = -            G Brg Width = 4.0 Min Req = 1.5            Bearing G is a rigid surface.            Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>508</td> <td>-2099</td> <td>D - E</td> <td>417</td> <td>-1204</td> </tr> <tr> <td>B - C</td> <td>441</td> <td>-1512</td> <td>E - F</td> <td>349</td> <td>-1184</td> </tr> <tr> <td>C - D</td> <td>417</td> <td>-1203</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Maximum Bot Chord Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>A - K</td> <td>1806</td> <td>-480</td> <td>J - I</td> <td>1268</td> <td>-314</td> </tr> <tr> <td>K - J</td> <td>1802</td> <td>-480</td> <td>I - H</td> <td>980</td> <td>-233</td> </tr> </tbody> </table> <p><b>Maximum Web Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Webs</th> <th>Tens.</th> <th>Comp.</th> <th>Webs</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>B - J</td> <td>196</td> <td>-613</td> <td>H - F</td> <td>1041</td> <td>-243</td> </tr> <tr> <td>C - J</td> <td>443</td> <td>-76</td> <td>F - G</td> <td>334</td> <td>-1100</td> </tr> <tr> <td>I - E</td> <td>415</td> <td>-108</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	A	1172	-	-	/702	/199	/146	G	1162	-	-	/616	/209	-	Chords	Tens.	Comp.	Chords	Tens.	Comp.	A - B	508	-2099	D - E	417	-1204	B - C	441	-1512	E - F	349	-1184	C - D	417	-1203				Chords	Tens.	Comp.	Chords	Tens.	Comp.	A - K	1806	-480	J - I	1268	-314	K - J	1802	-480	I - H	980	-233	Webs	Tens.	Comp.	Webs	Tens.	Comp.	B - J	196	-613	H - F	1041	-243	C - J	443	-76	F - G	334	-1100	I - E	415
Loc	Gravity			Non-Gravity																																																																																														
	R+	/R-	/Rh	/Rw	/U	/RL																																																																																												
A	1172	-	-	/702	/199	/146																																																																																												
G	1162	-	-	/616	/209	-																																																																																												
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																																																																													
A - B	508	-2099	D - E	417	-1204																																																																																													
B - C	441	-1512	E - F	349	-1184																																																																																													
C - D	417	-1203																																																																																																
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																																																																													
A - K	1806	-480	J - I	1268	-314																																																																																													
K - J	1802	-480	I - H	980	-233																																																																																													
Webs	Tens.	Comp.	Webs	Tens.	Comp.																																																																																													
B - J	196	-613	H - F	1041	-243																																																																																													
C - J	443	-76	F - G	334	-1100																																																																																													
I - E	415	-108																																																																																																
<b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE				VIEW Ver: 19.02.02B.0122.15																																																																																														

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

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

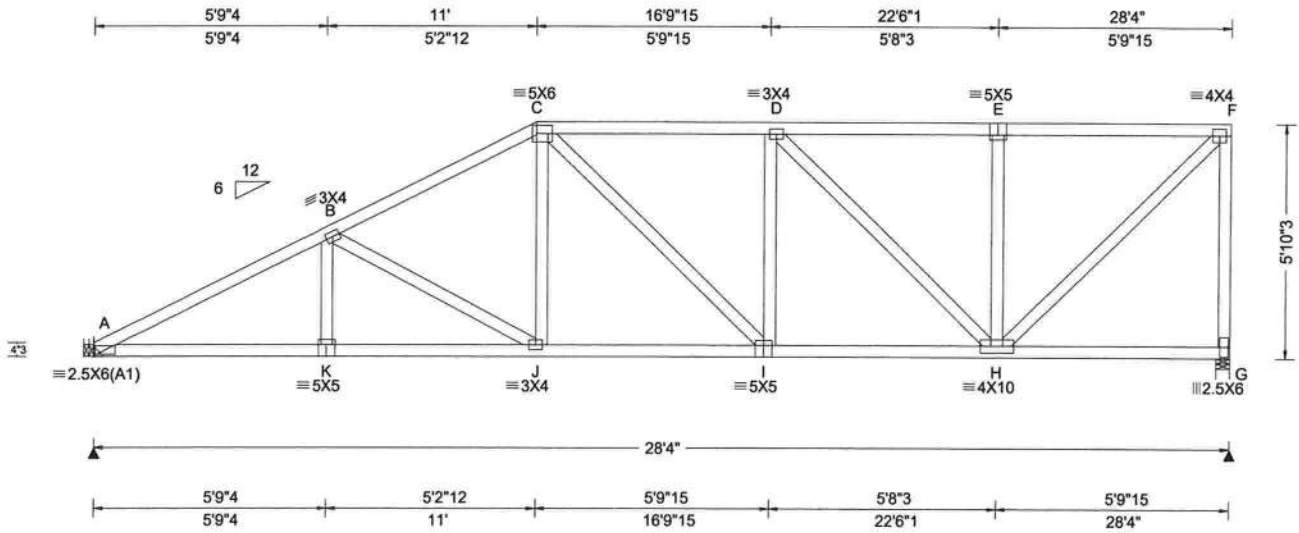
**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 6-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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





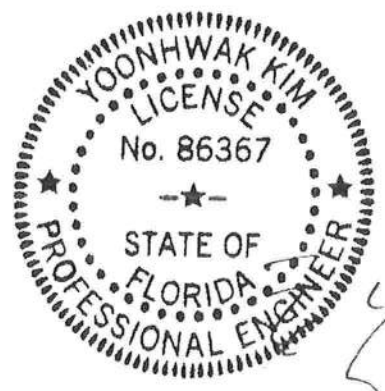
<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.076 J 999 240 VERT(CL): 0.156 J 999 180 HORZ(LL): 0.029 H - - HORZ(TL): 0.059 H - - Creep Factor: 2.0 Max TC CSI: 0.452 Max BC CSI: 0.582 Max Web CSI: 0.743  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL A 1172 /- /- /708 /191 /157 G 1162 /- /- /612 /230 /- Wind reactions based on MWFRS A Brg Width = - Min Req = - G Brg Width = 4.0 Min Req = 1.5 Bearing G is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 494 -2135 D - E 283 -1013 B - C 441 -1675 E - F 283 -1013 C - D 415 -1459
--	--	---	---	---

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

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

**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Uplifts based on an elevation at or above 1000 ft.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

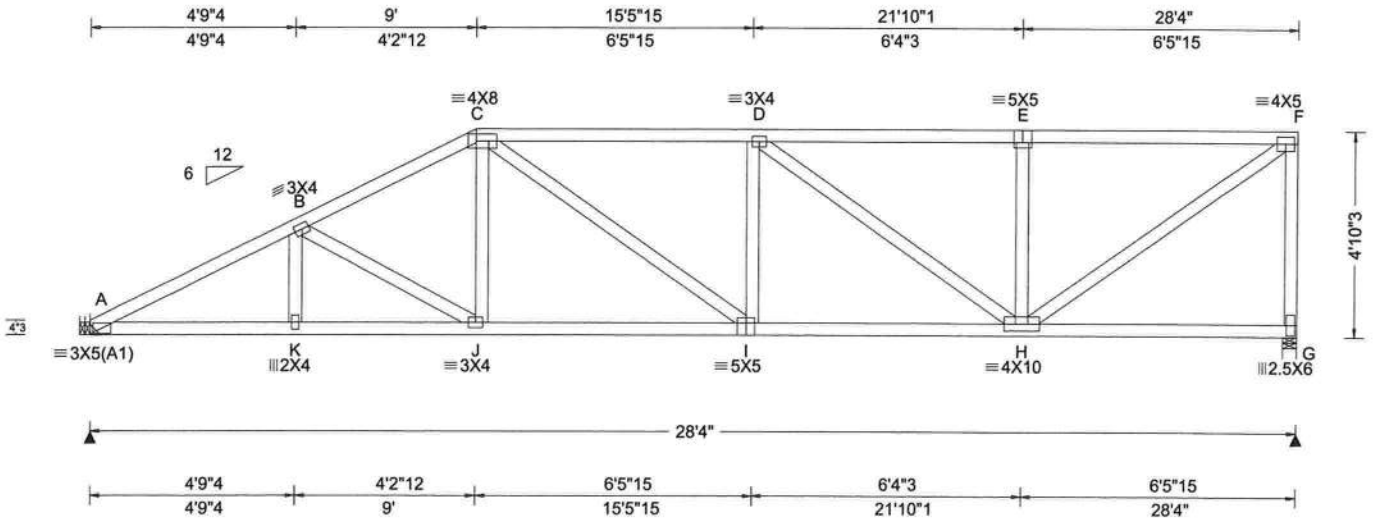
Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1846 -572	J - I	1433 -437
K - J	1843 -572	I - H	1455 -415

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
B - J	160 -472	H - F	1400 -391
C - J	399 -61	E - H	159 -392
D - H	187 -626	F - G	341 -1114

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.092 I 999 240 VERT(CL): 0.189 I 999 180 HORZ(LL): 0.030 H - - HORZ(TL): 0.062 H - - Creep Factor: 2.0 Max TC CSI: 0.686 Max BC CSI: 0.724 Max Web CSI: 0.700  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/ R-</th> <th>/ Rh</th> <th>/ Rw</th> <th>/ U</th> <th>/ RL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1172</td> <td>-</td> <td>-</td> <td>/690</td> <td>/197</td> <td>/128</td> </tr> <tr> <td>G</td> <td>1162</td> <td>-</td> <td>-</td> <td>/601</td> <td>/226</td> <td>-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/ R-	/ Rh	/ Rw	/ U	/ RL	A	1172	-	-	/690	/197	/128	G	1162	-	-	/601	/226	-
				Loc		Gravity			Non-Gravity																						
R+	/ R-	/ Rh	/ Rw		/ U	/ RL																									
A	1172	-	-	/690	/197	/128																									
G	1162	-	-	/601	/226	-																									
<b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> <th>Chords</th> <th>Tens.</th> <th>Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>529</td> <td>-2162</td> <td>D - E</td> <td>367</td> <td>-1345</td> </tr> <tr> <td>B - C</td> <td>494</td> <td>-1837</td> <td>E - F</td> <td>367</td> <td>-1345</td> </tr> <tr> <td>C - D</td> <td>510</td> <td>-1833</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Chords	Tens.	Comp.	Chords	Tens.	Comp.	A - B	529	-2162	D - E	367	-1345	B - C	494	-1837	E - F	367	-1345	C - D	510	-1833							
Chords	Tens.	Comp.	Chords	Tens.	Comp.																										
A - B	529	-2162	D - E	367	-1345																										
B - C	494	-1837	E - F	367	-1345																										
C - D	510	-1833																													

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

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Right end vertical not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 4-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

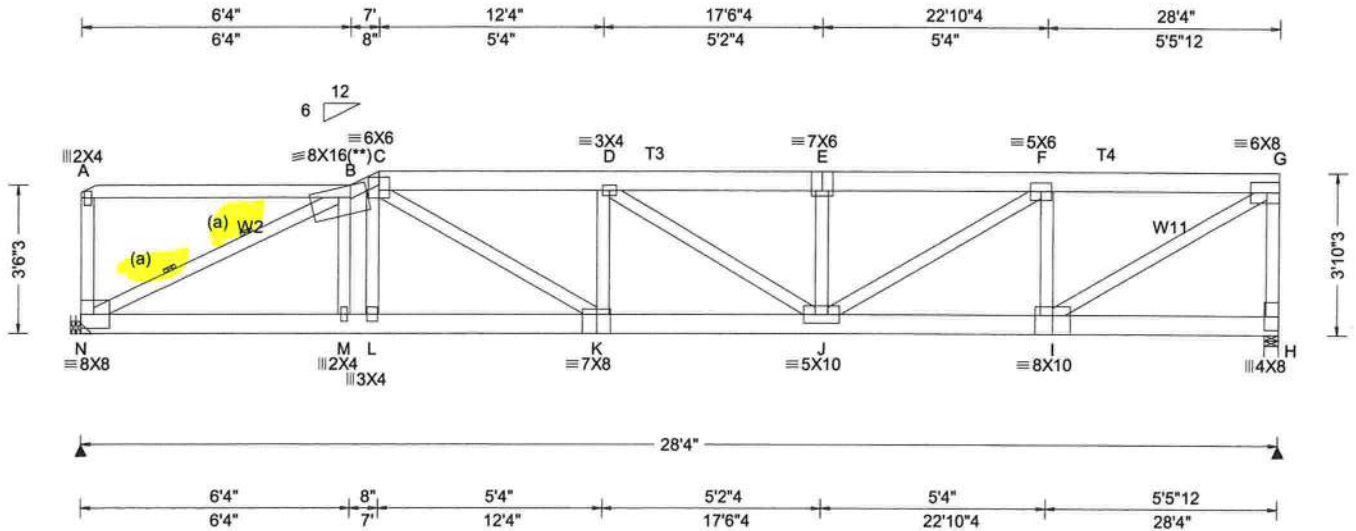
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - K	1877	-582	J - I	1599	-480
K - J	1875	-582	I - H	1836	-513

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - H	183	-609	H - F	1643	-448
E - H	175	-438	F - G	336	-1109

**\*\*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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> TCCL: 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 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.204 D 999 240 VERT(CL): 0.405 D 839 180 HORZ(LL): 0.043 A - - HORZ(TL): 0.085 A - - Creep Factor: 2.0 Max TC CSI: 0.794 Max BC CSI: 0.536 Max Web CSI: 0.937  VIEW Ver: 19.02.02B.0122.15	<b>Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="2">Gravity</th> <th colspan="2">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/Rh</th> <th>/Rw</th> <th>/U /RL</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>2836</td> <td>-</td> <td>-</td> <td>/647 -</td> </tr> <tr> <td>H</td> <td>2827</td> <td>-</td> <td>-</td> <td>/603 -</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          N Brg Width = - Min Req = -          H Brg Width = 4.0 Min Req = 2.3          Bearing H is a rigid surface.          Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>1103 -5051</td> <td>E - F</td> <td>1310 -6103</td> </tr> <tr> <td>C - D</td> <td>1341 -6198</td> <td>F - G</td> <td>840 -3938</td> </tr> <tr> <td>D - E</td> <td>1310 -6103</td> <td></td> <td></td> </tr> </tbody> </table>   <b>Maximum Bot Chord Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>N - M</td> <td>4730 -1040</td> <td>K - J</td> <td>6251 -1361</td> </tr> <tr> <td>M - L</td> <td>4716 -1037</td> <td>J - I</td> <td>4115 -889</td> </tr> <tr> <td>L - K</td> <td>4695 -1035</td> <td></td> <td></td> </tr> </tbody> </table>   <b>Maximum Web Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>N - B</td> <td>1148 -5240</td> <td>E - J</td> <td>272 -715</td> </tr> <tr> <td>M - B</td> <td>406 -56</td> <td>J - F</td> <td>2374 -503</td> </tr> <tr> <td>L - C</td> <td>516 -49</td> <td>F - I</td> <td>568 -2068</td> </tr> <tr> <td>C - K</td> <td>1864 -365</td> <td>I - G</td> <td>4656 -993</td> </tr> <tr> <td>K - D</td> <td>247 -671</td> <td>G - H</td> <td>612 -2710</td> </tr> </tbody> </table> </p>	Loc	Gravity		Non-Gravity		R+	/Rh	/Rw	/U /RL	N	2836	-	-	/647 -	H	2827	-	-	/603 -	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	1103 -5051	E - F	1310 -6103	C - D	1341 -6198	F - G	840 -3938	D - E	1310 -6103			Chords	Tens.Comp.	Chords	Tens. Comp.	N - M	4730 -1040	K - J	6251 -1361	M - L	4716 -1037	J - I	4115 -889	L - K	4695 -1035			Webs	Tens.Comp.	Webs	Tens. Comp.	N - B	1148 -5240	E - J	272 -715	M - B	406 -56	J - F	2374 -503	L - C	516 -49	F - I	568 -2068	C - K	1864 -365	I - G	4656 -993	K - D	247 -671	G - H	612 -2710
Loc	Gravity		Non-Gravity																																																																												
	R+	/Rh	/Rw	/U /RL																																																																											
N	2836	-	-	/647 -																																																																											
H	2827	-	-	/603 -																																																																											
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																												
B - C	1103 -5051	E - F	1310 -6103																																																																												
C - D	1341 -6198	F - G	840 -3938																																																																												
D - E	1310 -6103																																																																														
Chords	Tens.Comp.	Chords	Tens. Comp.																																																																												
N - M	4730 -1040	K - J	6251 -1361																																																																												
M - L	4716 -1037	J - I	4115 -889																																																																												
L - K	4695 -1035																																																																														
Webs	Tens.Comp.	Webs	Tens. Comp.																																																																												
N - B	1148 -5240	E - J	272 -715																																																																												
M - B	406 -56	J - F	2374 -503																																																																												
L - C	516 -49	F - I	568 -2068																																																																												
C - K	1864 -365	I - G	4656 -993																																																																												
K - D	247 -671	G - H	612 -2710																																																																												

**Lumber**  
 Top chord: 2x4 SP #2; T3,T4 2x6 SP 2400F-2.0E;  
 Bot chord: 2x6 SP 2400F-2.0E;  
 Webs: 2x4 SP #3; W2 2x4 SP #2; W11 2x4 SP M-31;

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

**Special Loads**  
 --- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
 TC: From 60 plf at 0.00 to 60 plf at 0.33  
 TC: From 62 plf at 0.33 to 62 plf at 7.00  
 TC: From 31 plf at 7.00 to 31 plf at 28.33  
 BC: From 10 plf at 0.00 to 10 plf at 28.33  
 TC: 187 lb Conc. Load at 7.94, 9.94, 11.94, 13.94  
 15.94, 17.17, 18.40, 20.40, 22.40, 24.40, 26.40  
 BC: 268 lb Conc. Load at 1.94, 3.94, 5.94  
 BC: 129 lb Conc. Load at 7.94, 9.94, 11.94, 13.94  
 15.94, 17.17, 18.40, 20.40, 22.40, 24.40, 26.40

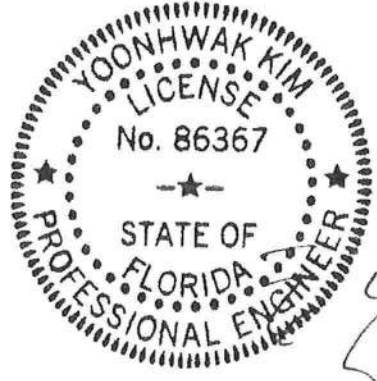
**Plating Notes**  
 (\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

**Purlins**  
 The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

**Wind**  
 Wind loads and reactions based on MWFRS.  
 End verticals not exposed to wind pressure.  
 Uplifts based on an elevation at or above 1000 ft.

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



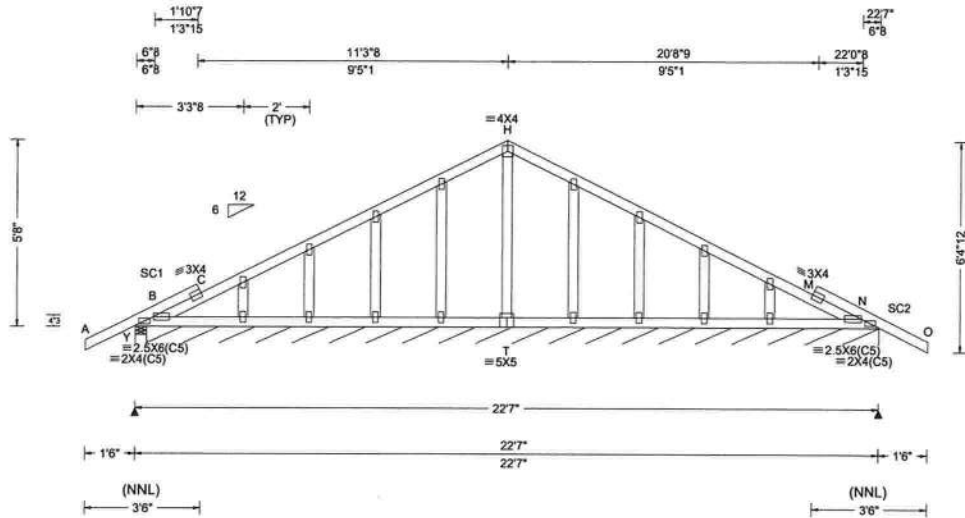
FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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 ANSITPI 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 ANSITPI 1 Sec.2.

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

6750 Forum Drive  
 Suite 305  
 Orlando FL, 32821



<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): 0.003 M 999 240 VERT(CL): 0.008 C 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.468 Max BC CSI: 0.069 Max Web CSI: 0.070  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs), or *PLF</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>532</td> <td>-</td> <td>-</td> <td>/340</td> <td>/81</td> <td>/76</td> </tr> <tr> <td>N*</td> <td>149</td> <td>-</td> <td>-</td> <td>/74</td> <td>-</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS Y Brg Width = 4.0 Min Req = 1.5 N Brg Width = 266 Min Req = - Bearings Y & B are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 404 -189	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	Y	532	-	-	/340	/81	/76	N*	149	-	-	/74	-	-
Loc	Gravity			Non-Gravity																											
	R+	/R-	/Rh	/Rw	/U	/RL																									
Y	532	-	-	/340	/81	/76																									
N*	149	-	-	/74	-	-																									

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

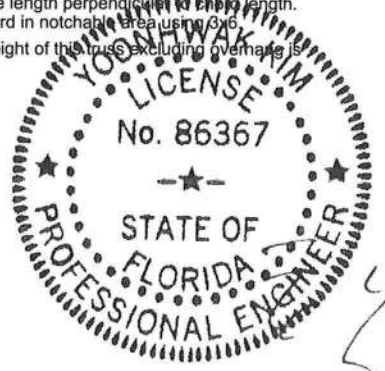
**Plating Notes**  
 All plates are 2X4 except as noted.

**Loading**  
 Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

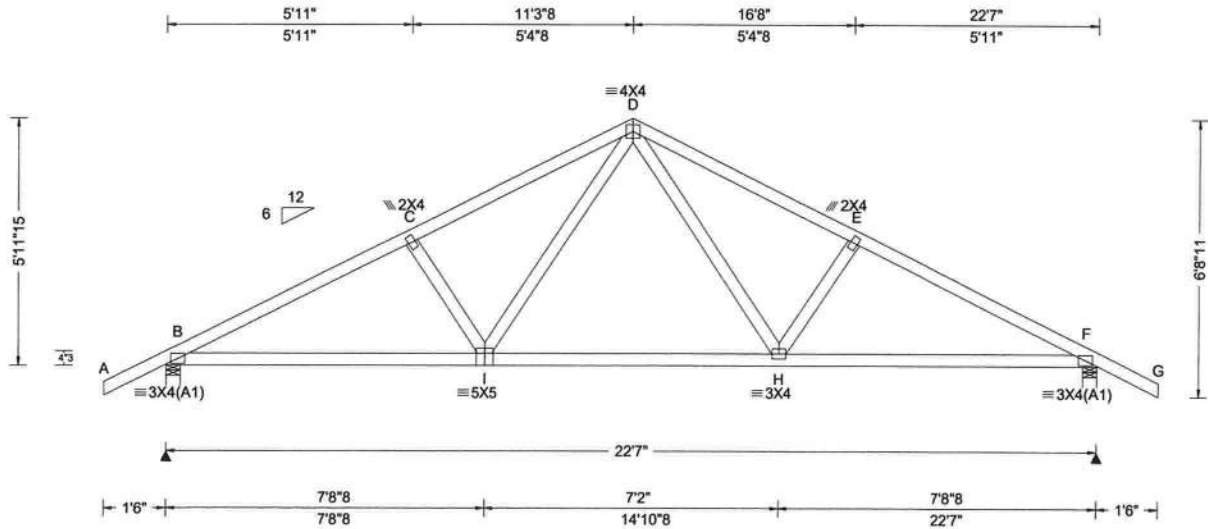
**Additional Notes**  
 Refer to General Notes for additional information  
 See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.  
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.  
 The overall height of this truss excluding overhang is 5-8-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





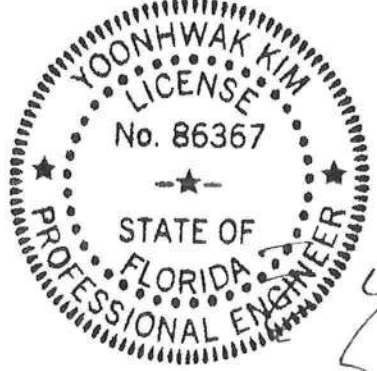
<b>Loading Criteria (psf)</b> TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.059 H 999 240 VERT(CL): 0.115 H 999 180 HORZ(LL): 0.023 H - - HORZ(TL): 0.045 H - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.678 Max Web CSI: 0.207  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b>																																																		
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1073</td> <td>-</td> <td>-</td> <td>620</td> <td>184</td> <td>181</td> </tr> <tr> <td>F</td> <td>1073</td> <td>-</td> <td>-</td> <td>620</td> <td>184</td> <td>-</td> </tr> </tbody> </table>		Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	1073	-	-	620	184	181	F	1073	-	-	620	184	-	Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Chords</th> <th colspan="2">Tens.Comp.</th> <th rowspan="2">Chords</th> <th colspan="2">Tens. Comp.</th> </tr> <tr> <th>B - C</th> <th>C - D</th> <th>D - E</th> <th>E - F</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>678</td> <td>-1658</td> <td>D - E</td> <td>684</td> <td>-1480</td> </tr> <tr> <td>C - D</td> <td>685</td> <td>-1479</td> <td>E - F</td> <td>678</td> <td>-1659</td> </tr> </tbody> </table>				Chords	Tens.Comp.		Chords	Tens. Comp.		B - C	C - D	D - E	E - F	B - C	678	-1658	D - E	684	-1480	C - D	685
Loc	Gravity			Non-Gravity																																																		
	R+	/R-	/Rh	/Rw	/U	/RL																																																
B	1073	-	-	620	184	181																																																
F	1073	-	-	620	184	-																																																
Chords	Tens.Comp.		Chords	Tens. Comp.																																																		
	B - C	C - D		D - E	E - F																																																	
B - C	678	-1658	D - E	684	-1480																																																	
C - D	685	-1479	E - F	678	-1659																																																	

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

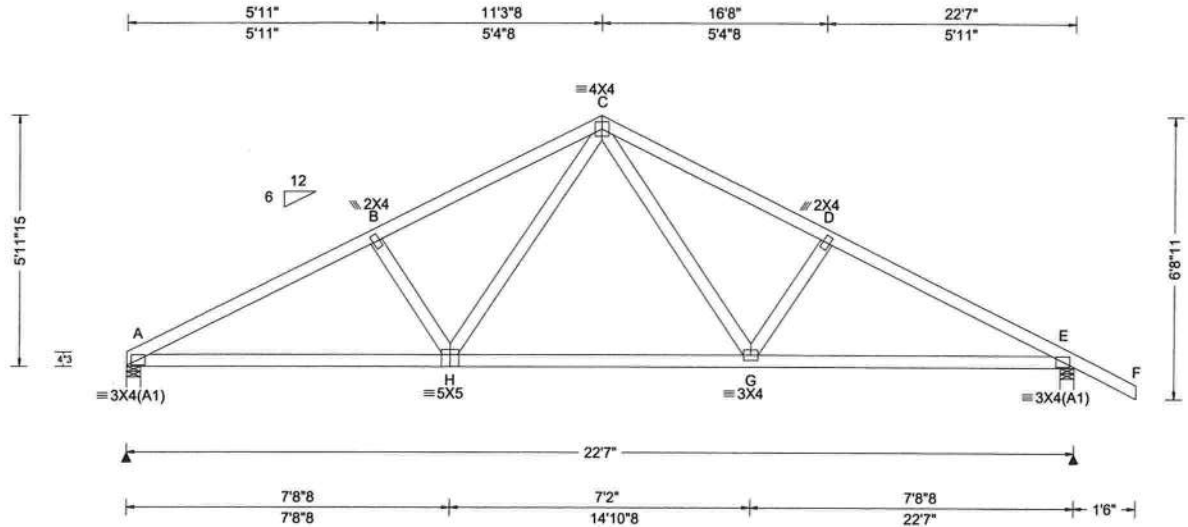
**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 5-11-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



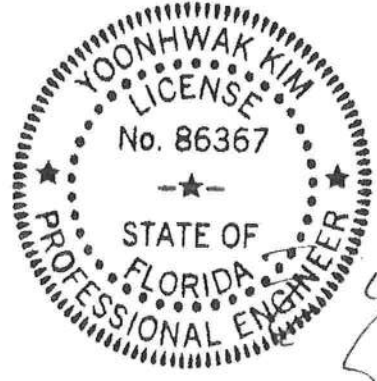


<b>Loading Criteria (psf)</b> TCCL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.059 G 999 240 VERT(CL): 0.114 G 999 180 HORZ(LL): 0.023 G - - HORZ(TL): 0.045 G - - Creep Factor: 2.0 Max TC CSI: 0.329 Max BC CSI: 0.676 Max Web CSI: 0.215  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>969</td> <td>-</td> <td>-</td> <td>/536</td> <td>/14</td> <td>/167</td> </tr> <tr> <td>E</td> <td>1077</td> <td>-</td> <td>-</td> <td>/621</td> <td>/26</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 E Brg Width = 4.0 Min Req = 1.5 Bearings A & E are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>389 - 1683</td> <td>C - D</td> <td>378 - 1488</td> </tr> <tr> <td>B - C</td> <td>402 - 1502</td> <td>D - E</td> <td>365 - 1668</td> </tr> </tbody> </table>						Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	A	969	-	-	/536	/14	/167	E	1077	-	-	/621	/26	-	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	389 - 1683	C - D	378 - 1488	B - C	402 - 1502	D - E	365 - 1668
				Loc	Gravity			Non-Gravity																																								
R+	/R-	/Rh	/Rw		/U	/RL																																										
A	969	-	-	/536	/14	/167																																										
E	1077	-	-	/621	/26	-																																										
Chords	Tens.Comp.	Chords	Tens. Comp.																																													
A - B	389 - 1683	C - D	378 - 1488																																													
B - C	402 - 1502	D - E	365 - 1668																																													
<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;				<b>Maximum Bot Chord Forces Per Ply (lbs)</b> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>A - H</td> <td>1444 - 253</td> <td>G - E</td> <td>1426 - 248</td> </tr> <tr> <td>H - G</td> <td>973 - 107</td> <td></td> <td></td> </tr> </tbody> </table>						Chords	Tens.Comp.	Chords	Tens. Comp.	A - H	1444 - 253	G - E	1426 - 248	H - G	973 - 107																													
Chords	Tens.Comp.	Chords	Tens. Comp.																																													
A - H	1444 - 253	G - E	1426 - 248																																													
H - G	973 - 107																																															

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

**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 5-11-15.



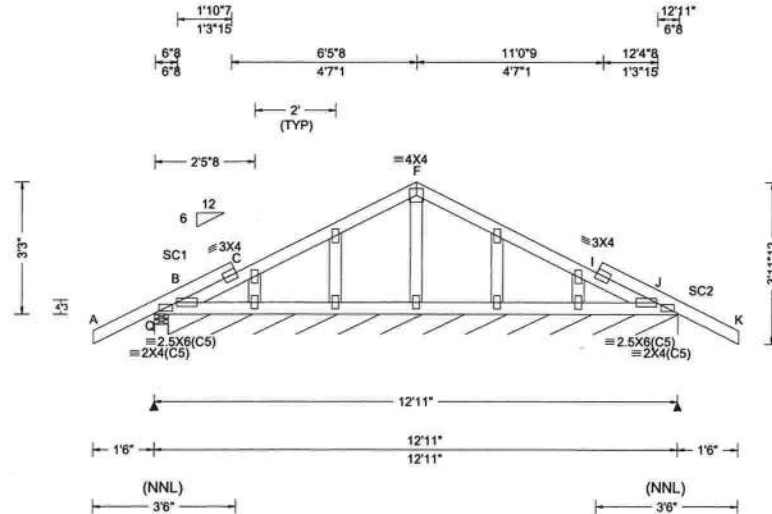
FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/13/2020

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): 0.001 C 999 240 VERT(CL): 0.002 C 999 180 HORZ(LL): 0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.475 Max BC CSI: 0.041 Max Web CSI: 0.067  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs), or *PLF</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>509</td> <td>-</td> <td>-</td> <td>/336</td> <td>/163</td> <td>/76</td> </tr> <tr> <td>J*</td> <td>146</td> <td>-</td> <td>-</td> <td>/79</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          Q Brg Width = 4.0 Min Req = 1.5          J Brg Width = 151 Min Req = -          Bearings Q &amp; B are a rigid surface.          Members not listed have forces less than 375#</p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	Q	509	-	-	/336	/163	/76	J*	146	-	-	/79	-	-
Loc	Gravity			Non-Gravity																											
	R+	/R-	/Rh	/Rw	/U	/RL																									
Q	509	-	-	/336	/163	/76																									
J*	146	-	-	/79	-	-																									

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

**Plating Notes**  
 All plates are 2X4 except as noted.

**Loading**  
 Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.  
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x4.  
 The overall height of this truss including overhang is 3-3-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

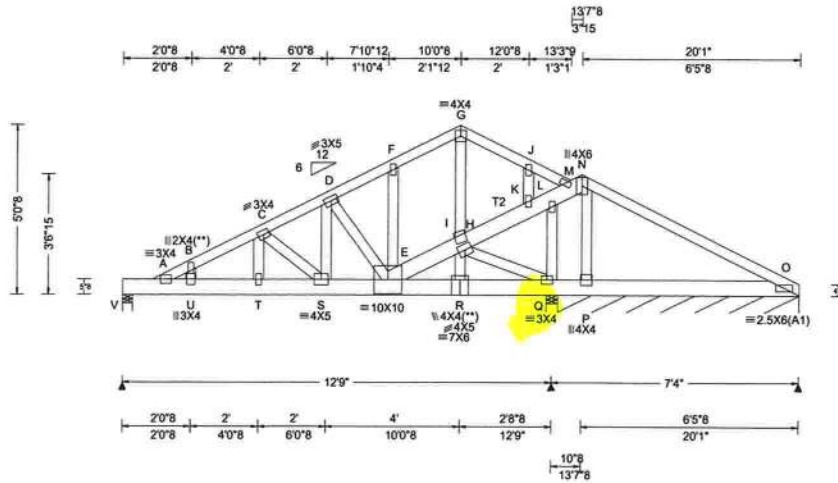
**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) 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; SBCE: www.sbceindustry.com; ICC: www.iccsafe.org



2 Complete Trusses Required



<b>Loading Criteria (psf)</b> 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 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): -0.112 V 999 240 VERT(CL): 0.148 S 999 180 HORZ(LL): 0.038 G - - HORZ(TL): 0.051 G - - Creep Factor: 2.0 Max TC CSI: 0.717 Max BC CSI: 0.643 Max Web CSI: 0.558  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs), or *=PLF</b>																																					
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>V</td> <td>1793</td> <td>-</td> <td>/0</td> <td>-</td> <td>-</td> <td>/0</td> </tr> <tr> <td>Q</td> <td>3415</td> <td>-</td> <td>-</td> <td>-</td> <td>/1308</td> <td>-</td> </tr> <tr> <td>O*</td> <td>344</td> <td>-</td> <td>-</td> <td>-</td> <td>/33</td> <td>-</td> </tr> <tr> <td>O</td> <td colspan="6">-1748</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS                  V Brg Width = 3.5 Min Req = 1.5                  Q Brg Width = 4.0 Min Req = 1.5                  O Brg Width = 86.0 Min Req = -                  Bearings V, Q, &amp; Q are a rigid surface.                  Members not listed have forces less than 375#</p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	V	1793	-	/0	-	-	/0	Q	3415	-	-	-	/1308	-	O*	344	-	-	-	/33	-	O	-1748	
Loc	Gravity			Non-Gravity																																					
	R+	/R-	/Rh	/Rw	/U	/RL																																			
V	1793	-	/0	-	-	/0																																			
Q	3415	-	-	-	/1308	-																																			
O*	344	-	-	-	/33	-																																			
O	-1748																																								

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

**Nailnote**  
 Nail Schedule: 0.131"x3", min. nails  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @ 4.50" 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 62 plf at 0.91 to 62 plf at 7.13  
 TC: From 31 plf at 7.13 to 31 plf at 10.04  
 TC: From 62 plf at 10.04 to 62 plf at 20.08  
 BC: From 80 plf at 0.00 to 80 plf at 0.91  
 BC: From 20 plf at 0.91 to 20 plf at 7.13  
 BC: From 10 plf at 7.13 to 10 plf at 20.08  
 BC: 3403 lb Conc. Load at 7.13  
 BC: 1395 lb Conc. Load at 9.06  
 BC: 1400 lb Conc. Load at 11.06

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 5-0-8.  
 Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

**Maximum Top Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	0 -2450	H - I	3887 - 938
B - C	0 -2191	I - K	3416 - 1003
C - D	0 -2041	J - M	0 -1451
D - F	0 -1403	K - L	3407 - 1039
E - H	3504 - 738	L - M	2925 - 910
F - G	0 -1335	M - N	2168 - 964
G - J	0 -1422	N - O	2077 - 1177

**Maximum Bot Chord Forces Per Ply (lbs)**

Chords	Tens.Comp.	Chords	Tens. Comp.
A - U	1896 0	E - R	774 - 1792
U - T	1952 0	R - Q	777 - 1822
T - S	1946 0	Q - P	1010 - 1738
S - E	1737 0	P - O	1045 - 1842

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
B - U	539 0	R - H	916 - 96
S - D	965 -163	Q - L	280 - 1057
D - E	169 - 948	N - P	745 - 2285
G - I	1141 0		



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Plating Notes**  
 All plates are 2X4 except as noted.  
 (\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

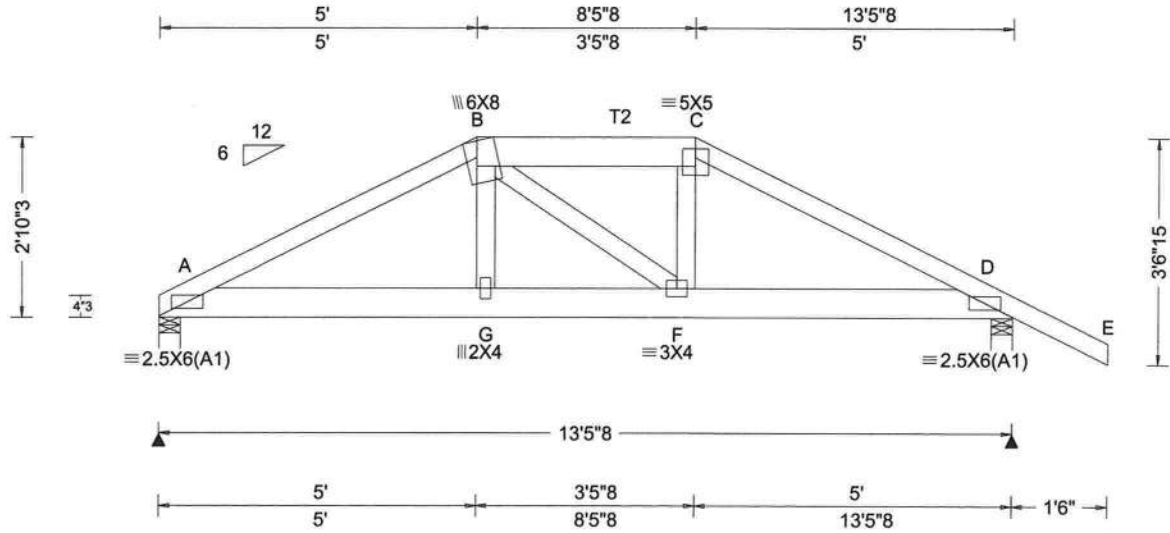
**Wind**  
 Wind loads and reactions based on MWFRS.  
 Uplifts based on an elevation at or above 1000 ft.

**\*\*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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> 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"	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.029 G 999 240 VERT(CL): 0.058 G 999 180 HORZ(LL): 0.008 F - - HORZ(TL): 0.016 F - - Creep Factor: 2.0 Max TC CSI: 0.277 Max BC CSI: 0.146 Max Web CSI: 0.126  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1004</td> <td>-</td> <td>-</td> <td>-</td> <td>/201</td> <td>-</td> </tr> <tr> <td>D</td> <td>1118</td> <td>-</td> <td>-</td> <td>-</td> <td>/242</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          A Brg Width = 4.0 Min Req = 1.5          D Brg Width = 4.0 Min Req = 1.5          Bearings A &amp; D are a rigid surface.          Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>A - B</td> <td>394 - 1842</td> <td>C - D</td> <td>388 - 1820</td> </tr> <tr> <td>B - C</td> <td>325 - 1621</td> <td></td> <td></td> </tr> </tbody> </table> </p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	A	1004	-	-	-	/201	-	D	1118	-	-	-	/242	-	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	394 - 1842	C - D	388 - 1820	B - C	325 - 1621		
Loc	Gravity			Non-Gravity																																							
	R+	/R-	/Rh	/Rw	/U	/RL																																					
A	1004	-	-	-	/201	-																																					
D	1118	-	-	-	/242	-																																					
Chords	Tens.Comp.	Chords	Tens. Comp.																																								
A - B	394 - 1842	C - D	388 - 1820																																								
B - C	325 - 1621																																										

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

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

TC: From 62 plf at 0.00 to 62 plf at 5.00
TC: From 31 plf at 5.00 to 31 plf at 8.46
TC: From 62 plf at 8.46 to 62 plf at 14.96
BC: From 20 plf at 0.00 to 20 plf at 5.03
BC: From 10 plf at 5.03 to 10 plf at 8.43
BC: From 20 plf at 8.43 to 20 plf at 13.46
BC: From 4 plf at 13.46 to 4 plf at 14.96
TC: 204 lb Conc. Load at 5.03, 8.43
TC: 127 lb Conc. Load at 6.73
BC: 215 lb Conc. Load at 5.03, 8.43
BC: 89 lb Conc. Load at 6.73

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

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

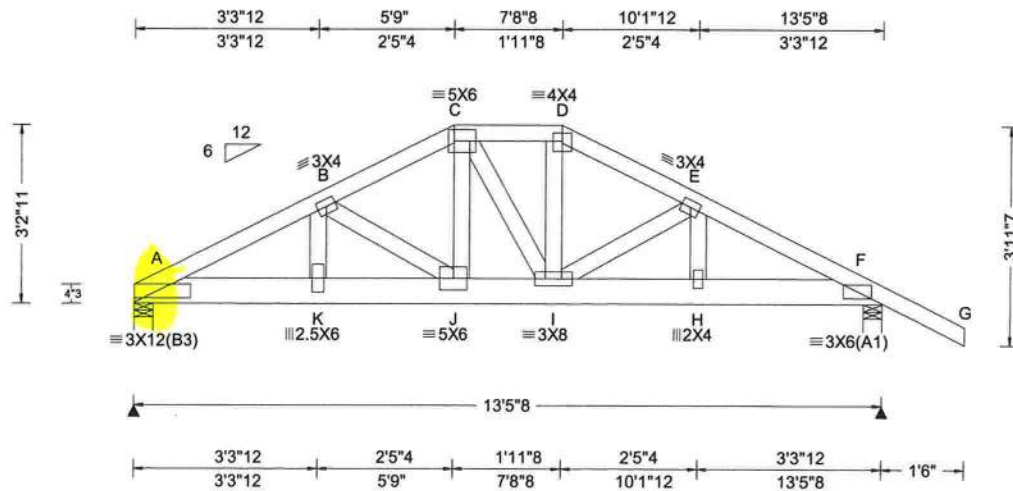


FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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



2 Complete Trusses Required



<b>Loading Criteria (psf)</b> TCCL: 20.00 TCCL: 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"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.057 J 999 240 VERT(CL): 0.113 J 999 180 HORZ(LL): 0.013 B - - HORZ(TL): 0.027 B - - Creep Factor: 2.0 Max TC CSI: 0.334 Max BC CSI: 0.374 Max Web CSI: 0.640  VIEW Ver: 19.02.02B.0122.15	<b>Maximum Reactions (lbs)</b> Gravity Loc R+ /R- /Rh /Rw /U /RL Non-Gravity /Rw /U /RL
				A 4903 /- /- /- /944 /- F 2594 /- /- /- /549 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 2.0 F Brg Width = 4.0 Min Req = 1.5 Bearings A & F are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

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

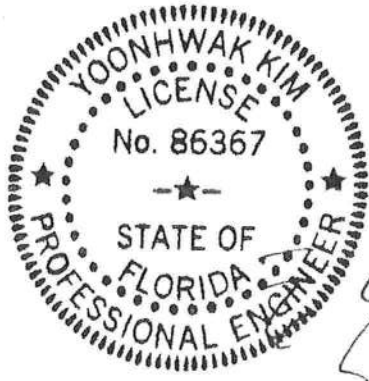
**Nailnote**  
 Nail Schedule: 0.131"x3", min. nails  
 Top Chord: 1 Row @ 12.00" o.c.  
 Bot Chord: 1 Row @ 3.25" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

TC: From 62 plf at 0.00 to 62 plf at 14.96
BC: From 10 plf at 0.00 to 10 plf at 6.40
BC: From 20 plf at 6.40 to 20 plf at 13.46
BC: From 4 plf at 13.46 to 4 plf at 14.96
BC: 1172 lb Conc. Load at 0.40, 2.40, 4.40
BC: 2836 lb Conc. Load at 6.40

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

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 3-2-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**Maximum Bot Chord Forces Per Ply (lbs)**

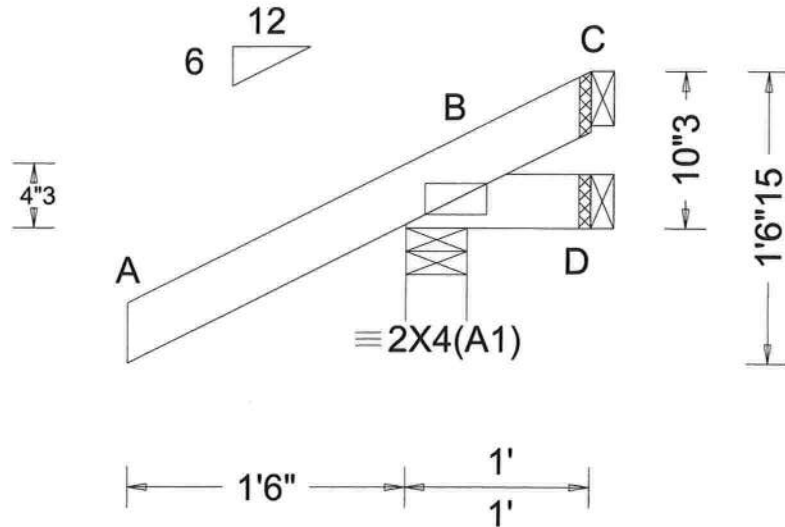
Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	3259 -648	I - H	2161 -444
K - J	3225 -644	H - F	2152 -441
J - I	2597 -538		

**Maximum Web Forces Per Ply (lbs)**

Webs	Tens.Comp.	Webs	Tens. Comp.
K - B	691 -98	C - I	105 -529
B - J	129 -767	I - D	1051 -207
C - J	1680 -333		

**\*\*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.alpinetw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> TCCL: 20.00 TCCL: 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 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.289 Max BC CSI: 0.038 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>254</td> <td>-</td> <td>-</td> <td>1202</td> <td>170</td> <td>135</td> </tr> <tr> <td>D</td> <td>4</td> <td>-18</td> <td>-</td> <td>117</td> <td>118</td> <td>-</td> </tr> <tr> <td>C</td> <td>-</td> <td>-53</td> <td>-</td> <td>132</td> <td>155</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	254	-	-	1202	170	135	D	4	-18	-	117	118	-	C	-	-53	-	132	155	-
				Loc		Gravity			Non-Gravity																													
R+	/R-	/Rh	/Rw		/U	/RL																																
B	254	-	-	1202	170	135																																
D	4	-18	-	117	118	-																																
C	-	-53	-	132	155	-																																
<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;																																						

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 0-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

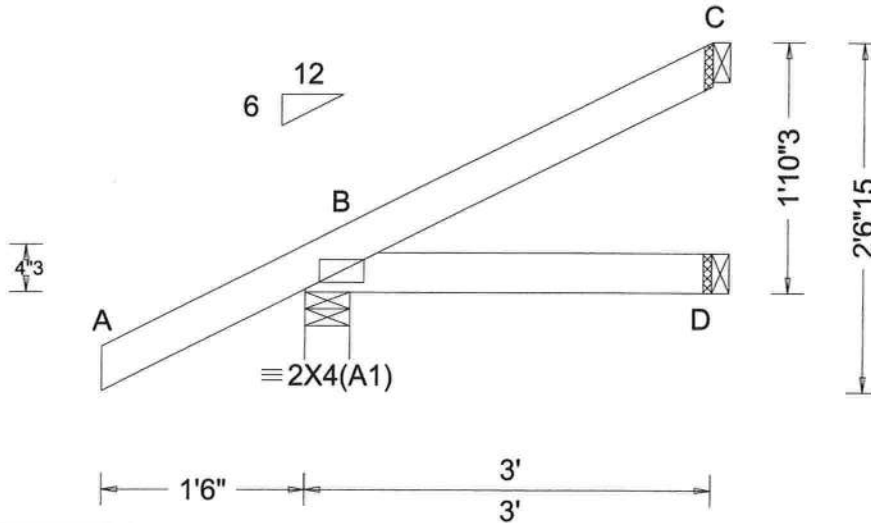
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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





<b>Loading Criteria (psf)</b> TCCL: 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 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.181 Max BC CSI: 0.072 Max Web CSI: 0.000	<b>▲ Maximum Reactions (lbs)</b>																														
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>262</td> <td>/-</td> <td>/-</td> <td>/192</td> <td>/44</td> <td>/64</td> </tr> <tr> <td>D</td> <td>49</td> <td>/-</td> <td>/-</td> <td>/39</td> <td>/1</td> <td>/-</td> </tr> <tr> <td>C</td> <td>62</td> <td>/-</td> <td>/-</td> <td>/26</td> <td>/25</td> <td>/-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	262	/-	/-	/192	/44	/64	D	49	/-	/-	/39	/1	/-	C	62	/-
Loc	Gravity			Non-Gravity																														
	R+	/R-	/Rh	/Rw	/U	/RL																												
B	262	/-	/-	/192	/44	/64																												
D	49	/-	/-	/39	/1	/-																												
C	62	/-	/-	/26	/25	/-																												

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 1-10-3.

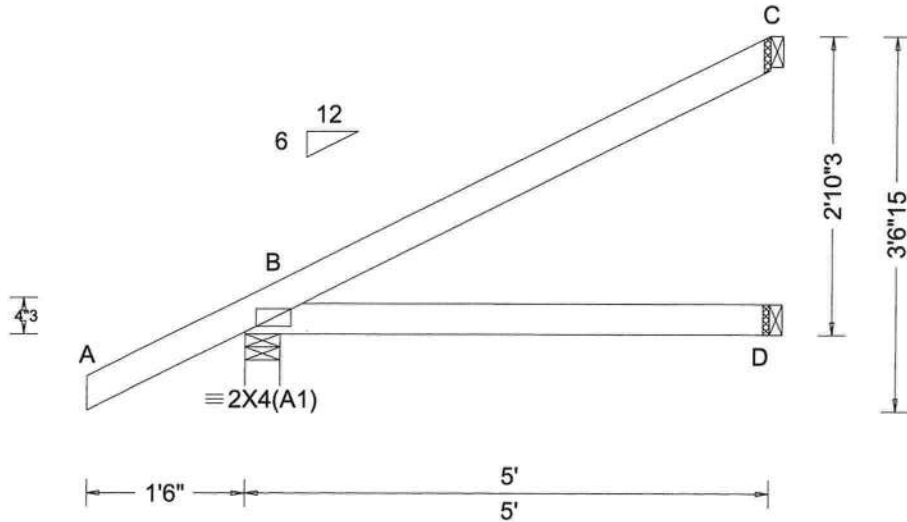


FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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 BCSA (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSA. 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 BCSA 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



SEQN: 591866 FROM: CDM	JACK Ply: 1 Qty: 2	Job Number: 20-4232 Sylvester Warren-Lot 4 Emerald Cove Truss Label: J03	Cust: R 215 JRef:1WV82150002 T22 DrwNo: 134.20.1425.39310 / YK 05/13/2020
---------------------------	--------------------------	--	---



<b>Loading Criteria (psf)</b> TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.310 Max BC CSI: 0.247 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>331</td> <td>-</td> <td>-</td> <td>1235</td> <td>147</td> <td>192</td> </tr> <tr> <td>D</td> <td>89</td> <td>-</td> <td>-</td> <td>163</td> <td>-</td> <td>-</td> </tr> <tr> <td>C</td> <td>127</td> <td>-</td> <td>-</td> <td>163</td> <td>149</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	331	-	-	1235	147	192	D	89	-	-	163	-	-	C	127	-	-	163	149	-
Loc	Gravity			Non-Gravity																																		
	R+	/R-	/Rh	/Rw	/U	/RL																																
B	331	-	-	1235	147	192																																
D	89	-	-	163	-	-																																
C	127	-	-	163	149	-																																

**Lumber**

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

**Wind**

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

Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

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

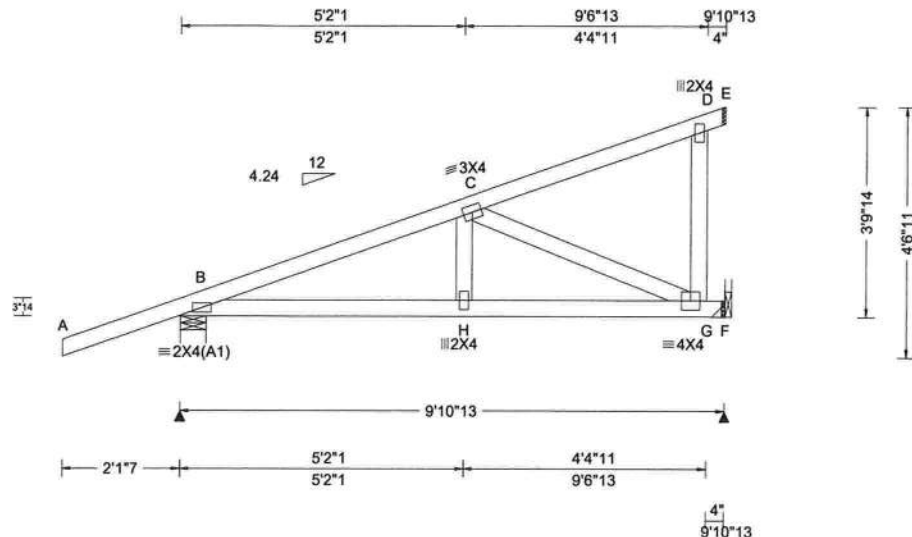
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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



<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soft: 2.00 Load Duration: 1.25 Spacing: 24.0"	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): 0.025 H 999 240 VERT(CL): 0.048 H 999 180 HORZ(LL): 0.005 G - - HORZ(TL): 0.010 G - - Creep Factor: 2.0 Max TC CSI: 0.557 Max BC CSI: 0.699 Max Web CSI: 0.299  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 368 /- /- /- /201 /- F 414 /- /- /- /98 /- Wind reactions based on MWFRS B Brg Width = 5.7 Min Req = 1.5 F Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 244 -712
---	--	---	---	---

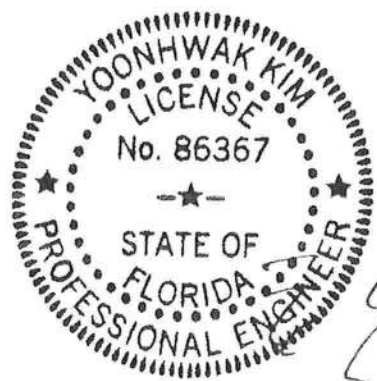
**Lumber**  
Top chord: 2x4 SP #2;  
Bot chord: 2x4 SP #2;  
Webs: 2x4 SP #3;

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

TC: From 0 plf at -2.12 to 61 plf at 0.00	TC: From 2 plf at 0.00 to 2 plf at 9.90
BC: From 0 plf at -2.12 to 4 plf at 0.00	BC: From 2 plf at 0.00 to 2 plf at 9.90
TC: -41 lb Conc. Load at 1.48	TC: 124 lb Conc. Load at 4.31
TC: 255 lb Conc. Load at 7.13	BC: 8 lb Conc. Load at 1.48
BC: 98 lb Conc. Load at 4.31	BC: 179 lb Conc. Load at 7.13

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

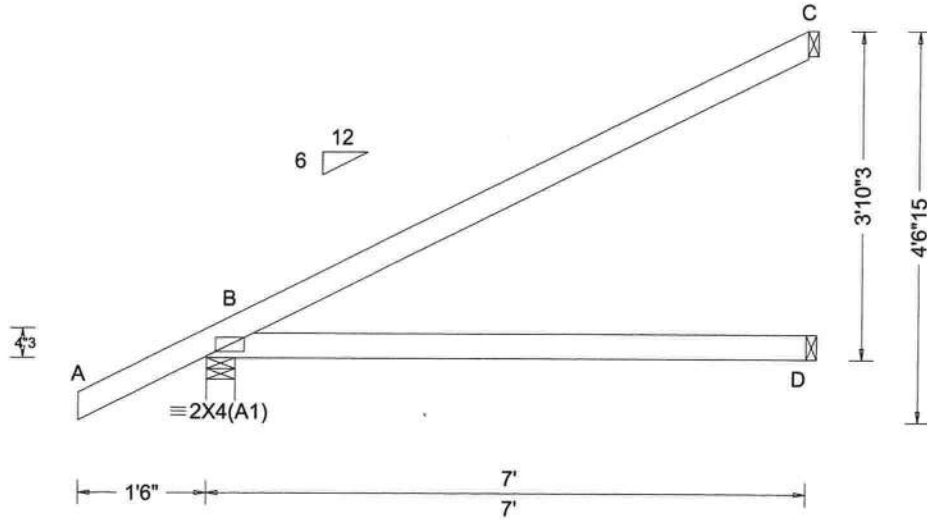
**Additional Notes**  
Refer to General Notes for additional information  
The overall height of this truss excluding overhang is 3-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
05/13/2020

**\*\*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 BCS1 (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. 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 BCS1 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.alpinetw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDD: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDD: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.014 D - - HORZ(TL): 0.028 D - - Creep Factor: 2.0 Max TC CSI: 0.713 Max BC CSI: 0.512 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>408</td> <td>-</td> <td>-</td> <td>284</td> <td>53</td> <td>121</td> </tr> <tr> <td>D</td> <td>129</td> <td>-</td> <td>-</td> <td>89</td> <td>-</td> <td>-</td> </tr> <tr> <td>C</td> <td>187</td> <td>-</td> <td>-</td> <td>195</td> <td>77</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS            B Brg Width = 4.0 Min Req = 1.5            D Brg Width = 1.5 Min Req = -            C Brg Width = 1.5 Min Req = -            Bearing B is a rigid surface.            Members not listed have forces less than 375#</p>						Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	408	-	-	284	53	121	D	129	-	-	89	-	-	C	187	-	-	195	77	-
				Loc	Gravity			Non-Gravity																																			
R+	/R-	/Rh	/Rw		/U	/RL																																					
B	408	-	-	284	53	121																																					
D	129	-	-	89	-	-																																					
C	187	-	-	195	77	-																																					
<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;																																											

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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-2 for standard plate positions.

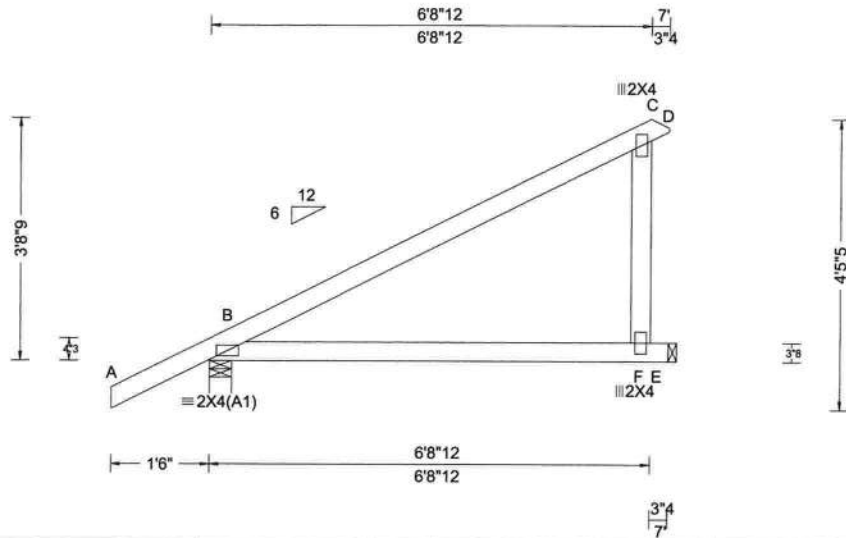
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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



6750 Forum Drive  
 Suite 305  
 Orlando FL, 32821

SEQN: 591874 FROM: CDM	EJAC Qty: 3	Ply: 1	Job Number: 20-4232 Sylvester Warren-Lot 4 Emerald Cove Truss Label: J5A	Cust: R 215 JRef: 1WV82150002 T34 DrwNo: 134.20.1425.57780 / YK 05/13/2020
---------------------------	----------------	--------	--	--



<b>Loading Criteria (psf)</b> TCCL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.012 F - - HORZ(TL): 0.024 F - - Creep Factor: 2.0 Max TC CSI: 0.597 Max BC CSI: 0.477 Max Web CSI: 0.232  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL
				B 408 /- /- /284 /54 /118 E 268 /- /- /177 /65 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

**Lumber**

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

**Wind**

Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 3-8-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

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

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

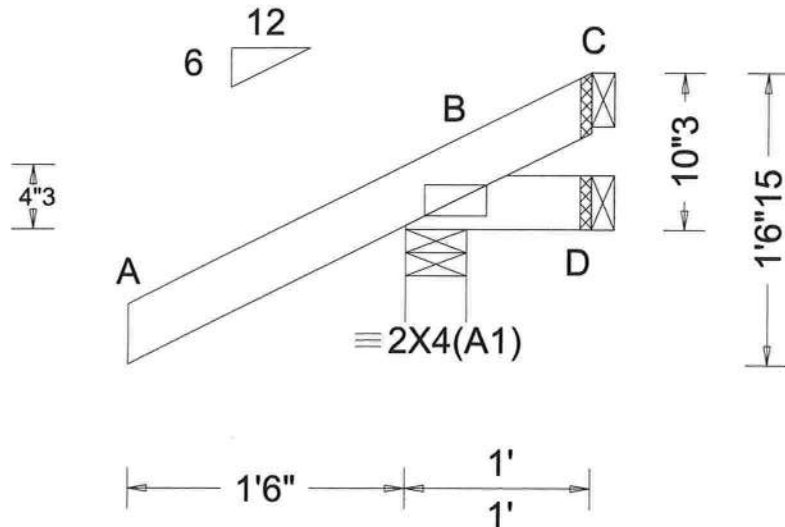
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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-2 for standard plate positions.

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



SEQN: 591867 FROM: CDM	JACK Ply: 1 Qty: 4	Job Number: 20-4232 Sylvester Warren-Lot 4 Emerald Cove Truss Label: J06	Cust: R 215 JRef: 1WV82150002 T10 DrawNo: 134.20.1426.00540 / YK 05/13/2020
---------------------------	--------------------------	--	---



<b>Loading Criteria (psf)</b> TCLL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.289 Max BC CSI: 0.038 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>254</td> <td>-</td> <td>-</td> <td>/202</td> <td>/70</td> <td>/35</td> </tr> <tr> <td>D</td> <td>4</td> <td>-18</td> <td>-</td> <td>/17</td> <td>/18</td> <td>-</td> </tr> <tr> <td>C</td> <td>-</td> <td>-53</td> <td>-</td> <td>/32</td> <td>/55</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          D Brg Width = 1.5 Min Req = -          C Brg Width = 1.5 Min Req = -          Bearing B is a rigid surface.          Members not listed have forces less than 375#</p>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	254	-	-	/202	/70	/35	D	4	-18	-	/17	/18	-	C	-	-53	-	/32	/55	-
Loc	Gravity			Non-Gravity																																		
	R+	/R-	/Rh	/Rw	/U	/RL																																
B	254	-	-	/202	/70	/35																																
D	4	-18	-	/17	/18	-																																
C	-	-53	-	/32	/55	-																																

**Lumber**

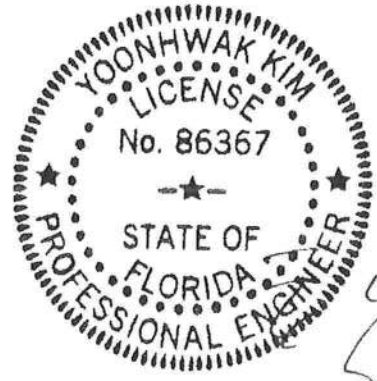
Top chord: 2x4 SP #2;  
 Bot chord: 2x4 SP #2;

**Wind**

Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

**Additional Notes**

Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 0-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

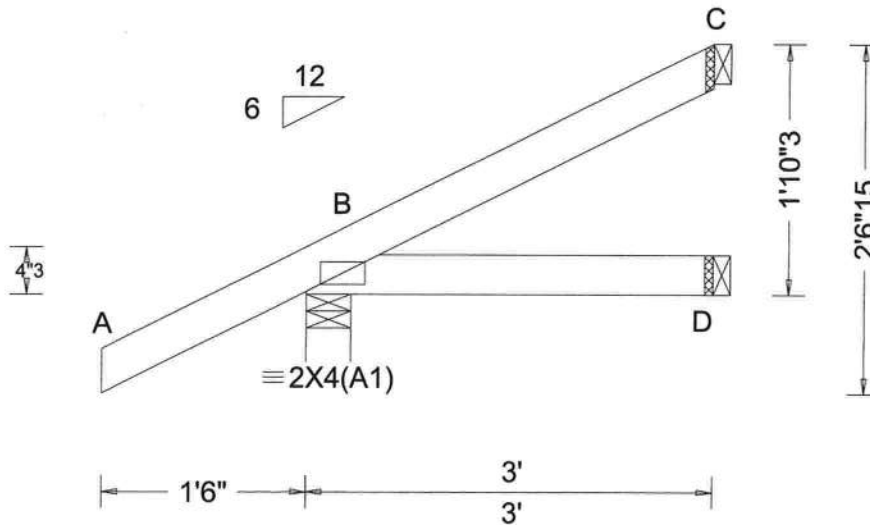
**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!**  
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



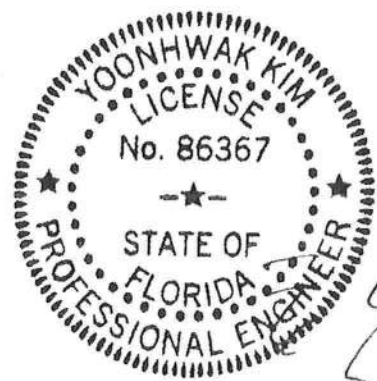


<b>Loading Criteria (psf)</b> TCLL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> 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: 0.181 Max BC CSI: 0.072 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b>																														
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>262</td> <td>-</td> <td>-</td> <td>/192</td> <td>/44</td> <td>/64</td> </tr> <tr> <td>D</td> <td>49</td> <td>-</td> <td>-</td> <td>/39</td> <td>/1</td> <td>-</td> </tr> <tr> <td>C</td> <td>62</td> <td>-</td> <td>-</td> <td>/26</td> <td>/25</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          B Brg Width = 4.0 Min Req = 1.5          D Brg Width = 1.5 Min Req = -          C Brg Width = 1.5 Min Req = -          Bearing B is a rigid surface.          Members not listed have forces less than 375#</p>	Loc	Gravity			Non-Gravity			R+	R-	/Rh	/Rw	/U	/RL	B	262	-	-	/192	/44	/64	D	49	-	-	/39	/1	-	C	62	-
Loc	Gravity			Non-Gravity																														
	R+	R-	/Rh	/Rw	/U	/RL																												
B	262	-	-	/192	/44	/64																												
D	49	-	-	/39	/1	-																												
C	62	-	-	/26	/25	-																												

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

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

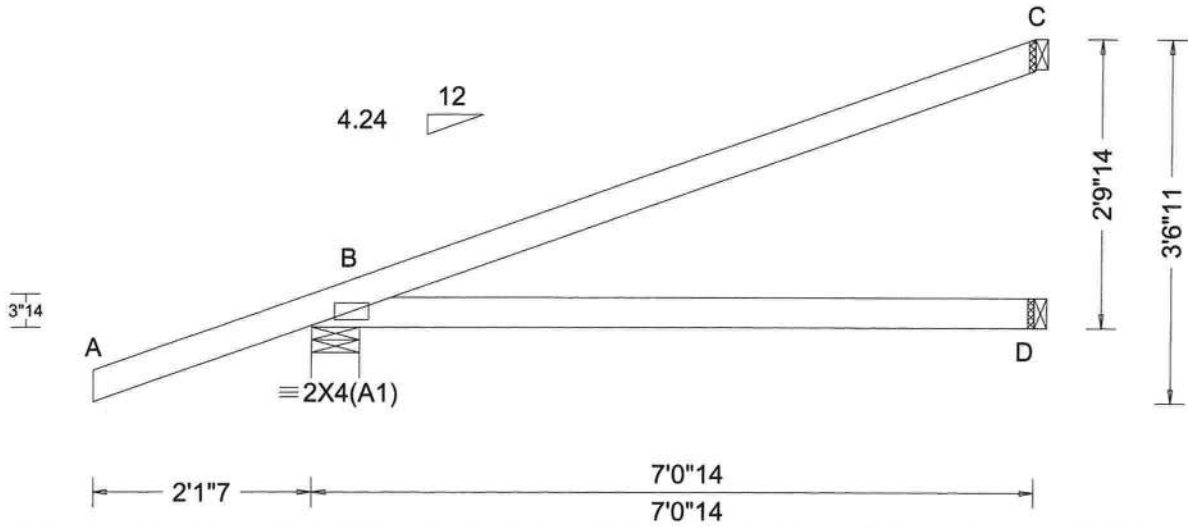
**Additional Notes**  
 Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 1-10-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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-2 for standard plate positions.  
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation 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





<b>Loading Criteria (psf)</b> TCLL: 20.00 TC DL: 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 "	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TC DL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.011 D - - HORZ(TL): 0.023 D - - Creep Factor: 2.0 Max TC CSI: 0.539 Max BC CSI: 0.490 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>284</td> <td>/-</td> <td>/-</td> <td>/-</td> <td>/161</td> <td>/-</td> </tr> <tr> <td>D</td> <td>126</td> <td>/-</td> <td>/-</td> <td>/-</td> <td>/14</td> <td>/-</td> </tr> <tr> <td>C</td> <td>77</td> <td>/-</td> <td>/-</td> <td>/-</td> <td>/35</td> <td>/-</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	284	/-	/-	/-	/161	/-	D	126	/-	/-	/-	/14	/-	C	77	/-	/-	/-	/35	/-
				Loc		Gravity			Non-Gravity																													
R+	/R-	/Rh	/Rw		/U	/RL																																
B	284	/-	/-	/-	/161	/-																																
D	126	/-	/-	/-	/14	/-																																
C	77	/-	/-	/-	/35	/-																																
<b>Wind reactions based on MWFRS</b> B Brg Width = 5.7 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**

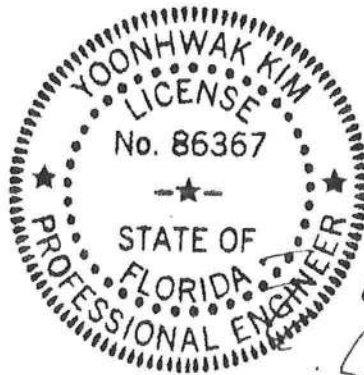
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
 TC: From 0 plf at -2.12 to 61 plf at 0.00  
 TC: From 2 plf at 0.00 to 2 plf at 7.07  
 BC: From 0 plf at -2.12 to 4 plf at 0.00  
 BC: From 2 plf at 0.00 to 2 plf at 7.07  
 TC: -41 lb Conc. Load at 1.48  
 TC: 124 lb Conc. Load at 4.31  
 BC: 8 lb Conc. Load at 1.48  
 BC: 98 lb Conc. Load at 4.31

**Wind**

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

**Additional Notes**

Refer to General Notes for additional information  
 The overall height of this truss excluding overhang is 2-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

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

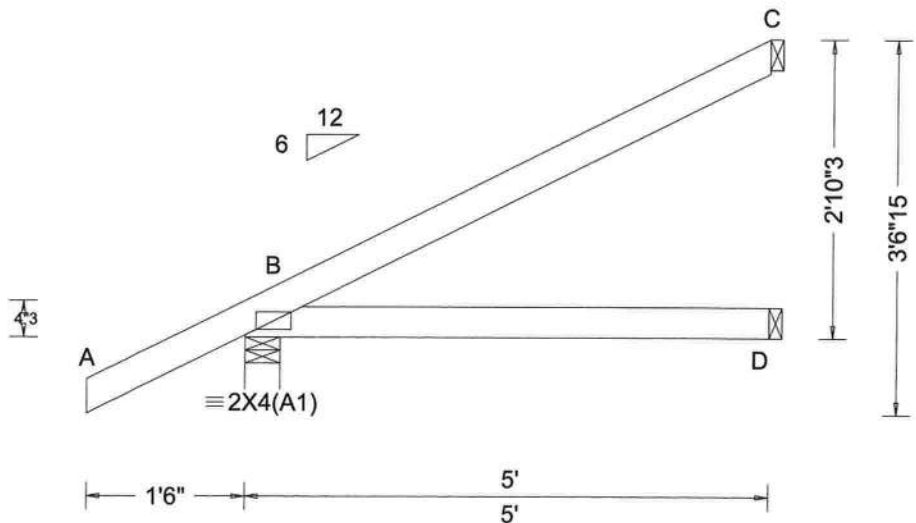
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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





<b>Loading Criteria (psf)</b> TCCL: 20.00 TCCL: 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"	<b>Wind Criteria</b> Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 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	<b>Snow Criteria (Pg,Pf in PSF)</b> Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  <b>Code / Misc Criteria</b> Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	<b>Defl/CSI Criteria</b> PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 D - - HORZ(TL): 0.008 D - - Creep Factor: 2.0 Max TC CSI: 0.310 Max BC CSI: 0.247 Max Web CSI: 0.000  VIEW Ver: 19.02.02B.0122.15	<b>▲ Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>331</td> <td>/-</td> <td>/-</td> <td>/235</td> <td>/47</td> <td>/92</td> </tr> <tr> <td>D</td> <td>89</td> <td>/-</td> <td>/-</td> <td>/63</td> <td>/-</td> <td>/-</td> </tr> <tr> <td>C</td> <td>127</td> <td>/-</td> <td>/-</td> <td>/63</td> <td>/49</td> <td>/-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	331	/-	/-	/235	/47	/92	D	89	/-	/-	/63	/-	/-	C	127	/-	/-	/63	/49	/-
				Loc		Gravity			Non-Gravity																													
R+	/R-	/Rh	/Rw		/U	/RL																																
B	331	/-	/-	/235	/47	/92																																
D	89	/-	/-	/63	/-	/-																																
C	127	/-	/-	/63	/49	/-																																
<b>Lumber</b> Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;																																						

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Uplifts based on an elevation at or above 1000 ft.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367  
 05/13/2020

**\*\*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





# Gable Stud Reinforcement Detail

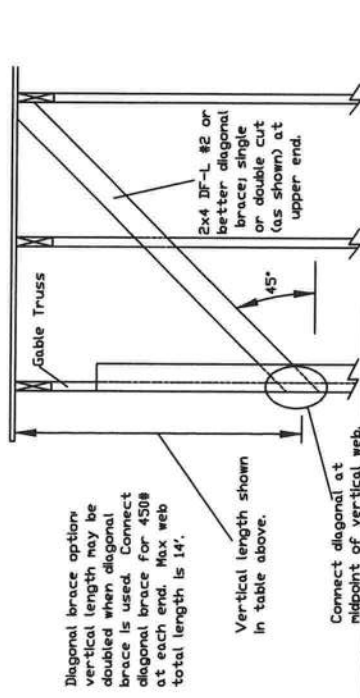
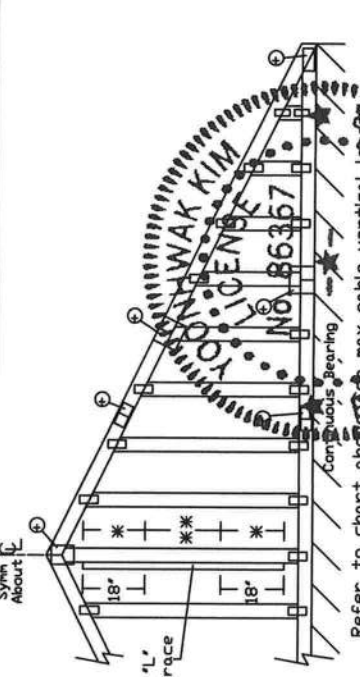
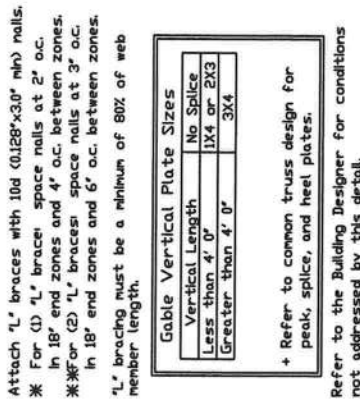
ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

1x4 Braces shall be SRB (Stress-Rated Board).  
 For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.  
**Gable Truss Detail Notes:**  
 Wind Load deflection criterion is L/240.  
 Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).  
 Gable end supports load from 4' 0" outlofters with 2' 0" overhang, or 12" plywood overhang.



REF	ASCE7-10-GABI4015
DATE	10/01/14
DRWG	A14015ENC101014

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

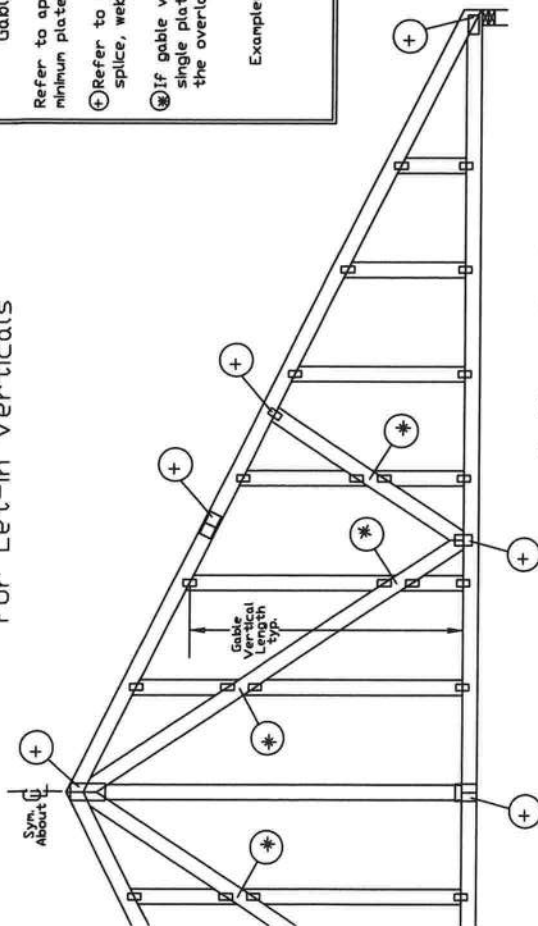
**ALPINE AN ITW COMPANY**

13723 Riverport Drive  
 Suite 200  
 Maryland Heights, MO 63043

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

**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**  
 Trusses are to be fabricated, handled, shipped, installed and braced. Refer to and follow the latest editions of AISC, ASCE, and other applicable codes and standards. Practices prior to performing these functions. Installers shall provide for safety 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 of truss and position as shown above and the 140" details, unless noted otherwise. Refer to drawings 150A-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, bracing of trusses. The user of this drawing shall be responsible for the design and engineering responsibility for any structure. For more information see this job's general notes page and these web sites: ALPINE: www.alpine.com TPI: www.tpinet.org SBCA: www.sbcaindustry.org ICC: www.iccsafe.org

# Gable Detail For Let-in Verticals

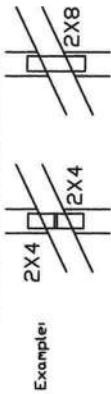


## Gable Truss Plate Sizes

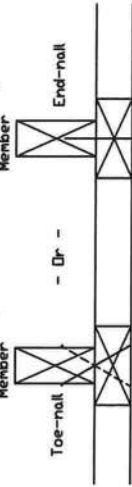
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



## \*T\* Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

### Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example:  
 ASCE 7-10 Wind Speed = 120 mph  
 Mean Roof Height = 30 ft; Kzt = 1.00  
 Gable Vertical = 24' o.c. SP #3  
 'T' Reinforcing Member Size = 2x4  
 'T' Brace Increase (From Above) = 30% = 1.30  
 (1) 2x4 'L' Brace Length = 8' 7"  
 Maximum 'T' Reinforced Gable Vertical Length = 1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

- End Driven Nails:
- 10d Common (0.148" x 3" min) Nails at 4' o.c. plus
- (4) nails in the top and bottom chords.

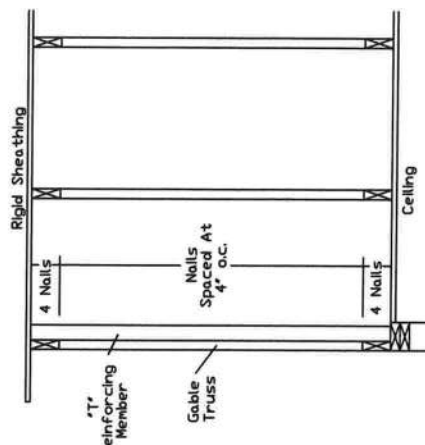
Toenailed Nails:

- 10d Common (0.148" x 3" min) Toenails at 4' o.c. plus
- (4) toenails in the top and bottom chords.

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

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A10015051014, A14015051014, A13030051014, A12030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A13015ENC100118, A120015ENC100118, A110015ENC100118, A100015ENC100118, A140015ENC100118, A130015ENC100118, A120015ENC100118, A110015ENC100118, A100015ENC100118
  - A18030ENC100118, A20030ENC100118, A14030ENC100118, A13030ENC100118, A12030ENC100118, A11030ENC100118, A10030ENC100118
  - S18015ENC100118, S20015ENC100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S20030ENC100118, S18030ENC100118, S20030ENC100118, S20030PEDI00118

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



**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. Trusses shall have proper bracing. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10 as applicable. Proper placement of sheathing and bracing is essential for the proper performance of the truss and shall be as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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

A seal on this drawing indicates the acceptance of professional engineering responsibility for the design shown. The seal of the professional engineer is required for any structure for which this drawing is used. For more information see this job's general notes page and these web sites: [www.alpinecompany.com](http://www.alpinecompany.com), [www.tpi.com](http://www.tpi.com), [www.sbcas.com](http://www.sbcas.com), [www.bcsibuildings.com](http://www.bcsibuildings.com), [www.alphainet.com](http://www.alphainet.com), [www.tpi.com](http://www.tpi.com), [www.sbcas.com](http://www.sbcas.com), [www.bcsibuildings.com](http://www.bcsibuildings.com)

ALPINE AN ITV COMPANY

13723 Riverport Drive  
 Suite 200  
 Maryland Heights, MO 63043

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"



Yoonhwak Kim, P.E. #86367