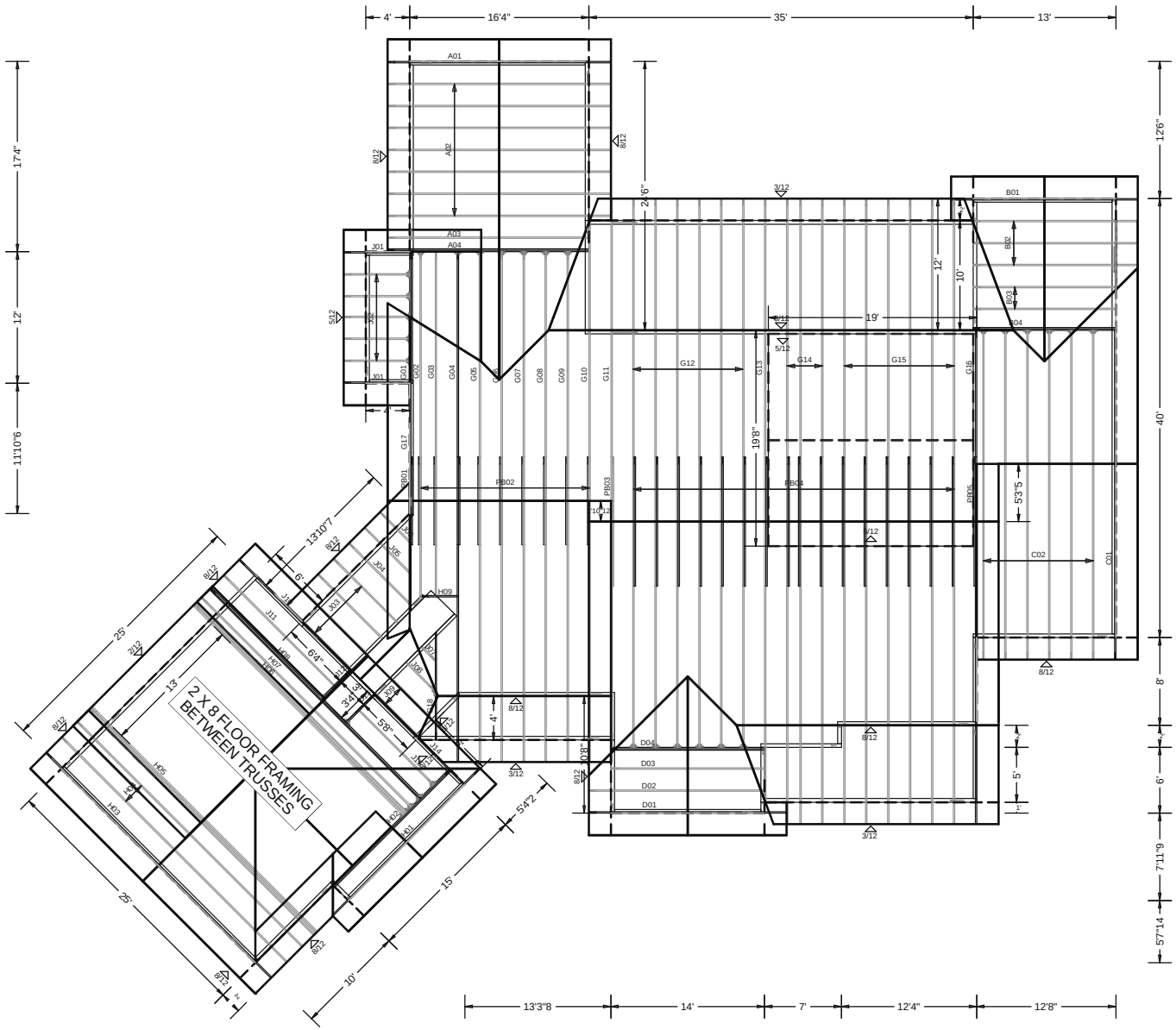


W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH:3/12
5/12, 8/12

OVERHANG:24"
PLUMB CUT

CEILING:5/12

EXT. WALLS:2 X 4
9' HT MAIN HOUSE
8' HT GARAGE

LOADING:40 PSF

WIND LOAD:130 MPH

EXPOSURE:"C"

DATE:9/29/2020

IMPORTANT DESIGN NOTES:

---TRUSSES WITH SPANS OVER 50' REQUIRE A 2 X 6 BOTTOM CHORD

---BONUS ROOM 12' WIDE AND 7' 6" HEIGHT

Roof Plane Sheathing Area = 6061 sq. ft
Gable Sheathing Area = 1388 sq. ft
Total Sheathing Area = 7449 sq. ft
Fascia Material = 467 linear ft
Valley Flashing Material = 137 linear ft
Ridge Cap Material = 300 linear ft
Hip Ridge Material = 21 linear ft

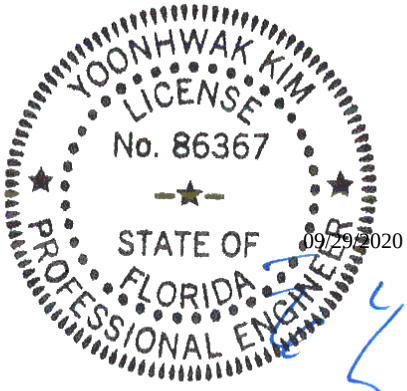
Total Material Cost: $ 0.00
Total Labor Cost: $ 0.00

JOB #: 20-4327

Job Name: Otero
Customer: PLUMB LEVEL CONST
Designer: Lynn Bell
ADDRESS:
SALESMAN: Fill in later
: <Not Found>

JOB NO:
20-4327

PAGE NO:
1 OF 1



09/29/2020

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ALPINE AN ITW COMPANY

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

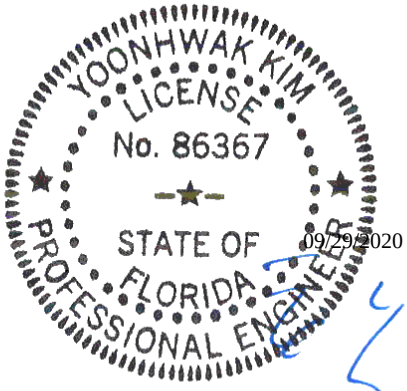
Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4327
Job Description: Otero	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	*IntelliVIEW Version:* 20.01.01A *JRef #:* 1WZ32150005
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 130 *Building Type:* Closed	*Roof Load (psf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 61 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	273.20.1419.58563	A01	2	273.20.1420.00133	A02
3	273.20.1420.01480	A03	4	273.20.1420.09177	A04
5	273.20.1420.11000	B01	6	273.20.1420.12253	B02
7	273.20.1420.13283	B03	8	273.20.1420.14470	B04
9	273.20.1420.22627	C01	10	273.20.1420.23993	C02
11	273.20.1420.25297	D01	12	273.20.1420.25993	D02
13	273.20.1420.26610	D03	14	273.20.1420.27527	D04
15	273.20.1420.28240	G01	16	273.20.1420.29477	G02
17	273.20.1420.30553	G03	18	273.20.1420.31693	G04
19	273.20.1420.32800	G05	20	273.20.1420.33743	G06
21	273.20.1420.34950	G07	22	273.20.1420.35997	G08
23	273.20.1420.36957	G09	24	273.20.1420.37853	G10
25	273.20.1420.39050	G11	26	273.20.1420.39930	G12
27	273.20.1420.41060	G13	28	273.20.1420.42247	G14
29	273.20.1420.43560	G15	30	273.20.1420.44870	G16
31	273.20.1420.45860	G17	32	273.20.1420.46993	G18
33	273.20.1420.47953	H01	34	273.20.1420.49063	H02
35	273.20.1420.50200	H03	36	273.20.1420.51350	H04
37	273.20.1420.52307	H05	38	273.20.1420.53310	H06
39	273.20.1420.55087	H07	40	273.20.1421.02143	H08
41	273.20.1421.06330	H09	42	273.20.1421.07990	J01
43	273.20.1421.09243	J02	44	273.20.1421.10357	J03
45	273.20.1421.11207	J04	46	273.20.1421.11840	J05
47	273.20.1421.12563	J06	48	273.20.1421.13457	J07
49	273.20.1421.14143	J08	50	273.20.1421.14910	J09
51	273.20.1421.15947	J10	52	273.20.1421.17860	J11



09/29/2020

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ALPINE AN ITW COMPANY

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

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4327
Job Description: Otero	
Address: FL	

Item	Drawing Number	Truss
53	273.20.1421.19763	J12
55	273.20.1421.23780	J14
57	273.20.1421.27170	PB01
59	273.20.1421.30240	PB03
61	273.20.1421.34900	PB05
63	GBLLETIN0118	
65	PB160160118	

Item	Drawing Number	Truss
54	273.20.1421.21497	J13
56	273.20.1421.25343	J15
58	273.20.1421.28967	PB02
60	273.20.1421.31607	PB04
62	A14015ENC160118	
64	BRCLBSUB0119	
66	A14030ENC160118	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

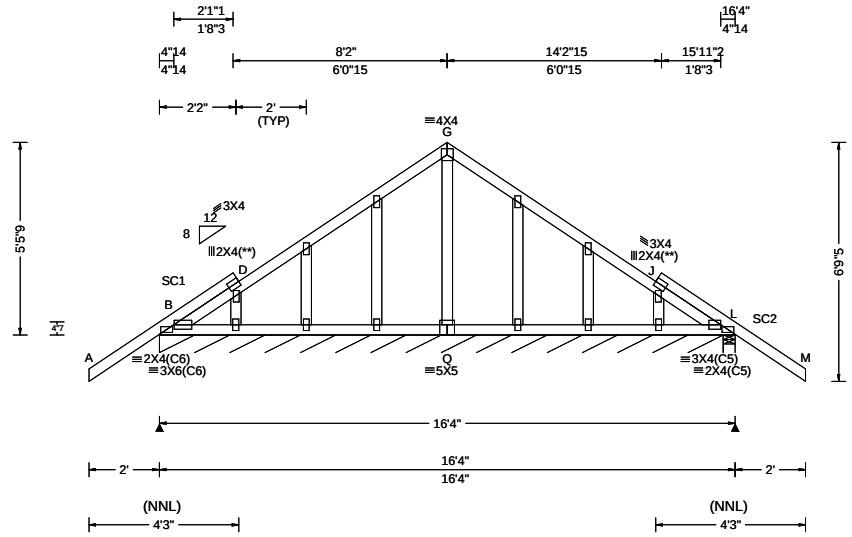
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.com.

SEQN: 336917 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** A01	Cust: R 215 JRef:1WZ32150005 T2 DrwNo: 273.20.1419.58563 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	T	819	240
VERT(CL): 0.008	T	426	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.892
Max BC CSI: 0.263
Max Web CSI: 0.134

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	154	/-	/-	/80	/-	/9
L	658	/-	/-	/507	/170	/-

Wind reactions based on MWFRS
B Brg Width = 192 Min Req = -
L Brg Width = 4.0 Min Req = 1.5
Bearings B & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - D	516	-441	D - G	384	-75
B - D	588	-572			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	485	-67	Q - L	483	-67

Lumber

Value Set: NDS 2015

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.

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

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

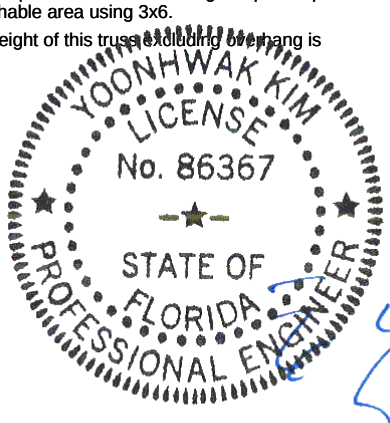
Wind loading based on gable roof types.

Additional Notes

See DWGS A14015ENC160118 & 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 5-5-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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

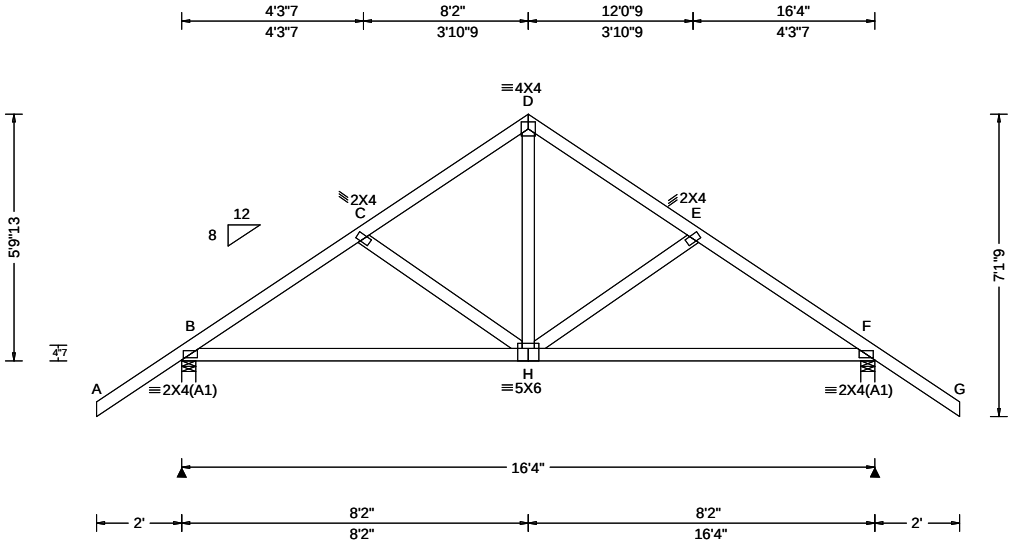
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

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

SEQN: 336918 COMN FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 20-4327 Otero **Truss Label:** A02	Cust: R 215 JRef:1WZ32150005 T1 DrwNo: 273.20.1420.00133 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.016	H	999	240
VERT(CL): 0.032	H	999	180
HORZ(LL): 0.009	H	-	-
HORZ(TL): 0.018	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.165
Max BC CSI: 0.614
Max Web CSI: 0.174

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	824	/-	/-	/529	/140	/221
F	824	/-	/-	/529	/140	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	363	- 872	D - E	321	- 663
C - D	321	- 663	E - F	363	- 872

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	661	- 107	H - F	661	- 131

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	458	- 138

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

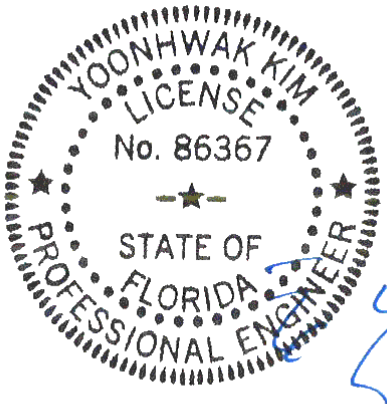
Wind

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

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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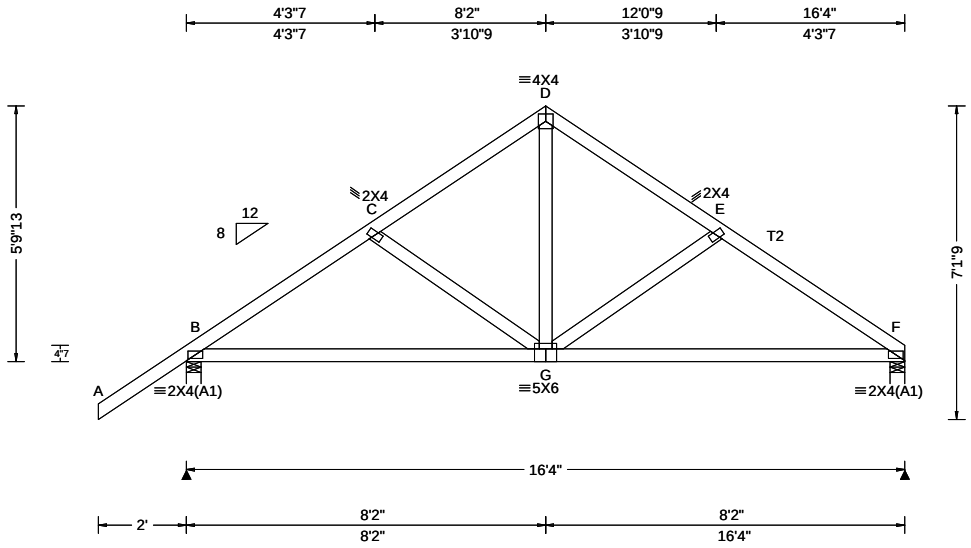
For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 336919 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** A03	Cust: R 215 JRef:1WZ32150005 T3 DrwNo: 273.20.1420.01480 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.016	G	999	240
VERT(CL): 0.034	G	999	180
HORZ(LL): 0.009	G	-	-
HORZ(TL): 0.018	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.187
Max BC CSI: 0.635
Max Web CSI: 0.179

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	834	/-	/-	/529	/12	/196
F	676	/-	/-	/403	/2	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	204	- 892	D - E	185	- 686
C - D	182	- 682	E - F	214	- 910

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	677	- 95	G - F	708	- 113

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - G	471	- 83

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

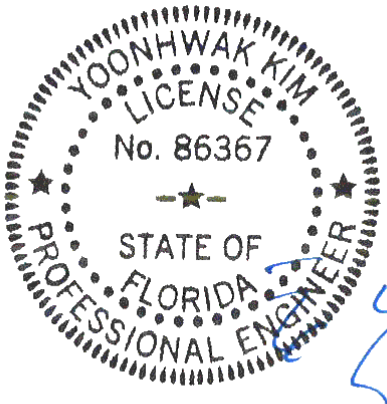
Wind

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

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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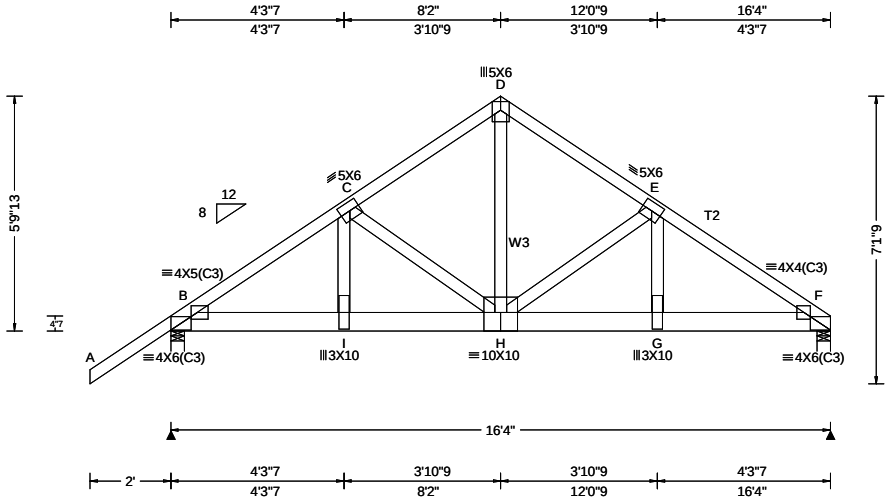
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336976 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** A04	Cust: R 215 JRef:1WZ32150005 T38 DrwNo: 273.20.1420.09177 / YK 09/29/2020	

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.087	H	999	240
VERT(CL): 0.174	H	999	180
HORZ(LL): 0.031	C	-	-
HORZ(TL): 0.061	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.607
Max BC CSI: 0.596
Max Web CSI: 0.848

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	7736	/-	/-	/-	/1116	/-
F	6935	/-	/-	/-	/729	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 2.7
F Brg Width = 4.0 Min Req = 2.4
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	725	-5103	D - E	496	-3479
C - D	496	-3477	E - F	609	-5101

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	4232	-597	H - G	4178	-493
I - H	4190	-591	G - F	4218	-495

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - C	1827	-245	H - E	105	-1613
C - H	229	-1629	E - G	1784	-95
D - H	3754	-518			

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP M-31; T2 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3 2x4 SP #2;

Nailnote
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

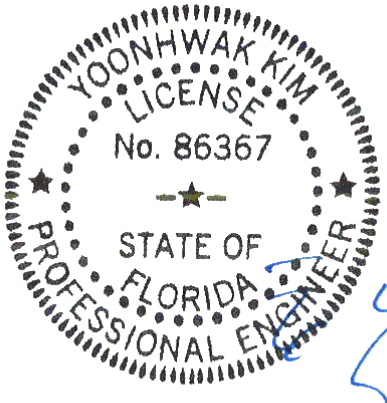
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	64 plf at	-2.00 to	64 plf at	1.01
TC: From	32 plf at	1.01 to	32 plf at	12.40
TC: From	64 plf at	12.40 to	64 plf at	16.33
BC: From	5 plf at	-2.00 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	16.33

BC: 1446 lb Conc. Load at 1.01
BC: 1412 lb Conc. Load at 2.40
BC: 1954 lb Conc. Load at 4.40
BC: 1741 lb Conc. Load at 6.40
BC: 1737 lb Conc. Load at 8.40
BC: 1793 lb Conc. Load at 10.40
BC: 1803 lb Conc. Load at 12.40,14.40

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

Additional Notes
The overall height of this truss excluding overhang is 5-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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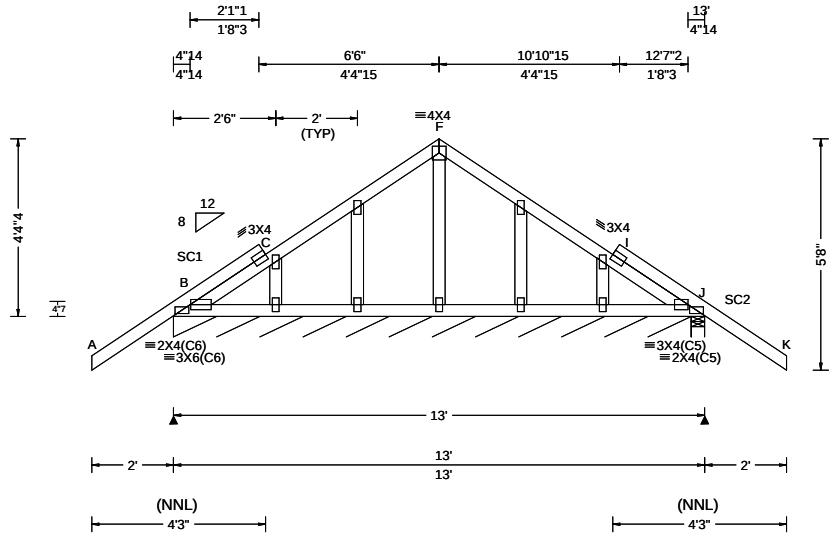
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336920 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** B01	Cust: R 215 JRef:1WZ32150005 T5 DrwNo: 273.20.1420.11000 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	P	940	240
VERT(CL): 0.007	P	494	180
HORZ(LL): -0.001	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.891
Max BC CSI: 0.117
Max Web CSI: 0.083

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B*	153	/-	/-	/83	/-	/11
J	653	/-	/-	/497	/230	/-

Wind reactions based on MWFRS
B Brg Width = 151 Min Req = -
J Brg Width = 4.0 Min Req = 1.5
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	464	-461	I - J	399	-450
B - C	591	-449			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - J	495	-74

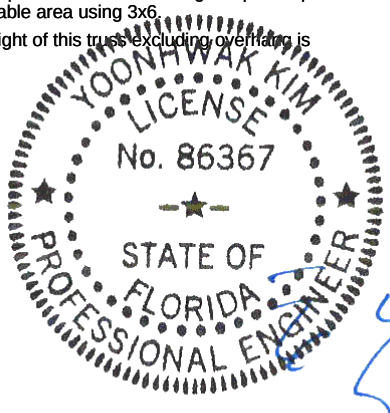
Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
See DWGS A14015ENC160118 & 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 4-4-4.



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09/29/2020

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ALPINE
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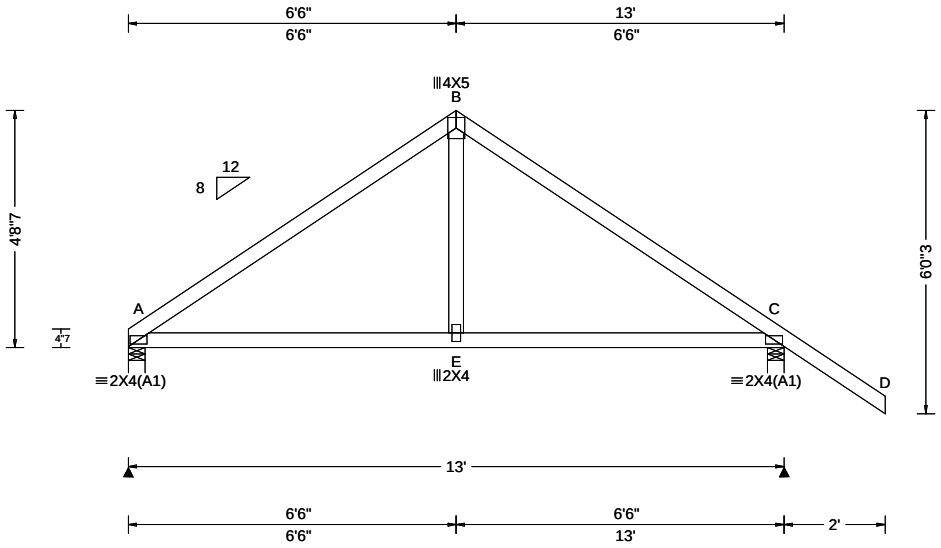
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336921 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 20-4327 Otero **Truss Label:** B02	Cust: R 215 JRef:1WZ32150005 T4 DrwNo: 273.20.1420.12253 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	E	999	240
VERT(CL): 0.012	E	999	180
HORZ(LL): 0.005	E	-	-
HORZ(TL): 0.011	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.486
Max BC CSI: 0.174
Max Web CSI: 0.112

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	534	/-	/-	/321	/80	/165
C	696	/-	/-	/449	/122	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	315	-629	B - C	307	-636

Maximum Bot Chord Forces Per Ply (lbs)

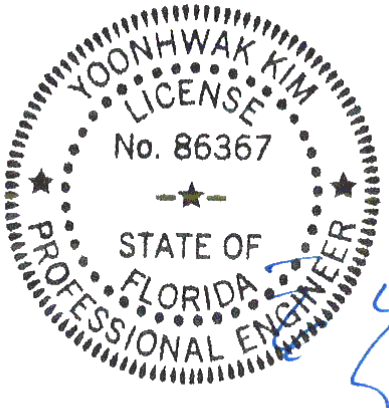
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	441	-49	E - C	441	-49

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 4-8-7.



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09/29/2020

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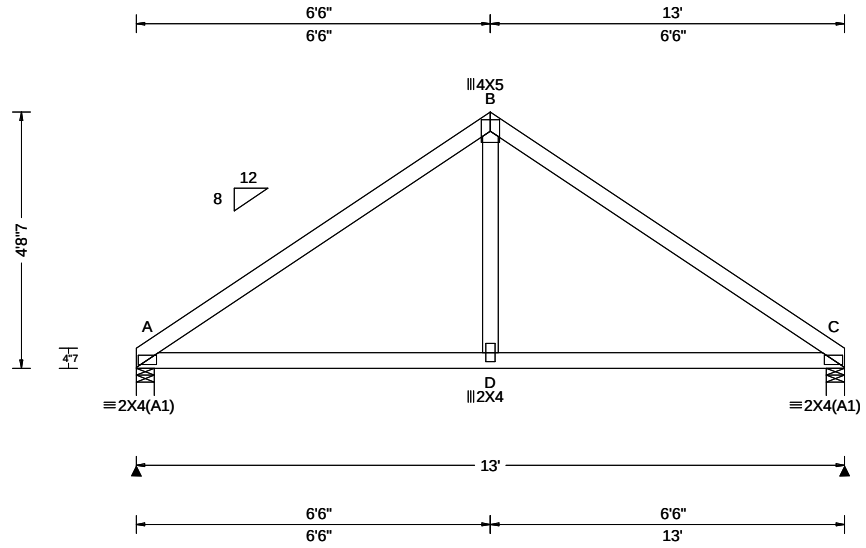
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336922 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4327 Otero **Truss Label:** B03	Cust: R 215 JRef:1WZ32150005 T6 DrwNo: 273.20.1420.13283 / YK 09/29/2020	



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	D	999	240
VERT(CL): 0.010	D	999	180
HORZ(LL): 0.005	D	-	-
HORZ(TL): 0.010	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.447
Max BC CSI: 0.179
Max Web CSI: 0.115

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	546	/-	/-	/321	/84	/119
C	546	/-	/-	/321	/84	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	-659	B - C	205	-659

Maximum Bot Chord Forces Per Ply (lbs)

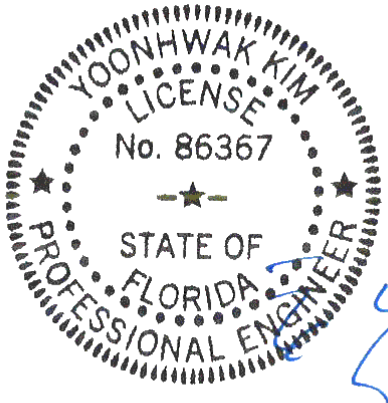
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - D	467	-59	D - C	467	-59

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 4-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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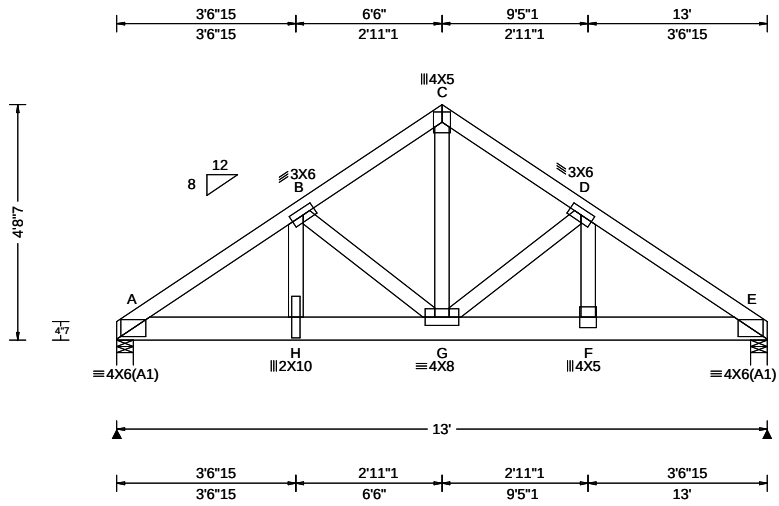
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336965 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** B04	Cust: R 215 JRef:1WZ32150005 T11 DrwNo: 273.20.1420.14470 / YK 09/29/2020	

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.045	G	999	240
VERT(CL): 0.089	G	999	180
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.028	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.277
Max BC CSI: 0.333
Max Web CSI: 0.829

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4636	/-	/-	/-	/690	/-
E	3960	/-	/-	/-	/597	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.9
E Brg Width = 4.0 Min Req = 1.6
Bearings A & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	447	- 2963	C - D	316	- 2087
B - C	316	- 2088	D - E	441	- 2926

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	2447	- 364	G - F	2386	- 356
H - G	2421	- 361	F - E	2411	- 359

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	978	- 125	G - D	131	- 865
B - G	137	- 911	D - F	938	- 119
C - G	2175	- 305			

Lumber

Value Set: NDS 2015

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: 2 Rows @ 5.50" o.c. (Each Row)
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 64 plf at 0.00 to 64 plf at 13.00
BC: From 10 plf at 0.00 to 10 plf at 13.00
BC: 1272 lb Conc. Load at 0.94, 2.94, 4.94, 6.94 8.94,10.94

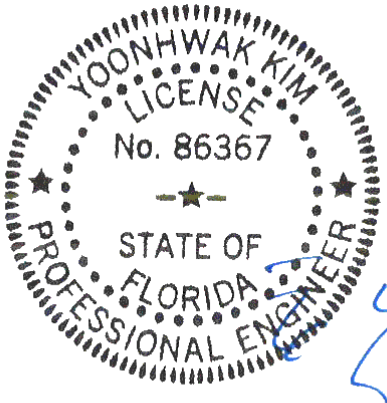
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-8-7.



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09/29/2020

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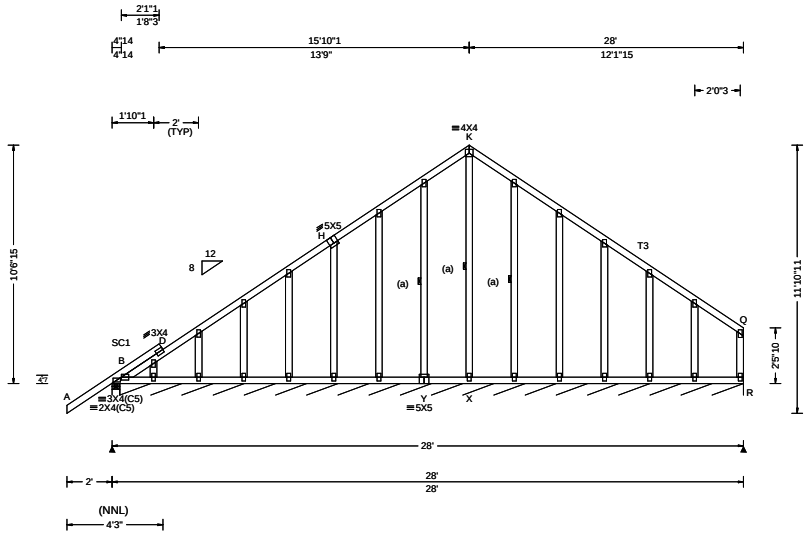
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336923 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** C01	Cust: R 215 JRef:1WZ32150005 T9 DrwNo: 273.20.1420.22627 / YK 09/29/2020



Loading Criteria (psf)

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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	K	999	240
VERT(CL): 0.012	K	999	180
HORZ(LL): 0.025	Q	-	-
HORZ(TL): 0.036	Q	-	-

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.028
Max Web CSI: 0.358

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	672	/-	/-	/403	/392	/508
R*	151	/-	/-	/75	/-	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
R Brg Width = 332 Min Req = -
Bearings B & B are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - D	426	- 218	H - K	854	- 311
B - D	550	- 209	K - Q	776	- 289
D - H	856	- 317			

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
K - X	229	- 831

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T3 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

Right end vertical not exposed to wind pressure.

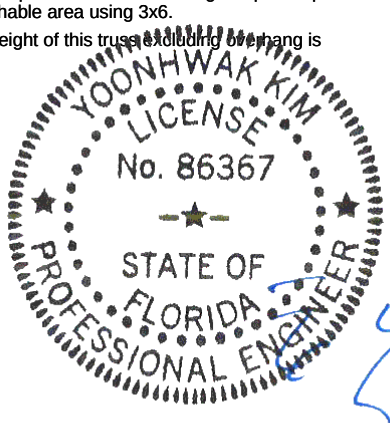
Wind loading based on gable roof types.

Additional Notes

See DWGS A14015ENC160118 & 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 10-6-15.



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09/29/2020

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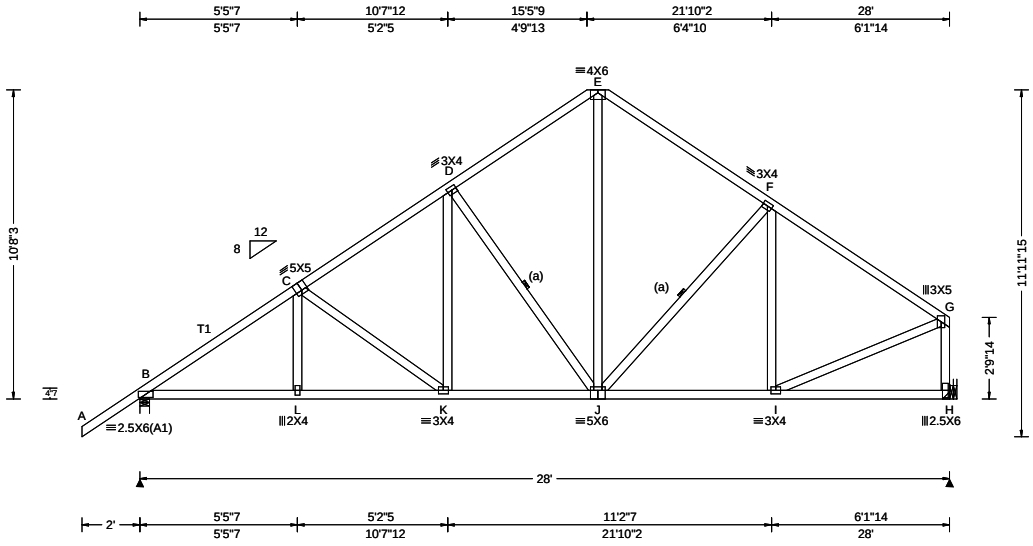
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336924 COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4327 Otero **Truss Label:** C02	Cust: R 215 JRef:1WZ32150005 T7 DrwNo: 273.20.1420.23993 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	K	999	240
VERT(CL): 0.102	K	999	180
HORZ(LL): 0.017	H	-	-
HORZ(TL): 0.034	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.415
Max BC CSI: 0.247
Max Web CSI: 0.651

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1404	/-	/-	/830	/208	/307
H	1272	/-	/-	/650	/175	/-

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#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	428	- 1863	E - F	429	- 1140
C - D	437	- 1537	F - G	331	- 1278
D - E	429	- 1115			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - L	1465	- 370	K - J	1194	- 224
L - K	1464	- 371	J - I	994	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - D	376	- 60	I - G	1052	- 188
D - J	272	- 578	G - H	321	- 1228
E - J	786	- 301			

Lumber

Value Set: NDS 2015

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

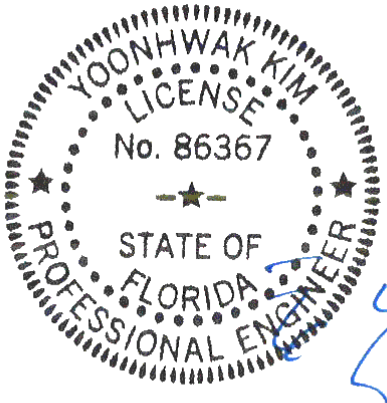
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 10-8-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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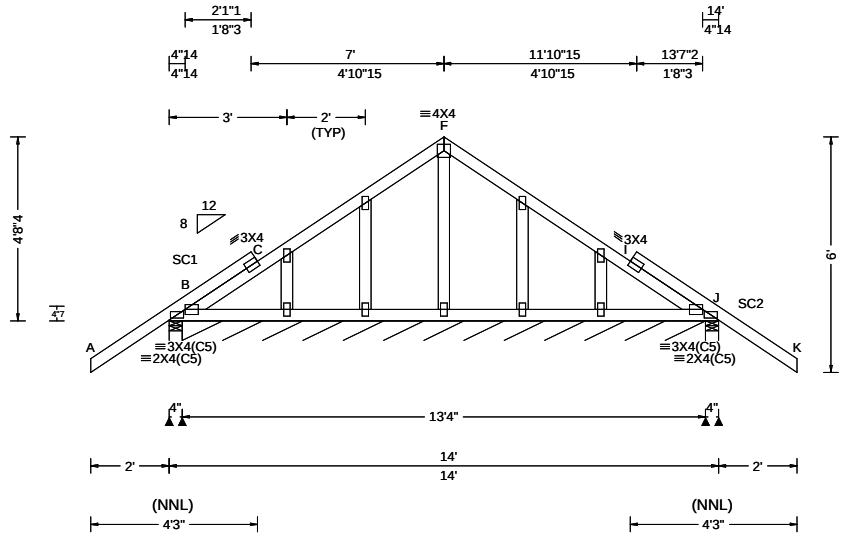
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336925 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** D01	Cust: R 215 JRef:1WZ32150005 T12 DrwNo: 273.20.1420.25297 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	C	999	240
VERT(CL): 0.006	C	999	180
HORZ(LL): 0.002	C	-	-
HORZ(TL): 0.003	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.860
Max BC CSI: 0.044
Max Web CSI: 0.078

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	682	/-	/-	/477	/206	/142
B*	104	/-	/-	/60	/-	/-
J	682	/-	/-	/492	/206	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
B Brg Width = 160 Min Req = -
J Brg Width = 4.0 Min Req = 1.5
Bearings B, B, & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	529	- 293	I - J	340	- 465

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - J	499	- 70

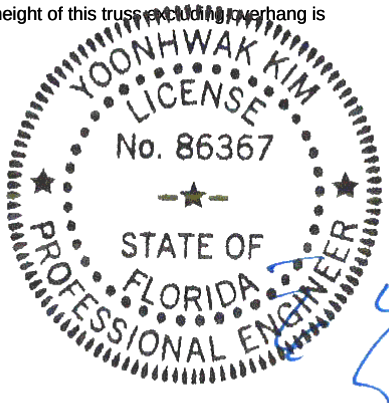
Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
See DWGS A14015ENC160118 & 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 4-8-4.



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09/29/2020

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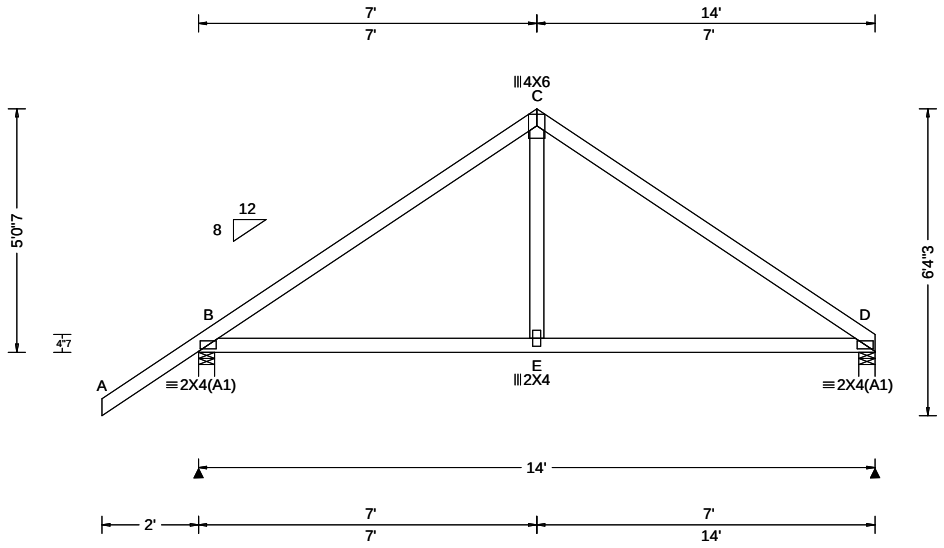
Suite 305
Orlando FL, 32821

SEQN: 336926 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** D02	Cust: R 215 JRef:1WZ32150005 T10 DrwNo: 273.20.1420.25993 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	E	999	240
VERT(CL): 0.015	E	999	180
HORZ(LL): 0.005	E	-	-
HORZ(TL): 0.009	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.526
Max BC CSI: 0.205
Max Web CSI: 0.122

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	737	/-	/-	/473	/128	/174
D	577	/-	/-	/346	/87	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	318	-692	C - D	326	-686

Maximum Bot Chord Forces Per Ply (lbs)

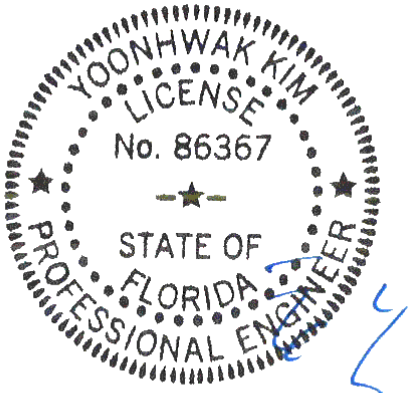
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - E	482	-125	E - D	482	-125

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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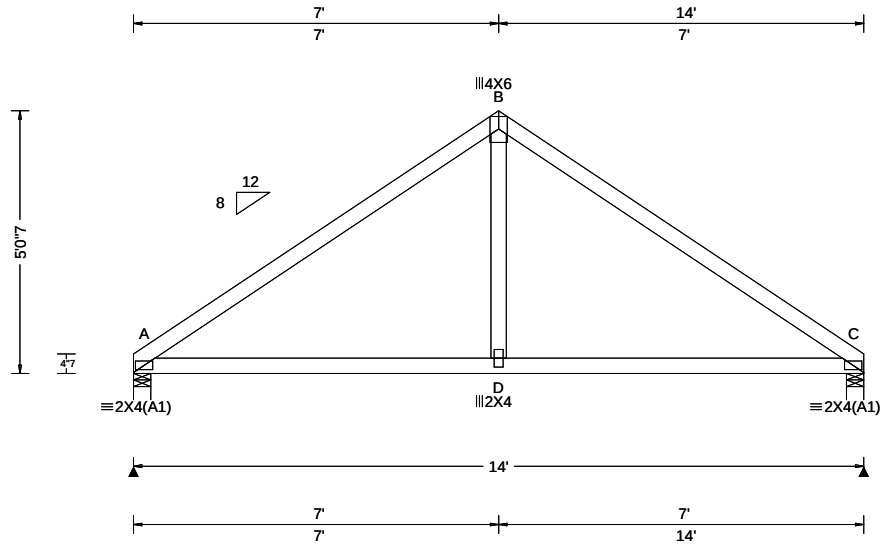
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336927 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** D03	Cust: R 215 JRef:1WZ32150005 T13 DrwNo: 273.20.1420.26610 / YK 09/29/2020	



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	D	999	240
VERT(CL): 0.013	D	999	180
HORZ(LL): 0.006	D	-	-
HORZ(TL): 0.012	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.531
Max BC CSI: 0.210
Max Web CSI: 0.124

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	588	/-	/-	/345	/91	/128
C	588	/-	/-	/345	/91	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	204	-714	B - C	204	-714

Maximum Bot Chord Forces Per Ply (lbs)

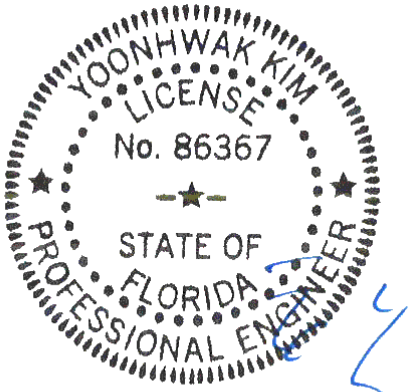
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - D	506	-54	D - C	506	-54

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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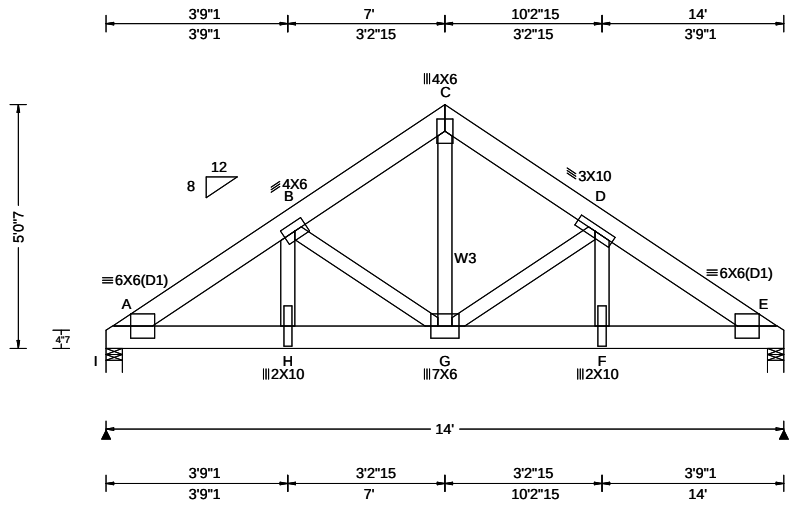
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336966 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** D04	Cust: R 215 JRef:1WZ32150005 T16 DrwNo: 273.20.1420.27527 / YK 09/29/2020	

2 Complete Trusses Required



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.048	G	999	240
VERT(CL): 0.096	G	999	180
HORZ(LL): 0.020	F	-	-
HORZ(TL): 0.040	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.183
Max BC CSI: 0.486
Max Web CSI: 0.704

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	5701	/-	/-	/-	/188	/-
E	5796	/-	/-	/-	/190	/-

Wind reactions based on MWFRS
I Brg Width = 4.0 Min Req = 2.4
E Brg Width = 4.0 Min Req = 2.4
Bearings I & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	140	-4375	C - D	101	-3047
B - C	101	-3046	D - E	141	-4390

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	3640	-111	G - F	3643	-111
H - G	3628	-111	F - E	3654	-111

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	1466	-10	G - D	43	-1355
B - G	43	-1337	D - F	1480	-10
C - G	3119	-61			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3 2x4 SP #2;

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
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	64 plf at	0.16 to	64 plf at	13.84
BC: From	70 plf at	0.00 to	70 plf at	0.16
BC: From	10 plf at	0.16 to	10 plf at	13.84
BC: From	70 plf at	13.84 to	70 plf at	14.00

BC: 1744 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,12.06

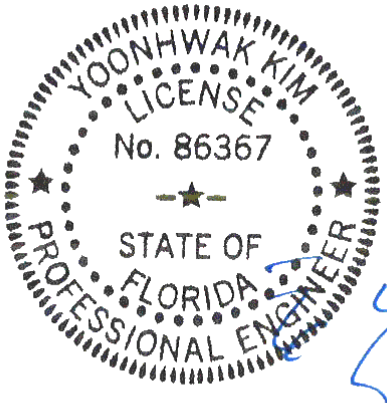
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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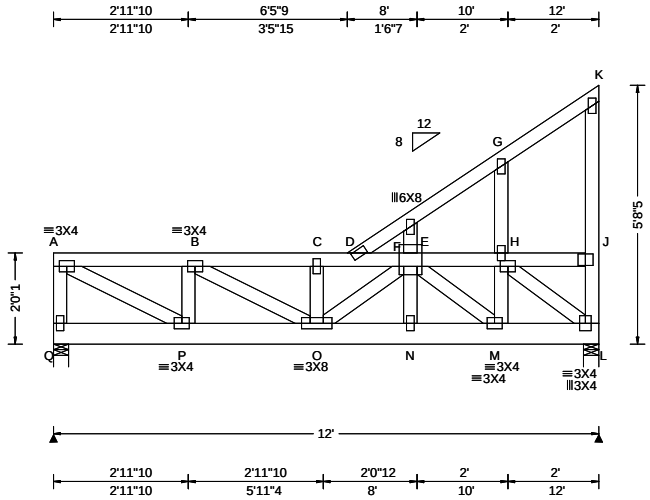
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336967 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G01	Cust: R 215 JRef:1WZ32150005 T19 DrwNo: 273.20.1420.28240 / YK 09/29/2020	

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	C	999	240
VERT(CL): 0.020	C	999	180
HORZ(LL): -0.007	K	-	-
HORZ(TL): 0.014	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.037
Max BC CSI: 0.049
Max Web CSI: 0.174

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	548	/-	/-	/-	/112	/-
L	555	/-	/-	/-	/115	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	82	-397	C - D	114	-548
B - C	114	-548	D - F	113	-544

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	421	-89	N - M	496	-104
O - N	496	-104			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - P	456	-94	H - L	82	-393

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

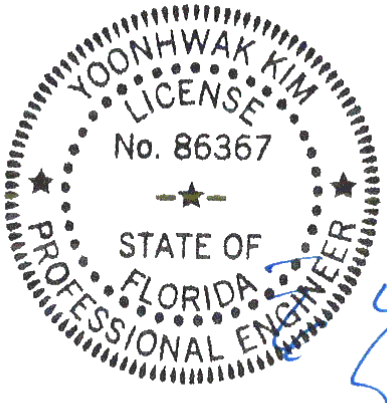
Nailnote
Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 32 plf at 0.00 to 32 plf at 11.71
TC: From 64 plf at 11.71 to 64 plf at 12.00
BC: From 10 plf at 0.00 to 10 plf at 12.00
BC: 118 lb Conc. Load at 2.06, 4.06, 5.94, 7.94 9.94

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads and reactions based on MWFRS.
End verticals not exposed to wind pressure.
Wind loading based on gable roof types.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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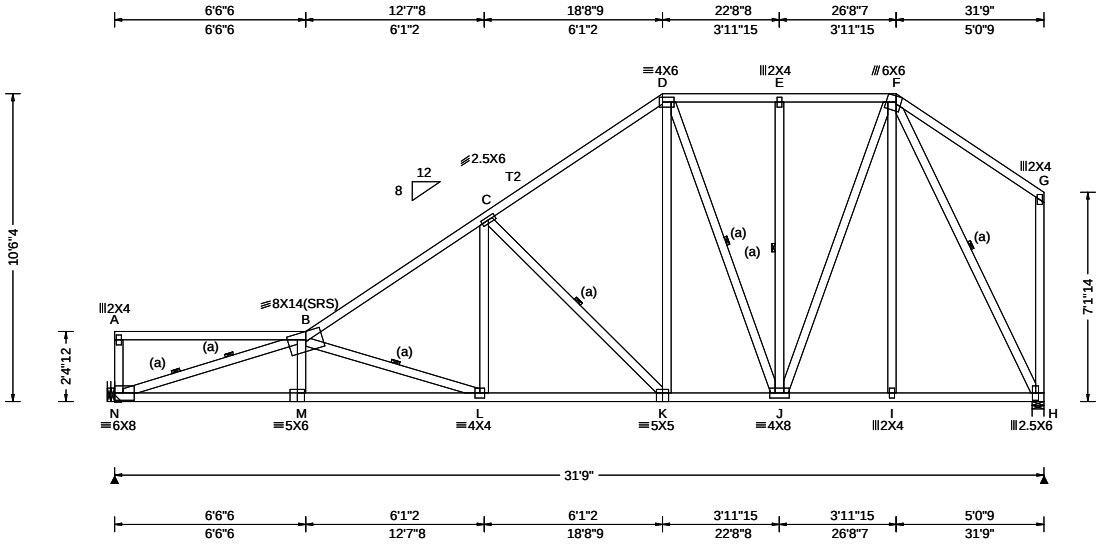
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336928 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G02		Cust: R 215 JRef:1WZ32150005 T23 DrwNo: 273.20.1420.29477 / YK 09/29/2020	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.17 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	B	999	240
VERT(CL): 0.369	B	999	180
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.084	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.582
Max BC CSI: 0.429
Max Web CSI: 0.998

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1446	/-	/-	/748	/206	/217
H	1599	/-	/-	/735	/250	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	761	- 2446	D - E	511	- 1007
C - D	604	- 1543	E - F	511	- 1007

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3732	- 1445	K - J	1186	- 421
M - L	3725	- 1451	J - I	681	- 218
L - K	1922	- 734	I - H	678	- 219

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	1269	- 3878	D - K	937	- 264
B - L	753	- 1882	D - J	165	- 494
L - C	843	- 196	J - F	892	- 392
C - K	448	- 1054	F - H	494	- 1529

Lumber

Value Set: NDS 2015

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

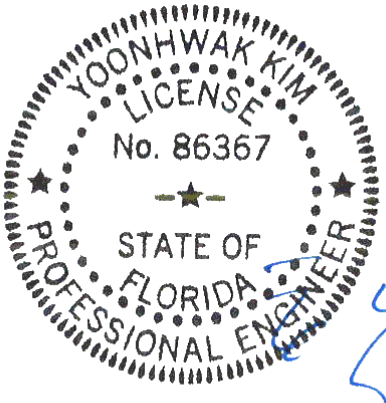
End verticals not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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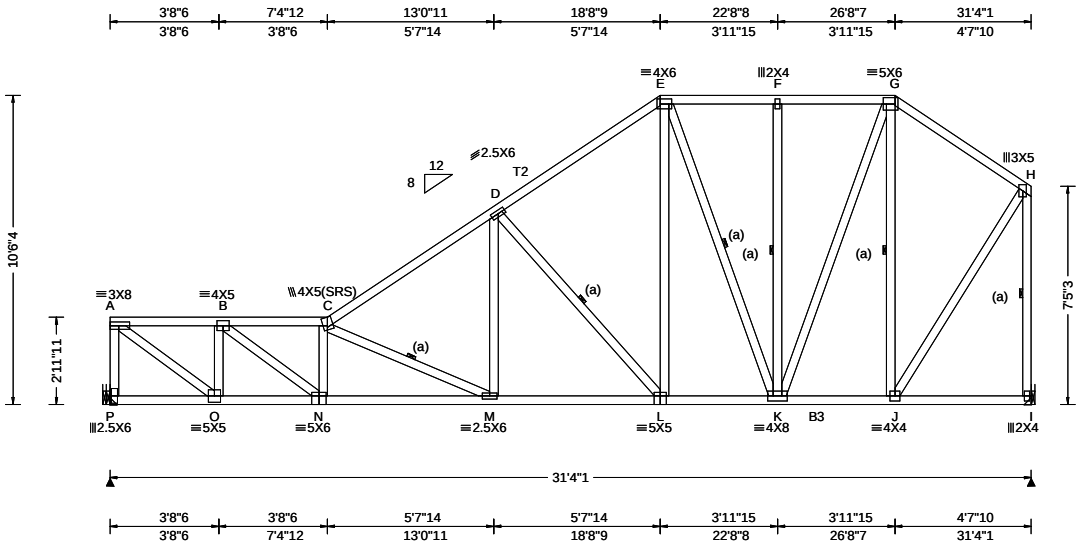
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336929 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G03	Cust: R 215 JRef:1WZ32150005 T37 DrwNo: 273.20.1420.30553 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.75 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.13 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.139	M	999	240
VERT(CL): 0.265	M	999	180
HORZ(LL): 0.044	A	-	-
HORZ(TL): 0.085	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.319
Max BC CSI: 0.867
Max Web CSI: 0.803

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
P	1412	/-	/-		/733	/146	/205
I	1480	/-	/-		/741	/51	/-

Wind reactions based on MWFRS
P Brg Width = - Min Req = -
I Brg Width = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	356	-1688	E - F	135	-933
B - C	472	-2972	F - G	135	-933
C - D	249	-2264	G - H	85	-792
D - E	180	-1463			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1818	-557	L - K	1125	-82
N - M	3067	-652	K - J	601	-7
M - L	1786	-292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - P	361	-1377	D - L	321	-1011
A - O	2107	-442	E - L	944	-191
O - B	305	-1200	E - K	171	-530
B - N	1494	-107	K - G	911	-35
N - C	117	-882	G - J	62	-761
C - M	396	-1394	J - H	1100	-13
M - D	811	-112	H - I	99	-1447

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x4 SP #2; B3 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

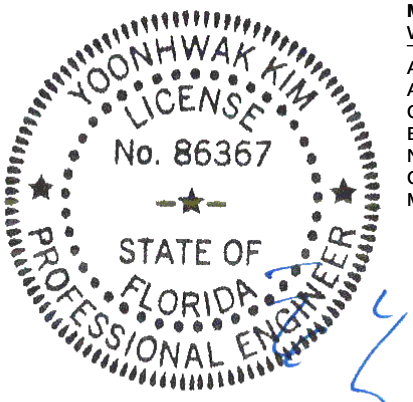
End verticals not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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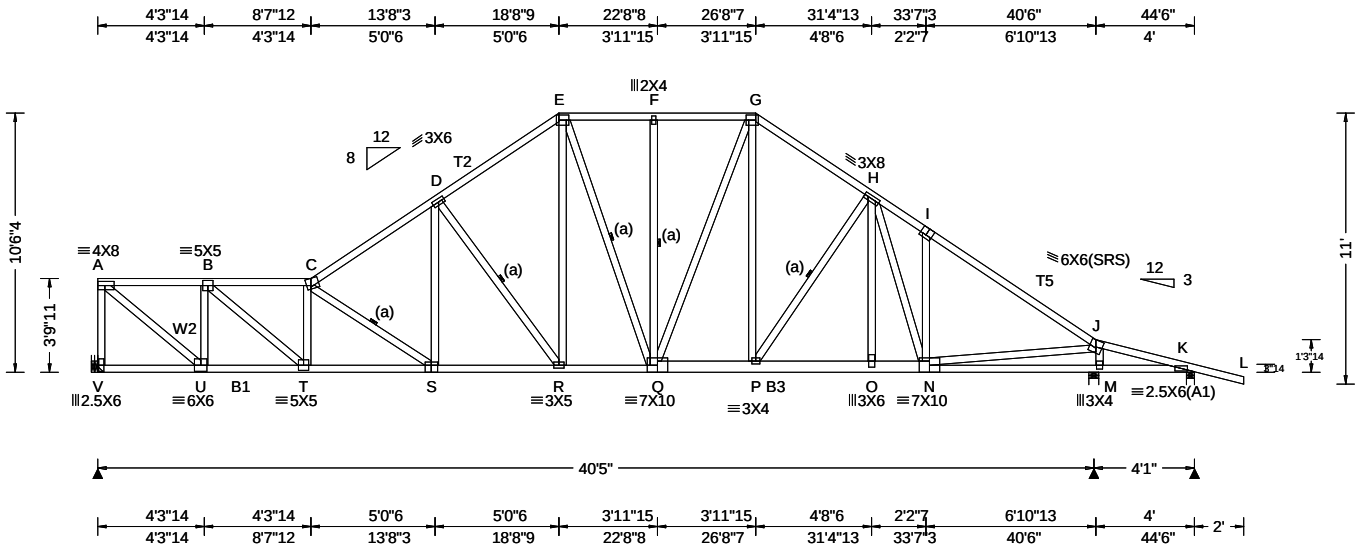
Orlando FL, 32821

SEQN: 336974 COMN FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G04		Cust: R 215 JRef:1WZ32150005 T31 DrwNo: 273.20.1420.31693 / YK 09/29/2020	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.209 S 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.404 S 999 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.064 A - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.124 A - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.538
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.941
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.843
		C&C Dist a: 4.45 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 6.50 ft	Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	1954	/-	/-	/-	/301	/-
M	2470	/-	/-	/-	/326	/-
K	362	/-	/-	/-	/103	/-

Wind reactions based on MWFRS
V Brg Width = - Min Req = -
M Brg Width = 4.9 Min Req = 2.5
K Brg Width = 4.0 Min Req = 1.5
Bearings M & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	323	- 2146	F - G	306	- 2207
B - C	565	- 3857	G - H	375	- 2631
C - D	516	- 3494	H - I	432	- 3181
D - E	399	- 2701	I - J	451	- 3235
E - F	307	- 2210			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
U - T	2288	- 350	Q - P	2121	- 287
T - S	3969	- 585	P - O	2597	- 337
S - R	2815	- 403	O - N	2595	- 337
R - Q	2166	- 303	N - M	815	- 131

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - V	318	- 1916	D - R	171	- 1111
A - U	2796	- 421	E - R	1055	- 88
U - B	317	- 1710	G - P	890	- 30
B - T	2116	- 290	P - H	88	- 841
T - C	244	- 1356	O - H	806	- 34
C - S	221	- 1383	N - J	2213	- 276
S - D	986	- 76	J - M	406	- 2450

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T2,T5 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	61 plf at	0.00 to	61 plf at	8.65	
TC: From	64 plf at	8.65 to	64 plf at	18.72	
TC: From	61 plf at	18.72 to	61 plf at	26.70	
TC: From	64 plf at	26.70 to	64 plf at	40.50	
TC: From	61 plf at	40.50 to	61 plf at	46.50	
BC: From	20 plf at	0.00 to	20 plf at	13.83	
BC: From	60 plf at	13.83 to	60 plf at	15.95	
BC: From	20 plf at	15.95 to	20 plf at	19.01	
BC: From	60 plf at	19.01 to	60 plf at	21.06	
BC: From	20 plf at	21.06 to	20 plf at	24.19	
BC: From	60 plf at	24.19 to	60 plf at	26.41	
BC: From	20 plf at	26.41 to	20 plf at	44.50	
BC: From	4 plf at	44.50 to	4 plf at	46.50	

BC: 731 lb Conc. Load at 31.40

Plating Notes

All plates are 5X6 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

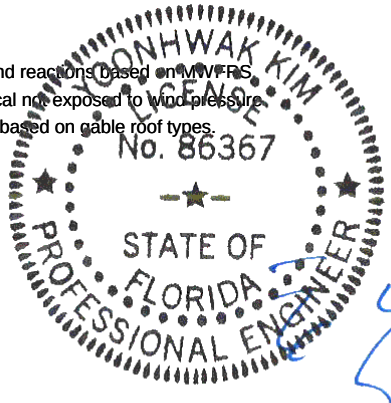
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

Wind loads and reactions based on MWFRS.

Left end vertical not exposed to wind pressure.

Wind loading based on gable roof types.



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09/29/2020

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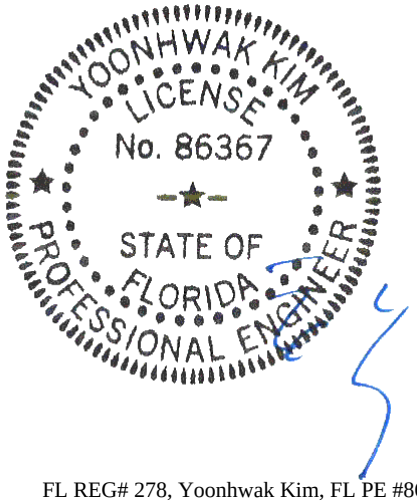
Suite 305
Orlando FL, 32821

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



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09/29/2020

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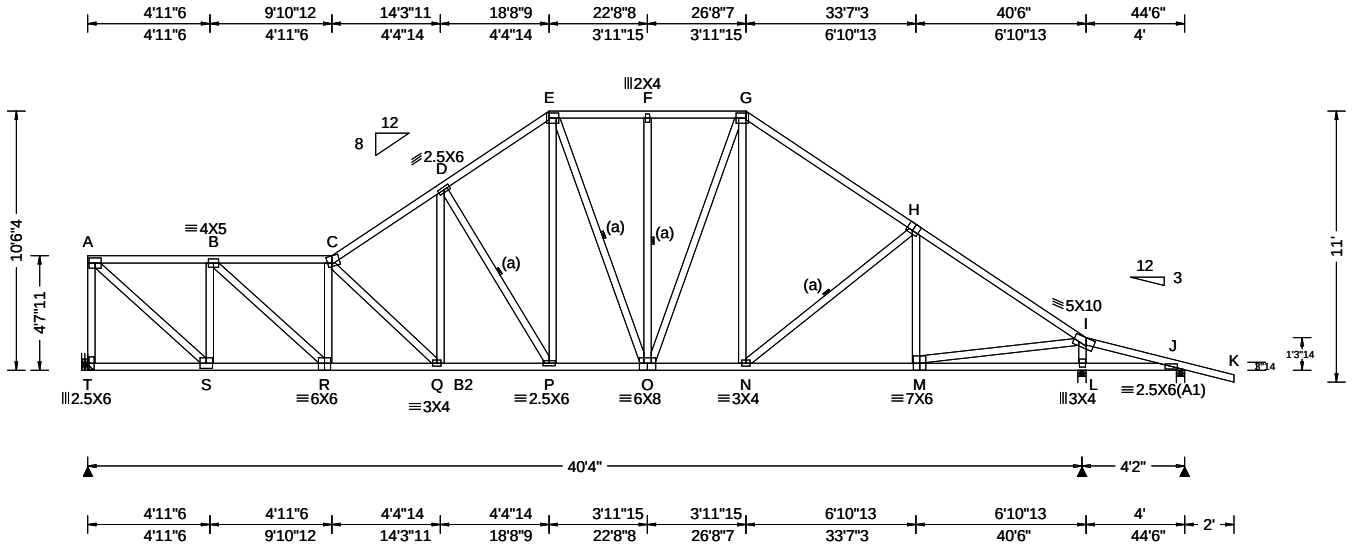
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336930 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G05	Cust: R 215 JRef:1WZ32150005 T30 DrwNo: 273.20.1420.32800 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.45 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.179	Q	999	240
VERT(CL): 0.342	Q	999	180
HORZ(LL): 0.058	A	-	-
HORZ(TL): 0.112	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.594
Max BC CSI: 0.662
Max Web CSI: 0.895

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1741	/-	/-	/885	/299	/288
L	2025	/-	/-	/1106	/313	/-
J	308	/-	/-	/149	/104	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	576	- 1742	E - F	686	- 1796
B - C	919	- 3007	F - G	686	- 1796
C - D	867	- 2858	G - H	686	- 2128
D - E	775	- 2256	H - I	598	- 2400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1840	- 438	P - O	1808	- 292
R - Q	3076	- 765	O - N	1660	- 239
Q - P	2297	- 474	N - M	1909	- 352

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	614	- 1701	Q - D	852	- 241
A - S	2350	- 778	D - P	357	- 956
S - B	578	- 1470	E - P	972	- 263
B - R	1620	- 422	G - N	404	- 43
R - C	340	- 1040	M - I	2138	- 490
C - Q	404	- 1077	L - I	551	- 1936

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 5X6 except as noted.

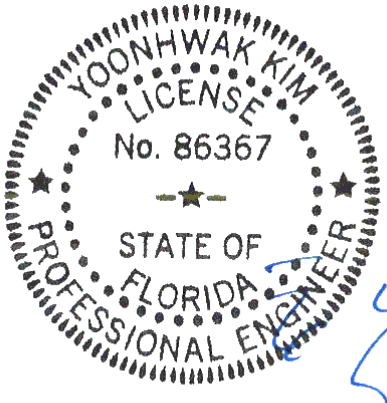
Hangers / Ties
(J) Hanger Support Required, by others

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on gable roof types.

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 10-6-4.



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09/29/2020

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Suite 305
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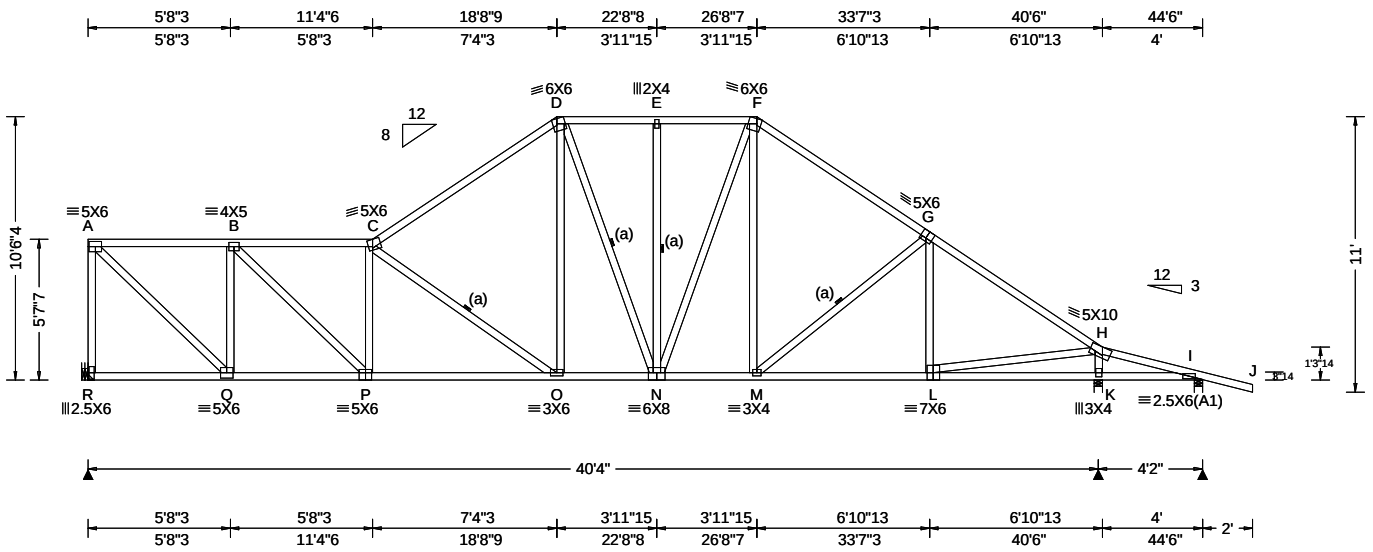
SEQN: 336931 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G06	Cust: R 215 JRef:1WZ32150005 T29 DrwNo: 273.20.1420.33743 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.45 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.165	C	999	240
VERT(CL): 0.316	C	999	180
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.113	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.943
Max BC CSI: 0.813
Max Web CSI: 0.948

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	1737	/-	/-	/865	/305	/284
K	2022	/-	/-	/1110	/309	/-
I	309	/-	/-	/150	/104	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	555	- 1607	E - F	693	- 1790
B - C	876	- 2729	F - G	694	- 2126
C - D	757	- 2320	G - H	605	- 2399
D - E	693	- 1791			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1685	- 375	N - M	1659	- 245
P - O	2780	- 683	M - L	1908	- 358
O - N	1823	- 308			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	633	- 1691	C - O	463	- 1180
A - Q	2230	- 771	D - O	882	- 204
Q - B	593	- 1429	F - M	407	- 42
B - P	1488	- 411	L - H	2130	- 495
P - C	362	- 934	K - H	549	- 1933

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

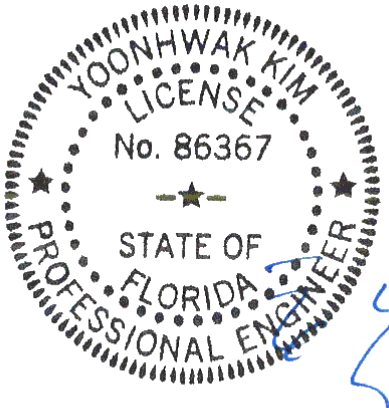
Hangers / Ties
(J) Hanger Support Required, by others

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on gable roof types.

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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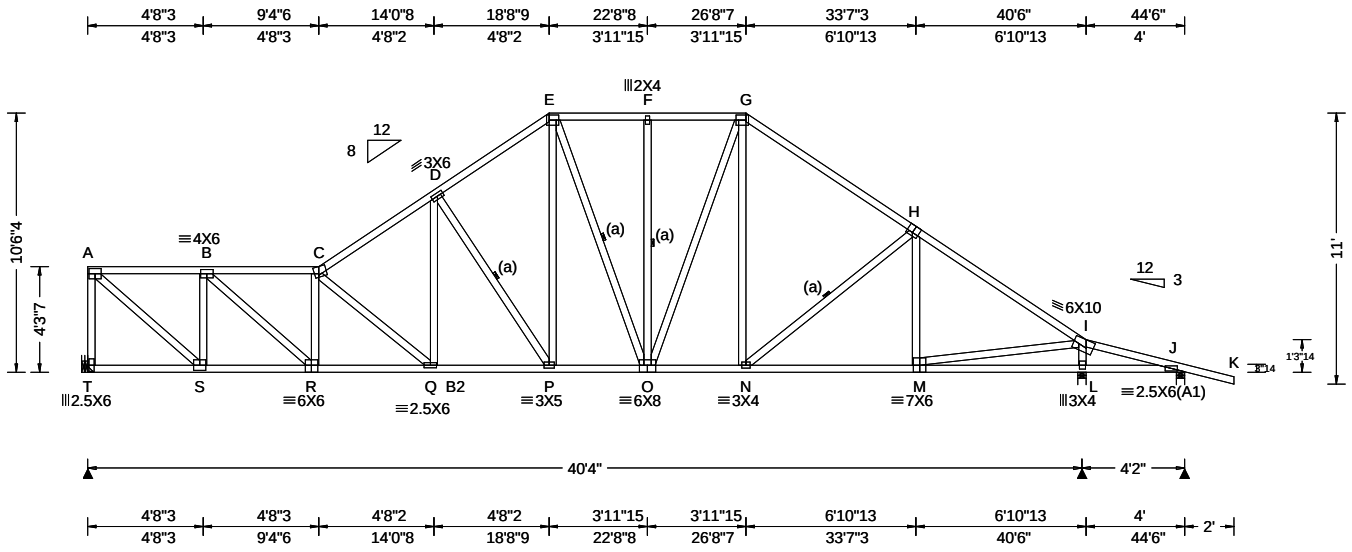
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336932 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G07		Cust: R 215 JRef:1WZ32150005 T28 DrwNo: 273.20.1420.34950 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.45 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.194	Q	999	240
VERT(CL): 0.364	Q	999	180
HORZ(LL): 0.062	A	-	-
HORZ(TL): 0.116	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.602
Max BC CSI: 0.671
Max Web CSI: 0.939

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1793	/-	/-	/893	/297	/290
L	2061	/-	/-	/1106	/314	/-
J	305	/-	/-	/148	/104	/-

Wind reactions based on MWFRS
T Brg Width = - Min Req = -
L Brg Width = 4.0 Min Req = 2.1
J Brg Width = 4.0 Min Req = 1.5
Bearings L & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	585	- 1857	E - F	684	- 1849
B - C	946	- 3259	F - G	684	- 1849
C - D	866	- 3036	G - H	684	- 2177
D - E	770	- 2344	H - I	596	- 2442

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1969	- 463	P - O	1876	- 290
R - Q	3342	- 807	O - N	1701	- 237
Q - P	2439	- 485	N - M	1944	- 351

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	607	- 1753	D - P	359	- 1037
A - S	2465	- 775	E - P	1048	- 256
S - B	565	- 1531	O - G	406	- 151
B - R	1771	- 438	G - N	401	- 43
R - C	348	- 1140	M - I	2191	- 490
C - Q	421	- 1166	L - I	552	- 1971
Q - D	930	- 228			

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;

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

Plating Notes
All plates are 5X6 except as noted.

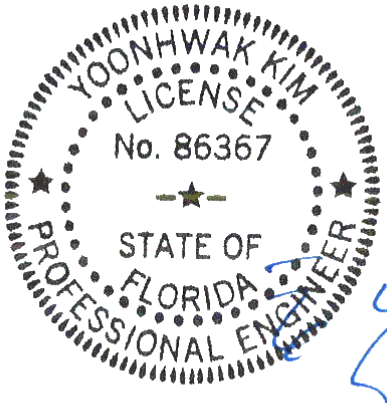
Hangers / Ties
(J) Hanger Support Required, by others

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on gable roof types.

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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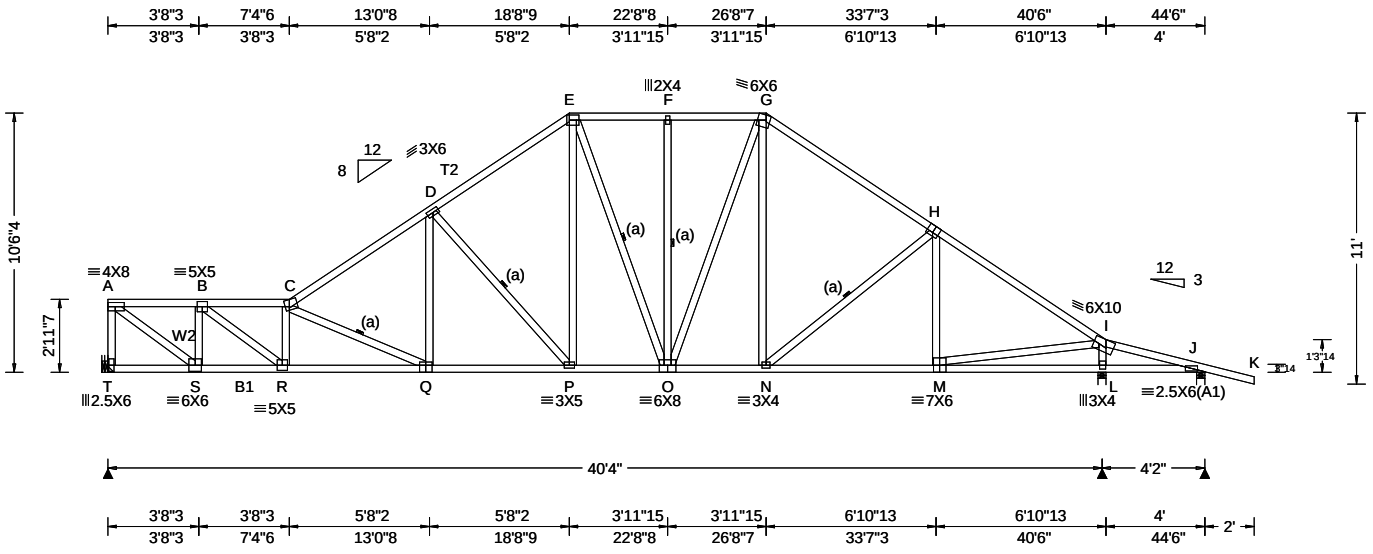
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336933 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G08		Cust: R 215 JRef:1WZ32150005 T27 DrwNo: 273.20.1420.35997 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
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: 4.45 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.215	Q	999	240
VERT(CL): 0.404	Q	999	180
HORZ(LL): 0.062	A	-	-
HORZ(TL): 0.116	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.599
Max BC CSI: 0.769
Max Web CSI: 0.849

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1803	/-	/-	/923	/49	/295
L	2075	/-	/-	/1105	/29	/-
J	298	/-	/-	/144	/104	/-

Wind reactions based on MWFRS
T Brg Width = - Min Req = -
L Brg Width = 4.0 Min Req = 2.1
J Brg Width = 4.0 Min Req = 1.5
Bearings L & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	645	- 2221	E - F	674	- 1849
B - C	1095	- 4051	F - G	674	- 1849
C - D	861	- 3268	G - H	674	- 2176
D - E	747	- 2372	H - I	588	- 2436

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2394	- 588	P - O	1880	- 278
R - Q	4194	- 1022	O - N	1700	- 229
Q - P	2619	- 518	N - M	1939	- 343

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	564	- 1768	D - P	367	- 1126
A - S	2770	- 803	E - P	1033	- 225
S - B	520	- 1594	O - G	407	- 144
B - R	2143	- 508	G - N	398	- 35
R - C	379	- 1305	M - I	2229	- 487
C - Q	552	- 1712	L - I	549	- 1985
Q - D	946	- 180			

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3; W2 2x4 SP #2;

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

Plating Notes
All plates are 5X6 except as noted.

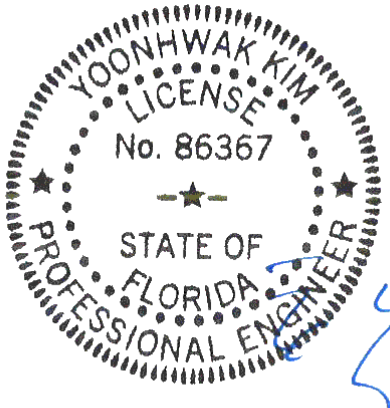
Hangers / Ties
(J) Hanger Support Required, by others

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Wind loading based on gable roof types.

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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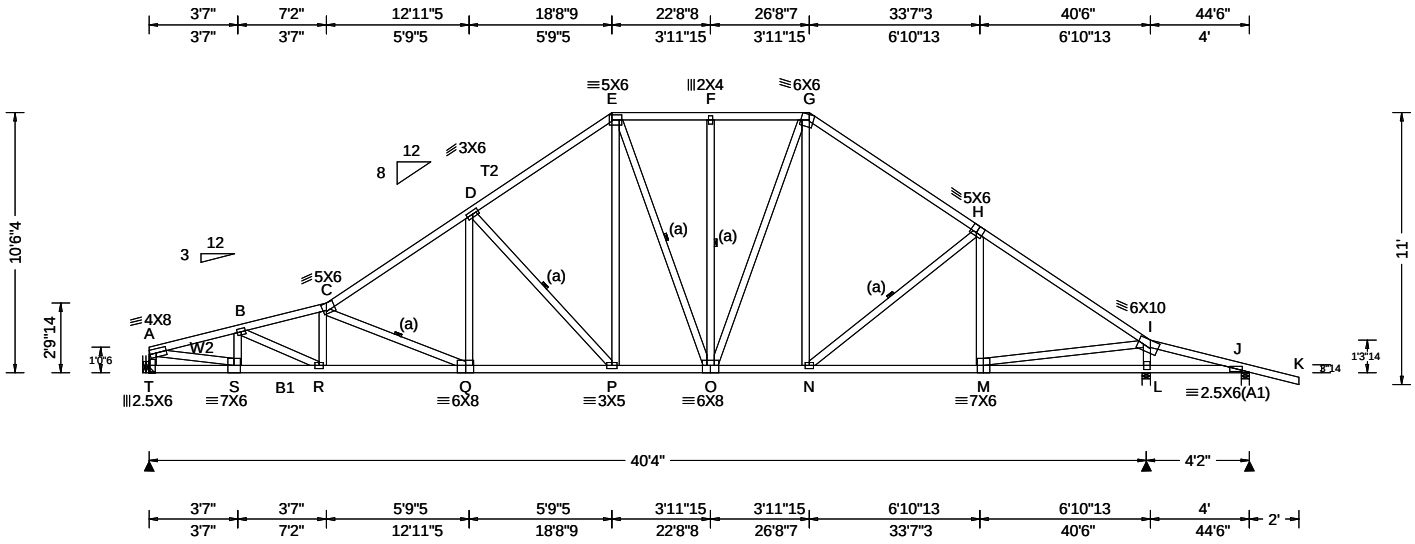
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336934 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G09	Cust: R 215 JRef:1WZ32150005 T25 DrwNo: 273.20.1420.36957 / YK 09/29/2020	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
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: 4.45 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.232	Q	999	240
VERT(CL): 0.436	Q	999	180
HORZ(LL): 0.063	L	-	-
HORZ(TL): 0.118	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.596
Max BC CSI: 0.776
Max Web CSI: 0.861

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1803	/-	/-	/929	/28	/279
L	2086	/-	/-	/1102	/31	/-
J	293	/-	/-	/141	/103	/-

Wind reactions based on MWFRS
T Brg Width = - Min Req = -
L Brg Width = 4.0 Min Req = 2.1
J Brg Width = 4.0 Min Req = 1.5
Bearings L & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	847	- 3689	E - F	657	- 1847
B - C	1051	- 4456	F - G	657	- 1847
C - D	815	- 3292	G - H	659	- 2173
D - E	722	- 2372	H - I	573	- 2429

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	3662	- 796	P - O	1879	- 258
R - Q	4335	- 943	O - N	1698	- 216
Q - P	2635	- 484	N - M	1933	- 331

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - T	401	- 1748	D - P	340	- 1135
A - S	3580	- 813	E - P	1031	- 201
S - B	213	- 719	O - G	407	- 134
B - R	725	- 183	G - N	395	- 38
C - Q	497	- 1827	M - I	2259	- 475
Q - D	951	- 142	L - I	526	- 1994

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3; W2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

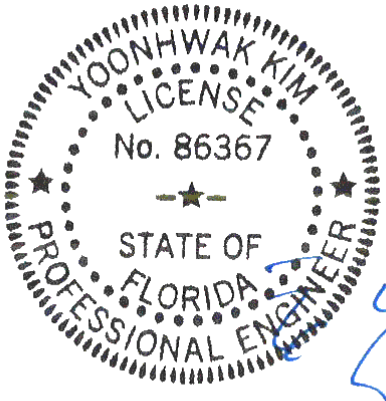
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on gable roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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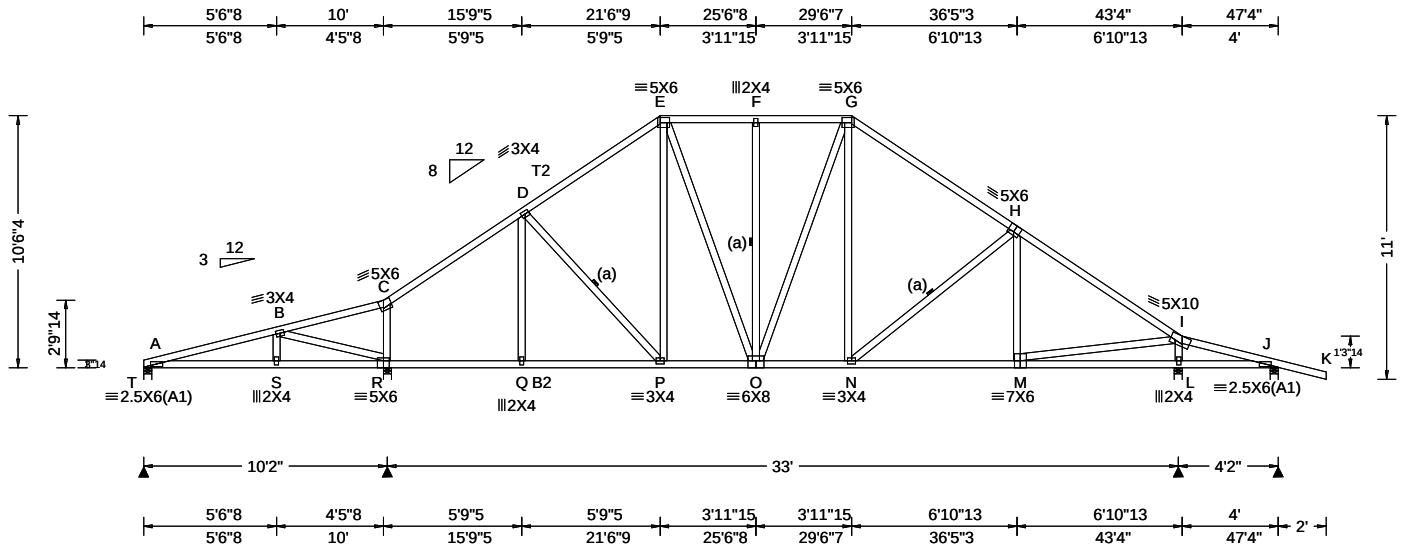
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336935 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G10		Cust: R 215 JRef:1WZ32150005 T26 DrwNo: 273.20.1420.37853 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
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: 4.73 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.118	P	999	240
VERT(CL): 0.217	P	999	180
HORZ(LL): 0.056	L	-	-
HORZ(TL): 0.103	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.581
Max BC CSI: 0.989
Max Web CSI: 0.713

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

Loc	R+	Gravity / R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
T	841	/-	/-	/395	/3	/287
R	1525	/-	/-	/771	/41	/-
L	1850	/-	/-	/996	/22	/-
J	319	/-	/-	/161	/102	/-

Wind reactions based on MWFRS

T	Brg Width = 4.0	Min Req =	1.5
R	Brg Width = 4.0	Min Req =	1.5
L	Brg Width = 4.0	Min Req =	1.8
J	Brg Width = 4.0	Min Req =	1.5

Bearings T, R, L, & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	406	-2441	E - F	568	-1544
B - C	361	-1930	F - G	568	-1544
C - D	533	-2337	G - H	577	-1896
D - E	588	-1915	H - I	507	-2206

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - S	2337	-344	P - O	1505	-145
S - R	2334	-349	O - N	1468	-146
R - Q	1861	-247	N - M	1743	-273
Q - P	1859	-247			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	107	-620	G - N	429	-46
C - R	354	-1136	M - I	1871	-364
D - P	159	-531	L - I	472	-1764
E - P	584	-72			

Lumber

Value Set: NDS 2015

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

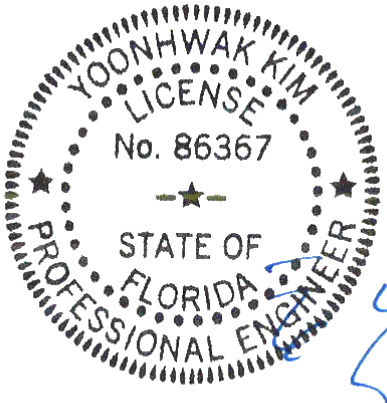
Wind loading based on gable roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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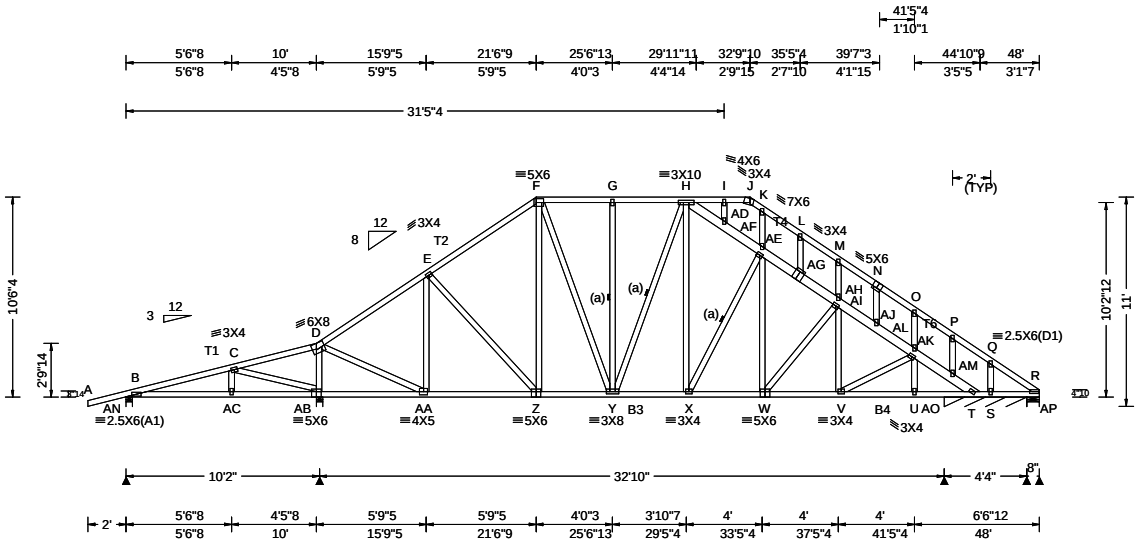
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336936 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G11	Cust: R 215 JRef:1WZ32150005 T18 DrwNo: 273.20.1420.39050 / YK 09/29/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.053 X 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.101 X 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.029 Q - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.056 Q - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.229
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.462
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.638
	C&C Dist a: 4.80 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AN	442	/-	/-	/190	/119	/301
AB	2152	/-	/-	/1190	/34	/-
AO	*329	/-	/-	/212	/28	/-
AP	361	/-	/-	/197	/-	/-

Wind reactions based on MWFRS
AN Brg Width = 4.0 Min Req = 1.5
AB Brg Width = 4.0 Min Req = 2.5
AO Brg Width = 52.0 Min Req = -
AP Brg Width = 8.0 Min Req = 1.5
Bearings AN, AB, AO, & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	474	- 165	L - M	178	- 417
D - E	426	- 1480	M - N	120	- 419
E - F	561	- 1544	N - O	76	- 441
F - G	566	- 1321	O - P	23	- 460
G - H	566	- 1320	P - Q	0	- 470
K - L	229	- 402	Q - R	0	- 473

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AB-AA	129	- 428	X - W	1471	- 229
AA- Z	1172	- 189	W - V	1691	- 321
Z - Y	1191	- 142	V - U	1671	- 350
Y - X	1311	- 182	U - T	3340	- 699

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C -AB	134	- 728	AF-AG	439	- 1382
D -AB	505	- 1834	AG-AH	477	- 1439
D -AA	1674	- 316	AH-AI	522	- 1508
AA- E	192	- 496	AI-AJ	525	- 1597
H - X	451	- 50	AJ-AK	556	- 1646
H -AD	418	- 1235	AK-AL	595	- 1698
AD-AE	414	- 1233	AL-AM	564	- 1605
AE-AF	407	- 1232	AM- T	602	- 1671

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31; T4, T6 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2; B3,B4 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

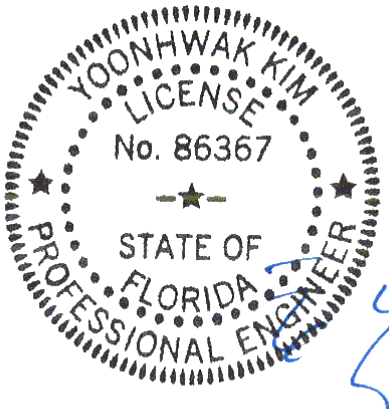
Wind loading based on gable roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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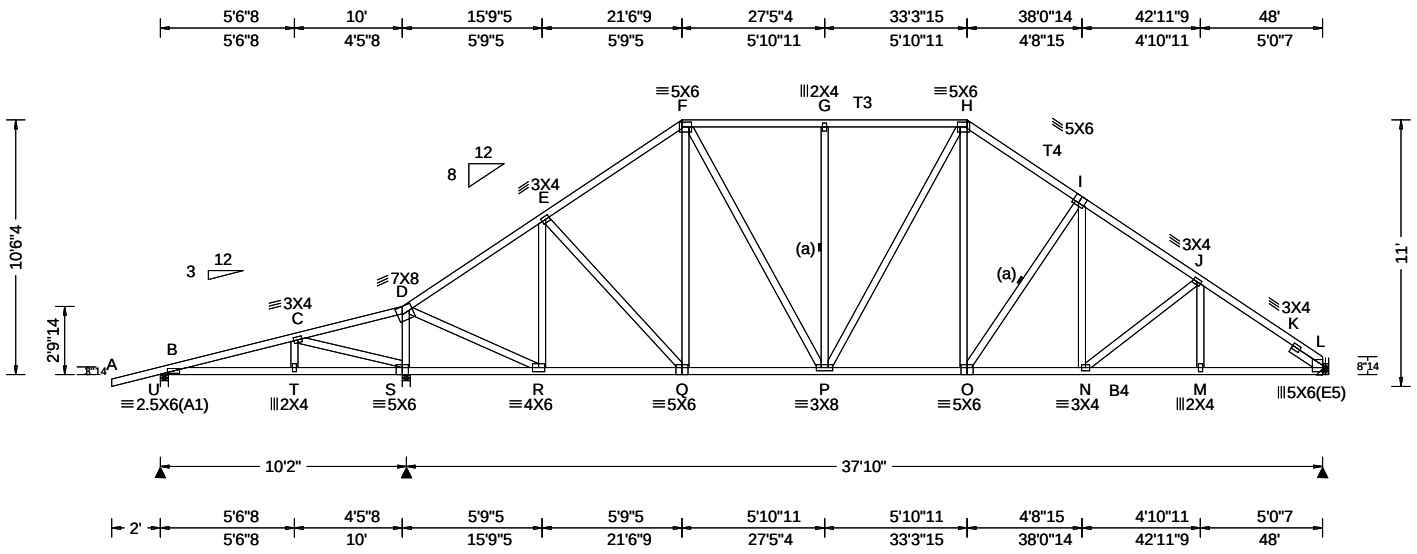
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336937 COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4327 Otero **Truss Label:** G12	Cust: R 215 JRef:1WZ32150005 T55 DrwNo: 273.20.1420.39930 / YK 09/29/2020	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
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: 4.80 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	O	999	240
VERT(CL): 0.171	O	999	180
HORZ(LL): 0.038	M	-	-
HORZ(TL): 0.071	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.378
Max BC CSI: 0.672
Max Web CSI: 0.756

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	417	/-	/-	/174	/118	/300
S	2411	/-	/-	/1272	/94	/-
L	1744	/-	/-	/960	/20	/-

Wind reactions based on MWFRS
U Brg Width = 4.0 Min Req = 1.5
S Brg Width = 4.0 Min Req = 2.8
L Brg Width = - Min Req = -
Bearings U & S are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	631	- 146	H - I	676	- 2024
D - E	458	- 1639	I - J	662	- 2366
E - F	615	- 1799	J - K	630	- 2592
F - G	650	- 1678	K - L	609	- 2642
G - H	650	- 1678			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	161	- 581	O - N	1887	- 349
R - Q	1307	- 229	N - M	2075	- 446
Q - P	1407	- 203	M - L	2078	- 446
P - O	1614	- 247			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - S	135	- 731	F - P	552	- 203
D - S	565	- 2087	H - O	645	- 103
D - R	1984	- 392	O - I	187	- 497
R - E	222	- 632			

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;
Webs: 2x4 SP #3;
Rt Slider: 2x4 SP #3; block length = 1.523'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Wind loading based on gable roof types.

Additional Notes

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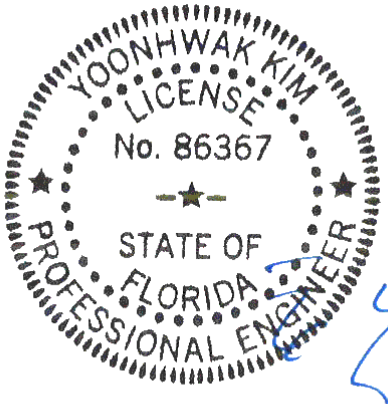
Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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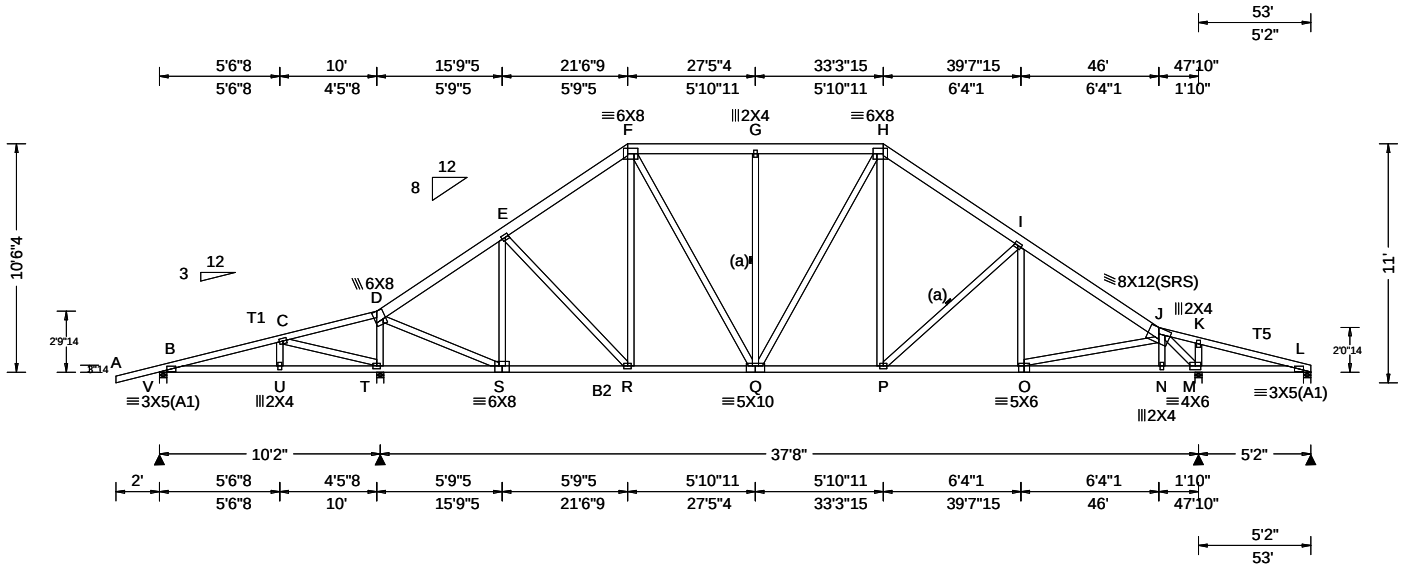
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336938 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G13	Cust: R 215 JRef:1WZ32150005 T15 DrwNo: 273.20.1420.41060 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
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: > 2h
C&C Dist a: 5.30 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.061	G	999	240
VERT(CL): 0.113	G	999	180
HORZ(LL): 0.033	M	-	-
HORZ(TL): 0.062	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.473
Max BC CSI: 0.610
Max Web CSI: 0.690

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
V	449	/-	/-		/200	/113	/274
T	2296	/-	/-		/1225	/22	/-
M	2178	/-	/-		/1159	/16	/-
L	98	/-85	/-		/18	/22	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	429	- 141	H - I	645	- 1977
D - E	478	- 1677	I - J	583	- 2289
E - F	618	- 1789	J - K	638	- 133
F - G	644	- 1630	K - L	629	- 149
G - H	644	- 1630			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	114	- 388	P - O	1834	- 360
S - R	1340	- 226	O - N	1098	- 221
R - Q	1400	- 188	N - M	1098	- 216
Q - P	1546	- 238	M - L	158	- 594

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - T	157	- 718	H - P	506	- 56
D - T	534	- 1967	P - I	172	- 398
D - S	1812	- 358	O - J	776	- 140
S - E	205	- 556	J - M	544	- 2444
F - Q	468	- 180			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31; T5 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Wind loading based on gable roof types.

Additional Notes

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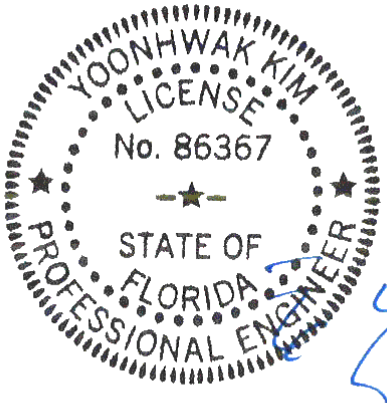
The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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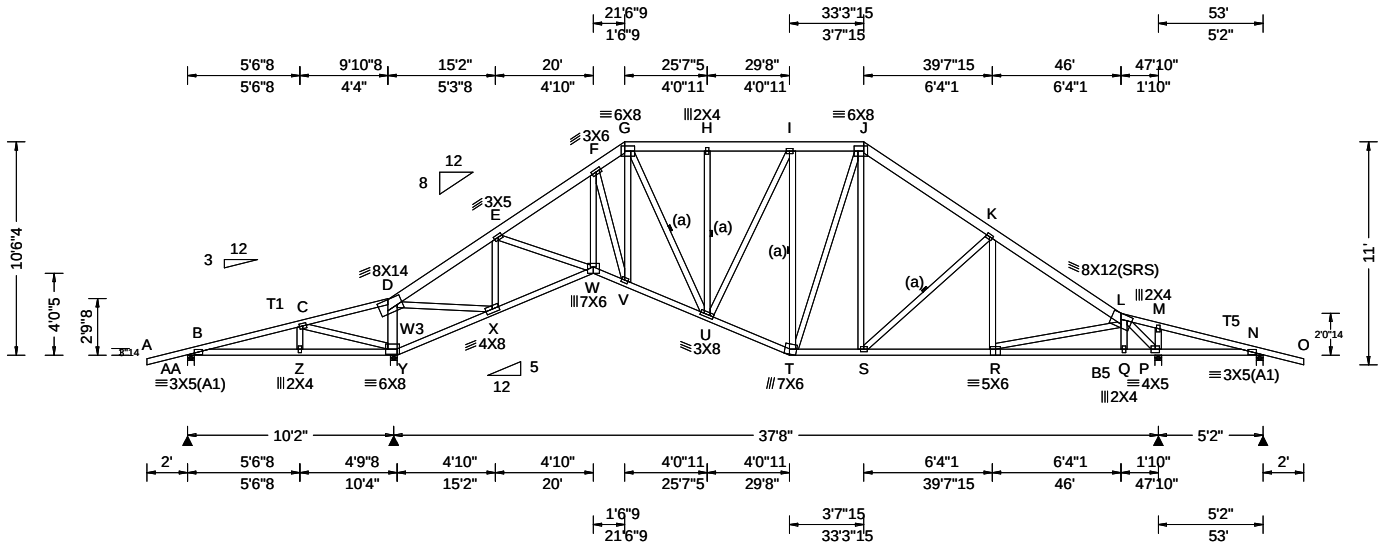
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336939 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 20-4327 Otero **Truss Label:** G14		Cust: R 215 JRef:1WZ32150005 T56 DrwNo: 273.20.1420.42247 / YK 09/29/2020	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00		Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.089 W 999 240
BCLL: 0.00		Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.185 W 999 180
BCDL: 10.00		Risk Category: II	Snow Duration: NA	HORZ(LL): 0.071 P - -
Des Ld: 40.00		EXP: C Kzt: NA		HORZ(TL): 0.146 P - -
NCBCLL: 10.00		Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00		TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.449
Load Duration: 1.25		BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.613
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.949
		C&C Dist a: 5.30 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA	358	/-7	/-	/104	/179	/287
Y	2383	/-	/-	/1447	/-	/-
P	1997	/-	/-	/1149	/-	/-
N	247	/-45	/-	/85	/126	/-

Wind reactions based on MWFRS

AA	Brg Width = 4.0	Min Req =	1.5
Y	Brg Width = 4.0	Min Req =	2.8
P	Brg Width = 4.0	Min Req =	1.5
N	Brg Width = 4.0	Min Req =	1.5

Bearings AA, Y, P, & N are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	654	-150	H - I	59	-1495
C - D	1245	-102	I - J	120	-1311
D - E	69	-1416	J - K	129	-1652
E - F	0	-2291	K - L	113	-1978
F - G	40	-1859	L - M	733	-29
G - H	59	-1494	M - N	731	-41

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Z	0	-619	U - T	1439	0
Z - Y	0	-628	T - S	1274	0
Y - X	40	-1603	S - R	1573	0
X - W	1261	0	R - Q	862	-3
W - V	1959	0	Q - P	862	0
V - U	1717	0	P - N	86	-687

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Y	150	-814	V - G	891	-11
D - Y	116	-1462	U - I	421	-14
D - X	2491	0	I - T	0	-583
X - E	0	-1135	J - S	407	-98
E - W	754	0	S - K	223	-416
W - F	1013	0	R - L	762	0
F - V	47	-934	L - P	116	-2238

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31; T5 2x4 SP #2;
Bot chord: 2x4 SP #2; B5 2x4 SP M-31;
Webs: 2x4 SP #3; W3 2x6 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

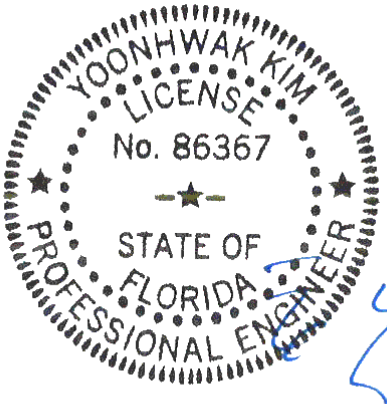
Wind loading based on gable roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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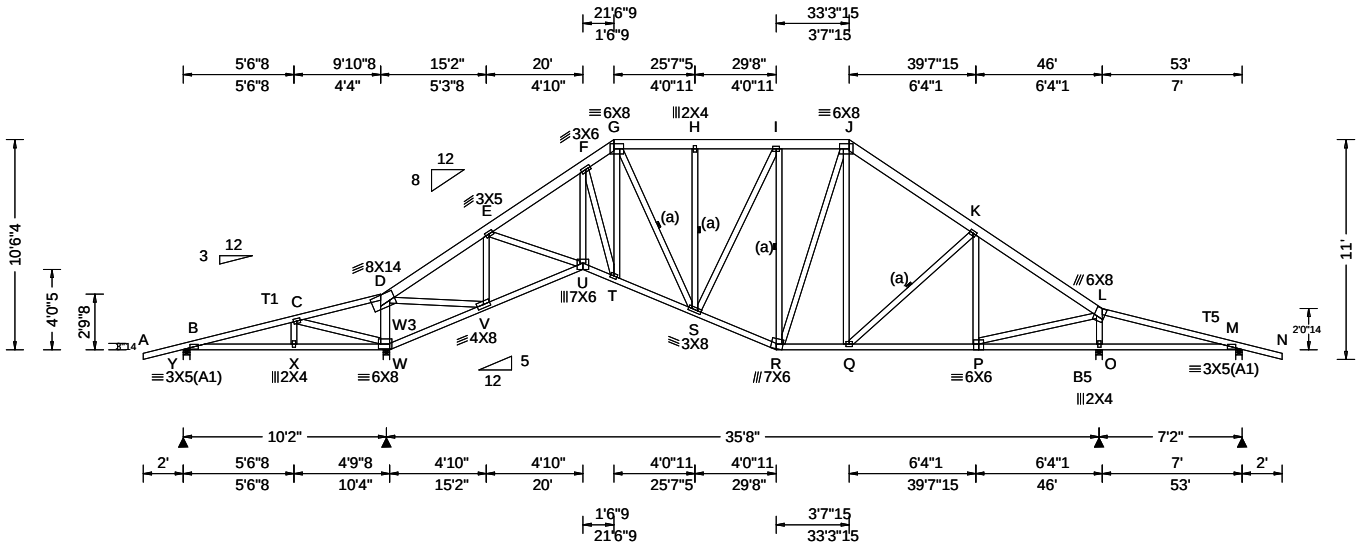
For more information see these web sites: Alpine: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 336940 COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4327 Otero **Truss Label:** G15	Cust: R 215 JRef:1WZ32150005 T44 DrwNo: 273.20.1420.43560 / YK 09/29/2020



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.083 U 999 240
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.173 U 999 180
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.063 P - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.131 P - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.446
Load Duration:	1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.493
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.911
		C&C Dist a: 5.30 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	366	/-	/-	/112	/179	/288
W	2310	/-	/-	/1419	/-	/-
O	1810	/-	/-	/1054	/-	/-
M	408	/-	/-	/222	/102	/-

Wind reactions based on MWFRS
Y Brg Width = 4.0 Min Req = 1.5
W Brg Width = 4.0 Min Req = 2.7
O Brg Width = 4.0 Min Req = 1.5
M Brg Width = 4.0 Min Req = 1.5
Bearings Y, W, O, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	596	-168	G - H	51	-1405
C - D	1184	-115	H - I	51	-1406
D - E	65	-1376	I - J	110	-1212
E - F	0	-2191	J - K	114	-1504
F - G	31	-1768	K - L	95	-1655

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - X	29	-563	T - S	1633	0
X - W	20	-572	S - R	1331	0
W - V	37	-1529	R - Q	1155	0
V - U	1224	-4	Q - P	1297	0
U - T	1869	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	150	-809	F - T	51	-913
D - W	113	-1418	T - G	871	-15
D - V	2391	0	S - I	444	-7
V - E	0	-1085	I - R	0	-598
E - U	703	0	P - L	1482	0
U - F	984	0	O - L	189	-1655

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31; T5 2x4 SP #2;
Bot chord: 2x4 SP #2; B5 2x4 SP M-31;
Webs: 2x4 SP #3; W3 2x6 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Loading

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

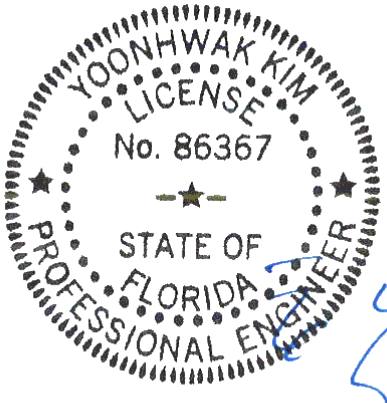
Wind loading based on gable roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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ALPINE
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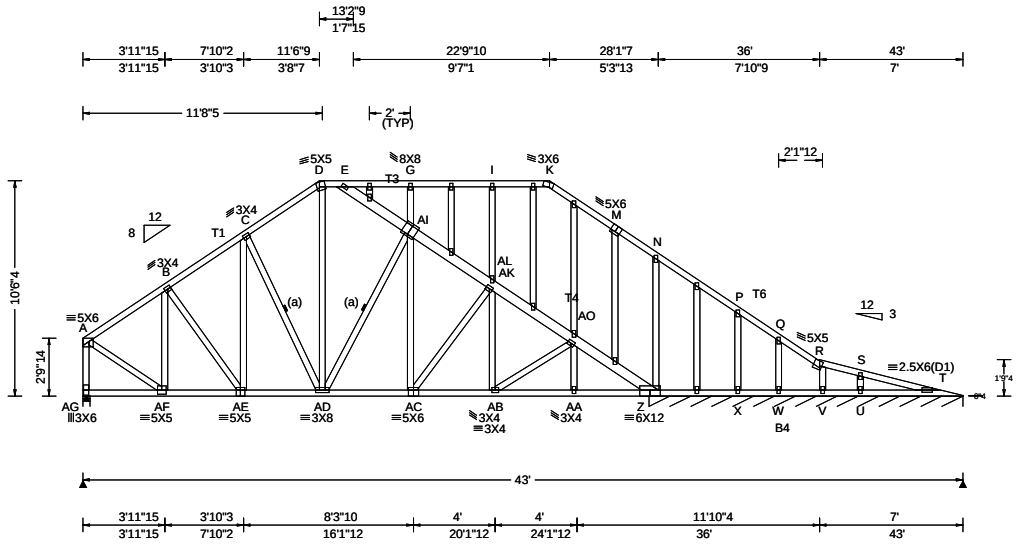
Suite 305
Orlando FL, 32821

SEQN: 336941 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G16	Cust: R 215 JRef:1WZ32150005 T14 DrwNo: 273.20.1420.44870 / YK 09/29/2020	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.30 ft Loc. from endwall: not in 8.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.097 H 999 240 VERT(CL): 0.215 H 999 180 HORZ(LL): 0.062 N - - HORZ(TL): 0.136 N - - Creep Factor: 2.0 Max TC CSI: 0.840 Max BC CSI: 0.958 Max Web CSI: 0.785 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AG	2553	/-	/-	/1374	/163	/760
T*	329	/-	/-	/176	/46	/-

Wind reactions based on MWFRS
AG Brg Width = 4.0 Min Req = 3.0
T Brg Width = 184 Min Req = -
Bearings AG & Z are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 2231	K - M	283	- 1015
B - C	290	- 2542	M - N	131	- 1116
C - D	301	- 2396	N - P	0	- 1046
D - E	311	- 1843	P - Q	0	- 1046
E - G	296	- 745	Q - R	0	- 1037
G - I	285	- 748	R - S	7	- 803
I - K	280	- 765	S - T	15	- 793

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
AG-AF	765	- 618	AA- Z	2992	0
AF-AE	1785	- 264	Z - X	773	- 10
AE-AD	1982	- 142	X - W	781	- 5
AD-AC	2291	0	W - V	793	0
AC-AB	2739	0	V - U	735	- 8
AB-AA	2993	0	U - T	753	- 5

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A -AF	2061	- 64	AC-AL	0	- 742
AF- B	78	- 1085	AK-AL	0	- 2212
C -AD	412	- 375	AL-AO	0	- 2473
AD-AI	0	- 939	AB-AO	348	- 490
E -AI	39	- 1357	AO- Z	7	- 2684
AI-AC	638	0	R - V	0	- 573
AI-AK	0	- 1964			

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
A -AG	206	- 2534	N - Z	202	- 641
D -AD	1189	- 107	X - P	166	- 404
AI- G	0	- 396	W - Q	166	- 413
AK- I	0	- 465	U - S	214	- 488

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2; T1,T6 2x4 SP M-31; T3, T4 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

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.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

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

Left end vertical not exposed to wind pressure.

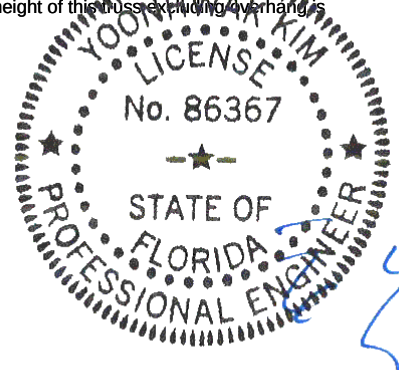
Wind loading based on gable roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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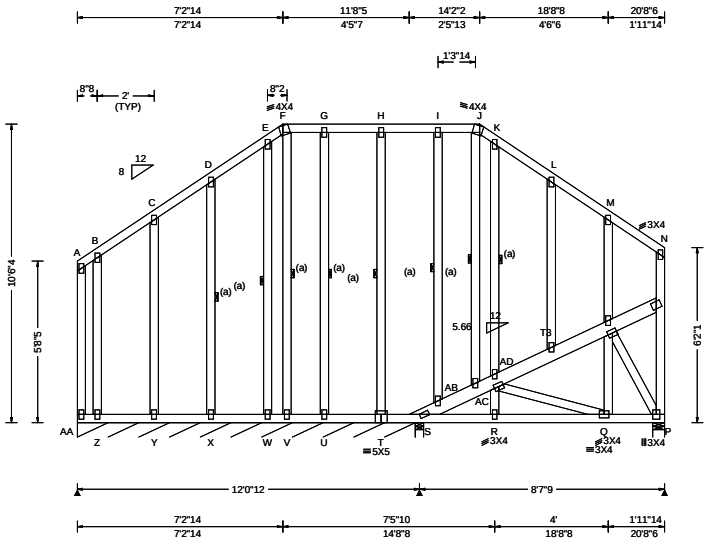
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336999 SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G17	Cust: R 215 JRef:1WZ32150005 T41 DrwNo: 273.20.1420.45860 / YK 09/29/2020	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 0.00 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	K	999	240
VERT(CL): 0.013	K	999	180
HORZ(LL): -0.012	K	-	-
HORZ(TL): 0.022	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.294
Max Web CSI: 0.137

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA*	80	/-	/-	/-	/22	/-
S	402	/-	/-	/-	/159	/-
P	445	/-	/-	/-	/121	/-

Wind reactions based on MWFRS
AA Brg Width = 142 Min Req = -
S Brg Width = 3.5 Min Req = 1.5
P Brg Width = 4.9 Min Req = 1.5
Bearings AA, S, & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	423	- 178	R - Q	420	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S -AB	232	- 545	AC-AD	193	- 463
AB-AC	204	- 486			

Lumber

Value Set: NDS 2015

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

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

TC: From	64 plf at	0.00 to	64 plf at	7.24
TC: From	62 plf at	7.24 to	62 plf at	14.38
TC: From	31 plf at	14.38 to	31 plf at	20.40
TC: From	64 plf at	20.40 to	64 plf at	33.29
BC: From	20 plf at	0.00 to	20 plf at	14.38
BC: From	10 plf at	14.38 to	10 plf at	20.70
BC: From	5 plf at	32.57 to	5 plf at	33.29

BC: 9 lb Conc. Load at 14.38
BC: 107 lb Conc. Load at 17.20
BC: 207 lb Conc. Load at 20.03

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Wind loading based on gable roof types.

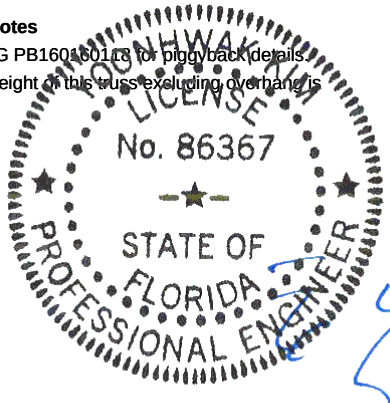
Blocking

Blocking reinforcement required to
prevent buckling of members over the bearings:
Bearing 2 located at 11.9' (blocking >= 39.91" if used)

Additional Notes

Refer to DWG PB1601601t8 for piggyback details.

The overall height of this truss exluding overhang is 10-6-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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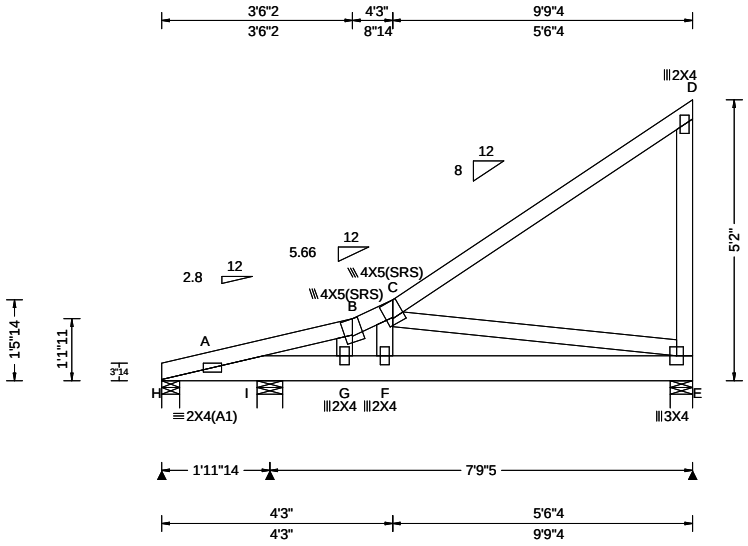
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336969 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** G18	Cust: R 215 JRef:1WZ32150005 T48 DrwNo: 273.20.1420.46993 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	240
VERT(CL): 0.035	C	999	180
HORZ(LL): -0.009	D	-	-
HORZ(TL): 0.017	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.525
Max BC CSI: 0.179
Max Web CSI: 0.441

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	80	/-	/-	/-	/17	/-
I	525	/-	/0	/-	/46	/-
E	407	/-	/-	/-	/43	/-

Wind reactions based on MWFRS
H Brg Width = 4.0 Min Req = 1.5
I Brg Width = 5.7 Min Req = 1.5
E Brg Width = 4.9 Min Req = 1.5
Bearings H, I, & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	47	-749	B - C	14	-744

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	1431	-83	F - E	715	-52
G - F	728	-35			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - E	53	-729

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

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

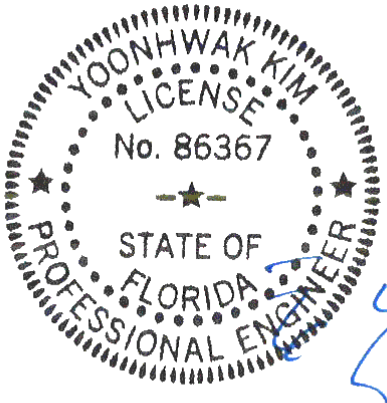
TC: From	61 plf at	0.00 to	61 plf at	3.51
TC: From	62 plf at	3.51 to	62 plf at	4.25
TC: From	64 plf at	4.25 to	64 plf at	9.77
BC: From	20 plf at	0.00 to	20 plf at	4.48
BC: From	10 plf at	4.48 to	10 plf at	7.31
BC: From	20 plf at	7.31 to	20 plf at	9.77

BC: 156 lb Conc. Load at 4.48
BC: 70 lb Conc. Load at 7.31

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 5-2-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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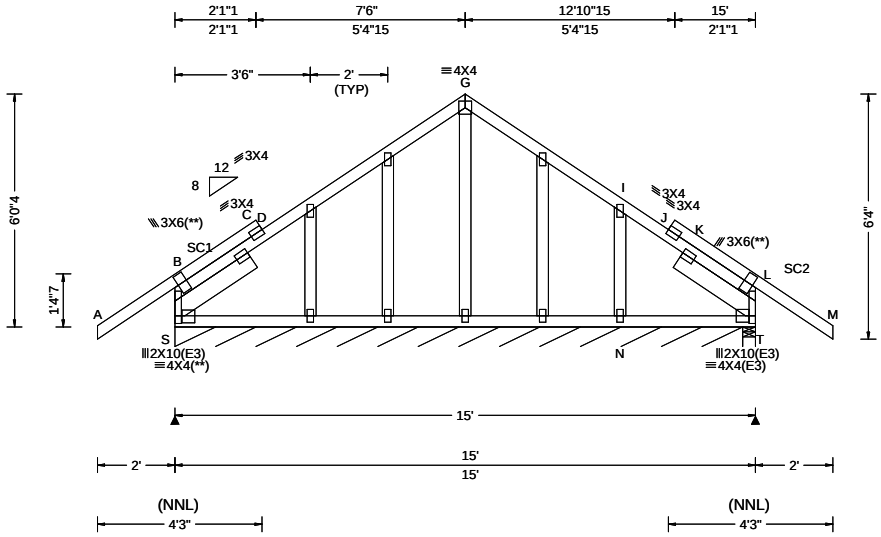
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336988 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H01	Cust: R 215 JRef:1WZ32150005 T45 DrwNo: 273.20.1420.47953 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	240
VERT(CL): 0.010	B	999	180
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.855
Max BC CSI: 0.038
Max Web CSI: 0.114

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S*	153	/-	/-	/76	/-	/10
T	699	/-	/-	/438	/98	/-

Wind reactions based on MWFRS
S Brg Width = 176 Min Req = -
T Brg Width = 4.0 Min Req = 1.5
Bearings S & T are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	466	-253	J - K	87	-451
B - D	435	-182	J - L	389	-182
C - D	458	-248	K - L	123	-508
D - G	477	-203			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	421	-62	N - L	402	-61

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
N - I	382	-310

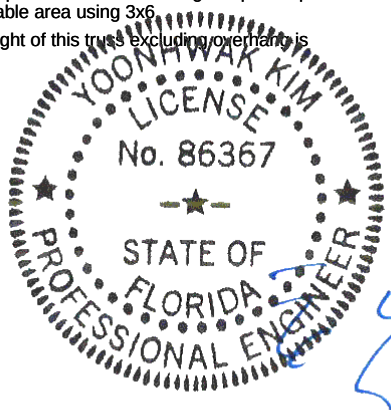
Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 2.463'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 2.463'

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

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
See DWGS A14015ENC160118 & 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 6-0-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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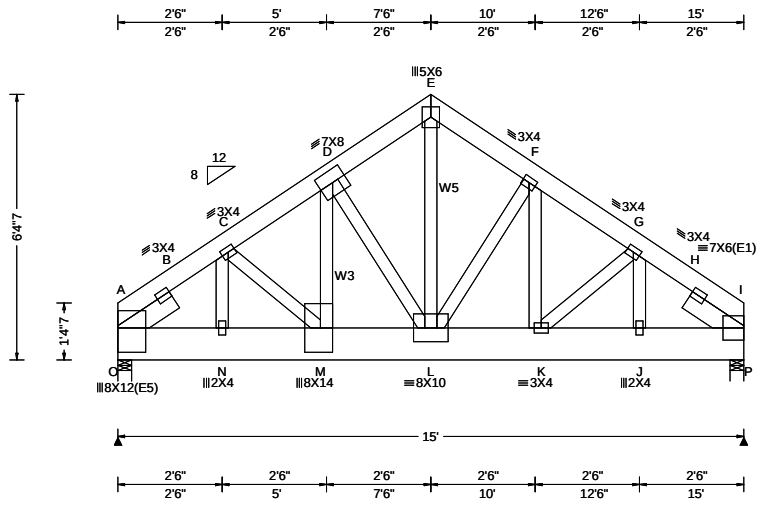
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336985 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H02	Cust: R 215 JRef:1WZ32150005 T62 DrwNo: 273.20.1420.49063 / YK 09/29/2020	

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	M	999	240
VERT(CL): 0.106	M	999	180
HORZ(LL): 0.018	C	-	-
HORZ(TL): 0.036	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.194
Max BC CSI: 0.484
Max Web CSI: 0.853

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	8421	/-	/-	/-	/431	/-
P	4673	/-	/-	/-	/262	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	283	-5390	E - F	178	-3535
B - C	275	-5362	F - G	176	-3298
C - D	267	-5380	G - H	162	-2999
D - E	177	-3526	H - I	170	-3024

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - N	4235	-221	L - K	2711	-139
N - M	4163	-214	K - J	2349	-127
M - L	4314	-210	J - I	2384	-130

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - M	404	-1	L - F	575	-11
M - D	3244	-133	F - K	32	-516
D - L	124	-2497	K - G	487	-15
E - L	3537	-147	G - J	36	-435

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x10 SP 2400f-2.0E;
Webs: 2x4 SP #3; W3,W5 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
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	64 plf at	0.00 to	64 plf at	15.00
BC: From	10 plf at	0.00 to	10 plf at	5.75
BC: From	20 plf at	5.75 to	20 plf at	15.00

BC: 401 lb Conc. Load at 2.06
BC: 2326 lb Conc. Load at 3.79
BC: 1887 lb Conc. Load at 4.94
BC: 7277 lb Conc. Load at 5.75

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on gable roof types.

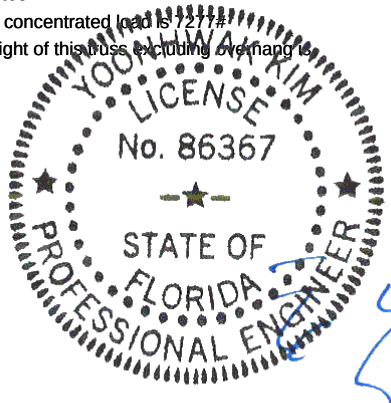
Blocking

Apply additional nailing over the following bearings with fasteners at 4" oc both perpendicular and parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 7.25" if used)
Bearing 2 located at 14.7' (blocking >= 7.25" if used)

Additional Notes

The maximum concentrated load is 7277#.

The overall height of this truss excluding overhang is 6-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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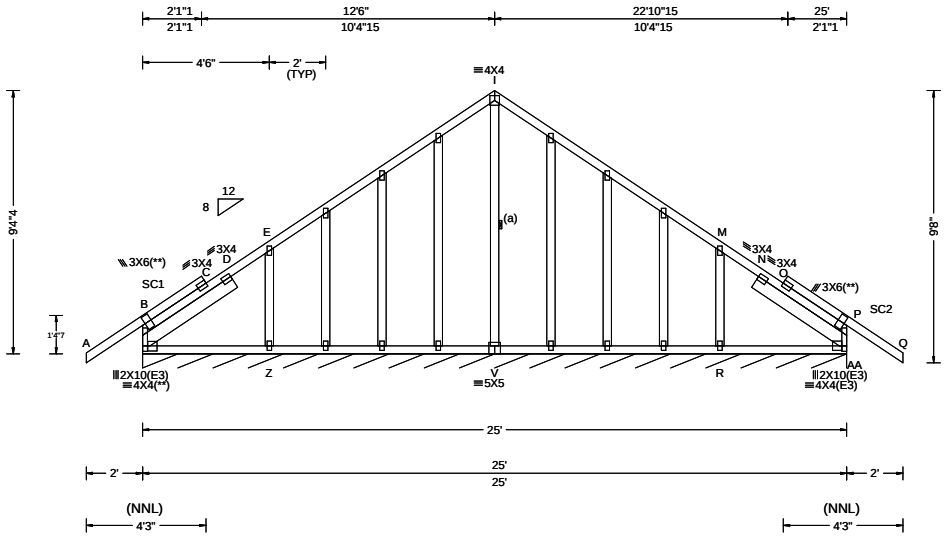
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336990 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H03	Cust: R 215 JRef:1WZ32150005 T8 DrwNo: 273.20.1420.50200 / YK 09/29/2020



Loading Criteria (psf)

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

Wind Criteria

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

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.023	O	999	240
VERT(CL): 0.046	O	999	180
HORZ(LL): 0.016	C	-	-
HORZ(TL): 0.031	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.065
Max Web CSI: 0.166

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AA*	185	/-	/-	/78	/-	/6

Wind reactions based on MWFRS
AA Brg Width = 300 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	378	- 245	E - I	381	- 294
D - E	411	- 155			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - R	605	- 64	R - P	590	- 62

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - D	378	- 211	N - P	74	- 718

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
E - Z	0	- 474	R - M	431	- 474

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 3.966'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 3.966'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

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

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

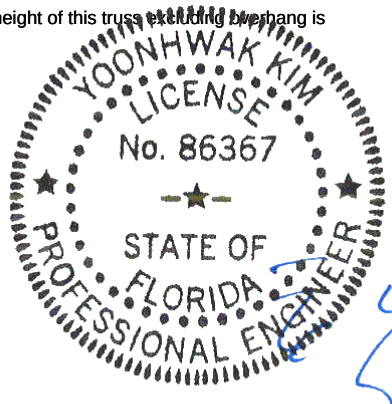
Wind loading based on gable roof types.

Additional Notes

See DWGS A14015ENC160118 & 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 9-4-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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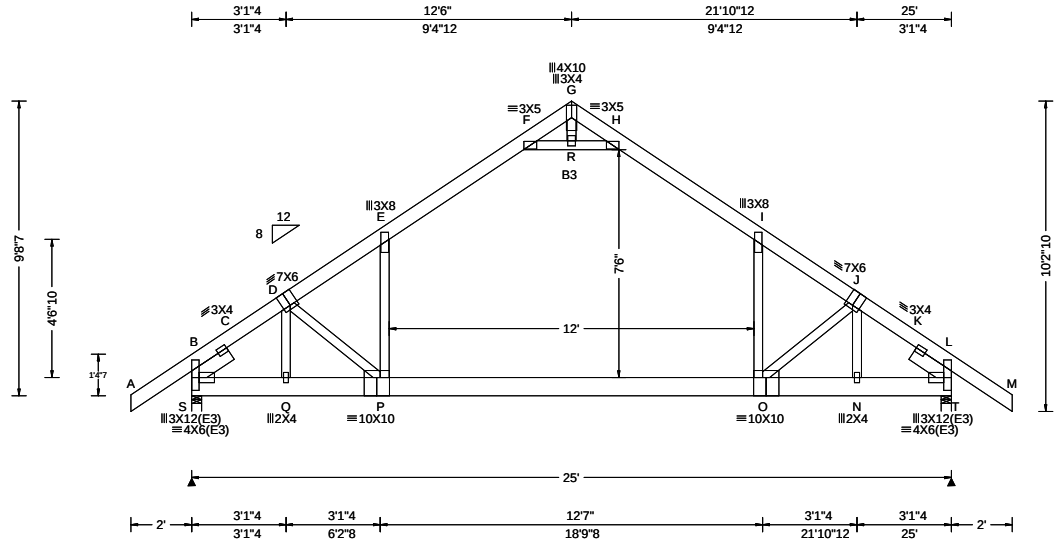
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336944 ATIC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4327 Otero **Truss Label:** H04		Cust: R 215 JRef:1WZ32150005 T46 DrwNo: 273.20.1420.51350 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.324	O	926	240
VERT(CL): 0.642	O	467	180
HORZ(LL): -0.240	I	-	-
HORZ(TL): 0.477	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.996
Max BC CSI: 0.611
Max Web CSI: 0.571

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
S	2030	/-	/-	/732	/196	/301
T	2030	/-	/-	/732	/196	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	417	- 2426	G - H	825	- 72
C - D	366	- 2362	H - I	394	- 1761
D - E	351	- 2556	I - J	352	- 2556
E - F	393	- 1761	J - K	364	- 2362
F - G	825	- 73	K - L	414	- 2426

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	1841	- 158	O - N	1825	- 176
Q - P	1825	- 157	N - L	1841	- 179
P - O	1748	- 43			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - D	84	- 606	R - H	609	- 3059
P - E	1275	0	I - O	1275	0
F - R	609	- 3059	J - N	109	- 606
G - R	870	- 165			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Attic room loading from 6-6-0 to 18-6-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

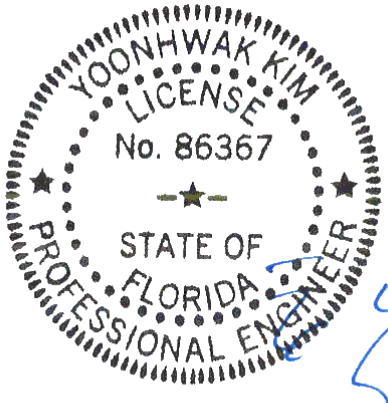
Wind loading based on gable roof types.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)
Bearing 2 located at 24.7' (blocking >= 3.50" if used)

Additional Notes

The overall height of this truss excluding overhang is 9-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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ALPINE
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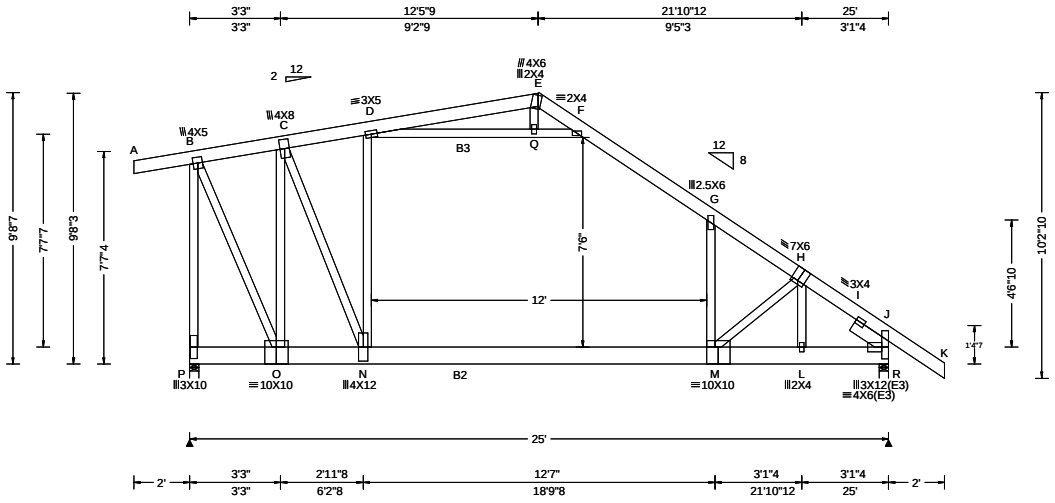
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336945 ATIC FROM: CDM	Ply: 4 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H05	Cust: R 215 JRef:1WZ32150005 T20 DrwNo: 273.20.1420.52307 / YK 09/29/2020	

4 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	93.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.335	M	896	240
VERT(CL): 0.654	M	459	180
HORZ(LL): -0.239	G	-	-
HORZ(TL): 0.472	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.571
Max BC CSI: 0.799
Max Web CSI: 0.916

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	7764	/-	/-	/2421	/1004	/961
R	7833	/-	/-	/3016	/655	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 2.3
R Brg Width = 4.0 Min Req = 2.3
Bearings P & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	164	- 686	G - H	271	- 2190
C - D	334	- 1563	H - I	379	- 2333
F - G	392	- 1728	I - J	397	- 2395

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	729	- 40	M - L	1782	- 162
N - M	1561	0	L - J	1796	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - P	477	- 1872	D - Q	195	- 1543
B - O	1621	- 314	Q - F	200	- 1603
O - C	414	- 2323	G - M	739	0
C - N	2403	- 436			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP #2; B2 2x8 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 2 Rows @ 6.00" o.c. (Each Row)
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
In addition, apply (1) 0.22"-0.25" min/max dia. X 6.0" length wood screw at each joint location.

Loading

Attic room loading from 6-6-0 to 18-6-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" oc, BC @ 120" oc.

Collar-tie braced with continuous lateral bracing at 24" oc.

Additional Notes

The overall height of this truss excluding overhang is 9-8-7.

Wind

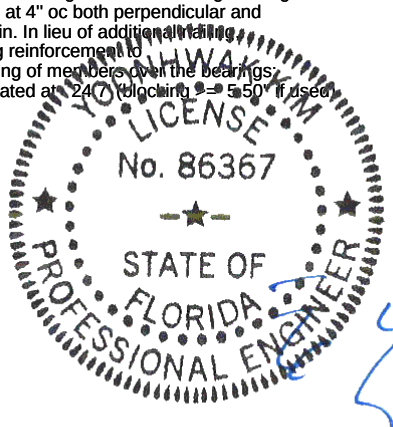
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Blocking

Apply additional nailing over the following bearings with fasteners at 4" oc both perpendicular and parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:
Bearing 2 located at 24(7) (blocking 9 - 9 5.50" if used)



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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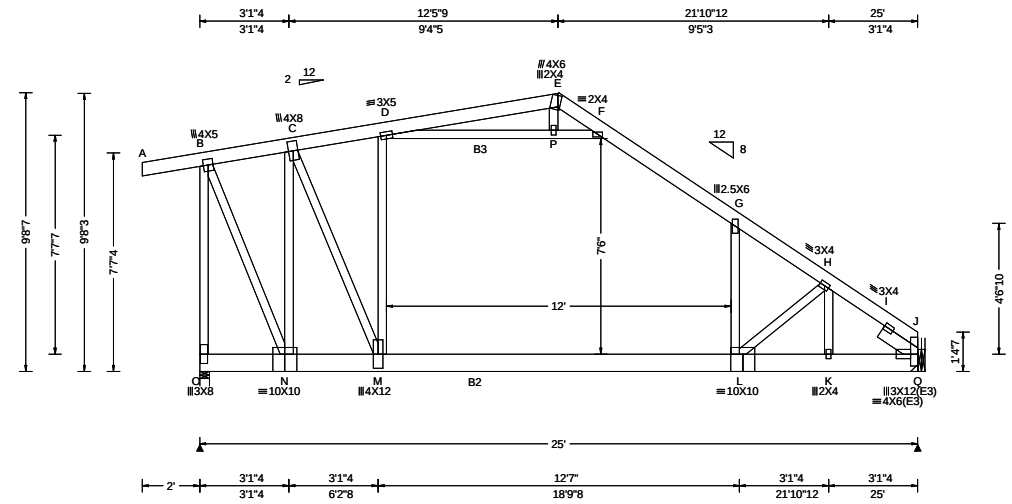
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336946 ATIC FROM: CDM	Ply: 4 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H06	Cust: R 215 JRef:1WZ32150005 T33 DrwNo: 273.20.1420.53310 / YK 09/29/2020	

4 Complete Trusses Required



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 93.0 "	**Wind Criteria** Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 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 16.50 ft GCpi: 0.18 Wind Duration: 1.60	**Snow Criteria** (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	**Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.339 L 884 240 VERT(CL): 0.664 L 451 180 HORZ(LL): -0.242 G - - HORZ(TL): 0.480 G - - Creep Factor: 2.0 Max TC CSI: 0.577 Max BC CSI: 0.801 Max Web CSI: 0.918 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
O	7784	/-	/-	/2436	/1004	/754
Q	7277	/-	/-	/2550	/244	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 2.3
Q Brg Width = - Min Req = -
Bearing O is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	75	- 651	G - H	100	- 2210
C - D	190	- 1571	H - I	206	- 2367
F - G	211	- 1734	I - J	198	- 2430

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	694	- 22	L - K	1832	- 126
M - L	1570	0	K - J	1846	- 128

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	260	- 1859	P - E	375	- 19
B - N	1597	- 132	P - F	120	- 1619
N - C	240	- 2316	G - L	751	0
C - M	2409	- 312	L - H	243	- 427
D - P	117	- 1559			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP #2; B2 2x8 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 2 Rows @ 6.00" o.c. (Each Row)
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
In addition, apply (1) 0.22"-0.25" min/max dia. X 6.0" length wood screw at each joint location.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 6-6-0 to 18-6-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" oc, BC @ 120" oc.

Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

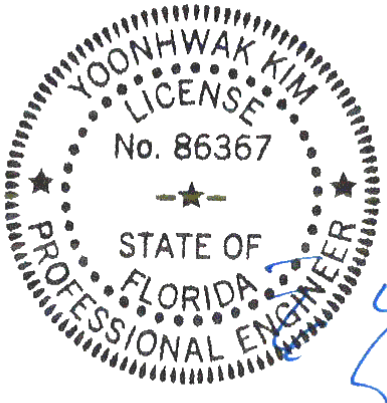
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 9-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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ALPINE
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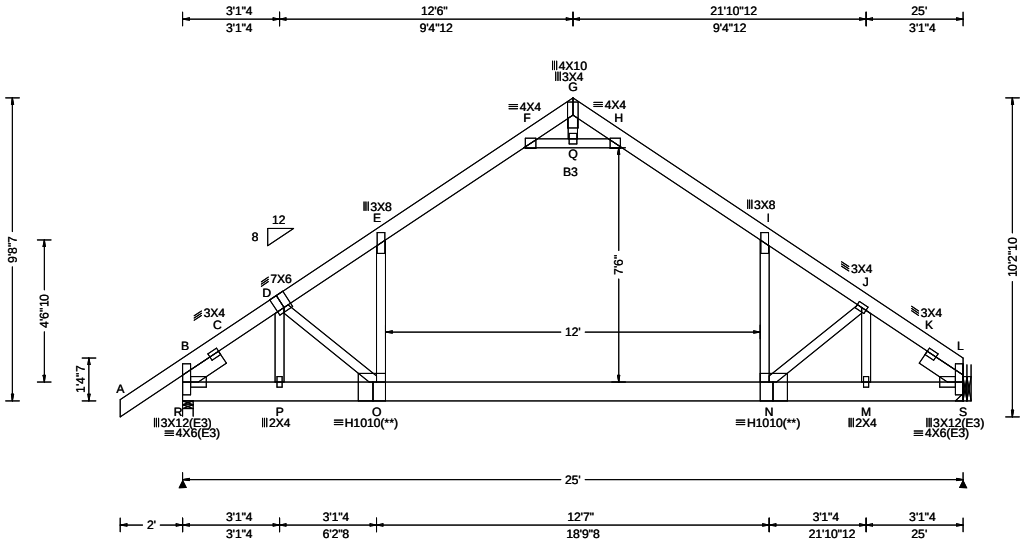
SEQN: 336947 ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H07	Cust: R 215 JRef:1WZ32150005 T58 DrwNo: 273.20.1420.55087 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.327	N	916	240
VERT(CL): 0.651	N	461	180
HORZ(LL): -0.242	I	-	-
HORZ(TL): 0.484	I	-	-

Creep Factor: 2.0
Max TC CSI: 1.000
Max BC CSI: 0.612
Max Web CSI: 0.578

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
R	2035	/-	/-		/732	/13	/275
S	1887	/-	/-		/611	/5	/-

Wind reactions based on MWFRS
R Brg Width = 4.0 Min Req = 1.7
S Brg Width = - Min Req = -
Bearing R is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	276	- 2433	G - H	833	- 49
C - D	239	- 2369	H - I	281	- 1768
D - E	232	- 2568	I - J	235	- 2579
E - F	282	- 1770	J - K	246	- 2399
F - G	830	- 49	K - L	238	- 2463

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	1847	- 149	N - M	1878	- 159
P - O	1830	- 146	M - L	1895	- 161
O - N	1758	- 48			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - D	87	- 614	Q - H	441	- 3079
O - E	1282	0	I - N	1289	0
F - Q	441	- 3079	J - M	106	- 605
G - Q	875	- 120			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP 2400f-2.0E; B3 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Plating Notes

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Attic room loading from 6-6-0 to 18-6-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

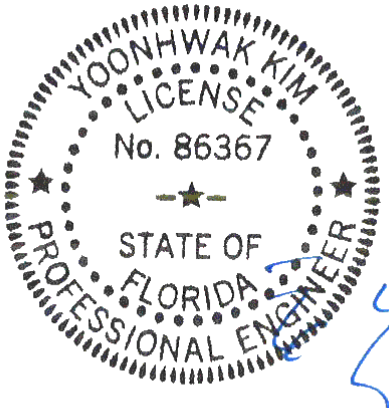
Wind loading based on gable roof types.

Blocking

Blocking reinforcement required to
prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 3.50" if used)

Additional Notes

The overall height of this truss excluding overhang is 9-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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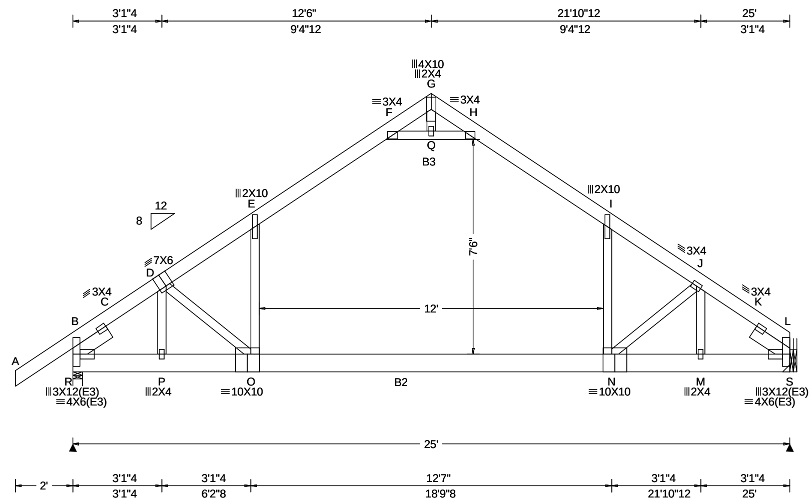
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336983 ATIC	Ply: 2	Job Number: 20-4327	Cust: R 215 JRef:1WZ32150005 T51
FROM: CDM	Qty: 1	Otero	DrwNo: 273.20.1421.02143
Page 1 of 2		Truss Label: H08	/ YK 09/29/2020

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.236 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.456 N 657 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.174 I - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.337 I - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.736
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.705
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.363
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
R	2397	/-	/-	/-	/311	/-
S	2326	/-	/-	/-	/271	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	167	-1465	G - H	592	-35
C - D	157	-1431	H - I	137	-1072
D - E	171	-1631	I - J	178	-1658
E - F	142	-1082	J - K	173	-1508
F - G	581	-39	K - L	183	-1543

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	1121	-118	N - M	1186	-134
P - O	1112	-116	M - L	1195	-135
O - N	1110	-121			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - D	49	-430	Q - H	183	-2025
O - E	885	-13	I - N	953	-34
F - Q	183	-2025	J - M	42	-381
G - Q	571	-50			

Lumber

Value Set: NDS 2015

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x8 SP #2; B2 2x8 SP 2400f-2.0E;
B3 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Nailnote

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

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 40 plf at -2.00 to 40 plf at 25.00
TC: From 24 plf at -2.00 to 24 plf at 25.00
PLT: From 20 plf at 11.36 to 20 plf at 13.64
PLT: From 24 plf at 6.50 to 24 plf at 10.93
PLT: From 24 plf at 14.07 to 24 plf at 18.50
PLT: From 100 plf at 6.50 to 100 plf at 18.50
BC: From 5 plf at -2.00 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 25.00
BC: 91 lb Conc. Load at 6.50,18.50
BC: 429 lb Conc. Load at 12.27
BC: 372 lb Conc. Load at 15.40

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on gable roof types.

Blocking

Apply additional nailing over the following bearings with fasteners at 4" oc both perpendicular and parallel to grain. In lieu of additional nailing apply blocking reinforcement to prevent buckling of members over the bearings.
Bearing 1 located at 0.0' (blocking >= 3.50" if used)

No. 86367
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

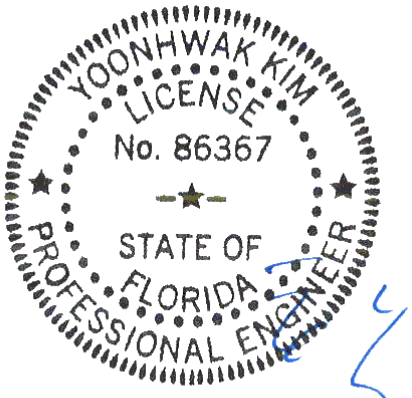
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

Additional Notes

The overall height of this truss excluding overhang is 9-8-7.

WIND LOAD CASE MODIFIED!

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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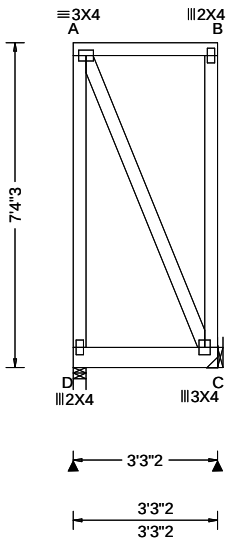
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336970 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** H09	Cust: R 215 JRef:1WZ32150005 T35 DrwNo: 273.20.1421.06330 / YK 09/29/2020



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.35 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 10.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.227
Max BC CSI: 0.629
Max Web CSI: 0.090

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	1010	/-	/-	/-	/59	/-
C	731	/-	/-	/-	/49	/-

Wind reactions based on MWFRS
D Brg Width = 3.4 Min Req = 1.5
C Brg Width = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Value Set: NDS 2015

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

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.26
BC: From 20 plf at 0.00 to 20 plf at 3.26
BC: 1480 lb Conc. Load at 1.32

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

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.

Additional Notes

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 7-4-3.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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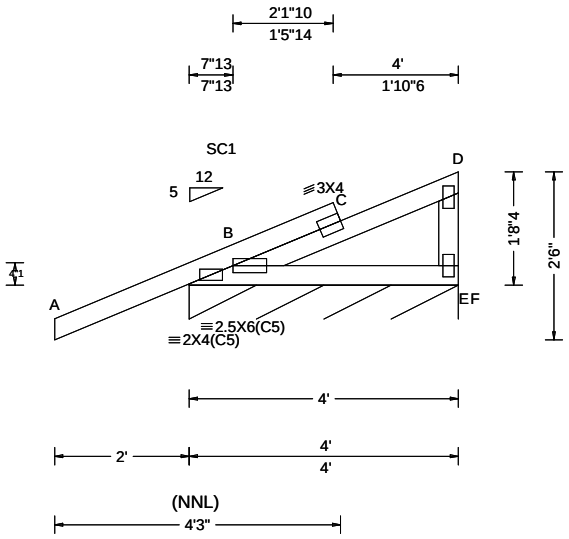
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336948 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4327 Otero **Truss Label:** J01	Cust: R 215 JRef:1WZ32150005 T22 DrwNo: 273.20.1421.07990 / YK 09/29/2020	



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.039	C	999	240
VERT(CL): 0.053	C	841	180
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.239
Max Web CSI: 0.046

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F*	214	/-	/-	/114	/51	/34

Wind reactions based on MWFRS
F Brg Width = 48.0 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	366	- 423

Lumber

Value Set: NDS 2015

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

Plating Notes

All plates are 2X4 except as noted.

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

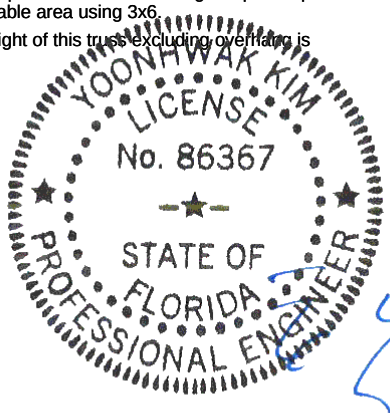
Wind loading based on gable roof types.

Additional Notes

See DWGS A14015ENC160118 & 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 1-8-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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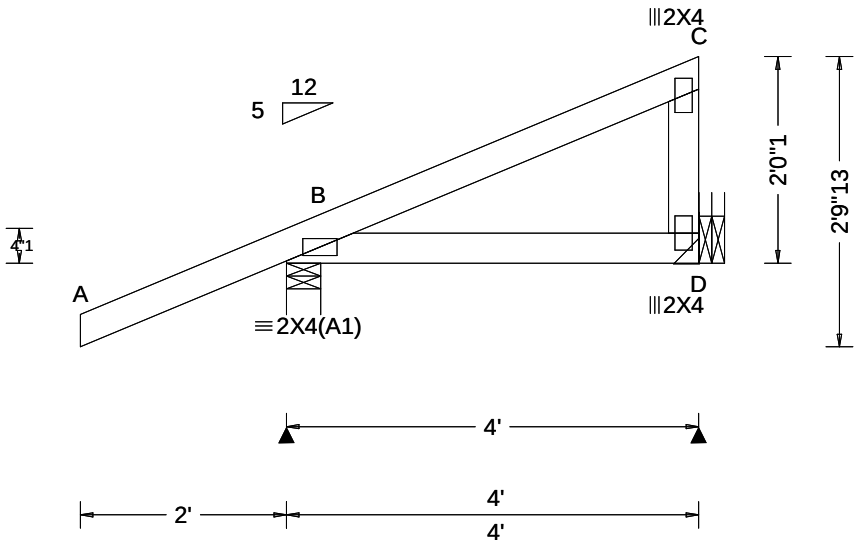
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336949 MONO FROM: CDM	Ply: 1 Qty: 5	**Job Number:** 20-4327 Otero **Truss Label:** J02	Cust: R 215 JRef:1WZ32150005 T21 DrwNo: 273.20.1421.09243 / YK 09/29/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.002 D - - HORZ(TL): 0.002 D - - Creep Factor: 2.0 Max TC CSI: 0.338 Max BC CSI: 0.126 Max Web CSI: 0.043 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	341	/-	/-	/236	/63	/82
D	118	/-	/-	/73	/29	/-

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

Lumber

Value Set: NDS 2015

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

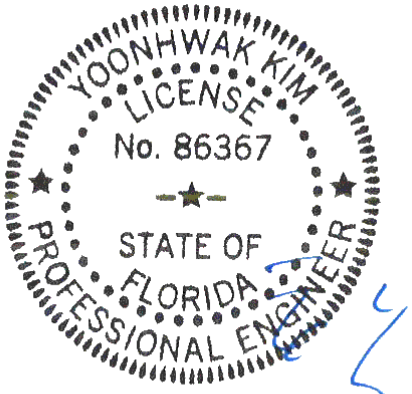
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-0-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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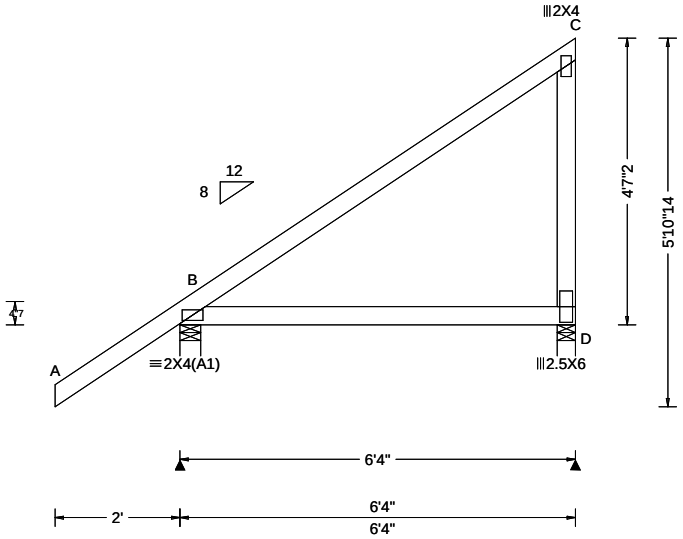
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336950 MONO FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 20-4327 Otero **Truss Label:** J03	Cust: R 215 JRef:1WZ32150005 T34 DrwNo: 273.20.1421.10357 / YK 09/29/2020



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.007 D - - HORZ(TL): 0.015 D - - Creep Factor: 2.0 Max TC CSI: 0.564 Max BC CSI: 0.412 Max Web CSI: 0.067 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	436	/-	/-	/311	/1	/133
D	234	/-	/-	/181	/45	/-

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

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

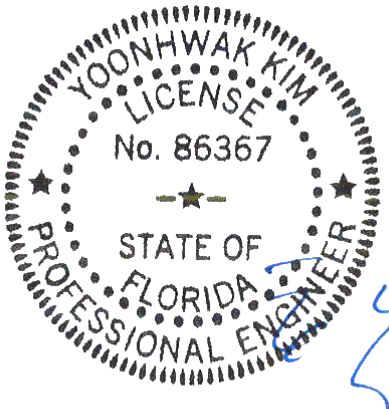
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-7-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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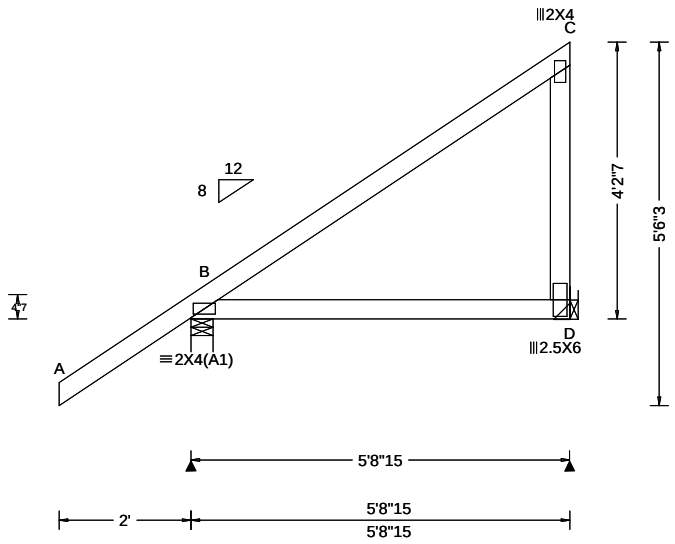
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336951 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J04	Cust: R 215 JRef:1WZ32150005 T52 DrwNo: 273.20.1421.11207 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.004 D - -
HORZ(TL): 0.009 D - -
Creep Factor: 2.0
Max TC CSI: 0.424
Max BC CSI: 0.305
Max Web CSI: 0.203

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	414	/-	/-	/298	/7	/123
D	207	/-	/-	/159	/40	/-

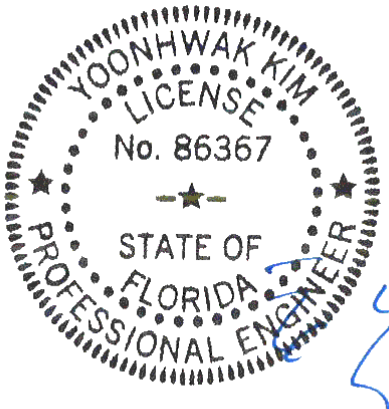
Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 4-2-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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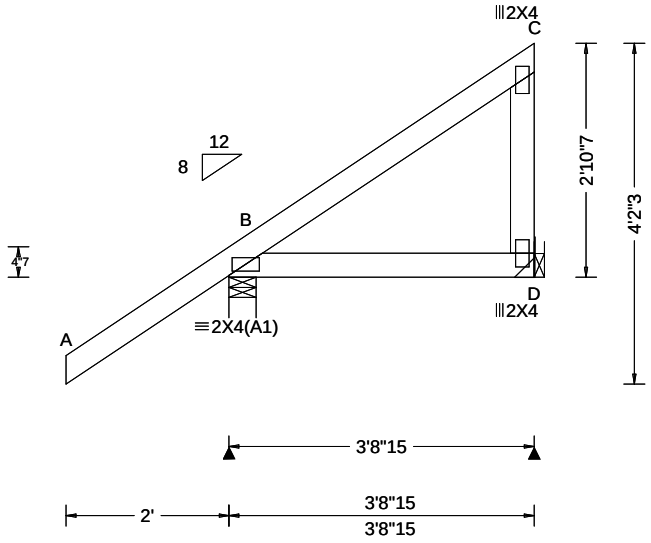
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336952 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J05	Cust: R 215 JRef:1WZ32150005 T24 DrwNo: 273.20.1421.11840 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.001 D - -
HORZ(TL): 0.002 D - -
Creep Factor: 2.0
Max TC CSI: 0.455
Max BC CSI: 0.113
Max Web CSI: 0.064

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	345	/-	/-	/261	/28	/89
D	107	/-	/-	/90	/21	/-

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

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

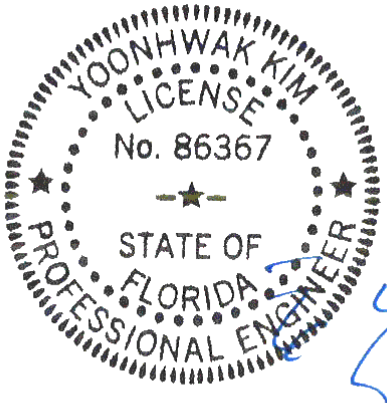
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-10-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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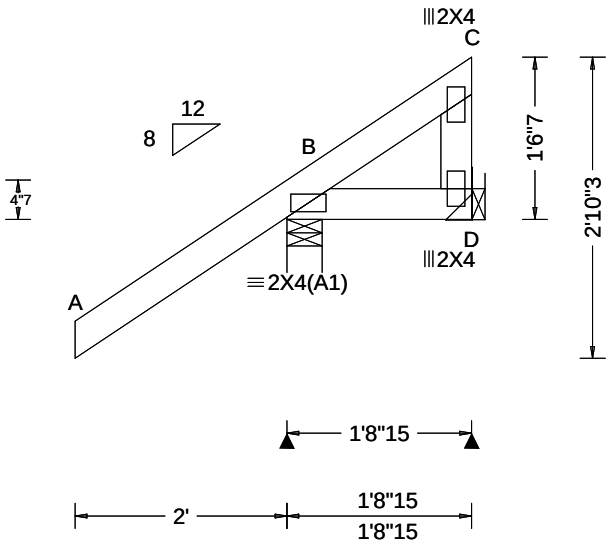
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336953 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J06		Cust: R 215 JRef:1WZ32150005 T50 DrwNo: 273.20.1421.12563 / YK 09/29/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 D - - HORZ(TL): 0.002 D - - Creep Factor: 2.0 Max TC CSI: 0.435 Max BC CSI: 0.086 Max Web CSI: 0.020 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	316	/-	/-	/263	/66	/63
D	9	/-32	/-	/59	/60	/-

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

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

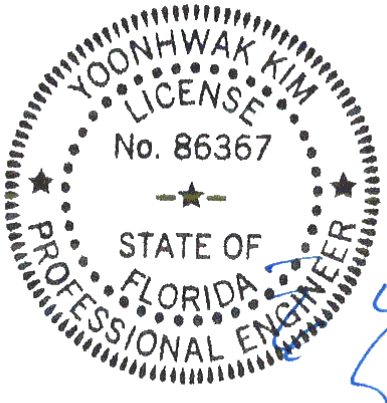
Wind

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

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 1-6-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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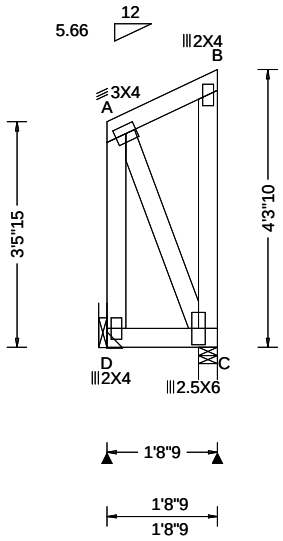
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336954 SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J07	Cust: R 215 JRef:1WZ32150005 T42 DrwNo: 273.20.1421.13457 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
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: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.000	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.061
Max BC CSI: 0.030
Max Web CSI: 0.049

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	70	/-	/-	/40	/-	/20
C	70	/-	/-	/69	/46	/-

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

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

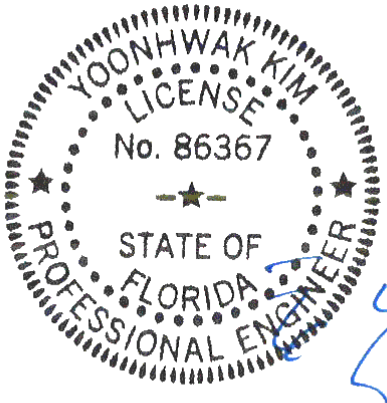
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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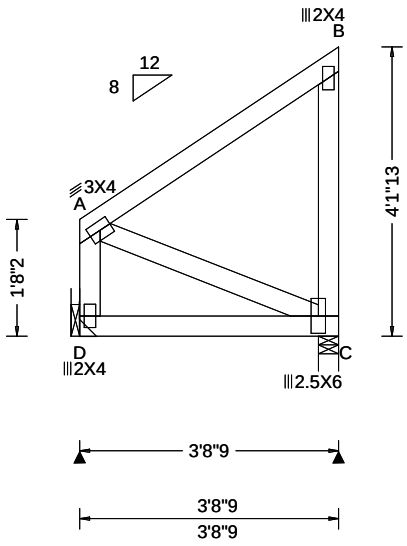
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336955 SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J08	Cust: R 215 JRef:1WZ32150005 T43 DrwNo: 273.20.1421.14143 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
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: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	240
VERT(CL): 0.001	B	999	180
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.263
Max BC CSI: 0.154
Max Web CSI: 0.117

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	156	/-	/-	/83	/-	/63
C	156	/-	/-	/137	/51	/-

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

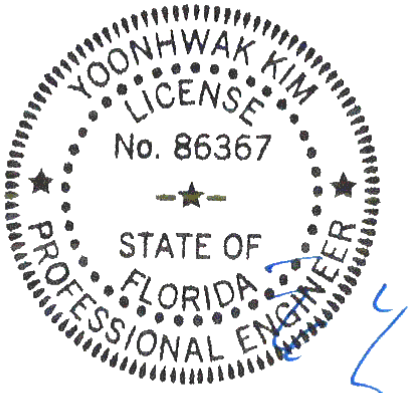
Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 4-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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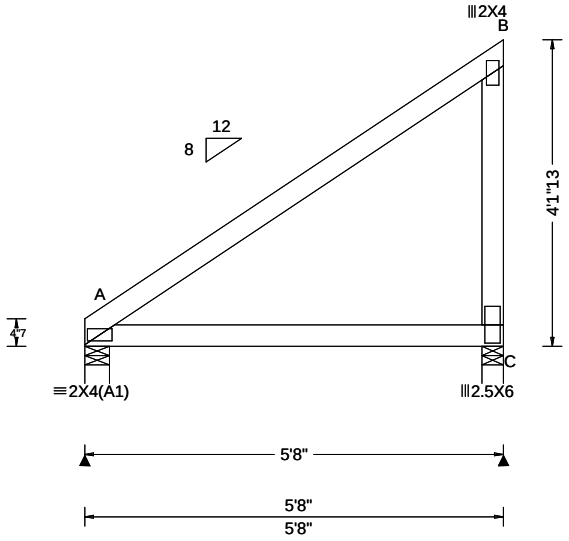
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336956 SPEC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4327 Otero **Truss Label:** J09	Cust: R 215 JRef:1WZ32150005 T39 DrwNo: 273.20.1421.14910 / YK 09/29/2020	



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): 0.008 C - -
HORZ(TL): 0.016 C - -
Creep Factor: 2.0
Max TC CSI: 0.483
Max BC CSI: 0.328
Max Web CSI: 0.234

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	244	/-	/-	/152	/-	/96
C	232	/-	/-	/184	/44	/-

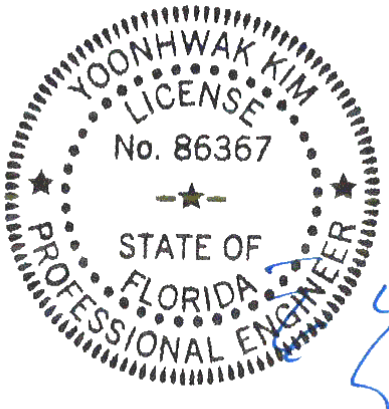
Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
C Brg Width = 3.5 Min Req = 1.5
Bearings A & C are a rigid surface.
Members not listed have forces less than 375#

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 4-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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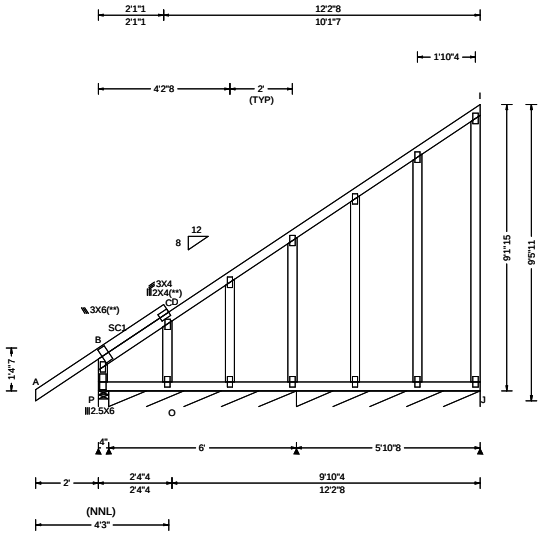
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336957 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J10	Cust: R 215 JRef:1WZ32150005 T49 DrwNo: 273.20.1421.15947 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	H	999	240
VERT(CL): 0.005	H	999	180
HORZ(LL): -0.027	B	-	-
HORZ(TL): 0.052	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.052
Max Web CSI: 0.360

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	601	/-	/-	/387	/198	/127
P*	133	/-	/-	/66	/-	/-
J*	143	/-	/-	/58	/-	/-

Wind reactions based on MWFRS
P Brg Width = 4.0 Min Req = 1.5
P Brg Width = 72.0 Min Req = -
J Brg Width = 70.5 Min Req = -
Bearings P, P, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - P	332	-588

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;

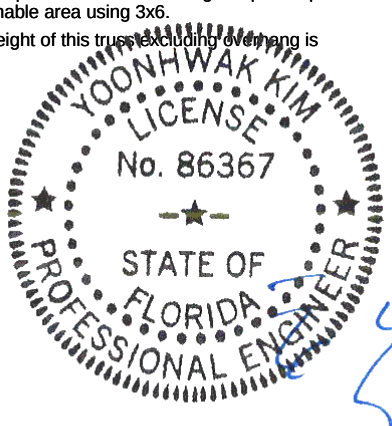
Bracing
Fasten rated sheathing to one face of this frame.

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.

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
See DWGS A14015ENC160118 & 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 9-1-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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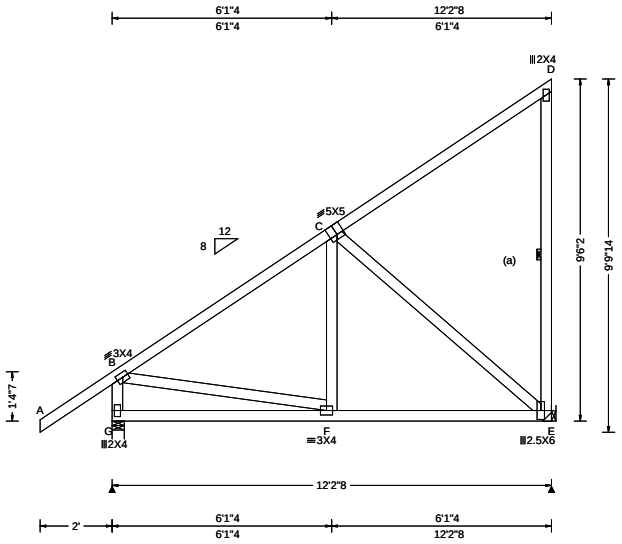
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336958 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J11	Cust: R 215 JRef:1WZ32150005 T40 DrwNo: 273.20.1421.17860 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	F	999	240
VERT(CL): 0.014	F	999	180
HORZ(LL): -0.004	D	-	-
HORZ(TL): 0.007	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.634
Max BC CSI: 0.194
Max Web CSI: 0.543

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
G	662	/-	/-		/433	/-	/234
E	502	/-	/-		/408	/111	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	0	-527

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	175	-477

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - G	138	-615	C - E	321	-463

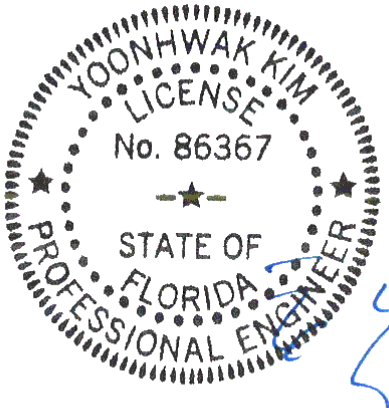
Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;

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

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
The overall height of this truss excluding overhang is 9-6-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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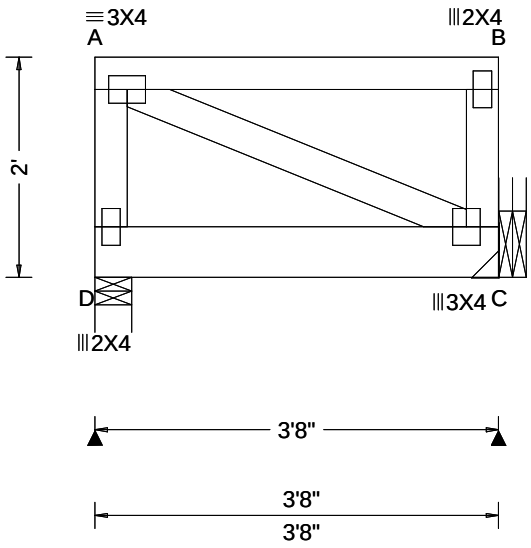
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336981 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J12	Cust: R 215 JRef:1WZ32150005 T59 DrwNo: 273.20.1421.19763 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.233
Max BC CSI: 0.241
Max Web CSI: 0.041

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	366	/-	/-	/-	/77	/-
C	429	/-	/-	/-	/91	/-

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

Lumber

Value Set: NDS 2015

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

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.67
BC: From 20 plf at 0.00 to 20 plf at 3.67
BC: 502 lb Conc. Load at 2.06

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

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.

Additional Notes

Truss must be installed as shown with top chord up.

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

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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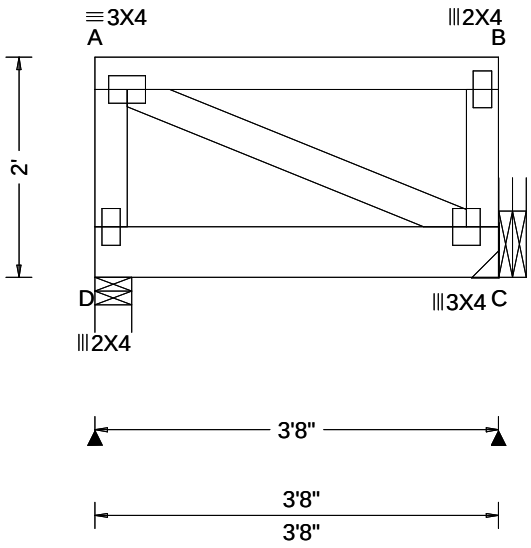
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336979 FLAT FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J13	Cust: R 215 JRef:1WZ32150005 T60 DrwNo: 273.20.1421.21497 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.233
Max BC CSI: 0.196
Max Web CSI: 0.041

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	322	/-	/-	/-	/68	/-
C	372	/-	/-	/-	/79	/-

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

Lumber

Value Set: NDS 2015

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

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 60 plf at 0.00 to 60 plf at 3.67
BC: From 20 plf at 0.00 to 20 plf at 3.67
BC: 401 lb Conc. Load at 2.06

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

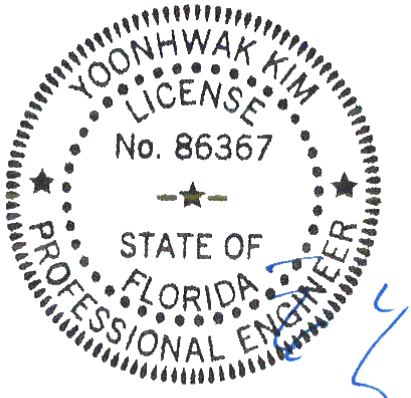
Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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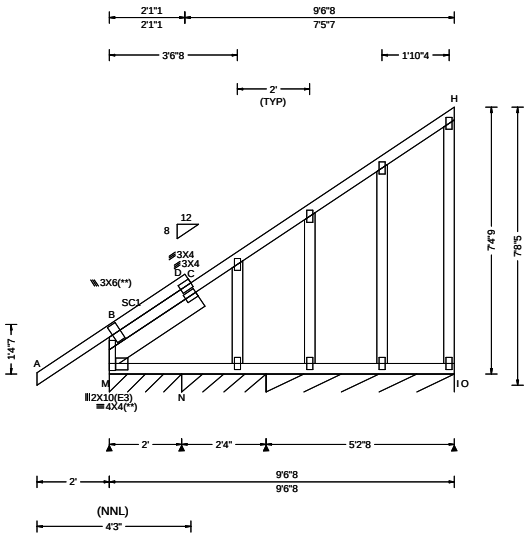
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336992 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J14	Cust: R 215 JRef:1WZ32150005 T61 DrwNo: 273.20.1421.23780 / YK 09/29/2020



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

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

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.008	C	999	240
VERT(CL): 0.015	C	999	180
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.855
Max BC CSI: 0.095
Max Web CSI: 0.095

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M*	314	/-	/-	/202	/93	/65
N*	164	/-	/-	/95	/-	/-
O*	153	/-	/-	/65	/-	/-

Wind reactions based on MWFRS
M Brg Width = 24.0 Min Req = -
N Brg Width = 28.0 Min Req = -
O Brg Width = 62.5 Min Req = -
Bearings M, N, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	402	- 214

Lumber

Value Set: NDS 2015

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 3.077'

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.

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

Right end vertical not exposed to wind pressure.

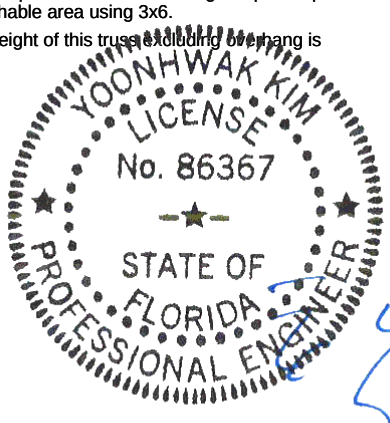
Wind loading based on gable roof types.

Additional Notes

See DWGS A14015ENC160118 & 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 7-4-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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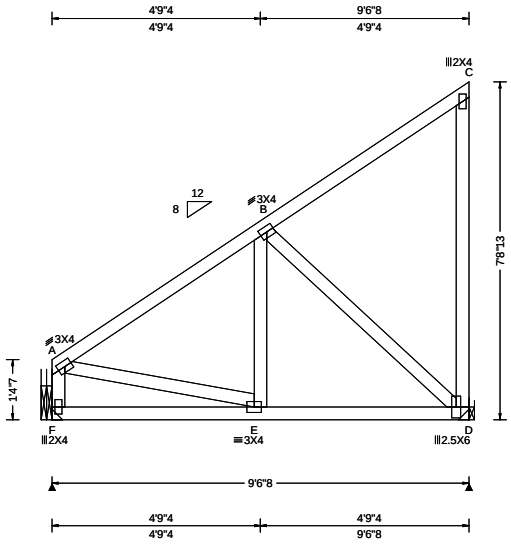
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336960 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** J15	Cust: R 215 JRef:1WZ32150005 T47 DrwNo: 273.20.1421.25343 / YK 09/29/2020



Loading Criteria (psf)

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

Wind Criteria

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

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	E	999	240
VERT(CL): 0.008	E	999	180
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.421
Max BC CSI: 0.309
Max Web CSI: 0.276

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	401	/-	/-	/239	/-	/163
D	401	/-	/-	/327	/91	/-

Wind reactions based on MWFRS
F Brg Width = - Min Req = -
D Brg Width = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	0	-400

Lumber

Value Set: NDS 2015

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

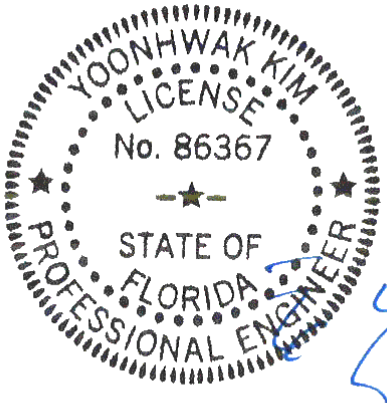
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on gable roof types.

Additional Notes

The overall height of this truss excluding overhang is 7-8-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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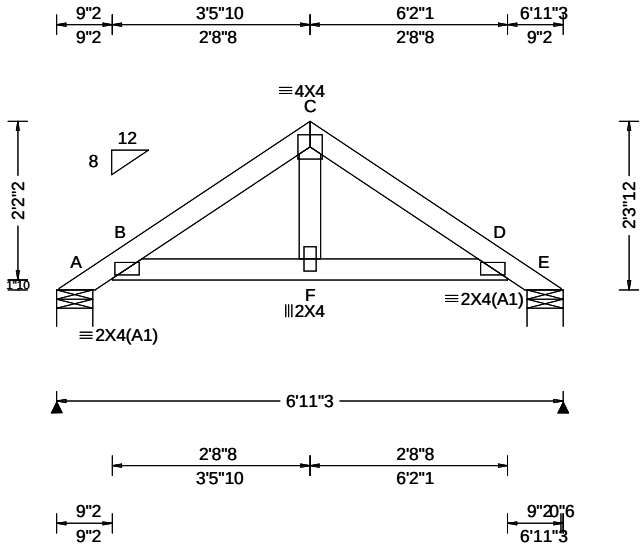
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336994 SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** PB01	Cust: R 215 JRef:1WZ32150005 T53 DrwNo: 273.20.1421.27170 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.69 ft
TCDL: 5.0 psf
BCDL: 1.2 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.006	C	999	240
VERT(CL): 0.009	F	999	180
HORZ(LL): -0.003	F	-	-
HORZ(TL): 0.005	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.149
Max BC CSI: 0.085
Max Web CSI: 0.039

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	13	/-	/-	/158	/96	/64
E	24	/-	/-	/158	/96	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
E Brg Width = 5.9 Min Req = 1.5
Bearings A & E are a rigid surface.
Members not listed have forces less than 375#

Lumber

Value Set: NDS 2015

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

Wind loads based on MWFRS.

Wind loading based on gable roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-3-12.

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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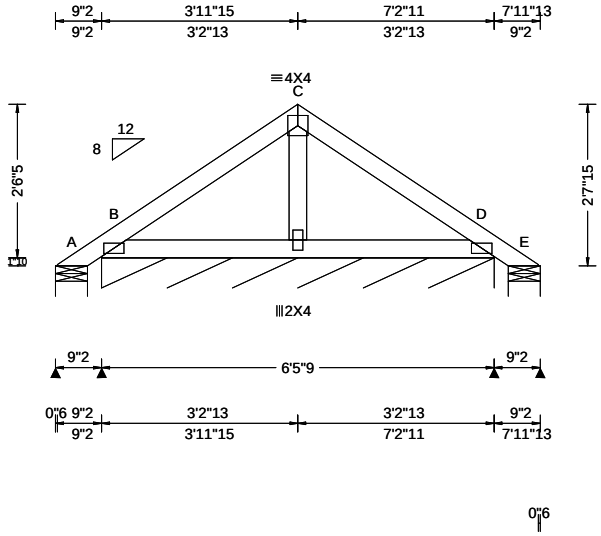
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336961 GABL FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 20-4327 Otero **Truss Label:** PB02	Cust: R 215 JRef:1WZ32150005 T36 DrwNo: 273.20.1421.28967 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 20.86 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.324
Max BC CSI: 0.122
Max Web CSI: 0.018

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-103	/-	/124	/148	/141
B*	229	/-	/-	/105	/73	/-
E	-	/-104	/-	/62	/69	/-
D		/-128				

Wind reactions based on MWFRS
A Brg Width = 6.3 Min Req = 1.5
B Brg Width = 77.6 Min Req = -
E Brg Width = 6.3 Min Req = 1.5
Bearings A, B, & E are a rigid surface.
Members not listed have forces less than 375#

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

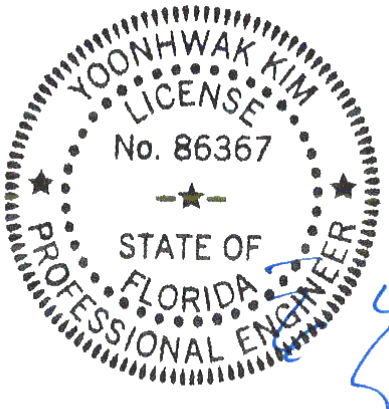
Plating Notes
All plates are 2X4(A1) except as noted.

Loading
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.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

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

Additional Notes
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 13-2-3.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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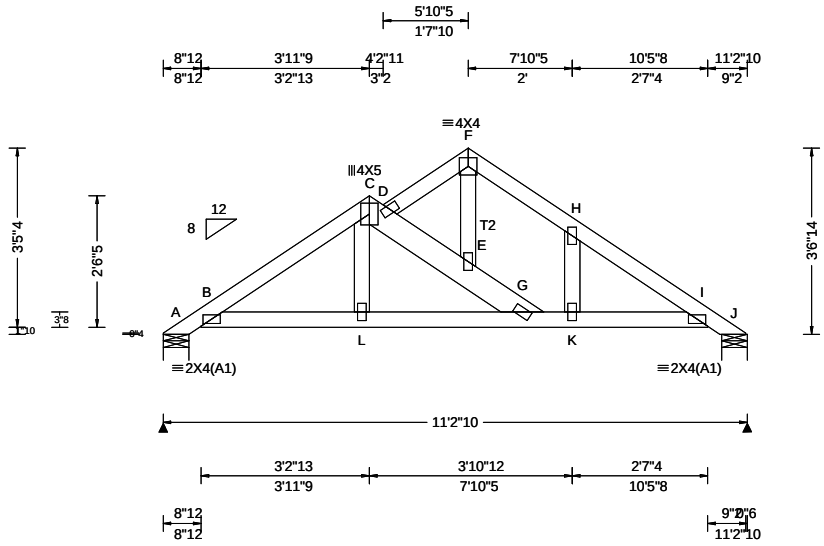
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336962 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** PB03	Cust: R 215 JRef:1WZ32150005 T17 DrwNo: 273.20.1421.30240 / YK 09/29/2020	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.016 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 E - -
NCBCLL: 10.00	Mean Height: 21.32 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.059
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.058
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.041
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	22	/-	/-	/112	/-	/-
J	23	/-	/-	/113	/-	/-

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
J Brg Width = 5.9 Min Req = 1.5
Bearings A & J are a rigid surface.
Members not listed have forces less than 375#

Lumber

Value Set: NDS 2015

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

Wind

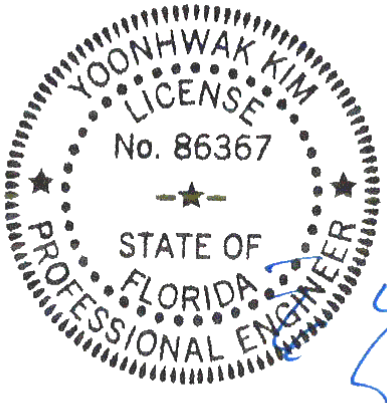
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on gable roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 3-6-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
09/29/2020

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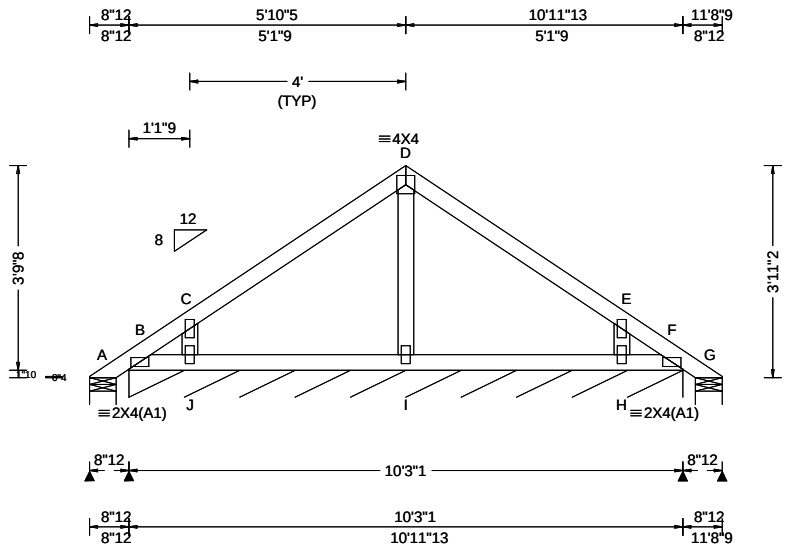
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336963 GABL FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 20-4327 Otero **Truss Label:** PB04	Cust: R 215 JRef:1WZ32150005 T32 DrwNo: 273.20.1421.31607 / YK 09/29/2020	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.26 ft
Loc. from endwall: not in 8.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.630
Max BC CSI: 0.074
Max Web CSI: 0.131

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	57	/-	/-	/147	/120	/231
B*	178	/-	/-	/90	/24	/-
G	55	/-	/-	/34	/9	/-
J		/-350				
H		/-351				
F		/-114				

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 123 Min Req = -
G Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	373	- 713	H - E	373	- 724

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.
D - I	39	- 482

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

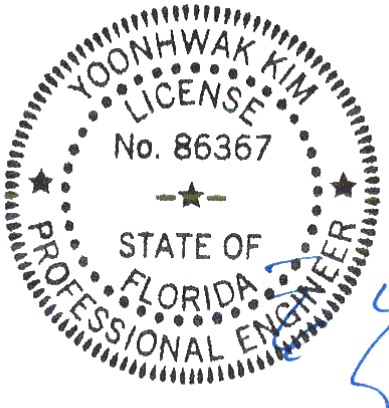
Plating Notes
All plates are 2X4 except as noted.

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

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

Additional Notes
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 14-5-6.



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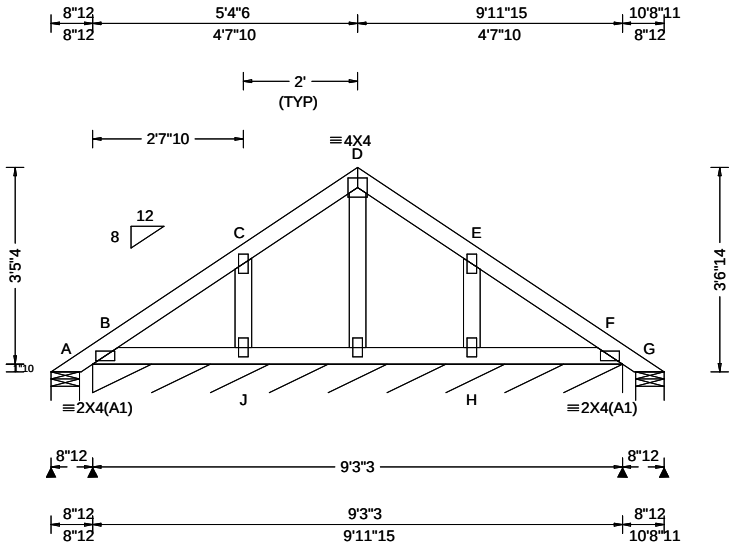
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 336964 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4327 Otero **Truss Label:** PB05	Cust: R 215 JRef:1WZ32150005 T54 DrwNo: 273.20.1421.34900 / YK 09/29/2020



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 21.31 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 8.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

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

Creep Factor: 2.0
Max TC CSI: 0.206
Max BC CSI: 0.073
Max Web CSI: 0.088

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-11	/-	/133	/126	/203
B*	210	/-	/-	/127	/35	/-
G	-	/-13	/-	/15	/18	/-
B		/-102				
J		/-182				
H		/-135				

Wind reactions based on MWFRS
A Brg Width = 5.9 Min Req = 1.5
B Brg Width = 111 Min Req = -
G Brg Width = 5.9 Min Req = 1.5
Bearings A, B, & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	191	-415	H - E	146	-458

Lumber
Value Set: NDS 2015
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins
In lieu of rigid ceiling use purlins to brace BC @ 24" oc.

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

Additional Notes
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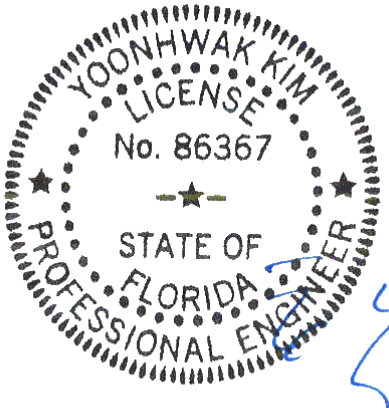
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 14-1-2.



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

Gable Stud Reinforcement Detail

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

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" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

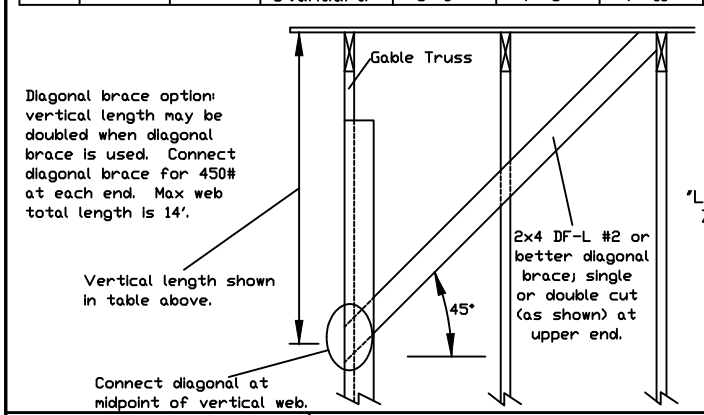
"L" bracing must be a minimum of 80% of web member length.

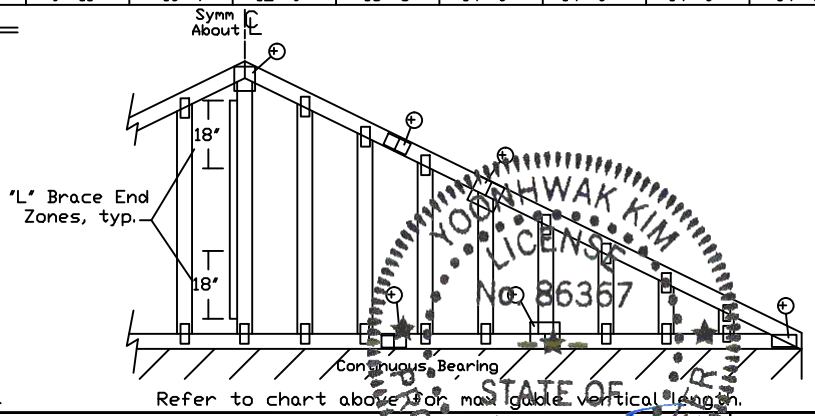
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





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

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For more information see this job's general notes page and these web sites:
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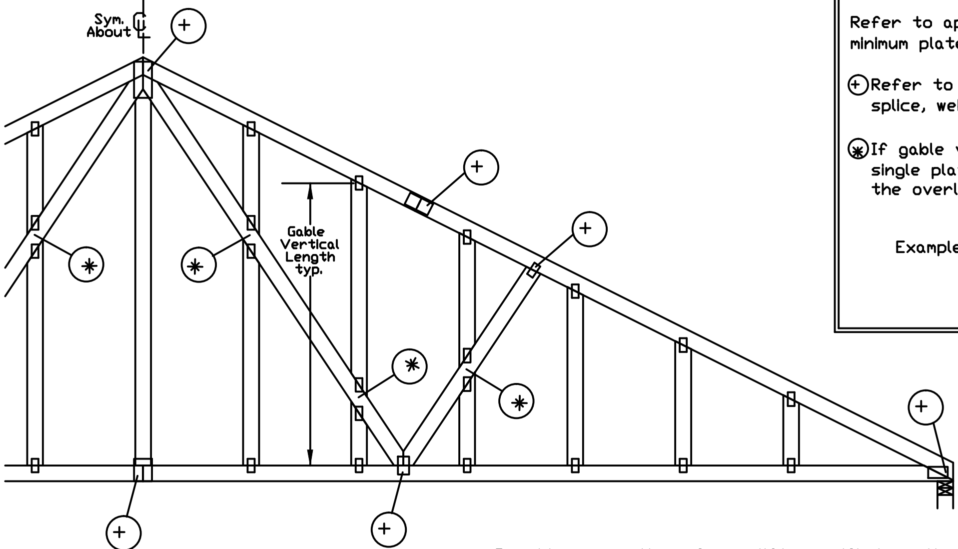
MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB14015
DATE	01/26/2018
DRWG	A14015ENC160118

Gable Detail

For Let-in Verticals



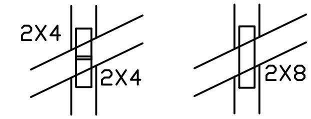
Gable Truss Plate Sizes

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

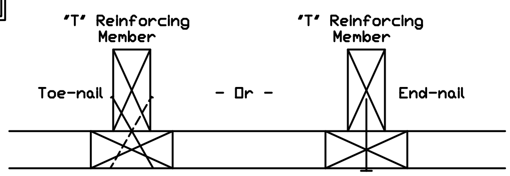
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



'T' Reinforcement Attachment Detail



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

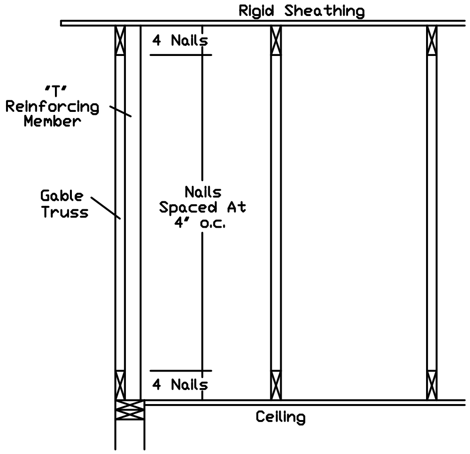
Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'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	'T' 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"x3",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, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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

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

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

10/29/2020 FL-RFO# 278, Yoonhwak Kim, FL PE #86367

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118
MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

CLR Reinforcing Member Substitution

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

Notes:

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

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

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

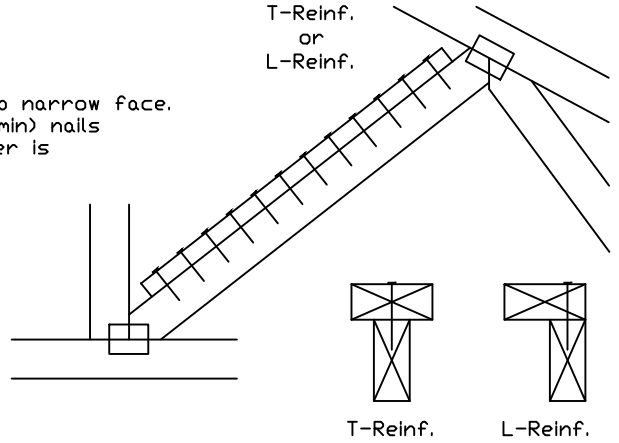
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

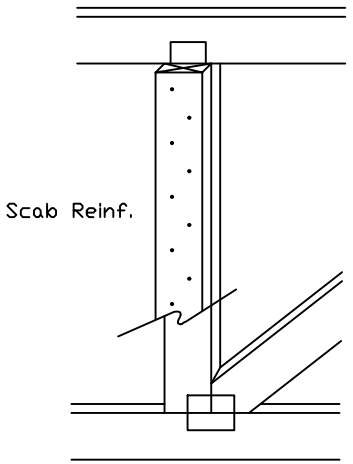
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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

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

Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

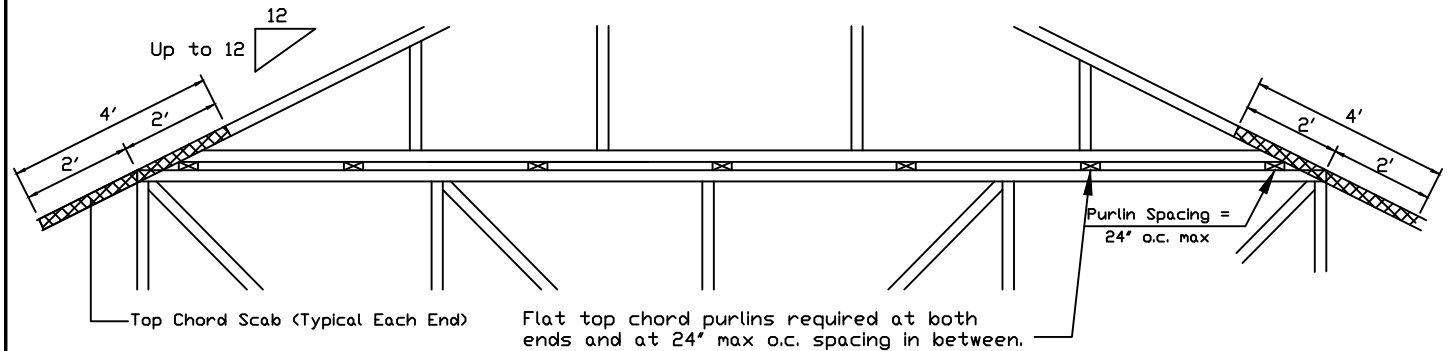
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



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

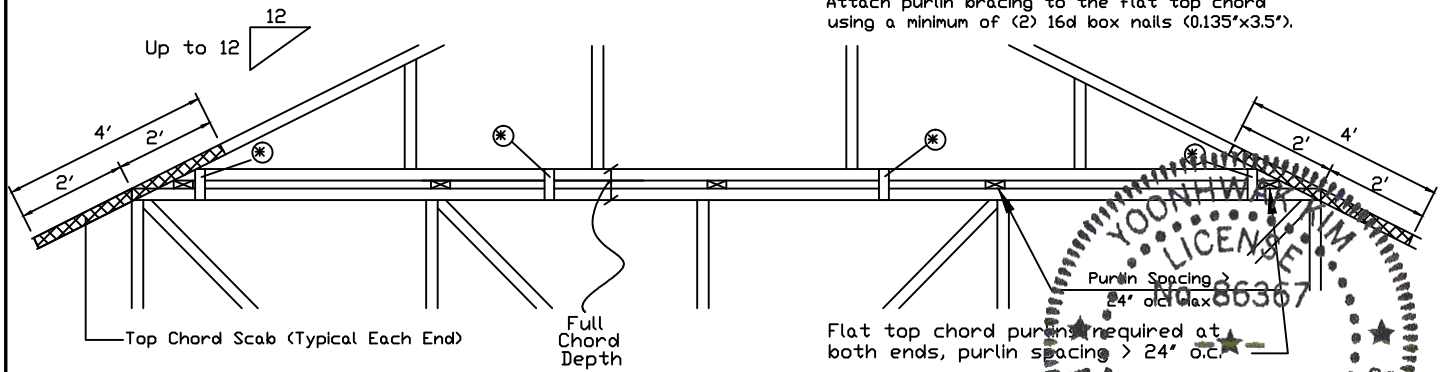
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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



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

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

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

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

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

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

YOONHWAK KIM LICENSE NO. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118
SPACING	24.0"

Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

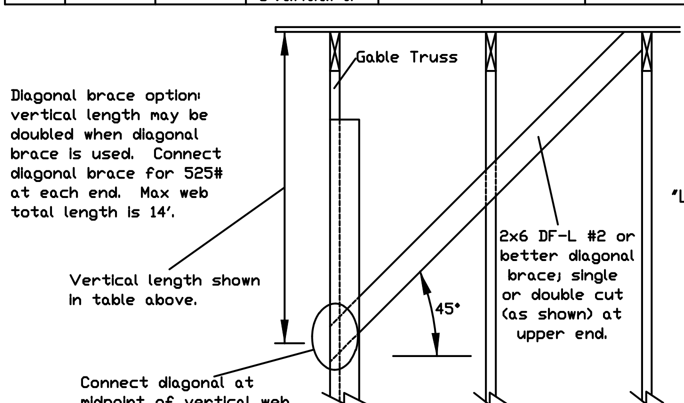
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

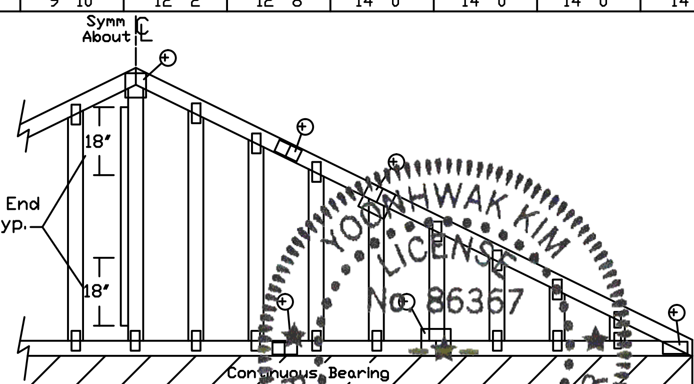
Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.





Refer to chart above for max gable vertical length.

Attach "L" braces with 10d (0.128"x3.0" min) nails.
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.
**For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

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

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YOONHWAK KIM LICENSE No 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/29/2020
FL REG# 278, Yoonhwak Kim, FL PE #86367

REF	ASCE7-16-GAB14030
DATE	01/26/2018
DRWG	A14030ENC160118

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"