

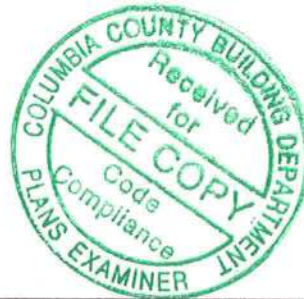


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FL REG# 278, Yoonhwak Kim, FL PE #86367

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Orlando, FL 32821
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Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3758
Job Description: /Lloyd /CASTAGNA CONST.	
Address: LAKE CITY, FL	

Job Engineering Criteria:			
Design Code: FBC 2017 RES		IntelliVIEW Version: 18.02.01B	
		JRef #: 1WQM2150002	
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00	
Building Type: Closed		Floor Load (psf): None	

This package contains general notes pages, 34 truss drawing(s) and 3 detail(s).

Item	Seal #	Truss
1	336.19.0957.45103	A01
3	336.19.0957.52050	A03
5	336.19.0957.55050	A05
7	336.19.0957.57463	A07
9	336.19.0957.59900	A09
11	336.19.0958.02407	B01
13	336.19.0958.05337	B03
15	336.19.0958.08290	B05
17	336.19.0958.11120	B07
19	336.19.0958.15113	C01
21	336.19.0957.28253	C03
23	336.19.0957.30397	D02
25	336.19.0957.32640	G01
27	336.19.0957.34687	G03
29	336.19.0957.38067	J01
31	336.19.0957.40000	J03
33	336.19.0957.42210	J05
35	BRCLBSUB0119	
37	GBLLETIN0118	

Item	Seal #	Truss
2	336.19.0957.46247	A02
4	336.19.0957.53420	A04
6	336.19.0957.56253	A06
8	336.19.0957.58690	A08
10	336.19.0958.01133	A10
12	336.19.0958.03703	B02
14	336.19.0958.06690	B04
16	336.19.0958.09670	B06
18	336.19.0958.12403	B08
20	336.19.0957.27057	C02
22	336.19.0957.29283	D01
24	336.19.0957.31510	D03
26	336.19.0957.33727	G02
28	336.19.0957.35680	G04
30	336.19.0957.38967	J02
32	336.19.0957.40970	J04
34	336.19.0957.43540	J06
36	A14015ENC10101 4	

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 AF&PA. 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.

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.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

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.

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 immediate vertical Deflection, 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(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:

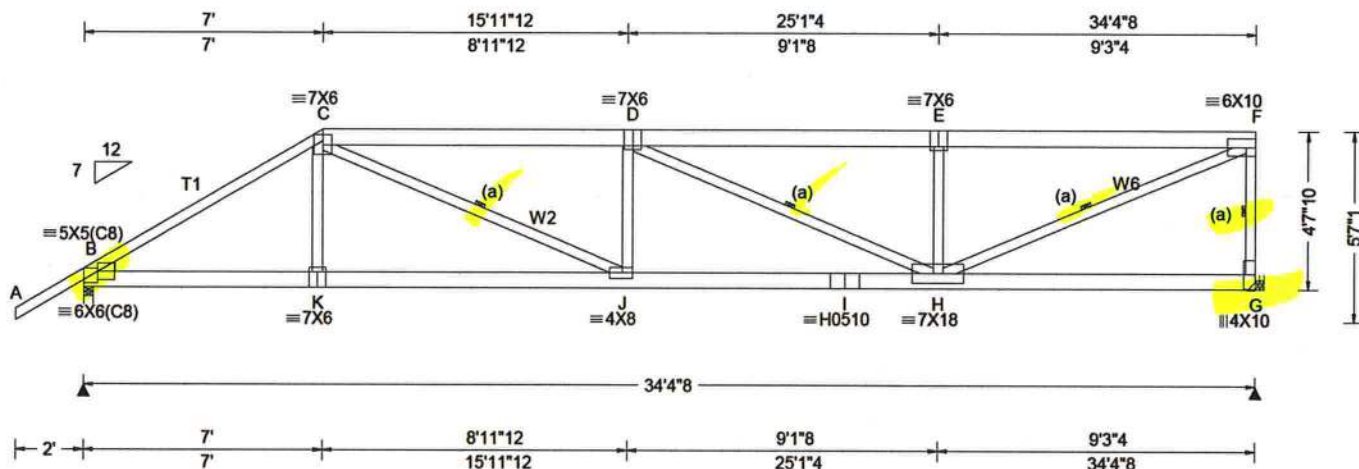
1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.

2. ICC: International Code Council; www.iccsafe.org.

3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.

4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.

5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.301 D 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.607 D 677 240	B	3353	-/-	-/-	-/-	1775	-/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.064 C - -	G	3457	-/-	-/-	-/-	1790	-/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.129 C - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Creep Factor: 2.0	B	Brg Width = 3.5		Min Req = 2.8			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.826	G	Brg Width = -		Min Req = -			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.662	Bearing B is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.816	Members not listed have forces less than 375#						
	C&C Dist a: 3.44 ft			Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 9.00 ft			Chords	Tens.Comp.		Chords	Tens. Comp.		
	GCpi: 0.18			B - C	1291 - 5664		D - E	1382 - 6062		
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	C - D	1700 - 7466		E - F	1382 - 6062		
Lumber		Additional Notes								

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

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -2.00 to 63 plf at 7.00
TC: From 32 plf at 7.00 to 32 plf at 34.38
BC: From 5 plf at -2.00 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 34.38
TC: 345 lb Conc. Load at 7.03
TC: 192 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06
33.06
BC: 400 lb Conc. Load at 7.03
BC: 132 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,31.06
33.06

Hangers / Ties

(J) Hanger Support Required, by others

Wind

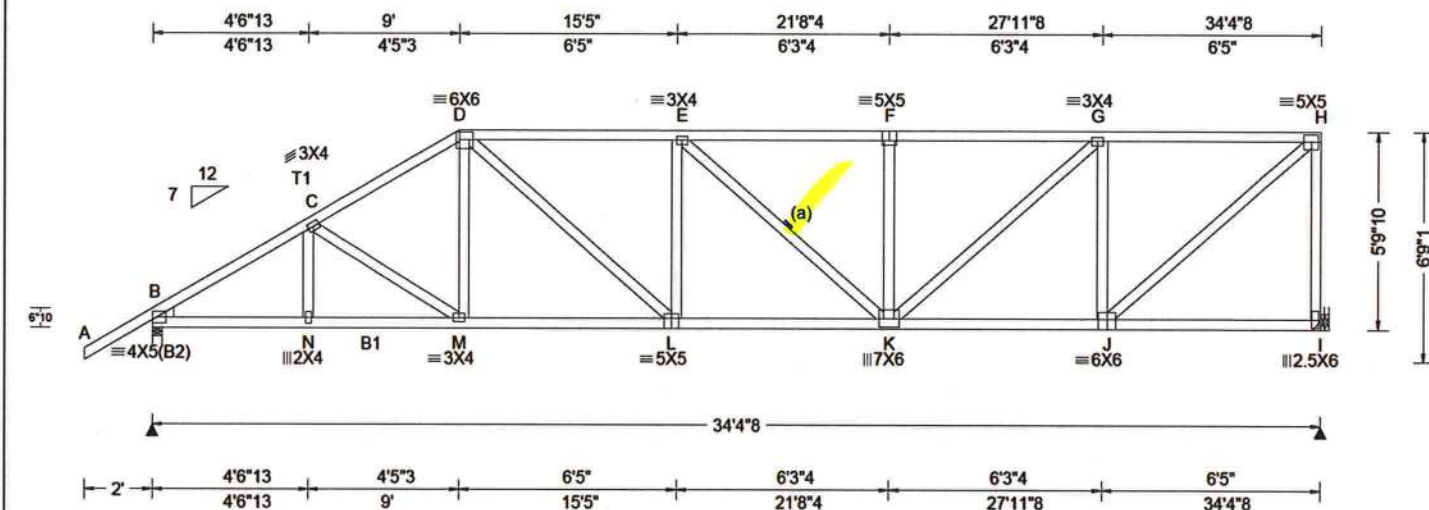
Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.



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12/02/2019

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist at: 3.44 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.125 E 999 240 VERT(CL): 0.258 E 999 240 HORZ(LL): 0.037 J - - HORZ(TL): 0.077 J - - Creep Factor: 2.0 Max TC CSI: 0.692 Max BC CSI: 0.678 Max Web CSI: 0.819 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1572 /- /- /946 /274 /183 I 1422 /- /- /722 /273 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 I 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 505 -2255 E - F 551 -2099 C - D 524 -2063 F - G 551 -2099 D - E 594 -2218 G - H 359 -1372

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

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

Hangers / Ties
Simpson Construction Hardware is specified based on the most current information provided by Simpson Strong-Tie. Please refer to the most recent Simpson Strong-Tie catalog for additional information.

Recommended hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Hanger specified assumes connection to supporting chord is located a minimum of five times the depth of the supporting chord from any unsupported end, unless unsupported chord end has 85% plating coverage.

Bearing at location x=34'1"8 uses the following support conditions: 34'1"8

Bearing I (34'1"8, 9') HUS26

Supporting Member: (2)2x6 SP 2400F-2.0E

(14) 0.148"x3" nails into supporting member,

(4) 0.148"x3" nails into supported member.

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

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

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B - N 1847 -549 L - K 2233 -600
N - M 1847 -550 K - J 1428 -377
M - L 1739 -492

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
D - L 637 -145 J - H 1826 -478
K - G 903 -235 H - I 395 -1371
G - J 340 -1066



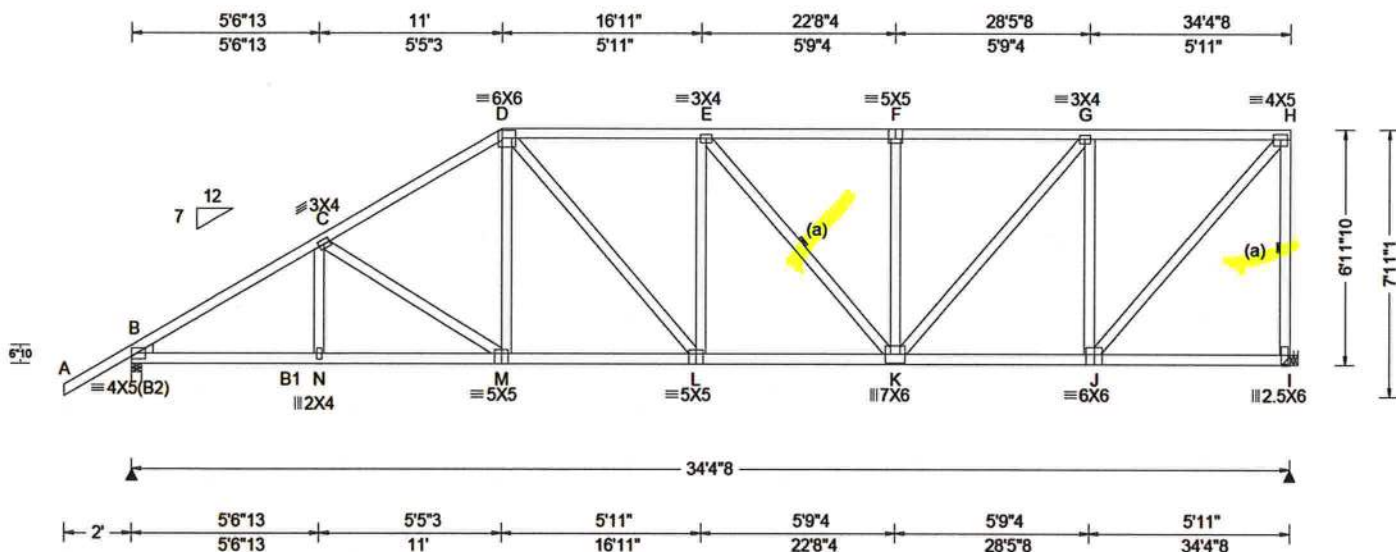
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Alpine, a division of ITW Building Components Group Inc, shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A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

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

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.44 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.110 E 999 240 VERT(CL): 0.227 E 999 240 HORZ(LL): 0.036 J - - HORZ(TL): 0.075 J - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.570 Max Web CSI: 0.947 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1572 /- /- /967 /266 /216 I 1422 /- /- /733 /278 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 I 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 485 -2269 E - F 445 -1666 C - D 488 -1948 F - G 445 -1666 D - E 505 -1848 G - H 281 -1056

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B1 2x4 SP M-31; Webs: 2x4 SP #3; Lt Wedge: 2x4 SP #3;	Chords Tens.Comp. Chords Tens. Comp. B - N 1861 -559 L - K 1854 -508 N - M 1860 -560 K - J 1104 -296 M - L 1614 -465

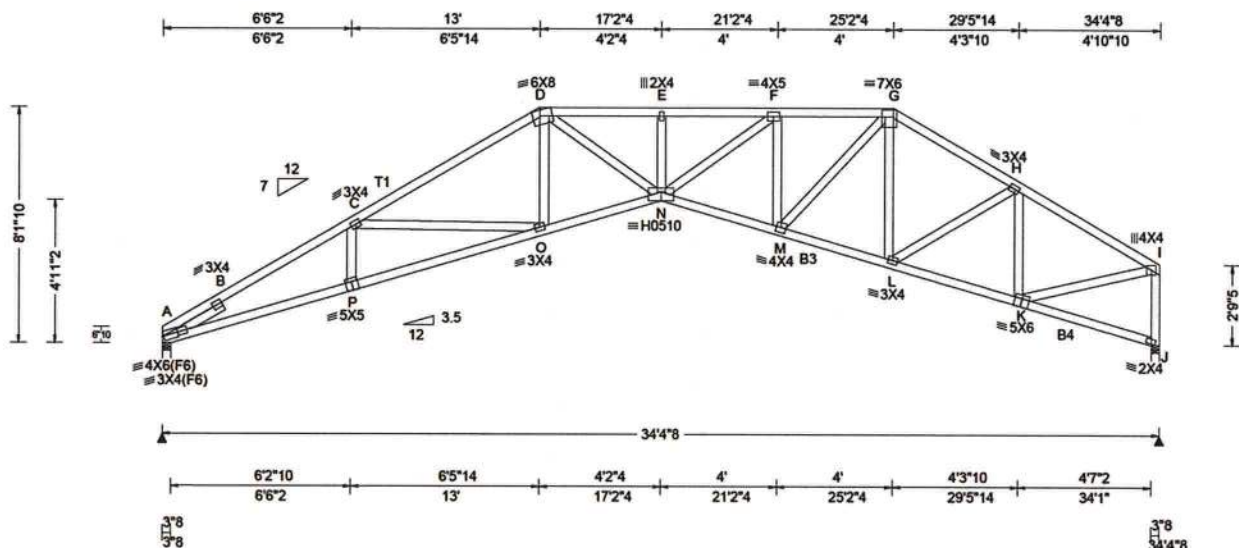
Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. K - G 873 -232 J - H 1615 -430 G - J 347 -1093 H - I 400 -1375

Hangers / Ties	Wind
(J) Hanger Support Required, by others	Wind loads based on MWFRS with additional C&C member design. Right end vertical not exposed to wind pressure.

Additional Notes

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

FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		Maximum Reactions (lbs)	
TCLL:	20.00	Wind Std:	ASCE 7-10	Pg: NA	Ct: NA	PP Deflection in	loc L/defl L/#	Gravity	
TCCL:	10.00	Speed:	130 mph	Pf: NA	Ce: NA	VERT(LL):	0.279 E 999 240	Loc	R+ / R- / Rh
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA	VERT(CL):	0.585 E 702 240	Non-Gravity	
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA	HORZ(LL):	0.217 J - -	/ Rw / U / RL	
Des Ld:	40.00	EXP:	C Kzt: NA			HORZ(TL):	0.456 J - -	Wind reactions based on MWFRS	
NCBCLL:	10.00	Mean Height:	15.00 ft			Creep Factor:	2.0	A Brg Width = 3.5 Min Req = 1.5	
Soffit:	2.00	TCCL:	5.0 psf			Max TC CSI:	0.460	J Brg Width = 3.5 Min Req = 3.5	
Load Duration:	1.25	BCDL:	5.0 psf			Max BC CSI:	0.757	Bearings A & J are a rigid surface.	
Spacing:	24.0"	MWFRS Parallel Dist:	h/2 to h			Max Web CSI:	0.633	Members not listed have forces less than 375#	
		C&C Dist a:	3.44 ft					Maximum Top Chord Forces Per Ply (lbs)	
		Loc. from endwall: not in 9.00 ft						Chords Tens.Comp. Chords Tens. Comp.	
		GCpi:	0.18					VIEW Ver: 18.02.01B.0321.08	
		Wind Duration:	1.60					A - B 952 -4138 E - F 996 -4224	

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B3,B4 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 2.340'

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - P	3581 -822	N - M	3055 -579
P - O	3608 -816	M - L	1954 -350
O - N	2981 -559	L - K	1646 -344

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	239 -590	M - G	1427 -304
D - O	402 -70	H - K	192 -717
D - N	1661 -333	K - I	1567 -333
N - F	1627 -316	I - J	347 -1396
F - M	298 -1247		

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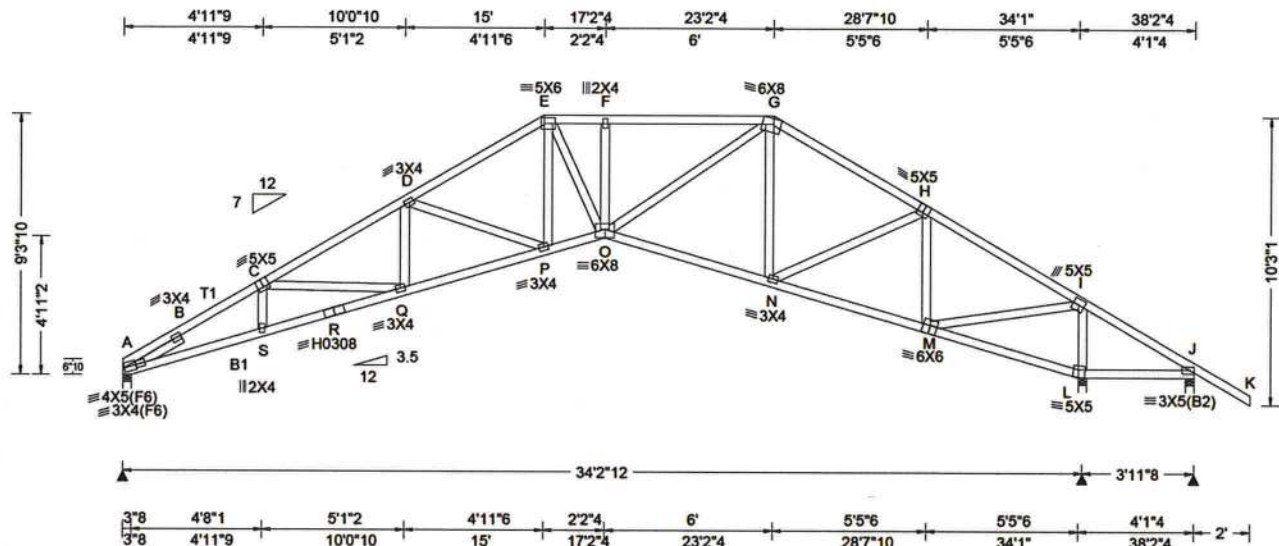
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Suite 200
Maryland Heights, MO 63043

SEQN: 568803
FROM: CDM

HIPS
Ply: 1
Qty: 1

Job Number: 19-3758
/Lloyd /CASTAGNA CONST.
Truss Label: A05

Cust: R 215 JRef: 1WQM2150002 T30
DrwNo: 336.19.0957.55050
SSB / YK 12/02/2019



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)								
TCLL:	20.00	Wind Std:	ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc	L/defl	L/#	Gravity			Non-Gravity				
TCDL:	10.00	Speed:	130 mph	Pf: NA		Ce: NA	VERT(LL):	0.206	P	999	240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL):	0.428	P	951	240	A	1331	/-	/-	/793	/21	/274
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL):	0.157	L	-	-	L	2576	/-	/-	/1356	/2	/1
Des Ld:	40.00	EXP:	C Kzt: NA				HORZ(TL):	0.326	L	-	-	J	-	/-735	/-	/109	/456	/-
NCBCLL:	10.00	Mean Height:	15.00 ft				Creep Factor:	2.0				Wind reactions based on MWFRS						
Soffit:	2.00	TCDL:	5.0 psf				Max TC CSI:	0.816				A	Brg Width = 3.5			Min Req = 1.5		
Load Duration:	1.25	BCDL:	5.0 psf				Max BC CSI:	0.806				L	Brg Width = 3.5			Min Req = 3.0		
Spacing:	24.0 "	MWFRS Parallel Dist:	h to 2h				Max Web CSI:	0.838				J	Brg Width = 3.5			Min Req = 1.5		
		C&C Dist a:	3.82 ft									Bearings A, L, & J are a rigid surface.						
		Loc. from endwall:	not in 9.00 ft									Members not listed have forces less than 375#						
		GCpi:	0.18									Maximum Top Chord Forces Per Ply (lbs)						
		Wind Duration:	1.60									Chords	Tens.Comp.	Chords	Tens. Comp.			

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 2.340'

Wind

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

Additional Notes

Negative reaction(s) of -735# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 9'-3-10".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

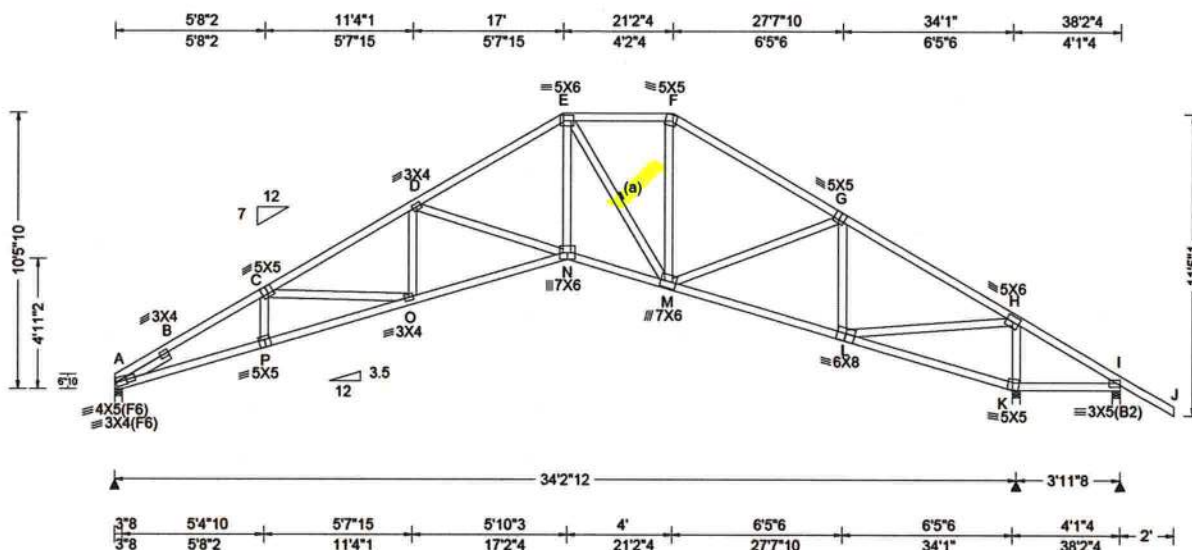
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.82 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.227 O 999 240 VERT(CL): 0.473 O 860 240 HORZ(LL): 0.171 K - - HORZ(TL): 0.356 K - - Creep Factor: 2.0 Max TC CSI: 0.887 Max BC CSI: 0.832 Max Web CSI: 0.896 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1333 /- /- /794 /16 /306 K 2556 /- /- /1371 /- /- I - /-718 /- /115 /459 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 K Brg Width = 3.5 Min Req = 3.0 I Brg Width = 3.5 Min Req = 1.5 Bearings A, 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.

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 2.340'

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

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

Additional Notes
Negative reaction(s) of -718# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Shim all supports to solid bearing.
The overall height of this truss excluding overhang is 10'-5-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Chords	Tens.Comp.	Chords	Tens. Comp.
A - P	3217 -548	M - L	1150 -90
P - O	3245 -540	L - K	368 -1369
O - N	2810 -314	K - I	326 -1237
N - M	2107 -88		

Maximum Web Forces Per Ply (lbs)	Webs	Tens.Comp.	Webs	Tens. Comp.
C - O	205	-402	M - G	427 -112
D - N	264	-768	G - L	171 -832
E - N	1696	-166	L - H	2351 -357
E - M	169	-983	K - H	404 -2005
M - F	533	-62		

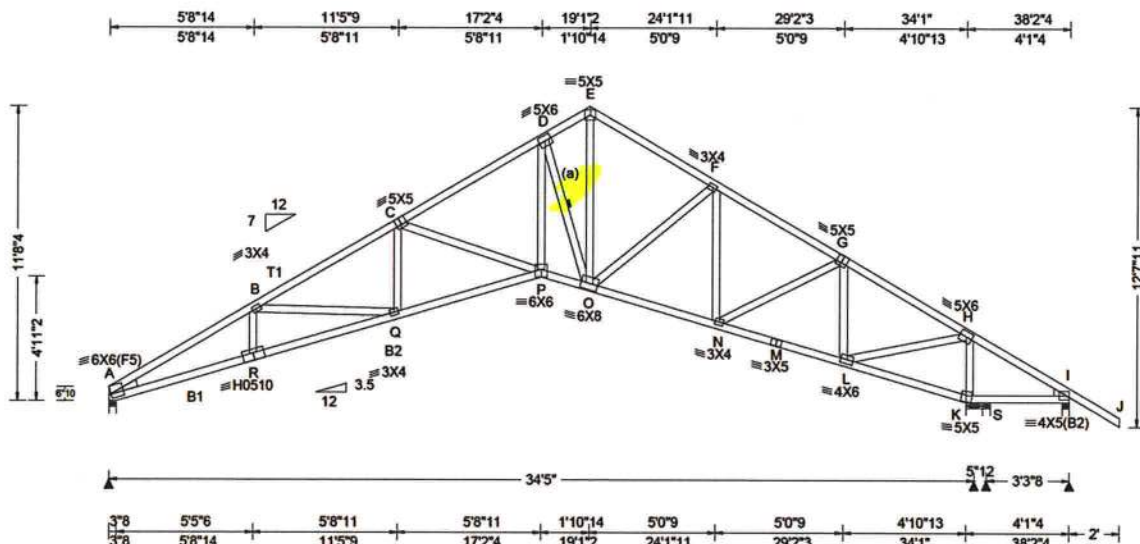
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.82 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.245 Q 999 240 VERT(CL): 0.509 Q 803 240 HORZ(LL): 0.178 K - - HORZ(TL): 0.371 K - - Creep Factor: 2.0 Max TC CSI: 0.849 Max BC CSI: 0.702 Max Web CSI: 0.846 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1308 /- /- /773 /14 /339 K 2641 /- /- /1437 /- /- S 153 /- /- /119 /6 /- I - /-907 /- /122 /609 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 K Brg Width = 8.0 Min Req = 3.1 S Brg Width = 3.5 Min Req = 1.5 I Brg Width = 3.5 Min Req = 1.5 Bearings A, K, S, & 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.

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B1, B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3; Rt Wedge: 2x4 SP #3;

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

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

Additional Notes
Negative reaction(s) of -907# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Shim all supports to solid bearing.
The overall height of this truss excluding overhang is 11-8-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

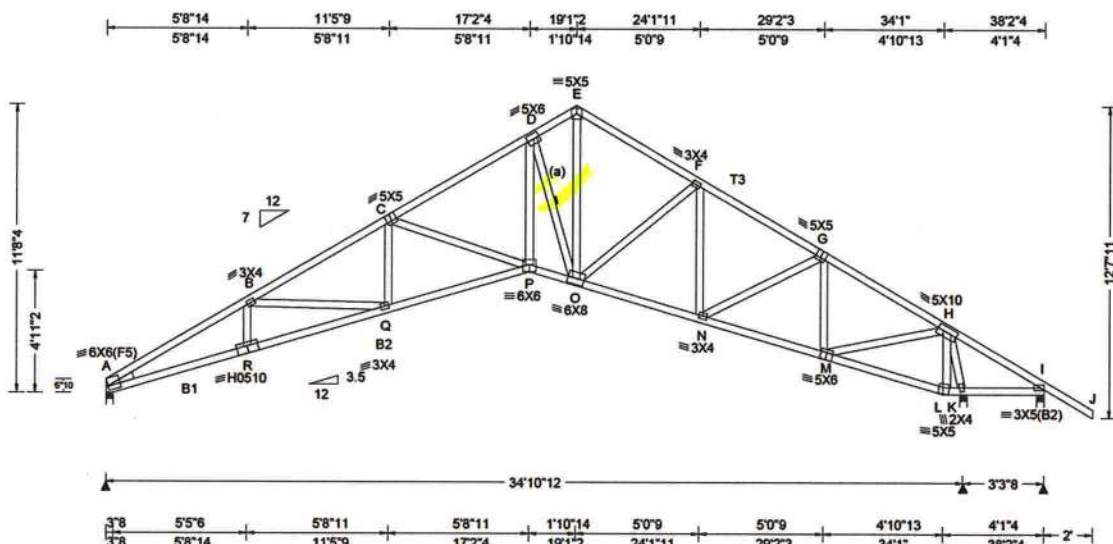
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - R	3115 -485	N - M	683 0
R - Q	3156 -479	M - L	670 -5
Q - P	2783 -251	L - K	371 -1662
P - O	1947 -102	K - I	669 -3037
O - N	1390 -25		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	383 -63	F - N	45 -459
C - P	262 -811	N - G	763 -38
P - D	1613 -132	G - L	172 -1081
D - O	208 -1603	L - H	2222 -291
O - E	1424 -276	K - H	370 -2119

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SEQN: 569201 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: A08	Cust: R215 JRef: 1WQM2150002 T28 DrwNo: 336.19.0957.58690 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.82 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.280 Q 999 240 VERT(CL): 0.591 Q 707 240 HORZ(LL): 0.213 K - - HORZ(TL): 0.454 K - - Creep Factor: 2.0 Max TC CSI: 0.618 Max BC CSI: 0.795 Max Web CSI: 0.709 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1448 - / - /861 /10 /339 K 1908 - / - /1160 /24 - I - - / - /108 - / - Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 K Brg Width = 3.5 Min Req = 1.9 I Brg Width = 3.5 Min Req = 1.5 Bearings A, 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.

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP #2; B1,B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 11'-8-4."



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - R	3505 - 504	O - N	2022 - 57
R - Q	3552 - 499	N - M	1735 - 60
Q - P	3245 - 273	K - I	368 - 438
P - O	2408 - 87		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	262 - 809	G - M	151 - 696
P - D	1862 - 144	M - H	1592 - 268
D - O	215 - 1795	H - K	438 - 1789
O - E	1844 - 294		

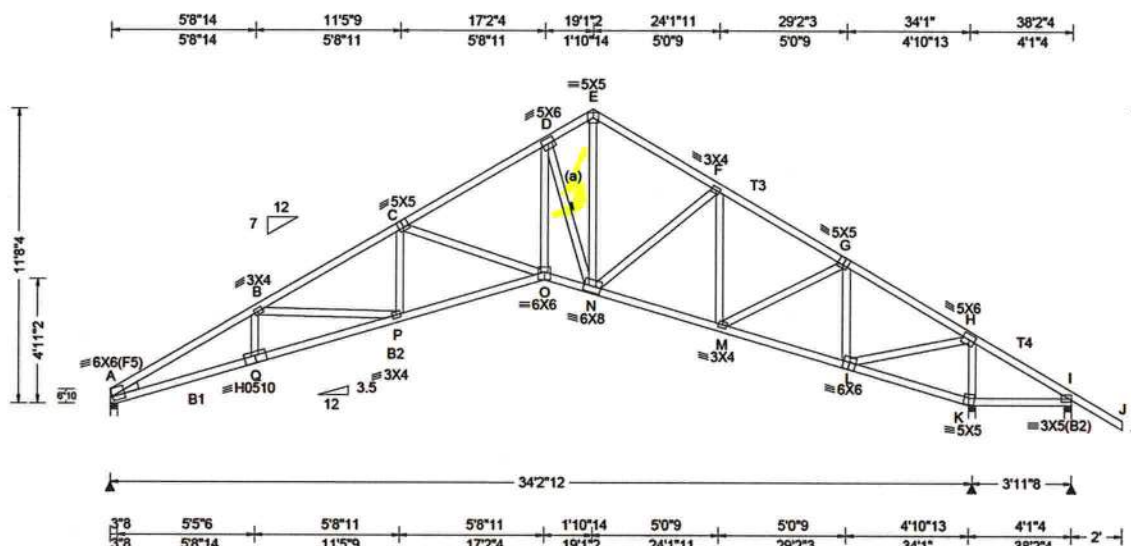
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.241 P 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.502 P 814 240	A 1312 /- /- /776 /14 /339
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.176 K - - K	K 2708 /- /- /1504 /- /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.366 K - -	I - /-848 /- /121 /560 /-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.832	A Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.704	K Brg Width = 3.5 Min Req = 3.2
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.833	I Brg Width = 3.5 Min Req = 1.5
	C&C Dist a: 3.82 ft	FT/RT:20(0)/10(0)		Bearings A, K, & I are a rigid surface.
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE, HS	VIEW Ver: 18.02.01B.0321.08	Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60			Chords Tens Comp Chords Tens Comp

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP #2; B1,B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on member.

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

Negative reaction(s) of -848# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 11-8-4.

A - B	672 - 3624	E - F	343 - 1720
B - C	556 - 3185	F - G	336 - 1609
C - D	386 - 2314	G - H	200 - 807
D - E	376 - 1666	H - I	1782 - 251

Chords	Tens.Comp.	Chords	Tens. Comp.
A - Q	3126 -486	N - M	1408 -28
Q - P	3167 -480	M - L	713 -11
P - O	2797 -252	L - K	367 -1597
O - N	1959 -102	K - I	330 -1455

Webs	Tens.Comp.		Webs	Tens. Comp.	
P - C	382	-63	F - M	46	-448
C - O	262	-814	M - G	751	-38
O - D	1623	-133	G - L	171	-1071
D - N	205	-1598	L - H	2186	-289
N - E	1423	-274	K - H	368	-2090



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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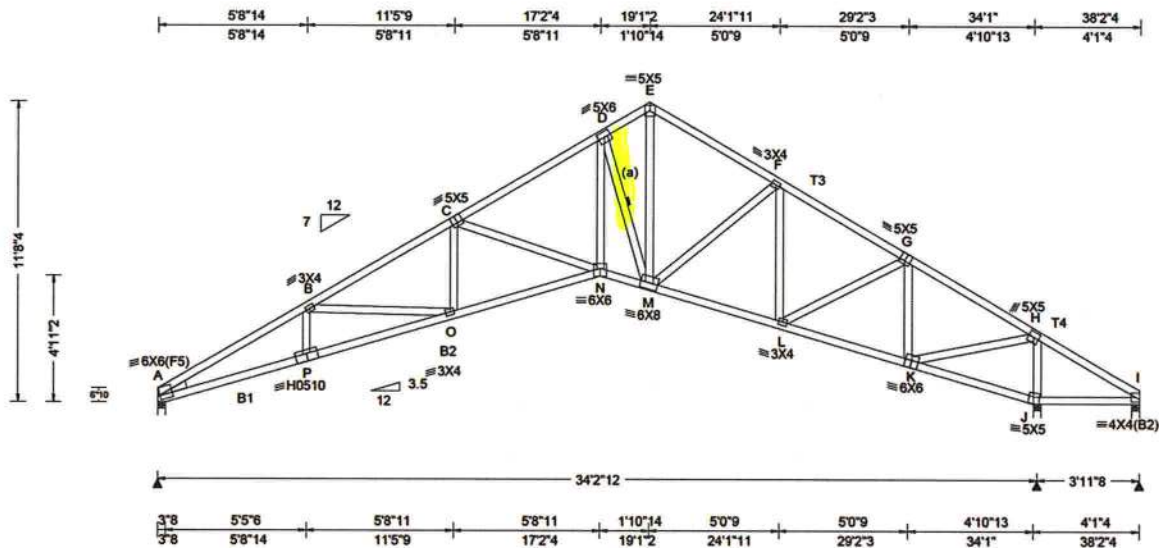
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SEQN: 569205 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: A10	Cust: R 215 JRef: 1WQM2150002 T36 DrwNo: 336.19.0958.01133 SSB / YK 12/02/2019
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-10		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity		Non-Gravity				
TCDL: 10.00		Speed: 130 mph		Pf: NA Ce: NA		VERT(LL): 0.241 O 999 240		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.504 O 811 240		A	1318	/-	/-	/777	/14	/300
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.176 J - -		J	2671	/-	/-	/1487	/-	/-
Des Ld: 40.00		EXP: C Kzt: NA		Code / Misc Criteria		HORZ(TL): 0.370 J - -		I	-	/-892	/-	/27	/553	/-
NCBCLL: 10.00		Mean Height: 15.12 ft				Creep Factor: 2.0		Wind reactions based on MWFRS						
Soffit: 2.00		TCDL: 5.0 psf		Bldg Code: FBC 2017 RES		Max TC CSI: 0.859		A	Brg Width = 3.5		Min Req = 1.5			
Load Duration: 1.25		BCDL: 5.0 psf		TPI Std: 2014		Max BC CSI: 0.708		J	Brg Width = 3.5		Min Req = 3.2			
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes		Max Web CSI: 0.823		I	Brg Width = 3.5		Min Req = 1.5			
		C&C Dist a: 3.82 ft		FT/RT:20(0)/10(0)		Bearings A, J, & 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								
		Loc. from endwall: not in 9.00 ft		Plate Type(s):										
		GCpi: 0.18		WAVE, HS										
		Wind Duration: 1.60				VIEW Ver: 18.02.01B.0321.08								

Lumber

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP #2; B1,B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

Negative reaction(s) of -892# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 11'-8-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - P	3143 -550	M - L	1435 -84
P - O	3184 -545	L - K	754 -60
O - N	2816 -324	K - J	256 -1533
N - M	1979 -58	J - I	222 -1395

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
O - C	381 -62	F - L	45 -436
C - N	262 -813	L - G	735 -38
N - D	1633 -171	G - K	177 -1058
D - M	273 -1607	K - H	2159 -298
M - E	1443 -322	J - H	398 -2076

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

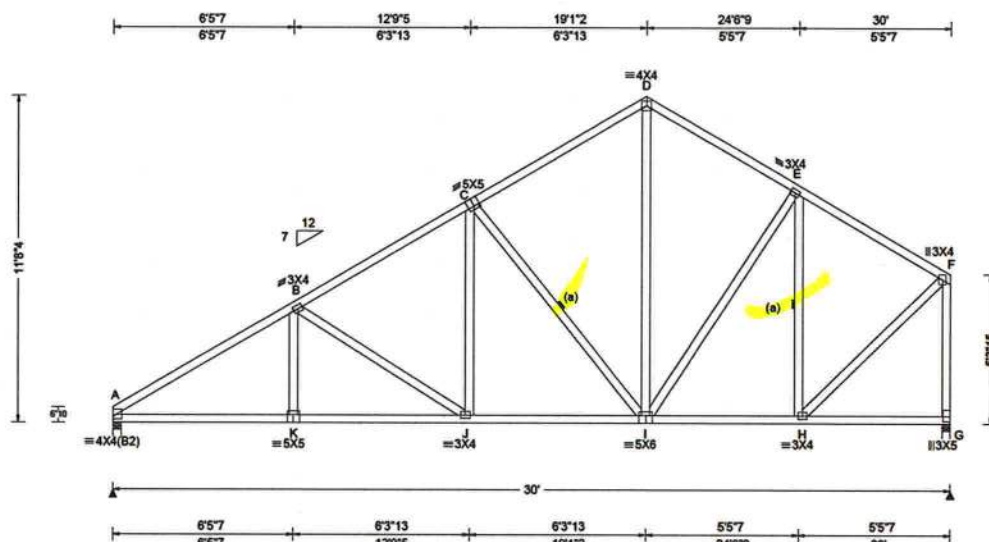
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568779 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: B01	Cust: R 215 JRef: 1WQM2150002 T26 DrwNo: 336.19.0958.02407 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.12 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.072 J 999 240 VERT(CL): 0.150 J 999 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.058 H - - Creep Factor: 2.0 Max TC CSI: 0.548 Max BC CSI: 0.767 Max Web CSI: 0.634 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1250 /- /- /750 /10 /254 G 1245 /- /- /664 /23 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings A & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 379 -1971 D - E 329 -988 B - C 354 -1517 E - F 224 -875 C - D 319 -1004

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

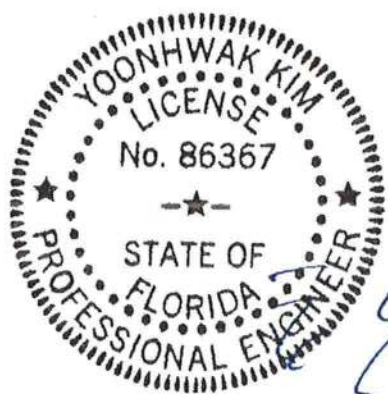
Wind

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

Right end vertical not exposed to wind pressure.

Additional Notes

The overall height of this truss excluding overhang is 11-8.4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - K	1608 -390	J - I	1215 -254
K - J	1607 -390	I - H	709 -134

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - J	167 -457	E - H	143 -537
J - C	452 -73	H - F	956 -180
C - I	224 -697	F - G	280 -1202
D - I	561 -187		

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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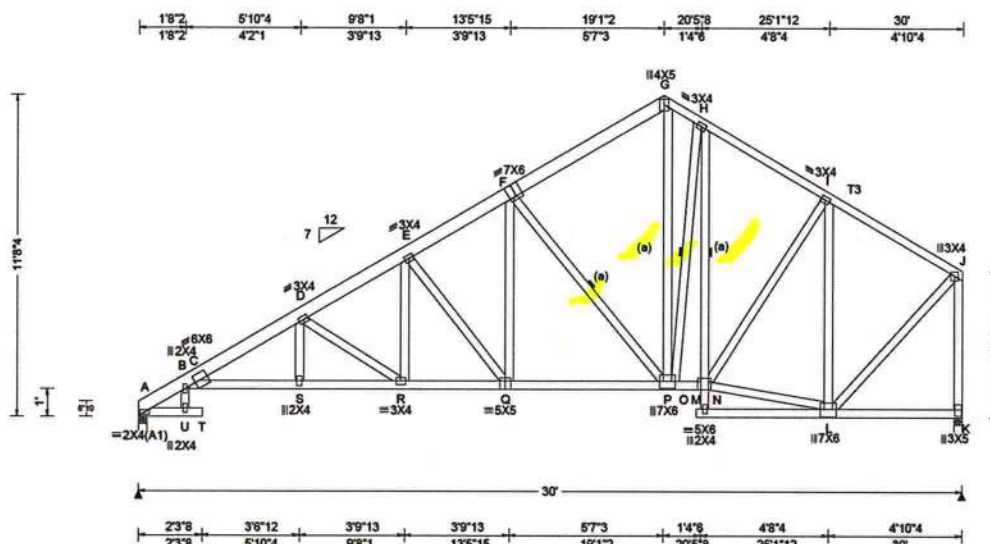
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 569207 FROM: CDM	SPEC Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: B02	Cust: R 215 JRef: 1WQM2150002 T25 DrwNo: 336.19.0958.03703 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.218 T 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.452 T 791 240	A	1252	/-	/-	/751	/9	/253
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.151 L - -	K	1240	/-	/-	/662	/23	/-
	EXP: C Kzt: NA		HORZ(TL): 0.314 L - -	Wind reactions based on MWFRS						
Des Ld: 40.00	Mean Height: 15.12 ft		Creep Factor: 2.0	A	Brg Width = 3.5		Min Req = 1.5			
NCBCLL: 10.00	TCDL: 5.0 psf		Max TC CSI: 0.692	K	Brg Width = 3.5		Min Req = 1.5			
Soffit: 2.00	BCDL: 5.0 psf		Max BC CSI: 0.659	Bearings A & K are a rigid surface.						
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.899	Members not listed have forces less than 375#						
Spacing: 24.0 "	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 9.00 ft			Chords	Tens.Comp.		Chords	Tens. Comp.		
	GCpi: 0.18			A - B	52	-646	F - G	331	-1065	
	Wind Duration: 1.60									
		Code / Misc Criteria								
		Bldg Code: FBC 2017 RES								
		TPI Std: 2014								
		Rep Fac: Yes								
		FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE								
			VIEW Ver: 18.02.01B.0321.08							

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 11-8-4.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
C - S	2399	-584	Q - P	1325	-272
S - R	2396	-583	P - M	858	-135
R - Q	1670	-373			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
D - R	254	-862	G - P	708	-252
R - E	564	-137	M - L	678	-131
E - Q	168	-549	I - L	184	-742
Q - F	539	-115	L - J	960	-184
F - P	243	-775	J - K	278	-1202



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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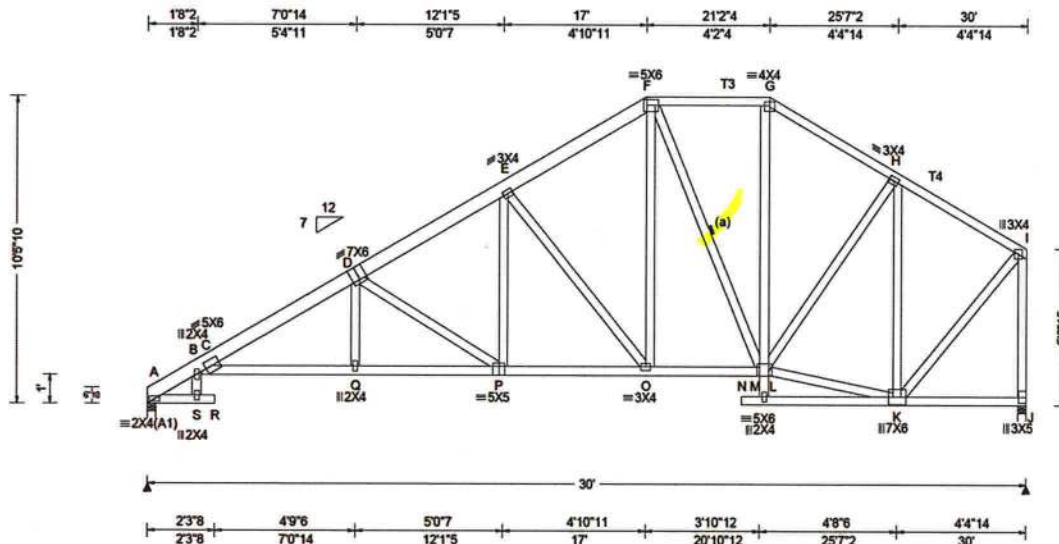
ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568826
FROM: CDM

HIPS
Ply: 1
Qty: 1

Job Number: 19-3758
/Lloyd /CASTAGNA CONST.
Truss Label: B03

Cust: R 215 JRef: 1WQM2150002 T24
DrwNo: 336.19.0958.05337
SSB / YK 12/02/2019



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

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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT: 20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.249 R 999 240
VERT(CL): 0.519 R 690 240
HORZ(LL): 0.168 K - -
HORZ(TL): 0.350 K - -
Creep Factor: 2.0
Max TC CSI: 0.692
Max BC CSI: 0.670
Max Web CSI: 0.869

VIEW Ver: 18.02.01B.0321.08

Maximum Reactions (lbs)
Gravity Non-Gravity
Loc R+ / R- / Rh / Rw / U / RL
A 1253 /- /- /756 /38 /222
J 1241 /- /- /649 /26 /-
Wind reactions based on MWFRS

A Brg Width = 3.5 Min Req = 1.5
J Brg Width = 3.5 Min Req = 1.5
Bearings A & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - B 31 -646 E - F 385 -1250
B - C 38 -559 F - G 331 -865
C - D 524 -2389 G - H 354 -1070
D - E 456 -1814 H - I 219 -793

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
C - Q 2192 -556 P - O 1438 -340
Q - P 2189 -556 O - L 1014 -205

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
D - P 266 -886 L - K 646 -141
P - E 591 -133 H - K 209 -767
E - O 219 -689 K - I 963 -210
F - O 622 -152 I - J 304 -1207
L - H 382 -54

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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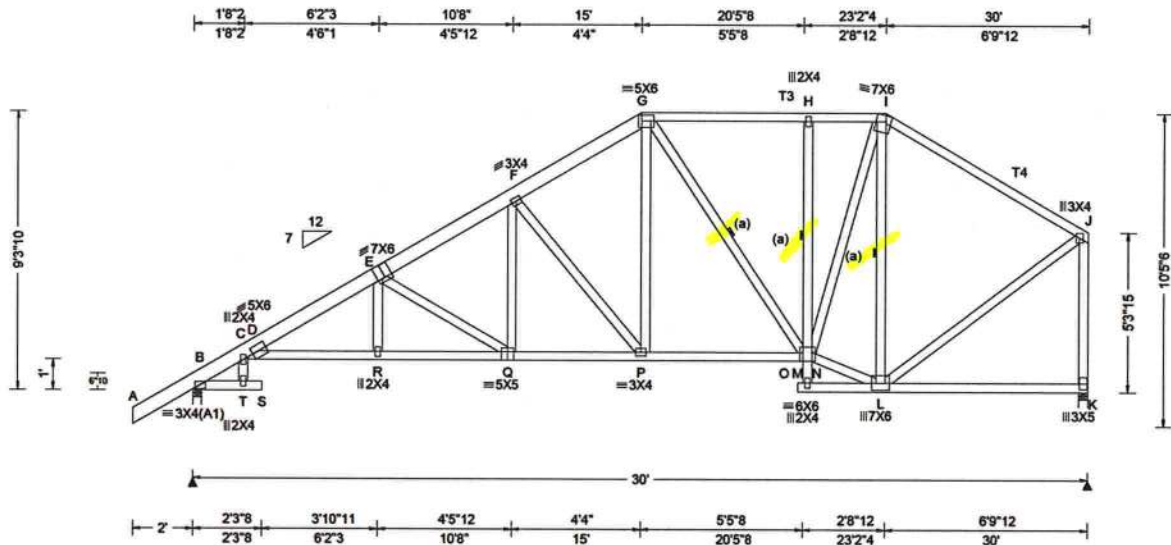
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 569209 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: B04	Cust: R 215 JRef: 1WQM2150002 T23 DrwNo: 336.19.0958.06690 SSB / YK 12/02/2019
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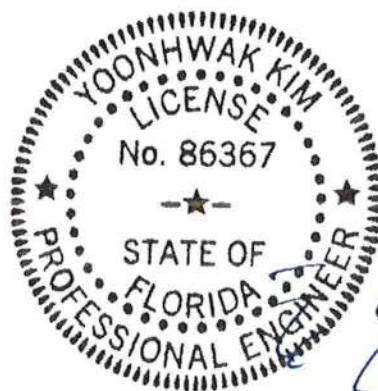
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.213 S 999 240 VERT(CL): 0.437 S 819 240 HORZ(LL): 0.150 L - - HORZ(TL): 0.309 L - - Creep Factor: 2.0 Max TC CSI: 0.800 Max BC CSI: 0.638 Max Web CSI: 0.623 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1393 /- /- /872 /82 /214 K 1236 /- /- /640 /63 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 K Brg Width = 3.5 Min Req = 1.5 Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 31 -640 F - G 419 -1426 C - D 29 -561 G - H 361 -1025 D - E 548 -2455 H - I 360 -1021 E - F 485 -1936 I - J 285 -978

Lumber
Top chord: 2x6 SP 2400f-2.0E; T3, T4 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

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

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

Additional Notes
The overall height of this truss excluding overhang is 9'-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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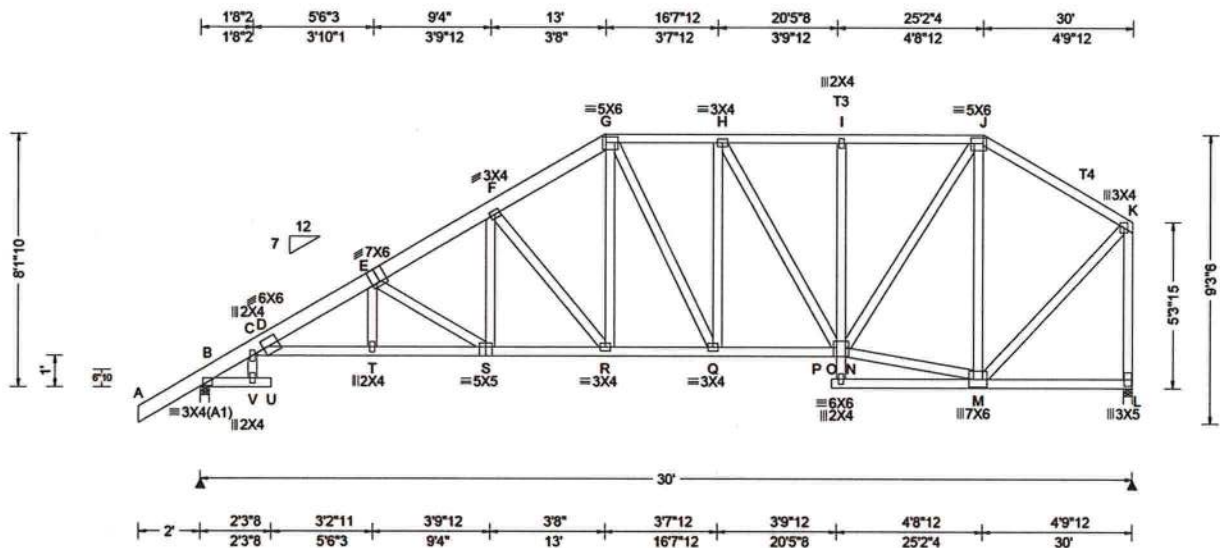
ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 569211
FROM: CDM

HIPS
Ply: 1
Qty: 1

Job Number: 19-3758
/Lloyd /CASTAGNA CONST.
Truss Label: B05

Cust: R 215 JRef: 1WQM2150002 T22
DrwNo: 336.19.0958.08290
SSB / YK 12/02/2019



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

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

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

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.198 U 999 240
VERT(CL): 0.407 U 880 240
HORZ(LL): 0.142 M - -
HORZ(TL): 0.291 M - -
Creep Factor: 2.0
Max TC CSI: 0.640
Max BC CSI: 0.638
Max Web CSI: 0.868

VIEW Ver: 18.02.01B.0321.08

Maximum Reactions (lbs)
Gravity Non-Gravity
Loc R+ / R- / Rh / Rw / U / RL
B 1393 /- /- /868 /107 /184
L 1236 /- /- /632 /108 /-
Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.6
L Brg Width = 3.5 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.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	34 -640	G - H	426 -1343
C - D	33 -561	H - I	391 -1198
D - E	588 -2542	I - J	391 -1196
E - F	529 -2085	J - K	251 -841
F - G	460 -1607		

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
D - T 2389 -649 R - Q 1338 -331
T - S 2386 -649 Q - N 1342 -330
S - R 1692 -447

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
E - S 235 -805 N - J 952 -243
S - F 518 -118 M - J 221 -728
F - R 186 -570 M - K 954 -229
G - R 518 -135 K - L 329 -1197
N - M 658 -157



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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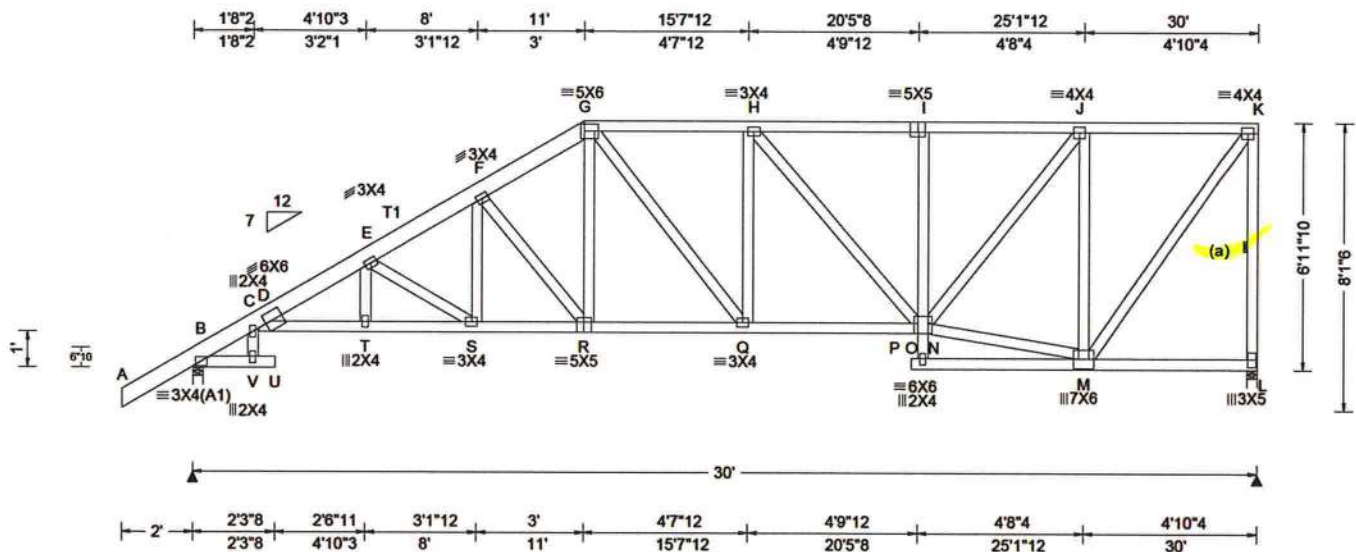
ALPINE
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 569213
FROM: CDM

HIPM
Ply: 1
Qty: 1

Job Number: 19-3758
/Lloyd /CASTAGNA CONST.
Truss Label: B06

Cust: R 215 JRef: 1WQM2150002 T21
DrwNo: 336.19.0958.09670
SSB / YK 12/02/2019



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

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

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

Code / Misc Criteria	
Bldg Code:	FBC 2017 RES
TPI Std:	2014
Rep Fac:	Yes
FT/RT:	20(0)/10(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in	loc L/defl L/#
VERT(LL):	0.186 U 999 240
VERT(CL):	0.382 U 936 240
HORZ(LL):	0.138 M - -
HORZ(TL):	0.283 M - -
Creep Factor:	2.0
Max TC CSI:	0.641
Max BC CSI:	0.648
Max Web CSI:	0.998

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
B	1394	-/-	-/-	/867	/230	/216
L	1236	-/-	-/-	/643	/246	-/-
Wind reactions based on MWFRS						
B	Brg Width = 3.5			Min Req = 1.6		
L	Brg Width = 3.5			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 - C	0	-641	G - H	457	-1643	
C - D	0	-561	H - I	397	-1453	
D - E	624	-2649	I - J	396	-1448	
E - F	563	-2254	J - K	210	-777	
F - G	485	-1810				

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Right end vertical not exposed to wind pressure.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords		Tens. Comp.		Chords		Tens. Comp.	
D - T	2536	-770	R - Q	1529	-447		
T - S	2531	-769	Q - N	1647	-459		
S - R	1842	-554					

Maximum Web Forces Per Ply (lbs)

Webs		Tens. Comp.		Webs		Tens. Comp.	
E - S	252	-801	N - M	801	-217		
S - F	509	-132	J - M	362	-1152		
F - R	174	-510	M - K	1321	-357		
G - R	478	-127	K - L	351	-1197		
N - J	1038	-286					

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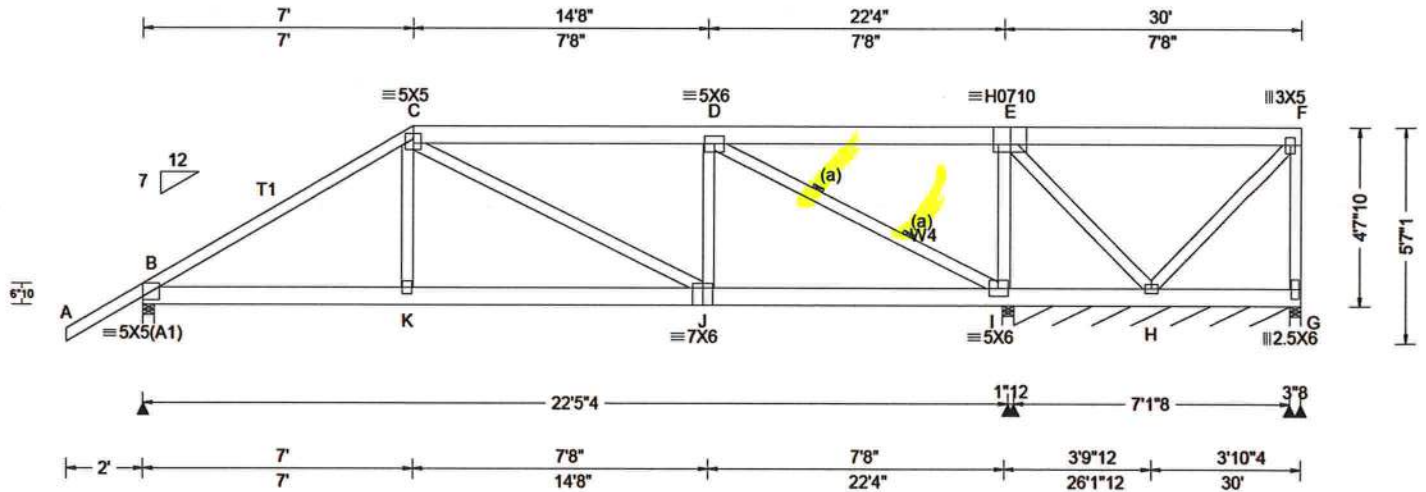
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.079 J 999 240 VERT(CL): 0.160 J 999 240 HORZ(LL): 0.022 I - - HORZ(TL): 0.043 I - - Creep Factor: 2.0 Max TC CSI: 0.760 Max BC CSI: 0.347 Max Web CSI: 0.896 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1987 /- /- /- /462 /- I 3043 /- /- /- /656 /- I* 161 /- /- /- /24 /- G 188 /-41 /- /48 /- /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.6 I Brg Width = 3.5 Min Req = 2.1 I Brg Width = 85.5 Min Req = - G Brg Width = 3.5 Min Req = 1.5 Bearings B, I, I, & G are a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W4 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 63 plf at -2.00 to 63 plf at 7.00
TC: From 32 plf at 7.00 to 32 plf at 30.00
BC: From 5 plf at -2.00 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.03
BC: From 10 plf at 7.03 to 10 plf at 30.00
TC: 345 lb Conc. Load at 7.03
TC: 192 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,29.94
BC: 400 lb Conc. Load at 7.03
BC: 132 lb Conc. Load at 9.06,11.06,13.06,15.06
17.06,19.06,21.06,23.06,25.06,27.06,29.06,29.94

Plating Notes
All plates are 3X4 except as noted.

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Top Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	701 - 3070	D - E	411 - 105
C - D	585 - 2589	E - F	667 - 158

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
K - C	579 - 14	I - E	272 - 743
J - D	647 - 0	E - H	109 - 483
D - I	796 - 3394	H - F	233 - 983

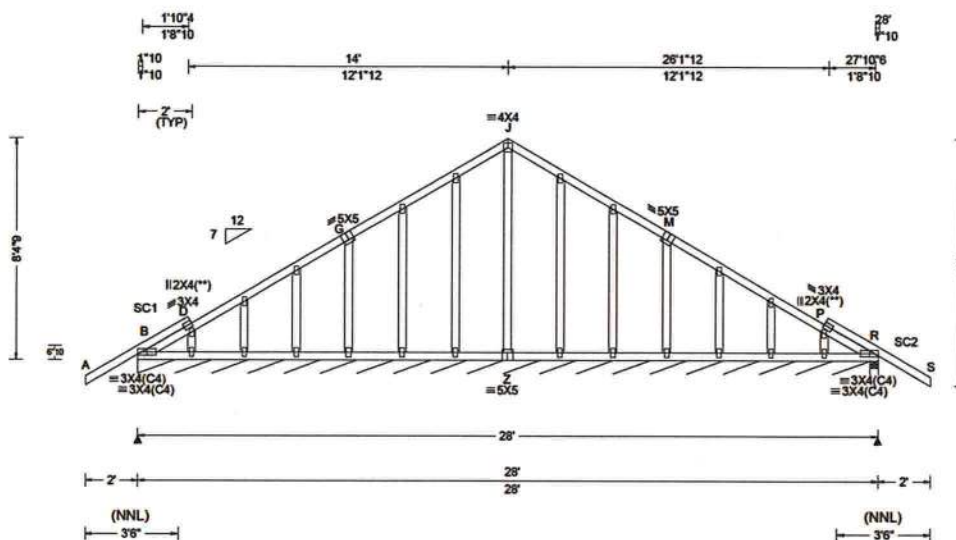
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Maryland Heights, MO 63043

SEQN: 568785 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: C01	Cust: R 215 JRef: 1WQM2150002 T2 DrwNo: 336.19.0958.15113 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 AF 999 240 VERT(CL): 0.003 AF 999 240 HORZ(LL): 0.004 N - - HORZ(TL): 0.005 N - - Creep Factor: 2.0 Max TC CSI: 0.349 Max BC CSI: 0.098 Max Web CSI: 0.188 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B* 83 /- /- /46 /15 /10 R 307 /- /- /222 /64 /- Wind reactions based on MWFRS B Brg Width = 332 Min Req = - R Brg Width = 3.5 Min Req = 1.5 Bearings B & R are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 8'-4-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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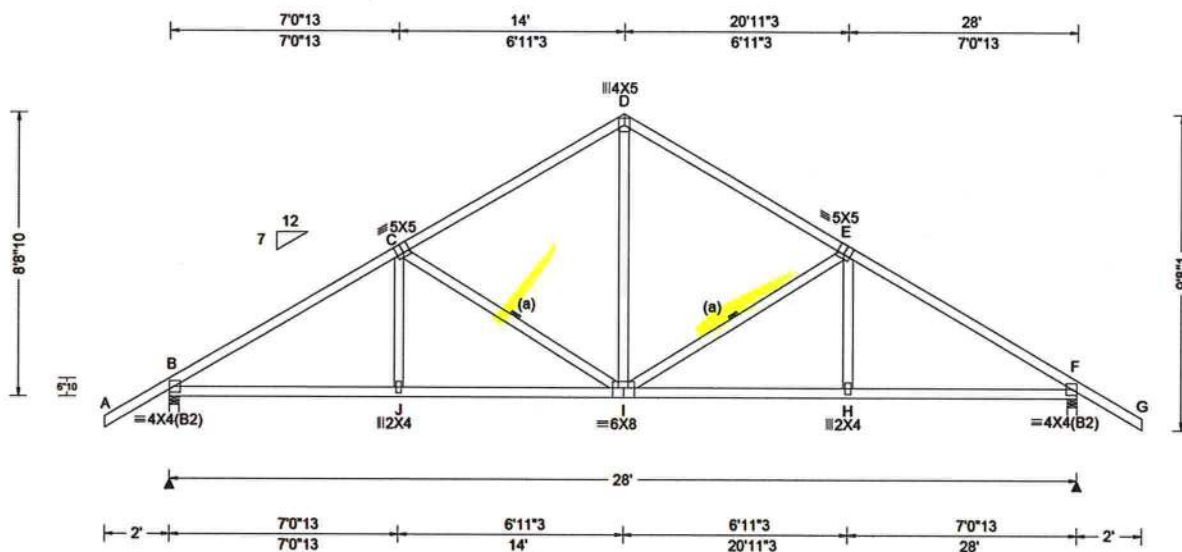
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568768 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: C02	Cust: R215 JRef: 1WQM2150002 T1 DrwNo: 336.19.0957.27057 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.082 I 999 240 VERT(CL): 0.167 I 999 240 HORZ(LL): 0.042 H - - HORZ(TL): 0.086 H - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.755 Max Web CSI: 0.313 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1300 /- /- /783 /226 /268 F 1300 /- /- /783 /226 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 477 -1758 D - E 423 -1246 C - D 423 -1246 E - F 476 -1758

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

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



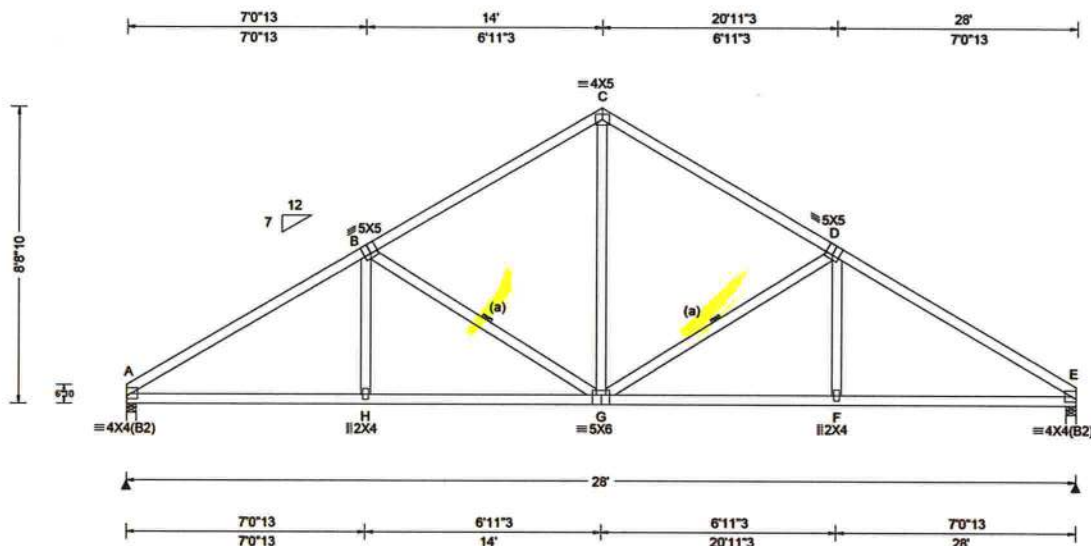
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12/02/2019

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Suite 200
Maryland Heights, MO 63043

SEQN: 568763 FROM: CDM	COMN Ply: 1 Qty: 2	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: C03	Cust: R 215 JRef: 1WQM2150002 T3 DrwNo: 336.19.0957.28253 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.074 G 999 240 VERT(CL): 0.154 G 999 240 HORZ(LL): 0.037 F - - HORZ(TL): 0.076 F - - Creep Factor: 2.0 Max TC CSI: 0.537 Max BC CSI: 0.648 Max Web CSI: 0.280 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1164 /- /- /668 /191 /208 E 1164 /- /- /668 /191 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 E Brg Width = 3.5 Min Req = 1.5 Bearings A & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 376 - 1799 C - D 342 - 1266 B - C 342 - 1266 D - E 376 - 1799

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1455 - 238	G - F	1453 - 238
H - G	1453 - 239	F - E	1455 - 238

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - G	188 - 541	G - D	189 - 541
C - G	736 - 181		

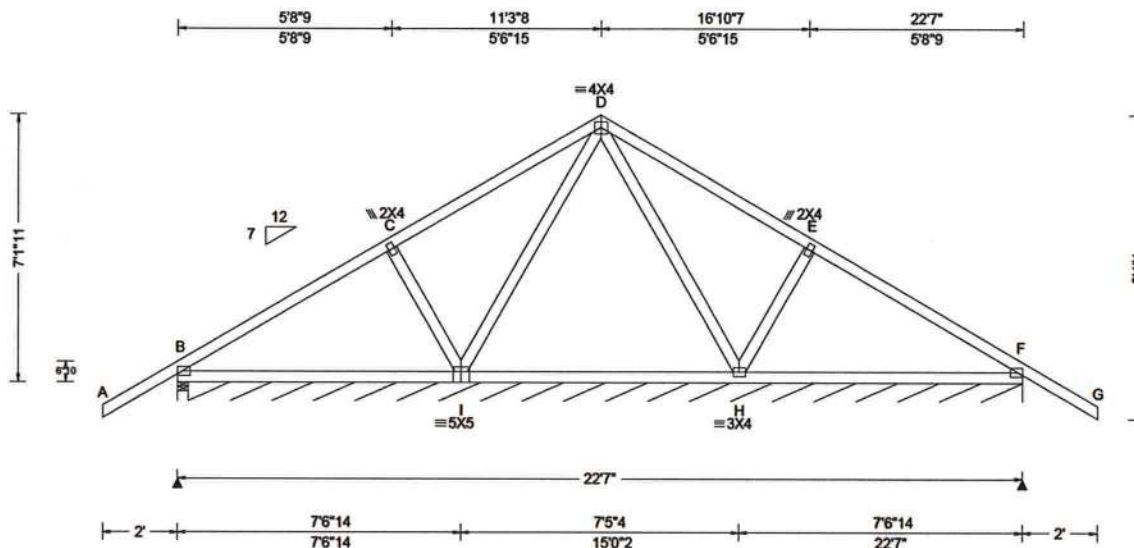
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568783 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: D01	Cust: R 215 JRef: 1WQM2150002 T7 DrwNo: 336.19.0957.29283 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 240 VERT(CL): 0.003 I 999 240 HORZ(LL): -0.003 H - - HORZ(TL): 0.007 H - - Creep Factor: 2.0 Max TC CSI: 0.427 Max BC CSI: 0.553 Max Web CSI: 0.212 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 454 /- /- /302 /81 /228 F* 76 /- /- /140 /13 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 267 Min Req = - Bearings B & B are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 3X4(B2) except as noted.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 7'-11".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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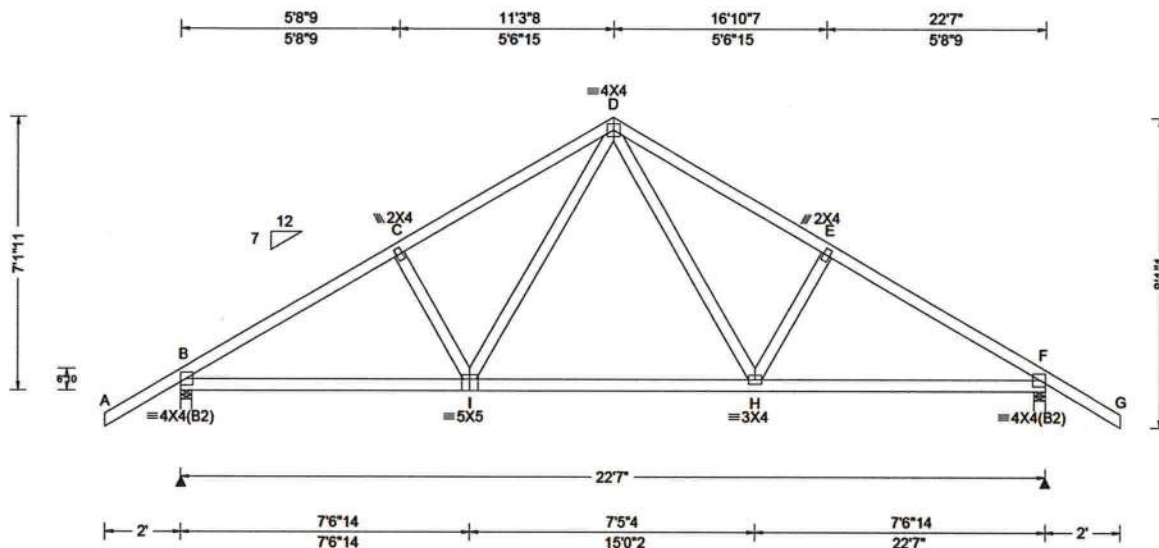
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568761 FROM: CDM	COMN Ply: 1 Qty: 6	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: D02	Cust: R 215 JRef: 1WQM2150002 T17 DrwNo: 336.19.0957.30397 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.068 H 999 240 VERT(CL): 0.129 H 999 240 HORZ(LL): 0.035 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.670 Max Web CSI: 0.192 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1138 /- /- /655 /188 /228 F 1138 /- /- /655 /188 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 379 - 1504 D - E 416 - 1336 C - D 417 - 1334 E - F 378 - 1506

Lumber

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

Loading

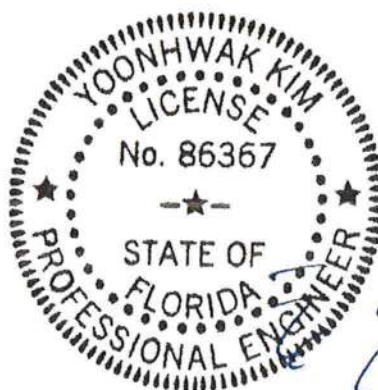
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 7'-1-11.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - I	1207 - 191	H - F	1209 - 206
I - H	840 - 46		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
I - D	500 - 151	D - H	504 - 150

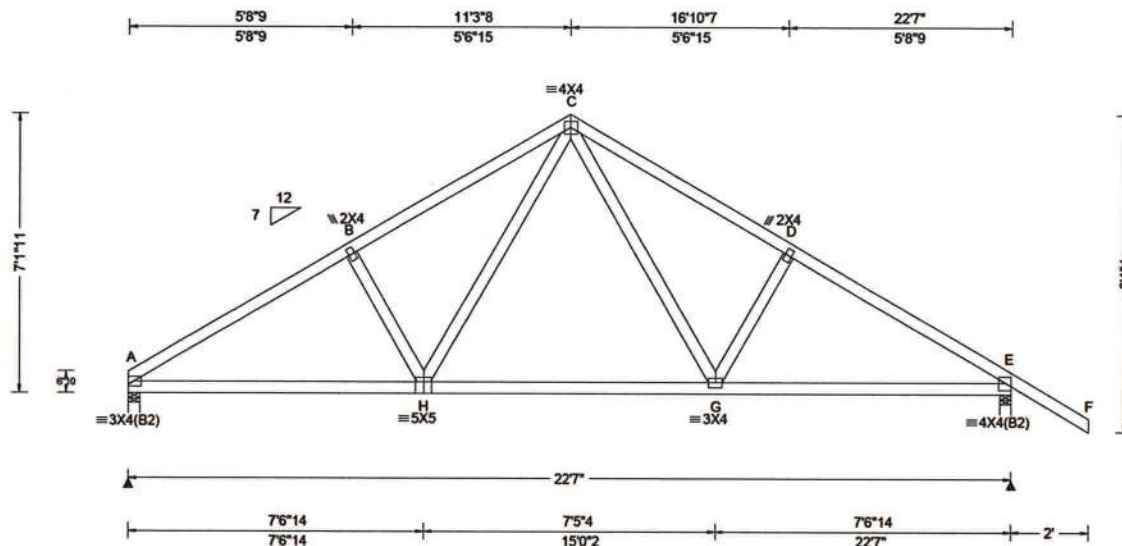
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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Maryland Heights, MO 63043



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.065 G 999 240 VERT(CL): 0.126 G 999 240 HORZ(LL): 0.034 G - - HORZ(TL): 0.065 G - - Creep Factor: 2.0 Max TC CSI: 0.614 Max BC CSI: 0.676 Max Web CSI: 0.203 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 996 /- /- /538 /10 /205 E 1145 /- /- /655 /20 /- Wind reactions based on MWFRS A Brg Width = 3.5 Min Req = 1.5 E Brg Width = 3.5 Min Req = 1.5 Bearings A & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 310 - 1537 C - D 327 - 1348 B - C 347 - 1367 D - E 291 - 1518

Lumber

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

Loading

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

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 7'-1-11."



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - H	1245 - 162	G - E	1219 - 152
H - G	850 - 31		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
H - C	534 - 125	C - G	502 - 110

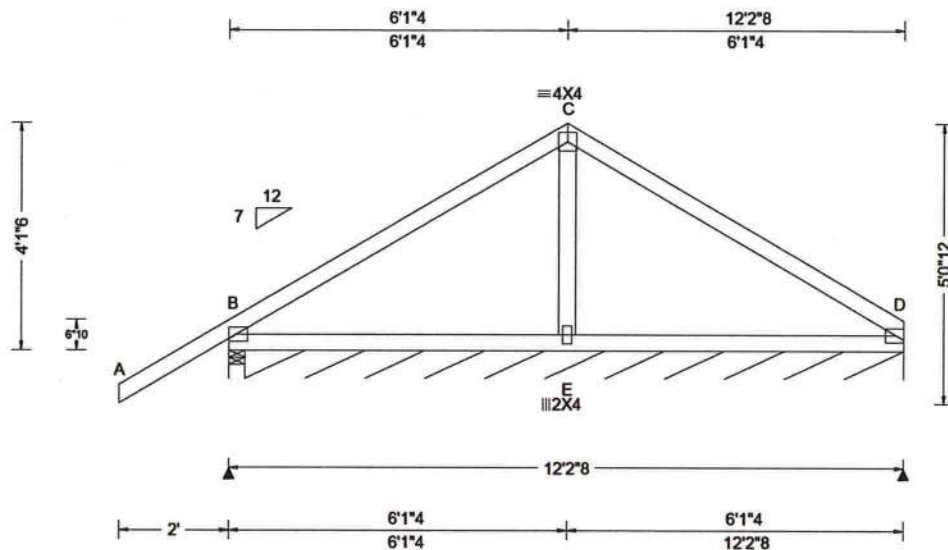
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568777 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: G01	Cust: R 215 JRef: 1WQM2150002 T4 DrwNo: 336.19.0957.32640 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 E 999 240 VERT(CL): 0.002 E 999 240 HORZ(LL): -0.004 E - - HORZ(TL): 0.009 E - - Creep Factor: 2.0 Max TC CSI: 0.592 Max BC CSI: 0.388 Max Web CSI: 0.053 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 614 /- /- /316 /171 /128 D* 45 /- /- /27 /2 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 142 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 - C 289 -509 C - D 284 -501

Lumber

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

Plating Notes

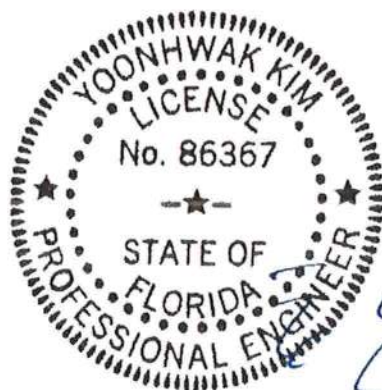
All plates are 3X4(B2) except as noted.

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-1.6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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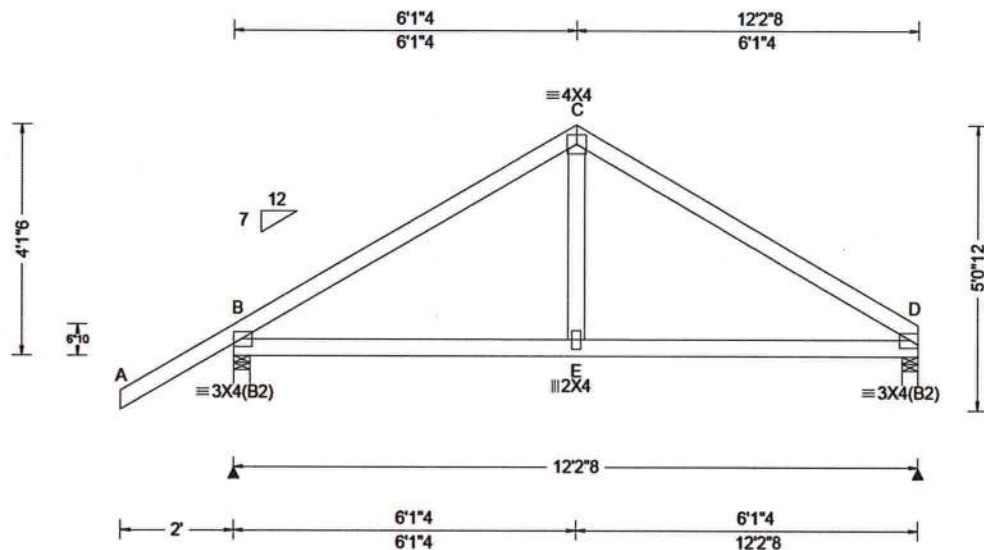
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AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568838 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: G02	Cust: R 215 JRef: 1WQM2150002 T19 DrwNo: 336.19.0957.33727 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.008 E 999 240 VERT(CL): 0.017 E 999 240 HORZ(LL): 0.005 E - - HORZ(TL): 0.010 E - - Creep Factor: 2.0 Max TC CSI: 0.390 Max BC CSI: 0.376 Max Web CSI: 0.101 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 655 /- /- /412 /120 /128 D 496 /- /- /267 /78 /- Wind reactions based on MWFRS B Brg Width = 3.5 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# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 187 -612 C - D 183 -605 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - E 444 -78 E - D 444 -78

Lumber

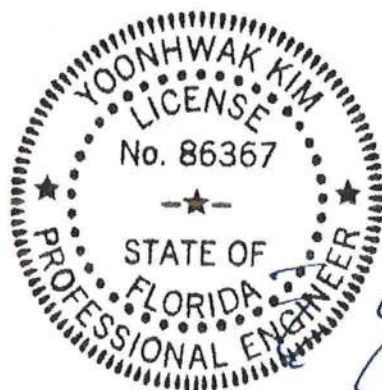
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-1-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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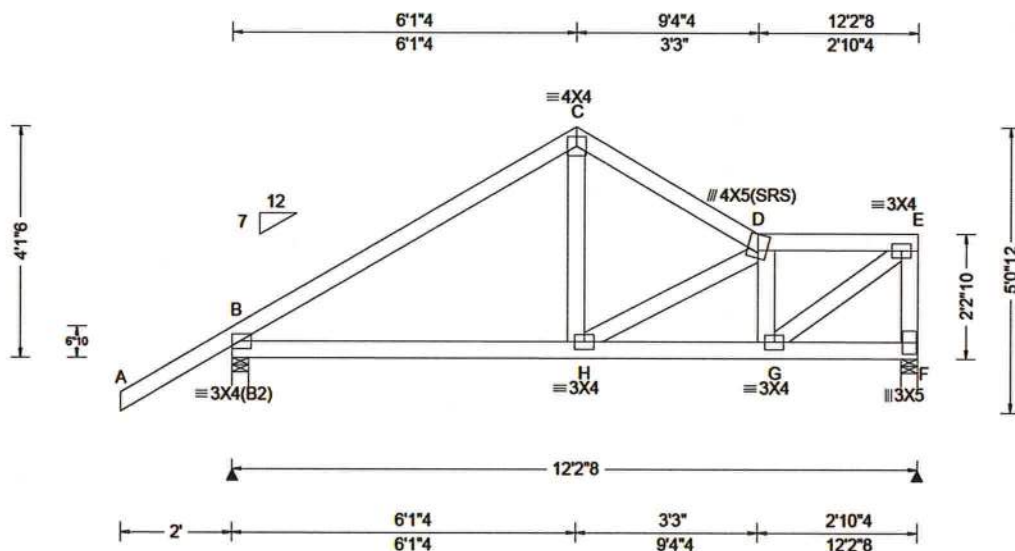
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568792 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: G03	Cust: R 215 JRef: 1WQM2150002 T6 DrwNo: 336.19.0957.34687 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.011 H 999 240 VERT(CL): 0.022 H 999 240 HORZ(LL): 0.004 F - - HORZ(TL): 0.007 F - - Creep Factor: 2.0 Max TC CSI: 0.400 Max BC CSI: 0.342 Max Web CSI: 0.243 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 658 /- /- /420 /117 /102 F 493 /- /- /257 /86 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 173 -596 D - E 185 -514 C - D 190 -537

Lumber

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

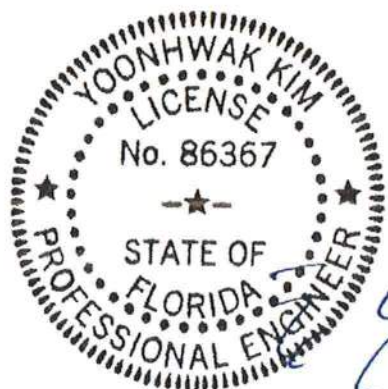
Wind

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

Right end vertical not exposed to wind pressure.

Additional Notes

The overall height of this truss excluding overhang is 41'-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - H	426 -127	H - G	566 -207

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
G - E	637 -228	E - F	203 -465

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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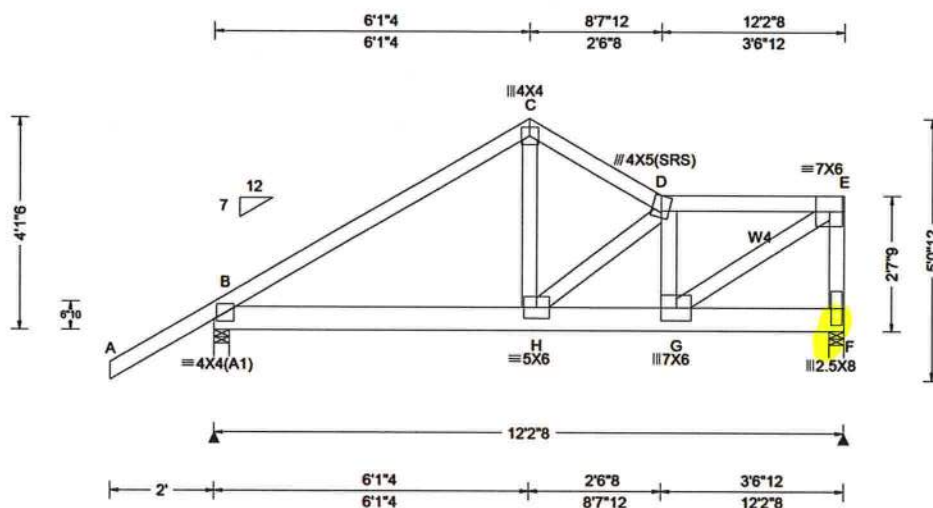
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568836 FROM: CDM	COMN Ply: 2 Qty: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: G04	Cust: R 215 JRef: 1WQM2150002 T10 DrwNo: 336.19.0957.35680 SSB / YK 12/02/2019
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
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 Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist: 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L# VERT(LL): 0.047 H 999 240 VERT(CL): 0.095 H 999 240 HORZ(LL): 0.009 C - - HORZ(TL): 0.018 C - - Creep Factor: 2.0 Max TC CSI: 0.415 Max BC CSI: 0.619 Max Web CSI: 0.748 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 2582 /- /- /- /577 /- F 4622 /- /- /- /962 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.9 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 458 -2080 D - E 567 -2673 C - D 454 -2105

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W4 2x4 SP #2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 6.00" 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

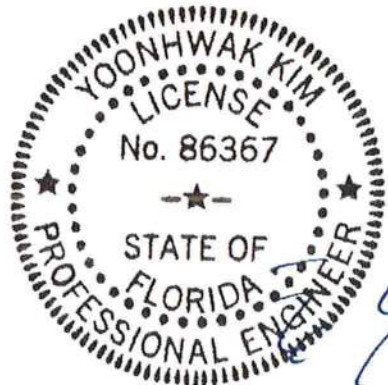
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -2.00 to 63 plf at 6.10
TC: From 32 plf at 6.10 to 32 plf at 12.21
BC: From 5 plf at -2.00 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.06
BC: From 10 plf at 7.06 to 10 plf at 12.21
BC: 3457 lb Conc. Load at 7.06
BC: 1419 lb Conc. Load at 9.06
BC: 1422 lb Conc. Load at 11.06

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 4'-1.6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

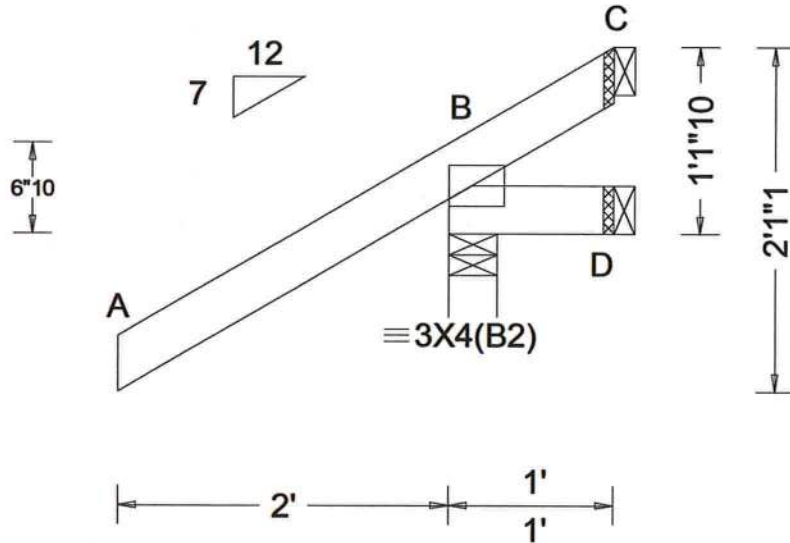
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ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568748 FROM: CDM	JACK Qty: 4	Ply: 1	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: J01	Cust: R 215 JRef: 1WQM2150002 T13 DrwNo: 336.19.0957.38067 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.003 C - - Creep Factor: 2.0 Max TC CSI: 0.333 Max BC CSI: 0.044 Max Web CSI: 0.000 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 335 /- /- /278 /93 /49 D 8 /-17 /- /17 /17 /- C - /-100 /- /51 /101 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

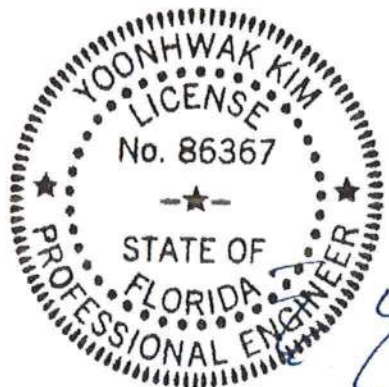
Wind

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

Additional Notes

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



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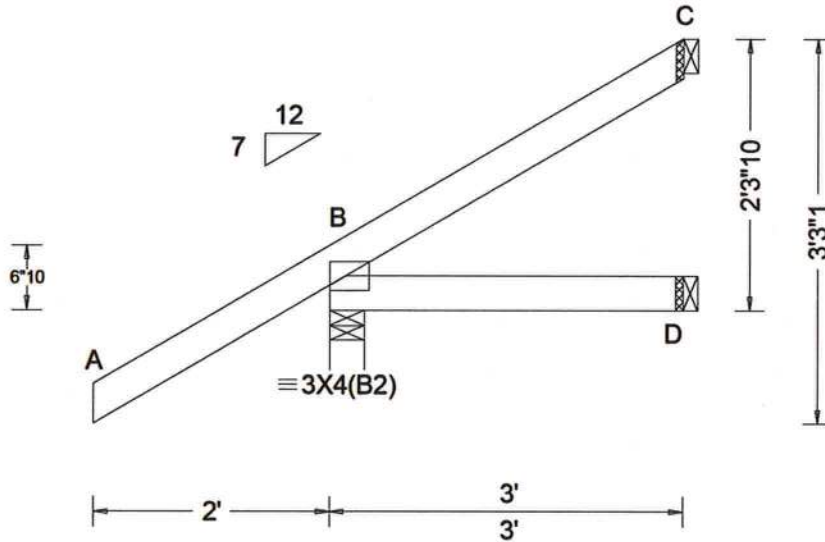
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AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568766 FROM: CDM	JACK Qty: 4	Ply: 1 Qty: 4	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: J02	Cust: R 215 JRef: 1WQM2150002 T12 DrwNo: 336.19.0957.38967 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.002 C - - HORZ(TL): 0.003 C - - Creep Factor: 2.0 Max TC CSI: 0.333 Max BC CSI: 0.082 Max Web CSI: 0.000 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 312 /- /- /237 /52 /83 D 52 /- /- /41 /3 /- C 53 /- /- /30 /27 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 2-3-10.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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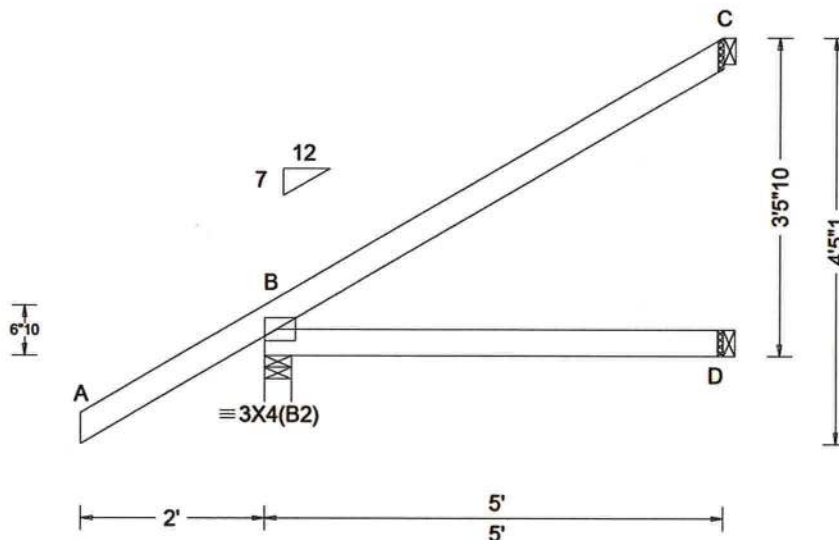
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Maryland Heights, MO 63043



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 376 /- /- /273 /50 /116
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 D - -	D 92 /- /- /66 /- /-
	EXP: C Kzt: NA		HORZ(TL): 0.004 D - -	C 127 /- /- /60 /56 /-
Des Ld: 40.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
NCBCLL: 10.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.350	B Brg Width = 3.5 Min Req = 1.5
Softit: 2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.264	D Brg Width = 1.5 Min Req = -
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000	C Brg Width = 1.5 Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Bearing B is a rigid surface.
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	

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

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

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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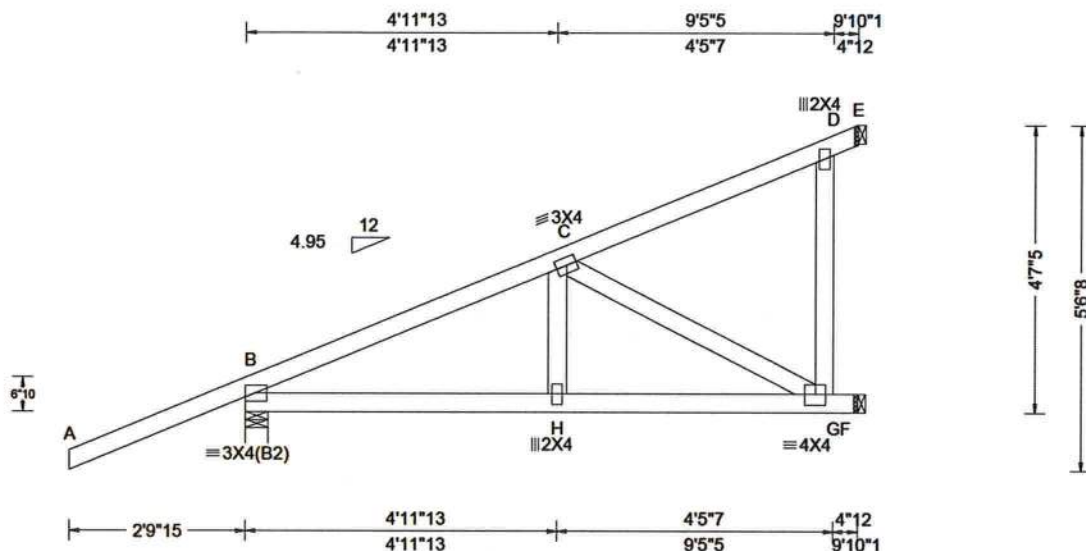
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 *	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.031 H 999 240 VERT(CL): 0.058 H 999 240 HORZ(LL): -0.009 E - - HORZ(TL): 0.016 E - - Creep Factor: 2.0 Max TC CSI: 0.720 Max BC CSI: 0.723 Max Web CSI: 0.259 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity Loc R+ / R- / Rh B 390 /- /- /- /286 /- F 268 /- /- /- /106 /- E 153 /- /- /- /3 /- Wind reactions based on MWFRS B Brg Width = 4.2 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

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

Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.83 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 9.84
BC: From 0 plf at -2.83 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 9.84
TC: -83 lb Conc. Load at 1.41
TC: 105 lb Conc. Load at 4.24
TC: 255 lb Conc. Load at 7.07
BC: 15 lb Conc. Load at 1.41
BC: 104 lb Conc. Load at 4.24
BC: 185 lb Conc. Load at 7.07

Wind

Wind loads and reactions based on MWFRS.

Additional Notes

The overall height of this truss excluding overhang is 4'-7.5'.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

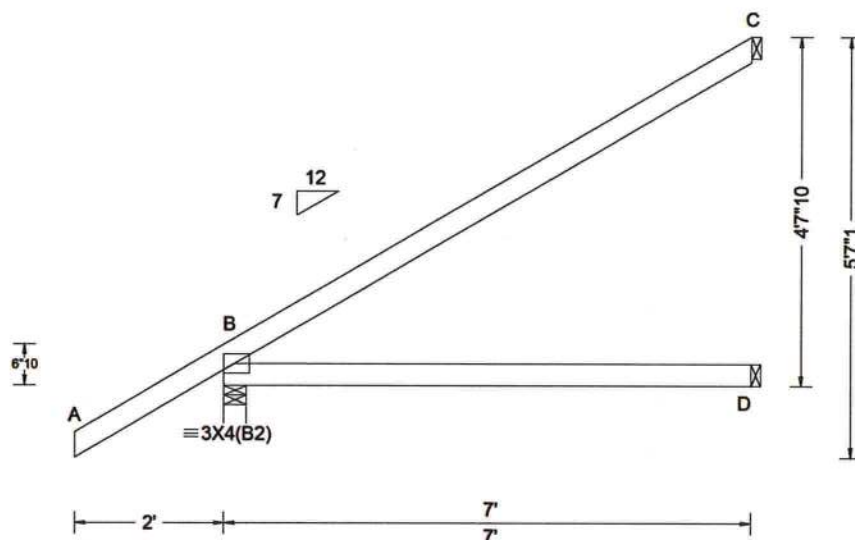
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp1: 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	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.009 D - - HORZ(TL): 0.018 D - - Creep Factor: 2.0 Max TC CSI: 0.750 Max BC CSI: 0.539 Max Web CSI: 0.000 VIEW Ver: 18.02.01B.0321.08	▲ Maximum Reactions (lbs) Gravity LocR+ / R- / Rh / Rw / U / RL Non-Gravity LocR+ / R- / Rh / Rw / U / RL B 450 /- /- /320 /51 /149 D 132 /- /- /91 /- /- C 192 /- /- /96 /81 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#						
		Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE								

Lumber

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

Wind

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

Additional Notes

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

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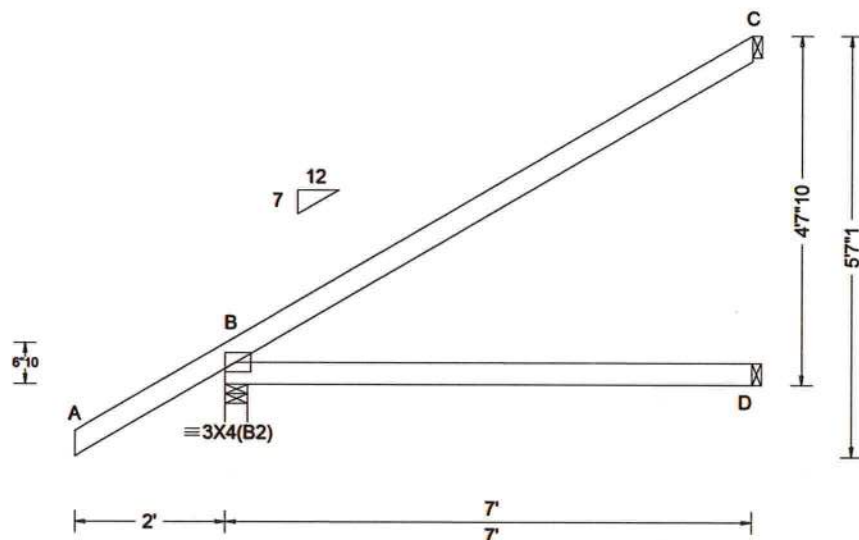
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

SEQN: 568811 FROM: CDM	EJAC Ply: 1 Qty: 5	Job Number: 19-3758 /Lloyd /CASTAGNA CONST. Truss Label: J06	Cust: R 215 JRef: 1WQM2150002 T32 DrwNo: 336.19.0957.43540 SSB / YK 12/02/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.009 D - - HORZ(TL): 0.018 D - - Creep Factor: 2.0 Max TC CSI: 0.750 Max BC CSI: 0.539 Max Web CSI: 0.000 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 450 /- /- /320 /10 /100 D 132 /- /- /91 /- /- C 192 /- /- /96 /42 /- Wind reactions based on MWFRS B Brg Width = 3.5 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Additional Notes

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

Provide (2) 16d common 0.162"x3.5", toe-nails at TC.
Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
12/02/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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

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

ALPINE
AN ITW COMPANY
13723 Riverport Drive
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CLR Reinforcing

Member Substitution

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

Notes:

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

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

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

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

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.

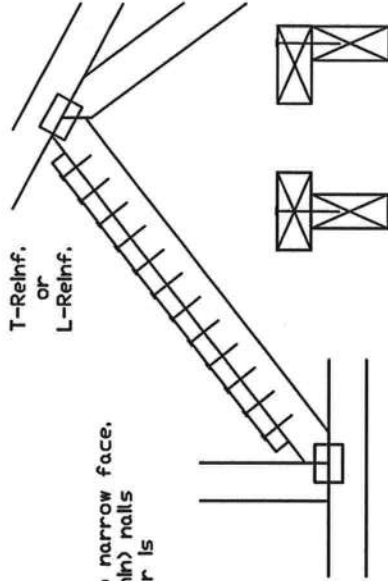
Ø Center scab on wide face of web. Apply (1) scab to each face of web.

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.

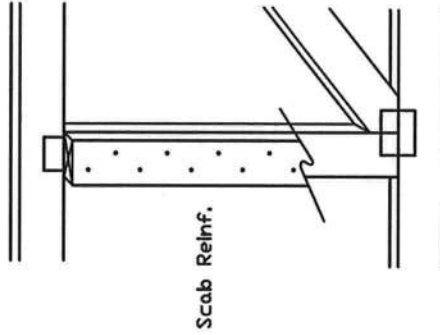


T-Reinf.

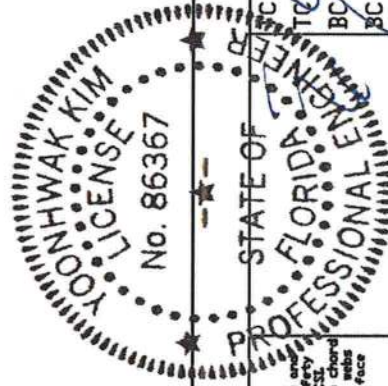
L-Reinf.

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.



Scab Reinf.



SEALING: READ AND FOLLOW ALL NOTES ON THIS DRAWING. ALL CONTRACTORS INCLUDING THE INSTALLERS, require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the design engineer's specifications for all materials and methods. The design engineer shall be responsible for the design and the contractor shall be responsible for the construction. The contractor shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100-2 for standard plate positions. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from the design engineer's specifications. A seal on this drawing or cover page listing the design engineer's acceptance of professional engineering responsibility solely for the design shown. The seal and use of this drawing for any structure is the responsibility of the Building Designer per ASCE/ET 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpine.com ITW: www.itw.com BCG: www.bcg.com



13723 Riverport Drive
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REF	CLR Subst.	PSF	LL	TL	DL	BC/DL	BC/LL	TOT. LD.	DUR. FAC.	SPACING
DATE	01/02/19	PSF								
DRWG	BRCLBSUB0119	PSF								
		PSF								

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

Wind Speed	15' Mean Height	Partially Enclosed	Exposure C	K _{zt} = 1.00
120 mph	15' Mean Height	Partially Enclosed	Exposure C	K _{zt} = 1.00
120 mph	15' Mean Height	Enclosed	Exposure D	K _{zt} = 1.00
100 mph	15' Mean Height	Partially Enclosed	Exposure D	K _{zt} = 1.00

Bracing Group Species and Grade

Group A:

Species-Phr-Fir

#1 / #2

Standard

#3

Stud

Hein-Fir

#2

Stud

#3

Standard

Douglas Fir-Larch

#3

Stud

Standard

Southern Pine

#3

Stud

Standard

Group B:

Hein-Fir

#1 & Phr

#1

Douglas Fir-Larch

#1

#2

Southern Pine

#1

#2

1x4 Braces shall be SRB (Stress-Rated Board) use for 1x4 So. Pine use only Industrial S5 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

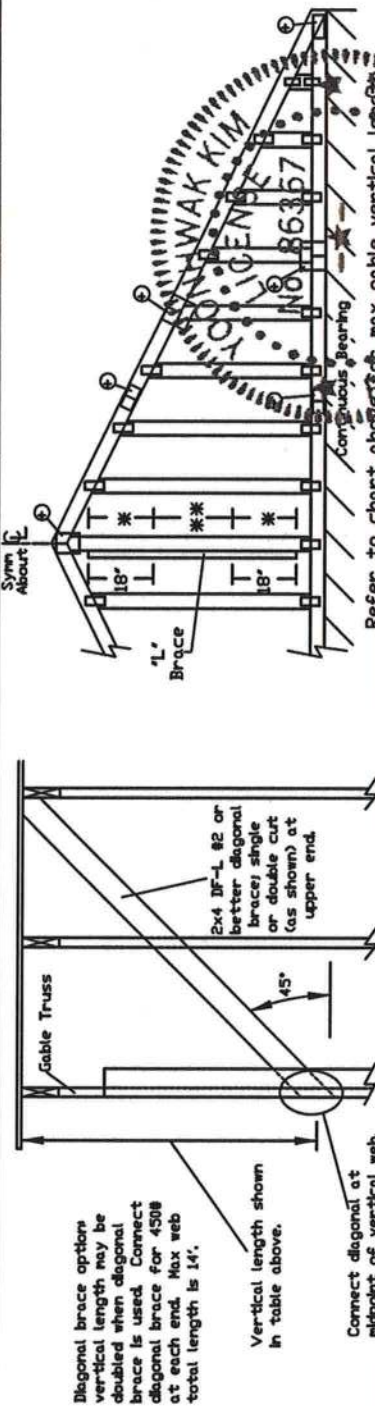
Wind Load deflection criterion is L/240.
Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (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" brace 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.

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.



Definitely not a good idea.

REVIEWERS READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT! FURNISH THESE DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.

Transuses require extreme care in fabrication, handling, shipping, bracing and anchoring. Refer to and follow the latest edition of ECSC Guiding Component Safety Information, by TPI and SBCA for safety instructions pertaining to performing these functions. Installers shall provide temporary bracing per ECSC Guiding Component Safety Information, by TPI and SBCA. Transuses must have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of cables shall have bracing installed per ECSC sections E2, E7 or B10, as applicable. Apply plates to each face of transuses and post them as shown above and on the Joint Details, unless noted otherwise. See drawings K609 through K618 for details.

Agree, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, unless it is specifically noted on this drawing, and shall not be responsible for any handling, shipping, transportation, installation or bracing of trusses.

For more information see this job's general notes page and these web sites:
ALPND www.alphalife.com TPJ www.tphst.org/ SIBCA www.sbcindustry.org/ ICO www.iccsafe.org

PL 2/92/2919
 REG# 278, Yoonhwak Kim, FL PE #86367

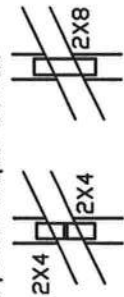
REF	ASCE7-10-GABI4015
DATE	10/01/14
DRWG	A14015ENC101014
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

[illegible]

Refer to appropriate Alpha 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.

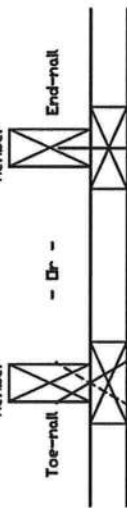
Example:



'T' Reinforcement Attachment Detail

**"T" Reinforcing
Member**

**'T' Reinforcing
Member**



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpha gable detail).

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

Web Length Increase w/ "T" Brace

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

Example 1

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, K_z = 1.00
Gable Vertical = 24° oc. SP #3
"T" Reinforced 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"

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

STATE OF

[illegible]

Alpha, a division of JTV 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 or bracing of trusses.

For more information see this job's general notes page and these web sites:
ALPHAD® www.alphadna.com TPI www.tpi.org SBCEA www.sbceaindustrial.com ICD www.icdusa.com

Yoonhwak Kim. FL PE #86367

REF 1 FT-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"



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