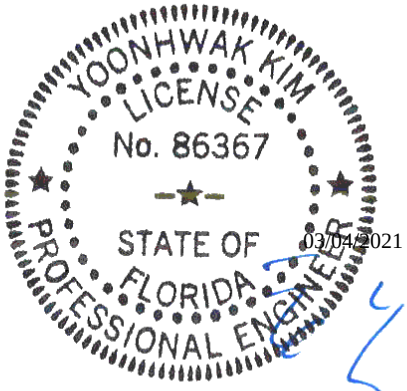

03/04/2021

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ALPINE AN ITW COMPANY

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

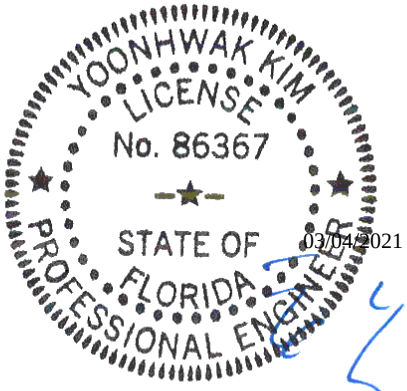
Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4565
Job Description: Senn Res.- 52" Celiing fan in both Garages	
Address: LOT 22 BLACKBERRY FARMS, Lake City, FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	*IntelliVIEW Version:* 20.01.01A *JRef #:* 1X3f2150001
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 40.00

This package contains general notes pages, 59 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	063.21.1320.31203	A01	2	063.21.1320.33350	A02
3	063.21.1320.35123	A03	4	063.21.1320.36973	A04
5	063.21.1320.38630	A05	6	063.21.1320.40647	A06
7	063.21.1320.42530	A07	8	063.21.1320.46310	A08
9	063.21.1320.48797	B01	10	063.21.1320.50967	B02
11	063.21.1320.53323	B03	12	063.21.1320.56070	B04
13	063.21.1320.58227	B05	14	063.21.1321.00987	B06
15	063.21.1321.03487	B07	16	063.21.1321.05593	B08
17	063.21.1321.15317	B09	18	063.21.1321.17910	B10
19	063.21.1321.35127	B11	20	063.21.1321.37340	C01
21	063.21.1321.39177	C02	22	063.21.1321.40730	C03
23	063.21.1321.51497	C04	24	063.21.1321.57567	C05
25	063.21.1322.23150	C06	26	063.21.1322.25293	D01
27	063.21.1322.26877	D02	28	063.21.1322.28907	G01
29	063.21.1322.30460	G02	30	063.21.1322.33090	G03
31	063.21.1322.34740	H01	32	063.21.1322.36227	H02
33	063.21.1322.38100	H03	34	063.21.1322.39800	H04
35	063.21.1322.41713	HJ1	36	063.21.1322.43317	HJ2
37	063.21.1322.45290	HJ3	38	063.21.1322.46050	J1
39	063.21.1322.46943	J1A	40	063.21.1322.47820	J2
41	063.21.1322.48460	J3	42	063.21.1322.49313	J3A
43	063.21.1322.50140	J4	44	063.21.1322.50890	J5
45	063.21.1322.51590	J6	46	063.21.1322.52307	J7
47	063.21.1322.53000	J7A	48	063.21.1322.54230	J7B
49	063.21.1322.56050	P01	50	063.21.1322.58147	P02
51	063.21.1322.59613	P03	52	063.21.1323.00920	V1



03/04/2021

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Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 20-4565
Job Description: Senn Res.- 52" Celiing fan in both Garages	
Address: LOT 22 BLACKBERRY FARMS, Lake City, FL	

Item	Drawing Number	Truss
53	063.21.1323.01633	V2
55	063.21.1323.03250	V4
57	063.21.1323.05080	V6
59	063.21.1323.08690	V8
61	PB160160118	
63	GBLLETIN0118	
65	VAL180160118	

Item	Drawing Number	Truss
54	063.21.1323.02410	V3
56	063.21.1323.04063	V5
58	063.21.1323.06040	V7
60	BRCLBSUB0119	
62	A14015ENC160118	
64	A14030ENC160118	
66	VALTN160118	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

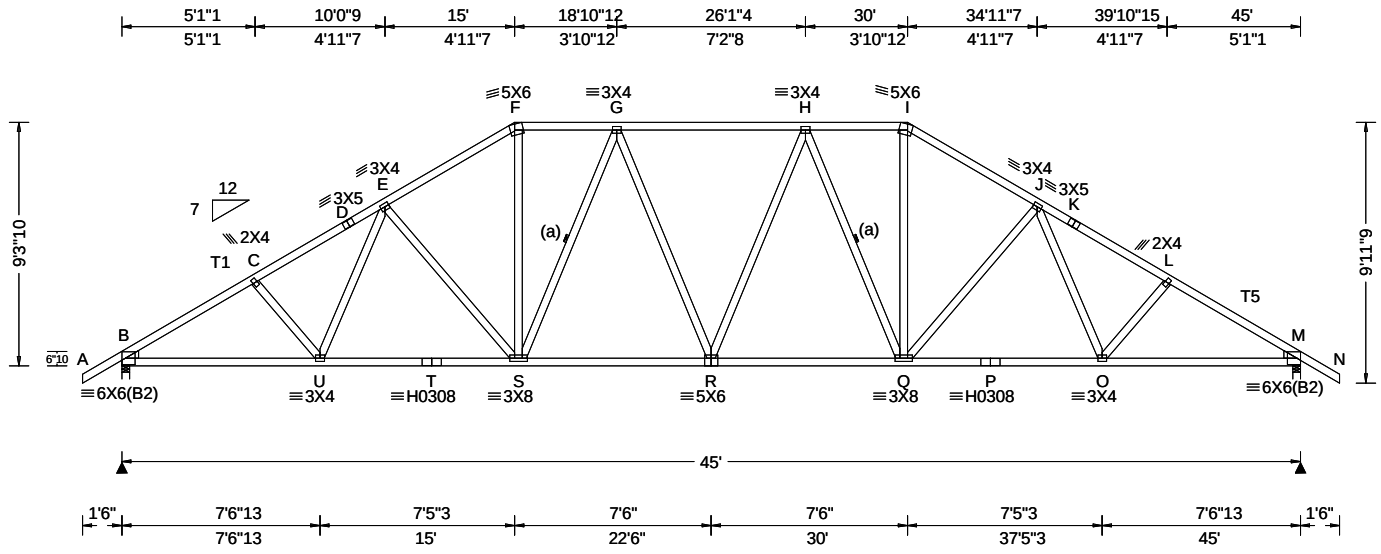
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze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

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

References:

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

SEQN: 409948 HIPS FROM: CDM	Ply: 1 Qty: 9	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A01	Cust: R 215 JRef:1X3f2150001 T18 DrwNo: 063.21.1320.31203 / YK 03/04/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.247	R	999	360
VERT(CL): 0.451	R	999	240
HORZ(LL): 0.107	O	-	-
HORZ(TL): 0.196	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.771
Max BC CSI: 0.623
Max Web CSI: 0.603

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2235	/-	/-	/1189	/-	/288
M	2234	/-	/-	/1189	/-	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3583	H - I	0	-2485
C - D	0	-3405	I - J	0	-2946
D - E	0	-3289	J - K	0	-3288
E - F	0	-2947	K - L	0	-3403
F - G	0	-2487	L - M	0	-3582
G - H	0	-2765			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	2978	0	R - Q	2705	0
U - T	2790	0	Q - P	2789	0
T - S	2790	0	P - O	2789	0
S - R	2706	0	O - M	2977	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - S	113	-498	H - Q	0	-572
F - S	1207	0	Q - I	1209	0
S - G	0	-571	Q - J	117	-498

Lumber

Top chord: 2x4 SP #2; T1,T5 2x4 SP M-31;
Bot chord: 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.

Loading

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

Purlins

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

Wind

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

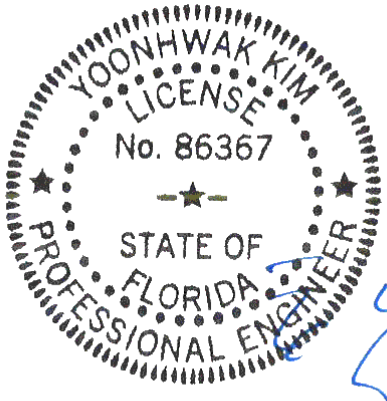
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

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



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03/04/2021

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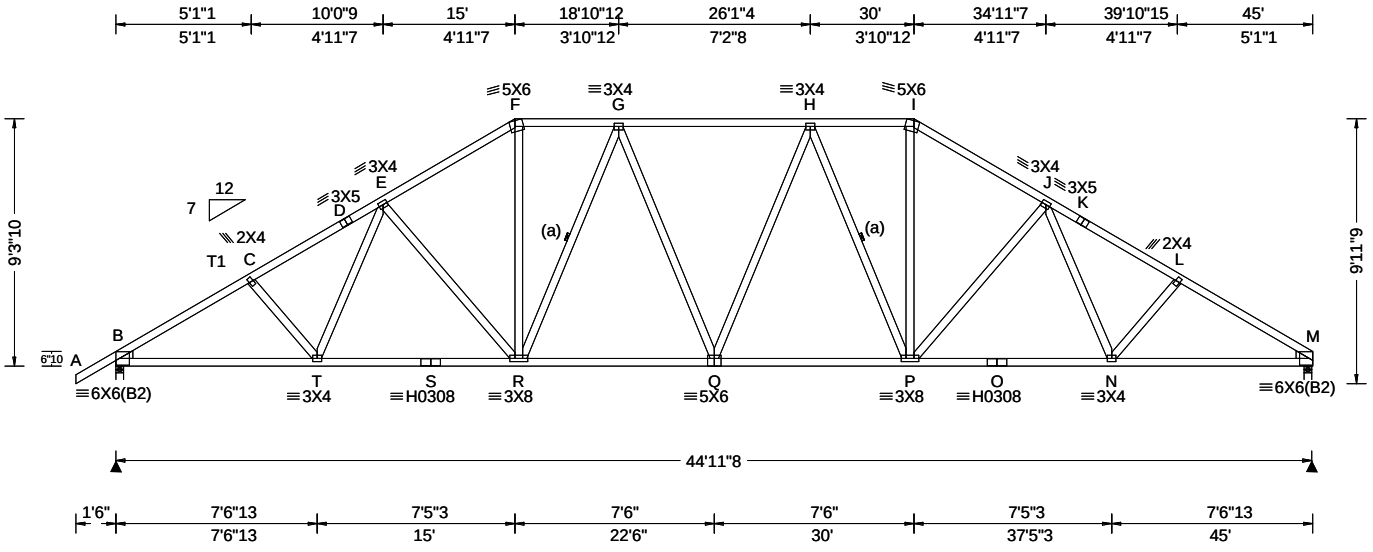
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, 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 these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 409949 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A02		Cust: R 215 JRef:1X3f2150001 T16 DrwNo: 063.21.1320.33350 / YK 03/04/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	Q	999	360
VERT(CL): 0.473	Q	999	240
HORZ(LL): 0.103	N	-	-
HORZ(TL): 0.189	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.769
Max BC CSI: 0.803
Max Web CSI: 0.603

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2231	/-	/-	/1181	/-	/272
M	2137	/-	/-	/1098	/-	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
M Brg Width = 3.5 Min Req = 1.8
Bearings B & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3576	H - I	0	-2474
C - D	0	-3397	I - J	0	-2932
D - E	0	-3282	J - K	0	-3256
E - F	0	-2940	K - L	0	-3371
F - G	0	-2480	L - M	0	-3560
G - H	0	-2755			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	2972	0	Q - P	2694	0
T - S	2784	0	P - O	2760	0
S - R	2784	0	O - N	2760	0
R - Q	2697	0	N - M	4519	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - R	113	-498	H - P	3	-573
F - R	1203	0	P - I	1199	0
R - G	4	-566	P - J	121	-469

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

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

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

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

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

Additional Notes
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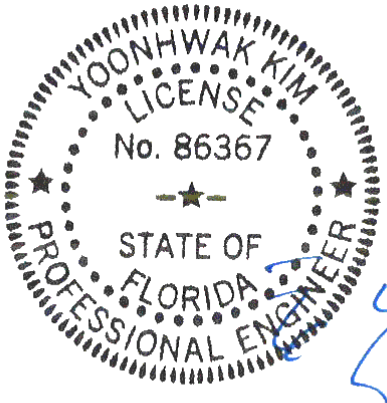
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 9-3-10.



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03/04/2021

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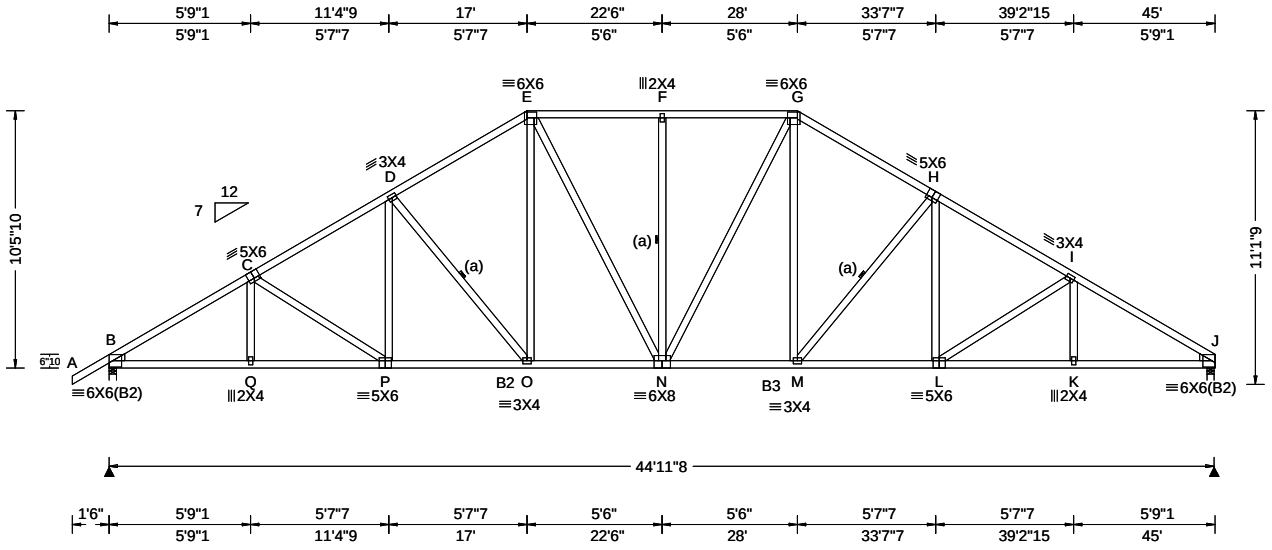
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 409950 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A03		Cust: R 215 JRef:1X3f2150001 T41 DrwNo: 063.21.1320.35123 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.245	F	999	360
VERT(CL): 0.457	F	999	240
HORZ(LL): 0.105	K	-	-
HORZ(TL): 0.196	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.977
Max BC CSI: 0.828
Max Web CSI: 0.293

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2189	/-	/-	/1185	/41	/304
J	2095	/-	/-	/1103	/31	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
J Brg Width = 3.5 Min Req = 1.7
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	79	-3462	F - G	159	-2415
C - D	119	-3185	G - H	154	-2717
D - E	155	-2724	H - I	119	-3177
E - F	159	-2415	I - J	79	-3432

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2882	-121	N - M	2267	0
Q - P	2882	-122	M - L	2658	0
P - O	2673	-60	L - K	2857	-20
O - N	2271	0	K - J	4356	-19

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	109	-643	G - M	708	-30
E - O	723	-28	M - H	112	-625

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

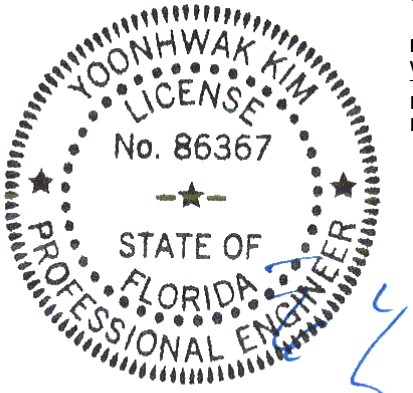
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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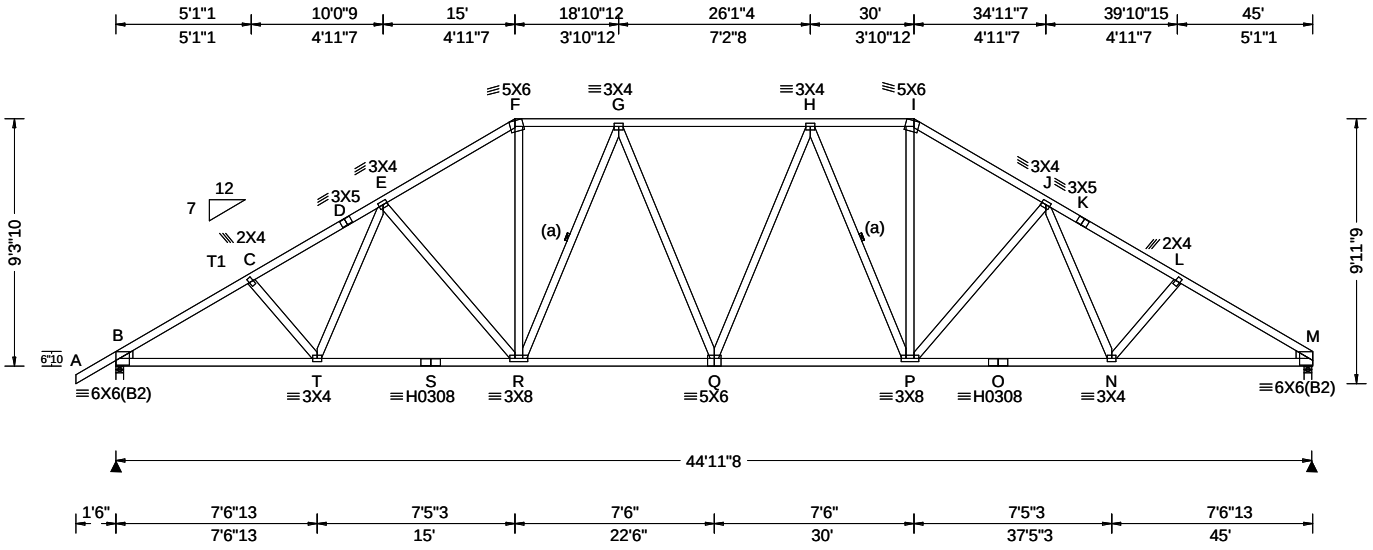
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 409951 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A04		Cust: R 215 JRef:1X3f2150001 T40 DrwNo: 063.21.1320.36973 / YK 03/04/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	Q	999	360
VERT(CL): 0.473	Q	999	240
HORZ(LL): 0.103	N	-	-
HORZ(TL): 0.189	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.770
Max BC CSI: 0.804
Max Web CSI: 0.603

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2232	/-	/-	/1176	/50	/272
M	2138	/-	/-	/1094	/38	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
M Brg Width = 3.5 Min Req = 1.8
Bearings B & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	97	-3577	H - I	145	-2477
C - D	106	-3399	I - J	146	-2935
D - E	114	-3283	J - K	114	-3258
E - F	146	-2941	K - L	107	-3374
F - G	145	-2481	L - M	97	-3562
G - H	147	-2757			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	2973	-139	Q - P	2697	0
T - S	2785	-80	P - O	2762	0
S - R	2785	-80	O - N	2762	0
R - Q	2699	-11	N - M	4522	-42

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - R	108	-498	H - P	94	-573
F - R	1204	-23	P - I	1199	-23
R - G	95	-567	P - J	114	-469

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Wind

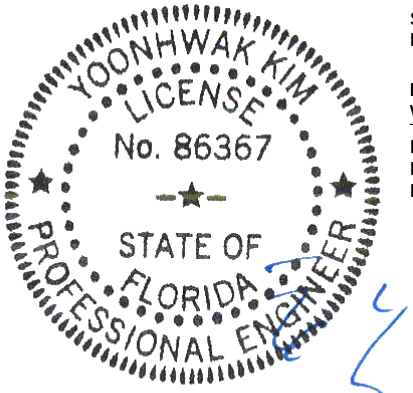
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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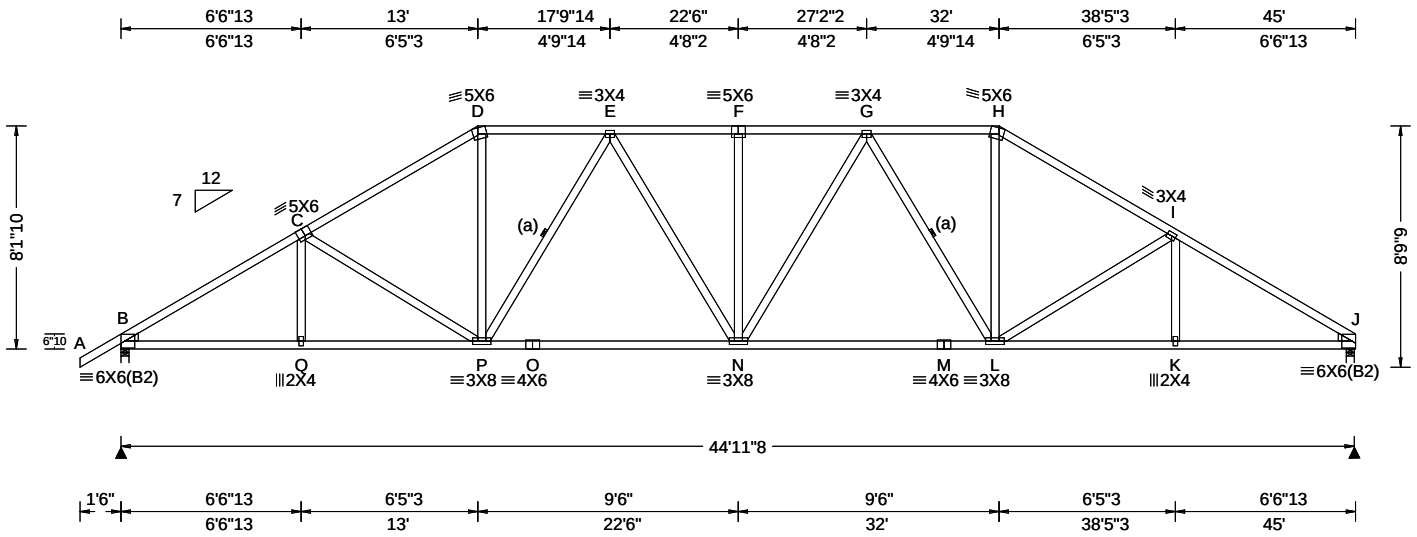
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409952 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A05		Cust: R 215 JRef:1X3f2150001 T39 DrwNo: 063.21.1320.38630 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.267	F	999	360
VERT(CL): 0.505	F	999	240
HORZ(LL): 0.096	K	-	-
HORZ(TL): 0.182	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.975
Max BC CSI: 0.763
Max Web CSI: 0.421

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2150	/-	/-	/1165	/349	/239
J	2056	/-	/-	/1082	/324	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
J Brg Width = 3.5 Min Req = 1.7
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	556	- 3392	F - G	606	- 3117
C - D	556	- 3021	G - H	528	- 2534
D - E	529	- 2544	H - I	556	- 3016
E - F	606	- 3117	I - J	553	- 3369

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2818	- 396	N - M	2909	- 333
Q - P	2818	- 398	M - L	2909	- 333
P - O	2913	- 333	L - K	2798	- 398
O - N	2913	- 333	K - J	4259	- 566

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1095	- 131	N - G	405	- 29
P - E	141	- 721	G - L	142	- 733
E - N	398	- 28	L - H	1106	- 135

Lumber

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

Loading

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

Wind

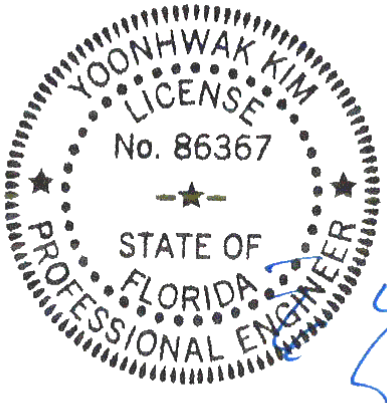
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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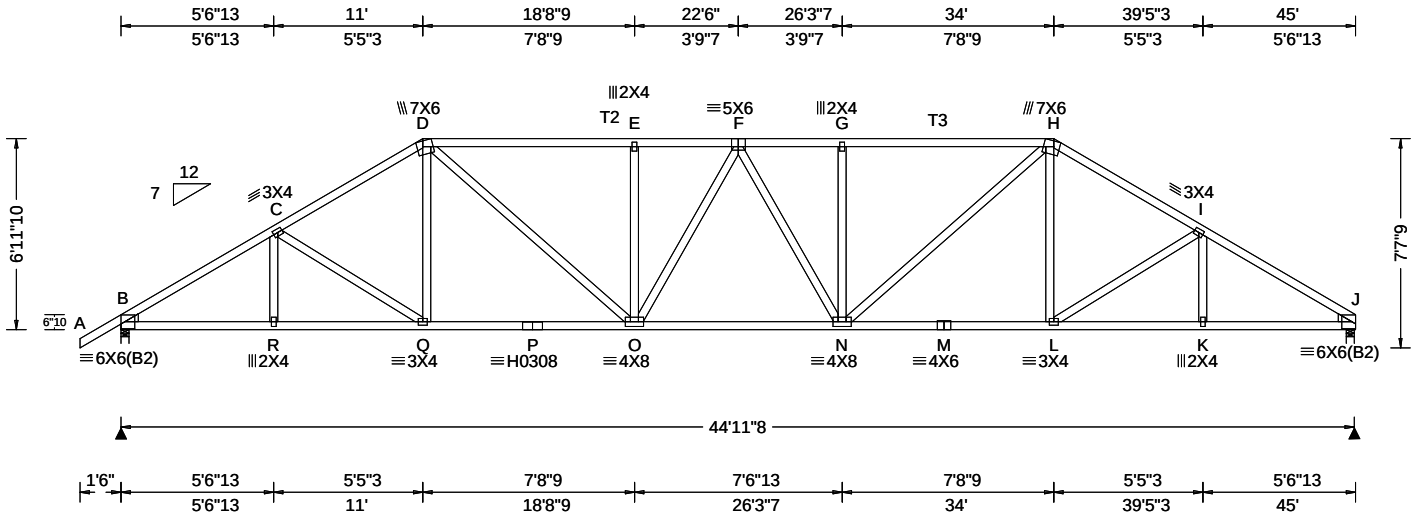
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409953 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A06		Cust: R 215 JRef:1X3f2150001 T38 DrwNo: 063.21.1320.40647 / YK 03/04/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.271	F	999	360
VERT(CL): 0.513	F	999	240
HORZ(LL): 0.095	K	-	-
HORZ(TL): 0.181	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.954
Max BC CSI: 0.783
Max Web CSI: 0.424

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2151	/-	/-	/1149	/352	/207
J	2056	/-	/-	/1067	/327	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.8
J Brg Width = 3.5 Min Req = 1.7
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	556	- 3382	F - G	670	- 3482
C - D	572	- 3141	G - H	670	- 3482
D - E	670	- 3486	H - I	572	- 3133
E - F	670	- 3486	I - J	551	- 3350

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2812	- 407	N - M	2640	- 310
R - Q	2813	- 408	M - L	2640	- 310
Q - P	2654	- 312	L - K	2787	- 407
P - O	2654	- 312	K - J	4246	- 586
O - N	3512	- 456			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - Q	391	- 2	G - N	184	- 434
D - O	1099	- 176	N - H	1113	- 177
E - O	184	- 430	H - L	389	- 4

Lumber

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

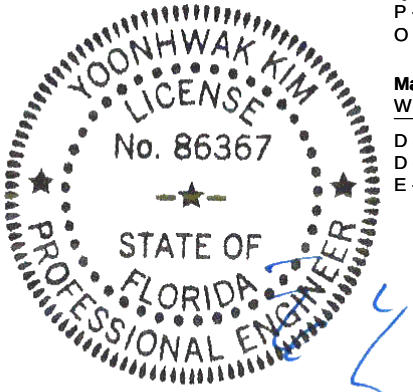
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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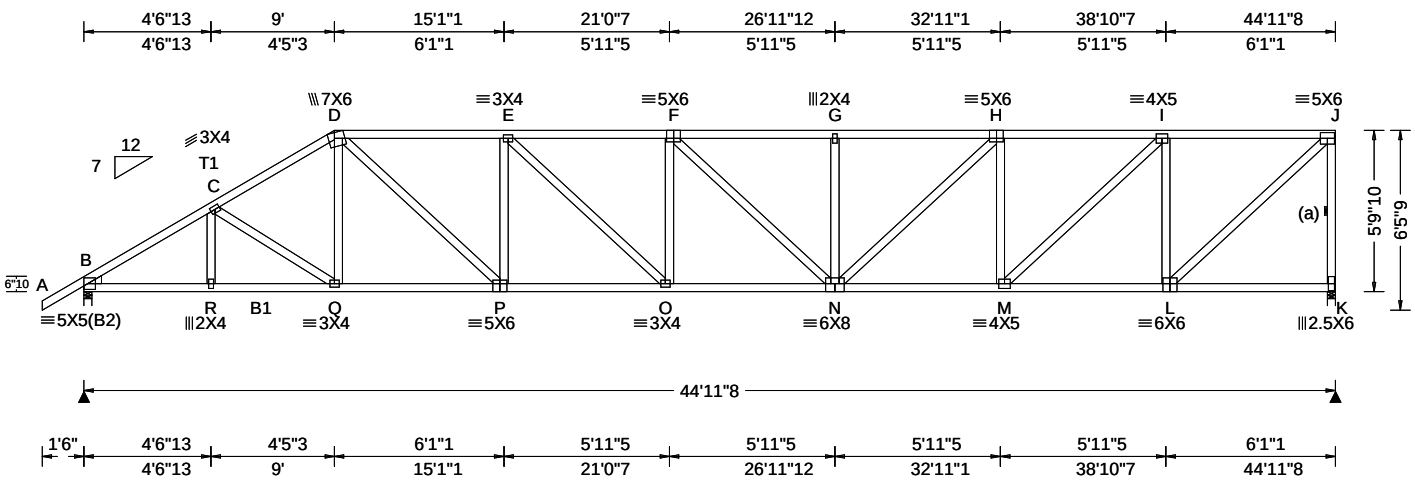
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409954 HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A07	Cust: R 215 JRef:1X3f2150001 T1 DrwNo: 063.21.1320.42530 / YK 03/04/2021



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.305	F	999	360
VERT(CL): 0.631	F	853	240
HORZ(LL): 0.084	D	-	-
HORZ(TL): 0.173	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.669
Max BC CSI: 0.914
Max Web CSI: 0.929

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1976	/-	/-	/1147	/346	/209
K	1865	/-	/-	/939	/355	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.6
K Brg Width = 3.5 Min Req = 2.2
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	527	- 3051	F - G	714	- 3685
C - D	561	- 2898	G - H	714	- 3685
D - E	681	- 3393	H - I	571	- 2984
E - F	744	- 3803	I - J	340	- 1789

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2528	- 576	O - N	3815	- 750
R - Q	2530	- 578	N - M	3035	- 585
Q - P	2461	- 520	M - L	1869	- 361
P - O	3432	- 692			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - P	1269	- 218	M - I	1556	- 294
P - E	211	- 752	I - L	383	- 1528
E - O	517	- 103	L - J	2439	- 464
N - H	896	- 178	J - K	379	- 1816
H - M	264	- 970			

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.

Wind

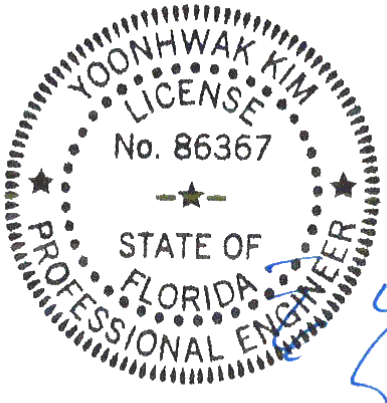
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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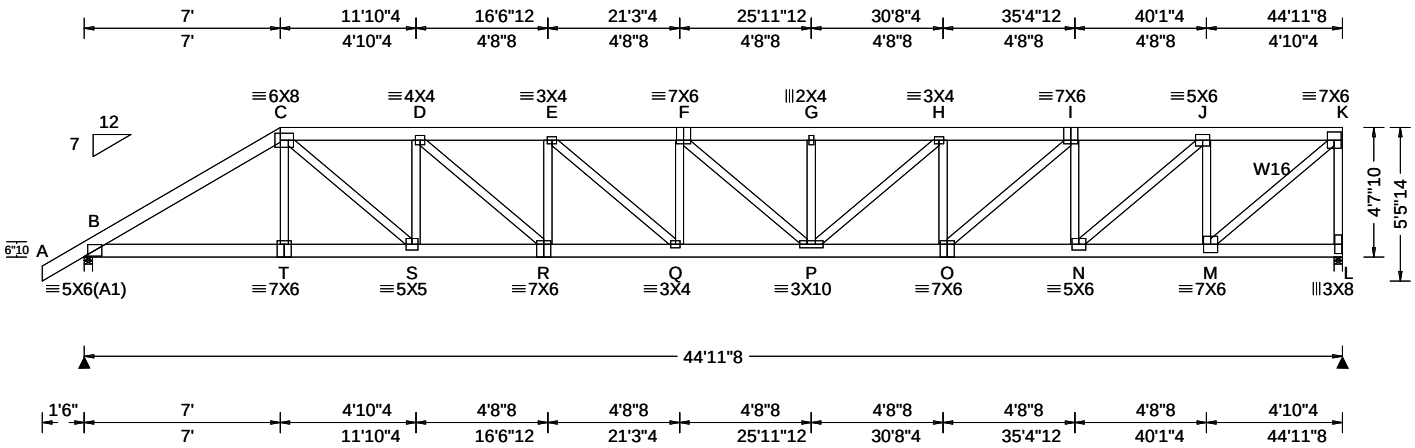
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 410002 HIPM FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** A08		Cust: R 215 JRef:1X3f2150001 T34 DrwNo: 063.21.1320.46310 / YK 03/04/2021	

2 Complete Trusses Required



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.50 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.305	F	999	360
VERT(CL): 0.614	F	875	240
HORZ(LL): 0.069	C	-	-
HORZ(TL): 0.139	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.172
Max BC CSI: 0.377
Max Web CSI: 0.864

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	4476	/-	/-	/-	/1095	/-
L	4840	/-	/-	/-	/1212	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.9
L Brg Width = 3.5 Min Req = 2.0
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	982	- 3947	G - H	1529	- 6141
C - D	1210	- 4874	H - I	1350	- 5422
D - E	1451	- 5838	I - J	1038	- 4172
E - F	1559	- 6269	J - K	594	- 2390
F - G	1529	- 6141			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - T	3350	- 827	Q - P	6281	- 1567
T - S	3360	- 827	P - O	5486	- 1371
S - R	4953	- 1235	O - N	4268	- 1067
R - Q	5884	- 1468	N - M	2524	- 634

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - S	2020	- 510	O - I	1588	- 389
S - D	369	- 1143	I - N	419	- 1387
D - R	1218	- 297	N - J	2267	- 556
R - E	243	- 667	J - M	572	- 1924
E - Q	529	- 125	M - K	3195	- 794
P - H	888	- 214	K - L	623	- 2307
H - O	304	- 908			

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W16 2x4 SP #2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

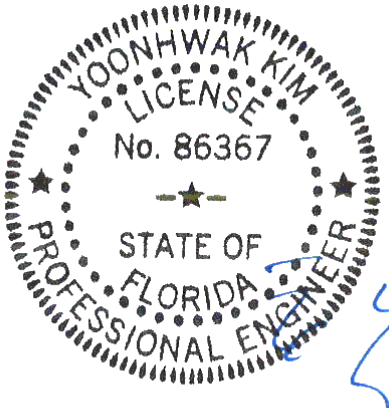
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at -1.50 to 63 plf at 7.00
TC: From 32 plf at 7.00 to 32 plf at 44.96
BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 7.15
BC: From 10 plf at 7.15 to 10 plf at 44.96
TC: 291 lb Conc. Load at 7.03
TC: 197 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 33.06,35.06,37.06,39.06,41.06,43.06,44.56
BC: 480 lb Conc. Load at 7.03
BC: 133 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 33.06,35.06,37.06,39.06,41.06,43.06,44.56

Wind

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

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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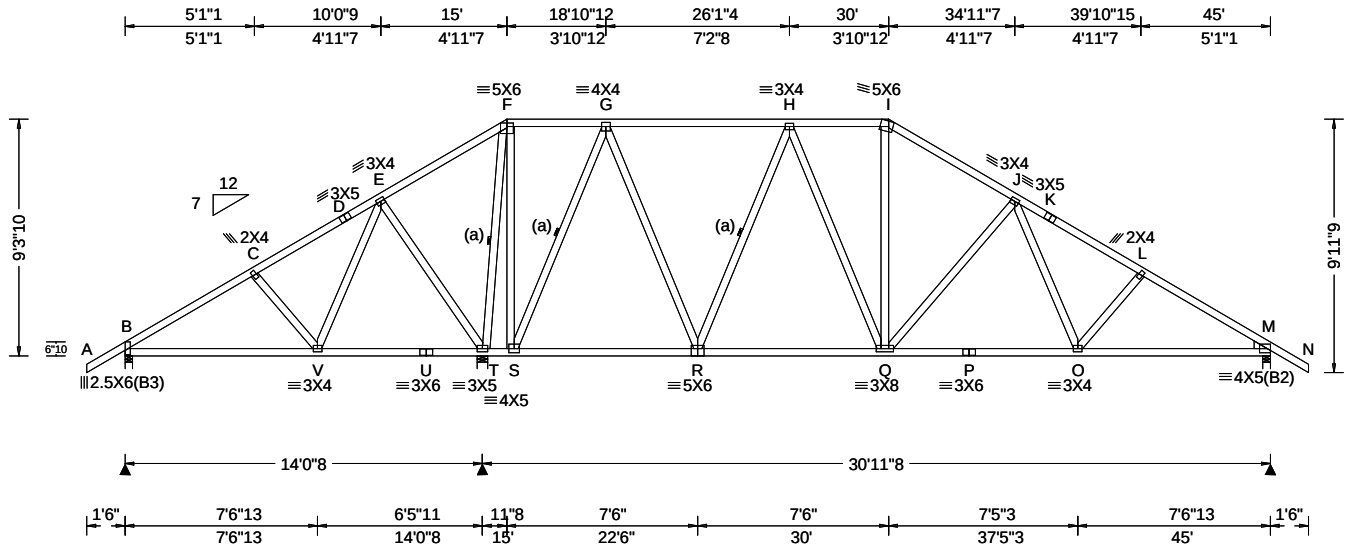
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409955 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B01	Cust: R 215 JRef:1X3f2150001 T13 DrwNo: 063.21.1320.48797 / YK 03/04/2021	



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.102	J	999	360
VERT(CL): 0.191	J	999	240
HORZ(LL): 0.038	O	-	-
HORZ(TL): 0.069	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.681
Max BC CSI: 0.903
Max Web CSI: 0.895

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	454	/-	/-	/288	/10	/288
T	2717	/-	/-	/1294	/58	/-
M	1415	/-	/-	/850	/60	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
T Brg Width = 4.9 Min Req = 2.8
M Brg Width = 3.5 Min Req = 1.7
Bearings B, T, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	747	0	J - K	125	-1789
G - H	118	-729	K - L	117	-1904
H - I	143	-1109	L - M	111	-2092
I - J	139	-1367			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	993	0	P - O	1455	0
Q - P	1455	0	O - M	1713	-29

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - E	438	0	G - R	1097	0
E - T	112	-579	R - H	74	-744
T - F	0	-2055	Q - I	417	-11
F - S	1509	-27	Q - J	106	-544
S - G	84	-1539	J - O	375	0

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

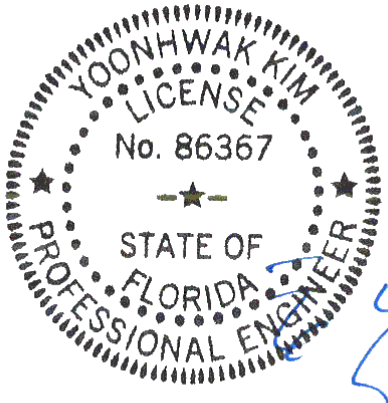
Bracing
(a) Continuous lateral restraint equally spaced on member.

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

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

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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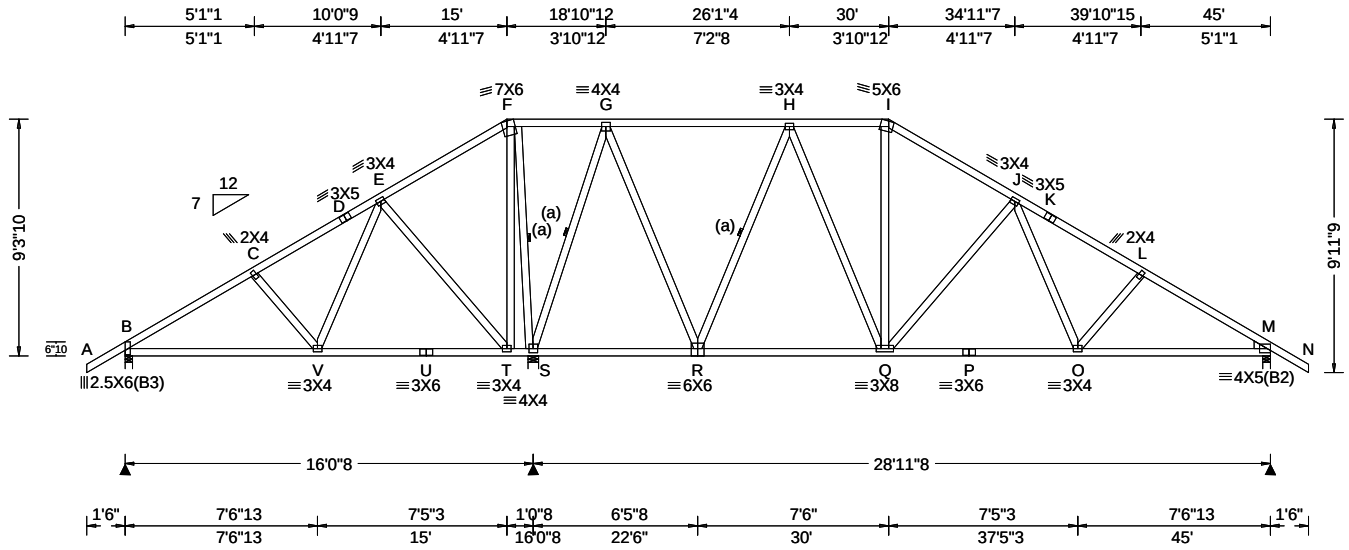
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409956 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B02	Cust: R 215 JRef:1X3f2150001 T12 DrwNo: 063.21.1320.50967 / YK 03/04/2021	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.075 O 999 360
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.143 O 999 240
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 O - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.047 O - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.758
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.824
Spacing:	24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.792
		C&C Dist a: 4.50 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
		GCpi: 0.18	WAVE	
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	486	/-	/-	/310	/19	/288
S	2899	/-	/-	/1348	/48	/-
M	1236	/-	/-	/770	/59	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
S Brg Width = 4.9 Min Req = 3.0
M Brg Width = 3.5 Min Req = 1.5
Bearings B, S, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	226	-405	I - J	137	-1023
E - F	832	0	J - K	123	-1459
F - G	789	0	K - L	115	-1575
H - I	142	-809	L - M	109	-1764

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	161	-663	P - O	1162	0
R - Q	616	0	O - M	1435	-28
Q - P	1162	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - E	489	0	G - R	1256	0
E - T	111	-614	R - H	75	-954
F - T	528	-35	H - Q	545	0
F - S	50	-1096	Q - J	106	-551
S - G	86	-1662	J - O	386	0

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

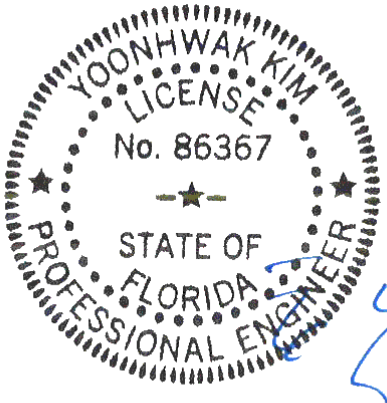
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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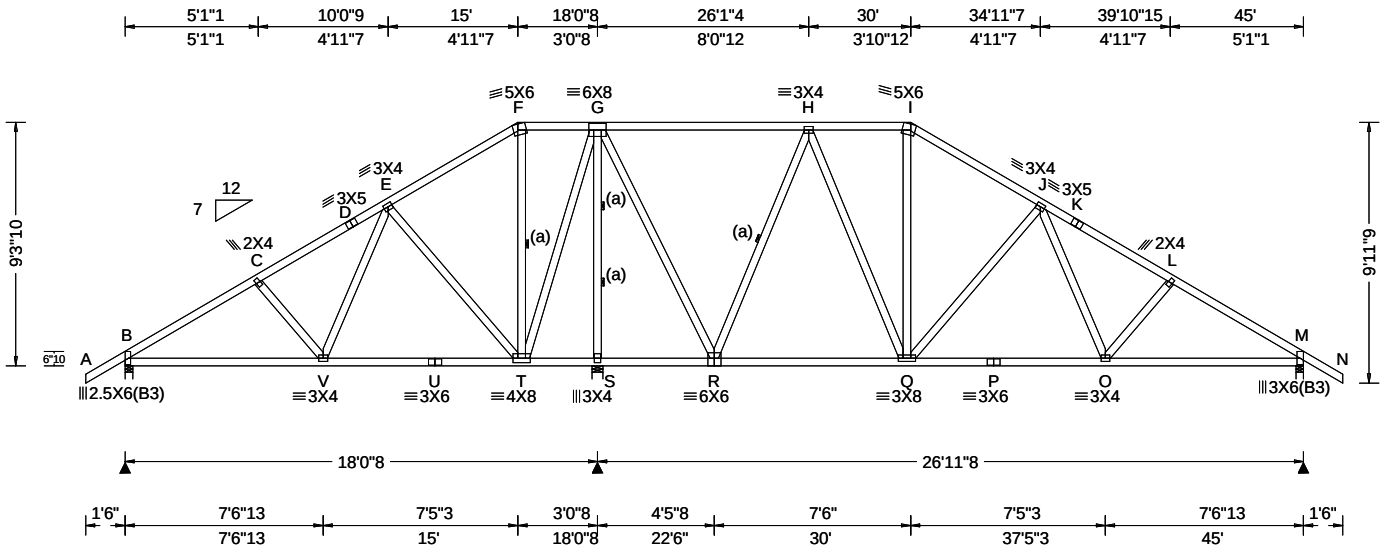
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409957 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B03	Cust: R 215 JRef:1X3f2150001 T11 DrwNo: 063.21.1320.53323 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.073	J	999	360
VERT(CL): 0.136	J	999	240
HORZ(LL): 0.028	O	-	-
HORZ(TL): 0.052	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.803
Max BC CSI: 0.827
Max Web CSI: 0.873

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	689	/-	/-	/435	/26	/288
S	2656	/-	/-	/1240	/39	/-
M	1180	/-	/-	/746	/57	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
S Brg Width = 4.9 Min Req = 2.8
M Brg Width = 3.5 Min Req = 1.5
Bearings B, S, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	44	- 776	I - J	133	- 916
C - D	50	- 581	J - K	120	- 1356
D - E	58	- 465	K - L	112	- 1472
H - I	138	- 716	L - M	106	- 1662

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - V	597	- 237	Q - P	1071	0
T - S	137	- 549	P - O	1071	0
S - R	137	- 549	O - M	1348	- 25
R - Q	503	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - E	468	0	R - H	82	- 1045
E - T	105	- 599	H - Q	589	0
T - G	943	- 46	Q - J	106	- 554
G - S	58	- 2541	J - O	388	0
G - R	1340	- 13			

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

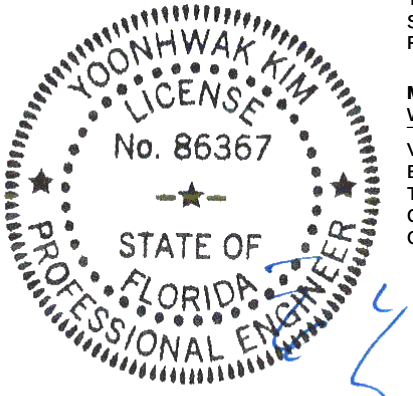
Bracing
(a) Continuous lateral restraint equally spaced on member.

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

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

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

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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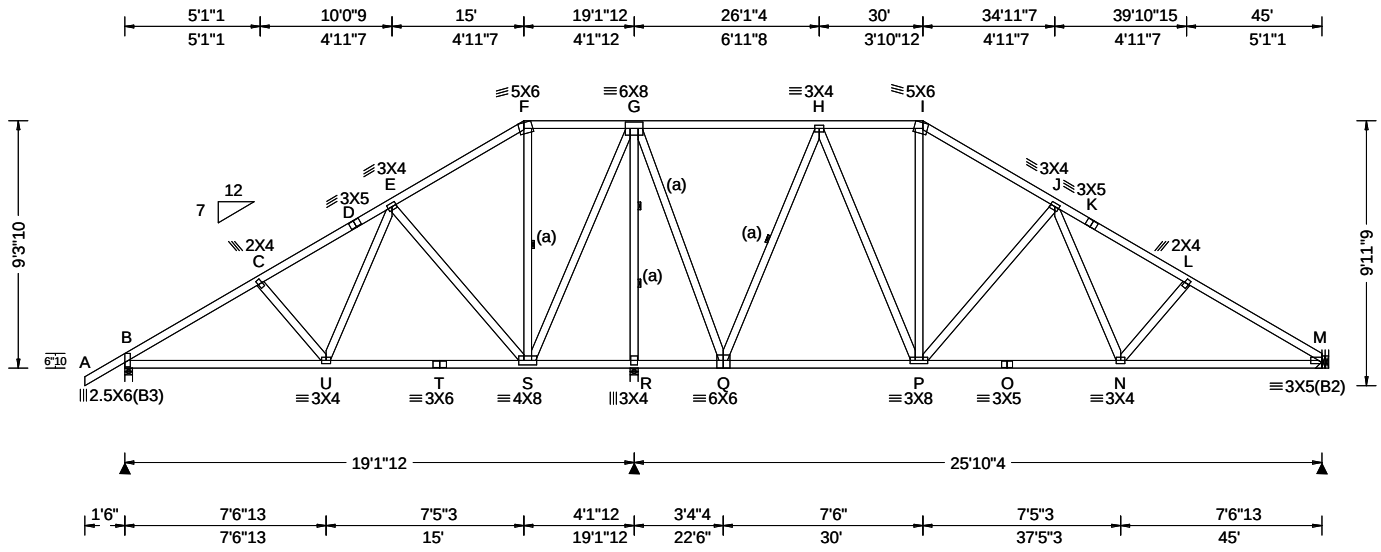
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409958 COMN FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B04	Cust: R 215 JRef:1X3f2150001 T20 DrwNo: 063.21.1320.56070 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.065	J	999	360
VERT(CL): 0.122	N	999	240
HORZ(LL): 0.025	N	-	-
HORZ(TL): 0.047	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.595
Max BC CSI: 0.814
Max Web CSI: 0.868

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	755	/-	/-	/475	/25	/272
R	2623	/-	/-	/1225	/43	/-
M	1021	/-	/-	/630	/44	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
R Brg Width = 3.5 Min Req = 2.7
M Brg Width = - Min Req = -
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	42	- 896	I - J	130	- 817
C - D	48	- 701	J - K	119	- 1277
D - E	56	- 585	K - L	111	- 1392
H - I	135	- 631	L - M	105	- 1586

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	698	- 209	Q - P	385	0
U - T	376	- 150	P - O	992	0
T - S	376	- 150	O - N	992	0
S - R	121	- 539	N - M	1291	- 42
R - Q	121	- 539			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
U - E	456	0	Q - H	76	- 1076
E - S	104	- 587	H - P	682	0
S - G	1028	- 45	P - J	107	- 561
G - R	62	- 2527	J - N	409	0
G - Q	1271	- 11			

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

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

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

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

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

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

Additional Notes
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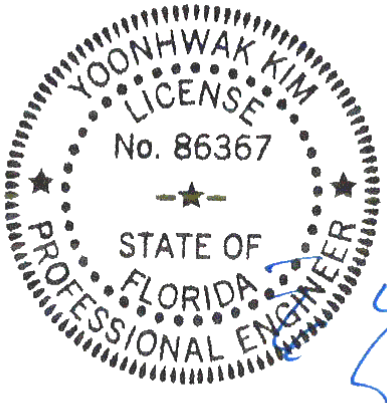
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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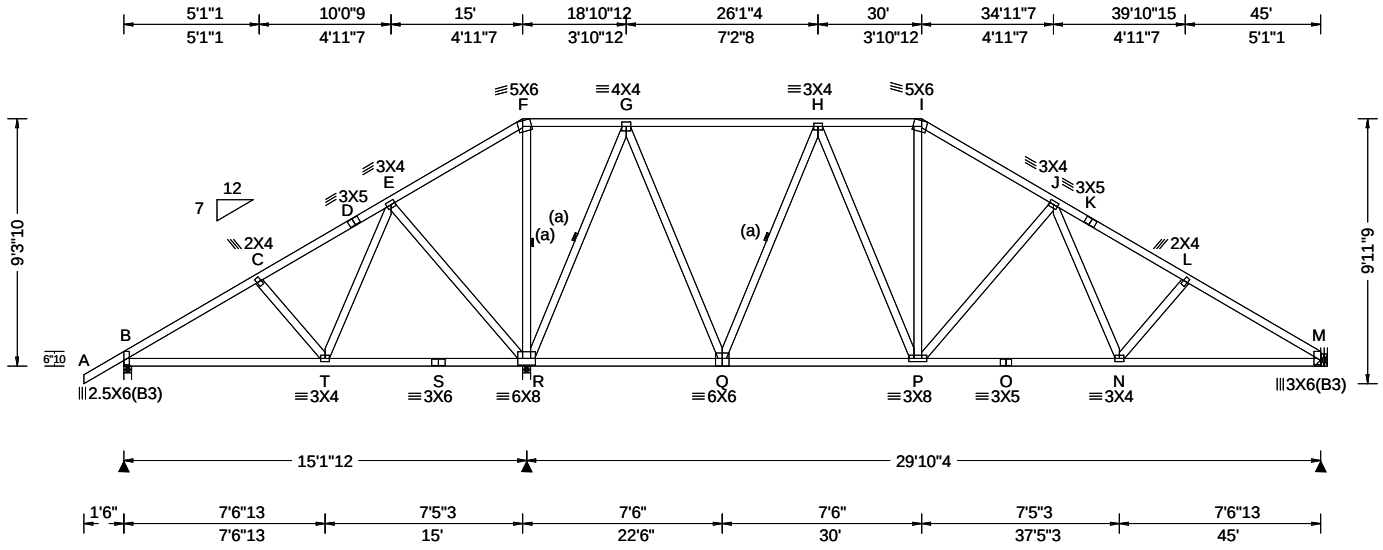
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409959 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B05		Cust: R 215 JRef:1X3f2150001 T8 DrwNo: 063.21.1320.58227 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.079	J	999	360
VERT(CL): 0.150	J	999	240
HORZ(LL): 0.026	N	-	-
HORZ(TL): 0.047	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.747
Max BC CSI: 0.824
Max Web CSI: 0.842

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
B	424	/-2	/-	/274	/21	/272
R	2931	/-	/-	/1363	/60	/-
M	1184	/-	/-	/703	/47	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
R Brg Width = 3.5 Min Req = 3.1
M Brg Width = - Min Req = -
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
D - E	387	-15	I - J	136	-1129
E - F	956	0	J - K	124	-1577
F - G	781	0	K - L	116	-1693
G - H	113	-415	L - M	110	-1884
H - I	141	-902			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
T - S	167	-438	P - O	1258	0
S - R	167	-438	O - N	1258	0
Q - P	732	0	N - M	1544	-46

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - E	478	0	Q - H	77	-893
E - R	112	-608	H - P	483	-1
F - R	27	-637	P - J	107	-557
R - G	88	-1684	J - N	395	0
G - Q	1226	0			

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

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

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

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

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

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

Additional Notes
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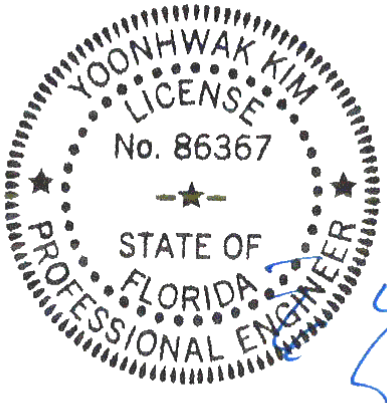
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 9-3-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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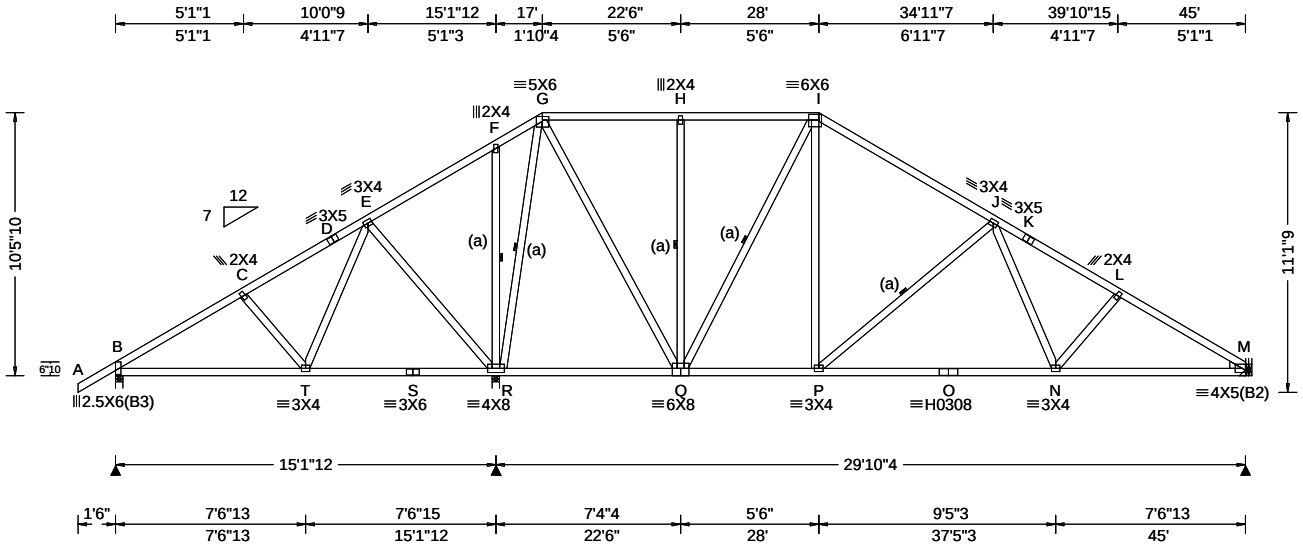
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409960 HIPS FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B06		Cust: R 215 JRef:1X3f2150001 T7 DrwNo: 063.21.1321.00987 / YK 03/04/2021	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.091	J	999	360
VERT(CL): 0.171	J	999	240
HORZ(LL): 0.031	N	-	-
HORZ(TL): 0.058	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.576
Max BC CSI: 0.901
Max Web CSI: 0.983

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	467	/-	/-	/293	/4	/304
R	2806	/-	/-	/1347	/55	/-
M	1231	/-	/-	/733	/46	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
R Brg Width = 3.5 Min Req = 2.9
M Brg Width = - Min Req = -
Bearings B & R are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
E - F	793	- 12	I - J	136	- 1078
F - G	712	0	J - K	118	- 1684
G - H	134	- 480	K - L	110	- 1799
H - I	134	- 480	L - M	103	- 1986

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	831	0	O - N	1342	0
P - O	1342	0	N - M	1626	- 40

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
T - E	469	0	Q - I	37	- 783
E - R	105	- 572	I - P	744	- 3
R - G	13	- 1795	P - J	125	- 676
G - Q	1444	- 52	J - N	441	0
H - Q	80	- 377			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Rt 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=44'9" uses the following support conditions: 44'9"
Bearing M (44'9", 8') 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.

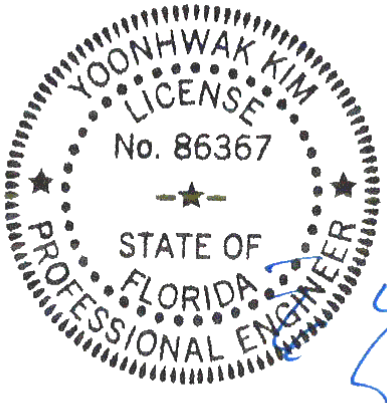
Loading

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.

Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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AN ITW COMPANY
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Orlando FL, 32821

Additional Notes

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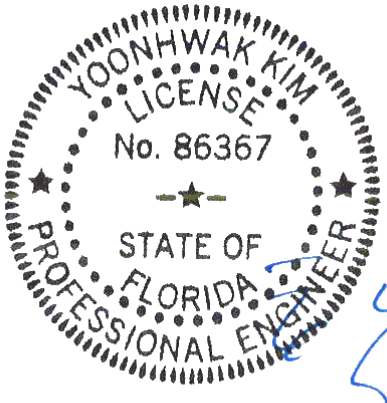
The overall height of this truss excluding overhang is 10-5-10.



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03/04/2021

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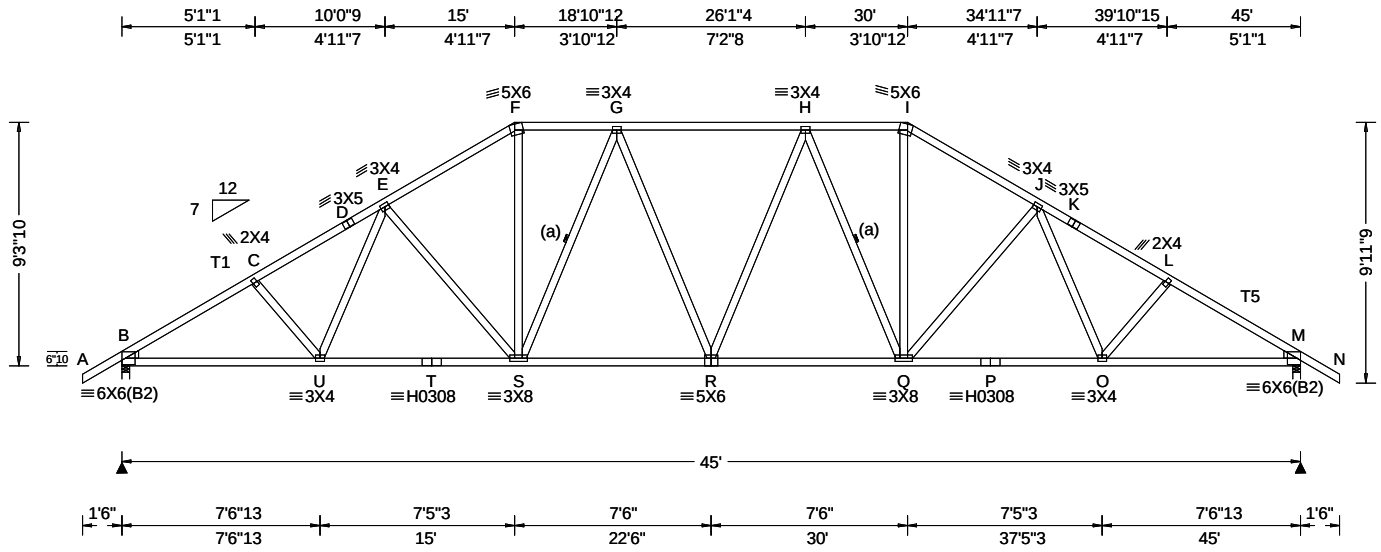
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 409961 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B07		Cust: R 215 JRef:1X3f2150001 T6 DrwNo: 063.21.1321.03487 / YK 03/04/2021	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.247	R	999	360
VERT(CL): 0.451	R	999	240
HORZ(LL): 0.108	O	-	-
HORZ(TL): 0.197	O	-	-

Creep Factor: 2.0
Max TC CSI: 0.771
Max BC CSI: 0.623
Max Web CSI: 0.603

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2236	/-	/-	/1179	/49	/288
M	2236	/-	/-	/1179	/49	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	87	-3585	H - I	125	-2488
C - D	94	-3406	I - J	118	-2949
D - E	101	-3290	J - K	105	-3290
E - F	117	-2949	K - L	97	-3406
F - G	124	-2488	L - M	91	-3585
G - H	91	-2767			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - U	2979	-111	R - Q	2707	0
U - T	2792	-51	Q - P	2791	0
T - S	2792	-51	P - O	2791	0
S - R	2707	0	O - M	2979	-13

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - S	108	-498	H - Q	95	-572
F - S	1208	-2	Q - I	1208	-2
S - G	95	-572	Q - J	111	-498

Lumber

Top chord: 2x4 SP #2; T1,T5 2x4 SP M-31;
Bot chord: 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.

Loading

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

Wind

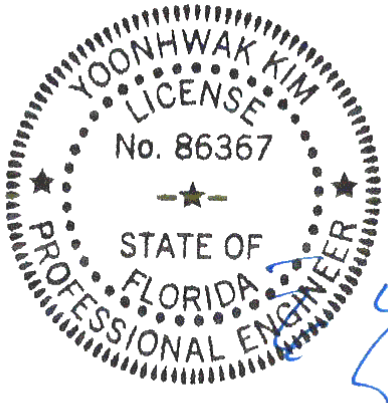
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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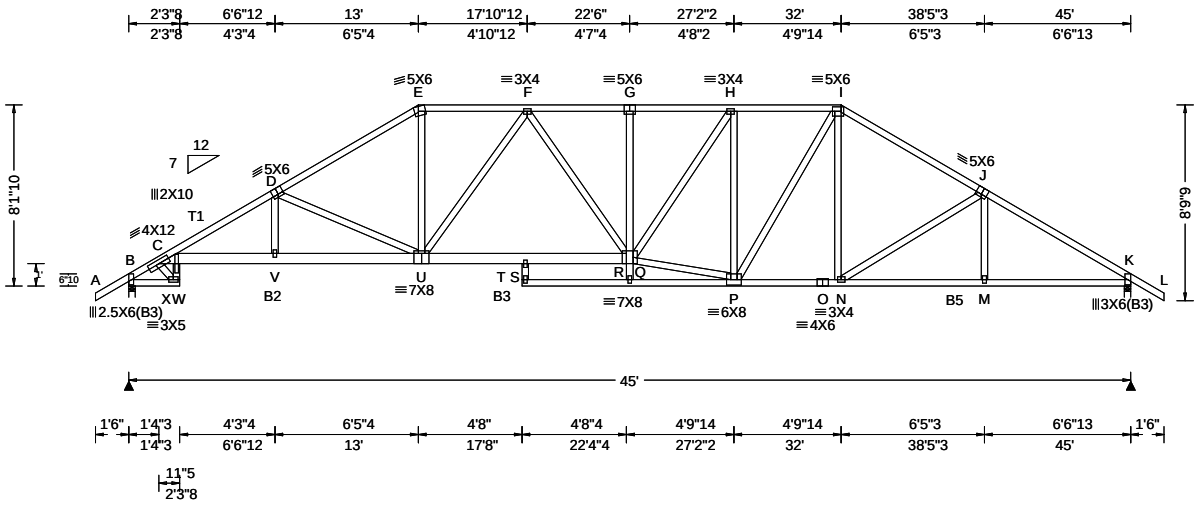
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410021 HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B08		Cust: R 215 JRef:1X3f2150001 T2 DrwNo: 063.21.1321.05593 / YK 03/04/2021	

2 Complete Trusses Required



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.185 T	999	360
VERT(CL):	0.359 T	999	240
HORZ(LL):	0.103 M	-	-
HORZ(TL):	0.200 M	-	-

Creep Factor: 2.0
Max TC CSI: 0.453
Max BC CSI: 0.532
Max Web CSI: 0.540

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2091	/-	/-	/1167	/105	/256
K	2091	/-	/-	/1167	/105	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
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	73	- 1329	G - H	132	- 1728
C - D	131	- 2269	H - I	117	- 1394
D - E	110	- 1667	I - J	107	- 1449
E - F	110	- 1405	J - K	91	- 1647
F - G	132	- 1732			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	996	- 87	S - Q	1606	- 65
C - X	1970	- 118	P - O	1208	- 24
X - V	1949	- 115	O - N	1208	- 24
V - U	1941	- 115	N - M	1367	- 39
U - S	1620	- 67	M - K	1367	- 38

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	136	- 1565	U - F	78	- 403
X - W	1055	- 86	Q - H	572	- 23
D - U	75	- 607	Q - P	1417	- 55
E - U	638	- 11	H - P	85	- 612

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2,B3 2x6 SP 2400f-2.0E;
B5 2x4 SP M-31;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

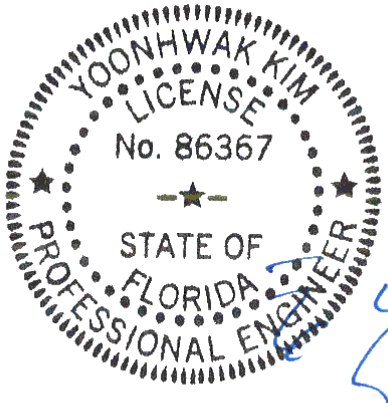
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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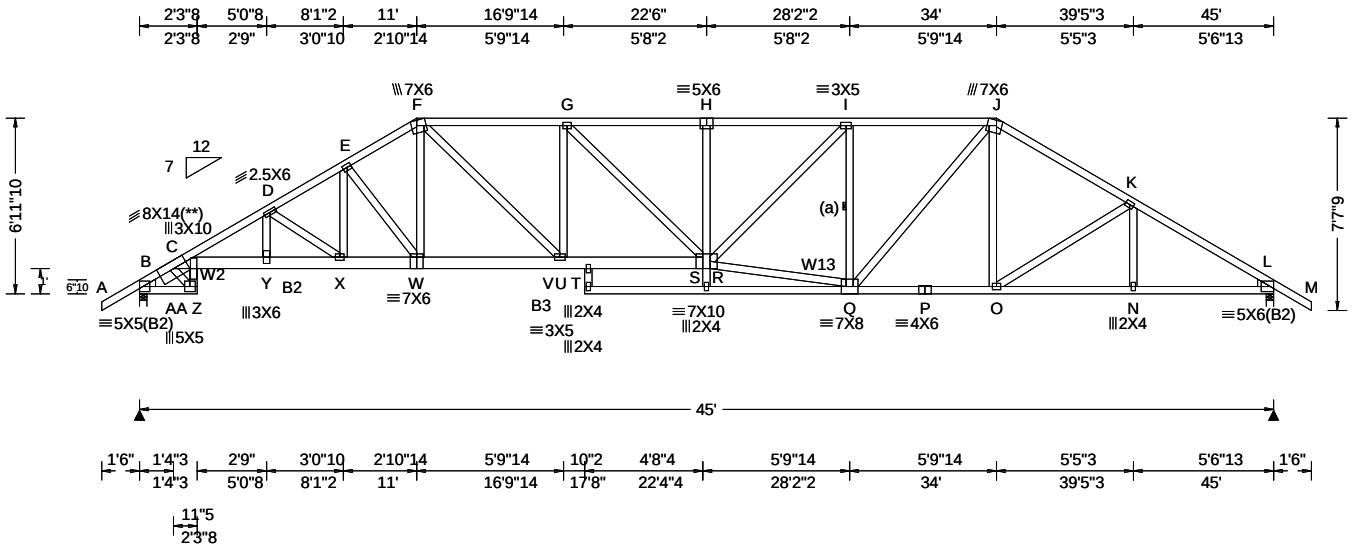
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409963 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B09	Cust: R 215 JRef:1X3f2150001 T5 DrwNo: 063.21.1321.15317 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.296 H 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.594 H 906 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.163 N - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.327 N - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.435
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.975
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.691
	C&C Dist a: 4.50 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 13.00 ft	Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1997	/-	/-	/1152	/118	/224
L	2038	/-	/-	/1152	/118	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.7
L Brg Width = 3.5 Min Req = 1.7
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	156	- 2503	G - H	345	- 3943
C - D	312	- 4775	H - I	344	- 3932
D - E	273	- 3766	I - J	296	- 3058
E - F	265	- 3308	J - K	232	- 2915
F - G	316	- 3563	K - L	203	- 3178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Z	1846	- 158	V - T	3600	- 193
C -AA	4168	- 277	T - R	3556	- 189
AA- Y	4125	- 272	Q - P	2451	- 94
Y - X	4096	- 271	P - O	2451	- 94
X - W	3162	- 180	O - N	2650	- 103
W - V	2833	- 136	N - L	2650	- 102

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	247	- 2886	F - V	1037	- 146
AA- Z	2000	- 160	V - G	167	- 719
Y - D	843	- 24	G - R	677	- 59
D - X	112	- 1131	R - I	1190	- 81
X - E	555	- 30	R - Q	3059	- 187
E - W	75	- 561	I - Q	204	- 1202
F - W	626	- 19	Q - J	921	- 140

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2,B3 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2 2x4 SP M-31; W13 2x4 SP #2;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

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

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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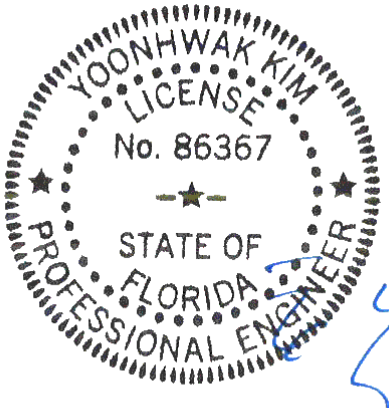
The overall height of this truss excluding overhang is 6-11-10.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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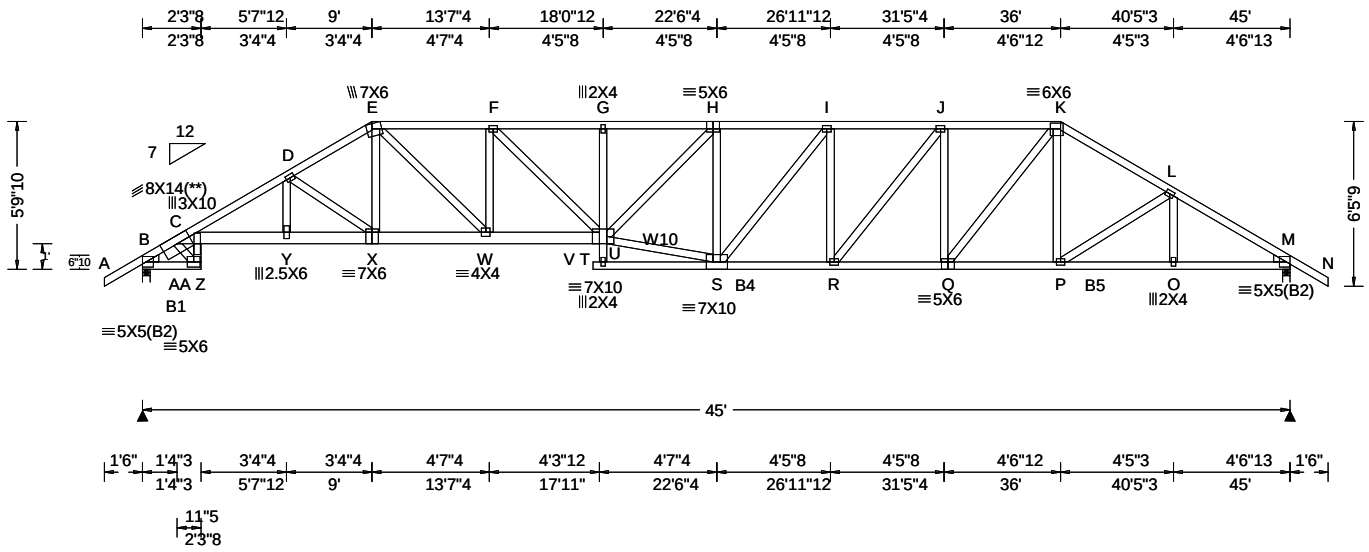
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409964 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B10		Cust: R 215 JRef:1X3f2150001 T4 DrwNo: 063.21.1321.17910 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.361 G	999	360
VERT(CL):	0.741 G	726	240
HORZ(LL):	0.177 O	-	-
HORZ(TL):	0.364 O	-	-

Creep Factor: 2.0
Max TC CSI: 0.562
Max BC CSI: 0.971
Max Web CSI: 0.891

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
B	1973	/-	/-		/1133	/128	/191
M	1973	/-	/-		/1133	/128	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 2.3
M Brg Width = 3.5 Min Req = 1.6
Bearings B & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	180	- 2485	H - I	382	- 3801
C - D	318	- 4493	I - J	389	- 3635
D - E	293	- 3561	J - K	340	- 3174
E - F	386	- 3960	K - L	264	- 2888
F - G	464	- 4677	L - M	213	- 3050
G - H	463	- 4664			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Z	1856	- 169	S - R	3660	- 299
C -AA	3921	- 263	R - Q	3217	- 254
AA- Y	3870	- 256	Q - P	2446	- 142
Y - X	3848	- 256	P - O	2529	- 122
X - W	3015	- 168	O - M	2528	- 121
W - T	4025	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Z	265	- 2919	T - H	1175	- 109
AA- Z	1969	- 166	T - S	3856	- 291
Y - D	736	- 12	H - S	162	- 1111
D - X	111	- 1046	I - R	102	- 464
E - X	605	- 22	R - J	693	- 72
E - W	1331	- 179	J - Q	174	- 830
W - F	188	- 952	Q - K	1161	- 165
F - T	926	- 97			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP #2; B4, B5 2x4 SP M-31;
Webs: 2x4 SP #3; W10 2x4 SP #2;
Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

Plating Notes

All plates are 3X4 except as noted.

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

Wind

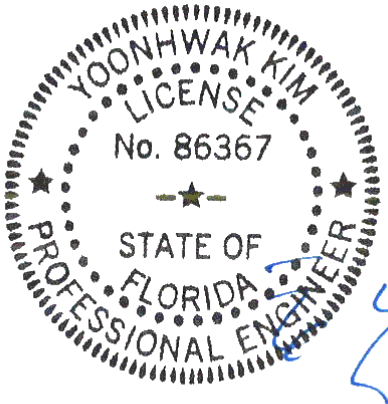
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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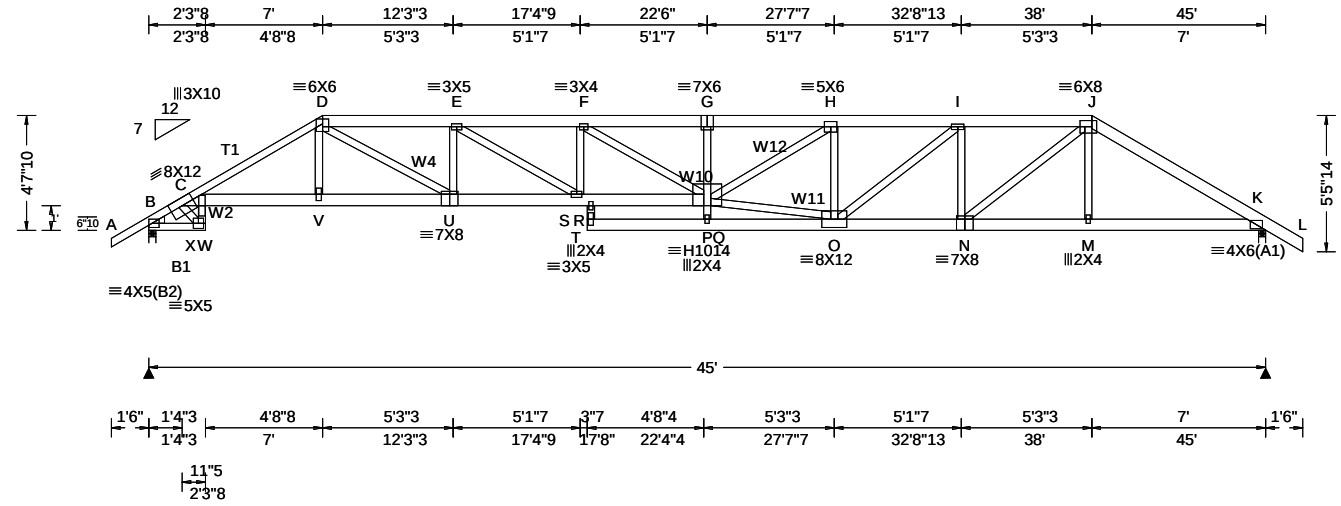
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410003 HIPS FROM:	Ply: 3 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** B11		Cust: R 215 JRef:1X3f2150001 T58 DrwNo: 063.21.1321.35127 / YK 03/04/2021	

3 Complete Trusses Required



Loading Criteria (psf)

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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 4.50 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.438	G	999	360
VERT(CL): 0.883	G	608	240
HORZ(LL): 0.181	M	-	-
HORZ(TL): 0.365	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.343
Max BC CSI: 0.927
Max Web CSI: 0.657

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	5139	/-	/-	/-	/1225	/-
K	5209	/-	/-	/-	/1231	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
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	548	- 2283	G - H	1641	- 6881
C - D	1000	- 4166	H - I	1152	- 4837
D - E	1238	- 5168	I - J	948	- 3985
E - F	1499	- 6263	J - K	741	- 3102
F - G	1655	- 6938			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	1721	- 414	T - R	6325	- 1519
C - X	3657	- 875	R - P	6260	- 1501
X - V	3623	- 866	O - N	4050	- 968
V - U	3588	- 860	N - M	2645	- 626
U - T	5254	- 1264	M - K	2638	- 627

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	648	- 2698	F - P	796	- 159
X - W	1804	- 428	P - H	2332	- 556
V - D	763	- 134	P - O	4788	- 1139
D - U	1869	- 446	H - O	428	- 1513
U - E	289	- 941	O - I	1028	- 240
E - T	1225	- 282	I - N	297	- 943
T - F	219	- 681	N - J	1726	- 414

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP M-31;
Webs: 2x4 SP #3; W2,W4,W12 2x4 SP #2; W10, W11 2x4 SP M-31;
Lt Wedge: 2x4 SP #3;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	63 plf at	-1.50 to	63 plf at	46.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	45.00
BC: From	5 plf at	45.00 to	5 plf at	46.50

TC: 214 lb Conc. Load at 7.03
TC: 196 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06
TC: 197 lb Conc. Load at 19.06,21.06,22.50,23.94 25.94,27.94,29.94,31.94,33.94,35.94
TC: 291 lb Conc. Load at 37.97
BC: 519 lb Conc. Load at 7.03
BC: 123 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06
BC: 133 lb Conc. Load at 19.06,21.06,22.50,23.94 25.94,27.94,29.94,31.94,33.94,35.94
BC: 480 lb Conc. Load at 37.97

Plating Notes

All plates are 2.5X6 except as noted.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

YOONHWAK KIM LICENSE No. 86367 STATE OF FLORIDA PROFESSIONAL ENGINEER

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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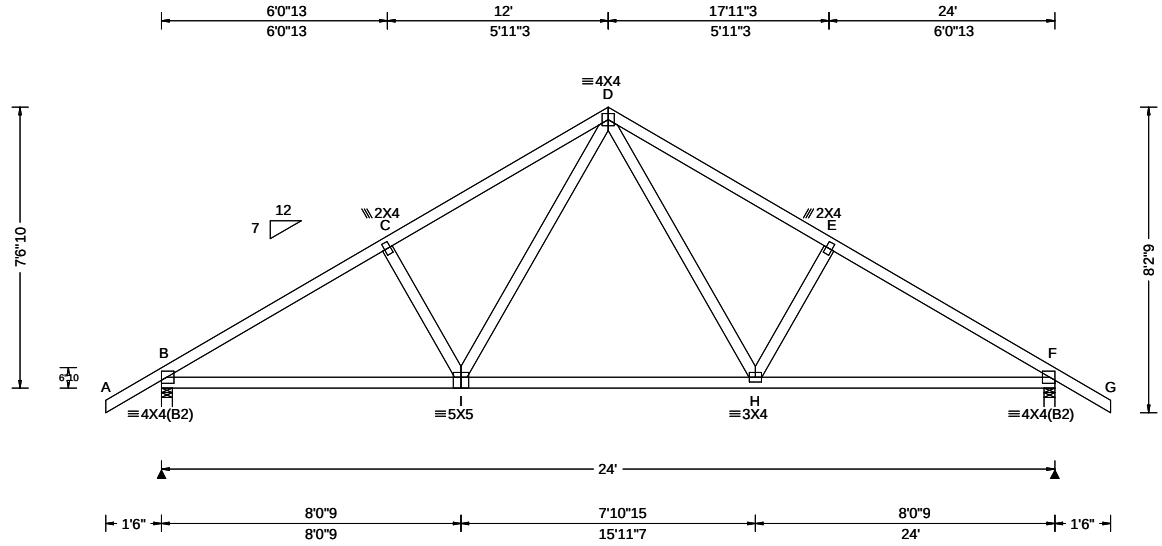
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409965 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C01	Cust: R 215 JRef:1X3f2150001 T30 DrwNo: 063.21.1321.37340 / YK 03/04/2021		



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.074	H	999	360
VERT(CL): 0.141	H	999	240
HORZ(LL): 0.037	H	-	-
HORZ(TL): 0.070	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.575
Max BC CSI: 0.741
Max Web CSI: 0.214

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1171	/-	/-	/658	/189	/224
F	1171	/-	/-	/658	/189	/-

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	280	-1639	D - E	319	-1459
C - D	320	-1458	E - F	279	-1640

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1324	-142	H - F	1325	-142
I - H	912	-5			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	559	-95	D - H	562	-94

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.

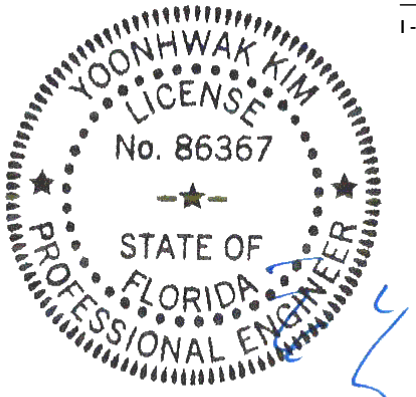
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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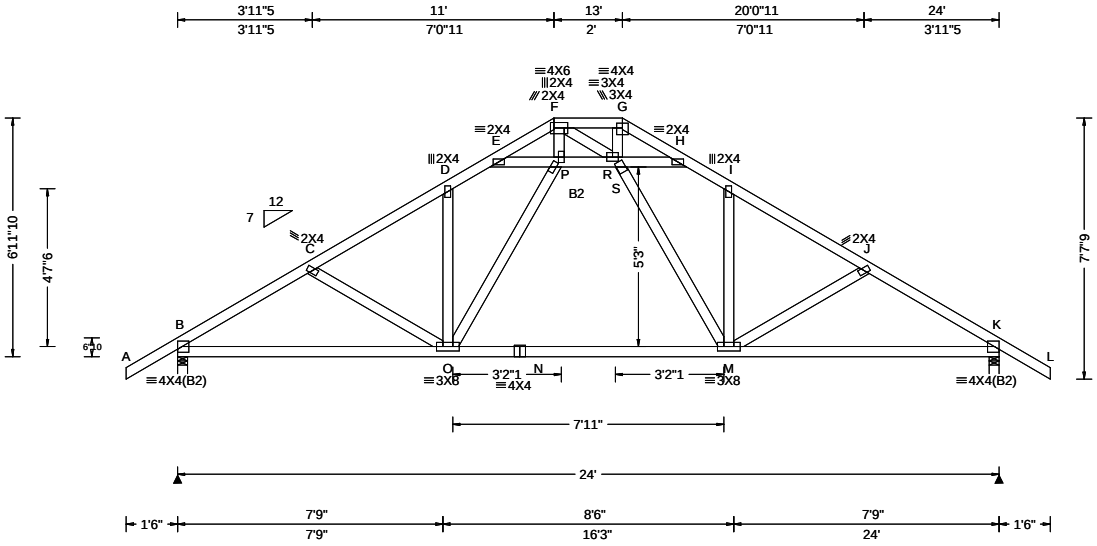
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409966 HIP_ FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C02	Cust: R 215 JRef:1X3f2150001 T29 DrwNo: 063.21.1321.39177 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.088	I	999	360
VERT(CL): 0.168	I	999	240
HORZ(LL): 0.039	M	-	-
HORZ(TL): 0.074	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.861
Max BC CSI: 0.474
Max Web CSI: 0.288

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1331	/-	/-	/659	/190	/209
K	1331	/-	/-	/659	/190	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
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	297	-1978	G - H	245	-1372
C - D	260	-1791	H - I	320	-1744
D - E	320	-1741	I - J	260	-1789
E - F	241	-1378	J - K	297	-1976
F - G	243	-1296			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	1617	-178	N - M	1140	-21
O - N	1140	-21	M - K	1616	-178

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - P	751	-94	R - G	618	-85
F - P	632	-73	S - M	755	-95

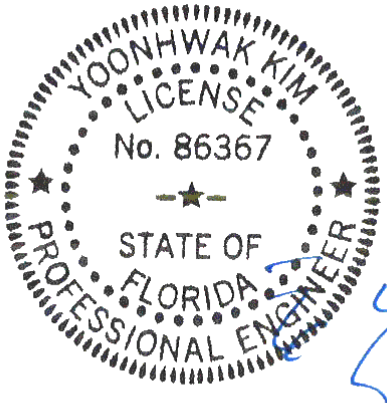
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #3;

Loading
BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 8-0-8 to 15-11-8.

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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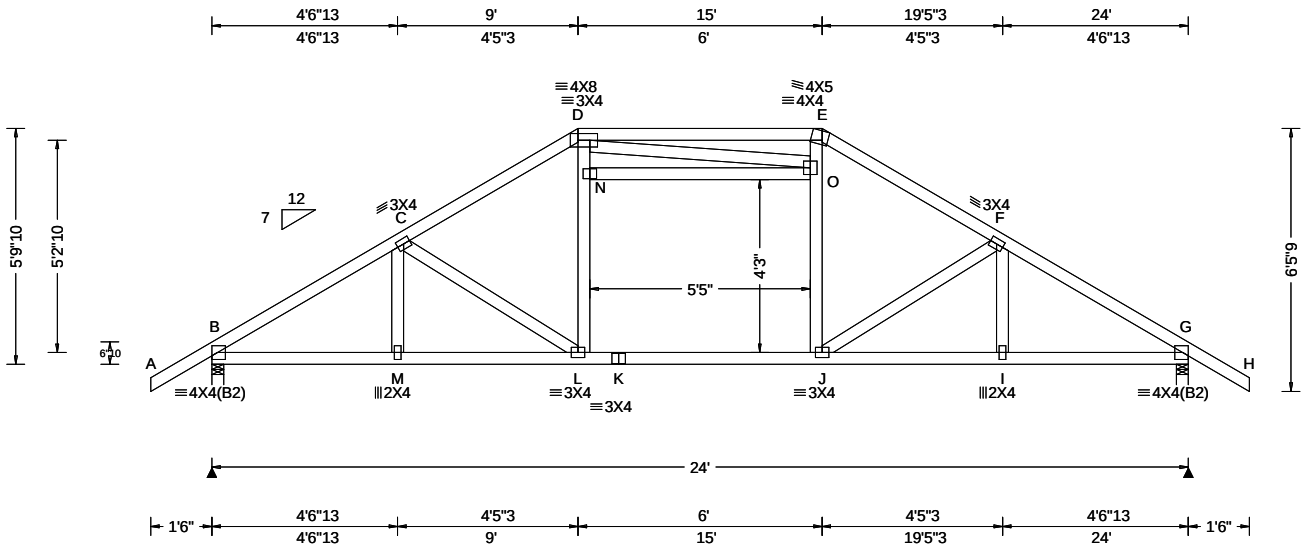
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 409967 HIP_ FROM: CDM	Ply: 1 Qty: 4	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C03	Cust: R 215 JRef:1X3f2150001 T28 DrwNo: 063.21.1321.40730 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.098	J	999	360
VERT(CL): 0.241	J	999	240
HORZ(LL): 0.047	L	-	-
HORZ(TL): 0.124	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.556
Max BC CSI: 0.874
Max Web CSI: 0.747

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1263	/-	/-	/657	/194	/179
G	1263	/-	/-	/657	/194	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	271	-1785	E - F	278	-1578
C - D	279	-1582	F - G	271	-1787
D - E	268	-1286			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - M	1455	-150	K - J	1318	-66
M - L	1456	-151	J - I	1457	-151
L - K	1318	-66	I - G	1457	-150

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - N	407	-6	O - J	403	-5
D - N	418	-6	O - E	418	-6

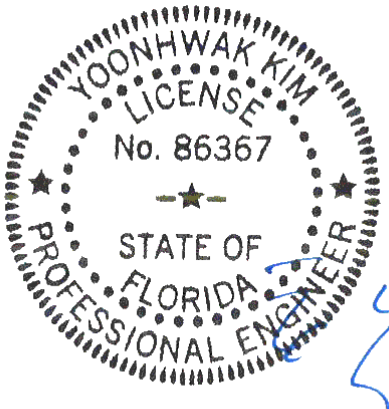
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Loading
BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 9-3-8 to 14-8-8.

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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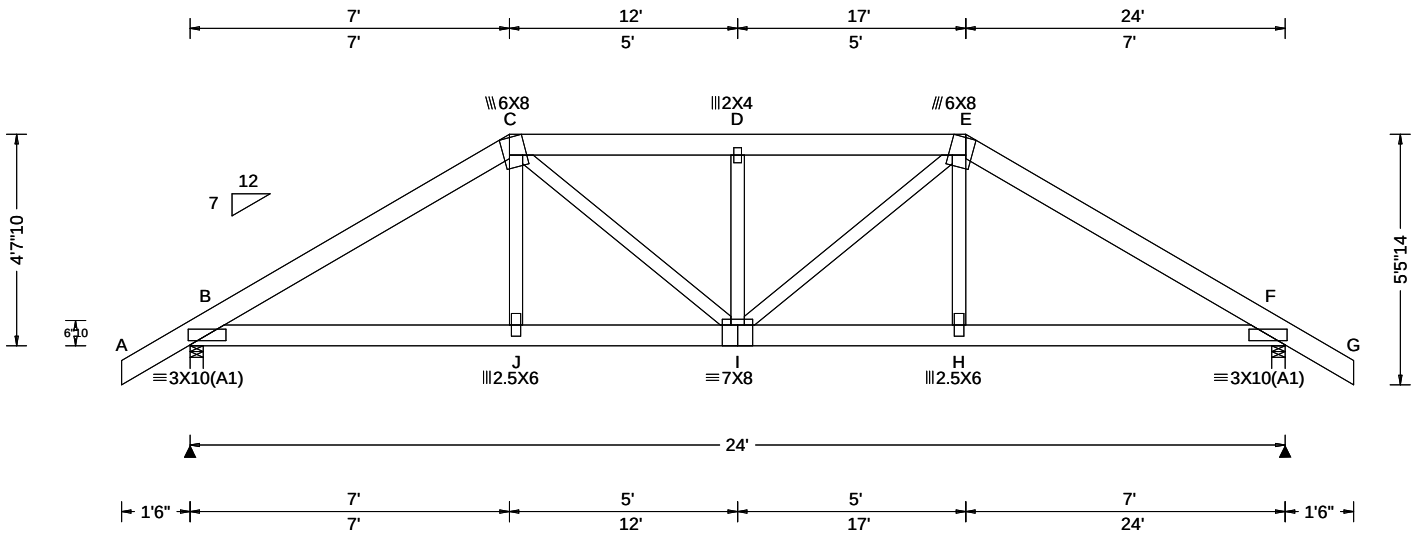
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410004 HIPS FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C04		Cust: R 215 JRef:1X3f2150001 T21 DrwNo: 063.21.1321.51497 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.074	D	999	360
VERT(CL): 0.149	D	999	240
HORZ(LL): 0.027	H	-	-
HORZ(TL): 0.054	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.152
Max BC CSI: 0.245
Max Web CSI: 0.311

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2324	/-	/-	/-	/556	/-
F	2324	/-	/-	/-	/556	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.9
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	936	- 3800	D - E	944	- 3836
C - D	944	- 3836	E - F	936	- 3800

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	3185	- 773	I - H	3207	- 772
J - I	3207	- 772	H - F	3185	- 773

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - J	636	0	I - E	815	- 222
C - I	815	- 222	H - E	636	0
D - I	351	- 642			

Lumber

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

Special Loads

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

TC: From	63 plf at	-1.50 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	17.00
TC: From	63 plf at	17.00 to	63 plf at	25.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	7.03
BC: From	10 plf at	7.03 to	10 plf at	16.97
BC: From	20 plf at	16.97 to	20 plf at	24.00
BC: From	5 plf at	24.00 to	5 plf at	25.50

TC: 291 lb Conc. Load at 7.03,16.97
TC: 197 lb Conc. Load at 9.06,11.06,12.94,14.94
BC: 480 lb Conc. Load at 7.03,16.97
BC: 133 lb Conc. Load at 9.06,11.06,12.94,14.94

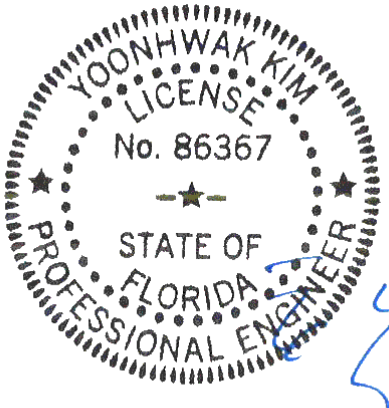
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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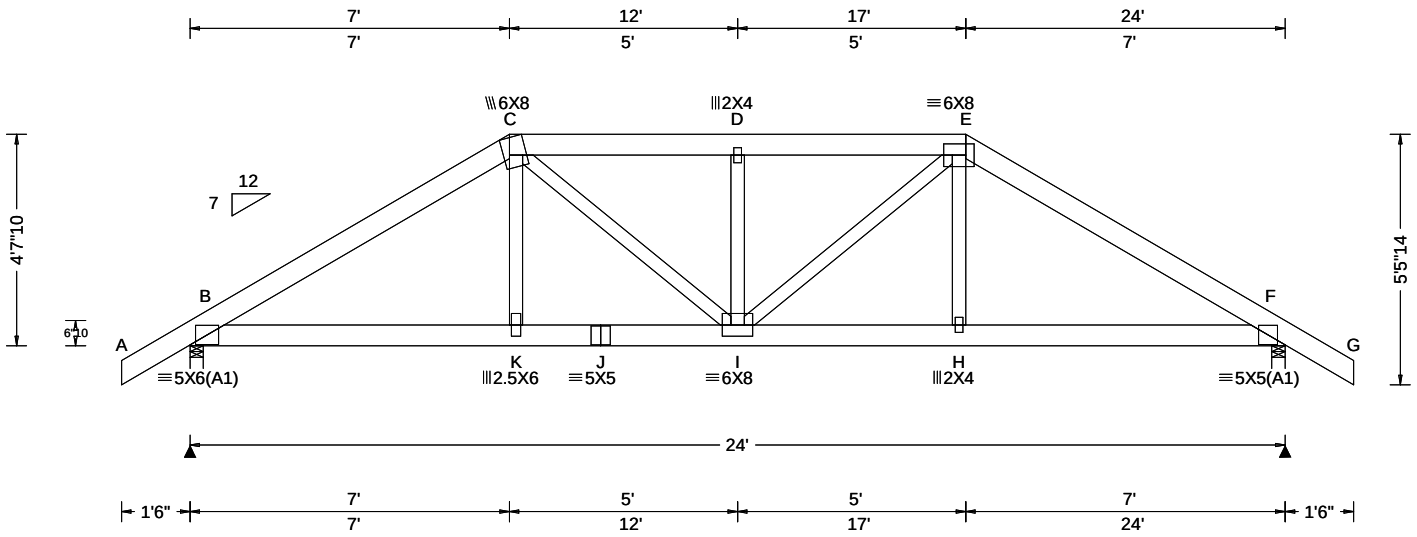
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410005 HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C05		Cust: R 215 JRef:1X3f2150001 T57 DrwNo: 063.21.1321.57567 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.078	D	999	360
VERT(CL): 0.157	D	999	240
HORZ(LL): 0.026	H	-	-
HORZ(TL): 0.052	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.287
Max Web CSI: 0.689

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2461	/-	/-	/-	/535	/-
F	2062	/-	/-	/-	/423	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 2.0
F Brg Width = 3.5 Min Req = 1.7
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	897	- 4074	D - E	864	- 4149
C - D	865	- 4150	E - F	682	- 3301

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	3420	- 740	I - H	2758	- 550
K - J	3444	- 740	H - F	2755	- 553
J - I	3444	- 740			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	683	0	D - I	225	- 430
C - I	915	- 161	I - E	1808	- 407

Lumber

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

Special Loads

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

TC: From	63 plf at	-1.50 to	63 plf at	7.00
TC: From	32 plf at	7.00 to	32 plf at	11.88
TC: From	63 plf at	11.88 to	63 plf at	25.50
BC: From	5 plf at	-1.50 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	11.88
BC: From	20 plf at	11.88 to	20 plf at	24.00
BC: From	5 plf at	24.00 to	5 plf at	25.50

TC: 291 lb Conc. Load at 7.03
TC: 197 lb Conc. Load at 9.06,11.06
BC: 480 lb Conc. Load at 7.03
BC: 133 lb Conc. Load at 9.06,11.06
BC: 1094 lb Conc. Load at 11.88

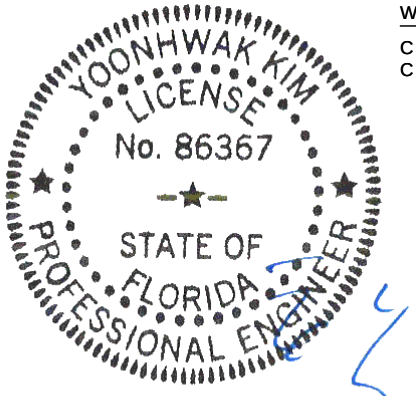
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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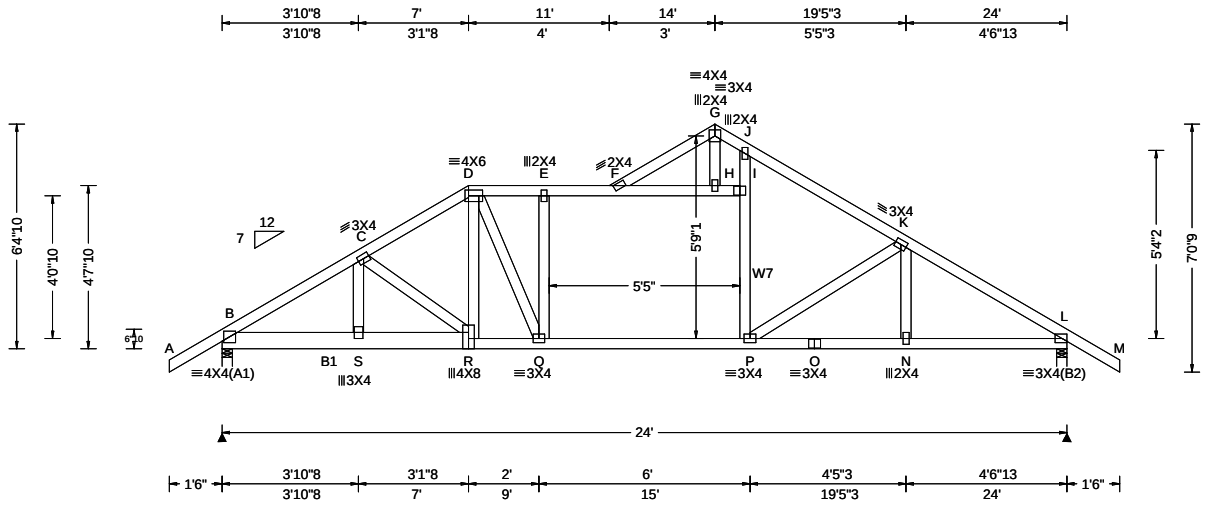
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410006 SPEC FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** C06	Cust: R 215 JRef:1X3f2150001 T62 DrwNo: 063.21.1322.23150 / YK 03/04/2021		

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.304	E	939	360
VERT(CL): 0.600	E	476	240
HORZ(LL): 0.130	D	-	-
HORZ(TL): 0.257	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.845
Max BC CSI: 0.521
Max Web CSI: 0.789

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	2613	/-	/-	/-	/318	/-
L	1509	/-	/-	/-	/240	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
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	217	-2009	F - H	82	-737
C - D	171	-1414	G - J	77	-499
D - E	131	-1101	H - I	82	-737
E - F	133	-1100	J - K	144	-1097
F - G	66	-436	K - L	155	-1070

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	1693	-175	P - O	879	-120
S - R	1685	-175	O - N	879	-120
R - Q	1214	-140	N - L	876	-119
Q - P	1100	-133			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - C	618	-39	D - R	718	-62
C - R	47	-602	G - H	470	-61

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31; B1 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W7 2x4 SP M-31;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

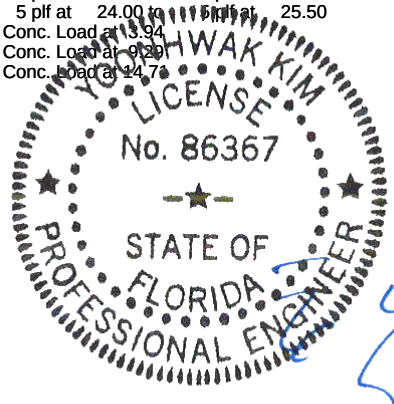
Loading
BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from 9-3-8 to 14-8-8.

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

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

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

Special loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 23 plf at -1.50 to 23 plf at 7.00
TC: From 40 plf at -1.50 to 40 plf at 25.50
TC: From 23 plf at 7.00 to 23 plf at 25.50
PLT: From -10 plf at 15.00 to -10 plf at 14.00
PLT: From 5 plf at 14.00 to 5 plf at 14.71
PLT: From 50 plf at 9.29 to 50 plf at 14.71
BC: From 5 plf at -1.50 to 5 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 24.00
BC: From 5 plf at 24.00 to 5 plf at 25.50
BC: 1611 lb Conc. Load at 13.94
BC: 16 lb Conc. Load at 9.29
BC: 21 lb Conc. Load at 14.71



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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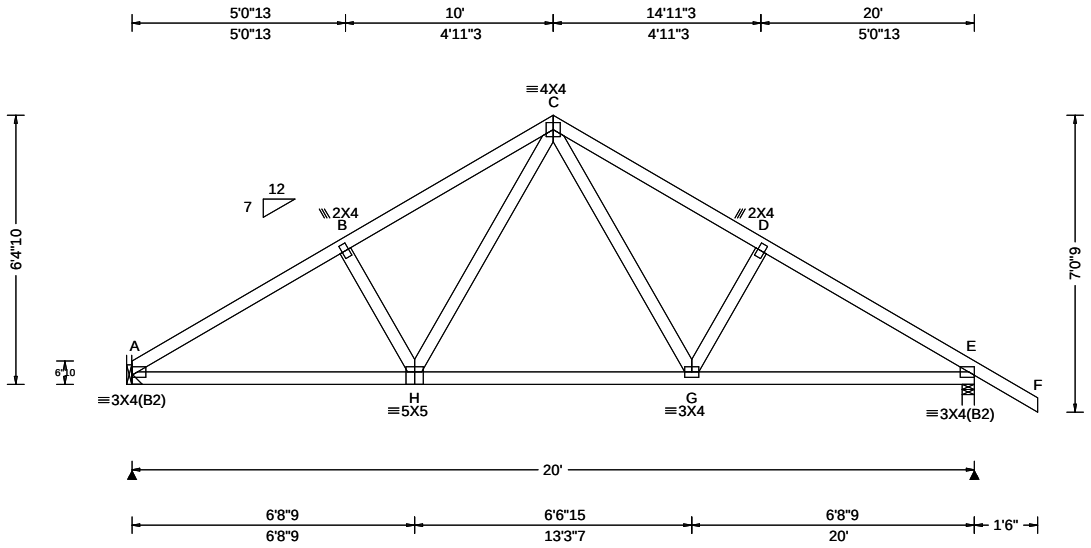
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409968 COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** D01		Cust: R 215 JRef:1X3f2150001 T36 DrwNo: 063.21.1322.25293 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.049	G	999	360
VERT(CL): 0.095	G	999	240
HORZ(LL): 0.025	G	-	-
HORZ(TL): 0.049	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.466
Max BC CSI: 0.561
Max Web CSI: 0.171

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	872	/-	/-	/477	/9	/178
E	982	/-	/-	/563	/16	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
E Brg Width = 3.5 Min Req = 1.5
Bearing E 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.
A - B	49	-1327	C - D	79	-1165
B - C	81	-1178	D - E	48	-1314

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	1072	-79	G - E	1054	0
H - G	737	-4			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - C	450	-39	C - G	429	-41

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

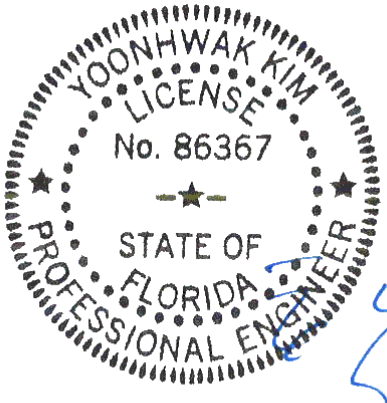
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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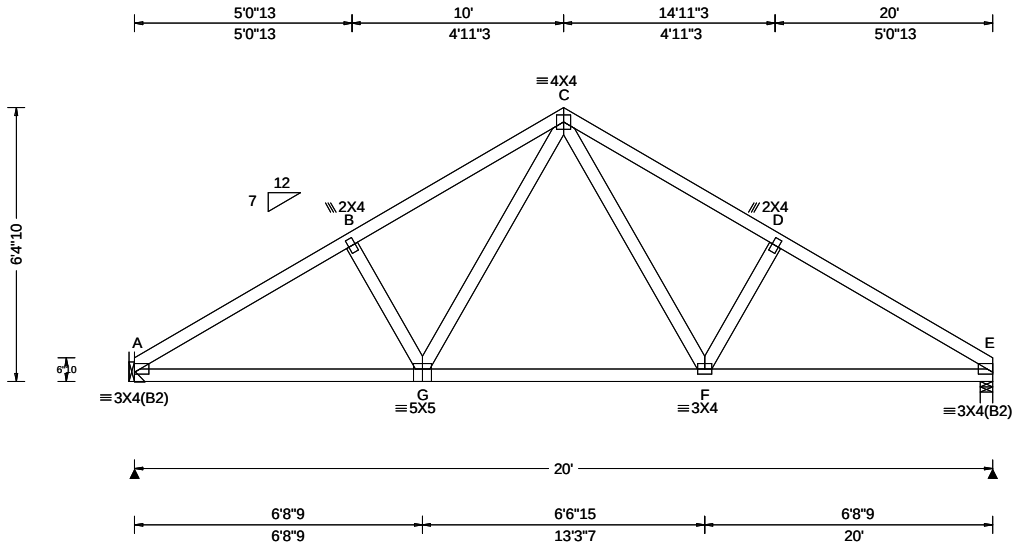
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409969 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** D02	Cust: R 215 JRef:1X3f2150001 T44 DrwNo: 063.21.1322.26877 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	F	999	360
VERT(CL): 0.092	F	999	240
HORZ(LL): 0.023	F	-	-
HORZ(TL): 0.045	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.360
Max BC CSI: 0.522
Max Web CSI: 0.172

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	876	/-	/-	/477	/9	/150
E	876	/-	/-	/477	/9	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
E Brg Width = 3.5 Min Req = 1.5
Bearing E 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.
A - B	49	- 1334	C - D	81	- 1186
B - C	81	- 1185	D - E	49	- 1336

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - G	1078	- 47	F - E	1079	0
G - F	743	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	449	- 41	C - F	450	- 44

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

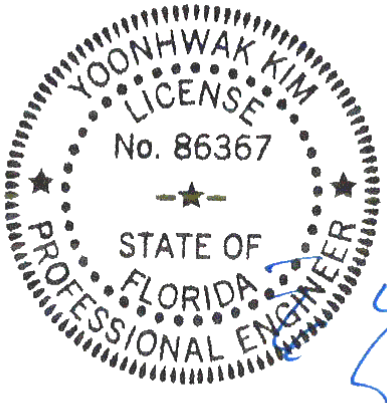
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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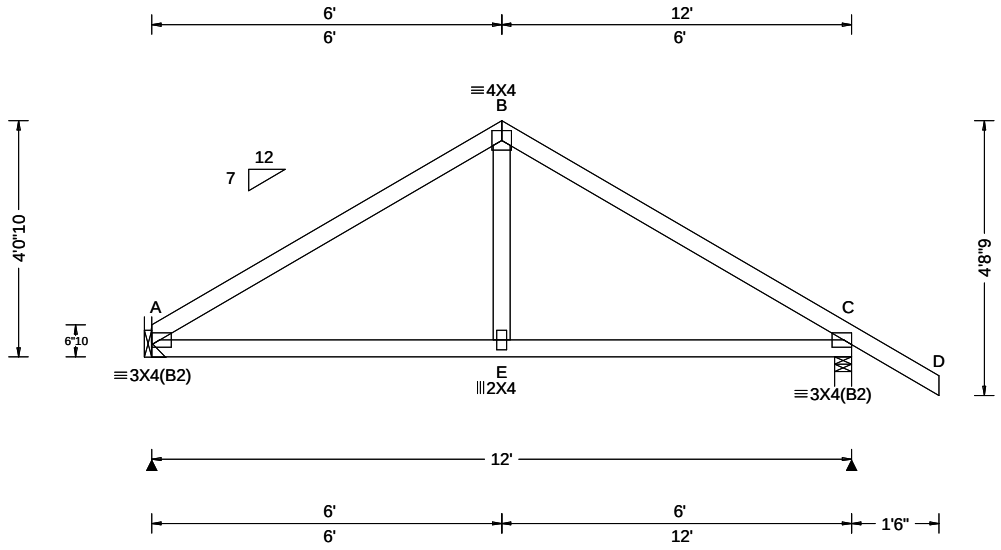
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409970 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** G01	Cust: R 215 JRef:1X3f2150001 T33 DrwNo: 063.21.1322.28907 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	E	999	360
VERT(CL): 0.015	E	999	240
HORZ(LL): 0.004	E	-	-
HORZ(TL): 0.008	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.368
Max BC CSI: 0.366
Max Web CSI: 0.100

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	492	/-	/-	/285	/78	/117
C	608	/-	/-	/374	/108	/-

Wind reactions based on MWFRS
A Brg Width = - Min Req = -
C Brg Width = 3.5 Min Req = 1.5
Bearing C is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	117	-605	B - C	118	-610

Maximum Bot Chord Forces Per Ply (lbs)

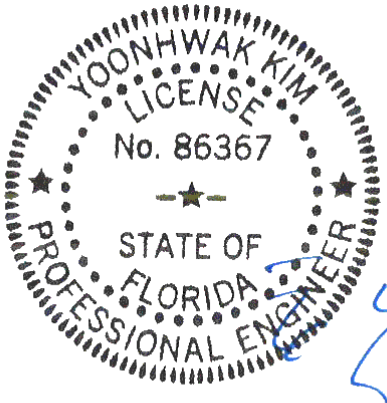
Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	446	-16	E - C	446	-16

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

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

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

Additional Notes
The overall height of this truss excluding overhang is 4-0-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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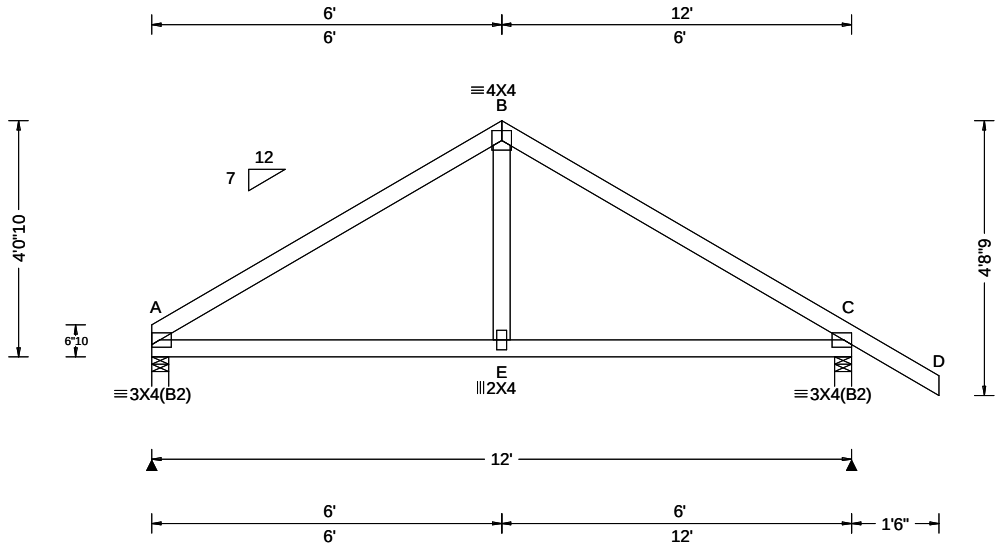
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409971 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** G02	Cust: R 215 JRef:1X3f2150001 T10 DrwNo: 063.21.1322.30460 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	E	999	360
VERT(CL): 0.015	E	999	240
HORZ(LL): 0.004	E	-	-
HORZ(TL): 0.008	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.368
Max BC CSI: 0.366
Max Web CSI: 0.100

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	492	/-	/-	/285	/78	/117
C	608	/-	/-	/374	/108	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	117	-605	B - C	118	-610

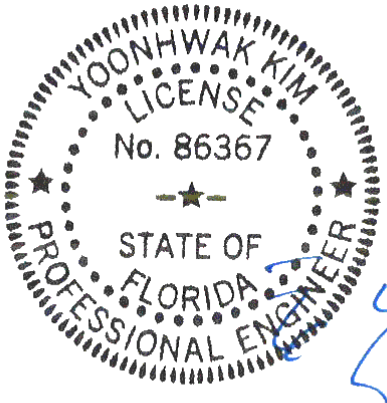
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	446	-16	E - C	446	-16

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.
Wind loading based on both gable and hip roof types.

Additional Notes
The overall height of this truss excluding overhang is 4-0-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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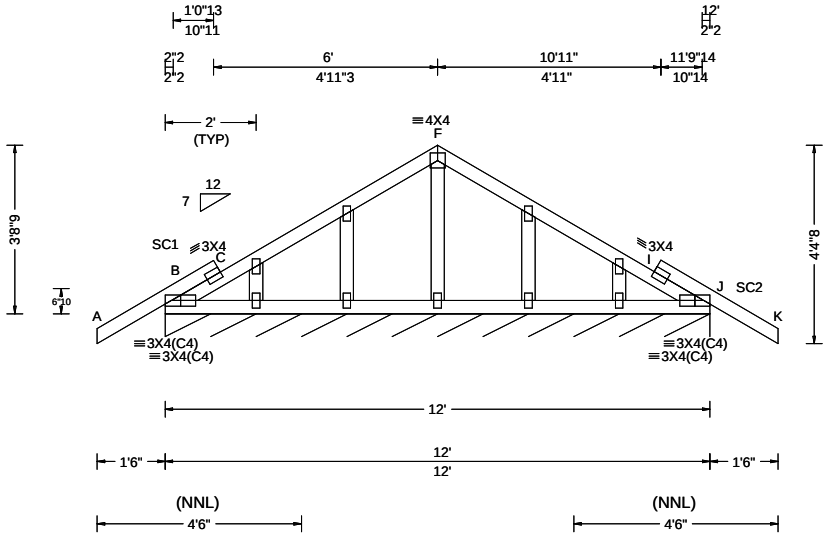
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409972 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** G03	Cust: R 215 JRef:1X3f2150001 T22 DrwNo: 063.21.1322.33090 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 P 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 P 881 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 I - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 I - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.327
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.122
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.032
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J*	151	/-	/-	/67	/-	/6

Wind reactions based on MWFRS
J Brg Width = 144 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	477	-495	I - J	477	-493

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

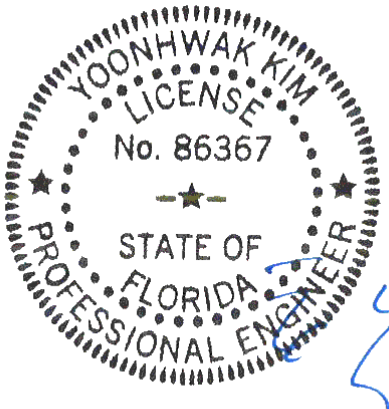
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhang is 3-8-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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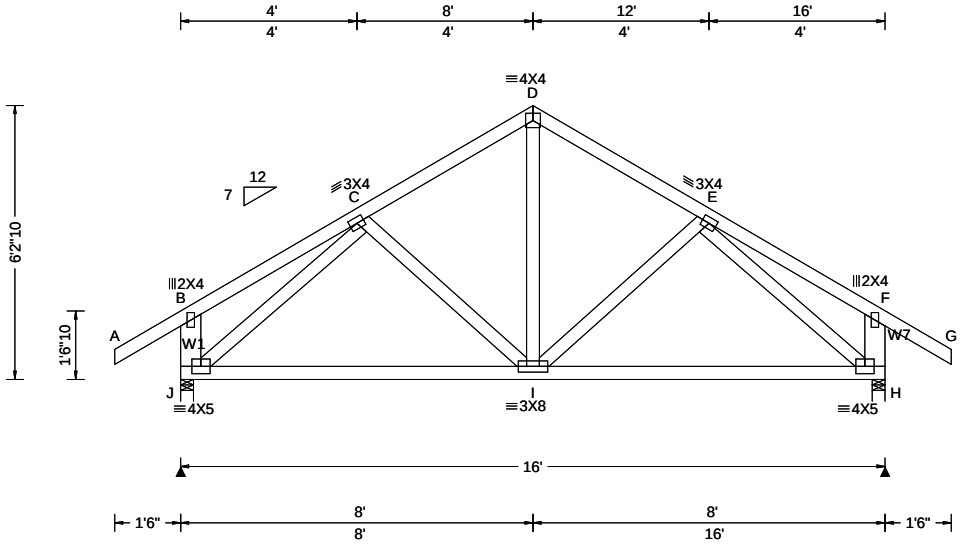
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409973 COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** H01		Cust: R 215 JRef:1X3f2150001 T48 DrwNo: 063.21.1322.34740 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.013 I 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.026 I 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 F - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.015 F - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.635
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.335
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	767	/-	/-	/456	/134	/164
H	767	/-	/-	/456	/134	/-

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

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	162	- 611	D - E	162	- 611

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	540	- 94	I - H	540	- 67

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
J - C	112	- 643	E - H	112	- 643

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W1,W7 2x6 SP 2400f-2.0E;

Wind

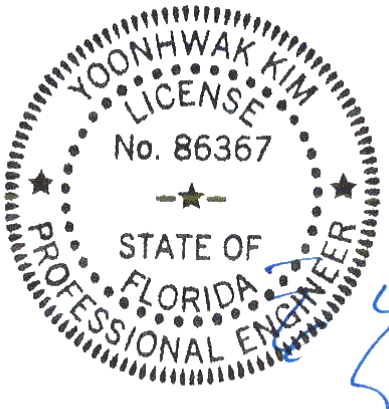
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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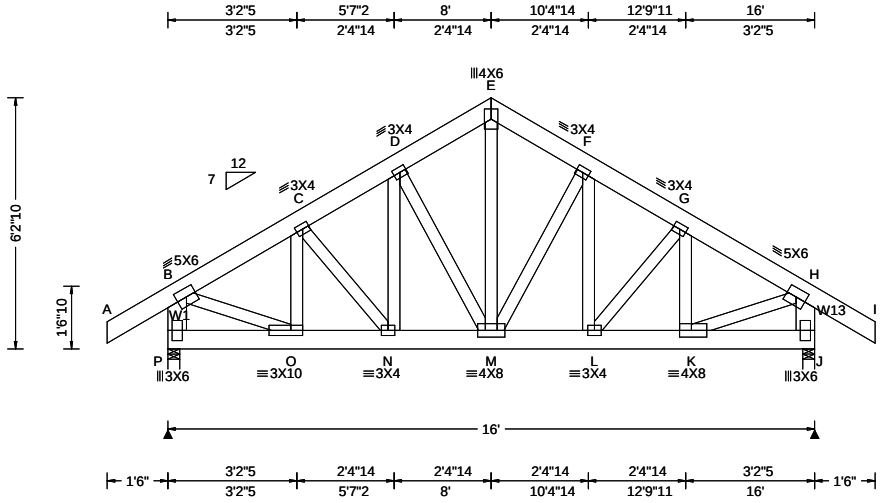
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409996 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** H02	Cust: R 215 JRef:1X3f2150001 T14 DrwNo: 063.21.1322.36227 / YK 03/04/2021	

2 Complete Trusses Required



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.031	L	999	360
VERT(CL): 0.060	L	999	240
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.022	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.076
Max BC CSI: 0.193
Max Web CSI: 0.833

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	4848	/-	/-	/-	/364	/-
J	5067	/-	/-	/-	/365	/-

Wind reactions based on MWFRS
P Brg Width = 3.5 Min Req = 2.0
J Brg Width = 3.5 Min Req = 2.1
Bearings P & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	172	- 2445	E - F	138	- 1959
C - D	164	- 2335	F - G	165	- 2365
D - E	138	- 1959	G - H	174	- 2540

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	2066	- 140	M - L	1994	- 134
N - M	1969	- 134	L - K	2141	- 141

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - P	168	- 2044	M - F	38	- 560
B - O	2107	- 142	F - L	711	- 24
N - D	654	- 24	K - H	2186	- 143
D - M	38	- 508	H - J	170	- 2120
E - M	1712	- 94			

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W1,W13 2x6 SP 2400f-2.0E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

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

TC: From	63 plf at	-1.50 to	63 plf at	17.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	16.00
BC: From	5 plf at	16.00 to	5 plf at	17.50

BC: 1021 lb Conc. Load at 0.94, 2.94, 4.94, 6.94 8.94,10.94
BC: 1184 lb Conc. Load at 12.94
BC: 1231 lb Conc. Load at 14.94

Wind

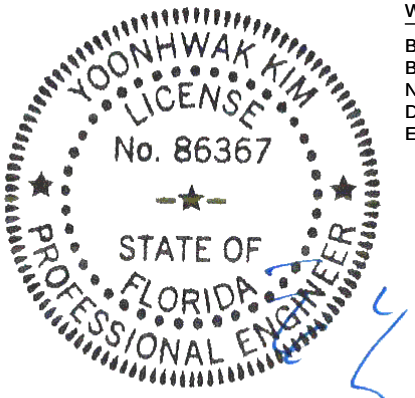
Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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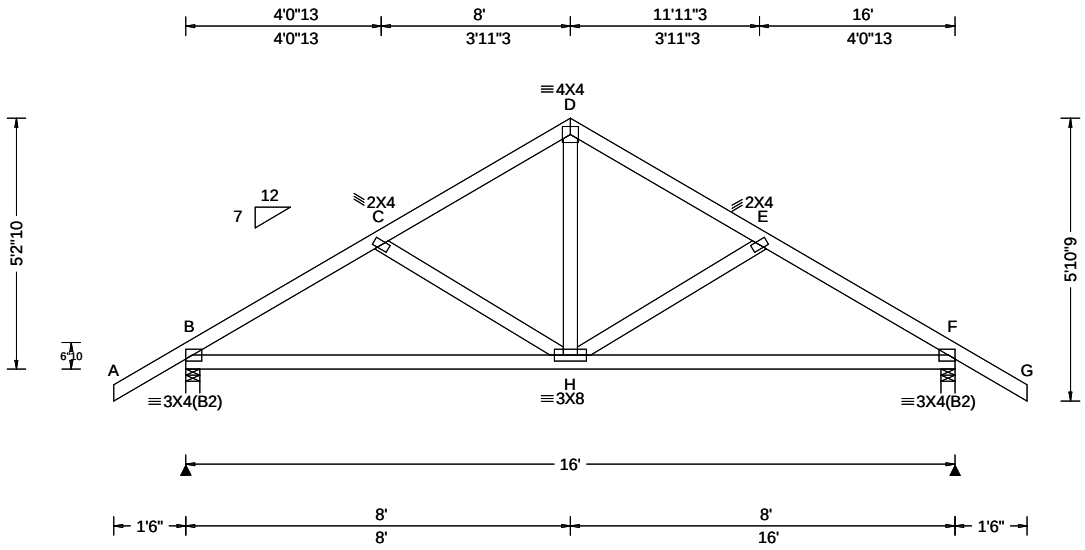
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409974 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** H03		Cust: R 215 JRef:1X3f2150001 T23 DrwNo: 063.21.1322.38100 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.026	H	999	360
VERT(CL): 0.053	H	999	240
HORZ(LL): 0.013	H	-	-
HORZ(TL): 0.027	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.316
Max BC CSI: 0.636
Max Web CSI: 0.164

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	767	/-	/-	/468	/133	/164
F	767	/-	/-	/468	/133	/-

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	190	- 916	D - E	154	- 697
C - D	154	- 697	E - F	190	- 916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	725	- 86	H - F	725	- 86

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - H	431	- 46

Lumber

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

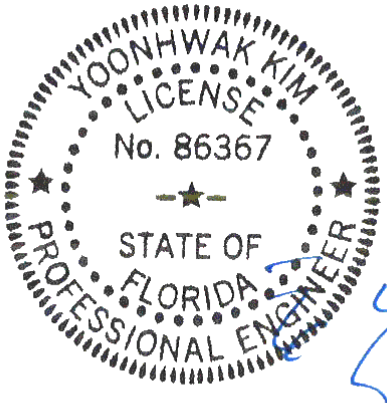
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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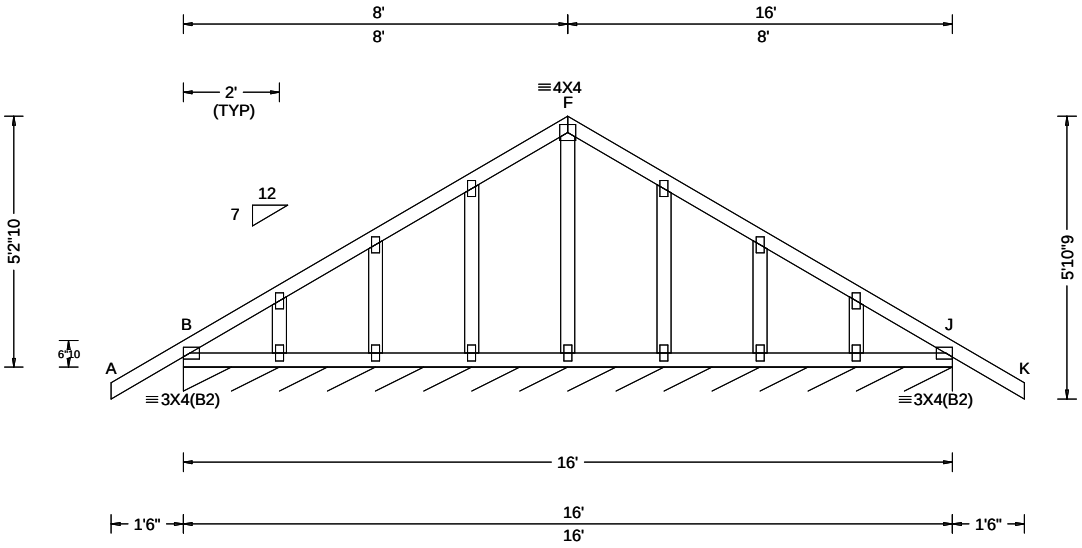
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409975 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** H04	Cust: R 215 JRef:1X3f2150001 T46 DrwNo: 063.21.1322.39800 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.001 F	999	360
VERT(CL):	0.001 F	999	240
HORZ(LL):	-0.002 D	-	-
HORZ(TL):	0.002 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.033
Max Web CSI: 0.067

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J*	96	/-	/-	/49	/17	/10

Wind reactions based on MWFRS
J Brg Width = 192 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

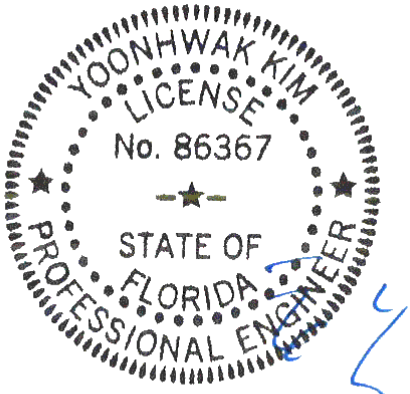
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 5-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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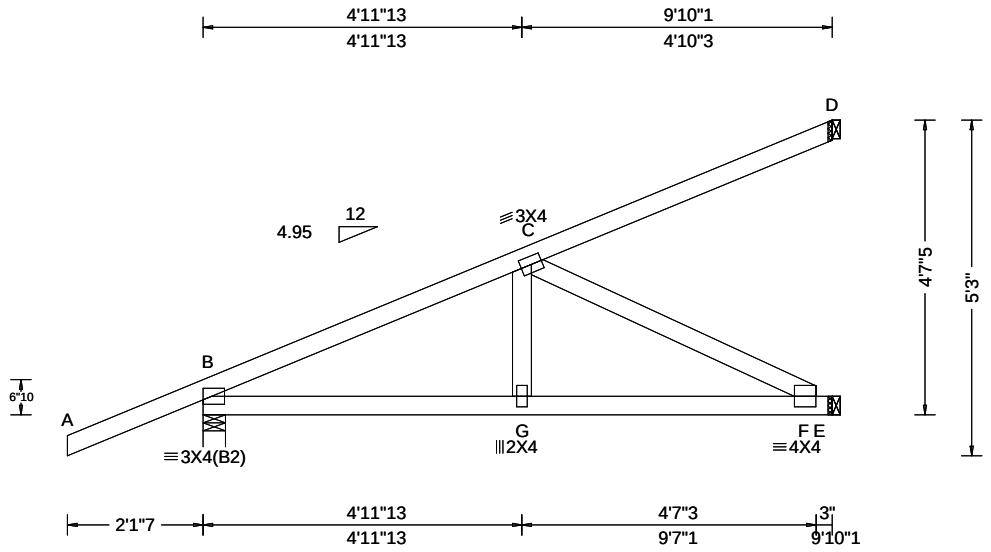
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409997 HIP_ FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** HJ1	Cust: R 215 JRef:1X3f2150001 T32 DrwNo: 063.21.1322.41713 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.026 G	999	360
VERT(CL):	0.051 G	999	240
HORZ(LL):	-0.008 D	-	-
HORZ(TL):	0.015 D	-	-

Creep Factor: 2.0
Max TC CSI: 0.704
Max BC CSI: 0.712
Max Web CSI: 0.346

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	367	/-	/-	/-	/186	/-
E	347	/-	/-	/-	/81	/-
D	93	/-	/-	/-	/40	/-

Wind reactions based on MWFRS
B Brg Width = 4.2 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	229	-629

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	582	-186	G - F	573	-187

Maximum Web Forces Per Ply (lbs)

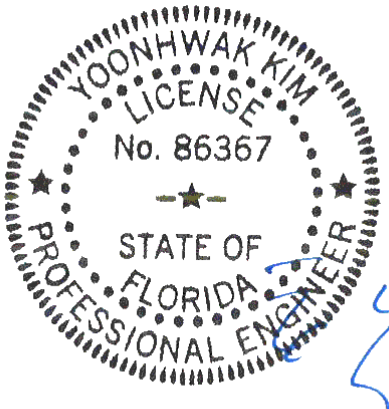
Webs	Tens.	Comp.
C - F	211	-645

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

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 0 plf at -2.12 to 62 plf at 0.00
TC: From 2 plf at 0.00 to 2 plf at 9.84
BC: From 0 plf at -2.12 to 4 plf at 0.00
BC: From 2 plf at 0.00 to 2 plf at 9.84
TC: -41 lb Conc. Load at 1.38
TC: 134 lb Conc. Load at 4.21
TC: 270 lb Conc. Load at 7.03
BC: 23 lb Conc. Load at 1.38
BC: 108 lb Conc. Load at 4.21
BC: 187 lb Conc. Load at 7.03

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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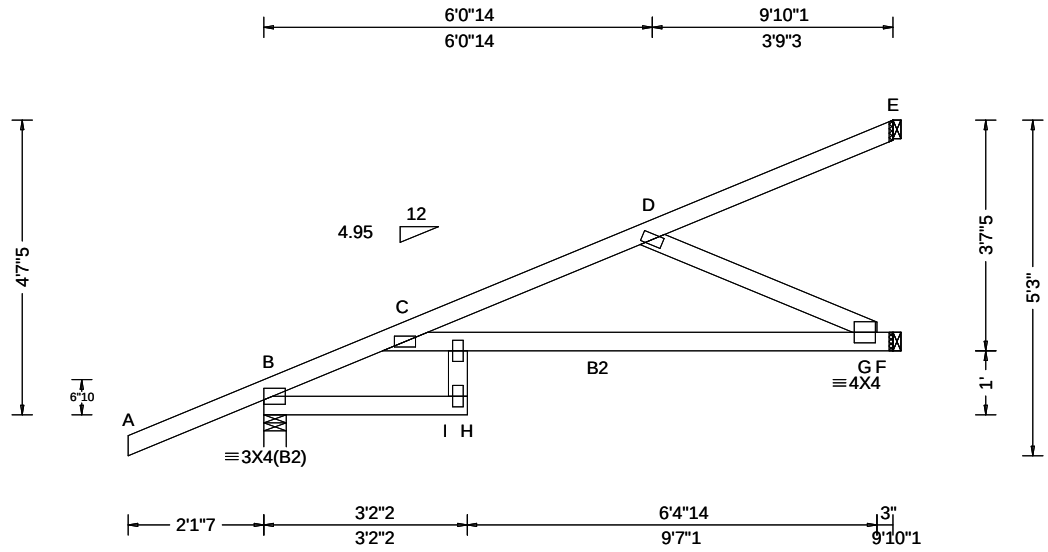
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409998 HIP_ FROM:	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** HJ2	Cust: R 215 JRef:1X3f2150001 T61 DrwNo: 063.21.1322.43317 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.231 H	507	360
VERT(CL):	0.402 H	291	240
HORZ(LL):	0.087 I	-	-
HORZ(TL):	0.170 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.940
Max BC CSI: 0.461
Max Web CSI: 0.315

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	367	/-	/-	/-	/184	/-
F	397	/-	/-	/-	/109	/-
E	19	/-	/-	/-	/9	/-

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.
C - D	270	- 598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - I	554	- 202	I - G	589	- 262

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - G	290	- 645

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

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

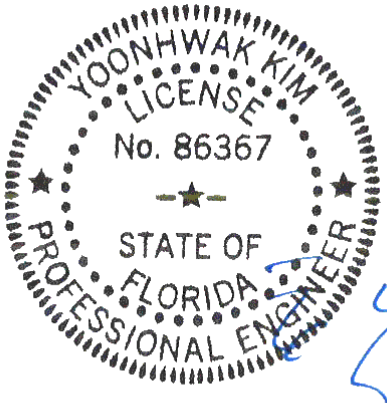
TC: From	0 plf at	-2.12 to	62 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.84
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.84

TC: -41 lb Conc. Load at 1.38
TC: 137 lb Conc. Load at 4.21
TC: 270 lb Conc. Load at 7.03
BC: 23 lb Conc. Load at 1.38
BC: 86 lb Conc. Load at 4.21
BC: 164 lb Conc. Load at 7.03

Plating Notes
All plates are 2X4 except as noted.

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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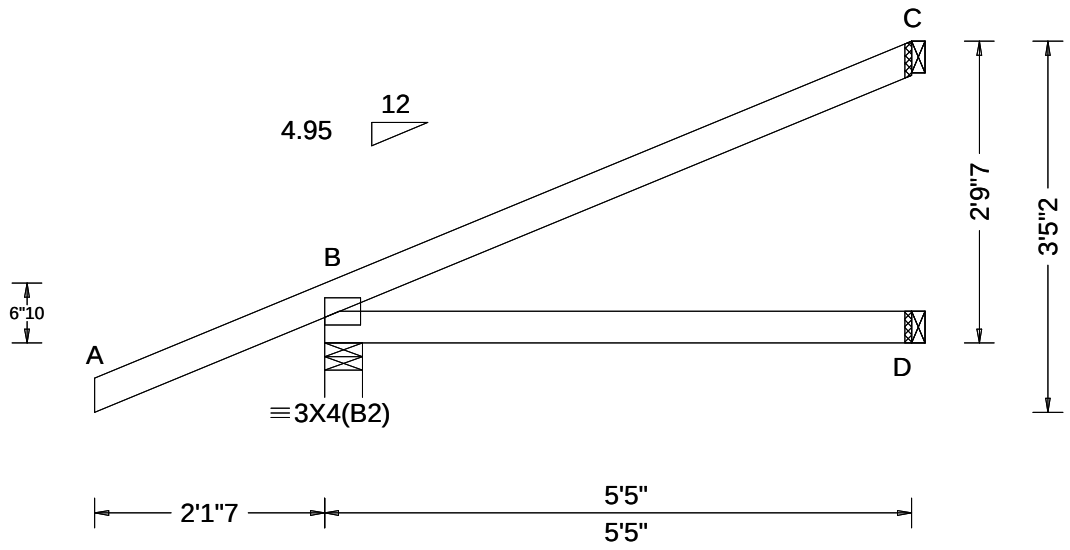
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409999 HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** HJ3	Cust: R 215 JRef:1X3f2150001 T37 DrwNo: 063.21.1322.45290 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.160 Max BC CSI: 0.309 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	236	/-	/-	/-	/45	/-
D	100	/-	/-	/3	/-	/-
C	53	/-	/-	/-	/12	/-

Wind reactions based on MWFRS
B Brg Width = 4.2 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Special Loads

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

TC: From	0 plf at	-2.12 to	62 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	5.42
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	5.42

TC: 36 lb Conc. Load at 2.57
BC: 62 lb Conc. Load at 2.57

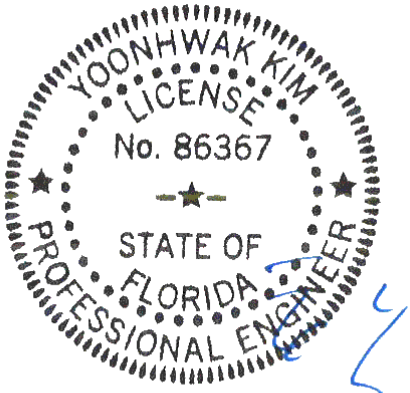
Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-9-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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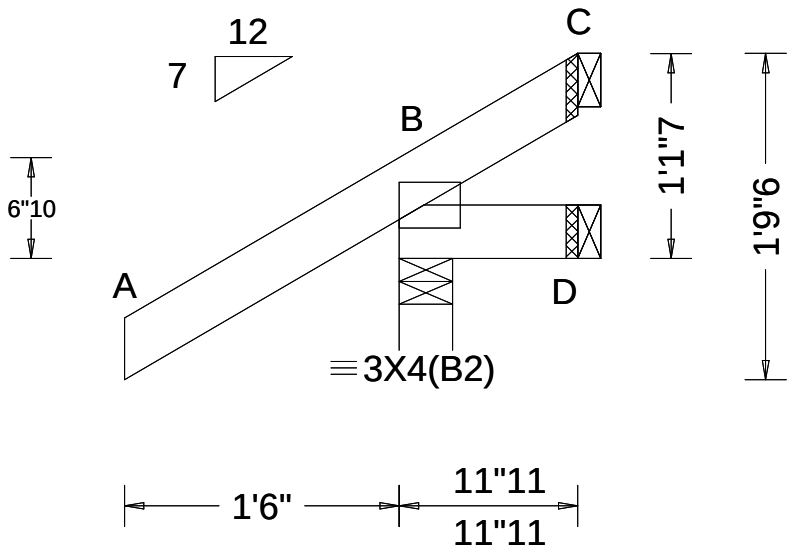
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409976 JACK FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J1	Cust: R 215 JRef:1X3f2150001 T26 DrwNo: 063.21.1322.46050 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.027 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	237	/-	/-	/186	/53	/44
D	12	/-6	/-	/11	/6	/-
C	-	/-48	/-	/32	/48	/-

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;

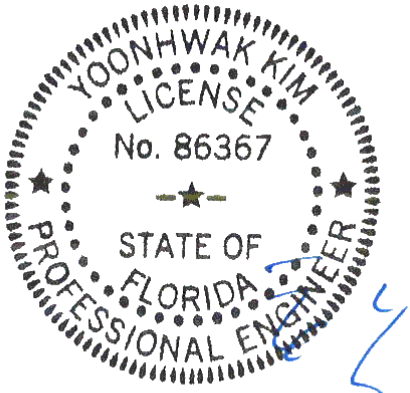
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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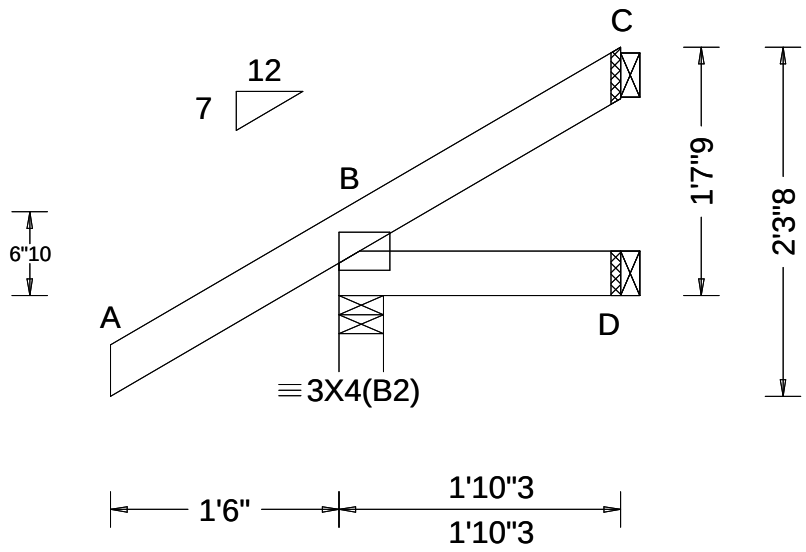
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409977 JACK FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J1A	Cust: R 215 JRef:1X3f2150001 T42 DrwNo: 063.21.1322.46943 / YK 03/04/2021



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

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

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

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

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(CL): NA
HORZ(LL): -0.001 C - -
HORZ(TL): 0.002 C - -
Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.029
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

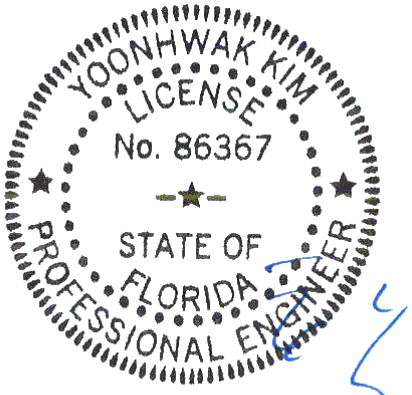
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	228	/-	/-	/170	/36	/62
D	31	/-	/-	/20	/-	/-
C	18	/-	/-	/27	/22	/-

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.
Wind loading based on both gable and hip roof types.

Additional Notes
The overall height of this truss excluding overhang is 1-7-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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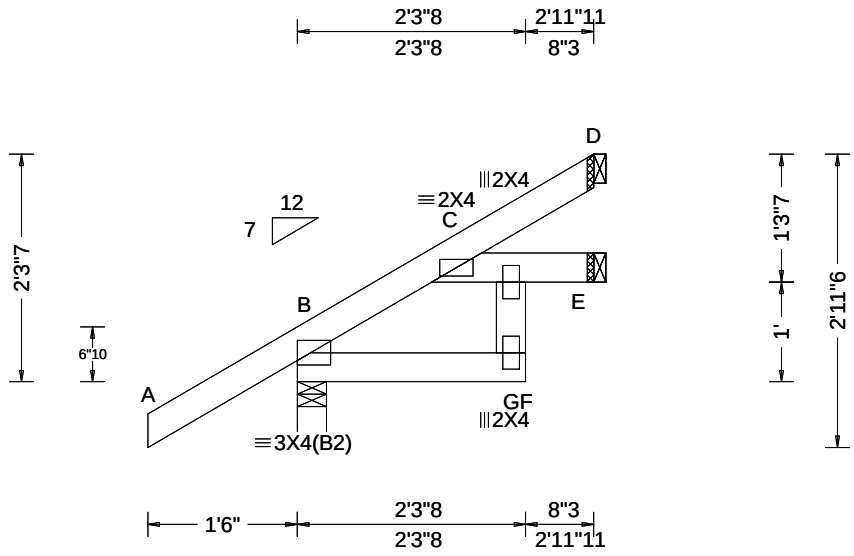
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409978 JACK FROM:	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J2	Cust: R 215 JRef:1X3f2150001 T3 DrwNo: 063.21.1322.47820 / YK 03/04/2021	



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	G	999	360
VERT(CL): 0.008	G	999	240
HORZ(LL): -0.003	G	-	-
HORZ(TL): 0.005	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.047
Max Web CSI: 0.032

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	257	/-	/-	/184	/31	/85
E	43	/-	/-	/28	/-	/-
D	69	/-	/-	/44	/38	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

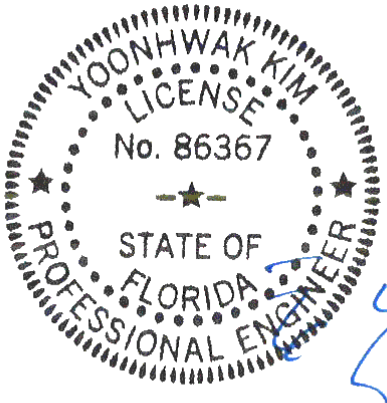
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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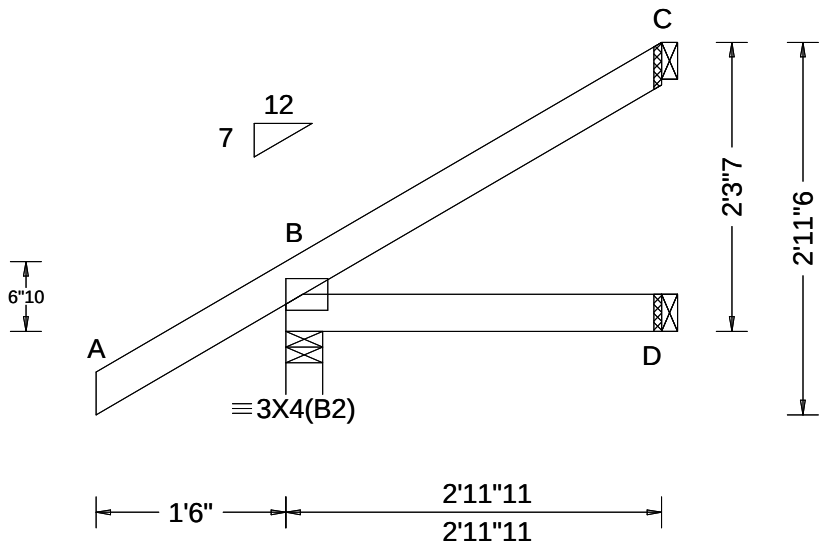
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409979 JACK FROM: CDM	Ply: 1 Qty: 14	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J3	Cust: R 215 JRef:1X3f2150001 T25 DrwNo: 063.21.1322.48460 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.088 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	257	/-	/-	/184	/31	/85
D	54	/-	/-	/31	/-	/-
C	67	/-	/-	/40	/44	/-

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;

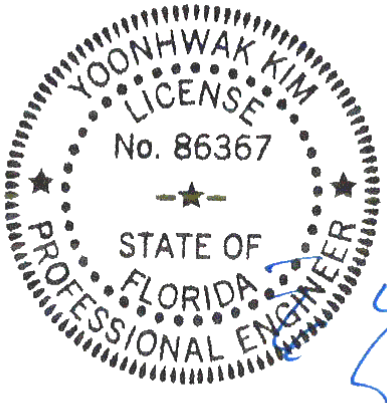
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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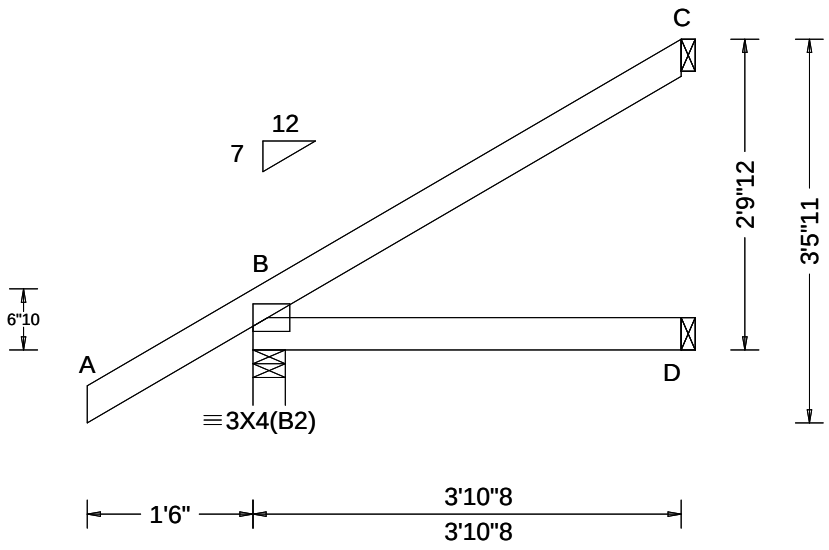
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409980 EJAC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J3A	Cust: R 215 JRef:1X3f2150001 T45 DrwNo: 063.21.1322.49313 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	NA		
VERT(CL):	NA		
HORZ(LL):	-0.001 C	-	-
HORZ(TL):	0.002 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.199
Max BC CSI: 0.160
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

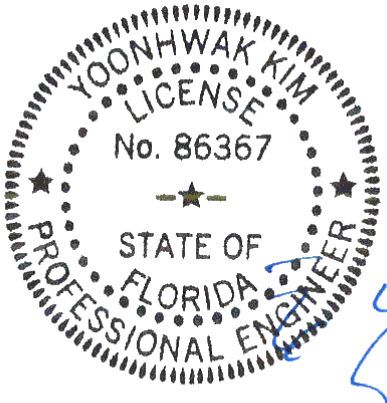
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	287	/-	/-	/202	/30	/103
D	72	/-	/-	/40	/-	/-
C	99	/-	/-	/62	/60	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

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

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

Additional Notes
The overall height of this truss excluding overhang is 2-9-12.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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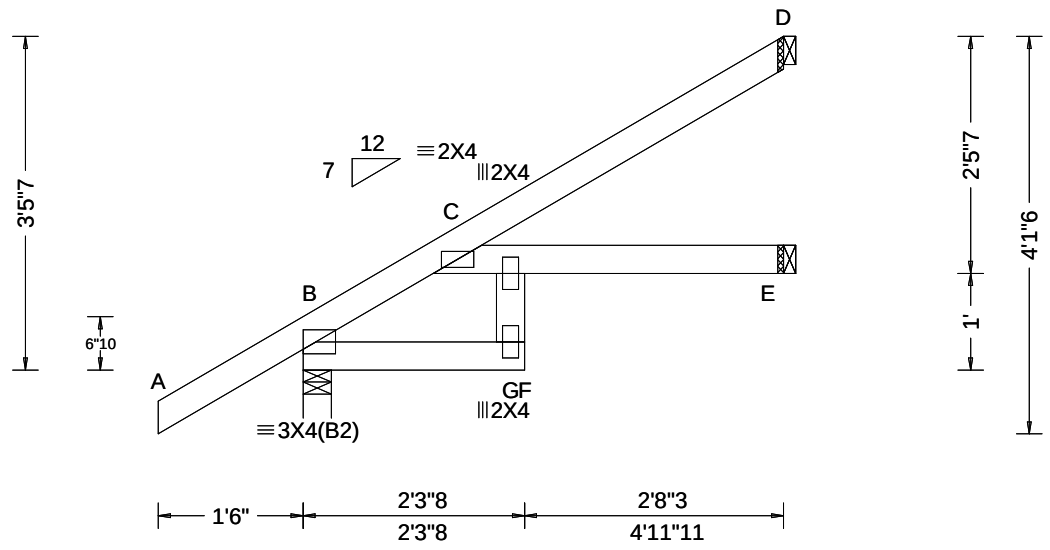
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409981 JACK FROM:	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J4		Cust: R 215 JRef:1X3f2150001 T59 DrwNo: 063.21.1322.50140 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.040 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.079 F 741 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 G - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.049 G - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.367
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.207
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.138
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	328	/-	/-	/226	/30	/126
E	82	/-	/-	/47	/-	/-
D	135	/-	/-	/90	/70	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

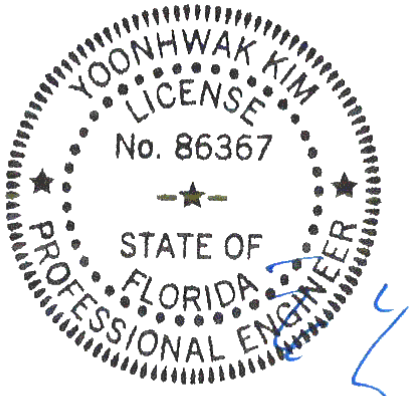
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-5-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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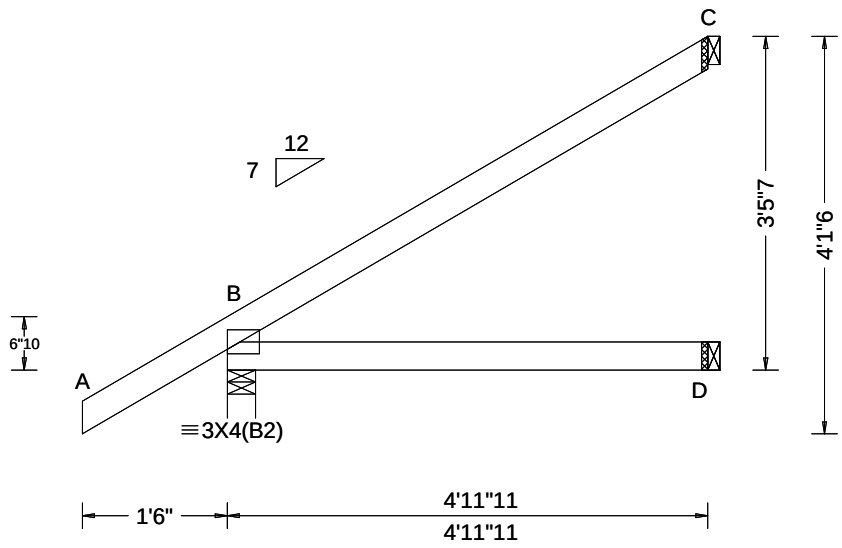
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409982 JACK FROM: CDM	Ply: 1 Qty: 14	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J5		Cust: R 215 JRef:1X3f2150001 T24 DrwNo: 063.21.1322.50890 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.003 C - - HORZ(TL): 0.006 D - - Creep Factor: 2.0 Max TC CSI: 0.351 Max BC CSI: 0.271 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	328	/-	/-	/226	/30	/126
D	94	/-	/-	/51	/-	/-
C	135	/-	/-	/87	/78	/-

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;

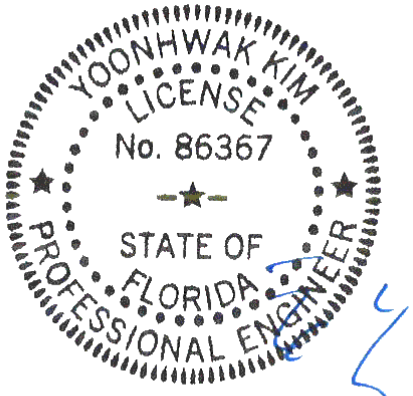
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-5-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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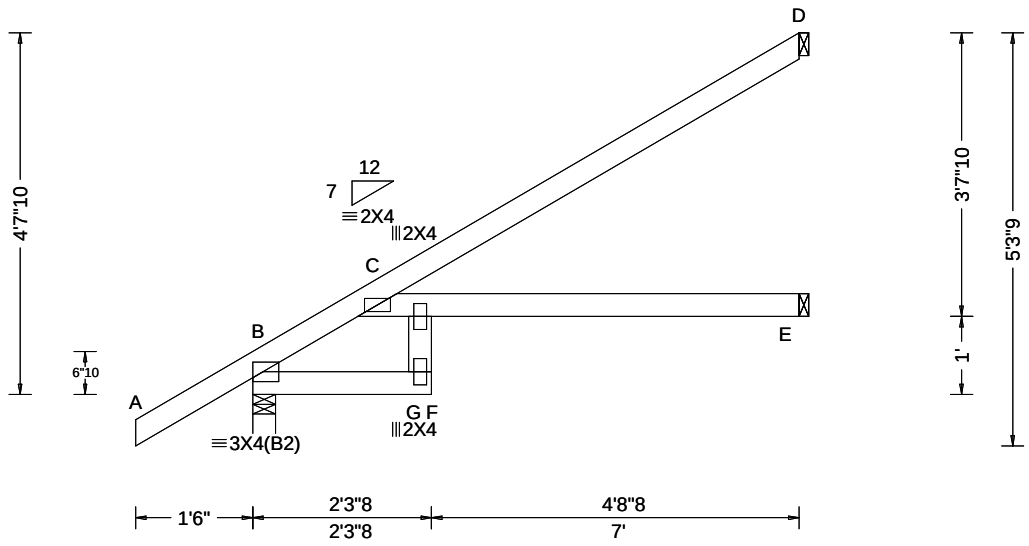
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409983 EJAC FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J6	Cust: R 215 JRef:1X3f2150001 T35 DrwNo: 063.21.1322.51590 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.137	F	605	360
VERT(CL): 0.276	F	301	240
HORZ(LL): 0.078	G	-	-
HORZ(TL): 0.157	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.784
Max BC CSI: 0.465
Max Web CSI: 0.313

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	407	/-	/-	/274	/30	/168
E	123	/-	/-	/72	/-	/-
D	196	/-	/-	/130	/102	/-

Wind reactions based on MWFRS
B Brg Width = 3.5 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

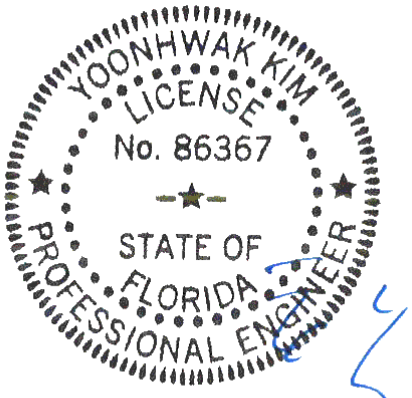
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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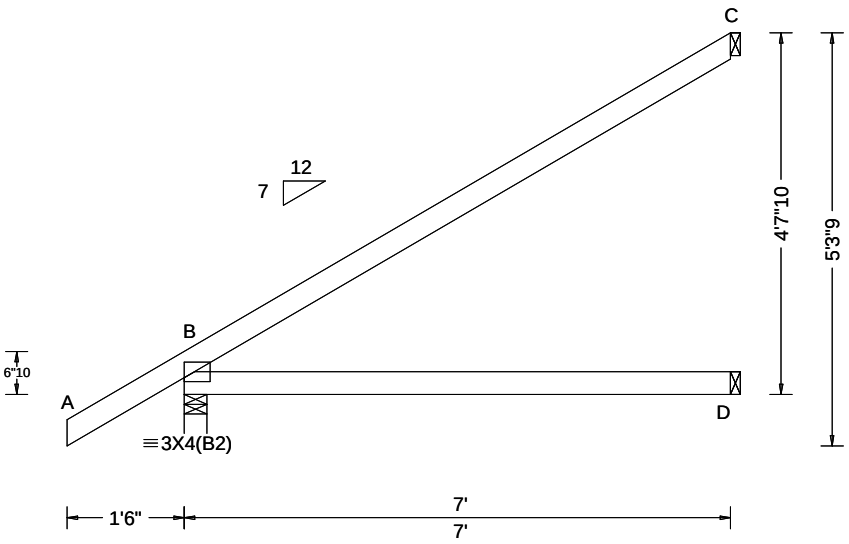
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409984 EJAC FROM: CDM	Ply: 1 Qty: 46	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J7	Cust: R 215 JRef:1X3f2150001 T27 DrwNo: 063.21.1322.52307 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.011 D - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.022 D - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.795
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.550
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	407	/-	/-	/274	/30	/168
D	133	/-	/-	/73	/-	/-
C	197	/-	/-	/129	/111	/-

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;

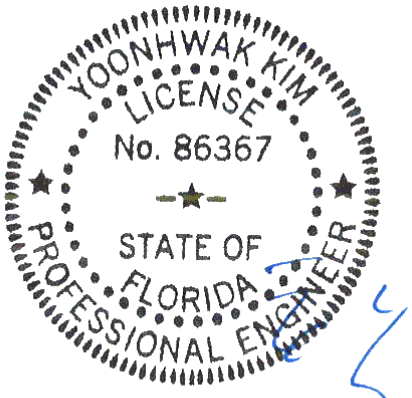
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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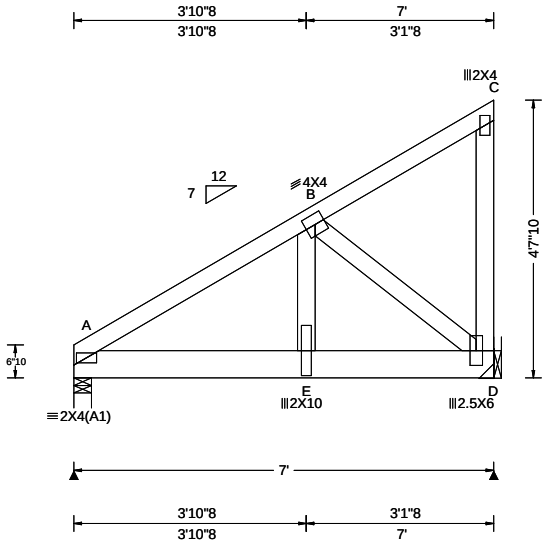
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410000 MONO FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J7A	Cust: R 215 JRef:1X3f2150001 T31 DrwNo: 063.21.1322.53000 / YK 03/04/2021	



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

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	E	999	360
VERT(CL): 0.019	E	999	240
HORZ(LL): -0.004	C	-	-
HORZ(TL): 0.008	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.164
Max BC CSI: 0.204
Max Web CSI: 0.365

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	894	/-	/-	/-	/168	/-
D	1094	/-	/-	/-	/199	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.5
D Brg Width = - Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	205	- 1070

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	877	- 160	E - D	848	- 156

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	958	- 127	B - D	200	- 1089

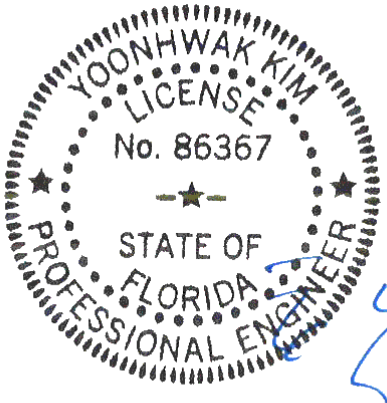
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
BC: 492 lb Conc. Load at 2.06, 4.06, 6.06

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

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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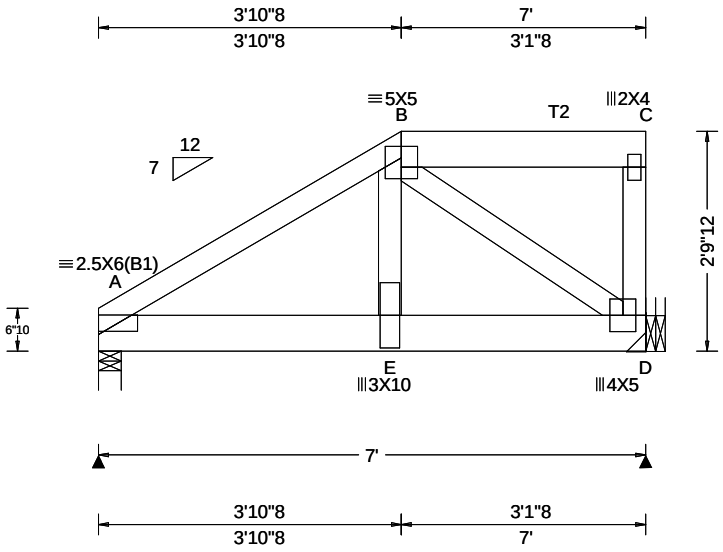
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 410001 HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** J7B	Cust: R 215 JRef:1X3f2150001 T63 DrwNo: 063.21.1322.54230 / YK 03/04/2021	



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

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

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.017	E	999	360
VERT(CL): 0.035	E	999	240
HORZ(LL): 0.002	D	-	-
HORZ(TL): 0.005	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.253
Max BC CSI: 0.331
Max Web CSI: 0.690

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	1918	/-	/-	/-	/102	/-
D	1611	/-	/-	/-	/112	/-

Wind reactions based on MWFRS
A Brg Width = 3.5 Min Req = 1.6
D Brg Width = - Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	120	-1983

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	1664	-83	E - D	1554	-85

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
E - B	1813	0	B - D	106	-1945

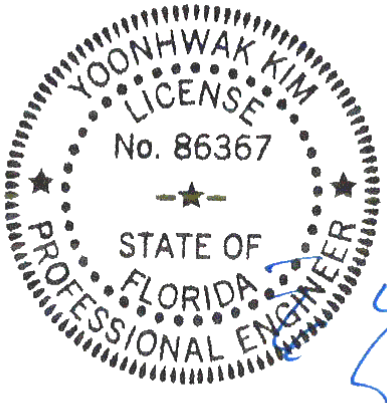
Lumber
Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 63 plf at 0.00 to 63 plf at 3.87
TC: From 32 plf at 3.87 to 32 plf at 7.00
BC: From 10 plf at 0.00 to 10 plf at 7.00
TC: 53 lb Conc. Load at 3.87
TC: 99 lb Conc. Load at 3.94, 5.94
BC: 876 lb Conc. Load at 1.06
BC: 872 lb Conc. Load at 3.06, 5.06
BC: 100 lb Conc. Load at 3.87
BC: 72 lb Conc. Load at 3.94, 5.94

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

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

Additional Notes
The overall height of this truss excluding overhang is 2-9-12.
WIND LOAD CASE MODIFIED!



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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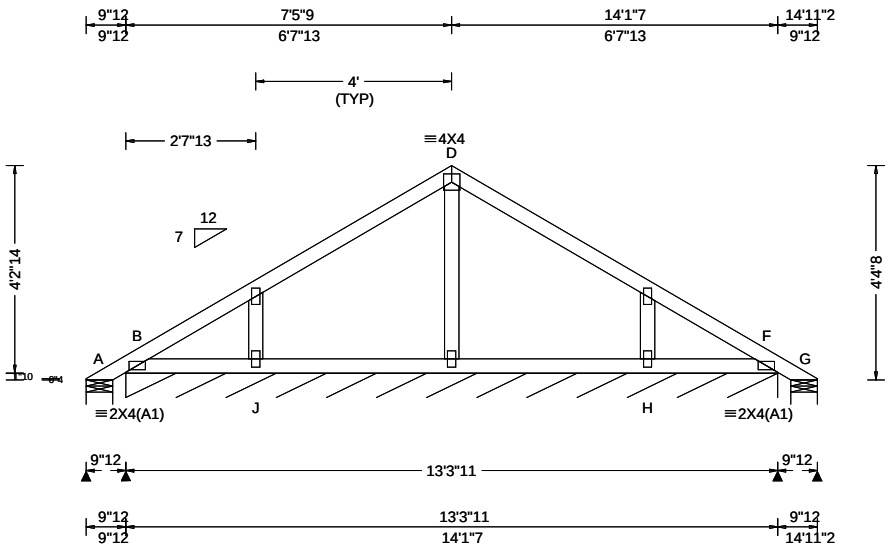
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409985 GABL FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** P01		Cust: R 215 JRef:1X3f2150001 T19 DrwNo: 063.21.1322.56050 / YK 03/04/2021	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 E - -
NCBCLL: 10.00	Mean Height: 19.50 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.205
Load Duration: 1.25	BCDL: 2.0 psf	TPI Std: 2014	Max BC CSI: 0.066
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.060
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	20	/-	/-	/60	/56	/115
B*	69	/-	/-	/49	/27	/-
G	20	/-	/-	/8	/9	/-
J		/-167				
H		/-167				

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 159 Min Req = -
G Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & G 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 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

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

Wind

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

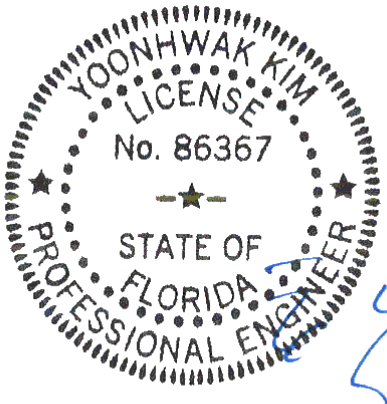
Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 13-8-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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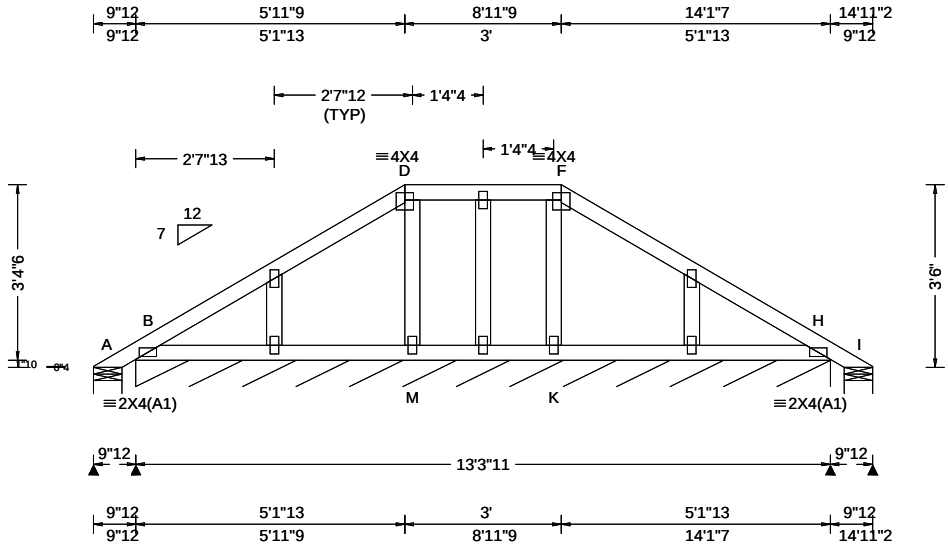
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409986 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** P02	Cust: R 215 JRef:1X3f2150001 T17 DrwNo: 063.21.1322.58147 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 19.06 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	N	999	360
VERT(CL): 0.001	N	999	240
HORZ(LL): 0.001	G	-	-
HORZ(TL): 0.001	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.080
Max BC CSI: 0.034
Max Web CSI: 0.033

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4	/-	/-	/52	/47	/93
B*	72	/-	/-	/51	/8	/-
I	4	/-	/-	/5	/0	/-

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 159 Min Req = -
I Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & I 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 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

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

Wind

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

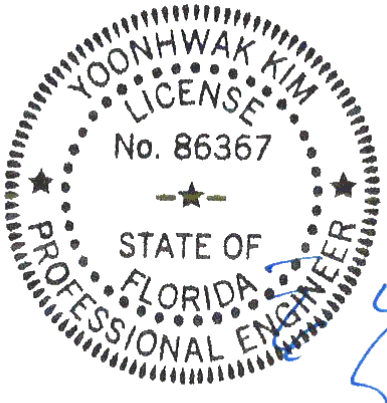
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 12-9-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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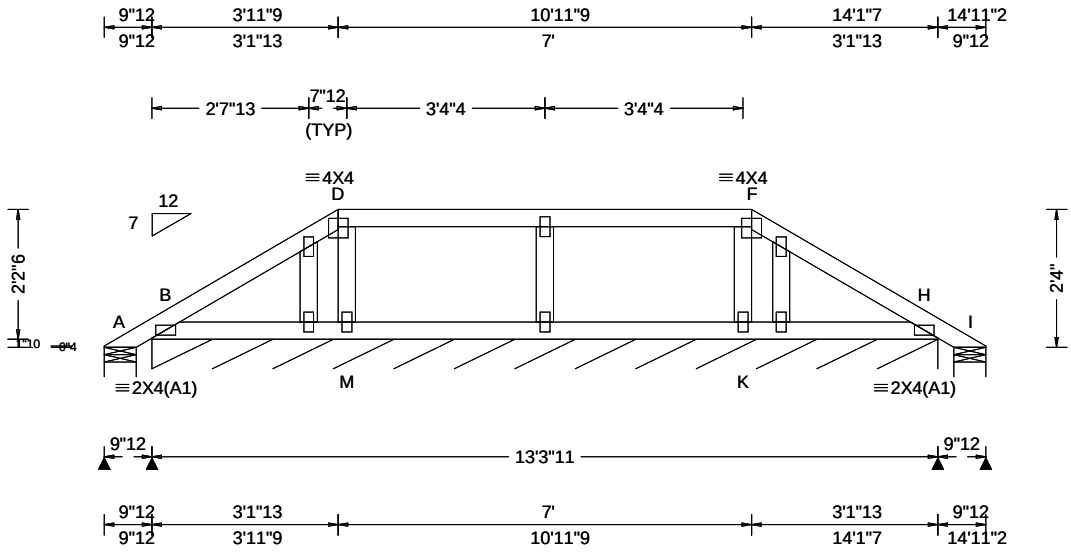
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409987 GABL FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** P03	Cust: R 215 JRef:1X3f2150001 T15 DrwNo: 063.21.1322.59613 / YK 03/04/2021		



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.48 ft
TCDL: 5.0 psf
BCDL: 2.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	E	999	360
VERT(CL): 0.001	E	999	240
HORZ(LL): 0.000	J	-	-
HORZ(TL): 0.001	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.177
Max BC CSI: 0.045
Max Web CSI: 0.053

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	-	/-2	/-	/36	/33	/60
B*	73	/-	/-	/49	/9	/-
I	-	/-2	/-	/5	/3	/-

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 159 Min Req = -
I Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & I 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 2X4 except as noted.

Loading

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

Purlins

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

Wind

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

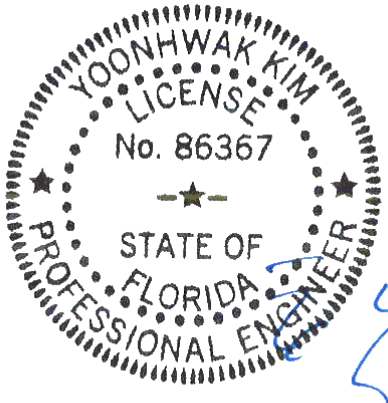
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-7-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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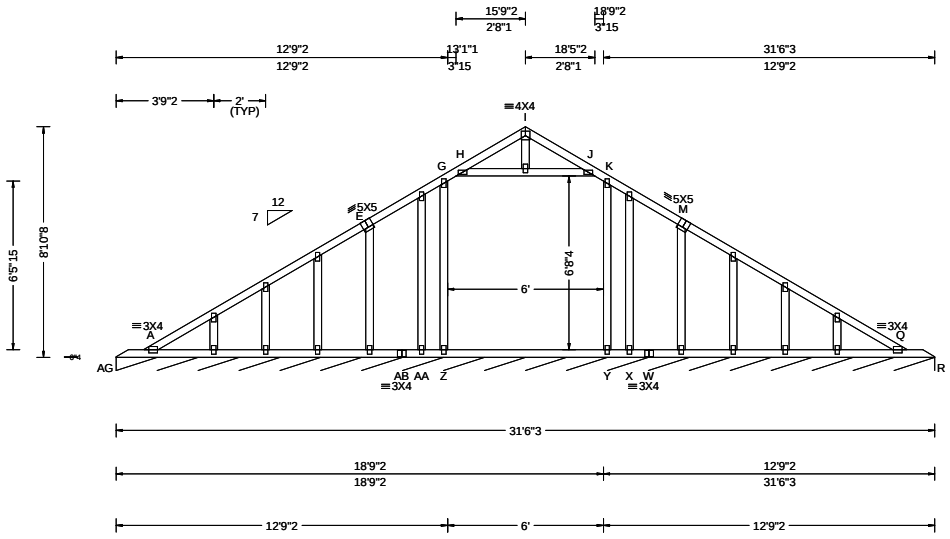
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409988 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V1		Cust: R 215 JRef:1X3f2150001 T47 DrwNo: 063.21.1323.00920 / YK 03/04/2021	



Loading Criteria (psf)

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

Wind Criteria

Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.13 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.15 ft
Loc. from endwall: not in 6.63 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	I	999	360
VERT(CL): 0.033	I	999	240
HORZ(LL): 0.008	L	-	-
HORZ(TL): 0.017	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.295
Max BC CSI: 0.411
Max Web CSI: 0.395

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R*	134	/-	/-	/54	/24	/11
AA		/-128				
X		/-128				

Wind reactions based on MWFRS
R Brg Width = 378 Min Req = -
Bearing AG 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.
A - E	160	-451	I - J	103	-515
E - G	251	-414	J - K	260	-488
G - H	260	-488	K - M	251	-414
H - I	103	-515	M - Q	128	-451

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - Z	55	-441	Y - K	32	-441

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind

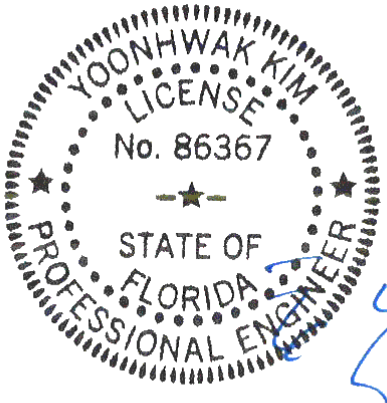
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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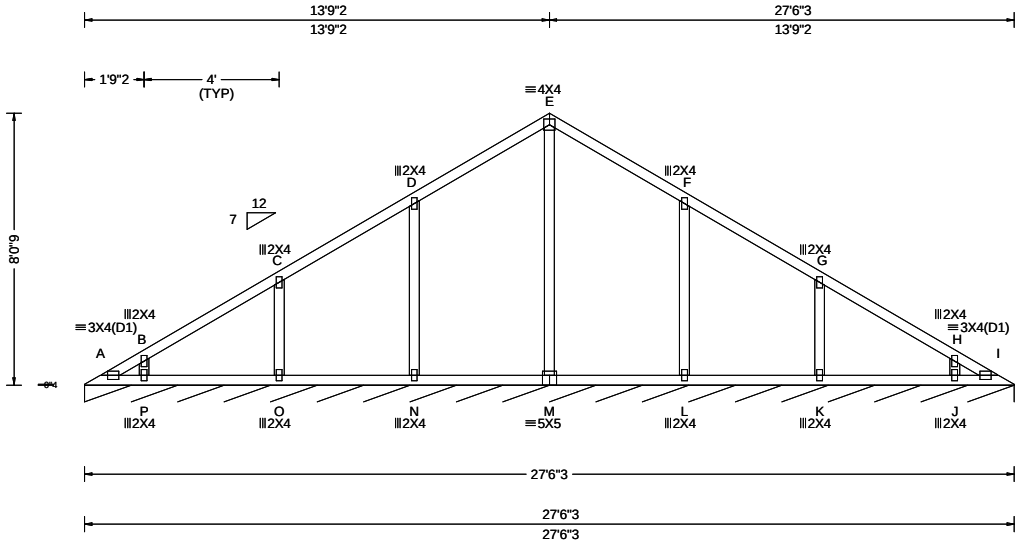
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409989 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V2	Cust: R 215 JRef:1X3f2150001 T49 DrwNo: 063.21.1323.01633 / YK 03/04/2021



Loading Criteria (psf)

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

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.89 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	F	999	360
VERT(CL): 0.003	F	999	240
HORZ(LL): -0.002	D	-	-
HORZ(TL): 0.004	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.206
Max BC CSI: 0.112
Max Web CSI: 0.211

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I*	83	/-	/-	/43	/13	/7

Wind reactions based on MWFRS
I Brg Width = 330 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

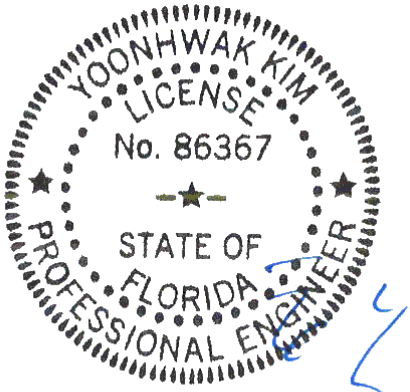
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 8-0-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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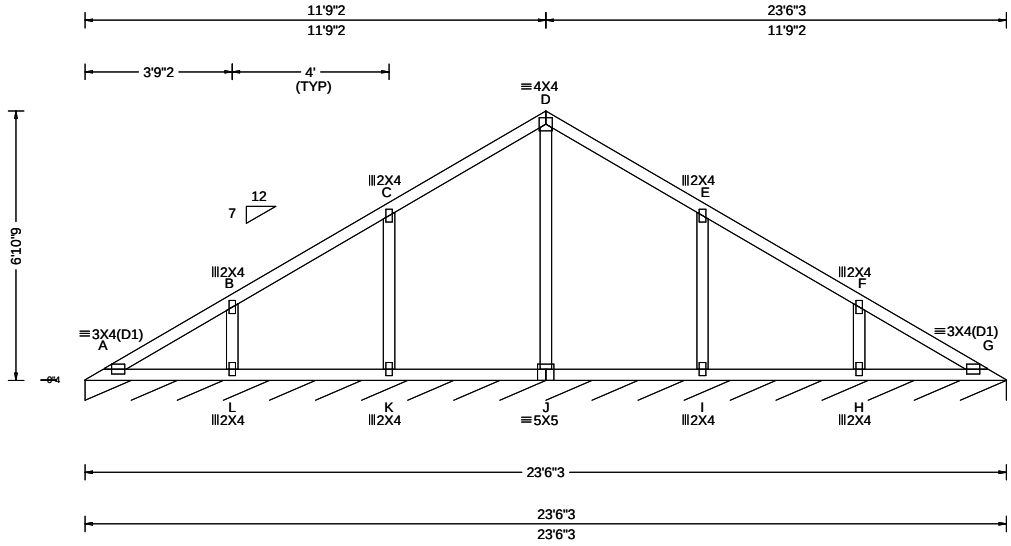
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409990 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V3	Cust: R 215 JRef:1X3f2150001 T50 DrwNo: 063.21.1323.02410 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.47 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 L 999 360 VERT(CL): 0.010 L 999 240 HORZ(LL): 0.002 L - - HORZ(TL): 0.003 L - - Creep Factor: 2.0 Max TC CSI: 0.207 Max BC CSI: 0.135 Max Web CSI: 0.191 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
G*	83	/-	/-	/43	/13	/7

Wind reactions based on MWFRS
G Brg Width = 282 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

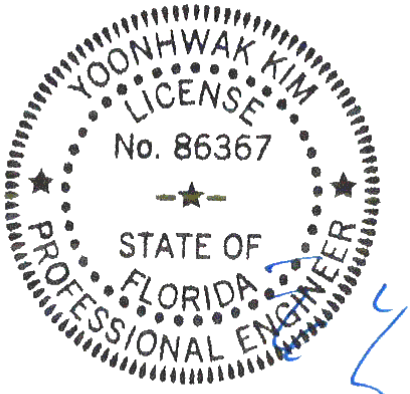
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 6-10-9.



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03/04/2021

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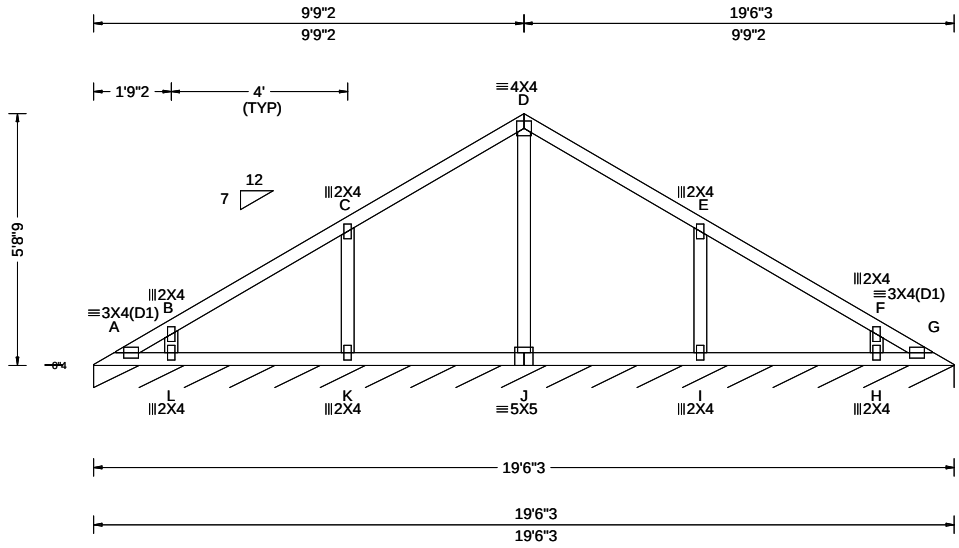
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409991 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V4	Cust: R 215 JRef:1X3f2150001 T51 DrwNo: 063.21.1323.03250 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.05 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 360 VERT(CL): 0.002 D 999 240 HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.215 Max BC CSI: 0.114 Max Web CSI: 0.103 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G*	83	/-	/-	/43	/12	/7

Wind reactions based on MWFRS
G Brg Width = 234 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

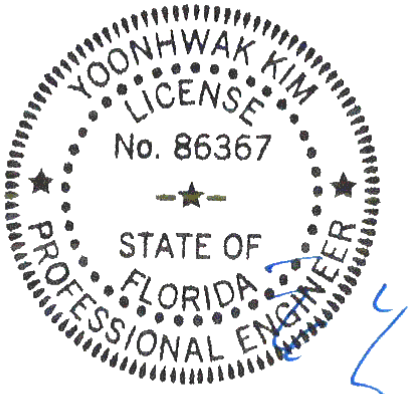
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 5-8-9.



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03/04/2021

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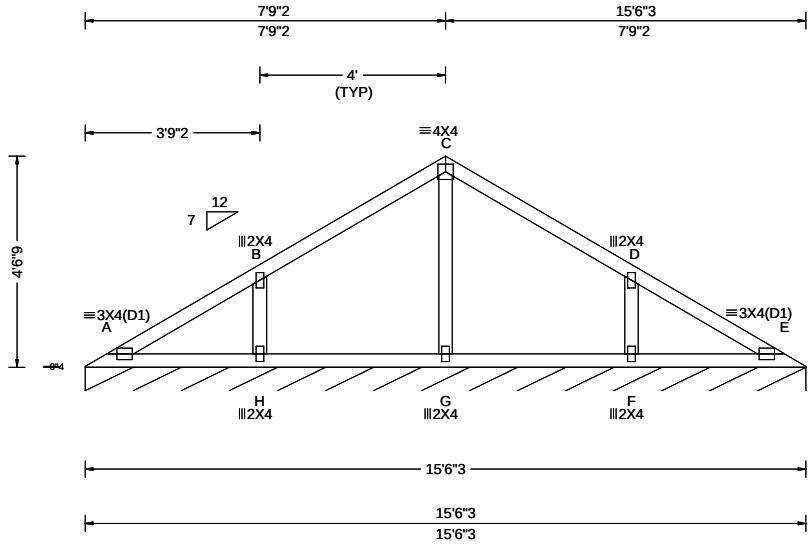
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409992 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V5	Cust: R 215 JRef:1X3f2150001 T52 DrwNo: 063.21.1323.04063 / YK 03/04/2021



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

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 18.64 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	H	999	360
VERT(CL): 0.008	H	999	240
HORZ(LL): -0.002	F	-	-
HORZ(TL): 0.003	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.284
Max BC CSI: 0.131
Max Web CSI: 0.088

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	83	/-	/-	/43	/12	/7

Wind reactions based on MWFRS
E Brg Width = 186 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

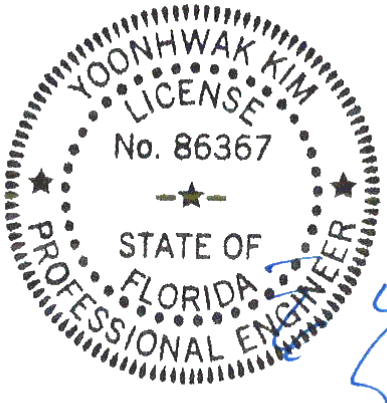
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 4-6-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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ALPINE
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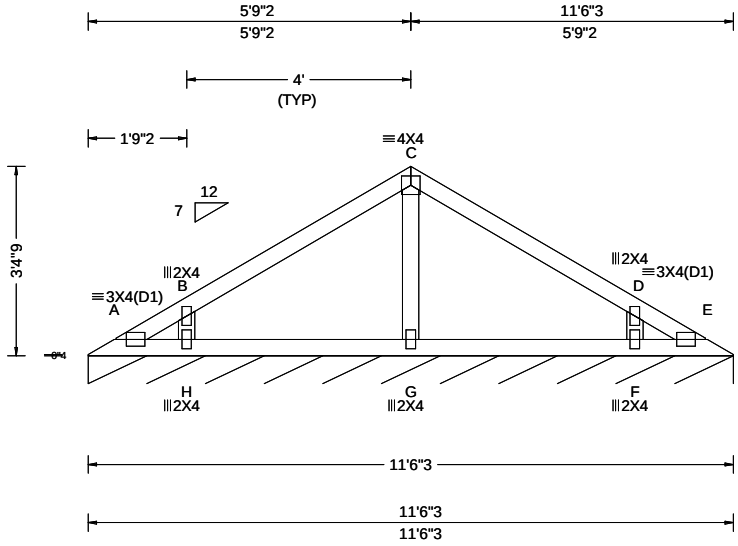
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 409993 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V6	Cust: R 215 JRef:1X3f2150001 T53 DrwNo: 063.21.1323.05080 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 C 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 C 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 H - -
NCBCLL: 10.00	Mean Height: 19.22 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.204
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.119
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.049
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	83	/-	/-	/42	/11	/7

Wind reactions based on MWFRS
E Brg Width = 138 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

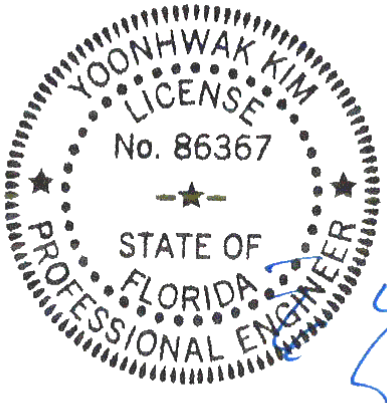
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 3-4-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
03/04/2021

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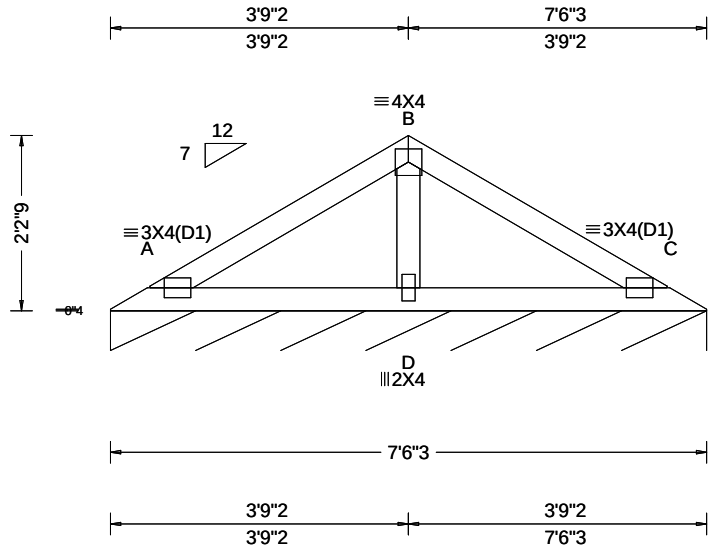
SEQN: 409994 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V7	Cust: R 215 JRef:1X3f2150001 T54 DrwNo: 063.21.1323.06040 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.80 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 D 999 360 VERT(CL): 0.011 D 999 240 HORZ(LL): -0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.186 Max BC CSI: 0.150 Max Web CSI: 0.065 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	83	/-	/-	/41	/10	/7

Wind reactions based on MWFRS
C Brg Width = 90.2 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

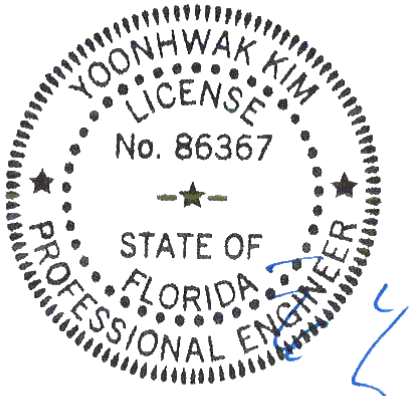
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 2-2-9.



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03/04/2021

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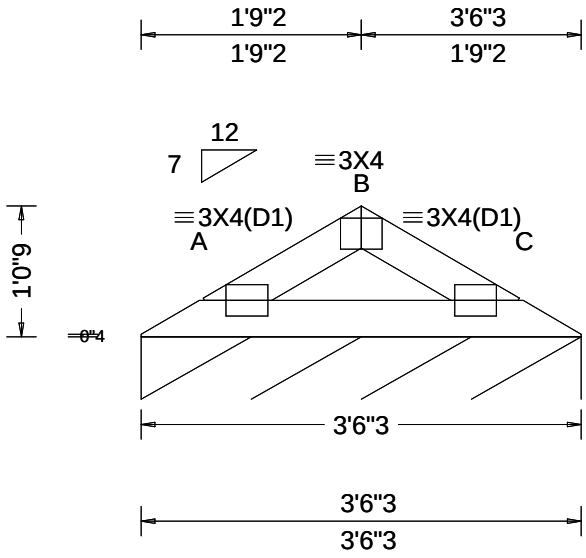
SEQN: 409995 VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 20-4565 Senn Res.- 52" Celiing fan in both Garages **Truss Label:** V8	Cust: R 215 JRef:1X3f2150001 T55 DrwNo: 063.21.1323.08690 / YK 03/04/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.39 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 999 360 VERT(CL): 0.005 999 240 HORZ(LL): -0.001 - - HORZ(TL): 0.002 - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.085 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	82	/-	/-	/37	/-	/5

Wind reactions based on MWFRS
C Brg Width = 42.2 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

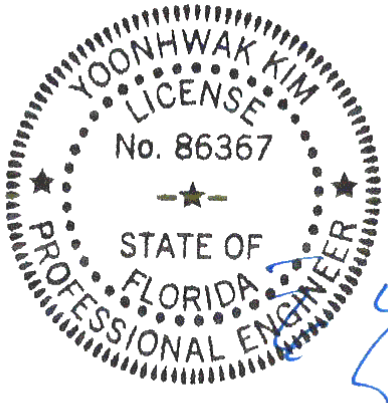
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 1-0-9.



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03/04/2021

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CLR Reinforcing Member Substitution

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

Notes:

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

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

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

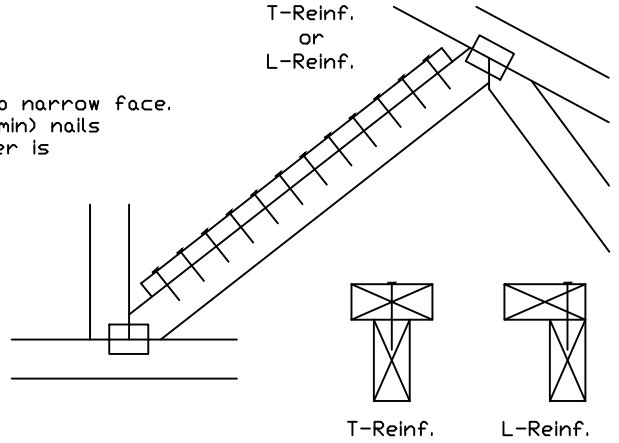
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

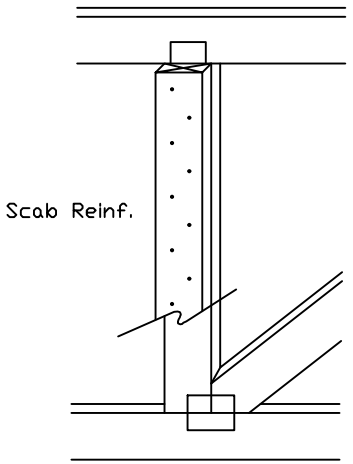
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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Earth City, MO 63045

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TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

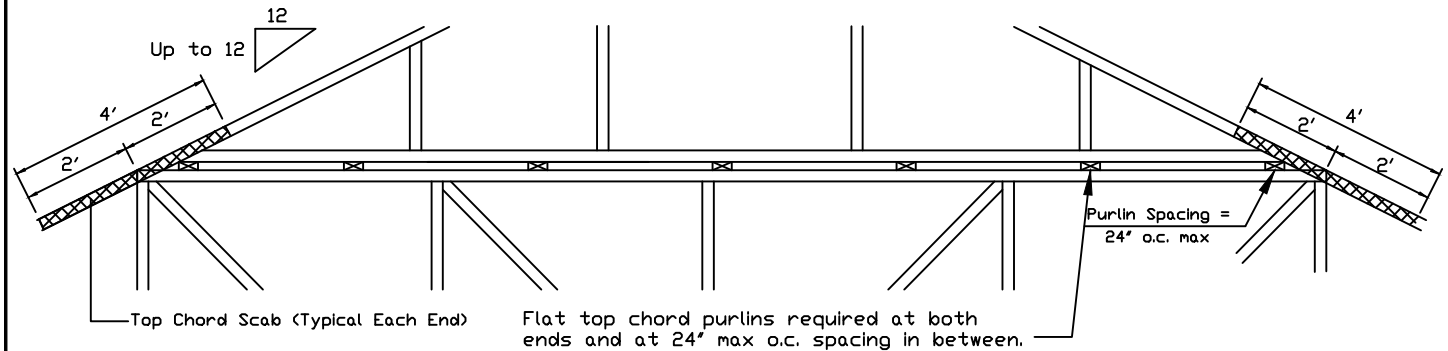
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

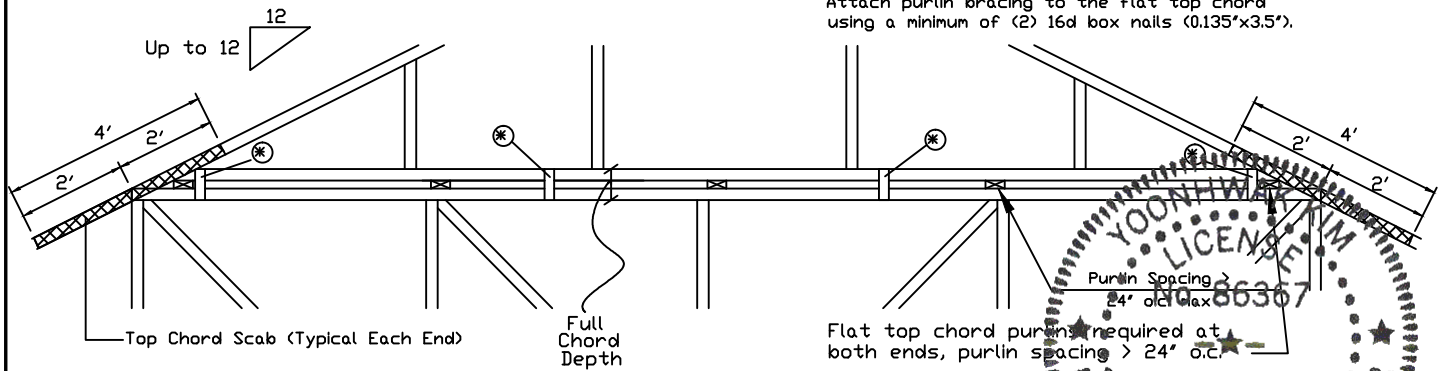
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24" o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:
Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.
APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.
2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
28PB Wave Piggyback Plate One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118
SPACING	24.0"

1/8/04/2021 PE REG# 278, Yoonhwak Kim, FL PE #86367

Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir

#1 / #2	Standard
#3	Stud

Hem-Fir

#2	Stud
#3	Standard

Douglas Fir-Larch

#3
Stud
Standard

Southern Pine***

#3
Stud
Standard

Group B:

Hem-Fir

#1 & Btr
#1

Douglas Fir-Larch

#1
#2

Southern Pine***

#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

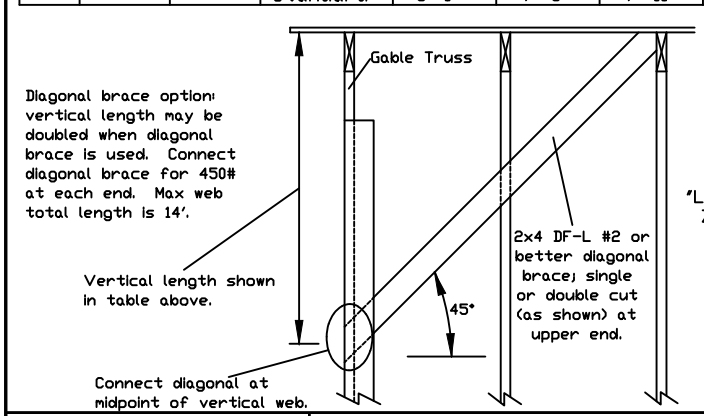
"L" bracing must be a minimum of 80% of web member length.

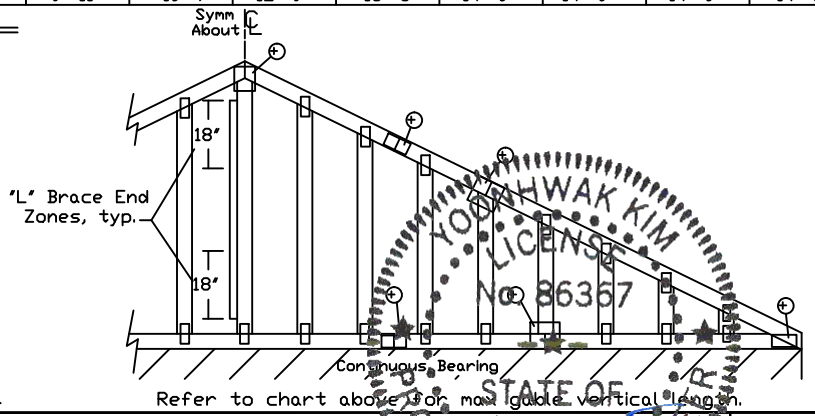
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





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ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

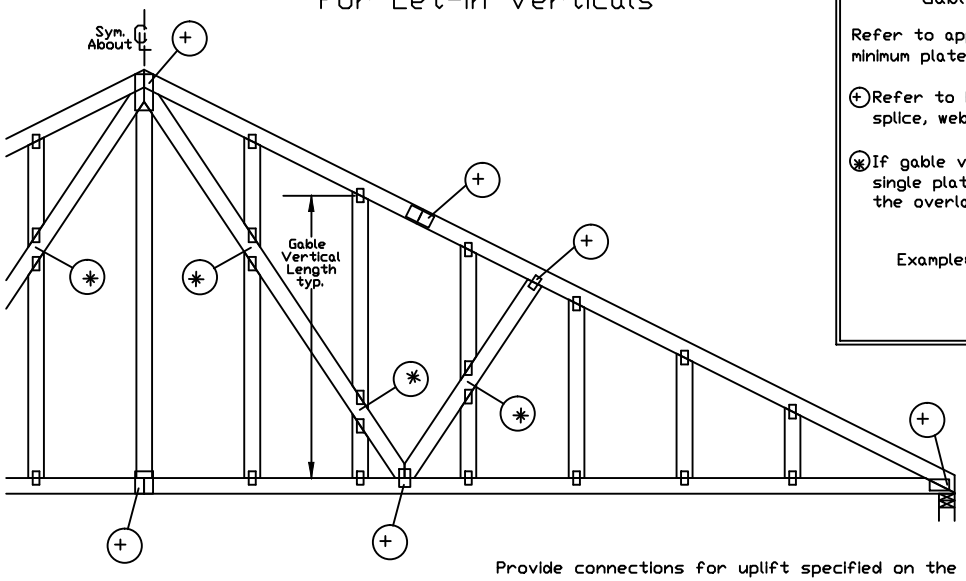
MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB14015
DATE	01/26/2018
DRWG	A14015ENC160118

1/26/2018
FL REG# 278, Yoonhwak Kim, FL PE #86367

Gable Detail
For Let-in Verticals



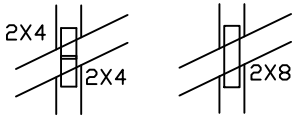
Gable Truss Plate Sizes

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

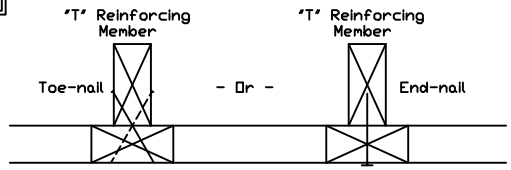
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

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

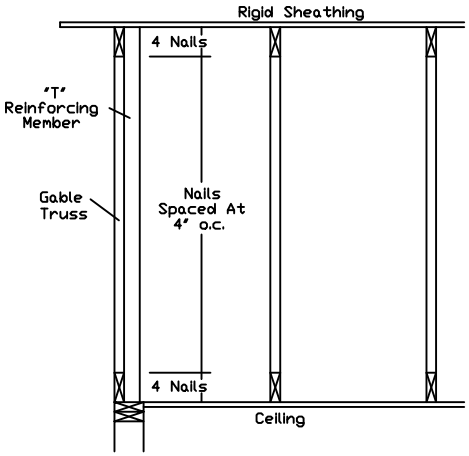
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



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

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

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

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Suite 242
Earth City, MO 63045

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

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

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

01/04/2021
PE REG.# 278, Yoonhwak Kim, FL PE #86367

Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

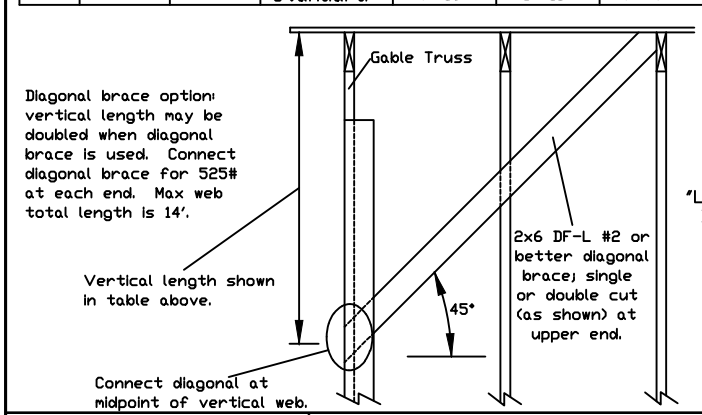
"L" bracing must be a minimum of 80% of web member length.

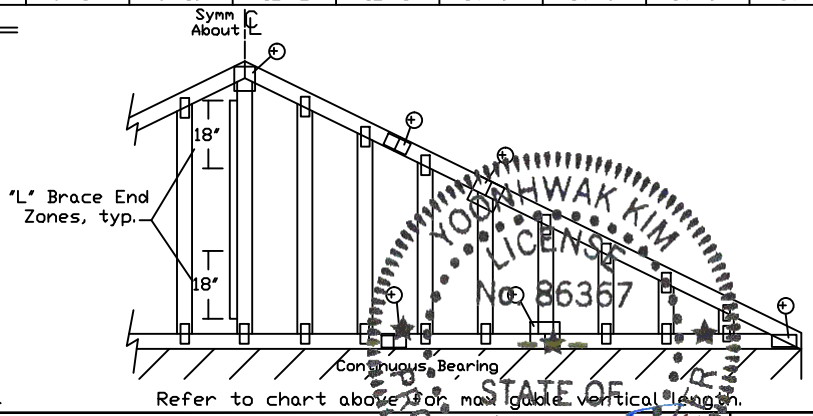
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





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MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB14030
DATE	01/26/2018
DRWG	A14030ENC160118

Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

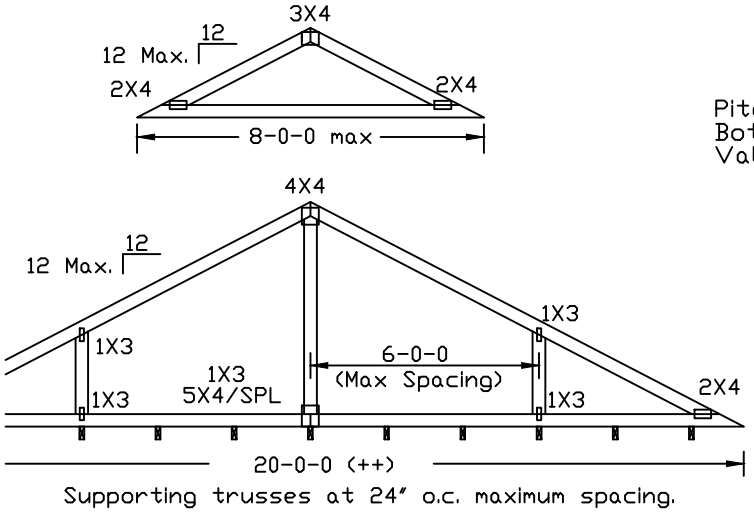
All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

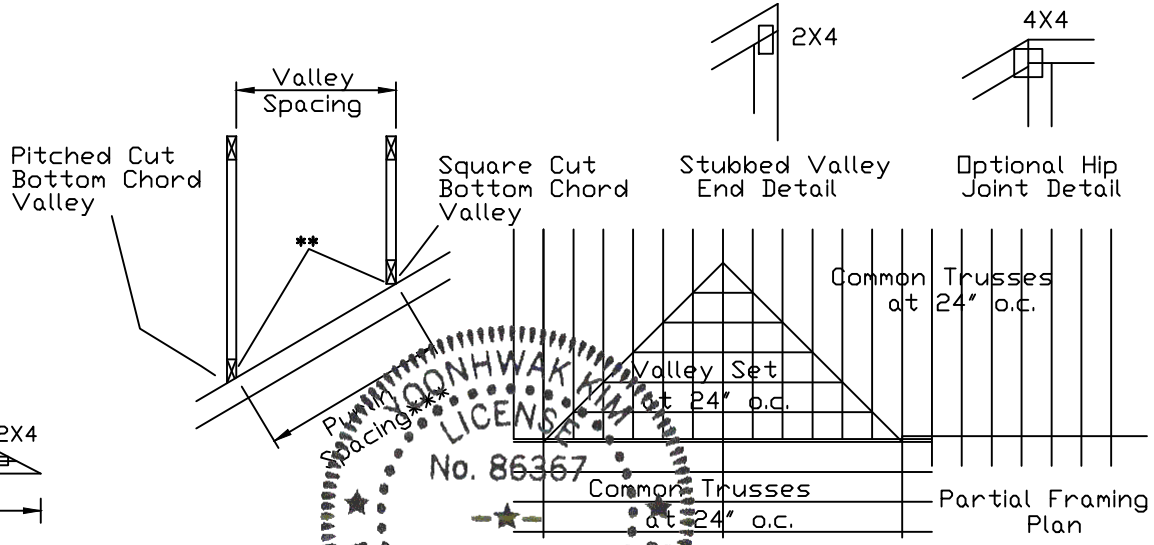
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



Supporting trusses at 24" o.c. maximum spacing.



ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

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 & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VAL180160118

Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for
ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C,
Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on
supporting truss material at connection location:
170 mph for SP (G = 0.55, min.),
155 mph for DF-L (G = 0.50, min.), or
120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

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Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

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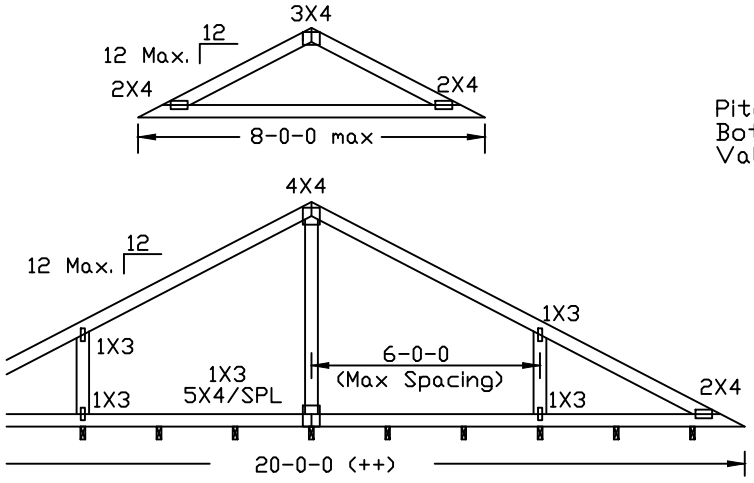
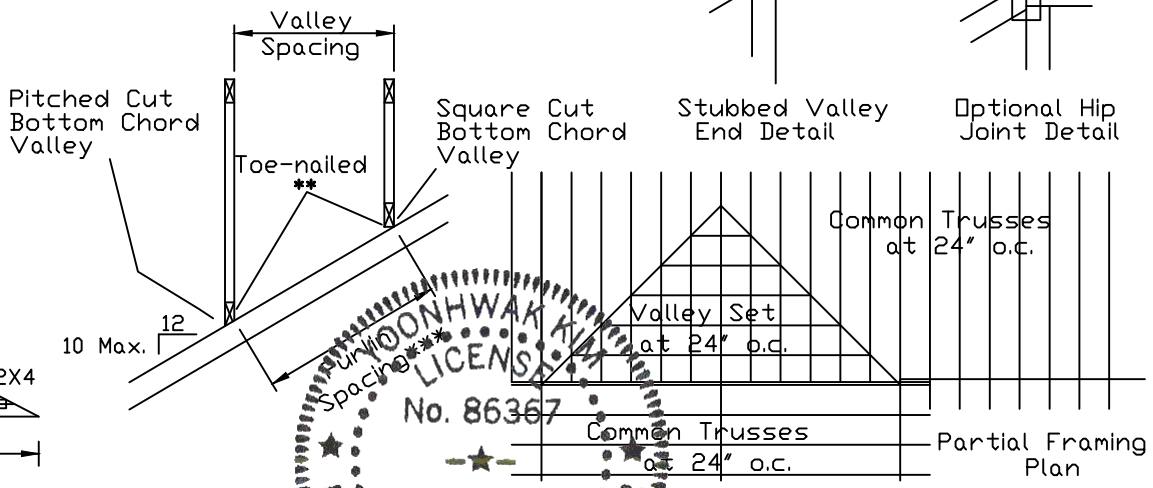


Supporting trusses at 24" o.c. maximum spacing.



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DUR.FAC.	1.25/1.33	1.15	1.15
SPACING		24.0"	

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VALTN160118