



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



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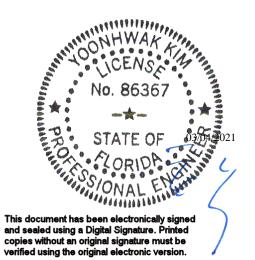
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4565
Job Description: Senn Res 52" Celiing fan in both Garages	
Address: LOT 22 BLACKBERRY FARMS, Lake City, FL	

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	Design Loading (psf): 40.00		
Building Type: Closed			

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

Item	Drawing Number	Truss
1	063.21.1320.31203	A01
3	063.21.1320.35123	A03
5	063.21.1320.38630	A05
7	063.21.1320.42530	A07
9	063.21.1320.48797	B01
11	063.21.1320.53323	B03
13	063.21.1320.58227	B05
15	063.21.1321.03487	B07
17	063.21.1321.15317	B09
19	063.21.1321.35127	B11
21	063.21.1321.39177	C02
23	063.21.1321.51497	C04
25	063.21.1322.23150	C06
27	063.21.1322.26877	D02
29	063.21.1322.30460	G02
31	063.21.1322.34740	H01
33	063.21.1322.38100	H03
35	063.21.1322.41713	HJ1
37	063.21.1322.45290	HJ3
39	063.21.1322.46943	J1A
41	063.21.1322.48460	J3
43	063.21.1322.50140	J4
45	063.21.1322.51590	J6
47	063.21.1322.53000	J7A
49	063.21.1322.56050	P01
51	063.21.1322.59613	P03

Item	Drawing Number	Truss
2	063.21.1320.33350	A02
4	063.21.1320.36973	A04
6	063.21.1320.40647	A06
8	063.21.1320.46310	A08
10	063.21.1320.50967	B02
12	063.21.1320.56070	B04
14	063.21.1321.00987	B06
16	063.21.1321.05593	B08
18	063.21.1321.17910	B10
20	063.21.1321.37340	C01
22	063.21.1321.40730	C03
24	063.21.1321.57567	C05
26	063.21.1322.25293	D01
28	063.21.1322.28907	G01
30	063.21.1322.33090	G03
32	063.21.1322.36227	H02
34	063.21.1322.39800	H04
36	063.21.1322.43317	HJ2
38	063.21.1322.46050	J1
40	063.21.1322.47820	J2
42	063.21.1322.49313	J3A
44	063.21.1322.50890	J5
46	063.21.1322.52307	J7
48	063.21.1322.54230	J7B
50	063.21.1322.58147	P02
52	063.21.1323.00920	V1



Address: LOT 22 BLACKBERRY FARMS, Lake City, FL



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Site Information:

Customer: W. B. Howland Company, Inc.

Job Number: 20-4565

Job Description: Senn Res.- 52" Celling fan in both Garages

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; <a href="https://www.alpineitw.com">www.alpineitw.com</a>.
- 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 Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T18 FROM: CDM Qty: 9 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.31203 Truss Label: A01 / YK 03/04/2021 5'1"1 10'0"9 15' 18'10"12 26'1"4 30' 34'11"7 39'10"15 45' 5'1"1 4'11"7 3'10"12 7'2"8 3'10"12 4'11"7 4'11"7 4'11"7 5'1"1 **≥5**X6 ≡3X4 =3<u>X</u>4 <sup>3X4</sup> √ J≋<sub>3X5</sub> //3X4 E 3X5 2X4 T1 C T5 ≡3X8 Q ≡3X8 P ≡H0308 \_3X4 \_\_U ≡3X4 R ≡5X6 =6X6(B2) =6X6(B2) =H0308 45 1'6" 7'6"13 7'5"3 7'6" 7'6' 7'5"3 7'6"13 7'6"13 15' 22'6' 30 37'5"3 ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 2235 /-/1189 /-/288 2234 /-/-/1189 /-Wind reactions based on MWFRS

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): 0.247 R 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.451 R 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.107 O	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.196 O	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.771	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.623	
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.603	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11	l
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;

(a) Continuous lateral restraint equally spaced on member

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 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.

### G-H 0 - 2765 Maximum Bot Chord Forces Per Ply (lbs)

Brg Width = 3.5

Brg Width = 3.5

Chords Tens.Comp.

Bearings B & M are a rigid surface.

0 - 3583

0 - 3405

0 - 3289

0 - 2947

0 - 2487

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords

I-J

J - K

K-L

L - M

В

C-D

D-E

E-F

F-G

Chords	Tens.Co	ns.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-0	2789	0
S - R	2706	0	O - M	2977	0

Min Rea = 1.9

Min Req = 1.9

Tens. Comp.

0 - 2946

0 - 3403

0 - 3582

- 2485

0 - 3288

### Maximum Web Forces Per Ply (lbs) Webs

					···-p·
E-S	113	- 498	H-Q	0	- 572
F-S	1207	0	Q - I	1209	0
S-G	0	- 571	Q - J	117	- 498



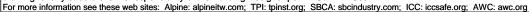
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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

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

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

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





SEQN: 409949 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T16 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.33350 Qty: 1 Truss Label: A02 / YK 03/04/2021 10'0"9 15' 18'10"12 26'1"4 30' 34'11"7 39'10"15 5'1"1 4'11"7 4'11"7 3'10"12 7'2"8 3'10"12 4'11"7 4'11"7 5'1"1 ≢5<u>X</u>6 ≡3X4 G =3X4 ≥5X6 <sup>≋</sup>3X4 ∕ J≋<sub>3X5</sub> K //3X4 E **∌3**X5 **№2X4** T1 R ≡3X8 Q ≡5X6 O ≡H0308 N ≡3X4 ≡6X6(B2) T ≡3X4 S ≡H0308 P ≡3X8 =6X6(B2) 44'11"8 7'6"13 7'5"3 7'6" 7'6' 7'5"3 7'6"13 7'6"13 15' 22'6' 30 37'5"3 ▲ Maximum Reactions (lbs) Gravity Non-Gravity

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): 0.258 Q 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.473 Q 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.103 N	
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.189 N	
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.769	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.803	
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.603	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11	
Lumber	•		•	_

Loc R+ /R /Rh /Rw /U /RL В 2231 /-/1181 /-/272 2137 /-/-/1098 /-Wind reactions based on MWFRS Brg Width = 3.5Min Rea = 1.8Brg 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			

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;

(a) Continuous lateral restraint equally spaced on member

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 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.



rens.comp.		Cnoras	rens. Comp.	
2972	0	Q-P	2694	0
	U	P-0	2/60	0
2784	0	O - N	2760	0
2697	0	N - M	4519	0
	2972 2784 2784	2972 0 2784 0 2784 0	2972 0 Q - P 2784 0 P - O 2784 0 O - N	2972 0 Q - P 2694 2784 0 P - O 2760 2784 0 O - N 2760

# 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



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

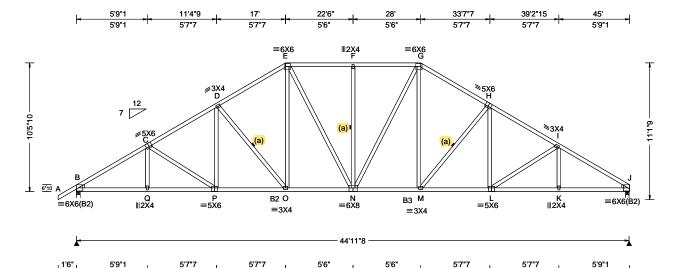
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SEQN: 409950 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T41 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.35123 Qty: 1 Truss Label: A03 / YK 03/04/2021



22'6

33'7"7

Ē-F

39'2"15

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
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): 0.245 F 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.457 F 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.105 K	
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.196 K	
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.977	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.828	
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.293	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		_
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber	·	·	·	_

11'4"9

### Lumber

Top chord: 2x4 SP #2;

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

Lt Wedge: 2x4 SP #3;Rt Wedge: 2x4 SP #3;

(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.

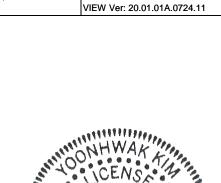
Wind loads based on MWFRS with additional C&C member design.

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.



▲ Maxin	▲ Maximum Reactions (lbs)							
	Gravity Non-Gravity							
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
B 2189	9 /-	/-	/1185	/41	/304			
J 209	5 /-	/-	/1103	/31	/-			
Wind rea	actions b	ased on	MWFRS					
B Brg	Width =	3.5	Min Re	q = 1.8	3			
J Brg	Width =	3.5	Min Re	g = 1.7	7			
Bearings	sB&Ja	re a rigio	d surface.	•				
Member	s not list	ed have	forces less	than :	375#			
Maximu	m Top (	hord F	orces Per	Ply (lb	s)			
Chords	Tens.Co	omp.	Chords	Tens.	Ćomp.			
B-C	79 -	3462	F-G	159	- 2415			
C-D		3185			- 2717			
D-E	155 -	2724	H-I	119	- 3177			

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

159 - 2415

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

79 - 3432

# Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp.		vvebs	rens. Comp.	
D - O	109	- 643	G - M	708	- 30
E - O	723	- 28	M - H	112	- 625

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SEQN: 409951 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T40 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.36973 FROM: CDM Qty: 1 Truss Label: A04 / YK 03/04/2021 5'1"1 10'0"9 15' 18'10"12 26'1"4 30' 34'11"7 39'10"15 45' 5'1"1 4'11"7 4'11"7 3'10"12 7'2"8 3'10"12 4'11"7 4'11"7 5'1"1 ≢5<u>X</u>6 ≡3X4 G =3X4 ≥5X6 <sup>3X4</sup> √J≋3X5 K //3X4 E //3X5 **№2X4** T1 R ≡3X8 Q ≡5X6 O ≡H0308 N ≡3X4 ≡6X6(B2) T ≡3X4 S ≡H0308 P ≡3X8 =6X6(B2) 44'11"8 7'6"13 7'5"3 7'6" 7'6' 7'5"3 7'6"13 7'6"13 15' 22'6' 30 37'5"3

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): 0.258 Q 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.473 Q 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.103 N	
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.189 N	
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.770	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.804	
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.603	
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11	
Lumber			•	-

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 2232 /-/1176 /50 /272 2138 /-/-/1094 /38 /-Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.8Brg 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. 145 - 2477 97 - 3577 C-D 106 - 3399 146 - 2935

J-K

K-L

L - M

114 - 3258

- 3562

107 - 3374

97

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;

(a) Continuous lateral restraint equally spaced on member

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

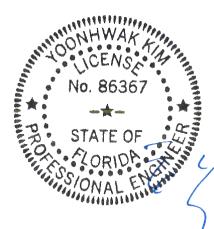
Wind loads based on MWFRS with additional C&C member design.

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.



### Maximum Bot Chord Forces Per Ply (lbs) Chards Tens Comp Chords

rens.comp.		Onorda	i ciis. C	onip.
2973	- 139	Q-P	2697	0
2785	-80	P-0	2762	0
2785	- 80	O - N	2762	0
2699	- 11	N - M	4522	- 42
	2973 2785 2785	2973 - 139 2785 - 80 2785 - 80	2973 -139 Q - P 2785 -80 P - O 2785 -80 O - N	2973 -139 Q - P 2697 2785 -80 P - O 2762 2785 -80 O - N 2762

### Maximum Web Forces Per Ply (lbs)

114 - 3283

146 - 2941

145 - 2481

147 - 2757

D-E

E-F

F-G

G-H

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

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SEQN: 409952 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T39 FROM: CDM Qty: 1 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.38630 Truss Label: A05 / YK 03/04/2021 6'6"13 13' 17'9"14 22'6" 27'2"2 38'5"3 45' 6'6"13 6'5"3 4'9"14 4'8"2 4'8"2 4'9"14 6'5"3 6'6"13 ≢5X6 D ≡3X4 E ≡3X4 G ≅5X6 H =5X6 **≷3X4 ∮**5X6 8'1"10 8'9"9 6"10 Q |||2X4 P O = 3X8 = 4X6N ≡3X8 =6X6(B2) M L ≡4X6 ≡3X8 K ∥2X4 =6X6(B2) 44'11"8 6'6"13 9'6" 9'6" 1'6" 6'5"3 6'5"3 6'6"13 6'6"13 13' 22'6' 32 38'5"3 45'

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		Pf: NA Ce: NA	VERT(LL): 0.267 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.505 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.096 K
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.182 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.975
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.763
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.421
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
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;

(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 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.

### ▲ Maximum Reactions (lbs) Gravity

Clavity				14011 Clavity		
Loc	R+	/ R-	/ Rh	/Rw /U /RL		
В	2150	/-	/-	/1165 /349 /239	)	
J	2056	/-	/-	/1082 /324 /-		
Wind reactions based on MWFRS						
В	Brg V	/idth =	: 3.5	Min Req = 1.8		
	Dra M	lidth -	2.5	Min Dog - 17		

Non-Gravity

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.Com	p. Webs	Tens.	Comp.
D - P	1095 - 1		405	
P - E	141 - 7	21 G-L	142	- 733
E - N	398 -	28 L-H	1106	- 135



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Ply: 1 FROM: CDM Qty: 1 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.40647 Truss Label: A06 / YK 03/04/2021 5'6"13 18'8"9 22'6" 26'3"7 34' 39'5"3 45 5'6"13 5'5"3 7'8"9 3'9"7 3'9"7 7'8"9 5'5"3 5'6"13 **∥2X4 ₩7**X6 =5<u>¥</u>6 ∥2X4 G **#7**X6 T2 E ТЗ **∌3X4 ₹3X4** 6'11"10 P ≡H0308 O =4X8 N ≡4X8 R ∥2X4 Q ≡3X4 M ≡4X6 =6X6(B2) || K ||2X4 ≡3X4 =6X6(B2) 44'11"8 1'6" 5'5"3 7'8"9 7'6"13 7'8"9 5'6"13 5'6"13 5'5"3 5'6"13 11' 18'8"9 26'3"7 34' 39'5"3 45'

Loading Criteria (psi	) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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): 0.271 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.513 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.095 K
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.181 K
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.954
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.783
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.424
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11
Lumber		•	_

Job Number: 20-4565

SEQN: 409953

HIPS

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 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

	▲ Maximum Reactions (			lbs)		
	Gravity			Non-Gravity		
	Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL
	B 215	51 /-	/-	/1149	/352	/207
	J 205	56 /-	/-	/1067	/327	/-
	Wind re	eactions b	ased on	MWFRS		
	B Bro	g Width =	3.5	Min Re	q = 1.8	
	J Bro	g Width =	3.5	Min Re	q = 1.7	
	Bearing	gsB&Ja	re a rigid	surface.		
	Membe	rs not list	ed have	forces less	than 3	375#
	Maxim	um Top (	Chord Fo	rces Per	Ply (lb:	s)
	Chords	Tens.C	omp.	Chords	Tens.	Comp.
	B-C	556 -	3382	F-G	670	- 3482
_	C-D		3141	G-H	670	- 3482
	D-E	670 -	3486	H-I	572	
	E-F	670 -		i-J	551	- 3350

Cust: R 215 JRef: 1X3f2150001

T38

Chords	Tens.C	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.C	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

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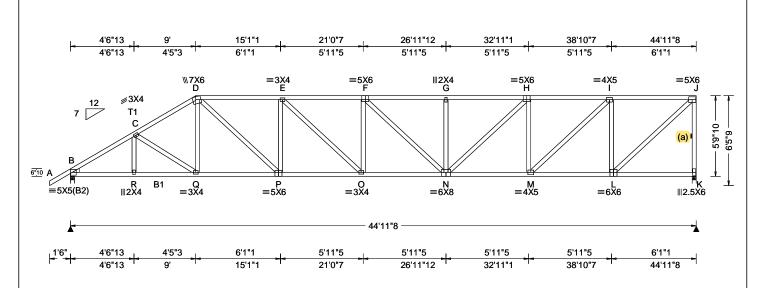
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SEQN: 409954 HIPM Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T1 Senn Res.- 52" Celiing fan in both Garages FROM: CDM DrwNo: 063.21.1320.42530 Qty: 1 Truss Label: A07 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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): 0.305 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.631 F 853 240
BCDL: 10.00	Risk Category: II EXP: C Kzt: NA	Snow Duration: NA	HORZ(LL): 0.084 D
Des Ld: 40.00	Mean Height: 15.00 ft		HORZ(TL): 0.173 D
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.669
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.914
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.929
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
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

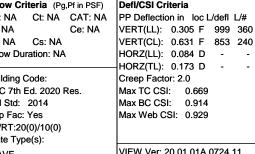
Wind loads based on MWFRS with additional C&C member design.

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



Gravity Loc R+ /R /Rh 1976 /-

▲ Maximum Reactions (lbs)

K 186	5 /-	/-	/939	/355	/-		
Wind re	Wind reactions based on MWFRS						
B Brg	Width =	3.5	Min Re	q = 1.6	3		
K Brg	Width =	3.5	Min Re	q = 2.2	2		
Bearing	sB&Ka	are a ri	gid surface.				
Member	rs not list	ed hav	e forces les	s than 3	375#		
Maximu	ım Top (	Chord	Forces Per	Ply (lb	s)		
Chords	Tens.C	omp.	Chords	Tens.	Ćomp.		
Chords B - C	Tens.C 527		Chords F - G	Tens. 714	Comp. - 3685		
	527 -		-				
B - C	527 - 561 -	3051	F-G	714	- 3685 - 3685		
B - C C - D	527 - 561 - 681 -	3051 2898	F - G G - H	714 714	- 3685 - 3685		

Non-Gravity

/1147 /346 /209

/RL

/Rw /U

# 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		

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

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

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

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SEQN: 410002 HIPM Ply: 2 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T34 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.46310 FROM: CDM Qty: 1 Truss Label: A08 03/04/2021 / YK 2 Complete Trusses Required 25'11<u>"12</u> 44'11<u>"8</u> 11'10"4 16'6"12 21'3"4 30'8"4 35'4"12 40'1"4 4'10"4 4'8"8 4'8"8 4'8"8 4'8"8 4'8"8 4'8"8 4'10"4 =4X4 D ≡3X4 E ∥2X4 G ≡3X4 H =6X8 =7<u>X</u>6 =7X6 =5X6 =7X6 47"10 5'5"14 6"10 \_\_S ≡5X5 R ≡7X6 Q ≡3X4 P ≡3X10 \_7X6 N ≡5X6 M ≡7X6 T ≡7X6 **∥3X8** =5X6(A1) - 44'11"8 4'10"4 4'8"8 4'8"8 4'8"8 4'8"8 4'8"8 4'8"8 4'10"4 25'11"12 11'10"4 16'6"12 21'3"4 30'8"4 35'4"12 40'1"4 44'11"8

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): 0.305 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.614 F 875 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.069 C
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.139 C
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.172
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.377
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: No	Max Web CSI: 0.864
	Loc. from endwall: not in 6.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumbor		Additional Notes	

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. :1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

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

in each row to avoid splitting.

### **Special Loads**

-1.50 to TC: From 63 plf at 63 plf at 7.00 to 44.96 TC: From 32 plf at 32 plf at BC: From 5 plf at -1.50 to 5 plf at 0.00 BC: From BC: From 20 plf at 0.00 to 7.15 to 20 plf at 10 plf at 10 plf at 44.96 TC: 291 lb Conc. Load at 7.03 197 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 loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

4-7-10

The overall height of this truss excluding overhang is

### C-D 1210 - 4874 H - I 1350 - 5422 D-E 1451 - 5838 I - J 1038 - 4172 594 - 2390 E-F 1559 - 6269 J - K F-G 1529 - 6141

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords

/Rh

/-

Wind reactions based on MWFRS Brg Width = 3.5

Bearings B & L are a rigid surface.

982 - 3947

▲ Maximum Reactions (lbs) Gravity

/R

/-

Brg Width = 3.5

Chords Tens.Comp.

Loc R+

4476 /-

4840

В

В

B - C

Non-Gravity

/Rw /U /RL

Min Req = 1.9

Min Req = 2.0

/1095 /-

/1212 /-

Tens. Comp

1529

### 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	0-1	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	30/1 - 008			

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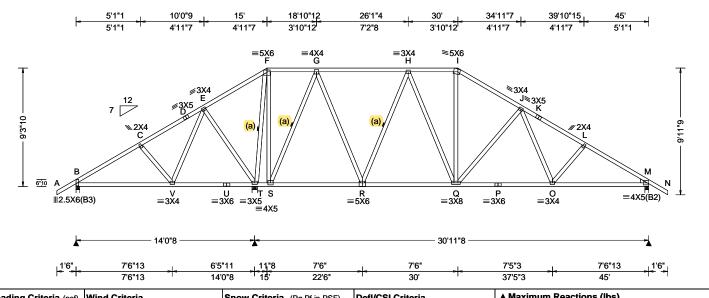
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SEQN: 409955 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T13 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.48797 Qty: 1 Truss Label: B01 / YK 03/04/2021



Loading Criteria (pst)	wind Criteria	Snow Criteria (Pg,Pt in PSF)	Defi/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.102 J 999 360	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.191 J 999 240	E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.038 O	٦
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.069 O	١
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	١
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.681	E
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.903	ľ
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.895	Ë
	Loc. from endwall: not in 13.00 ft			N
	GCpi: 0.18	Plate Type(s):		N
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	(
Lumber				_

▲ N	▲ Maximum Reactions (lbs)						
	G	ravity		No	n-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	454	/-	/-	/288	/10	/288	
Т	2717	/-	/-	/1294	/58	/-	
М	1415	/-	/-	/850	/60	/-	
Wi	nd read	tions b	ased on	MWFRS			
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	5	
Т	Brg V	Vidth =	4.9	Min Re	q = 2.8	В	
М				Min Re	q = 1.	7	
Bea	Bearings B, T, & M are a rigid surface.						
Members not listed have forces less than 375#							
Ma	Maximum Top Chord Forces Per Ply (lbs)						
Ch	ords T	ens.Co	omp.	Chords	Tens.	Comp.	

### E-F - 1789 747 125 G-H 118 - 729 K-L 117 - 1904 143 - 1109 111 - 2092 H - I L-M 139 - 1367 I - J

Chords

P - O

O - M

Tens. Comp.

- 29

1455

1713

### **Bracing**

Top chord: 2x4 SP #2;

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

Rt Wedge: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on member

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

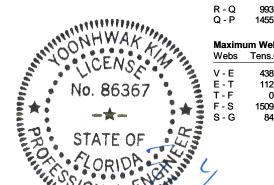
Wind loading based on both gable and hip roof types.

### **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.



Maximum Web Forces Per Ply (lbs) Tens.Comp. Webs

Maximum Bot Chord Forces Per Ply (lbs)

0

Chords Tens.Comp.

993

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

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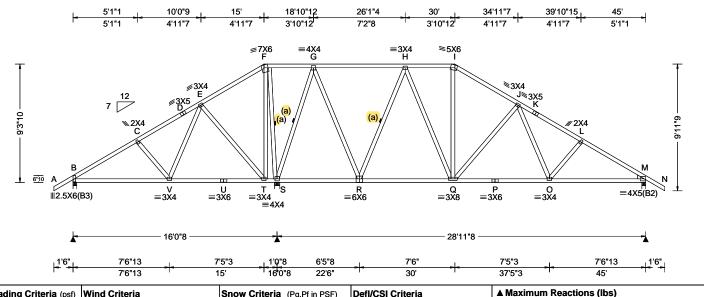
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SEQN: 409956 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T12 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.50967 Qty: 1 Truss Label: B02 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res.	PP Deflection in loc L/defl L/# VERT(LL): 0.075 O 999 360 VERT(CL): 0.143 O 999 240 HORZ(LL): 0.025 O HORZ(TL): 0.047 O Creep Factor: 2.0 Max TC CSI: 0.758	
Load Duration: 1.25 Spacing: 24.0 "	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	TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max BC CSI: 0.824 Max Web CSI: 0.792 VIEW Ver: 20.01.01A.0724.11	N N
Lumber				-

Gravity			•	Non-Gravity			
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	486	/-	/-	/310	/19	/288	
s	2899	/-	/-	/1348	/48	/-	
М	1236	/-	/-	/770	/59	/-	
Wir	nd read	tions ba	sed on M	WFRS			
B Brg Width = 3.5 Min Req = 1.5							
s	Brg V	/idth = 4	.9	Min Red	q = 3.0		
М	Brg V	/idth = 3	.5	Min Red	g = 1.5		
Bea	arings I	3, S, & N	1 are a rig	gid surfa	ce.		
Ме	mbers	not listed	d have for	rces less	than 3	75#	
Maximum Top Chord Forces Per Ply (lbs)							
Cho	ords T	ens.Cor	np. C	hords	Tens.	Ćomp.	

### B - C 405 - 1023 226 137 E-F 832 0 J - K 123 - 1459 F-G - 1575 789 0 K-L 115 109 - 1764

### **Bracing**

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2:

Rt Wedge: 2x4 SP #3;

Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on member

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

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

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

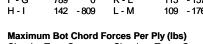
Wind loading based on both gable and hip roof types.

### **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.



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

# Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Con	np.
V - E	489 0	G-R	1256	0
E-T	111 -614	R - H	75 -9	954
F-T	528 - 35	H-Q	545	0
F-S	50 - 1096	Q-J	106 - 5	551
S - G	86 - 1662	J-0	386	0



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SEQN: 409957 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T11 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.53323 FROM: CDM Qty: 1 Truss Label: B03 / YK 03/04/2021 5'1"1 10'0"9 15 18'0"8 26'1"4 30' 34'11"7 39'10"15 45' 5'1"1 4'11"7 4'11"7 3'0"8 8'0"12 3'10"12 4'11"7 5'1"1 4'11"7 ≡6X8 ≡3X4 H **≥5**X6 <sup>≋</sup>3X4 ∫≅3X5 K //3X4 E **∌3**X5 9'3"10 R ≡6X6 Q ≡3X8 **∥3X6(B3)** ≡3X6 | 'S ||3X4 P ≡3X6 O ≡3X4 112.5X6(B3) **≡**3X4 =4X8 18'0"8 26'11"8 1'6" 7'6"13 7'5"3 3'0"8 4'5"8 7'6" 7'5"3 7'6"13 7'6"13 15' 18'0"8 22'6' 30' 37'5"3 45 ▲ Maximum Reactions (lbs) Gravity Non-Gravity / U Loc R+ /Rh /Rw /RL В 689 /435 /26 /288

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.073 J 999 360	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.136 J 999 240	E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.028 O	5
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.052 O	١
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	١
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.803	E
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.827	5
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.873	E
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		Ī
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	(
Lumber		•		_

S	2656	/-	/-	/1240	/39	/-
М	1180	/-	/-	/746	/57	/-
Wi	nd reac	tions ba	sed on N	<b>IWFRS</b>		
В	Brg W	/idth = 3	3.5	Min Re	q = 1.5	
s	Brg W	/idth = 4	l.9	Min Re	q = 2.8	
М	Brg W	/idth = 3	3.5	Min Re	q = 1.5	
Bea	arings E	3, S, & N	√l are a ri	gid surfa	ce.	
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Ch	ords T	ens.Co	mp. (	Chords	Tens.	Comp.

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

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

# Loading

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2:

Webs: 2x4 SP #3;

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

### **Purlins**

Bracing

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

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

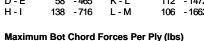
Wind loading based on both gable and hip roof types.

### **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.

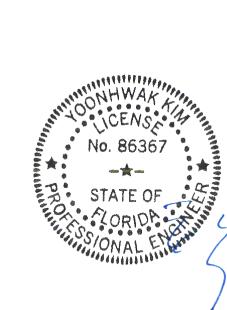


### Chords Tens.Comp. Chords Tens. Comp. B - V 597 - 237 Q-P 1071 0 T - S 137 - 549 P - 0 1071 0 S - R 137 - 549 O - M 1348 - 25 R - Q 503

### 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 - J106 - 554 G-S 58 - 2541 J - O 388 0

G - R

1340



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SEQN: 409958 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T20 Qty: 6 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.56070 FROM: CDM Truss Label: B04 / YK 03/04/2021 10'0"9 15' 26'1"4 30' 34'11"7 39'10"15 45' 5'1"1 4'11"7 4'11"7 4'1"12 6'11"8 3'10"12 4'11"7 4'11"7 5'1"1 ≢5<u>X</u>6 ≡6X8 G ≡3X4 ≥5X6 <sup>≋</sup>3X4 <sup>J≋</sup>3X5 K //3X4 E 3X5 U ≡3X4 S ≡4X8 ≡Q ≡6X6 O ≡3X5 N ≡3X4 =3X5(B2) ''R ∥3X4 P ≡3X8 ı ≡3X6 112.5X6(B3) 19'1"12 25'10"4 7'6"13 7'5"3 4'1"12 3'4"4 7'6" 7'5"3 7'6"13 7'6"13 15' 19'1"12 22'6" 30' 37'5"3 ▲ Maximum Reactions (lbs)

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	ı
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	l
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.065 J 999 360	l
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.122 N 999 240	l
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 N	l
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.047 N	
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	l
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.595	l
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.814	l
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.868	l
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		l
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber		•		-

= maximum reactions (ibs)						
Gravity			Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	755	/-	/-	/475	/25	/272
R	2623	/-	/-	/1225	/43	/-
М	1021	/-	/-	/630	/44	/-
Wi	nd read	tions b	ased on I	MWFRS		
В	Brg V	/idth =	3.5	Min Re	q = 1.5	5
R	Brg V	/idth =	3.5	Min Re	q = 2.7	7
М	Brg V	/idth =	-	Min Re	q = -	
Be	arings I	3 & R a	are a rigid	surface.		
Me	Members not listed have forces less than 375#					
Maximum Top Chord Forces Per Ply (lbs)						
Ch	Chords Tens.Comp. Chords Tens. Comp.					

### B - C 130 -817 - 896 C-D 48 - 701 J - K 119 - 1277 111 - 1392 D-E 56 - 585 K-L 135 - 631 105 - 1586 H - I

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

### Hangers / Ties

Top chord: 2x4 SP #2;

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

(J) Hanger Support Required, by others

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

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

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

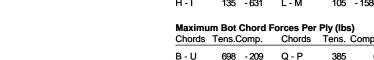
Wind loading based on both gable and hip roof types.

### **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



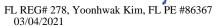
G-Q

1271

- 11

Chords	Tens.C	comp.	Chords	Tens. C	omp.
B - U	698	- 209	Q-P	385	0
U - T	376	- 150	P-0	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			

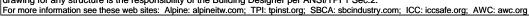


\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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SEQN: 409959 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 Т8 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1320.58227 FROM: CDM Qty: 1 Truss Label: B05 / YK 03/04/2021 5'1"1 10'0"9 15' 18'10"12 26'1"4 30' 34'11"7 39'10"15 45 5'1"1 4'11"7 4'11"7 3'10"12 7'2"8 3'10"12 4'11"7 4'11"7 5'1"1 ≢5<u>¥</u>6 ≡4X4 G =3X4 ≥5X6 <sup>≋</sup>3X4 ∕ J≋3X5 K //3X4 E **∌3X5** М <sup>™</sup>R ≡6X8 Q ≡6X6 O ≡3X5 N ≡3X4 III3X6(B3) S ≡3X6 P ≡3X8 =3X4 ⊪2.5X6(B3) 15'1"12 29'10"4 7'6"13 7'5"3 7'6" 7'6" 7'5"3 7'6"13 7'6"13 15' 22'6" 37'5"3 Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) CAT: NA IΑ Ct: NA Ce: NA Cs: NA Α Duration: NA ing Code: 7th Ed. 2020 Res.

TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA
TCDL:	10.00	Speed: 130 mph	Pf: NA
BCLL:	0.00		Lu: NA
BCDL:	10.00	Risk Category: II	Snow
Des Ld:	40.00	EXP: C Kzt: NA	
NCBCLL:		Mean Height: 15.00 ft	Buildir
Soffit:	2.00	TCDL: 5.0 psf BCDL: 5.0 psf	FBC 7
Load Dura	ation: 1.25	MWFRS Parallel Dist: > 2h	TPI St
Spacing: 2		C&C Dist a: 4.50 ft	Rep F
-p		Loc. from endwall: not in 13.00 ft	FT/RT
		GCpi: 0.18	Plate <sup>-</sup>
		Wind Duration: 1.60	WAVE

# td: 2014 ac: Yes T:20(0)/10(0) Type(s):

PP Deflection in	loc L	/defl	L/#	
VERT(LL): 0.07	9 J	999	360	
VERT(CL): 0.15	0 J	999	240	
HORZ(LL): 0.02	6 N	-	-	
HORZ(TL): 0.04	7 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				

A WAXIIIUIII REACTIONS (IDS)						
	G	ravity		No	n-Gra	vity
Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
В	424	/-2	/-	/274	/21	/272
R	2931	/-	/-	/1363	/60	/-
М	1184	/-	/-	/703	/47	/-
Win	d read	tions bas	sed on N	/WFRS		
В	Brg W	/idth = 3	.5	Min Red	q = 1.5	5
R	Brg W	/idth = 3	.5	Min Red	q = 3.1	
М	Brg W	/idth = -		Min Red	7 = -	
Bearings B & R are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Cho	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
ш і	111	ഹാ			

# **Bracing**

Lumber

(a) Continuous lateral restraint equally spaced on member.

### Hangers / Ties

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

(J) Hanger Support Required, by others

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

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

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



Tens.C	omp.	Cnoras	rens. C	omp.
167	- 438	P-0	1258	0
167	- 438	O - N	1258	0
732	0	N - M	1544	- 46
	167 167	167 -438 167 -438 732 0	167 -438 P-O 167 -438 O-N	167 - 438 P - O 1258 167 - 438 O - N 1258

### Maximum Web Forces Per Ply (lbs)

vvens	rens.comp.	Webs	Tells. C	onp.
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			



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WAVE

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

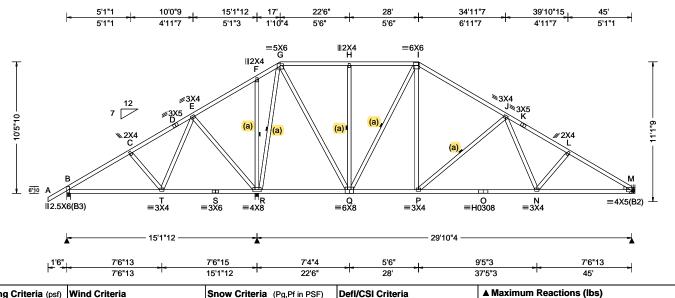
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 409960 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T7 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.00987 FROM: CDM Qty: 1 Page 1 of 2 Truss Label: B06 / 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): 0.091 J 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.171 J 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.031 N
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.058 N
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.576
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.901
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.983
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11
Lumber		Loading	

### Loading

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

# М

G-Q

H-Q

1444

80 - 377

- 52

В 467

Brg Width = 3.5 Min Req = 1.5 Brg Width = 3.5 Min Req = 2.9 Brg Width = -Min Rea =

/-

Wind reactions based on MWFRS

/Rh

Gravity

Loc R+

2806 /-

1231 /-

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

Non-Gravity

/RL

/304

/Rw /U

/293

/1347 /55 /-

/733 /46

Maximu	ım Bot C	hord F	Forces Per	Ply (lbs)	
Chords	Tens.Co	mp.	Chords	Tens. C	omp.
Q-P	831	0	O - N	1342	0
P - O	1342	0	N - M	1626	- 40

### Maximum Web Forces Per Ply (lbs) Tens.Comp. T - E Q - I 37 - 572 I - P 744 E - R 105 -3 R-G P-J 125 13 - 1795 - 676

J - N

441

0

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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.

(a) Continuous lateral restraint equally spaced on

Top chord: 2x4 SP #2;

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

**Bracing** 

member Hangers / Ties

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 uses the following

(14) 0.148"x3" nails into supporting

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

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 409960 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T7 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.00987 Qty: 1 Page 2 of 2 Truss Label: B06 / YK 03/04/2021

### **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



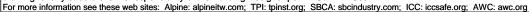
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SEQN: 409961 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 Т6 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.03487 FROM: CDM Qty: 1 Truss Label: B07 / YK 03/04/2021 5'1"1 10'0"9 15' 18'10"12 26'1"4 30' 34'11"7 39'10"15 45' 5'1"1 4'11"7 3'10"12 7'2"8 3'10"12 4'11"7 4'11"7 4'11"7 5'1"1 **≥5**X6 ≡3X4 =3<u>X</u>4 <sup>3X4</sup> ✓ J≋3X5 //3X4 E 12 3X5 2X4 T1 C T5 =3X4 ≡3X8 P ≡H0308 \_3X4 R ≡5X6 =6X6(B2) =6X6(B2) =H0308 45' 1'6" 7'6"13 7'5"3 7'6" 7'6' 7'5"3 7'6"13 7'6"13 15' 22'6' 30 37'5"3 ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 2236 /-/1179 /49 /288 2236 /-/-/1179 /-М /49 Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.9Brg Width = 3.5 Min Req = 1.9 Bearings B & M are a rigid surface.

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): 0.247 R 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.451 R 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.108 O
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.197 O
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.771
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.623
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.603
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11
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;

(a) Continuous lateral restraint equally spaced on member

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

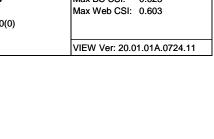
Wind loads based on MWFRS with additional C&C member design.

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.



### 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 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

Maxilli	Maximum Bot Chord Forces Fer Fly (lbs)					
Chords	Tens.Comp.	Chords	Tens. 0	Comp		
B - U	2979 - 111	R - Q	2707			
11 T	2702 54	A D	2704			

91 - 2767

G-H

0 2791 0 T - S P - O 2791 0 2792 - 51 S - R 2707 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 1208 -2 Q - I -2 S-G - 572 Q - J- 498 95 111

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

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

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

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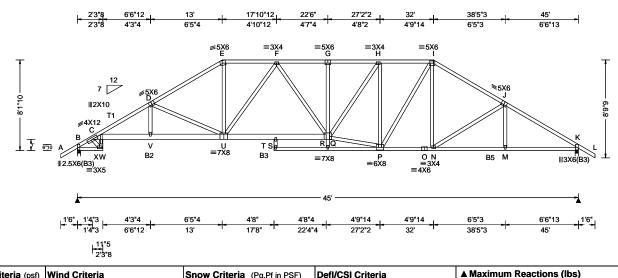
PROTES

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SEQN: 410021 HIPS Ply: 2 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T2 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.05593 Qty: 1 Truss Label: B08 / 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		Pf: NA Ce: NA	VERT(LL): 0.185 T 999 360		
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.359 T 999 240		
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.103 M		
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.200 M		
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0		
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.453		
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.532		
Spacing: 24.0 "	ICAC DISCA. 4.50 IL	Rep Fac: Yes	Max Web CSI: 0.540		
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)			
	GCpi: 0.18	Plate Type(s):			
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11		
l					

### 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. : 1 Row @ 4" o.c. Webs

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

### Plating Notes

All plates are 2X4 except as noted.

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

Wind loads based on MWFRS with additional C&C

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).

### Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 2091 /-/1167 /105 2091 /-/-/1167 /105 Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.5Brg Width = 3.5 Min Req = 1.5Bearings 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

H - I

I-J

J-K

117 - 1394

107 - 1449

91 - 1647

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

131 - 2269

110 - 1667

110 - 1405

132 - 1732

C-D

D-E

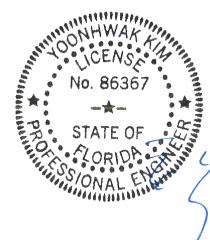
E-F

F-G

Chords	Tens.C	Comp.	Chords	Tens. C	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



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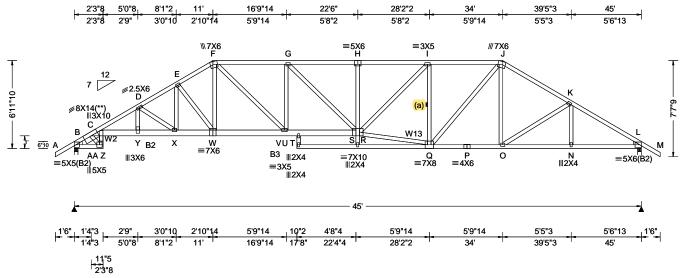
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SEQN: 409963 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T5 DrwNo: 063.21.1321.15317 FROM: CDM Qty: 1 Senn Res. - 52" Celling fan in both Garages Truss Label: B09 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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		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 BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.435
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.975
Spacing: 24.0 "		Rep Fac: Yes	Max Web CSI: 0.691
-pg		FT/RT:20(0)/10(0)	
		Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

### 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;

(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 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.

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).

### Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 1997 /-/1152 /118 2038 /-/-/1152 /118 Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.7Brg 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 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 Reactions (lbs)

# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	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-0	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
<b>/</b> E - W	75 - 561	I - Q	204	- 1202
<b>y</b> - W	626 - 19	Q - J	921	- 140

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 409964 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T4 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.17910 Qty: 1 Truss Label: B10 / YK 03/04/2021 2'3"8 5'7"12 9 13'7"4 18'0"12 22'6"4 26'11"12 31'5"4 36' 40'5"3 45' 4'6"13 <sup>-</sup> 3'4"4 3'4"4 4'7"4 4'5"8 4'5"8 4'5"8 4'5"8 4'6"12 4'5"3 ₩7X6 E ∥2X4 G =5X6 H ≡6X6 K **∌8X14(\*\*)** ∭3X10 W10 **∥2.5**X6 =7**2**6 AA Z ≡7X10 |||2X4 S B4 Q ≡5X6 Р **B5** 0 ∥2X4 ≡5X5(B2) =7X10 ≡5X5(B2) ≡5X6 3'4"4 3'4"4 4'7"4 4'3"12 4'7"4 4'5"8 4'5"8 4'6"12 4'5"3 4'6"13 5'7"12 9' 13'7"4 17'11" 22'6"4 26'11"12 31'5"4 36' 40'5"3 45

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): 0.361 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.741 G 726 240
	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.177 O
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.364 O
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.562
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.971
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.891
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
1		·	

	▲ Maximum Reactions (lbs)						
ŧ		(	3ravity		N	on-Gra	vity
60	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
40	В	1973	/-	/-	/1133	/128	/191
-	М	1973	/-	/-	/1133	/128	/-
-	Win	nd rea	ctions b	ased o	n MWFRS		
	В	Brg \	Nidth =	3.5	Min Re	eq = 2.3	3
	М	Brg \	Nidth =	3.5	Min Re	eq = 1.6	6
	Bea	arings	B & M	are a riç	gid surface.		
	Mer	mbers	not list	ed have	e forces les	s than :	375#
	Max	kimur	n Top (	Chord F	Forces Per	Ply (lb	s)
	Cho	ords	Tens.C	omp.	Chords	Tens.	Comp.
	В-	С	180 -	2485	H-I	382	- 3801
	c-				i - J	389	- 3635
	D-	E	293 -	3561	J - K	340	- 3174

386 - 3960

464 - 4677

E-F

F-G

- 3635

- 3174

264 - 2888

213 - 3050

### 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;

11"5 2'3"8

### **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

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.



### G-H 463 - 4664 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - Z 1856 - 169 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 - 121 2528 W - T 4025 - 249

K-L

L - M

# 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		

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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): 0.438 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.883 G 608 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.181 M
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.365 M
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.343
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.927
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.657
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.01.01A.0724.11
		BL 4 N. 4	

### 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

BC: 480 lb Conc. Load at 37.97

spacing between rows and stagger nails in each row to avoid splitting.

### Special Loads

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 63 plf at 5 plf at 20 plf at 63 plf at 5 plf at 20 plf at TC: From -1.50 to -1.50 to 46.50 BC: From 0.00 BC: From 0.00 to 45.00 BC: From 5 plf at 45.00 to 5 plf at 46.50 214 lb Conc. Load at 7.03 196 lb Conc. Load at 9.06,11.06,13.06,15.06 TC: 17.06 TC: 197 lb Conc. Load at 19.06,21.06,22.50,23.94 25.94,27.94,29.94,31.94,33.94,35.94 291 lb Conc. Load at 37.97 BC: BC: 519 lb Conc. Load at 7.03 123 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06 133 lb Conc. Load at 19.06,21.06,22.50,23.94 25.94,27.94,29.94,31.94,33.94,35.94

**Plating Notes** 

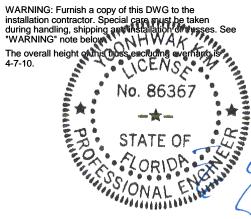
All plates are 2.5X6 except as noted.

### 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



▲ Maximum Reactions (lbs) Gravity

Non-Gravity Loc R+ /Rh /Rw <mark>/U</mark> /RL В 5139 /-/1225 /-5209 /-/-/1231 /-Wind reactions based on MWFRS Brg Width = 3.5Min Req = 1.5В 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 1641 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 Chords Tens Comp

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

### Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp.	vvebs	rens. comp.
C - W	648 - 2698	F-P	796 - 159
X - W	1804 - 428	P-H	2332 - 556
V - D	763 - 134	P-0	4788 - 1139
D - U	1869 - 446	H - O	428 - 1513
U-E	289 - 941	0-1	1028 - 240
E - T	1225 - 282	I - N	297 - 943
T-F	219 - 681	N - J	1726 - 414

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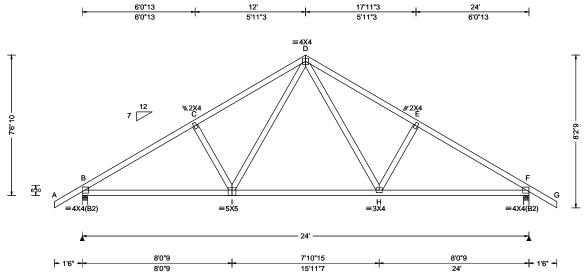
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SEQN: 409965 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T30 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 2 DrwNo: 063.21.1321.37340 Truss Label: C01 / YK 03/04/2021



Ī	▲ Maximum Reactions (lbs)							
l	Gravity				N	lon-Grav	vity	
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	В	1171	/-	/-	/658	/189	/224	
	F	1171	/-	/-	/658	/189	/-	
l	Win	d rea	ctions b	ased o	n MWFRS			
B Brg Width = 3.5 Min Reg = 1.5					;			
l	F	Brg V	Vidth =	3.5	Min Re	eq = 1.5	;	
l	Bea	rings	B&Fa	re a rig	id surface.			
l	Mer	nbers	not list	ed have	e forces les	s than 3	375#	
	Maximum Top Chord Forces Per Ply (lbs)						s)	
	Cho	rds <sup>-</sup>	Tens.Co	omp.	Chords	Tens.	Comp.	
1	B - (	c	280 -	1639	D-E	319	- 1459	
J	Č-i	-		1458	Ē-F	279	- 1640	

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

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



onoras	rens.C	omp.	Choras	rens. (	omp.	
B - I	1324	- 142	H-F	1325	- 142	
- H	912	-5				

### Maximum Web Forces Per Ply (lbs)

/ebs	bs Tens.Comp.		Webs	Tens. C	comp.
- D	559	- 95	D-H	562	-94



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

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

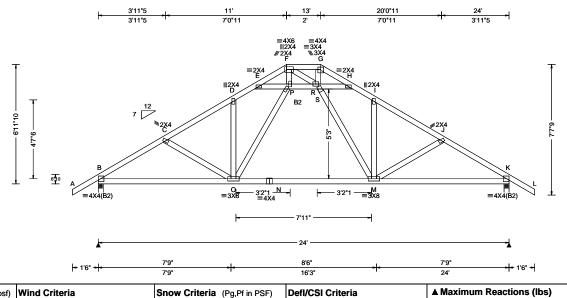
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SEQN: 409966 HIP\_ Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T29 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1321.39177 Qty: 4 Truss Label: C02 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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): 0.088 I 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.168 I 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.039 M
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.074 M
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.861
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.474
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.288
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumber			

### Lumbei

Top chord: 2x4 SP #2;

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

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

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

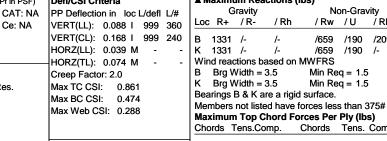
### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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



Maximum Bot Chord Forces Per Ply (lbs)

/Rh

/-

Gravity

1331 /-

1331

C-D

D-E

E-F

F-G

/R

Brg Width = 3.5Brg Width = 3.5

297 - 1978

260 - 1791

320 - 1741

241 - 1378

243 - 1296

Chords	Tens.Com	1p. C	chords 7	Tens. Co	omp.
3-0	1617 - 1	78 N	I - M	1140	-21
N - C	1140 -	21 M	1 - K	1616	- 178

Non-Gravity

/190 /209

/190

Tens. Comp.

320 - 1744

245 - 1372

260 - 1789

297 - 1976

/RL

/Rw /U

Min Req = 1.5

Min Req = 1.5

/659

/659

Chords

H - I

I - J

J - K

Maximum Web Forces Per Ply (lbs)

O-P 751 -94 R-G 618 -8	webs
F-P 632 -73 S-M 755 -9	



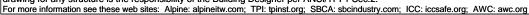
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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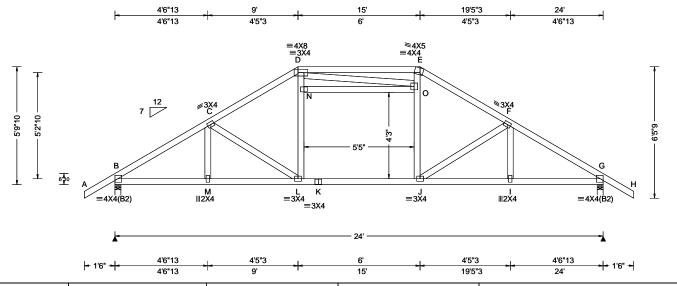
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SEQN: 409967 HIP\_ Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T28 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 4 DrwNo: 063.21.1321.40730 Truss Label: C03 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	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	L B G V B G B M C B
Lumber	Wind Burduon. 1.00	WAVE	VIEW VCI. 20.01.017.0724.11	J C

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity R+ /Rh /Rw /U /RL 1263 /-/194 /179 1263 /-/-/657 /194 /-

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

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

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

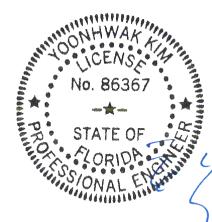
### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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



1	0 .20	0 , ,	,001	, , ,				
ı	Wind reactions based on MWFRS							
ı	B Brg	Width = 3.5	Min Re	eq = 1.5				
ı	G Brg	Width = 3.5	Min Re	eq = 1.5				
ı	Bearings B & G are a rigid surface.							
ı	Members not listed have forces less than 375#							
ı	Maximum Top Chord Forces Per Ply (lbs)							
Chords Tens.Comp. Chords Tens. Cor								
1	B-C	271 - 1785	F-F	278 - 1578				
		279 - 1582		271 - 1787				
	D-E	268 - 1286						
	Maximi	ım Bot Chord F	orces Per	Ply (lhe)				
		Tens.Comp.						

# - 66 Maximum Web Forces Per Ply (lbs)

- 150

1455

1456 - 151

1318

B - M

M - L

L-K

Webs	Tens.Co	omp.	Webs	Tens. C	omp.
L - N	407	-6	O - J	403	-5
D - N	418	-6	O - E	418	-6

I-G

1318

1457

1457

- 66

- 151

- 150

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SEQN: 410004 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T21 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 2 DrwNo: 063.21.1321.51497 Truss Label: C04 / YK 03/04/2021 24' 5' 7' ∥2X4 D **∥6X8** #6X8 4'7"10 5'5"14 **6**₩0 H ∥2.5X6 J ∥2.5X6 =7X8 \_\_\_3X10(A1) =3X10(A1) 24 5 + 1'6" → 12' 17 24' ▲ Maximum Reactions (lbs)

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): 0.074 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.149 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.027 H
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.054 H
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.152
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.245
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.311
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumbor	·	·	·

### Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 2324 /-2324 /-/-/556 /-Wind reactions based on MWFRS Brg Width = 3.5Min Reg = 1.9В 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. 936 - 3800 944 - 3836 C-D 944 - 3836 936 - 3800

Maximum Bot Chord Forces Per Ply (lbs)

Chords

H-F

Webs

1 - E

H-E

Tens. Comp.

Tens. Comp.

- 772

- 773

- 222

0

3207

3185

815

636

Chords Tens.Comp.

J - I

3185 - 773

3207 - 772

Tens.Comp.

815 - 222

636

351 - 642

### Lumber

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

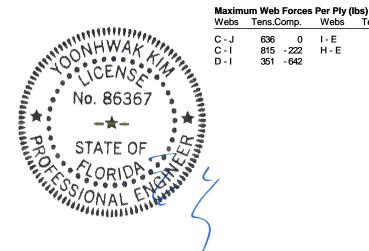
### **Special Loads**

(Lumber	Dur.Fac.=1.	25 / Plate D	Our.Fac.=1.2	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	4.94
BC: 480 lb	Conc. Load	at 7.03,16	.97	
BC: 133 lb	Conc. Load	at 9.06.11	.06.12.94.1	4.94

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



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6750 Forum Drive Suite 305 Orlando FL, 32821

03/04/2021

SEQN: 410005 HIPS Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T57 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1321.57567 Truss Label: C05 / YK 03/04/2021 24' 5' ∥2X4 D ₩6X8 5'5"14 **6**₩0 K ∥2.5X6 =6X8 =5X5(A1) ≡5X6(A1) 5 + 1'6" → 12' 17 24' ▲ Maximum Reactions (lbs)

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): 0.078 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.157 D 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.026 H
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.052 H
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.287
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.689
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumber			

### Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 2461 /-/535 /-2062 /-/423 /-Wind reactions based on MWFRS Brg Width = 3.5Min Reg = 2.0В 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. 897 - 4074 864 - 4149 865 - 4150 682 - 3301

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

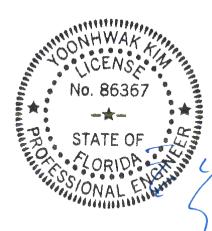
### Special Loads

opeciai Loa	us			
(Lumber	Dur.Fac.=1	.25 / Plate [	Dur.Fac.=1.2	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		
	Conc. Load		.06	
BC: 1094 lb	Conc. Load	at 11.88		

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



# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		ords Tens.Comp. Chords		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)

AA GD2	rens.comp.		veus rens.com		W CD2	i elis. v	Junp.
C - K C - I	683 915	0 - 161			- 430 - 407		
<b>U</b> 1	313	.01		1000	-101		

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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 410006 SPEC Ply: 2 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T62 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.23150 FROM: CDM Qty: 1 Truss Label: C06 03/04/2021 / YK 2 Complete Trusses Required 19'5"3 3'10"8 5'5"3 4'6"13 ≡4X4 ≡3X4 |||2X4 G |||2X4 5'9", B1 S R ⊪4X8 =3X4 \_\_\_\_O ≡3X4 N ∥2X4 =3X4 **Ⅲ3X4** 3'10"8 4'6"13 4'5"3 + 1'6" + Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Non-Gravity Wind Std: ASCE 7-16 Ct: NA CAT: NA Gravity TCLL: 20.00 Pg: NA PP Deflection in loc L/defl L/# Loc R+ /R /Rh /Rw / U /RL Speed: 130 mph TCDL: 10.00 Pf: NA VERT(LL): 0.304 E 939 360 Ce: NA Enclosure: Closed VERT(CL): 0.600 E BCII: 0.00 Lu: NA Cs: NA 476 240 В 2613 /-/318 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): 0.130 D /-/-1509 /240 EXP: C Kzt: NA Wind reactions based on MWFRS HORZ(TL): 0.257 D Des Ld: 40.00 Mean Height: 15.00 ft Brg Width = 3.5В Min Rea = 1.5**Building Code:** Creep Factor: 2.0 NCBCLL: 0.00 TCDL: 5.0 psf Brg Width = 3.5 Min Req = 1.5FBC 7th Ed. 2020 Res. Max TC CSI: 0.845 Soffit: 2.00 BCDL: 5.0 psf Bearings B & L are a rigid surface. TPI Std: 2014 Max BC CSI: 0.521 Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Rep Fac: Varies by Ld Case Max Web CSI: 0.789 Spacing: 24.0 ' C&C Dist a: 3.00 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:20(0)/10(0) Loc. from endwall: not in 9.00 ft Chords Tens.Comp. Chords Tens. Comp. Plate Type(s): GCpi: 0.18 217 - 2009 Wind Duration: 1.60 VIEW Ver: 20.01.01A.0724.11 WAVE C - D 171 - 1414 G-J 77 - 499 Lumber Special loads D-E 131 - 1101 H - I - 737 82 --(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) Top chord: 2x4 SP #2: E-F 133 - 1100 J - K - 1097 144 Bot chord: 2x4 SP M-31; B1 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W7 2x4 SP M-31; 23 plf at 40 plf at 23 plf at TC: From -1.50 to 23 plf at 40 plf at 7.00 From 23 ph T: From 23 ph T: From 5 plf at 14.00 T: From 50 plf at 9.29 to BC: From 50 plf at 9.29 to BC: From 5 plf at -1.50 to 5 ph T: BC: From 5 plf at 24.00 to 15 plf at 25.50 BC: 1611 lb Conc. Load at 3.94 BC: 16 lb Conc. Load at 3.94 WARD C: 21 lb Conc. Load at 4.47 Max W. S. C. 21 lb Conc. L F-G 66 - 436 K-L 155 - 1070 Maximum Bot Chord Forces Per Ply (lbs) **Nailnote** Chords Tens.Comp. Chords Tens. Comp. Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. B-S 1693 - 175 P - O 879 - 120 S - R 1685 - 175 O - N 879 - 120 :1 Row @ 4" o.c. - 119 R - Q 1214 - 140 N-I 876 Use equal spacing between rows and stagger nails Q-P 1100 - 133 in each row to avoid splitting. Loading Maximum Web Forces Per Ply (lbs) BC attic loading: LL = 20.00 psf; DL = 5.00 psf; from Webs Tens.Comp. Webs Tens. Comp. 9-3-8 to 14-8-8. S-C D-R 718 C - R -602 G - H 470 -61 **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.

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

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

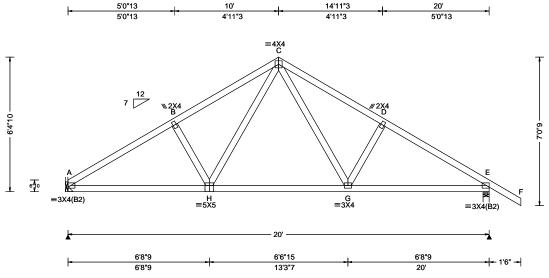
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 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	A E E N M C A
Lumber	•			_ E

▲ Maxi	▲ Maximum Reactions (lbs)							
	Gravity		No.	on-Gra	vity			
Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL	_		
A 872	2 /-	/-	/477	/9	/178			
E 982	2 /-	/-	/563	/16	/-			
Wind re	eactions b	ased on	MWFRS					
A Bro	Width =	-	Min Re	eq = -				
E Bro	Width =	3.5	Min Re	q = 1.	5			
Bearing	Eisario	gid surfa	ce.	-				
Membe	rs not list	ed have	forces les	s than	375#			
Maxim	Maximum Top Chord Forces Per Ply (lbs)							
Chords	Tens.Co	omp.	Chords	Tens.	Comp.			
A - B	49 -	1327	C - D	79	- 1165	_		
B-C	-	1178	D-E	48				

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

### Hangers / Ties

(J) Hanger Support Required, by others

### Loading

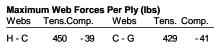
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind 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.



Maximum Bot Chord Forces Per Ply (lbs)

- 79

Chords

G - E

Tens. Comp.

0

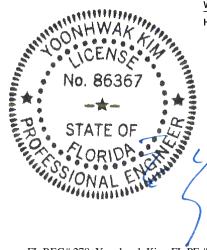
1054

Chords Tens.Comp.

H - G

1072

737



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

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

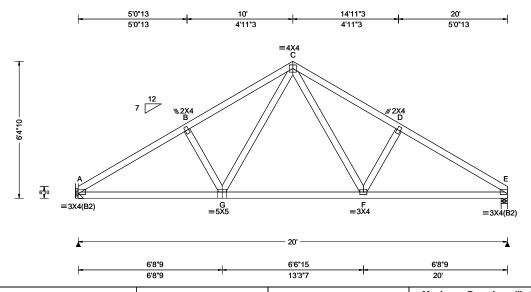
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SEQN: 409969 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T44 FROM: CDM Qty: 1 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.26877 Truss Label: D02 / YK 03/04/2021



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (It	bs)
TCLL: 20.00 Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.047 F 999 360	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.092 F 999 240	A 876 /- /-	/477 /9 /150
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.023 F	E 876 /- /-	/477 /9 /-
Des Ld: 40.00 EXP: C Kzt: NA		HORZ(TL): 0.045 F	Wind reactions based on M	//WFRS
NCBCLL: 10.00 Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0	A Brg Width = -	Min Req = -
Soffit: 2.00 BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.360	E Brg Width = 3.5	Min Req = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.522	Bearing E is a rigid surface Members not listed have for	
Spacing: 24.0 " C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.172	Maximum Top Chord For	
Loc. from endwall: not in 9.00 ft			•	Chords Tens. Comp.
GCpi: 0.18	Plate Type(s):		1	
Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11		C - D 81 - 1186
Lumber			B-C 81 - 1185 [	D-E 49 -1336

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

### Hangers / Ties

(J) Hanger Support Required, by others

### Loading

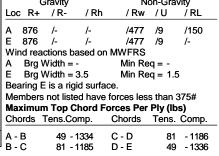
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind 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.

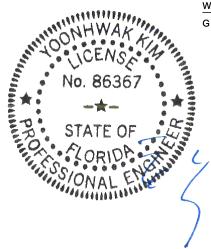


### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

A - G 1078 F-E 1079 0 G-F 743

### Maximum Web Forces Per Ply (lbs)

/ebs	Tens.C	omp.	Webs	Tens. C	omp.
i - C	449	- 41	C-F	450	- 44



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

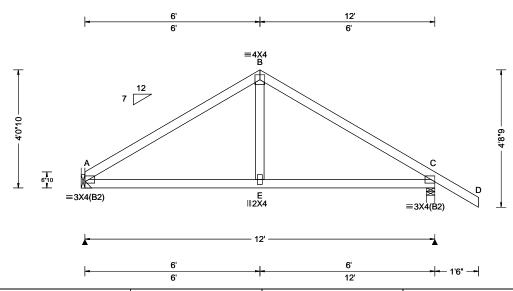
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 409970 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T33 FROM: CDM DrwNo: 063.21.1322.28907 Qty: 3 Senn Res.- 52" Celiing fan in both Garages Truss Label: G01 / YK 03/04/2021



TCLL: 20.00 TCDL: 10.00 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 Pf: NA Ce: NA Ce: NA VERT(LL): 0.007 E 999 360 VERT(CL): 0.015 E 999 240 VERT(CL): 0.015 E 999 240 VERT(CL): 0.004 E HORZ(TL): 0.004 E HORZ(TL): 0.008 E Smow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes Max TC CSI: 0.366 Max Web CSI: 0.366 Max Web CSI: 0.100 VERT(CL): 0.007 E 999 360 VERT(CL): 0.008 E HORZ(TL): 0.008 E Creep Factor: 2.0 Max TC CSI: 0.366 Max Web CSI: 0.100 FT/RT:20(0)/10(0) Pf: NA Ct: NA CAT: NA VERT(LL): 0.007 E 999 360 VERT(CL): 0.008 E P HORZ(TL): 0.008 E - P	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Wind Duration: 1.60   WAVF   VIEW Ver: 20.01.01A.0724.11	TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	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	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)	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
		Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

▲ M	▲ Maximum Reactions (lbs)							
	G	ravity		N	on-Grav	vity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
Α	492	/-	/-	/285	/78	/117		
С	608	/-	/-	/374	/108	/-		
Win	Wind reactions based on MWFRS							
Α	Brg V	/idth =	:-	Min Re	eq = -			
С	Brg V	/idth =	: 3.5	Min Re	q = 1.5	;		
Bea	ring C	is a ri	gid surfa	ice.	-			
				forces les	s than 3	375#		
Max	Maximum Top Chord Forces Per Ply (lbs)							
Cho	rds T	ens.C	omp.	Chords	Tens.	Ćomp.		
A - E	3	117	- 605	B - C	118	- 610		

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens. Comp.

446

Chords Tens.Comp.

446

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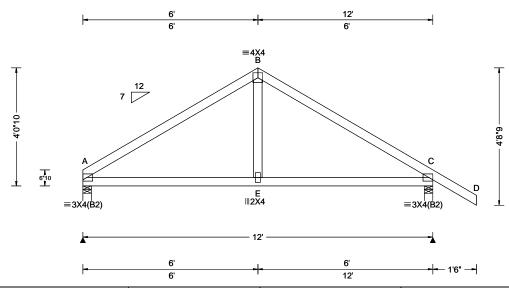
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SEQN: 409971 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T10 FROM: CDM DrwNo: 063.21.1322.30460 Qty: 1 Senn Res.- 52" Celiing fan in both Garages Truss Label: G02 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		os)
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): 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	Gravity  Loc R+ /R- /Rh  A 492 /- /- C 608 /- /- Wind reactions based on M A Brg Width = 3.5 C Brg Width = 3.5 Bearings A & C are a rigid Members not listed have for Maximum Top Chord For Chords Tens.Comp. (	Non-Gravity / Rw / U / /285 /78 /1 /374 /108 /- /WFRS Min Req = 1.5 Min Req = 1.5 surface. cross less than 375
Lumber	· ·			Maximum Bot Chord For	ces Per Ply (lbs)

▲ Maximum Reactions (lbs)							
(	Gravity		N	on-Grav	vity		
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
A 492	/-	/-	/285	/78	/117		
C 608	/-	/-	/374	/108	/-		
Wind rea	ctions b	ased on	MWFRS				
A Brg	Width =	3.5	Min Re	q = 1.5	5		
C Brg	Width =	3.5	Min Re	q = 1.5	5		
Bearings	A&Ca	re a rigi	id surface.	-			
Members	not liste	ed have	forces les	s than 3	375#		
Maximum Top Chord Forces Per Ply (lbs)							
Chords	Tens.Co	mp.	Chords	Tens.	Ćomp.		
A - B	117	- 605	B - C	118	-610		

Chords Tens. Comp.

446

Chords Tens.Comp.

446

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

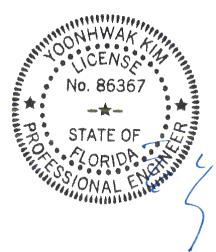
### Wind

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



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

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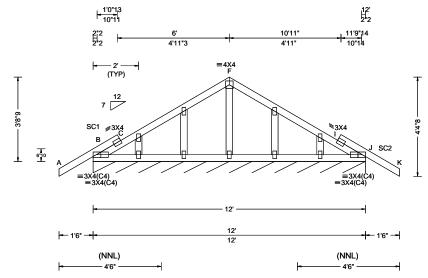
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SEQN: 409972 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T22 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.33090 FROM: CDM Qty: 1 Truss Label: G03 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	<b>A</b>
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	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: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 P 999 360 VERT(CL): 0.004 P 881 240 HORZ(LL): 0.001 I HORZ(TL): 0.002 I Creep Factor: 2.0 Max TC CSI: 0.327 Max BC CSI: 0.122 Max Web CSI: 0.032  VIEW Ver: 20.01.01A.0724.11	
Lumber				

▲ Maximum Reactions (lbs), or *=PLF							
Gravity				Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ /U	/ RL	
J* 1	51	/-	/-	/67	/-	/6	
Wind reactions based on MWFRS							
JE	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)							
Chor	ds	Tens.C	omp.	Chords	Tens	. Comp.	
B - C	:	477	- 495	I-J	47	7 - 493	

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 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.



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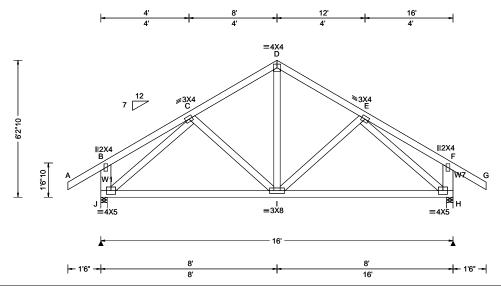
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SEQN: 409973 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T48 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1322.34740 Truss Label: H01 / YK 03/04/2021



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: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	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):	PP Deflection in loc L/defl L/# VERT(LL): 0.013 I 999 360 VERT(CL): 0.026 I 999 240 HORZ(LL): 0.007 F HORZ(TL): 0.015 F Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.635 Max Web CSI: 0.335
		Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)							
(	avity		No	on-Grav	vity		
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
J 767	/-	/-	/456	/134	/164		
H 767	/-	/-	/456	/134	/-		
Wind read	ctions b	ased on	MWFRS				
J Brg V	Vidth =	3.5	Min Re	Min Req = 1.5			
H Brg \	Vidth =	3.5	Min Re	Min Req = 1.5			
Bearings	Ј&На	re a rigi	d surface.	-			
Members	not liste	ed have	forces less	s than 3	375#		
Maximum Top Chord Forces Per Ply (lbs)							
Chords -	Tens.Co	omp.	Chords	Tens.	Ćomp.		
C-D	162	- 611	D-E	162	- 611		

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

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

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.

The overall height of this truss excluding overhang is

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 540

### Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs 112 - 643 E - H 112 - 643



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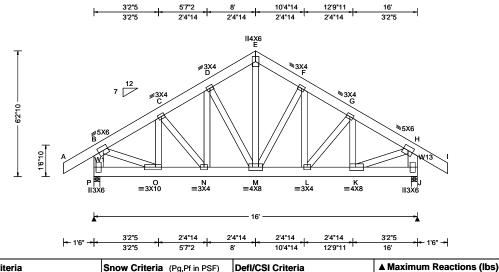
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SEQN: 409996 COMN Ply: 2 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T14 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.36227 FROM: CDM Qty: 1 Truss Label: H02 / YK 03/04/2021

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 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	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):	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
Lumber	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

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) -1.50 to 63 plf at TC: From 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 1 BC: 1021 lb Conc. Load at 0.94, 2.94, 4.94, 6.94 17.50 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.



### Non-Gravity Gravity Loc R+ /R /Rh /Rw /U /RL Р 4848 /-/364 5067 /-/-/-/365 Wind reactions based on MWFRS Brg Width = 3.5Min Req = 2.0Brg 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. 172 - 2445 138 - 1959 C - D 164 - 2335 F-G 165 - 2365 D-E G-H 174 - 2540 138 - 1959

# 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 rens.Con		omp.	mp. webs rens.		
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
F - M	1712	- 04			

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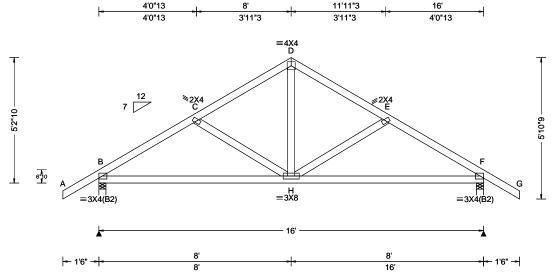
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SEQN: 409974 COMN Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T23 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 3 DrwNo: 063.21.1322.38100 Truss Label: H03 / YK 03/04/2021



Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		
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 BWFRS 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): 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		
Lumber				_	

▲ Maxi	▲ Maximum Reactions (lbs)							
	Gravity		N	on-Grav	/ity			
Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL			
B 767	7 /-	/-	/468	/133	/164			
F 767	7 /-	/-	/468	/133	/-			
Wind re	eactions b	ased on	<b>MWFRS</b>					
B Bro	width =	3.5	Min Req = 1.5					
F Br	Width =	3.5	Min Req = 1.5					
Bearing	sB&Fa	are a rigio	d surface.	•				
Membe	rs not list	ted have	forces les	s than 3	375#			
Maxim	Maximum Top Chord Forces Per Ply (lbs)							
Chords	Chords Tens.Comp.			Tens.	Ćomp.			
B-C	190	- 916	D-E	154	- 697			
C-D	154	- 697	E-F	190	- 916			

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

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

725 - 86 725 -86

### Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

D-H 431



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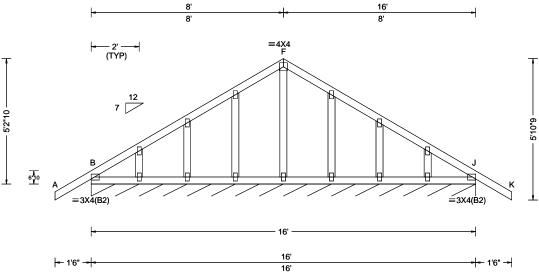
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 409975 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T46 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1322.39800 Truss Label: H04 / YK 03/04/2021



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 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 D
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.033
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.067
-	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
1			

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rw /U /RL J\* 96 /-/49 Wind reactions based on MWFRS 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



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

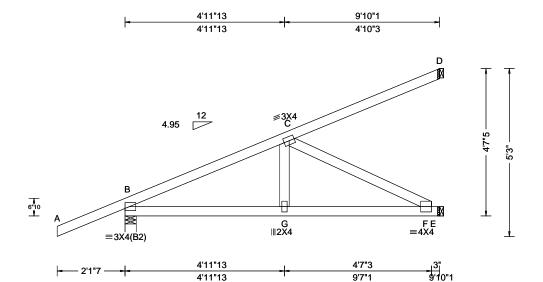
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SEQN: 409997 HIP\_ Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T32 Senn Res.- 52" Celiing fan in both Garages FROM: CDM Qty: 7 DrwNo: 063.21.1322.41713 Truss Label: HJ1 / YK 03/04/2021



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): 0.026 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.051 G 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.008 D
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.015 D
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.704
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.712
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.346
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

### 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) 0.00 TC: From TC: From 0 plf at -2.12 to 0.00 to 62 plf at 2 plf at 0 plf at 2 plf at 9 84 BC: From -2.12 to 4 plf at 0.00 2 plf at 0.00 to BC: From 2 plf at -41 lb Conc. Load at 1.38 134 lb Conc. Load at 4.21 270 lb Conc. Load at 7.03 23 lb Conc. Load at 1.38 TC: 108 lb Conc. Load at 4.21 187 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

Chords Tens.Comp. B - C 229 - 629

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS Brg Width = 4.2

Brg Width = 1.5

Brg Width = 1.5

Bearing B is a rigid surface.

Loc R+

93

В 367

Е 347 /-

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

B - G 582 - 186 G-F 573 - 187

Non-Gravity

/186 /-

/81 /-

/40 /-

Min Req = 1.5

Min Req = -

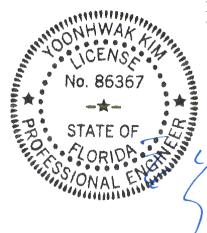
Min Rea = -

/RL

/Rw /U

### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. C-F 211 - 645



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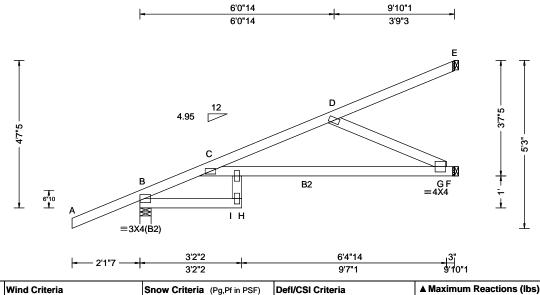
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SEQN: 409998 HIP\_ Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T61 FROM: Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1322.43317 Truss Label: HJ2 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
1.0220.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.231 H 507 360
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.402 H 291 240
10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.087 I
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft	5 7 7 0 1	HORZ(TL): 0.170 I
	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.940
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.461
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.315
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

# Lumber

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

### **Special Loads**

(1 1	ımher D	ur Fac =1	25 / Plate Γ	Our.Fac.=1.2	5)
			-2.12 to		0.00
				2 plf at	9.84
				4 plf at	0.00
BC: F	rom	2 plf at	0.00 to	2 plf at	9.84
TC:	-41 lb Co	onc. Load	at 1.38	•	
TC:	137 lb C	onc. Load	at 4.21		
TC:	270 lb C	onc. Load	at 7.03		
		onc. Load			
		onc. Load			
BC:	164 lb C	onc. Load	at 7.03		

### **Plating Notes**

All plates are 2X4 except as noted.

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

PP Deflection in loc L/defl L/#					(	3ravity		No
VERT(LL):	0.231 H	507	360	Loc	R+	/ R-	/ Rh	/ Rw
VERT(CL):	0.402 H	291	240	В	367	/-	/-	/-
HORZ(LL):	0.087 I	-	-	F	397	/-	/-	/-
HORZ(TL):	0.170 I	-	-	E	19	/-	/-	/-
Creep Facto	or: 2.0			Wir	id rea	ctions b	ased on I	MWFRS
Max TC CSI	l: 0.940	)		В	Brg \	Width =	4.2	Min Re
Max BC CS				F	Brg \	Width =	1.5	Min Re
				Ε	Brg \	Width =	1.5	Min Re
Max Web CSI: 0.315			Bea	ıring E	3 is a rig	gid surface	e.	
				Mei	nhers	not list	ed have f	orces less

Chords Tens.Comp.

C-D

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

C - I 554 - 202 1 - G 589 - 262

Non-Gravity

/184 /-

/109 /-

/9

Min Req = 1.5

Min Req = -

Min Rea = -

/RL

/Rw /U

### Maximum Web Forces Per Ply (lbs)

270 - 598

Webs	Tens.Comp.	
D - G	290 - 645	



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

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

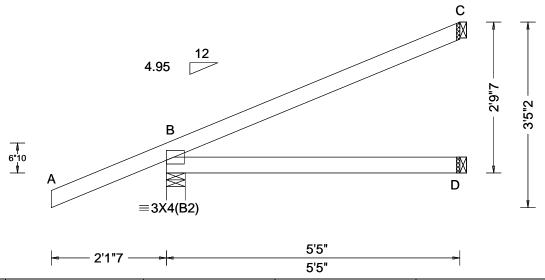
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SEQN: 409999 HIP\_ Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T37 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1322.45290 Truss Label: HJ3 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
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	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):	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	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber	•	•		•

AI	▲ Maximum Reactions (Ibs)						
	G	avity		No	on-Gra	vity	
Lo	c R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	236	/-	/-	/-	/45	/-	
D	100	/-	/-	/3	/-	/-	
С	53	/-	/-	/-	/12	/-	
Wi	nd read	ctions b	ased on I	<b>MWFRS</b>			
В	Brg V	Vidth =	4.2	Min Re	q = 1.5	5	
D	Brg V	Vidth =	1.5	Min Re	q = -		
С	Brg V	Vidth =	1.5	Min Re	q = -		
Be	aring E	is a rig	gid surface	Э.			
Me	embers	not list	ed have fo	orces les	s than	375#	

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

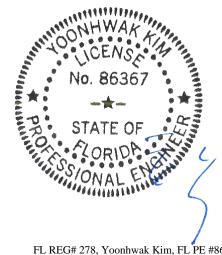
# **Special Loads**

---(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 plf at 2 plf at 0.00 to -2.12 to 2 plf at 4 plf at 5.42 0.00 BC: From BC: From 0.00 to 2 plf at 36 lb Conc. Load at 2.57 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.

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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SEQN: 409976 FROM: CDM

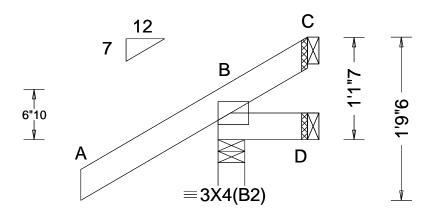
**JACK** Ply: 1 Qty: 16

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)	DefI/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): -0.001 C
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 C
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.027
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
' "	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 237 /-/186 /44 D 12 /-6 /-/11 /-/-48 /32 /48 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 1.5 Min Req = -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 loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



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

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

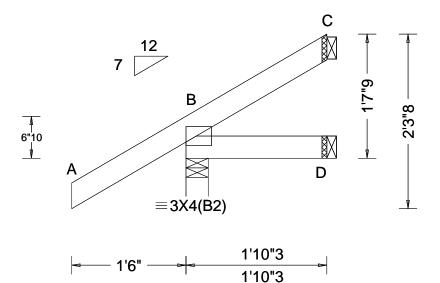
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SEQN: 409977 **JACK** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T42 FROM: CDM DrwNo: 063.21.1322.46943 Qty: 2 Senn Res.- 52" Celiing fan in both Garages Truss Label: J1A / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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 EXP: C Kzt: NA	Snow Duration: NA	HORZ(LL): -0.001 C
Des Ld: 40.00	Mean Height: 15.00 ft		HORZ(TL): 0.002 C
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.029
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumber			

▲ Maximum Reactions (lbs) Gravity Non-Gravity						
Loc R+		/ Rh		/ U	/ RL	
B 228	/-	/-	/170	/36	/62	
D 31	/-	/-	/20	/-	/-	
C 18	/-	/-	/27	/22	/-	
Wind rea	ctions b	ased on I	MWFRS			
B Brg \	Nidth =	3.5	Min Re	q = 1.5	5	
D Brg\	Nidth =	1.5	Min Re	q = -		
C Brg \	Nidth =	1.5	Min Re	q = -		
Bearing B is a rigid surface.						
Members	_			s than	375#	

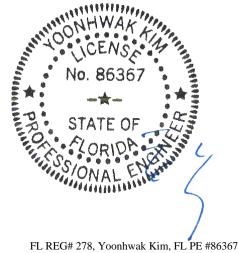
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



03/04/2021

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

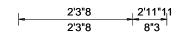
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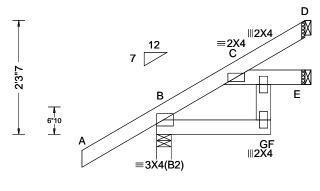
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6750 Forum Drive Suite 305 Orlando FL, 32821

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







L 1'6" -L	2'3"8	8"3_
T 10	2'3"8	2'11"11

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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): 0.004 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.008 G 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 G
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.005 G
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.182
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.047
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.032
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumber			

▲ Maximum Reactions (lbs)							
		G	avity		No	on-Gra	vity
L	oc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Е	3	257	/-	/-	/184	/31	/85
E	=	43	/-	/-	/28	/-	/-
[	)	69	/-	/-	/44	/38	/-
٧	۷in	d rea	ctions b	ased on I	MWFRS		
E	3	Brg V	Vidth =	3.5	Min Re	q = 1.5	5
E	=	Brg \	Vidth =	1.5	Min Re	q = -	
[			Vidth =		Min Re	q = -	
E	3ea	ring E	is a rig	id surfac	e.	-	
N	Иeп	nbers	not list	ed have f	orces les	s than	375#

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



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

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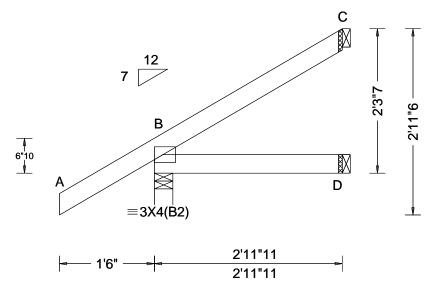
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SEQN: 409979 **JACK** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T25 FROM: CDM DrwNo: 063.21.1322.48460 Qty: 14 Senn Res.- 52" Celiing fan in both Garages Truss Label: J3 / YK 03/04/2021



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	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):	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	L B D C W B D C B M
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber				

	▲ Maximum Reactions (Ibs)						
		G	Gravity		No	on-Gra	vity
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	В	257	/-	/-	/184	/31	/85
	D	54	/-	/-	/31	/-	/-
	С	67	/-	/-	/40	/44	/-
	Wi	nd read	ctions b	ased on N	/WFRS		
	В	Brg V	Vidth =	3.5	Min Re	q = 1.3	5
	D	Brg V	Vidth =	1.5	Min Re	q = -	
	С	Brg V	Vidth =	1.5	Min Re	q = -	
	Be	aring B	is a rig	id surface	€.	-	
	Ме	mbers	not list	ed have fo	orces less	s than	375#
_							

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

Wind loads based on MWFRS with additional C&C

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

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

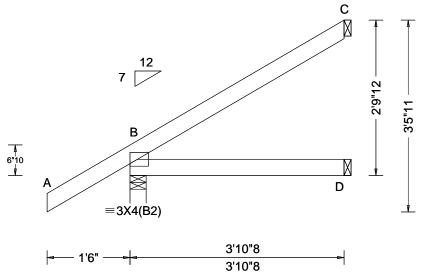
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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): 0.002 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
Lumber		1	•

	▲ Maximum Reactions (lbs)								
		(	3ravity		Non-Gravity				
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
	В	287	/-	/-	/202	/30	/103		
	D	72	/-	/-	/40	/-	/-		
	С	99	/-	/-	/62	/60	/-		
Wind reactions based on MWFRS									
	В	Brg \	Nidth =	3.5	Min Re	q = 1.5	5		
	D	Brg \	Nidth =	1.5	Min Reg = -				
	С	Brg \	Nidth =	1.5	Min Re	q = -			
	Bea	aring E	3 is a rig	jid surface	е.				
	Mei	mbers	not list	ed have fo	orces less	s than	375#		
_									

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

Wind loads based on MWFRS with additional C&C

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

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

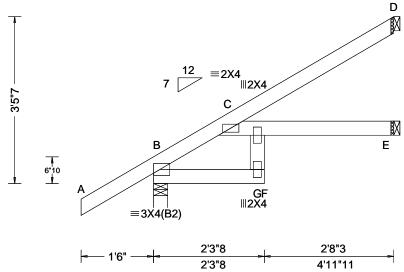
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

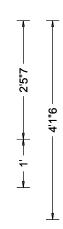
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SEQN: 409981 **JACK** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T59 FROM: Senn Res.- 52" Celiing fan in both Garages Qty: 2 DrwNo: 063.21.1322.50140 Truss Label: J4 / YK 03/04/2021





Loading Criteria (psf)	Wind Criteria Snow Criteria (Pg,Pf in		DefI/CSI Criteria	4
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): 0.040 F 999 360 VERT(CL): 0.079 F 741 240 HORZ(LL): 0.025 G HORZ(TL): 0.049 G Creep Factor: 2.0 Max TC CSI: 0.367 Max BC CSI: 0.207 Max Web CSI: 0.138  VIEW Ver: 20.01.01A.0724.11	

▲ Max	▲ Maximum Reactions (lbs)							
	Gra	avity		· N	lon-Grav	/ity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
В 3	28	/-	/-	/226	/30	/126		
E 8	2	/-	/-	/47	/-	/-		
D 1	35	/-	/-	/90	/70	/-		
Wind	reacti	ions ba	sed on M	WFRS	;			
в в	rg Wi	idth = 3	.5	Min R	eq = 1.5	;		
E B	rg Wi	idth = 1	.5	Min R	eq = -			
D B	rg Wi	idth = 1	.5	Min R	eq = -			
Bearin	ng Bi	s a rigio	surface.		•			
Memb	ers n	ot listed	d have for	ces les	ss than 3	375#		
1								

### Lumber

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

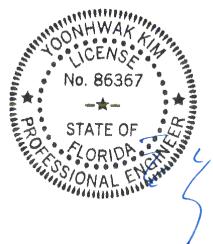
### Wind

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



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

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

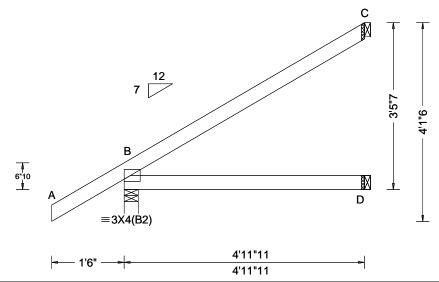
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SEQN: 409982 **JACK** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T24 FROM: CDM DrwNo: 063.21.1322.50890 Qty: 14 Senn Res.- 52" Celiing fan in both Garages Truss Label: J5 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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	
Lumber				-

	▲ Maximum Reactions (lbs)						
		Gravity			Non-Gravity		
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	В	328	/-	/-	/226	/30	/126
	D	94	/-	/-	/51	/-	/-
	С	135	/-	/-	/87	/78	/-
	Wir	nd read	ctions b	ased on N	<b>MWFRS</b>		
	В	Brg V	Vidth =	3.5	Min Req = 1.5		
	D	Brg V	Vidth =	1.5	Min Reg = -		
	С	Brg V	Vidth =	1.5	Min Re	q = -	
	Bearing B is a rigid surface				э.		
	Mei	mbers	not list	ed have fo	orces less	s than	375#
_	l						

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

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.



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

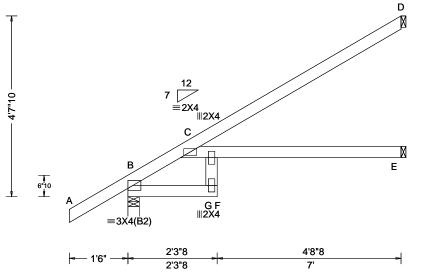
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SEQN: 409983 **EJAC** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T35 FROM: CDM Qty: 6 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.51590 Truss Label: J6 / YK 03/04/2021



		238	7
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 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): 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
Lumban			

▲ Maximum Reactions (lbs)							
	G	ravity		No	on-Grav	/ity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	407	/-	/-	/274	/30	/168	
Ε	123	/-	/-	/72	/-	/-	
D	196	/-	/-	/130	/102	/-	
Win	d read	ctions b	ased on I	<b>MWFRS</b>			
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	;	
Е	Brg V	Vidth =	1.5	Min Re	g = -		
D	Brg V	Vidth =	1.5	Min Re			
Bea	ıring B	is a rig	id surface	е.	•		
Mer	nbers	not liste	ed have fo	orces less	s than 3	375#	

3'7"10

53"9

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



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

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

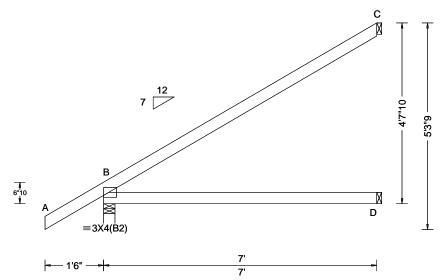
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SEQN: 409984 **EJAC** Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T27 FROM: CDM DrwNo: 063.21.1322.52307 Qty: 46 Senn Res.- 52" Celiing fan in both Garages Truss Label: J7 / YK 03/04/2021



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: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18	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):	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.011 D HORZ(TL): 0.022 D Creep Factor: 2.0 Max TC CSI: 0.795 Max BC CSI: 0.550 Max Web CSI: 0.000
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11
Lumber			

(	ravity	ctions (I	Non-Gravity		
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B 407	/-	/-	/274	/30	/168
D 133	/-	/-	/73	/-	/-
C 197	/-	/-	/129	/111	/-
Wind rea	ctions b	ased on I	MWFRS		
B Brg \	Vidth =	3.5	Min Re	q = 1.5	5
D Brg\	Vidth =	1.5	Min Re	q = -	
C Brg \	Vidth =	1.5	Min Re	q = -	
Bearing E	is a rig	id surfac	e.	-	
_	_		orces les	s than 3	375#

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



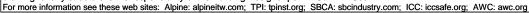
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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

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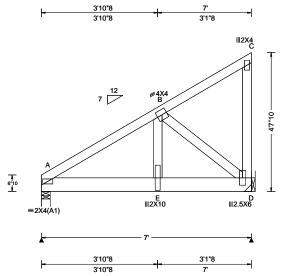
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SEQN: 410000 MONO Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T31 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.53000 Qty: 1 Truss Label: J7A / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.010 E 999 360	<u>L</u>
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.019 E 999 240	1
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.004 C	[
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf BWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0)	HORZ(TL): 0.008 C Creep Factor: 2.0  Max TC CSI: 0.164  Max BC CSI: 0.204  Max Web CSI: 0.365	V A E N
	GCpi: 0.18	Plate Type(s):		<b>∐</b> `
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	1
Lumber		•	•	-

	▲ Maximum Reactions (lbs)							
		Gravit	ty	No	on-Grav	vity		
,	Loc R	+ /R	- / Rh	/ Rw	/ U	/ RL		
)	A 89	4 /-	/-	/-	/168	/-		
	D 10	94 /-	/-	/-	/199	/-		
	Wind re	eaction	s based on	MWFRS				
	A Br	A Brg Width = 3.5			Min Req = 1.5			
	D Br	g Width	) = -	Min Re	q = -			
	Bearing	g A is a	rigid surfac	ce.				
	Membe	ers not	listed have	forces less	s than 3	375#		
	Maxim	um To	p Chord Fo	orces Per	Ply (lb	s)		
	Chords	Tens	.Comp.	_				
	A - B	20	5 - 1070					

## Lumbe

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 a BC: From 10 plf at 0.00 to 10 plf a BC: 492 lb Conc. Load at 2.06, 4.06, 6.06 63 plf at 10 plf at 7 00

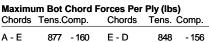
# Hangers / Ties

(J) Hanger Support Required, by others

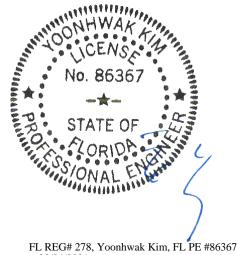
Wind loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is



### Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs 958 - 127 B-D 200 - 1089



03/04/2021

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

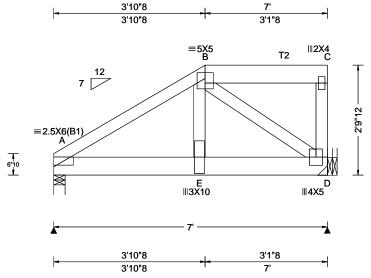
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SEQN: 410001 HIPM Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T63 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1322.54230 Truss Label: J7B / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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 Stid: 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): 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 (Ibs)								
	G	avity		No	on-Grav	vity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
Α	1918	/-	/-	•	/102	•		
D	1611	/-	/-	/-	/112	/-		
Win	d rea	ctions ba	sed on I	<b>MWFRS</b>				
Α	Brg \	Vidth = 3	.5	Min Req = 1.6				
D	D Brg Width = -			Min Req = -				
Bea	ring A	is a rigid	d surface	Э.				
Men	nbers	not listed	d have fo	orces less	s than 3	375#		
Maximum Top Chord Forces Per Ply (lbs)								
Cho	rds <sup>-</sup>	Tens.Cor	np.		• •	•		
A - I	3	120 - 1	983					

### 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 D	Our.Fac.=1.2	25)
		63 plf at			
		32 plf at			
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	
		Conc. Load			
BC:	72 lb	Conc. Load	at 3.94, 5.	94	

### Hangers / Ties

(J) Hanger Support Required, by others

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

WIND LOAD CASE MODIFIED!

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - E 1664 1554

### Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs E-B 1813 B-D 106 - 1945



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

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

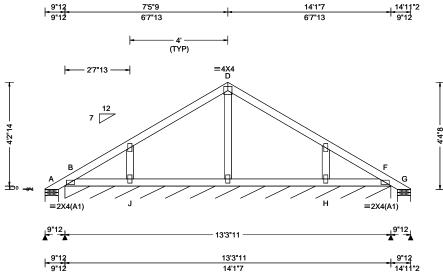
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 409985 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T19 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 16 DrwNo: 063.21.1322.56050 Truss Label: P01 / 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: 19.50 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	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):	PP Deflection in loc L/defl L/# VERT(LL): 0.001 D 999 360 VERT(CL): 0.001 D 999 240 HORZ(LL): 0.001 E HORZ(TL): 0.001 E Creep Factor: 2.0 Max TC CSI: 0.205 Max BC CSI: 0.066 Max Web CSI: 0.060  VIEW Ver: 20.01.01A.0724.11
Lumbor	1.00	WAVE	

	▲ Maximum Reactions (lbs), or *=PLF								
		G	ravity	-	No	on-Gra	vity		
0	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
ю	Α	20	/-	/-	/60	/56	/115		
-	В*	69	/-	/-	/49	/27	/-		
-	G	20	/-	/-	/8	/9	/-		
	J		/-167						
	Н		/-167						
	Wir	nd read	ctions b	ased on N	<b>MWFRS</b>				
	Α	Brg V	Vidth =	6.5	Min Re	q = 1.5	5		
	B Brg Width = 159			159	Min Reg = -				
	G	Brg V	Vidth =	6.5	Min Re	q = 1.5	5		
	Bea	arings	A, B, &	G are a r	igid surfa	ce.			
	Me	mbers	not liste	ed have fo	orces les	s than	375#		

### Lumbei

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.

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.



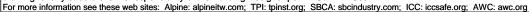
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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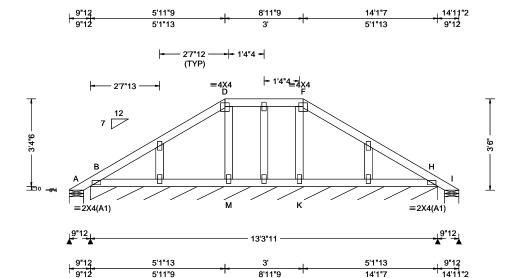
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SEQN: 409986 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T17 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 2 DrwNo: 063.21.1322.58147 Truss Label: P02 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	T
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 N 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 N 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 G	
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 19.06 ft		HORZ(TL): 0.001 G	
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.080	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.034	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.033	
-	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber	•	•		_

▲ Maximum Reactions (lbs), or *=PLF								
	G	ravity		No	on-Gra	vity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
Α	4	/-	/-	/52	/47	/93		
В*	72	/-	/-	/51	/8	/-		
I	4	/-	/-	/5	/0	/-		
Win	nd read	ctions b	ased on N	<b>MWFRS</b>				
Α	Brg V	Vidth =	6.5	Min Re	q = 1.5	5		
В	Brg V	Vidth =	159	Min Re	Min Reg = -			
I	Brg V	Vidth =	6.5	Min Re	q = 1.5	5		
Bearings A, B, & I are a rigid surface.								
Mer	mbers	not liste	ed have fo	orces les	s than	375#		

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.

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.



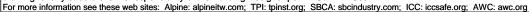
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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SEQN: 409987 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T15 FROM: CDM Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1322.59613 Qty: 2 Truss Label: P03 / YK 03/04/2021 3'11"9 10'11"9 14'1"7 14'11"2 9"12 3'1"13 3'1"13 7 ≡4X4 F =2X4(A1) =2X4(A1) 13'3"11 9"12 3'1"13 3'1"13 3'11"9 10'11"9 14'1"7 14'11"2

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	l
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 E 999 360	ı
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 E 999 240	ı
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 J	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 J	
NCBCLL: 10.00	Mean Height: 18.48 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.177	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.045	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.053	
, ,	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
Lumber		•	•	-

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL Α /-2 /36 /60 В\* 73 /49 /-/9 /-2 /5 /3 Wind reactions based on MWFRS Brg Width = 6.5 Min Req = 1.5 Brg Width = 159 Min Req = Brg Width = 6.5 Min Rea = 1.5Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375#

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.

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

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

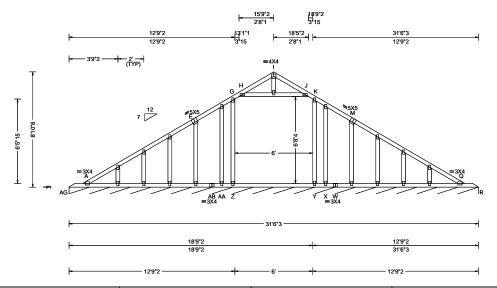
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SEQN: 409988 GABL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T47 DrwNo: 063.21.1323.00920 FROM: CDM Qty: 1 Senn Res. - 52" Celling fan in both Garages Truss Label: V1 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
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): 0.015 I 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.033 I 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.008 L	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.017 L	
NCBCLL: 10.00	Mean Height: 16.13 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.295	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.411	
Spacing: 24.0 "	C&C Dist a: 3.15 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.395	
' "	Loc. from endwall: not in 6.63 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11	
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 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.

NA	PP Deflection in loc L/defl L/#	Gravity	N
4	VERT(LL): 0.015 I 999 360	Loc R+ /R- /Rh	/Rw
	VERT(CL): 0.033 I 999 240	R* 134 /- /-	/54
	HORZ(LL): 0.008 L	AA /-128	
	HORZ(TL): 0.017 L	X /-128	
	Creep Factor: 2.0	Wind reactions based on M	IWFRS
	Max TC CSI: 0.295	R Brg Width = 378	
	Max BC CSI: 0.411	Bearing AG is a rigid surface	
e	Max Web CSI: 0.395	Members not listed have fo	
		Maximum Top Chord For	ces Per
		Chords Tens.Comp. C	hords

	Members not listed have forces less than 375#  Maximum Top Chord Forces Per Ply (lbs)  Chords Tens.Comp. Chords Tens. Com							
	Chords	Tens.C	Comp.	Chords	Tens.	Com		
1	A - E	160	- 451	I-J	103	- 5		

▲ Maximum Reactions (lbs), or \*=PLF

Non-Gravity

/RL

/11

Tens. Comp.

/Rw /U

Min Rea = -

A - E E - G G - H H - I	160 - 251 - 260 - 103 -	414 488	I - J J - K K - M M - Q	260 251	- 515 - 488 - 414 - 451
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				



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

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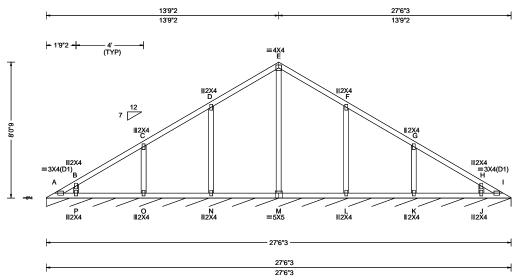
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 409989 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T49 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.01633 Truss Label: V2 / YK 03/04/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/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 F 999 360			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 F 999 240			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 D			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 D			
NCBCLL: 10.00	Mean Height: 16.89 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.206			
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.112			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.211			
' -	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11			
Lumber	•	•	•			

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL 83 /-/-/43 Wind reactions based on MWFRS 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

The overall height of this truss excluding overhang is



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

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

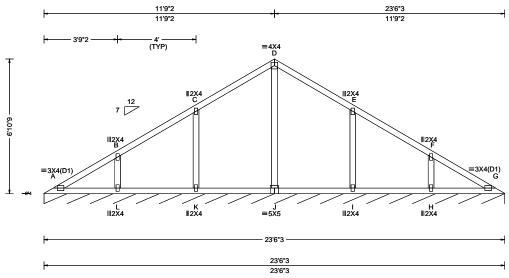
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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



SEQN: 409990 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T50 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.02410 Truss Label: V3 / 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): 0.005 L 999 360			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.010 L 999 240			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 L			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 L			
NCBCLL: 10.00	Mean Height: 17.47 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.207			
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.135			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.191			
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11			
Lumber		•				

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL G\* 83 /-/-/43 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

The overall height of this truss excluding overhang is 6-10-9.



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

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

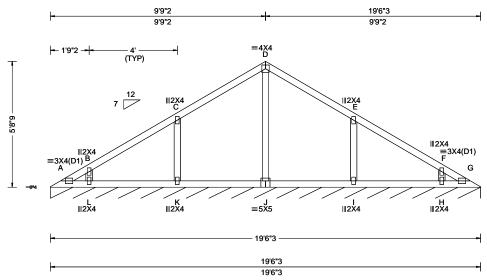
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 409991 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T51 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.03250 Truss Label: V4 / 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): 0.002 D 999 240			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C			
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 18.05 ft		HORZ(TL): 0.002 C			
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.215			
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.114			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.103			
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11			
Lumber						

▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rw /U /RL G\* 83 /-/-/43 /12 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

The overall height of this truss excluding overhang is



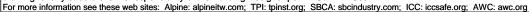
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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

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

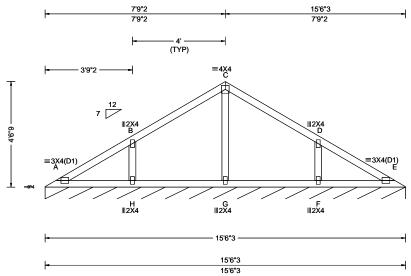
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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SEQN: 409992 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T52 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.04063 Truss Label: V5 / 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): 0.004 H 999 360			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.008 H 999 240			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 F			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 F			
NCBCLL: 10.00	Mean Height: 18.64 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.284			
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.131			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.088			
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11			
Lumber						

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rw /U /RL E\* 83 /-/-/43 Wind reactions based on MWFRS 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



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

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

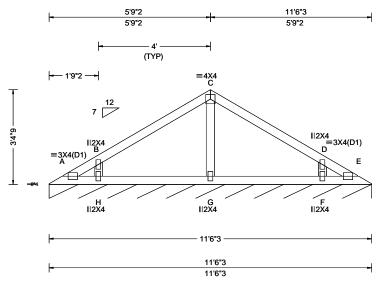
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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SEQN: 409993 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T53 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.05080 Truss Label: V6 / YK 03/04/2021



Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
Pf: NA Ce: NA	VERT(LL): 0.000 C 999 360			
Lu: NA Cs: NA	VERT(CL): 0.001 C 999 240			
Snow Duration: NA	HORZ(LL): -0.000 B			
	HORZ(TL): 0.001 H			
Building Code:	Creep Factor: 2.0			
FBC 7th Ed. 2020 Res.	Max TC CSI: 0.204			
TPI Std: 2014	Max BC CSI: 0.119			
Rep Fac: Yes	Max Web CSI: 0.049			
FT/RT:20(0)/10(0)				
Plate Type(s):				
WAVE	VIEW Ver: 20.01.01A.0724.11			
	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):			

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL E\* 83 /-/-/42 Wind reactions based on MWFRS 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

The overall height of this truss excluding overhang is



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

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

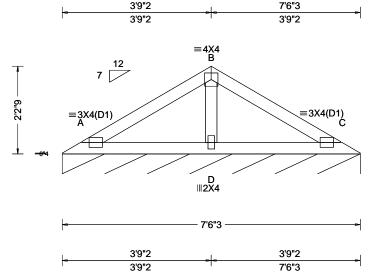
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 409994 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T54 FROM: CDM Senn Res.- 52" Celiing fan in both Garages Qty: 1 DrwNo: 063.21.1323.06040 Truss Label: V7 / 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): 0.005 D 999 360				
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.011 D 999 240				
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 D				
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.005 D				
NCBCLL: 10.00	Mean Height: 19.80 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0				
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.186				
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.150				
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.065				
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)					
	GCpi: 0.18	Plate Type(s):					
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.01.01A.0724.11				
Lumber							

▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL C\* 83 /-/-/41 /10 Wind reactions based on MWFRS 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



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

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

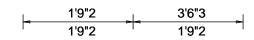
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

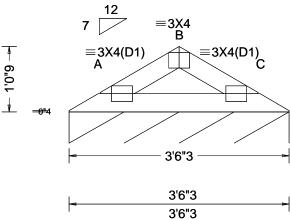
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SEQN: 409995 VAL Ply: 1 Job Number: 20-4565 Cust: R 215 JRef: 1X3f2150001 T55 FROM: CDM Qty: 1 Senn Res.- 52" Celiing fan in both Garages DrwNo: 063.21.1323.08690 Truss Label: V8 / YK 03/04/2021





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 999 360			
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 999 240			
	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001			
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	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	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.002 Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.085 Max Web CSI: 0.000			
Louishan	Wind Duration: 1.60	WAVE	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 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



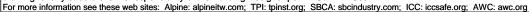
FL REG# 278, Yoonhwak Kim, FL PE #86367 03/04/2021

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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.

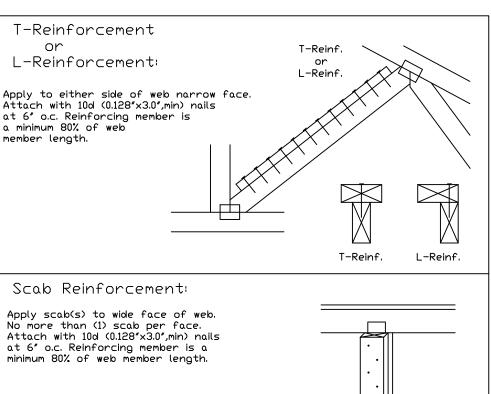
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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	Specified CLR	Alternative Reir	
Size	Restraint	T- or L- Reinf.	
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4( <b>*</b> )
2×8	1 row	2×6	1-2×8
2×8	2 rows		2-2×6( <del>*/</del> )

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.

face of web.



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

\*\*\*VARNINGI\*\*\* 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 inclinations of the installing and process.

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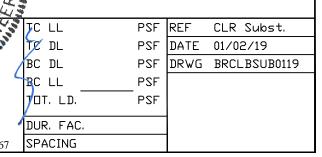
Refer to drawings 160A-Z for standard plate positions.

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For more information see this job's general notes page and these web sites/04/2021.

ALPINE: www.alpineitw.comj TPI: www.tpinstorgj SBCA: www.sbcindustry.orgj ICC: www.lcE3ofFAdpj# 278, Yoonhwak Kim, FL PE #86367



Scab Reinf.



514 Earth City Expressway Suite 242 Earth City, MO 63045

# Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

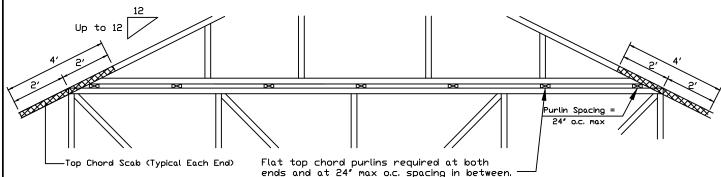
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

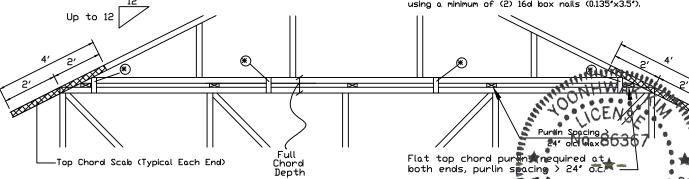
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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" nalls, (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 bose  $\mathfrak{I}$ truss, purlins must be installed at 24" o.c. max. and use Detail A.

4' o.c. front to back faces. 28PB Wave Piggyback Plate

# 

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engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Bullding Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites 04/2021 ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.dcc.energe.278, Voonhwak Kim. FL PE #86367

### \* In addition, provide connection with one of the following methods:

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

2x4 Vertical Scabs

8'x8'x7'16' (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.13'x2') nalls 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 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

Dine 28PB wave piggyback plate to each face 8 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.

DATE

PIGGYBACK

01/02/2018 DRWG PB160160118



13723 Riverport Drive

Maryland Heights, MO 63043

Suite 200

**SPACING** 24.0"

# Gable Stud Reinforcement Detail

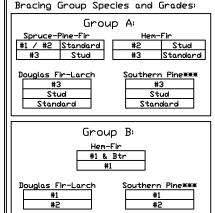
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Dr: 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

and 100 mph wind Speed, 15 mean neight, has daily checosed, Exposure B, K2V - 100														
		2x4 · Vertica	Brace	No	(1) 1×4 *L	" Brace *	(1) 2×4 *L	" Brace *	(2) 2×4 L	* Brace **	(1) 2×6 *L	" Brace *	(5) 5×6 L	Brace **
_	Spacing	Species	Grade	_	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
1		SPF	#1 / #2	4′ 3″	7′ 3″	7′ 7″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 3″	10′ 8″	13′ 6″	14' 0"	14' 0"	14′ 0″
	1.1	12LL	#3	4′ 1″	6′ 7 <b>″</b>	7′ 1″	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14′ 0″
	Ō	HF	Stud	4′ 1″	6′ 7 <b>″</b>	7′ 0 <b>″</b>	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0″
$\stackrel{\checkmark}{\sim}$	0	1 11	Standard	4′ 1″	5′ 8 <b>″</b>	6′ 0 <b>″</b>	7′ 7″	8′ 1 <b>″</b>	10′ 1″	10′ 6″	11′ 10″	12′ 8″	14′ 0″	14′ 0″
o			#1	4′ 6″	7′ 4″	7′ 8″	8′ 8 <b>″</b>	9′ 0″	10′ 4″	10′ 9″	13′ 8″	14′ 0″	14′ 0″	14′ 0″
—	*	SP	#2	4′ 3″	7′ 3″	7′ 7″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	L	#3	4′ 2″	6′ 0″	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>″</b>	13′ 4″	14′ 0″	14′ 0″
	$\Omega$	IDFL	Stud	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>″</b>	13′ 4″	14′ 0″	14′ 0″
			Standard	4′ 0″	5′ 3″	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.91		SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 <b>′</b>	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+			#3	4′ 8 <b>″</b>	8′ 1″	8′ 8 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	$\cup$	HF	Stud	4′ 8″	8′ 1″	8′ 6 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 & 1	Ō	1 11	Standard	4′ 8 <b>″</b>	6′ 11″	7′ 5 <b>′</b>	9′ 3″	9′ 11 <b>″</b>	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 🖑 1			#1	5′ 1 <b>″</b>	8′ 5″	8′ 9 <b>″</b>	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/	*	SP	#2	4′ 11 <b>″</b>	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	9		#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ţ	DFL	Stud	4′ 9″	7′ 4″	7′ 9 <b>″</b>	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Q			Standard	4′ 8″	6′ 5 <b>′</b>	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
		SPF	#1 / #2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
절			#3	5′ 1′	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0′	14′ 0″	14′ 0″
0	Ų	HF	Stud	5′ 1 <b>′</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	O	<u> </u>	Standard	5′ 1 <b>″</b>	8′ 0″	8′ 6″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
X	_		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0		SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ĮΣ	Ò	lde.	#3	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
_	Ţ	DFL	Stud	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1 <b>″</b>	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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.

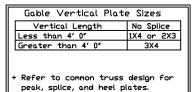
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

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.

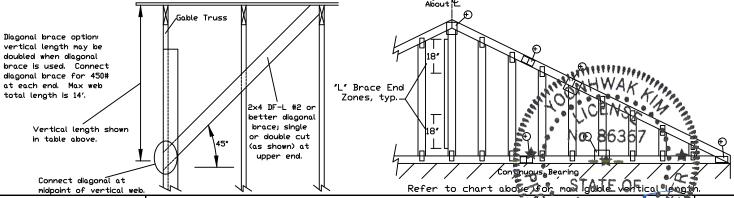
"L" bracing must be a minimum of 80% of web member length.



Refer to the Building Designer for conditions not addressed by this detail.

> |DATE 01/26/2018 DRWG A14015ENC160118

ASCE7-16-GAB14015



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

514 Earth City Expressway Suite 242 Earth City, MO 63045

# 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. Gable Example: Length typ. (\* )

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.

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, A1403ENC100118

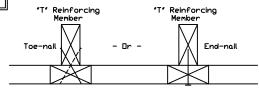
A18015ENC100118, A12015ENC100118, A12015ENC100118, A12015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A12003ENC100118, A12003ENC100118, A120030ENC100118, A120030ENC100118,

\$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100118 \$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$18030ENC100118)

\$18030ENC100118, \$20030ENC100118, \$20030END100118, \$20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical

### "T" Reinforcement Attachment Detail



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

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

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

### Web Length Increase w/ "T" Brace

"T" Reinf.	<b>"</b> T"			
Mbr. Size	Increase			
2×4	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

 $1.30 \times 8' \ 7'' = 11' \ 2''$ 

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Refer to drawings 160A-Z for standard plate positions.

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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.tapsaffe.org.  $5_{72}$ 

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

> MAX. TOT. LD. 60 PSF DUR. FAC. ANY

MAX. SPACING 24.0"



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

22k Kim FI PF #86367

# Gable Stud Reinforcement Detail

ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Dr: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

□r:	120	mph	Wind	Speed,	30,	Mean	⊢Height,	Enclosed	l, Exposur	e D, Kzt =	= 1.00
Dr:	100	mph	wind	speed,	30'	Mean	Height,	Partially	Enclosed,	Exposure	$D_{r} Kzt = 1.00$

Specing   Species   Grade   Braces   Group A   Group B   Group A		1				1	•	· · · · ·						1		íF
Spacing   Spacies   Grade   Braces   Group A   Group B   Group A   Group A   Group A   Group A   Group B   Group A   Group A   Group A   Group A   Group A   Group A		2x4			No.	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2×4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace		ı
The study of the standard   3 10	rtical Lengtk				-	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
The study of the standard   3 10		0 'C'	CDE	#1 / #2	4′ 1″	6′ 11″	7′ 2″	8′ 2 <b>″</b>	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	i l
Standard			1	#3			6′ 7″									l
Standard   3' 10'   5' 3'   5' 7'   7' 0'   7' 6'   9' 6'   10' 0'   11' 0'   11' 10'   14' 0'   14'				Stud	3′ 10″	6′ 2″	6′ 6″	8′ 1″	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″	l
SP				Standard	3′ 10″	5′ 3 <b>″</b>	5′ 7 <b>″</b>	7′ 0″	7′ 6″	9′ 6″	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″	l
#3 4'0' 5'7' 5'11' 7'5' 7'11' 9'8' 10'1' 11'7' 12'5' 14'0' 1			SP		4′ 2″	7′ 0″	7′ 3″	8′ 3″	8′ 7 <b>″</b>	9′ 10″	10′ 3″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	ıl
Stud		🔪		#2	4′ 1″	6′ 11″	7′ 2″	8′ 2 <b>″</b>	8′ 6″	9′ 9″	10′ 2″	12′ 10″		14′ 0″	14′ 0″	l
Standard 3' 9' 4' 11' 5' 13' 6' 6' 7' 0' 8' 10' 9' 6' 10' 3' 11' 0' 13' 11' 14' 0'  SPF #1 / #2 4' 8' 7' 11' 8' 3' 9' 4' 9' 9' 11' 2' 11' 7' 14' 0' 14' 0' 14' 0' 14' 0'  HF Stud 4' 5' 7' 6' 8' 0' 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'  Fraction of the standard 4' 5' 6' 5' 6' 10' 8' 7' 9' 2' 11' 0' 11' 6' 13' 6' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 5' 6' 10' 7' 3' 9' 1' 9' 8' 11' 1' 11' 6' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 5' 6' 10' 7' 3' 9' 1' 9' 8' 11' 1' 11' 6' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 5' 6' 0' 6' 5' 8' 0' 8' 7' 10' 10' 11' 6' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 5' 6' 0' 6' 5' 8' 0' 8' 7' 10' 10' 11' 6' 12' 7' 13' 15' 14' 0' 14' 0'  Fraction of the standard 4' 10' 8' 7' 8' 11' 10' 2' 10' 7' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 8' 7' 8' 11' 10' 2' 10' 7' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 11' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 11' 10' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 7' 5' 7' 10' 8' 4' 10' 3' 10' 8' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 6' 11' 7' 14' 9' 3' 10' 8' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 6' 11' 7' 10' 8' 4' 10' 9' 12' 2' 12' 8' 14' 0' 14' 0' 14' 0' 14' 0'  Fraction of the standard 4' 10' 8' 11' 10' 10' 10' 10' 12' 12' 8' 14' 0' 14' 0'		4		#3			5′ 11″				10′ 1″	11′ 7″		14′ 0″		ıl
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The study				Standard	3′ 9″	4′ 11″	5′ 13″	6′ 6″	7′ 0 <b>″</b>	8′ 10 <b>″</b>	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″	ı
HF   Stud   4' 5'   7' 6'   8' 0'   9' 3'   9' 7'   11' 0'   11' 6'   14' 0'   14'			SPF	#1 / #2	4′ 8 <b>″</b>	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
HF   Stud   4' 5'   7' 6'   8' 0'   9' 3'   9' 7'   11' 0'   11' 6'   14' 0'   14'		-		#3	4′ 5 <b>″</b>	7′ 6″	8′ 3″	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
Standard 4'5' 6'3' 8'4' 9'6' 9'10' 11'3' 11'6' 14'0' 14'0' 14'0' 14'0'    14		Ü	ЦΕ	Stud	4′ 5″	7′ 6″	8′ 0 <b>″</b>	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ıl
SP #1 4 10 8 0 8 4 9 9 10 11 3 11 7 14 0 14 0 14 0 14 0 14 0 14 0 14 0				Standard	4′ 5 <b>″</b>	6′ 5 <b>″</b>	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	l
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#3 4' 7" 6' 10" 7' 3" 9' 1" 9' 8" 11' 1" 11' 6" 14' 0" 14'	>					7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
Standard 4' 5' 6' 0' 6' 5' 8' 0' 8' 7' 10' 10' 11' 6' 12' 7' 13' 15' 14' 0' 14'			<b>、</b>	#3		6′ 10 <b>″</b>				11′ 1″	11′ 6″	14′ 0″		14′ 0″		l
Standard 4' 5' 6' 0" 6' 5' 8' 0" 8' 7" 10' 10" 11' 6" 12' 7" 13' 15" 14' 0" 14'	ax Gabl	16		Stud						11′ 1″			14′ 0″			ı
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			CDE		5′ 2 <b>″</b>	8′ 9 <b>″</b>	9′ 1″	10′ 4″		11′ 2″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	ΙL
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-	12 K.E	#3	4′ 10″	8′ 7 <b>″</b>	8′ 11″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		U	ᅵᆸᆮ	Stud	4′ 10″							14′ 0″	14′ 0″		14′ 0″	ı
SP		1 ~	1 11	Standard	4′ 10″	7′ 5 <b>″</b>		9′ 11″	10′ 7″		12′ 8″	14′ 0″		14′ 0″		1
SP #2 5' 2" 8' 9" 9' 1" 10' 4' 10' 9" 12' 3" 12' 9" 14' 0"		_	0.0		5′ 4″	8′ 10 <b>″</b>	9′ 2″	10′ 5 <b>″</b>	10′ 10″	12′ 5 <b>″</b>	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
Study   5' 0'   7' 10'   8' 4'   10' 3'   10' 8'   12' 2'   12' 8'   14' 0'   14'						8′ 9 <b>″</b>		10′ 4″		12′ 3″		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"				#3	5′ 0 <b>″</b>	7′ 10″	8′ 4″	10′ 3″			12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	l
Standard 4' 10" 6' 11" 7' 4" 9' 3" 9' 10" 12' 2" 12' 8" 14' 0" 14' 0" 14' 0" 14' 0"			IJFL	Stud		7′ 10″	8′ 4″					14′ 0″	14′ 0″			ı
				Standard	4' 10"	6′ 11″	7′ 4″	9′ 3″			12′ 8 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14' 0"	l

Bracing Group Species and Grades: Group A: Spruce-Pine-Fir Hem-Fir #1 / #2 Standard #2 Stud Stud #3 #3 Standard Douglas Fir-Larch Southern Pine\*\*\* #3 #3 Stud Stud Standard Standard Group B: Hem-Fir #1 & Btr Douglas Fir-Larch Southern Pine\*\*\* #1 #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.

|DATE 01/26/2018

ASCE7-16-GAB14030

### Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2x6 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at Refer to chart above son midpoint of vertical web.

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

Trusses require extreme care in fabricating, shaping, shipping, installing and pracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, br PI 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 celling. 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 ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, 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 1/2021 ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.lets.org; SBCA: www.sbcindustry.org; SBCA: www.

DRWG A14030ENC160118 MAX, TOT, LD, 60 PSF 24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

Constituous Bearing

MAX. SPACING

# 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 = 1.00Πr

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.

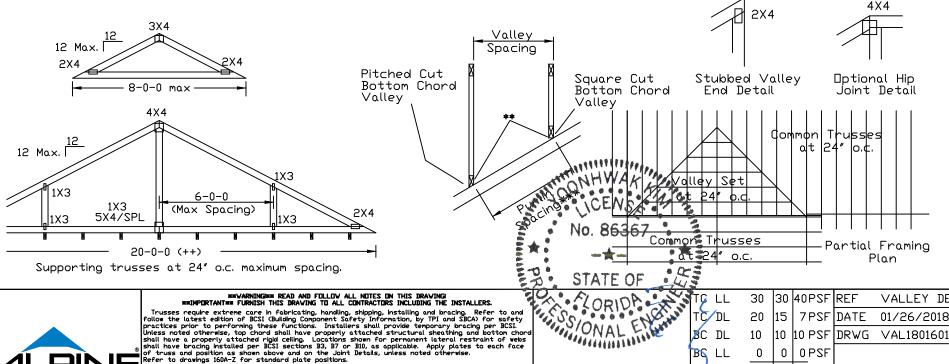
Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracina 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.

Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

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''.



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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Buldling Component Safety Information, by FPI 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 celling. 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 ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any fallure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, nastallation & 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 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 3/0.4/2021 ALPINE: www.alpineitw.com; TPI: www.tpinstorg; SBCA: www.sbcindustry.org; ICC: www.icceter.org; 278, Yoonhwak Kim, FL PE #86367 SPACING

600	ΤÇ	LL	30	30	40PSF	REF	VALLEY	DETAIL
•	TC	DL.	20	15	7PSF	DATE	01/26/20	18
	BC	DL	10	10	10 PSF	DRWG	VAL18016	50118
	BC	LL	0	0	0 PSF			
	TØ1	r. LD.	60	55	57PSF			
	DUR.FAC. 1.25/1.33			1.15	1.15			
	SPA	ACING		24.	0"			

# 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"  $\times$  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.

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  $(0.128" \times 3.0")$  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.

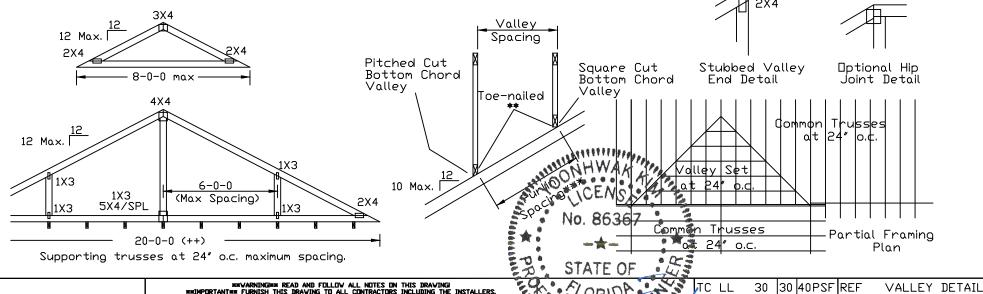
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

4X4

01/26/2018

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''.





514 Earth City Expressway Suite 242 Earth City, MO 63045

mmIMPDRTANTmm FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

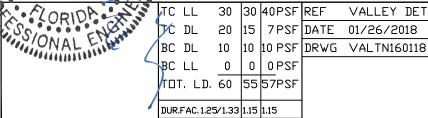
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Bullding Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

Alpine, a division of ITV Building Components Grown Inc.

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For more information see this job's general notes page and these web sit ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.tpinst.org; onhwak Kim FL PE #86367



SPACING 24.0"