



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: 20-4127	
Job Description: Williams Floor Plan		
Address:		

Job Engineering Criteria:						
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01B through 19.02.02B					
	JRef #: 1WV12150006					
Wind Standard: ASCE 7-10 Wind Speed (mph): 130	Roof Load (psf): 20.00-10.00- 0.00-10.00					
Building Type: Closed	Floor Load (psf): None					

This package contains general notes pages, 43 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	127.20.1156.17386	A01
3	127.20.1156.18073	A03
5	127.20.1156.17589	A05
7	127.20.1156.17884	A07
9	127.20.1156.17947	A09
11	127.20.1156.17698	A11
13	127.20.1156.17650	A13
15	127.20.1201.59023	A14A
17	127.20.1202.18890	A16
19	127.20.1156.17869	B01
21	127.20.1156.17806	B03
23	127.20.1156.17511	B04
25	127.20.1156.17510	C01
27	127.20.1202.34390	C03
29	127.20.1156.17604	D02
31	127.20.1156.18118	J01
33	127.20.1156.17978	J01B
35	127.20.1156.17728	J01D
37	127.20.1156.17262	J02
39	127.20.1156.17714	J04
41	127.20.1156.17715	J06
43	127.20.1156.17853	PB02
45	BRCLBSUB0119	
47	PB160101014	

Item	Drawing Number	Truss
2	127.20.1156.17387	A02
4	127.20.1156.17915	A04
6	127.20.1156.18072	A06
8	127.20.1156.17263	A08
10	127.20.1201.40563	A10
12	127.20.1201.49017	A12
14	127.20.1201.53043	A14
16	127.20.1156.17388	A15
18	127.20.1156.17792	A17
20	127.20.1156.18104	B02
22	127.20.1156.17389	B03A
24	127.20.1156.17651	B05
26	127.20.1156.17385	C02
28	127.20.1156.17837	D01
30	127.20.1156.18026	D03
32	127.20.1156.18009	J01A
34	127.20.1156.17542	J01C
36	127.20.1156.18165	J01E
38	127.20.1156.17636	J03
40	127.20.1156.17948	J05HJ
42	127.20.1156.17653	PB01
44	A14015ENC101014	
46	GBLLETIN0118	

## **General Notes**

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

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

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

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

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

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

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

## Permanent Lateral Restraint and Bracing:

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

## **Connector Plate Information:**

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

## **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.

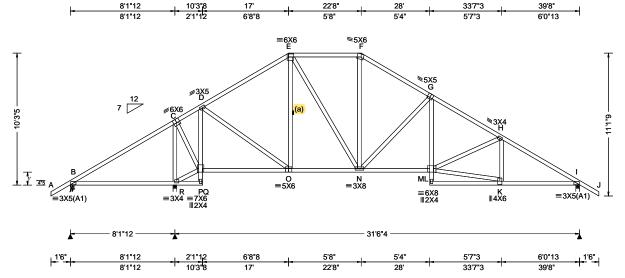
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; <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: 314387 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T34 / FROM: CDM DrwNo: 127.20.1156.17386 Qty: 2 Williams Floor Plan Truss Label: A01 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	l
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.081 L 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.164 L 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.034 K	
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.069 K	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.897	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.683	
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.967	
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		l
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	

	▲ Maximum Reactions (lbs)							
		G	ravity		No	n-Grav	rity	
)	Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL	
)	В	376	/-21	/-	/122	/11	/239	
	R	1900	/-	/-	/1112	/-	/-	
	1	1358	/-	/-	/814	/-	/-	
	Win	d reac	tions ba	sed on	MWFRS			
	В	Brg W	/idth = 3	.5	Min Red	q = 1.5		
	R	Brg W	/idth = 3	.5	Min Red	q = 1.9		
	1	Brg W	/idth = 3	.5	Min Red	q = 1.6		
	Bea	rings E	3, R, & I	are a ri	gid surface	е.		
	Men	nbers	not liste	d have t	forces less	than 3	75#	
_	Max	timum	Top Cl	nord Fo	rces Per	Ply (lbs	s)	
	Cho	rds T	ens.Cor	np.	Chords	Tens.	Comp.	

## F-G B - C 238 - 1272 463 - 69 D-E 203 - 1025 G-H 253 - 1897 E-F H - I 241 - 2027 232 - 1026

## **Bracing**

Lumber

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

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



## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (	Comp.
O - N	794	0	K-I	1670	- 120
N - L	1565	- 51			

## Maximum Web Forces Per Ply (lbs)

webs	rens.comp.	webs	rens. C	Jomp.
C-R	138 - 1477	E-N	453	- 49
C - P	1040 - 15	N - G	140	- 784
R-P	97 - 437	G-L	534	- 37
P - D	82 - 1160	L-K	1663	- 119
D - O	797 0			

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

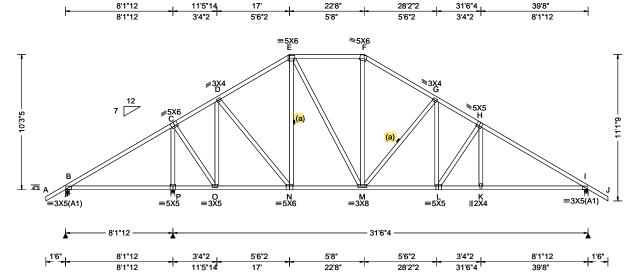
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314388 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T33 / FROM: CDM DrwNo: 127.20.1156.17387 Williams Floor Plan Qty: 1 Truss Label: A02 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.066 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.135 L 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 K
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.051 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.953
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.703
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.731
' -	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: 18.02.01B.0321.08
Lumber			

A N	▲ Maximum Reactions (lbs)						
	G	ravity		No	on-Gra	avity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	471	/-	/-	/217	/-	/239	
Р	1682	/-	/-	/989	/-	/-	
1	1409	/-	/-	/838	/-	/-	
Wi	nd reac	tions b	ased on	MWFRS			
В	Brg V	Vidth =	3.5	Min Re	q = 1.	5	
Р	Brg V	Vidth =	3.5	Min Re	q = 2.	0	
1	Brg V	Vidth =	3.5	Min Re	q = 1.	7	
Be	arings l	B, P, &	I are a ri	gid surfac	e.		
Me	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.	

## F-G C-D 182 - 692 251 - 1250 D-E 227 - 1033 G-H 274 - 1694 E-F H - I 248 - 2040 245 - 1013

## **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

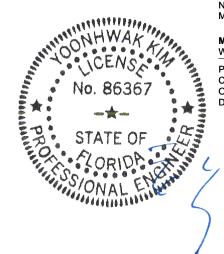
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. Comp.		
O - N	544	- 47	L-K	1653	- 105	
N - M	823	0	K-I	1656	- 105	
M - L	1380	- 46				

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (	Comp.
P-C	173 -	1489	E - M	407	- 47
C - O	1021	- 28	M - G	126	- 582
O - D	45	- 812	G-L	460	- 68
D - N	468	0	L-H	106	- 478

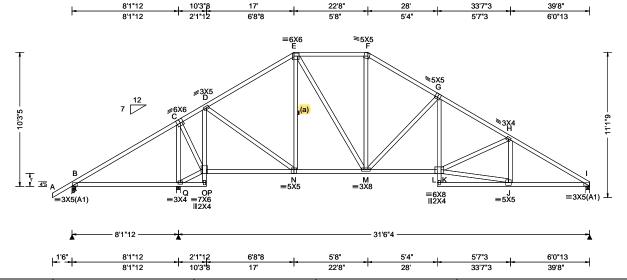
FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

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SEQN: 314389 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T25 / FROM: CDM DrwNo: 127.20.1156.18073 Qty: 2 Williams Floor Plan Truss Label: A03 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.080 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.163 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.034 J
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.070 J
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.896
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.683
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.976
	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: 18.02.01B.0321.08
Lumber	•		

## ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 377 /-19 /127 /228 1900 /-/1107 /-1254 /742 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5Brg Width = 3.5 Min Req = 1.9 Brg Width = 3.5 Min Rea = 1.5Bearings B, Q, & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

B - C	458 - 71	F-G	241	- 1278
D-E	201 - 1030	G-H	270	- 1911
E-F	233 - 1032	H - I	262	- 2054

Chords Tens. Comp.

1698

- 158

Maximum Bot Chord Forces Per Ply (lbs)

n

## **Bracing**

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

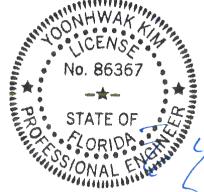
(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat

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

## **Additional Notes**

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



-77 Maximum Web Forces Per Ply (lbs)

Chords Tens.Comp.

N - M

M - K

798

1576

Webs	Tens.Comp.	Webs	Tens. Comp.	
C-Q	155 - 1479	E - M	456	- 52
C - O	1042 - 28	M - G	148	- 791
Q - O	87 - 433	G-K	546	-50
O - D	88 - 1160	K-J	1692	- 157
D - N	797 - 6			

.1 - 1

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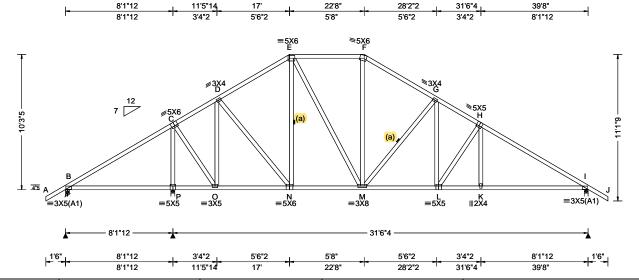
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 314390 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T23 / FROM: CDM DrwNo: 127.20.1156.17915 Qty: 1 Williams Floor Plan Truss Label: A04 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.066 L 999 240	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.135 L 999 180	le
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 K	F
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.051 K	1
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	١
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.953	5
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.703	ľ
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.731	;
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		1
	GCpi: 0.18	Plate Type(s):		- 1
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	(
Lumber				

	▲ Maximum Reactions (lbs)							
		G	ravity	-	No	on-Gra	vity	
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	В	471	/-	/-	/220	/-	/232	
	Р	1682	/-	/-	/988	/-	/-	
	1	1409	/-	/-	/840	/-	/-	
	Win	d read	ctions ba	ased on	MWFRS			
	В	B Brg Width = 3.5			Min Re	Min Req = 1.5		
	Р	P Brg Width = 3.5			Min Req = 2.0			
	1	Brg V	Vidth =	3.5	Min Re	q = 1.	7	
	Bearings B, P, & I are a rigid surface.							
	Members not listed have forces less than 375#							
_	Max	imun	1 Top C	hord Fo	rces Per	Ply (II	os)	
	Cho	rds 1	Tens.Co	mp.	Chords	Tens.	. Ćomp.	

## F-G C-D 227 - 1250 173 - 692 D-E 207 - 1033 G-H 250 - 1694 E-F H - I 225 - 2040 225 - 1013

## **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

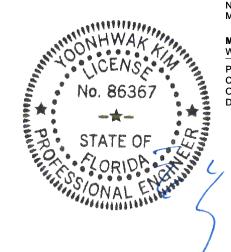
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. Comp.	
O - N	544	- 42	L-K	1653	- 87
N - M	823	0	K-I	1656	- 87
M - L	1380	- 28			

## Maximum Web Forces Per Ply (lbs)

Tens.Comp.	Webs	Tens. C	Comp.
150 - 1489	E - M	407	- 45
1021 - 10	M - G	131	- 582
30 -812	G-L	460	-67
468 0	L-H	104	- 478
	150 - 1489 1021 - 10 30 - 812	150 - 1489 E - M 1021 - 10 M - G 30 - 812 G - L	150 - 1489 E - M 407 1021 - 10 M - G 131 30 - 812 G - L 460

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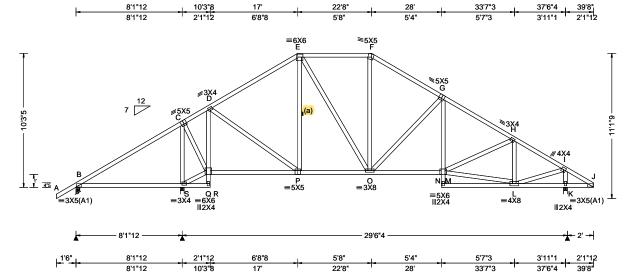
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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SEQN: 314391 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T26 / FROM: CDM DrwNo: 127.20.1156.17589 Qty: 1 Williams Floor Plan Truss Label: A05 KD / DF 05/06/2020



Loading Criteria (psf)   TCLL: 20.00   TCDL: 10.00   BCLL: 0.00   BCDL: 10.00   Des Ld: 40.00   NCBCLL: 10.00   Soffit: 2.00   Load Duration: 1.25   Spacing: 24.0   "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes	PDefI/CSI Criteria  PP Deflection in loc L/defl L/# VERT(LL): 0.050 M 999 240 VERT(CL): 0.102 M 999 180 HORZ(LL): 0.025 L HORZ(TL): 0.051 K Creep Factor: 2.0 Max TC CSI: 0.730 Max BC CSI: 0.564 Max Web CSI: 0.698	o
Soffit: 2.00	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES TPI Std: 2014	Max TC CSI: 0.730 Max BC CSI: 0.564	

▲ Maximum Reactions (lbs)								
	G	ravity		No	n-Grav	rity		
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL		
В	432	/-	/-	/180	/-	/220		
S	1685	/-	/-	/1001	/-	/-		
K	1369	/-	/-	/838	/-	/-		
Win	d reac	tions bas	sed on M	WFRS				
В	Brg W	/idth = 3	.5	Min Re	q = 1.5			
			.5	Min Re	q = 1.6			
K	Brg W	/idth = 3	.5	Min Re	q = 1.5			
Bearings B, S, & K are a rigid surface.								
Members not listed have forces less than 375#								
Max	Maximum Top Chord Forces Per Ply (lbs)							
Cho	rds T	ens.Con	np. C	hords	Tens.	Comp.		

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

## **Bracing**

(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

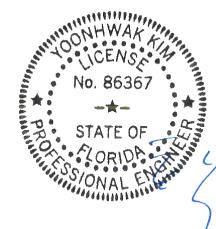
## Wind

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

Right cantilever is exposed to wind

## **Additional Notes**

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



C-D	128 - 412	F-G	200	- 1184
D-E	177 - 1013	G-H	200	- 1628
E-F	203 - 948	H - I	160	- 1366

## Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.Comp.		Cnoras	rens. Comp.	
P - O	784	0	O - M	1337	- 34

## Maximum Web Forces Per Ply (lbs)

webs	Tens.C	omp.	webs	i ens.	Comp.
C-S	123	- 1378	M - L	1137	-73
C - Q	956	-4	H-L	69	- 519
Q - D	55	- 969	L-I	1181	- 93
D - P	616	0	I-K	181	- 1289
O - G	128	- 566			

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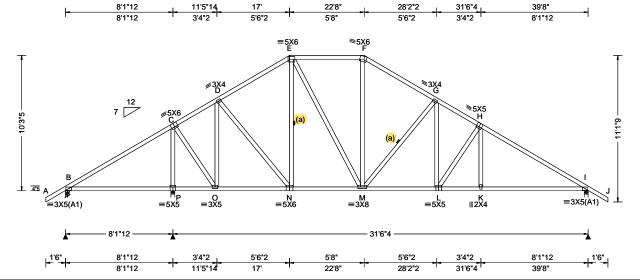
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SEQN: 314392 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T32 / FROM: CDM Qty: 1 DrwNo: 127.20.1156.18072 Williams Floor Plan Truss Label: A06 KD / DF 05/06/2020



Snow Criteria (Pg Pf in PSF) | Defl/CSI Criteria

Loading Citteria (psi)	Willia Cilicila	Ollow Citteria (Fg,FTill FSI )	Delivoor oriteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.066 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.135 L 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 K
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.051 K
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.953
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.703
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.731
-, 3	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: 18.02.01B.0321.08
Lumber			

Ī	▲ Maximum Reactions (lbs)								
ı		G	ravity		No	on-Gra	avity		
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
	В	471	/-	/-	/227	/-	/213		
ı	Р	1682	/-	/-	/970	/-	/-		
ı	1	1409	/-	/-	/835	/-	/-		
ı	Win	d read	ctions b	ased on	MWFRS				
ı	В	Brg V	Vidth =	3.5	Min Re	q = 1.	5		
ı	Ρ	Brg V	Vidth =	3.5	Min Re	q = 2.	0		
ı	1	Brg V	Vidth =	3.5	Min Re	q = 1.	7		
ı	Bearings B, P, & I are a rigid surface.								
ı	Mer	nbers	not list	ed have	forces less	s than	375#		
4	Max	cimun	Top C	hord Fo	orces Per	Ply (II	os)		
ı	Cho	rds 7	Tens.Co	omp.	Chords	Tens	. Comp.		

## F-G C-D - 1250 204 - 692 299 D-E 272 - 1033 G-H 321 - 1694 E-F H - I - 2040 289 - 1013 295

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

Loading Criteria (psf) | Wind Criteria

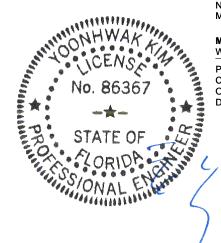
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Tens.Comp. Chords			Tens. Comp.		
O - N	544	- 36	L-K	1653	- 150			
N - M	823	0	K-I	1656	- 150			
M - I	1380	- 93						

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Co	mp.
P-C	221 - 1489	E - M	407	-60
0-0	1021 - 68	M - G	133	- 582
O - D	79 -812	G-L	460	- 65
D - N	468 - 5	L-H	101	- 478

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

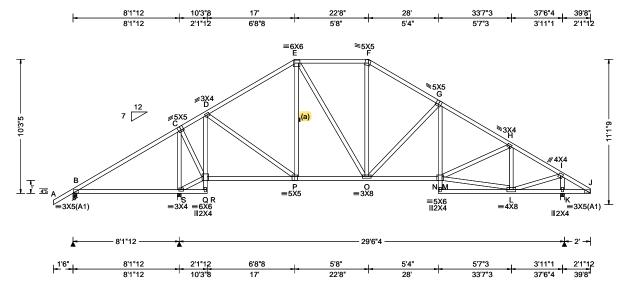
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314393 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T21 / FROM: CDM DrwNo: 127.20.1156.17884 Qty: 1 Williams Floor Plan Truss Label: A07 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DetI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.050 M 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.102 M 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 L
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.051 K
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.730
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.564
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.698
	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: 18.02.01B.0321.08
Lumber			

۸N	▲ Maximum Reactions (lbs)							
	G	ravity	-	No	on-Gra	vity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
В	432	/-	/-	/189	/-	/202		
s	1685	/-	/-	/982	/-	/-		
K	1369	/-	/-	/832	/-	/-		
Wii	nd read	tions b	ased on	MWFRS				
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	5		
s	Brg V	Vidth =	3.5	Min Req = 1.6				
K	Brg V	Vidth =	3.5	Min Re	q = 1.5	5		
Bea	Bearings B, S, & K are a rigid surface.							
Me	mbers	not list	ed have t	forces less	s than	375#		
Ma	ximum	Top (	hord Fo	rces Per	Ply (lk	os)		
Ch	ords T	ens.Co	omp.	Chords	Tens.	Comp.		

## F-G C-D 143 - 412 273 - 1184 G-H D-E 242 - 1013 277 - 1628 211 - 1366 E-F 268 - 948 H - I

## **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

## Wind

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

Right cantilever is exposed to wind

## **Additional Notes**

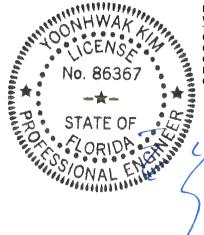
Refer to General Notes for additional information The overall height of this truss excluding overhang is 10-3-5

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

Chords Tens. Comp. P - O 784 O - M 1337 - 101

## Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp.	webs	Tens. (	Jonnp.
C-S	188 - 1378	M - L	1137	- 117
C - Q	956 - 60	H-L	92	- 519
Q - D	108 - 969	L-I	1181	- 134
D - P	616 - 29	I-K	219	- 1289
0 - G	132 - 566			



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

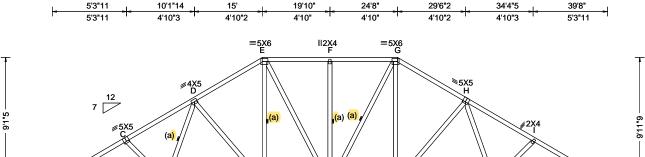
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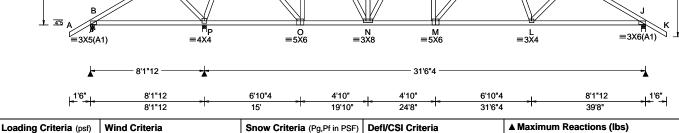
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SEQN: 314394 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T31 / FROM: CDM Williams Floor Plan DrwNo: 127.20.1156.17263 Qty: 1 Truss Label: A08 KD / DF 05/06/2020





TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.069 H 999 240 L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.141 H 999 180 E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 L F
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.049 L J
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.449
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.768
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.599
-, 3	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: 18.02.01B.0321.08
Lumber		1	

▲ Maximum Reactions (lbs)								
	Gi	ravity		No	n-Grav	ity		
Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL		
В	336	/-	/-	/156	/-	/192		
Р	1898	/-	/-	/1053	/-	/-		
J	1370	/-	/-	/817	/-	/-		
Win	d reac	tions bas	ed on M\	WFRS				
В	Brg W	idth = 3.	5	Min Red	q = 1.5			
Р	Brg W	idth = 3.	5	Min Red	q = 1.9			
J	Brg W	idth = 3.	5	Min Red	q = 1.6			
Bea	rings E	3, P, & J	are a rigio	d surfac	e.			
Men	nbers i	not listed	have for	ces less	than 3	75#		
Max	imum	Top Ch	ord Forc	es Per	Ply (lbs	5)		
Cho	rds T	ens.Com	ıp. Ch	nords	Tens.	Ćomp.		

## C-D - 1338 476 - 39 G - H 294 302 D-E 225 - 850 H - I - 1838 E-F - 2051 271 - 984 I - J 293 F-G 271 - 984

## **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

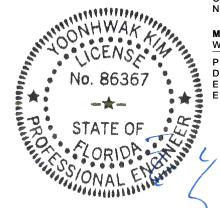
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.



O - N	666	0	M - L	1415

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (	Comp.
O - N	666	-	M - L	1415	- 111
N - M	1085		L - J	1701	- 179

## Maximum Web Forces Per Ply (lbs)

webs	rens.Comp.	vvebs	rens. C	omp.	
P - D	254 - 1583	G - M	519	- 74	
D - O	797 -77	M - H	128	- 517	
E - O	84 - 504	H-L	409	- 28	
E - N	666 - 112				

FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

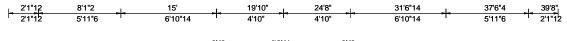
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

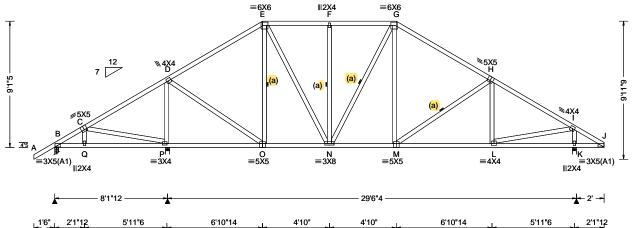
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SEQN: 314395 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T38 / FROM: CDM Qty: 1 DrwNo: 127.20.1156.17947 Williams Floor Plan Truss Label: A09 KD / DF 05/06/2020





19'10"

24'8'

31'6"14

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	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.048 M 999 240 VERT(CL): 0.097 M 999 180 HORZ(LL): 0.017 K HORZ(TL): 0.035 K	
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.97 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0  Max TC CSI: 0.517  Max BC CSI: 0.573  Max Web CSI: 0.629  VIEW Ver: 18.02.01B.0321.08	\   E   H   E
Lumber				۔ د ا

15'

▲ M	▲ Maximum Reactions (lbs)							
	G	ravity		Non-Gravity				
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
В	428	/-	/-	/224	/-	/180		
Р	1577	/-	/-	/928	/-	/-		
K	1404	/-	/-	/840	/-	/-		
Win	d reac	tions ba	sed on N	<b>MWFRS</b>				
В	Brg W	/idth = 3	.5	Min Re	q = 1.5	5		
Р	Brg W	/idth = 3	.5	Min Re	q = 1.5	5		
K	Brg W	/idth = 3	.5	Min Re	q = 1.5	5		
Bea	Bearings B, P, & K are a rigid surface.							
Mer	Members not listed have forces less than 375#							
Max	Maximum Top Chord Forces Per Ply (lbs)							
Cho	rds T	ens.Cor	np. (	Chords	Tens.	Ćomp.		

39'8"

37'6"4

## F-G B - C - 975 51 - 491 274 D-E 235 - 969 G-H 278 - 1289 E-F 250 - 1524 274 - 975

## **Bracing**

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

2'1"12

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

## Wind

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

Right cantilever is exposed to wind

## **Additional Notes**

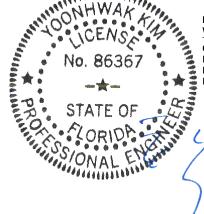
Refer to General Notes for additional information The overall height of this truss excluding overhang is



Chords	Tens.C	omp.	Chords	Tens. (	Comp.
B - Q	404	-68	N - M	1015	-52
Q-P	398	- 70	M - L	1248	- 133
O - N	742	-8			

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
C - P	81 - 436	E-N	502 -84	
P - D	232 - 1346	L-I	1198 - 126	
D - O	820 - 69	I-K	238 - 1301	
E - O	73 - 389			
		1 - K	230 - 1301	



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

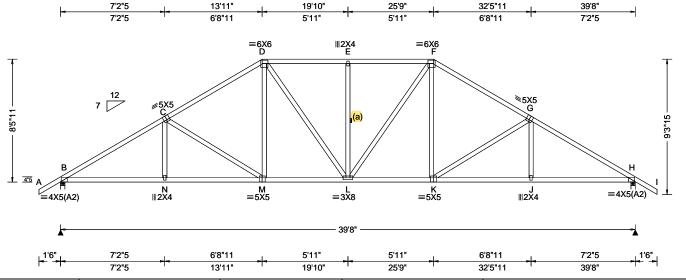
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 315568 HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T41 FROM: CDM Qty: 1 DrwNo: 127.20.1201.40563 Williams Floor Plan Truss Label: A10 KD / YK 05/06/2020



ı	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DetI/CSI Criteria	1
	TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.144 E 999 240	L
	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.295 E 999 180	В
	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.066 J	Н
	Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.135 J	W
	NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	В
	Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.584	H
	Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.737	В
	Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.679	N
	- Faran 3 112	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		M C
		GCpi: 0.18	Plate Type(s):		∠ [
		Wind Duration: 1.60	WAVE	VIEW Ver: 19.02.02B.0122.15	В
ı					1 С

▲ Maximum Reactions (lbs)								
	Gravit	У	Non-Gravity					
Loc R	t+ /R	/ Rh	/ Rw	/ U	/ RL			
B 17	51 /-	/-	/990	/66	/180			
H 17	51 /-	/-	/990	/66	/-			
Wind r	eactions	based or	MWFRS					
B Br	g Width	= 3.5	Min Req = 2.1					
H Br	g Width	= 3.5	Min Re	eq = 2.1	1			
Bearin	gs B & H	l are a rig	id surface.					
Membe	ers not l	isted have	forces les	s than	375#			
Maxim	um Top	Chord F	orces Per	Ply (lb	s)			
			Chords					
в-с	405	- 2744	E-F	411	- 1985			
C-D	403	- 2210	F-G	403	- 2210			
D-E	411	- 1985	G-H	405	- 2744			

## Lumber

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

## **Bracing**

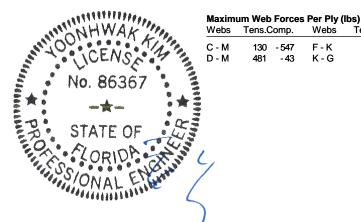
(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 8-5-11.



Webs Tens.Comp. Webs Tens. Comp. C - M - 547 481 130 F-K -43 D - M 481 - 43 K - G 130 - 547

Maximum Bot Chord Forces Per Ply (lbs)

- 238

Chords

K-J

J - H

Tens. Comp.

- 150

- 259

- 259

1813

2274

2276

Chords Tens.Comp.

2276

2274 - 238

1813 - 143

B - N

N - M

M - L

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SEQN: 314397 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T40 / FROM: CDM DrwNo: 127.20.1156.17698 Williams Floor Plan Qty: 1 Truss Label: A11 KD / DF 05/06/2020 8'1"2 13' 19'10' 26'8' 31'6"14 39'8' 8'1"2 4'10"14 6'10' 6'10**'** 4'10"14 8'1"2 ∥2<u>X</u>4 8'9"5 M<sup>™</sup> |||2X4 ≡5X5 =4X8 | ||2X4 =3X5(A1) ≦3X5(A1) =5X5 8'1"12 31'6"4 8'1"2 4'10"14 6'10' 6'10' 4'10"14 8'1"2 8'1"2 19'10' 26'8' 31'6"14 39'8'

Loading Criteria (psf)	Wind Criteria	
TCLL: 20.00	Wind Std: ASCE 7-10	
TCDL: 10.00	Speed: 130 mph	
BCLL: 0.00	Enclosure: Closed	
BCDL: 10.00	Risk Category: II	
Des Ld: 40.00	EXP: B Kzt: NA	
	Mean Height: 15.00 ft	
NCBCLL: 10.00	TCDL: 5.0 psf	
Soffit: 2.00	BCDL: 5.0 psf	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	ľ
Spacing: 24.0 "	C&C Dist a: 3.97 ft	
	Loc. from endwall: not in 9.00 ft	
	GCpi: 0.18	

Wind Duration: 1.60

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

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

PP Deflection in loc l	_/defl	L/#
VERT(LL): 0.066 J	999	240
VERT(CL): 0.135 J	999	180
HORZ(LL): 0.024 I	-	-
HORZ(TL): 0.050 I	-	-
Creep Factor: 2.0		
Max TC CSI: 0.937		
Max BC CSI: 0.710		
Max Web CSI: 0.752		
VIEW Ver: 18.02.01B.	0321.	.08
	VERT(LL): 0.066 J VERT(CL): 0.135 J HORZ(LL): 0.024 I HORZ(TL): 0.050 I Creep Factor: 2.0 Max TC CSI: 0.937 Max BC CSI: 0.710 Max Web CSI: 0.752	VERT(CL): 0.135 J 999 HORZ(LL): 0.024 I - HORZ(TL): 0.050 I - Creep Factor: 2.0 Max TC CSI: 0.937 Max BC CSI: 0.710

## ▲ Maximum Reactions (lbs)

	= maximum reactions (150)							
	Gravity				Non-Gravity			
	Lo	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	В	457	/-	/-	/225	/32	/159	
	М	1732	/-	/-	/955	/46	/-	
	Н	1297	/-	/-	/747	/46	/-	
	Wi	nd reac	tions b	ased on I	MWFRS			
	В	Brg V	/idth =	3.5	Min Re	q = 1.5	5	
	М	Brg V	/idth =	3.5	Min Re	q = 1.7	7	
	Н	Brg V	/idth =	3.5	Min Re	q = 1.5	5	
	Be	arings l	3, M, &	H are a ı	igid surfa	ice.		
	Me	mbers	not liste	ed have f	orces less	s than :	375#	
_	Ma	ximum	Top C	hord Fo	rces Per	Ply (lb	s)	
	l Ch	ords T	ens Co	omo	Chords	Tens	Comp	

C - D	229 - 854	F-G	338 - 1582
D - E	316 - 1252	G-H	335 - 2049
E-F	316 - 1252		

## **Bracing**

Lumber

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

(a) Continuous lateral restraint equally spaced on

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 7-11-5.

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (	Comp.
L-K	653	- 23	J - I	1666	- 200
K - J	1285	- 109	I - H	1668	- 200

## Maximum Web Forces Per Ply (lbs)

Webs	bs Tens.Comp. Webs		Tens. Comp		
M - C	263 - 1544	E-K	142	- 479	
C-L	1070 - 102	F-J	488	- 66	
D-L	98 - 663	J - G	131	- 537	
D-K	906 - 144				



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SEQN: 315571 HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T44 FROM: CDM DrwNo: 127.20.1201.49017 Qty: 1 Williams Floor Plan Truss Label: A12 KD / YK 05/06/2020 6'2"5 11'11" 17'2"15 22'5"1 27'9' 33'5"11 39'8' 6'2"5 5'8"11 5'3"15 5'2"3 5'3"15 5'8"11 6'2"5 ≡3X4 D **∥2**X҈4 4"5 N ∥2X4 M ≡5X5 K ≡3X8  $\equiv$ 4X5(A2) =4X5(A2) ≡3X4 =5X5 ∥2X4 39'8" 6'2"5 5'8"11 5'3"15 5'3"15 5'8"11 6'2"5 5'2"3 6'2"5 11'11 17'2"15 22'5"1 27'9' 33'5"11 39'8' Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) **Defl/CSI Criteria** ▲ Maximum Reactions (lbs) Non-Gravity Wind Std: ASCE 7-10 Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity TCLL: 20.00 Pg: NA /Rw /U Speed: 130 mph Loc R+ /Rh /RL TCDL: 10.00 Pf: NA Ce: NA VERT(LL): 0.156 E 999 240 BCLL: Enclosure: Closed VERT(CL): 0.324 E 0.00 Lu: NA Cs: NA 999 180 1650 /-/912 /127 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): 0.068 I 1648 /-/-/911 /58 /-EXP: B Kzt: NA HORZ(TL): 0.141 I Wind reactions based on MWFRS Des Ld: 40.00 Mean Height: 15.00 ft Brg Width = 3.5Min Rea = 1.9NCBCLL: 10.00 Code / Misc Criteria Creep Factor: 2.0 TCDL: 5.0 psf Brg Width = -Min Reg = -Blda Code: FBC 2017 RES Max TC CSI: 0.426 Soffit: 2.00 BCDL: 5.0 psf Bearing A is a rigid surface. TPI Std: 2014 Max BC CSI: 0.664 Load Duration: 1.25 MWFRS Parallel Dist: h/2 to h Members not listed have forces less than 375# Rep Fac: Yes Max Web CSI: 0.422 Spacing: 24.0 ' C&C Dist a: 3.97 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: 0.18 445 - 2803 460 - 2284 Wind Duration: 1.60 WAVE VIEW Ver: 19.02.02B.0122.15

## Lumber

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

(a) Continuous lateral restraint equally spaced on member.

## Hangers / Ties

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

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

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

Bearing at location x=39'5" uses the following

support conditions: 39'5"
Bearing H (39'5", 9'1"2) HUS26
Supporting Member: (2)2x8 SP 2400f-2.0E (14) 0.148"x3" nails into supporting

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

## **Purlins**

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## Additional Notes

Refer to General Notes for additional information

## B - C 438 - 2360 F-G 438 - 2362 C-D 458 - 2273 G-H 446 - 2812 D-E 460 - 2283

Maximum Bot Chord Forces Per Ply (lbs)

I - K

2286 - 277

531

Chords Tens.Comp. Chords Tens. Comp. 2340 1959 A - N - 316 K-J - 221 2347 N - M 2338 - 316 .1 - 1-318 M - L 1957 - 221 1 - H 2349 - 317

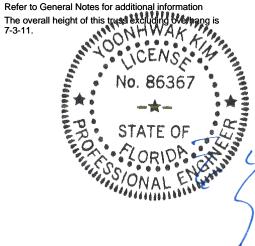
Maximum Web Forces Per Ply (lbs) Tens.Comp Tens. Comp. B - M 116 K - F 536 - 95 414 C - M 408 - 39 40 C-L

J - G

117

- 464

- 93



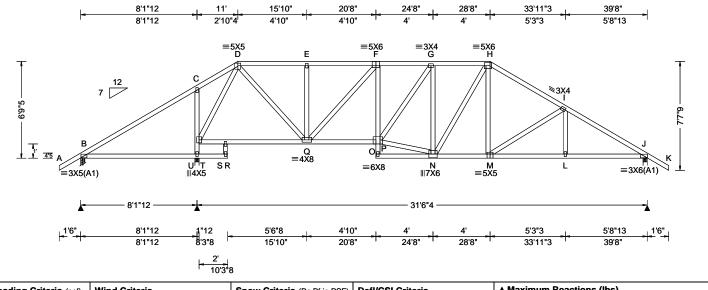
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SEQN: 314399 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T35 / FROM: CDM Qty: 1 DrwNo: 127.20.1156.17650 Williams Floor Plan Truss Label: A13 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DetI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.087 G 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.180 G 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 L
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.052 L
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.725
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.594
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.939
	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: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)						
Gravity Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	392	/-	/-	/179	/50	/149
U	1737	/-	/-	/1001	/27	/-
J	1402	/-	/-	/818	/66	/-
Win	d read	tions ba	sed on I	MWFRS		
В	Brg V	Vidth = 3	3.5	Min Re	q = 1.5	5
U	Brg V	Vidth = 3	3.5	Min Re	q = 1.7	7
J	Brg V	Vidth = 3	3.5	Min Re	q = 1.7	7
Bearings B, U, & J are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Cho	ords T	ens.Cor	np.	Chords	Tens.	Ćomp.

## Lumber

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

## **Plating Notes**

All plates are 2X4 except as noted.

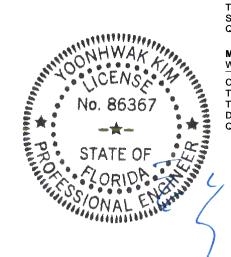
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 6-9-5

Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.



Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	392	/-	/-	/179	/50	/149
U	1737	/-	/-	/1001	/27	/-
J	1402	/-	/-	/818	/66	/-
Win	d reac	tions bas	sed on M	WFRS		
В	Brg W	/idth = 3	.5	Min Red	q = 1.5	
U	Brg W	/idth = 3	.5	Min Red	q = 1.7	
J	Brg W	/idth = 3	.5	Min Red	q = 1.7	
Bea	rings E	3, U, & J	are a rigi	d surfac	e.	
Members not listed have forces less than 375#						
Max	cimum	Top Ch	ord Forc	es Per	Ply (lbs	s)
Cho	rds T	ens.Con	np. Cl	nords	Tens.	Ćomp.

D-E	335 - 1326	G - H		- 1535
E-F	335 - 1326	H - I		- 1721
F-G	394 - 1780	I - J	350	- 2121

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (	Comp.
- s	555	- 26	N - M	1412	- 140
3 - Q	531	- 23	M - L	1752	- 225
0 - 0	1782	- 202	L-J	1754	- 225

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
C-T	166 - 450	0 - G	406	-57
T - U	228 - 1522	O - N	1581	- 171
T - D	106 - 1305	G - N	119	- 568
D - Q	1212 - 179	M - I	102	- 408
Q-F	91 - 689			

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 315574 HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T42 FROM: CDM Williams Floor Plan DrwNo: 127.20.1201.53043 Qty: 1 Truss Label: A14 KD / YK 05/06/2020 29'9" 9'11' 16'6"15 23'1"1 34'5"11 39'8" 5'2"5 5'2"5 4'8"11 6'7"15 6'6"3 6'7"15 4'8"11 5'2"5 =6X<u>6</u> ≡6X6 C ≡3X4 D ≡5X5 E 3X4 6'1"11 4"5 N ⊪2X4 =4X5(A2) M ≡5X5 K ≡3X8 ±5X5 =4X5(A2) ≡5X5 | ||2X4 39'8" 4'8"11 6'7"15 6'6"3 6'7"15 4'8"11 5'2"5 5'2"5 5'2"5 9'11' 16'6"15 23'1"1 29'9' 34'5"11 39'8' Wind Crite ▲ Maximum Reactions (lbs)

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.187 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.388 E 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.072 I
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.149 I
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.655
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.811
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.318
' "	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: 19.02.02B.0122.15

## Lumber

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

## **Bracing**

(a) Continuous lateral restraint equally spaced on member.

## Hangers / Ties

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

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

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

Bearing at location x=39'5" uses the following

support conditions: 39'5"
Bearing H (39'5", 9'1"2) HUS26
Supporting Member: (2)2x8 SP 2400f-2.0E (14) 0.148"x3" nails into supporting

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

## **Purlins**

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## Additional Notes

Refer to General Notes for additional information The overall height of this truss

## Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 1650 /-/900 /106 1648 /-/-/899 /-/61 Wind reactions based on MWFRS Brg Width = 3.5Min Rea = 1.9Brg Width = -Min Reg = -Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 462 - 2819 527 - 2730 B - C 461 - 2497 F-G 461 - 2501 C-D 524 - 2715 G-H 464 - 2830

## Maximum Bot Chord Forces Per Ply (lbs)

527 - 2730

D-E

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
A - N	2361	- 338	K-J	2102	- 265
N - M	2359	- 338	J - I	2371	- 340
M - L	2100	- 265	I - H	2372	- 340
ı v	2725	274			

## Maximum Web Forces Per Ply (lbs)

webs	rens.comp.	webs	rens. Comp.	
C-L L-D	826 - 138 122 - 420	E - K K - F	127 - 411 835 - 141	

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

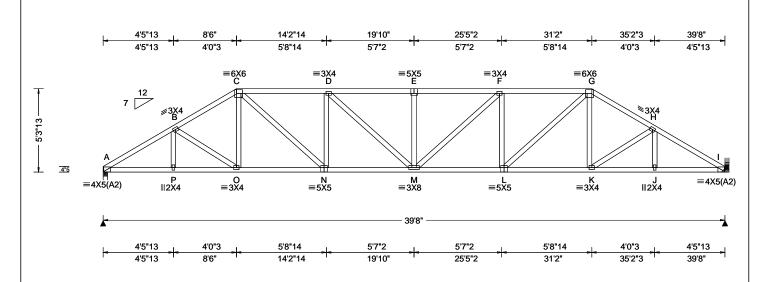
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SEQN: 315577 HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T43 FROM: CDM Williams Floor Plan DrwNo: 127.20.1201.59023 Qty: 1 Truss Label: A14A KD / YK 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.231 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.480 E 984 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.077 J
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.159 J
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.580
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.747
Spacing: 24.0 "	C&C Dist a: 3.97 ft	Rep Fac: Yes	Max Web CSI: 0.401
-, J	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: 19.02.02B.0122.15

## Lumber

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

## Hangers / Ties

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

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

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

Bearing at location x=39'5" uses the following support conditions: 39'5" Bearing I (39'5", 9'1"2) HUS26 Supporting Member: (2)2x8 SP 2400f-2.0E

(14) 0.148"x3" nails into supporting member. (4) 0.148"x3" nails into supported

## member. **Purlins**

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

## Wind

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



▲ Maximum Reactions (lbs)						
	Gravity Non-Gravity					
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
A 165	0 /-	/-	/890	/63	/91	
I 164	8 /-	/-	/890	/63	/-	
Wind re	actions b	ased on	MWFRS			
A Brg	Width =	3.5	Min Re	q = 1.9	)	
I Brg	Width =	-	Min Re	eq = -		
Bearing	A is a rig	id surfac	ce.			
Member	s not list	ed have	forces les	s than 3	375#	
Maximu	m Top C	hord Fo	orces Per	Ply (lb	s)	
Chords	Tens.Co	omp.	Chords	Tens.	Ćomp.	
А-В	474 -	2826	E-F	602	- 3244	
B-C	476 -	2584	F-G	563	- 2972	
C - D	563 -	2970	G-H	477	- 2589	
D-E	602 -	3244	H - I	476	- 2839	

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. (	Comp.
A - P	2372	- 355	M - L	3006	- 435
P - O	2372	- 356	L-K	2189	- 296
O - N	2185	- 295	K-J	2385	- 358
N - M	3004	- 435	J - I	2386	- 357

## Maximum Web Forces Per Ply (lbs)

webs	rens.comp.	webs	rens.	Comp.
C - N	1053 - 177	F-L	144	- 591
N - D	144 - 592	L-G	1051	- 176

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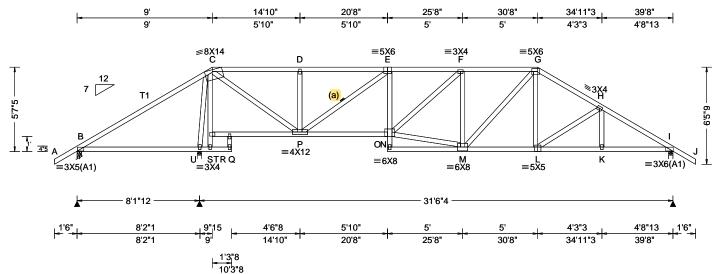
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 314401 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T27 / FROM: CDM Qty: 1 DrwNo: 127.20.1156.17388 Williams Floor Plan Truss Label: A15 KD / DF 05/06/2020



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B 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: 3.97 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.111 N 999 240 VERT(CL): 0.226 N 999 180 HORZ(LL): 0.022 K HORZ(TL): 0.045 K Creep Factor: 2.0 Max TC CSI: 0.493 Max BC CSI: 0.833 Max Web CSI: 0.721
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)						
	G	ravity	-	No	n-Gra	vity
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	362	/-6	/-	/138	/57	/128
U	1891	/-	/-	/1038	/22	/-
1	1365	/-	/-	/784	/70	/-
Win	d reac	tions bas	sed on I	MWFRS		
В	Brg W	/idth = 3	.5	Min Red	q = 1.5	5
U	Brg W	/idth = 3	.5	Min Red	q = 1.9	)
ı	Brg W	/idth = 3	.5	Min Red	q = 1.6	6
Bearings B, U, & I are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Cho	rds T	ens.Con	np.	Chords	Tens.	Comp.

## Lumber

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

## **Bracing**

(a) Continuous lateral restraint equally spaced on

## **Plating Notes**

All plates are 2X4 except as noted.

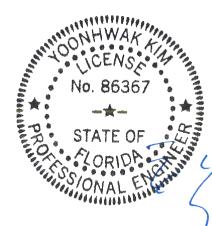
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

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

## Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Note: Laterally brace bottom chord above filler at 2'0" O.C. Max. including a lateral brace at chord ends.



ı	U Brg	Width = 3.5	Min Req = 1.9				
I Brg Width = 3.5			Min Re	eq = 1.6			
I	Bearings B, U, & I are a rigid surface.						
I	Member	s not listed have	e forces les	s than 375#			
	Maximu	ım Top Chord I	Forces Per	Ply (lbs)			
J	Chords	Tens.Comp.	Chords	Tens. Comp.			
	B-C	512 - 45	F-G	407 - 1772			
	C - D	368 - 1333	G - H	366 - 1782			
	D - E	368 - 1333	H - I	356 - 2066			
	E-F	469 - 2117					

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. (	Comp.
P - N M - L	2122 - 298 1484 - 174			- 239 - 238

## Maximum Web Forces Per Ply (lbs)

Vebs	Tens.Comp.	Webs	Tens. C	omp.
J-C	197 - 1388	N-F	438	-80
C - P	1827 - 282	N - M	1787	- 234
) - P	131 - 422	F-M	152	- 609
P - E	129 - 986	M - G	418	- 102

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SEQN: 315579 SPEC Ply: 2 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T30 FROM: CDM Williams Floor Plan DrwNo: 127.20.1202.18890 Qty: 1 Page 1 of 2 Truss Label: A16 KD / YK 05/06/2020 2 Complete Trusses Required 13'5"14 19'10" 26'2"2 32'8' 34'7" 39'8" 6'5"14 6'4"2 6'4"2 6'5"14 1'11 5'1" ≡6X8 ≅8X14(SRS) G =3X4 =7X6 =3<u>X</u>4 **≢8X14(SRS)** T1 4'5"5 3'3"14 Q P ≡3X4 =7X8 =3X8 =7X8 =3X4 =5X6 ≡̇̀5X6 39'8" 5'1" 6'5"14 6'4"2 6'4"2 6'5"14 5'1" 5'1" 13'5"14 19'10" 26'2"2 32'8" 34'7 39'8" Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) **Defl/CSI Criteria** ▲ Maximum Reactions (lbs) Non-Gravity Wind Std: ASCE 7-10 Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity TCLL: 20.00 Pg: NA Speed: 130 mph Loc R+ /Rh /Rw /U /RL TCDL: 10.00 Pf: NA VERT(LL): 0.232 E 999 240 Ce: NA BCLL: Enclosure: Closed VERT(CL): 0.465 E 0.00 Lu: NA Cs: NA 999 180 R 4139 /-/230 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): 0.051 J 4035 /-/-/-/335EXP: B Kzt: NA HORZ(TL): 0.103 J Wind reactions based on MWFRS Des Ld: 40.00 Mean Height: 15.00 ft Brg Width = 3.5R Min Rea = 1.7NCBCLL: 0.00 Code / Misc Criteria Creep Factor: 2.0 TCDL: 5.0 psf Brg Width = -Min Reg = -Blda Code: FBC 2017 RES Max TC CSI: 0.253 Soffit: 2.00 BCDL: 5.0 psf Bearing R is a rigid surface. TPI Std: 2014 Max BC CSI: 0.306 Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2 Members not listed have forces less than 375# Rep Fac: No Max Web CSI: 0.820 Spacing: 24.0 ' C&C Dist a: 3.97 ft Maximum Top Chord Forces Per Ply (lbs) FT/RT:20(0)/10(0) Loc. from endwall: not in 4.50 ft Chords Tens.Comp. Chords Tens. Comp. Plate Type(s): GCpi: 0.18 VIEW Ver: 19.02.02B.0122.15 227 - 3451 380 - 5053 WAVE Wind Duration: 1.60 C - D 329 - 4522 F-G 348 - 4512 Lumber **Plating Notes** D-E 380 - 5053 G-H 270 - 3446 Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; All plates are 2X4 except as noted. Maximum Bot Chord Forces Per Ply (lbs) Webs: 2x4 SP #3; Chords Tens.Comp. Tens. Comp. Chords In lieu of structural panels use purlins to brace all flat TC @ 24" oc. R - Q 3106 N - M 4563 - 355 - 190 (a) Continuous lateral restraint equally spaced on Q - P 3099 - 191 3011 - 239 The TC of this truss shall be braced with attached M - L P - O spans at 24" oc in lieu of structural sheathing. 3030 - 202 L-K 3119 - 252 O - N 4573 - 337 K-J 3125 - 254 Nailnote Nail Schedule:0.131"x3", min. nails

Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails

in each row to avoid splitting.

## **Special Loads**

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 63 plf at 32 plf at 0.00 to 7.00 to 63 plf at 32 plf at TC: From TC: From BC: From 39.67 10 plf at 0.00 to 186 lb Conc. Load at 6.60 190 lb Conc. Load at 8.60,10.60,12.60,14.60 16.60,18.60,20.60,22.60,24.60,26.60,28.60,30.60 32.60 TC: 87 lb Conc. Load at 34.60,36.60,38.60 BC: 285 lb Conc. Load at 0.60 272 lb Conc. Load at 2.60, 4.60 133 lb Conc. Load at 6.60 BC: 130 lb Conc. Load at 8.60,10.60,12.60,14.60 16.60,18.60,20.60,22.60,24.60,26.60,28.60,30.60

BC: 248 lb Conc. Load at 34.60,36.60,38.60

wind
Wind loads and reactions based on MWFR
End verticals not exposed to wind pressure

## Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp.		Tens. Comp.
217 - 3559	N-F	583 -30
1758 - 150	F-M	104 - 711
116 - 706	M - G	1769 - 128
571 -51	G-L	436 0
78 - 380	H - J	290 - 3572
	1758 - 150 116 - 706 571 - 51	217 - 3559 N - F 1758 - 150 F - M 116 - 706 M - G 571 - 51 G - L

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SEQN: 315579 SPEC Ply: 2 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T30 DrwNo: 127.20.1202.18890 FROM: CDM Williams Floor Plan Qty: 1 Page 2 of 2 Truss Label: A16 KD / YK 05/06/2020

## Hangers / Ties

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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=39'5" uses the following support conditions: 39'5" Bearing J (39'5", 9'1"2) HGUS28-2 Supporting Member: (2)2x8 SP 2400f-2.0E (36) 0.148"x3" nails into supporting member (6) 0.148"x3" nails into supported member.

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 4-5-5.



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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 314403 / HIPS Ply: 2 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T19 / Qty: 1 DrwNo: 127.20.1156.17792 FROM: CDM Williams Floor Plan Page 1 of 2 Truss Label: A17 KD / DF 05/06/2020 2 Complete Trusses Required 14'5"12 20'8" 26'8" 32'8' 39'8" 1'1"12 6'4' 6'2"4 =4X8 1∥7X6 C ≡5X6 ≡3X4 =5X6 F W3 T 4'5 B2 O TS<sup>™</sup>R ≡3X4 ≡3X5 =6X10 QΡ ≡H1010 K ≡5X5 ≡7X8 =3X5(A1) 8'1"12 31'6"4 1'1"12 4'2"4 6'2"4 8'1"12 14'5"12 20'8" 26'8' 32'8 2'1"12 10'3"8 Loading Criteria (psf) **Wind Criteria** Snow Criteria (Pg,Pf in PSF) **Defl/CSI Criteria** ▲ Maximum Reactions (lbs) Wind Std: ASCE 7-10 PP Deflection in loc L/defl L/# TCLL: 20.00 Ct: NA CAT: NA Pg: NA Speed: 130 mph TCDL: 10.00 Pf: NA Ce: NA VERT(LL): 0.221 M 999 240 BCLL: 0.00 Enclosure: Closed VERT(CL): 0.444 M Lu: NA Cs: NA 851 180 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): -0.046 H EXP: B Kzt: NA HORZ(TL): 0.094 H Des Ld: 40.00 Mean Height: 15.00 ft NCBCLL: 0.00 Code / Misc Criteria Creep Factor: 2.0 TCDL: 5.0 psf Blda Code: FBC 2017 RES Max TC CSI: 0.775 Soffit: 2.00 BCDL: 5.0 psf TPI Std: 2014 Max BC CSI: 0.802 Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2 Rep Fac: No Max Web CSI: 0.931 Spacing: 24.0 ' C&C Dist a: 3.97 ft FT/RT:20(0)/10(0) Loc. from endwall: not in 9.00 ft Plate Type(s): GCpi: 0.18 VIEW Ver: 18.02.01B.0321.08 Wind Duration: 1.60 WAVE, HS

## Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; Webs: 2x4 SP #3; W3,W4,W9 2x4 SP #2;

## **Nailnote**

Nail Schedule:0.131"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

in each row to avoid splitting.

## **Special Loads**

19.06,20.60

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)					
TC: From	63 plf at	-1.50 to	63 plf at	7.00	
TC: From	32 plf at	7.00 to	32 plf at	32.67	
TC: From	63 plf at	32.67 to	63 plf at	41.17	
BC: From	5 plf at	-1.50 to	5 plf at	0.00	
BC: From		0.00 to	20 plf at	7.03	
BC: From		7.03 to	10 plf at	32.64	
	20 plf at		20 plf at	39.67	
BC: From		39.67 to	5 plf at	41.17	
	Conc. Load				
	Conc. Load	at 9.06,22	.60,24.60,20	6.60	
28.60,30.60					
TC: 205 lb	Conc. Load	at 11.06,13	3.06,15.06,1	7.06	
19.06,20.60					
	Conc. Load				
BC: 130 lb	Conc. Load	at 9.06,22	.60,24.60,2	6.60	
28.60,30.60					
BC: 106 lb	Conc. Load	at 11.06,13	3.06,15.06,1	7.06	

Note: Laterally brace bottom chord above filler at 2'0" O.C.

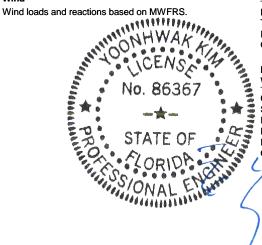
Max. including a lateral brace at chord ends.

## **Plating Notes**

All plates are 2X4 except as noted.

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

## Wind



	G	ravity		Non-Gravity		
Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
В	_	/-321	/-	/9	/-	/-
s	4908	/-	/-	/-	/327	/-
1	2874	/-	/-	/-	/187	/-
Win	d reac	tions ba	sed on I	MWFRS		
В	Brg W	/idth = 3	.5	Min Re	q = 1.5	;
S	Brg W	/idth = 3	.5	Min Re	q = 2.5	;
1	Brg W	/idth = 3	.5	Min Re	q = 1.7	•
Bearings B, S, & I are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Cho	rds T	ens.Con	np.	Chords	Tens.	Comp.

F-G B - C - 3658 506 - 57 283 C-D 521 - 40 G-H 202 - 2834 165 - 2115 D-E H - I 158 - 2450 F-F 165 - 2115

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B - T	41	- 419	O - M	3683	- 287
T - S	42	- 412	L-K	2077	- 125
R-Q	30	- 395	K-I	2065	- 126
Q - Q	35	- 492			

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
C-S	0 -537	F-M	391	0
S-R	173 - 1765	M - G	898	- 87
R - D	176 - 1733	M - L	2797	- 202
D - O	2919 - 224	G-L	125	- 809
E - O	85 - 422	L-H	920	- 94
0 - F	136 - 1757			

FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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SEQN: 314403 / HIPS Ply: 2 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T19 / FROM: CDM DrwNo: 127.20.1156.17792 Williams Floor Plan Qty: 1 Page 2 of 2 Truss Label: A17 KD / DF 05/06/2020

## **Additional Notes**

Refer to General Notes for additional information Negative reaction(s) of -321# MAX. from a non-wind load case requires uplift connection. See Maximum

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



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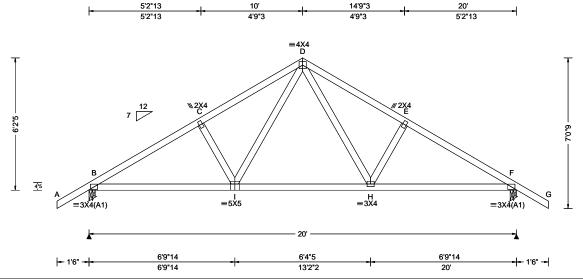
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SEQN: 314404 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T9 / FROM: CDM DrwNo: 127.20.1156.17869 Qty: 6 Williams Floor Plan Truss Label: B01 KD / DF 05/06/2020



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA		Gravity Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.038 H 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.074 H 999 180	B 975 /- /- /533 /34 /131
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.016 H	F 975 /- /- /533 /34 /-
Des Ld: 40.00 EXP: B Kzt: NA		HORZ(TL): 0.031 H	Wind reactions based on MWFRS
NCBCLL: 10.00 Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 3.5 Min Req = 1.5
Soffit: 2.00 BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.253	F Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.524	Bearings B & F are a rigid surface.
Spacing: 24.0 " C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.176	Members not listed have forces less than 375#
Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	. , . ,		Chords Tens.Comp. Chords Tens. Comp.
GCpi: 0.18	Plate Type(s):		D 0 450 4000 D E 400 440
Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	B-C 159 - 1326 D-E 190 - 1184 C-D 191 - 1182 E-F 159 - 1328

## Lumber

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

## Loading

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

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

## **Additional Notes**

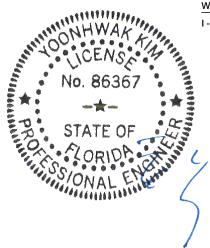
Refer to General Notes for additional information The overall height of this truss excluding overhang is

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

		-			-	
B - I	1079	- 49	H-F	1080	-66	
- H	737	0				

## Maximum Web Forces Per Ply (lbs)

/ebs	Tens.Comp.		Webs	Tens. Comp.		
- D	457	- 66	D-H	461	- 66	



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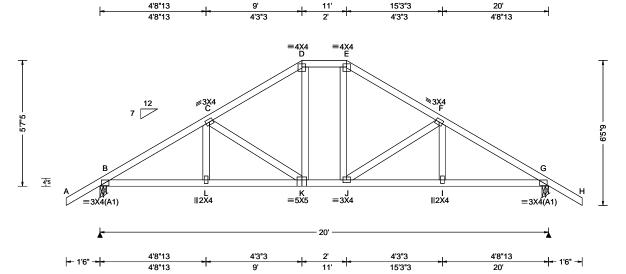
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SEQN: 314405 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T8 / FROM: CDM DrwNo: 127.20.1156.18104 Qty: 2 Williams Floor Plan Truss Label: B02 KD / DF 05/06/2020



	▲ Ma	ximu	ım Rea	ctions	(lbs)		
		G	ravity		No	on-Gra	vity
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	В	933	/-	/-	/533	/36	/121
	G 9	933	/-	/-	/533	/36	/-
	Wind	l reac	tions ba	ased on	<b>MWFRS</b>		
	В	Brg V	Vidth = 3	3.5	Min Re	q = 1.5	5
	G Brg Width = 3.5			Min Req = 1.5			
	Bear	ings l	B&Ga	re a rigi	d surface.	•	
	Mem	bers	not liste	d have	forces less	s than :	375#
	Maxi	mum	Top C	hord F	orces Per	Ply (lb	s)
	Chor	ds T	ens.Co	mp.	Chords	Tens.	Comp.
	В-С		177	1262		180	- 941
	C-D			941	F-G	177	- 9 <del>4</del> 1 - 1262
					r - G	177	- 1202
	D - E		175 -	750			

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

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind loads based on MWFRS with additional C&C

## **Additional Notes**

Top chord: 2x4 SP #2;

Refer to General Notes for additional information The overall height of this truss excluding overhang is

## Maximum Bot Chord Forces Per Ply (lbs) Tens. Comp. Chords Tens.Comp. Chords B - L 1027 - 63 1025 -85 1 - G 1027 L-K 1025 -63 -85 K - J 750 - 13



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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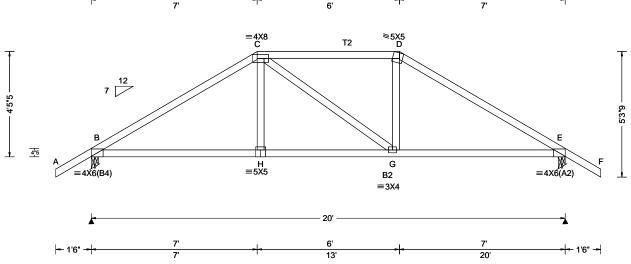
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SEQN: 314406 / HIPS Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T15 / FROM: CDM Qty: 1 DrwNo: 127.20.1156.17806 Williams Floor Plan Truss Label: B03 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ib	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.078 H 999 240 VERT(CL): 0.156 H 999 180 HORZ(LL): 0.033 G	B 1867 /- /- E 1867 /- /- Wind reactions based on M B Brg Width = 3.5 E Brg Width = 3.5 Bearings B & E are a rigid Members not listed have for Maximum Top Chord For Chords Tens.Comp.	Min Req = 2.2 Min Req = 1.5 surface. orces less than 375#

## Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31; Bot chord: 2x4 SP #2; B2 2x4 SP M-31; 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	13.00
TC: From	63 plf at	13.00 to	63 plf at	21.50
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	12.97
BC: From	20 plf at	12.97 to	20 plf at	20.00
BC: From	5 plf at	20.00 to	5 plf at	21.50
TC: 269 lb	Conc. Load	at 7.03,12	.97	
TC: 190 lb	Conc. Load	at 9.06,10	.94	
BC: 470 lb	Conc. Load	at 7.03,12	.97	
BC: 130 lb	Conc. Load	at 9 06 10	94	

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

## Wind

Wind loads and reactions based on MWFRS.

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 4-5-5.

## Maximum Bot Chord Forces Per Ply (lbs)

			Tens.Comp. Chords Tens. C		
B-H H-G	2479 2502		G-E	2476	-86

## Maximum Web Forces Per Ply (lbs)

Vebs Tens.Comp.		Webs	Tens. Comp.		
C - H	672	0	G-D	683	0



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FROM: CDM DrwNo: 127.20.1156.17389 Williams Floor Plan Qty: 1 Truss Label: B03A KD / DF 05/06/2020 13' 20 6 ≅4X5 D 4"5 H ≡7X6 =3X6(Ã1)  $\equiv 4\hat{X}6(A1)$ 6 <del>-</del> 1'6" <del>-</del> **-** 1'6" <del>--</del> 13 20'

Loading Criteria (psf)	Wind Criteria
TCLL: 20.00	Wind Std: ASCE 7-10
TCDL: 10.00	Speed: 130 mph
BCLL: 0.00	Enclosure: Closed
BCDL: 10.00	Risk Category: II
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to C&C Dist a: 3.00 ft
	Loc. from endwall: not in 9.

h/2 .00 ft GCpi: 0.18 Wind Duration: 1.60

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

Code / Misc Criteria Blda Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE

## **Defl/CSI Criteria**

PP Deflection in loc L/defl L/# VERT(LL): 0.068 H 999 240 VERT(CL): 0.138 H 999 180 HORZ(LL): 0.017 G HORZ(TL): 0.035 G Creep Factor: 2.0 Max TC CSI: 0.714 Max BC CSI: 0.270 Max Web CSI: 0.825

VIEW Ver: 18.02.01B.0321.08

## ▲ Maximum Reactions (lbs)

Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 1983 /-1538 /-/-Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.6Brg Width = 3.5 Min Req = 1.5 Bearings B & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 50 - 3244

Cust: R 215 JRef: 1WV12150006 T7 /

## Lumber

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

## **Special Loads**

SEQN: 314407 /

HIPS

Ply: 1

Job Number: 20-4127

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 63 plf at 5 plf at 20 plf at TC: From -1.50 to 63 plf at 5 plf at 21.50 BC: From 0.00 BC: From 0.00 to 20 plf at 20.00 5 plf at 20.00 to BC: From 5 plf at 269 lb Conc. Load at 7.03 88 lb Conc. Load at 7.60 470 lb Conc. Load at 7.03 BC: 827 lb Conc. Load at 7.60

## **Purlins**

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind loads and reactions based on MWFRS.

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

THIS TRUSS MUST BE INSTALLED AS SHOWN AND NOT END FOR END.

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Com		
	2715 2765		G-E	1972	- 31	

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
-	1374	-	G-D	752	0



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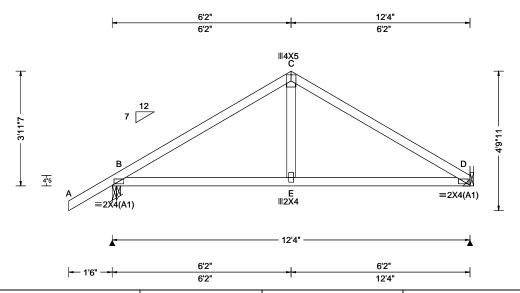
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314408 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T10 / DrwNo: 127.20.1156.17511 FROM: CDM Qty: 2 Williams Floor Plan Truss Label: B04 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.008 E 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.016 E 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 E
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.008 E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.386
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.401
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.105
' "	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: 18.02.01B.0321.08

## ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 623 /359 /81 504 /-/284 /-Wind reactions based on MWFRS Brg Width = 3.5Min Rea = 1.5Brg Width = -Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 116 - 642 C-D 121

## Lumber

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

## Hangers / Ties

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

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

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

Bearing at location x=12'1" uses the following support conditions: 12'1"
Bearing D (12'1", 9'1"2) LUS26

Supporting Member: (1)2x6 SP 2400f-2.0E

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

(3) 0.148"x3" nails into supported member.

## Wind

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords Tens. Co		Comp.	
B-E	481	- 36	E - D	481	- 36	



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

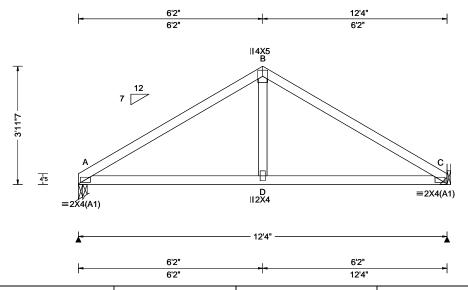
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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SEQN: 314409 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T16 / DrwNo: 127.20.1156.17651 FROM: CDM Williams Floor Plan Qty: 1 Truss Label: B05 KD / DF 05/06/2020



Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.007 D 999 240	١.
	Lu: NA Cs: NA	VERT(CL): 0.015 D 999 180	١.
	Snow Duration: NA	HORZ(LL): 0.005 D	١,
		HORZ(TL): 0.010 D	1
3	Code / Misc Criteria	Creep Factor: 2.0	١.
•	Bldg Code: FBC 2017 RES	Max TC CSI: 0.394	1
	TPI Std: 2014	Max BC CSI: 0.408	
	Rep Fac: Yes	Max Web CSI: 0.107	
	FT/RT:20(0)/10(0)		Ľ
GCpi: 0.18	Plate Type(s):		] :
Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	] .
	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18  Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Pg: NA

▲ Maximum Reactions (lbs)							
	(	Gravity		N	on-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
Α	514	/-	/-	/286	/-	/62	
С	512	/-	/-	/285	/-	/-	
Wir	nd rea	ctions b	ased on	MWFRS			
Α	Brg \	Width =	3.5	Min Req = 1.5			
С	Brg \	Width =	-	Min Req = -			
Bea	aring A	A is a rig	id surfa	ce.			
Mei	mbers	not liste	ed have	forces les	s than	375#	
Maximum Top Chord Forces Per Ply (lbs)							
Cho	ords	Tens.Co	mp.	Chords	Tens.	Comp.	
Α-	В	127	-658	B - C	127	- 658	

## Lumber

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

## Hangers / Ties

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

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

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

Bearing at location x=12'1" uses the following support conditions: 12'1"
Bearing C (12'1", 9'1"2) LUS26

Supporting Member: (1)2x6 SP 2400f-2.0E (4) 0.148"x3" nails into supporting

member. (3) 0.148"x3" nails into supported member.

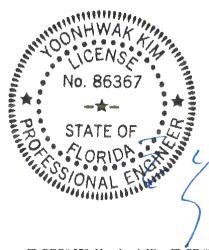
## Wind

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 499 D-C 499



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

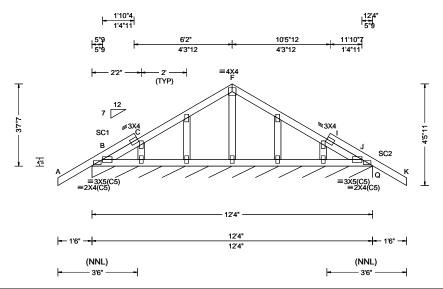
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 314410 / GABL Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T5 / DrwNo: 127.20.1156.17510 FROM: CDM Williams Floor Plan Qty: 1 Truss Label: C01 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 F 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 F 999 180	Q* 100 /- /- /50 /3 /7
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 D	Wind reactions based on MWFRS
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.001 D	Q Brg Width = 148 Min Req = -
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Bearing B is a rigid surface.
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.182	Members not listed have forces less than 375#
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.026	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.029	
' -	Loc. from endwall: Any	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumbor		•		•

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.

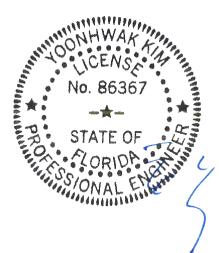
Wind loads based on MWFRS with additional C&C member design.

## **Additional Notes**

Refer to General Notes for additional information See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

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



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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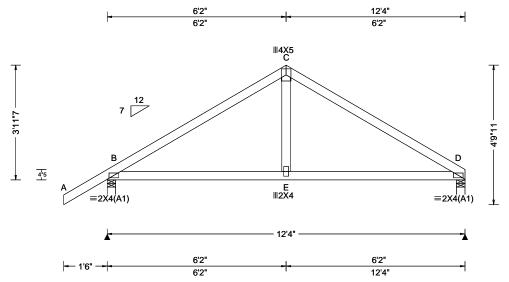
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SEQN: 314411 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T4 / FROM: CDM DrwNo: 127.20.1156.17385 Qty: 1 Williams Floor Plan Truss Label: C02 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ib	s)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.007 E 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.014 E 999 180	B 622 /- /-	/358 /26 /81
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 E	D 505 /- /-	/284 /11 /-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.008 E	Wind reactions based on M	/WFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 3.5	Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.382	D Brg Width = 3.5	Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.397	Bearings B & D are a rigid s	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.105	Members not listed have fo	
Spacing. 24.0		FT/RT:20(0)/10(0)	max rros con crros	Maximum Top Chord Fore	• • •
	Loc. from endwall: Any	. , , , ,		Chords Tens.Comp. C	Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):	\(\(\tau_{\text{\tint{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	B-C 140 -640 C	C - D 139 - 636
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	15-C 140 -040 C	ים - יים יי

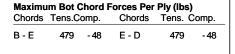
## Lumber

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is





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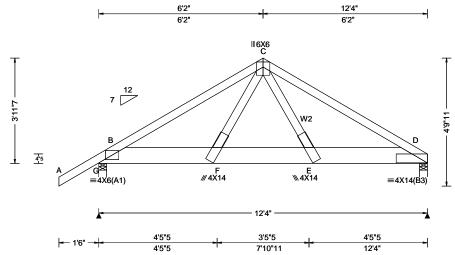
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 315582 COMN Ply: 2 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T18 FROM: CDM Williams Floor Plan DrwNo: 127.20.1202.34390 Qty: 1 Truss Label: C03 KD / YK 05/06/2020

## 2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criter
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.06
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.12
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.0
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.02
NCBCLL: 0.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI:
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI:
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI:
-1 3	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	\\/ \\/E	VIEW Vor: 10.0

I/CSI Criteria	▲ Maxir	num Re	actions (	lbs)		
Deflection in loc L/defl L/#		Gravity			on-Grav	•
RT(LL): 0.064 E 999 240	Loc R	- /R-	/ Rh	/ Rw	/ U	/ RL
RT(CL): 0.128 E 999 180	G 313	5 /-	/-	/-	/212	/-
RZ(LL): 0.011 E	D 692	0 /-	/-	/-	/380	/-
RZ(TL): 0.022 E	Wind re	actions b	pased on	MWFRS		
ep Factor: 2.0			3.5			
x TC CSI: 0.725	D Brg	Width =	3.5	Min Re	q = 2.9	
k BC CSI: 0.488	Bearing	s G & D	are a rigio	d surface.		
Web CSI: 0.738	Member	rs not list	ted have f	orces les	s than 3	75#
Web Col. 0.750	Maximu	ım Top (	Chord Fo	rces Per	Ply (lbs	s)
	Chords	Tens.C	omp.	Chords	Tens.	Comp.
W Ver: 19.02.02B.0122.15	B - C	191 -	2868	C - D	278	- 4286

## Lumber

Top chord: 2x4 SP #2; Bot chord: 2x8 SP 2400f-2.0E; Webs: 2x4 SP #3; W2 2x4 SP #2;

## **Nailnote**

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @ 12.00" o.c. Bot Chord: 2 Rows @ 4.50" o.c. (Each Row) Webs :1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.

## **Special Loads**

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)								
TC: From	63 plf at	-1.50 to	63 plf at	12.33				
BC: From	5 plf at	-1.50 to	5 plf at	0.00				
BC: From	20 plf at	0.00 to	20 plf at	7.12				
BC: From	10 plf at	7.12 to	10 plf at	12.33				
BC: 4035 lb	Conc. Load	at 7.12	•					

BC: 1648 lb Conc. Load at 8.56, 9.98,11.98

## Wind

Wind loads and reactions based on MWFRS.

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

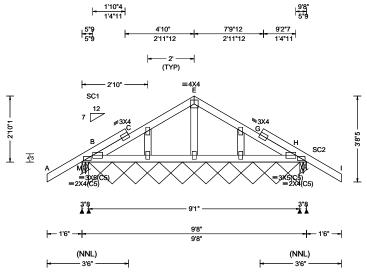


Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

2445 - 158 3676 - 234 2226 - 148 F-E

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. F-C 494 C-E 3271 - 194 SEQN: 314413 / GABL Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T2 / DrwNo: 127.20.1156.17837 FROM: CDM Williams Floor Plan Qty: 1 Truss Label: D01 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-10	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 G 999 240	)
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 L 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 F	
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.000 F	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.182	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.034	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.025	
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumber	•	•	•	_

<b>▲</b> M	laxim	ım Rea	ctions (I	bs), or *=	:PLF	
	G	ravity	•	. No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
М	262	/-	/-	/156	/18	/77
М*	53	/-	/-	/31	/-	/-
Н	262	/-	/-	/167	/18	/-
Wir	nd read	ctions b	ased on I	MWFRS		
М	Brg V	Vidth =	3.5	Min Re	q = 1.5	5
М	Brg V	Vidth =	109	Min Reg = -		
Н	H Brg Width = 3.5			Min Re	q = 1.5	5
Bearings M, M, & H 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; Stack Chord: SC1 2x4 SP #2;

Stack Chord: SC2 2x4 SP #2;

## **Plating Notes**

All plates are 2X4 except as noted.

Gable end supports 8" max rake overhang. Top chord must not be cut or notched.

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

## **Additional Notes**

Refer to General Notes for additional information See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

The overall height of this truss excluding overhang is 2-10-1.



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

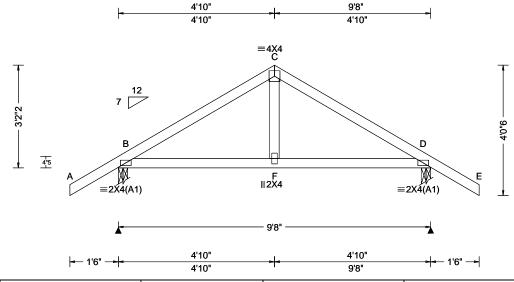
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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



SEQN: 314414 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T1 / FROM: CDM DrwNo: 127.20.1156.17604 Qty: 2 Williams Floor Plan Truss Label: D02 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.005 F 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.010 F 999 180	B 504 /- /- /297 /22 /79
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 F	D 504 /- /- /297 /22 /-
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.005 F	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 3.5 Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.182	D Brg Width = 3.5 Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.223	Bearings B & D are a rigid surface.
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.078	Members not listed have forces less than 375#
-, 3	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		Onords rens. Comp. Chords rens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	B-C 93 -455 C-D 94 -455

## Lumber

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



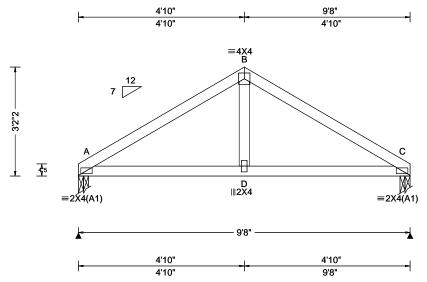
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*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 to chord shall have 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.



SEQN: 314415 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T3 / FROM: CDM DrwNo: 127.20.1156.18026 Qty: 1 Williams Floor Plan Truss Label: D03 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Max
TCLL: 20.00	Wind Std: ASCE 7-10	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 D 999 240	Loc F
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.009 D 999 180	A 40
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 D	C 40
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.005 D	Wind I
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	A B
Soffit: 2.00		Bldg Code: FBC 2017 RES	Max TC CSI: 0.218	C B
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.242	Bearin
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.081	Memb
Opaonig. 2 1.0	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Maxim
	GCpi: 0.18	Plate Type(s):		Chord
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	A - B
			I .	ı

▲ M	axim	um Rea	ctions (	(lbs)					
Gravity				Non-Gravity					
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
Α	402	/-	/-	/223	/9	/48			
С	402	/-	/-	/223	/9	/-			
Wind reactions based on MWFRS									
Α	Brg \	Nidth =	3.5	Min Req = 1.5					
C Brg Width = 3.5				Min Req = 1.5					
Bearings A & C are a rigid surface.									
Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)									
A - I	В	110	-500	B - C	110	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens. Comp.

Chords Tens.Comp.

## Lumber

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is





FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

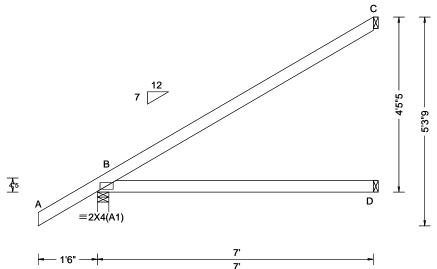
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SEQN: 314416 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T14 / FROM: CDM DrwNo: 127.20.1156.18118 Qty: 26 Williams Floor Plan Truss Label: J01 KD / DF 05/06/2020



			•		
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	os)
TCLL: 20.00 TCDL: 10.00	Wind Std: ASCE 7-10 Speed: 130 mph	l ' -	PP Deflection in loc L/defl L/# VERT(LL): NA	Gravity Loc R+ /R- /Rh	Non-Gravity / Rw / U / RL
BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00	Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft	Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria	VERT(CL): NA HORZ(LL): 0.014 D HORZ(TL): 0.027 D Creep Factor: 2.0	B 412 /- /- D 130 /- /- C 190 /- /- Wind reactions based on M	/257 /- /96 /83 /- /- /91 /41 /- /WFRS
Soffit: 2.00 BCDL: 5.0 psf Load Duration: 1.25 MWFRS Paral Spacing: 24.0 " C&C Dist a: 3.1 Loc. from endv	•	Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	•	0.730 B Brg Width = 3.5 0.520 D Brg Width = 1.5 C Brg Width = 1.5	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

#### Lumber

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

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

#### Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 4-5-5.



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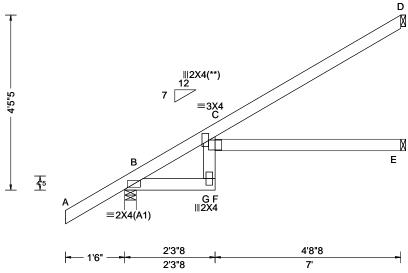
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

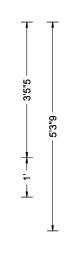
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 314417 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T36 / FROM: CDM DrwNo: 127.20.1156.18009 Qty: 6 Williams Floor Plan Truss Label: J01A KD / DF 05/06/2020





TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft	Pg: NA Ct: NA CAT: N Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	TCDL: 5.0 psf BCDL: 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	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

iteria (Pg,Pf in PSF)	DefI/CSI Criteria
Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
Ce: NA	VERT(LL): 0.171 F 480 240
Cs: NA	VERT(CL): 0.344 F 238 180
ration: NA	HORZ(LL): 0.107 C
	HORZ(TL): 0.215 C
isc Criteria	Creep Factor: 2.0
e: FBC 2017 RES	Max TC CSI: 0.923
2014	Max BC CSI: 0.346
Yes	Max Web CSI: 0.389
(0)/10(0)	
e(s):	
	VIEW Ver: 18.02.01B.0321.08

A N	laxim	um Rea	ections (I	bs)			
	G	avity		No	Non-Gravity		
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	412	/-	/-	/257	/-	/96	
Е	106	/-	/-	/68	/-	/-	
D	205	/-	/-	/106	/39	/-	
Wir	nd read	ctions b	ased on I	<b>MWFRS</b>			
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	5	
Е	Brg V	Vidth =	1.5	Min Re	q = -		
D	Brg V	Vidth =	1.5	Min Re	q = -		
Bearing B is a rigid surface.				е.	-		
Members not listed have f				orces less	s than	375#	
-							

#### Lumber

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

## **Plating Notes**

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

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

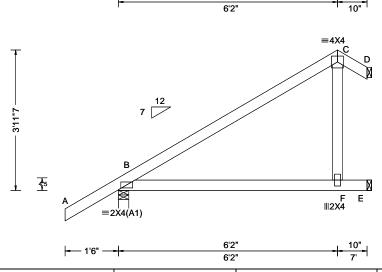
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SEQN: 314418 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T37 / FROM: CDM DrwNo: 127.20.1156.17978 Qty: 3 Williams Floor Plan Truss Label: J01B KD / DF 05/06/2020

6'2"



35"10   4'9"11
-------------------

Loading Criteria (psf)	Wind Criter
TCLL: 20.00	Wind Std: A
TCDL: 10.00	Speed: 130
BCLL: 0.00	Enclosure: C
BCDL: 10.00	Risk Catego
Des Ld: 40.00	EXP: B Kzt
NCBCLL: 10.00	Mean Height
Soffit: 2.00	TCDL: 5.0 p: BCDL: 5.0 p
Load Duration: 1.25	MWFRS Pai
Spacing: 24.0 "	C&C Dist a:
- Opaog	Loc. from en
	GCn

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to

Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

#### **Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.040 C 999 240 VERT(CL): 0.080 C 999 180 HORZ(LL): 0.050 D HORZ(TL): 0.100 D

Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.469 Max Web CSI: 0.213

VIEW Ver: 18.02.01B.0321.08

▲ M	axim	um Rea	ctions (II	os)
	G	avity		
	ъ.	/ D	/ DL	,

	= maximum reactions (ibs)						
Gravity			-	Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL	
В	412	/-	/-	/256	/5	/80	
Ε	248	/-	/-	/124	/41	/-	
D	87	/-	/-	/66	/1	/-	
Wi	Wind reactions based on MWFRS						
В	B Brg Width = 3.5			Min Req = 1.5			
Е	E Brg Width = 1.5			Min Req = -			

D Brg Width = 1.5 Min Rea = -Bearing B is a rigid surface.

Members not listed have forces less than 375#

#### Lumber

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

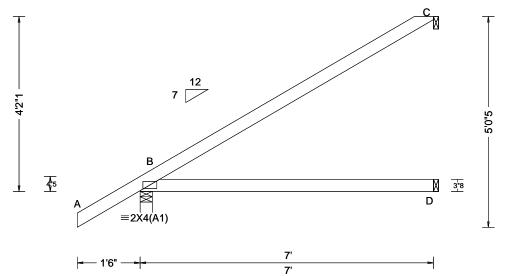
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314419 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T6 / FROM: CDM DrwNo: 127.20.1156.17542 Qty: 1 Williams Floor Plan Truss Label: J01C KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ibs	;)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 408 /- /-	/255 /- /61
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 D	D 133 /- /-	/82 /- /-
Des Ld: 40.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.026 D	C 186 /- /-	/82 /14 /-
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MV	-
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.694	. •	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.514		Min Req = - Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearing B is a rigid surface.	wiiii ixeq = -
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Members not listed have for	ces less than 375#
	GCpi: 0.18	Plate Type(s):		inclination for listed flave for	700 1000 that 010#
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

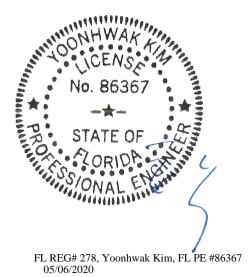
#### Lumber

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

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

#### Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



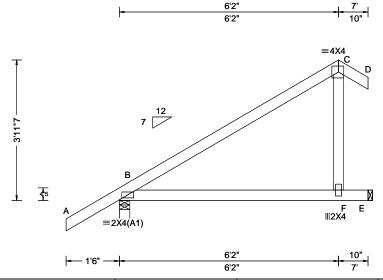
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\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 314420 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T17 / FROM: CDM DrwNo: 127.20.1156.17728 Qty: 2 Williams Floor Plan Truss Label: J01D KD / DF 05/06/2020



35"10	4'9"11
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Loading Criteria (psf)	Wind Criteria
TCLL: 20.00	Wind Std: ASCE
TCDL: 10.00	Speed: 130 mph
BCLL: 0.00	Enclosure: Closed
BCDL: 10.00	Risk Category: II
Des Ld: 40.00	EXP: B Kzt: NA
	Mean Height: 15.0
NCBCLL: 10.00	TCDL: 5.0 psf
Soffit: 2.00	BCDL: 5.0 psf
Load Duration: 1.25	MWFRS Parallel D
Spacing: 24.0 "	C&C Dist a: 3.00 ft
	Loc. from endwall:
	GCni: 0.19

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2
C&C Dist at 3.00 ft

_,
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

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

#### **Defl/CSI Criteria** PP Deflection in loc L/defl L/# VERT(LL): 0.042 C 999 240 VERT(CL): 0.080 C 999 180

HORZ(TL): 0.098 D Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.518 Max Web CSI: 0.223

HORZ(LL): 0.049 D

VIEW Ver: 18.02.01B.0321.08

# ▲ Maximum Reactions (lbs)

В

Gravity			Non-Gravity						
oc R	+ /R-	/ Rh	/ Rw	/ U	/ RL				
412	2 /-	/-	/256	/-	/59				
272	2 /-	/-	/165	/-	/-				
lind r	ind reactions based on MMEDS								

Wind reactions based on MWFRS Brg Width = 3.5 Min Reg = 1.5В Brg Width = 1.5 Min Req = -

Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

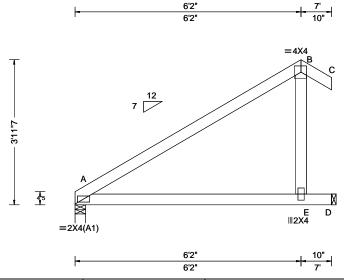
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314421 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T28 / FROM: CDM DrwNo: 127.20.1156.18165 Qty: 1 Williams Floor Plan Truss Label: J01E KD / DF 05/06/2020



Coading Criteria (psf)	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPl Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0)	PD Deflection in loc L/defl L/# VERT(LL): 0.044 B 999 240 VERT(CL): 0.083 B 985 180 HORZ(LL): 0.053 C HORZ(TL): 0.110 C Creep Factor: 2.0 Max TC CSI: 0.641 Max BC CSI: 0.537 Max Web CSI: 0.246
	ion: 1.25 MWFRS Parallel Dist: > 2h	Rep Fac: Yes	
Lumbar	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

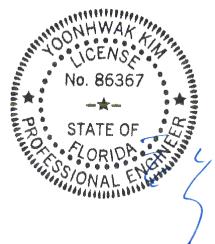
#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 297 /178 /48 285 /-/-/174 /-Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5Brg Width = 1.5 Min Req = -Bearing A is a rigid surface. Members not listed have forces less than 375#

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

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

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is



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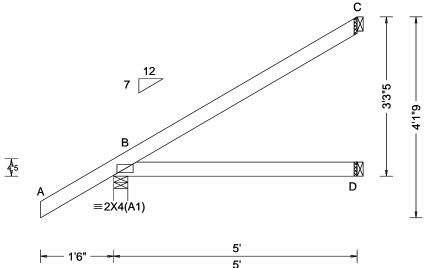
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 314422 / **JACK** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T11 / FROM: CDM DrwNo: 127.20.1156.17262 Qty: 10 Williams Floor Plan Truss Label: J02 KD / DF 05/06/2020



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- · · · · · · · · · · · · · · · · · · ·	nd Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	•
TCLL: 20.00   Wir	nd Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00   Spe	eed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh	/Rw /U /RL
DCLL. 0.00	closure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 335 /- /-	/211 /2 /73
1 BCDL. 10.00 1	sk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D	D 90 /- /-	/59 /- /-
Doc   d   40 00	(P: B Kzt: NA ean Height: 15.00 ft		HORZ(TL): 0.008 D	C 129 /- /-	/61 /28 /-
I NICECLL 10 00	DL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	
0.00	DL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.319	B Brg Width = 3.5	Min Req = 1.5
1	VFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.251	D Brg Width = 1.5	Min Req = -
1	C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	C Brg Width = 1.5	Min Req = -
1 . •	c. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Bearing B is a rigid surface	
	GCpi: 0.18	Plate Type(s):		Members not listed have fo	rces less than 3/5#
Wir	nd Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	1	

#### Lumber

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

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

#### Additional Notes

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



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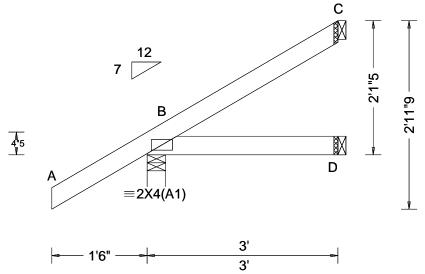
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SEQN: 314423 / **JACK** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T12 / FROM: CDM DrwNo: 127.20.1156.17636 Qty: 10 Williams Floor Plan Truss Label: J03 KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (It	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 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	, <b>o</b> . ,	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 D HORZ(TL): 0.001 D Creep Factor: 2.0	Gravity  Loc R+ /R- /Rh  B 265 /- /- D 50 /- /- C 63 /- /- Wind reactions based on M B Brg Width = 3.5 D Brg Width = 1.5 C Brg Width = 1.5 Bearing B is a rigid surface Members not listed have for	Min Req = 1.5 Min Req = - Min Req = -

#### Lumber

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

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

#### Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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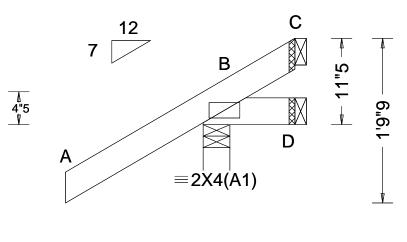
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SEQN: 314424 / **JACK** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T13 / FROM: CDM DrwNo: 127.20.1156.17714 Qty: 10 Williams Floor Plan Truss Label: J04 KD / DF 05/06/2020





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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ib	os)
TCLL: 20.00	Wind Std: ASCE 7-10	3	PP Deflection in loc L/defl L/#	Gravity Loc R+ / R- / Rh	Non-Gravity / Rw / U / RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	LOC R+ /R- /RII	/ RW / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 257 /- /-	/174 /29 /28
BCDL: 10.00	Risk Category: II EXP: B Kzt: NA	Snow Duration: NA	HORZ(LL): -0.000 D	D 5 /-17 /-	/11 /13 /-
Des Ld: 40.00	Mean Height: 15.00 ft		HORZ(TL): 0.001 D	C - /-55 /-	/19 /46 /-
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	-
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.182	B Brg Width = 3.5	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.023	D Brg Width = 1.5 C Brg Width = 1.5	Min Req = - Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearing B is a rigid surface.	•
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have for	
	GCpi: 0.18	Plate Type(s):			
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

#### Lumber

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

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

#### Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 0-11-5.



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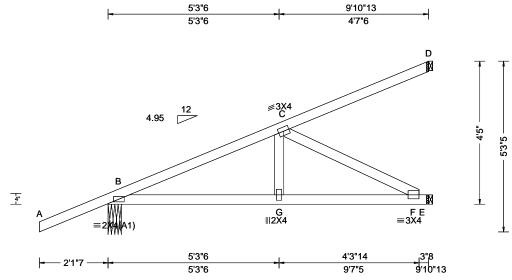
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SEQN: 314425 / HIP\_ Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T20 / FROM: CDM DrwNo: 127.20.1156.17948 Qty: 5 Williams Floor Plan Truss Label: J05HJ KD / DF 05/06/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.020 G 999 240	∣∟
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.039 G 999 180	ΙE
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 F	E
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.009 F	E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	٧
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.582	E
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.644	E
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.313	
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		[
	GCpi: 0.18	Plate Type(s):		N
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	7 "
Lumber		•	<u> </u>	

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 372 /-Е 340 /-/-/10 /-79 /19 Wind reactions based on MWFRS Brg Width = 4.9 Min Req = 1.5Brg Width = 1.5 Min Req = -Brg Width = 1.5 Min Rea = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Maximum Bot Chord Forces Per Ply (lbs)

Maximum Web Forces Per Ply (lbs)

7 - 649

G-F

Chords Tens. Comp.

574

-6

#### B - C 35 - 624

Chords Tens.Comp.

583

Tens.Comp.

B - G

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

### **Special Loads**

(Lumber	Dur.Fac.=1.	25 / Plate [	Our.Fac.=1.2	5)
TC: From	0 plf at	-2.12 to	62 plf at	0.00
TC: From	2 plf at	0.00 to	2 plf at	9.90
BC: From	0 plf at	-2.12 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.90
TC: -44 lb	Conc. Load	at 1.48	-	
TC: 126 lb	Conc. Load	at 4.31		
TC: 259 lb	Conc. Load	at 7.13		
BC: 9 lb	Conc. Load	at 1.48		
BC: 99 lb	Conc. Load	at 4.31		
BC: 180 lb	Conc. Load	at 7.13		

#### Wind

Wind loads and reactions based on MWFRS.

#### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 4-5-0.



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

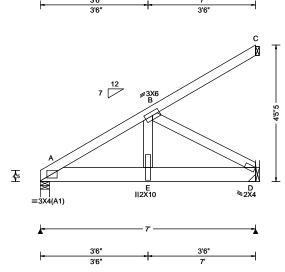
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 314426 / **EJAC** Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T39 / FROM: CDM DrwNo: 127.20.1156.17715 Qty: 1 Williams Floor Plan Truss Label: J06 KD / DF 05/06/2020



Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
Pf: NA Ce: NA	VERT(LL): 0.012 E 999 240
Lu: NA Cs: NA	VERT(CL): 0.023 E 999 180
Snow Duration: NA	HORZ(LL): -0.004 C
	HORZ(TL): 0.009 C
Code / Misc Criteria	Creep Factor: 2.0
Bldg Code: FBC 2017 RES	Max TC CSI: 0.225
TPI Std: 2014	Max BC CSI: 0.224
Rep Fac: Varies by Ld Case	Max Web CSI: 0.374
FT/RT:20(0)/10(0)	
Plate Type(s):	
WAVE	VIEW Ver: 18.02.01B.0321.08
	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s):

	▲ M	laximu	ım Rea	ctions (II	bs)			
		G	ravity	•	No	on-Gra	vity	
,	Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL	
)	Δ	1118	/-	/-	/39	/-	/-	
		827		/ /-		, /-	•	
		88		, /-	/-			
	Wind reactions based on MWFRS							
	Α	Brg V	/idth =	3.5	Min Re	q = 1.	5	
	D	Brg W	/idth =	-	Min Re	q = -		
	С	Brg V	/idth =	1.5	Min Re	q = -		
	Bearing A is a rigid surface.							
	Members not listed have forces less than 375#							
	Max	cimum	Top C	hord For	rces Per	Ply (lk	os)	
			ens.Co			- ( -	•	

A - B 0 - 1238

## Lumber

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

### **Special Loads**

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 63 plf at 0.00 to BC: From 10 plf at 0.00 to BC: 512 lb Conc. Load at 1.06 0.00 to 0.00 to 63 plf at 10 plf at 7 00 BC: 504 lb Conc. Load at 3.06, 5.06

## Hangers / Ties

(J) Hanger Support Required, by others

Wind loads and reactions based on MWFRS.

## **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 4-5-5.



Tens. Comp. A - E 1046 E-D 1011 0

Maximum Web Forces Per Ply (lbs)

Tens.Comp. Tens. Comp. Webs Webs E - B 983 B-D 0 - 1192



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

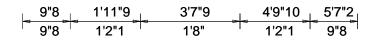
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

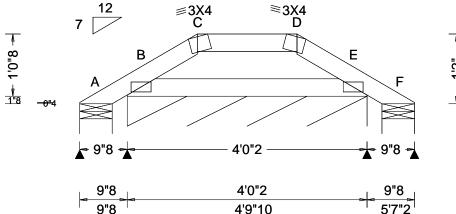
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- 1		0.0	•	10 10	012	
ĺ	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF	
-	TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravit	
-	TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 999 240	Loc R+ /R- /Rh /Rw /U	/ RL
-	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 D 999 180	A 16 /- /- /13 /6	/18
-	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000	B* 98 /- /- /49 /-	/-
-	Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001	F 16 /- /- /6 /0	/-
-	NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS	
-	Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.034	A Brg Width = 6.5 Min Req = 1.5	
	Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.099	B Brg Width = 48.1 Min Req = -	
	Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	F Brg Width = 6.5 Min Req = 1.5	
		Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Bearings A, B, & F are a rigid surface.	7F.JJ
-		GCpi: 0.18	Plate Type(s):		Members not listed have forces less than 37	T 0#
		Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

#### Lumber

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

## **Plating Notes**

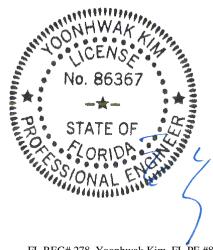
All plates are 2X4(A1) except as noted.

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

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

## **Additional Notes**

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

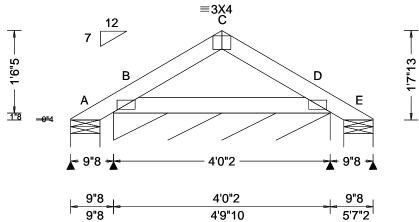
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 314428 / COMN Ply: 1 Job Number: 20-4127 Cust: R 215 JRef: 1WV12150006 T24 / FROM: CDM Qty: 5 Williams Floor Plan DrwNo: 127.20.1156.17853 Truss Label: PB02 KD / 05/06/2020





EXP: B Kzt: NA   Mean Height: 15.00 ft   TCDL: 5.0 psf   BCDL: 5.0 psf   BCD	NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	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	Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.001 999 240 VERT(CL): 0.002 999 180 HORZ(LL): -0.001 HORZ(TL): 0.001 Creep Factor: 2.0 Max TC CSI: 0.029 Max BC CSI: 0.098 Max Web CSI: 0.000	Wind read A Brg V B Brg V
--	--	---	---	---	---------------------------------

	▲ Maximum Reactions (lbs), or *=PLF							
			Gravity			on-Gra	vity	
	Loc	: R+	/ R-	/ Rh	/ Rw	/U	/ RL	
	Α	6	/-3	/-	/13	/14	/27	
	В*	103	/-	/-	/53	/-	/-	
	Е	6	/-3	/-	/-	/1	/-	
	Wii	nd read	ctions b	ased on I	<b>MWFRS</b>			
	A Brg Width = 6.5				Min Req = $1.5$			
	В	Brg V	Vidth =	48.1	Min Re	q = -		
	Е	Brg V	Vidth =	6.5	Min Re	q = 1.5	5	
	Bea	arings .	A, B, &	E are a ri	gid surfa	ce.		
	Ме	mbers	not list	ed have fo	orces less	s than	375#	
_								

#### Lumber

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

## **Plating Notes**

All plates are 2X4(A1) except as noted.

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

## Wind

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

## **Additional Notes**

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 05/06/2020

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

6750 Forum Drive Suite 305 Orlando FL, 32821

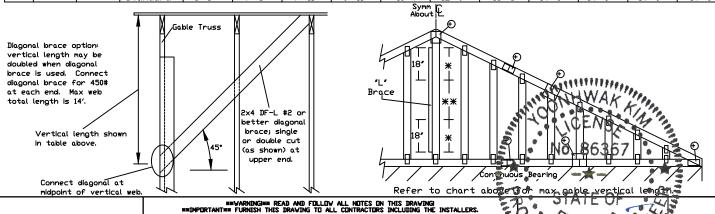
## Gable Stud Reinforcement Detail

ASCE 7-10: 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

Dr. 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D. Kzt = 1.00

					ur	100 Mbu	wirid Spee	מ, זט וופעו	n neight, r	ur dutty Er	iciosea, E	kposure D,	NZ C - 1.00	,
		2x4 Vertica	Brace	No	(1) 1×4 *L	" Brace *	(1) 2×4 *L	." Brace *	(2) 2×4 *L	" Brace **	(1) 2x6 <b>'</b> L	." Brace *	(2) 2×6 *L	Brace **
2	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
1		CDE	#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	SPF	#3	4′ 1″	6′ 7″	7′ 1″	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14' 0"
D	Ų	HF	Stud	4′ 1″	6′ 7 <b>″</b>	7′ 0 <b>″</b>	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6 <b>″</b>	13′ 4″	13' 10"	14′ 0″	14′ 0″
Č	ΙO		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 <b>″</b>	14′ 0″	14′ 0″
Ψ.	_		#1	4′ 6″	7′ 4″	7′ 8″	8′ 8″	9′ 0″	10′ 4″	10′ 9″	13′ 8 <b>″</b>	14′ 0″	14′ 0″	14′ 0″
		I 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		#3	4′ 2″	6′ 0 <b>″</b>	6′ 4 <b>″</b>	7′ 11″	8′ 6 <b>″</b>	10′ 2 <b>″</b>	10′ 7 <b>″</b>	12′ 5 <b>′</b>	13′ 4″	14′ 0″	14′ 0″
	N	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″
Q	_ ` -		Standard	4′ 0 <b>″</b>	5′ 3″	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6 <b>″</b>	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
<u>U</u> .U		CDE	#1 / #2	4′ 11 <b>″</b>	8′ 4″	8′ 8″	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+	-	SPF	#3	4′ 8″	8′ 1 <b>″</b>	8′ 8 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
2	Ų	HF	Stud	4′ 8″	8′ 1 <b>″</b>	8′ 6 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
à	lō	1 11	Standard	4′ 8″	6′ 11 <b>″</b>	7′ 5″	9′ 3″	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1~			#1	5′ 1 <b>″</b>	8′ 5 <b>″</b>	8′ 9 <b>″</b>	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
>		I SP	#2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	<u>(</u>		#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
lω	1,6	IDFL	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 8″	6′ 5 <b>″</b>	6′ 10 <b>″</b>	8′ 7″	9′ 2 <b>′</b>	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
S S		lene l	#1 / #2	5′ 5 <b>″</b>	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
O	l . <del>.</del>	SPF	#3	5′ 1 <b>″</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	U	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″
	lo	1 11	Standard	5′ 1″	8′ 0 <b>″</b>	8′ 6 <b>″</b>	10′ 8″	11′ 1″	12′ 9 <b>′</b>	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
$\perp$			#1	5′ 8 <b>″</b>	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
		SP	#2	5′ 5 <b>″</b>	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
M	ù	L	#3	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9 <b>″</b>	11′ 2″	12′ 10 <b>″</b>	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
_	15	DFL	Stud	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12′ 10 <b>″</b>	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1″	7′ 5 <b>″</b>	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



Bracing Group Species and Grades: Group A: Spruce-Pine-Fir Hem-Fir #1 / #2 Standard #2 Stud #3 Stud #3 Standard Douglas Fir-Larch Southern Pine\*\*\* #3 #3 Stud Stud Standard Standard Group B: Hem-Fir #1 & Btr D<u>ouglas Fir-L</u>arch Southern Pine\*\*\* #1 #1 #2 #2

1x4 Braces shall be SRB (Stress-Rated Board) \*\*\*For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

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

Provide uplift connections for 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. in 18" end zones and 6" o.c. between zones.

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

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

24.0"

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



13723 Riverport Drive Suite 200 Maryland Heights, MO 63043 Trusses require extreme care in fabricating, handling, shipping, installing and bright. Refer to and foliow 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 in the shall have a properly attached representation of responsibility of the 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 164-2 for standard plate positions.

Alpine, a division of ITV Bullding 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 to bracing of trusses.

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MAK, TOT, LD, 60 PSF MAX. SPACING

ASCE7-10-GAB14015 IREF DATE 10/01/14 DRWG A14015ENC101014

# 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.

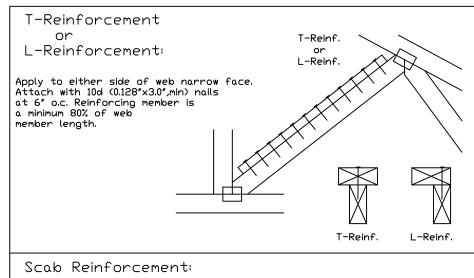
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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.

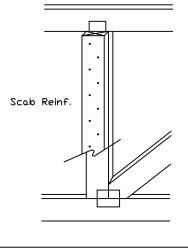
Web Member	Specified CLR	Alternative Reir	
Size	Restraint	T- or L- Reinf.	
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4(*)
2×8	1 row	2×6	1-2×8
2×8	2 rows	2×6	2-2×6( <b>*</b> )

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0", min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.





PSF REF PSF RC LL PSF TDT. LD. PSF

D√R. FAC.

SPACING

DATE 01/02/19 DRWG BRCLBSUB0119

CLR Subst.

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

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## 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 vertical Length typ. Example:

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

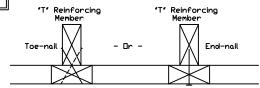
A18015ENC100118, A12015ENC100118, A12015ENC100118, A12015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A12003ENC100118, A12003ENC100118, A120030ENC100118, A120030ENC100118,

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

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

See appropriate Alpine gable detail for maximum unneinforced 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 aable 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.	"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  $1.30 \times 8' \ 7'' = 11' \ 2''$ 

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

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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.lpiscapeo

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

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY MAX. SPACING 24.0"

13723 Riverport Drive Suite 200 Maryland Heights, MO 63043

onbwak Kim EL PE #86367

AN ITW COMPANY

Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing

Member

Gable

Truss

# Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, 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 7-10, 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.

-Top Chord Scab (Typical Each End)

13723 Riverport Drive

Maryland Heights, MO 63043

# Detail A: Purlin Spacing = 24" o.c. or less Up to 12 2' Purlin Spacing = 24" o.c. max

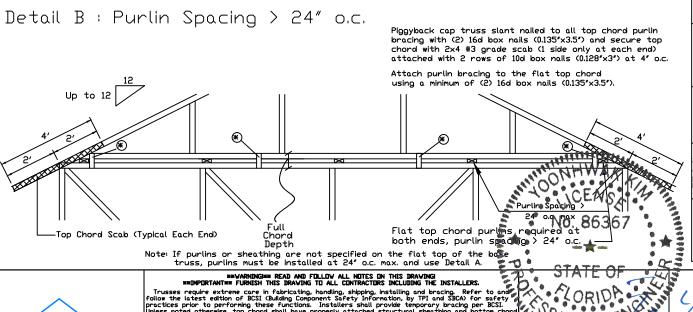
Flat top chord purlins required at both

ends and at 24" max o.c. spacing in between

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) 3XB Trulox plate attached with (8) 0.120'x1.375' nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120'x1.375' nails. Note: Nailing thru holes of wave plate is acceptable.



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

#### Trulox

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120'x1.375' nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

#### APA Rated Gusset

(0.13\*x2") audset (each face). Attach @ 8' o.c. with (8) 6d common (0.113\*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 Vertical Scabs

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nalls (0.128'x3') per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

## 28PB Wave Piggyback Plate

24.0\*

One 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' nalls per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

##WARNINGI## READ AND FOLLOW ALL NOTES ON THIS DRAWING
##IMPORTANT## FURNISH THIS DRAWING TO ALL CONTRACTORS INSCLUDING 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 brachage pre BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and botton chord shall have braching 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.

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Alpine, a division of ITV Bullaing 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 is 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 Bullding Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:

ALPINE www.alpineitw.com. TPI: www.tpinetorg. SBCA www.sbc/ndutry.org. ICC www.ccsafe.org

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DATE 10/01/14

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