



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:	Ola - c Florid
Customer: W. B. Howland Company, Inc.	Job Number: 21-6376	OL LIGHT
Job Description: Steven Winsberg - Welch Addtn		A STATE OF THE PARTY OF THE PAR
Address: LAKE CITY, FL		

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.01A
	JRef #: 1Xac2150003
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 40.00
Building Type: Closed	

This package contains general notes pages, 17 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	312.21.0828.23397	A01
3	312.21.0825.42736	A03
5	312.21.0825.42361	A05
7	312.21.0825.42798	HJ01
9	312.21.0825.42642	J02
11	312.21.0825.42689	J04
13	312.21.0825.42735	V02
15	312.21.0825.42672	V04
17	312.21.0825.42611	V06
19	GBLLETIN0118	_
21	VALTN160118	

Item	Drawing Number	Truss
2	312.21.0825.42454	A02
4	312.21.0825.42408	A04
6	312.21.0828.30610	A06
8	312.21.0825.42409	J01
10	312.21.0825.42392	J03
12	312.21.0825.42750	V01
14	312.21.0825.42438	V03
16	312.21.0825.42469	V05
18	A14015ENC160118	_
20	VAL180160118	

## **General Notes**

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

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

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

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

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

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

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

### Permanent Lateral Restraint and Bracing:

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

## **Connector Plate Information:**

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

### Fire Retardant Treated Lumber:

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

## **General Notes** (continued)

### **Key to Terms:**

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

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

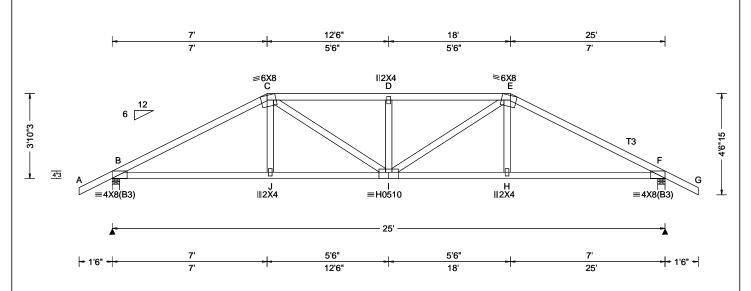
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

### References:

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

SEQN: 406090 HIPS Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0828.23397 Truss Label: A01 / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.153 D 999 240	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.313 D 947 180	lε
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.049 F	F
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.100 F	١V
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	E
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.761	F
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.430	E
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0.350	N
' '	Loc. from endwall: NA	FT/RT:20(0)/10(0)		2
	GCpi: 0.18	Plate Type(s):		4
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.01.01A.0521.20	E
Lumber				- (

▲ Max	cimu	m Reac	tions (	lbs)		
	Gı	ravity		N	on-Grav	vity
Loc I	₹+	/ R-	/Rh	/ Rw	/ U	/ RL
B 2	129	/-	/-	/-	/378	/-
F 2	129	/-	/-	/-	/378	/-
Wind	reac	tions bas	sed on	MWFRS		
В В	rg W	id = 4.0	Min	Req = 1.8	3	
F B	rg W	id = 4.0	Min	Req = 1.8	3	
Bearir	ngs E	8 & Fare	a rigid	surface.		
Memb	ers i	not listed	have f	orces les	s than 3	375#
Maxir	num	Top Ch	ord Fo	rces Per	Ply (lb	s)
Chord	ls T	ens.Com	ıp.	Chords	Tens.	Comp.
B-C		663 - 38	379	D-E	699	- 4182
C-D		699 - 41	82	E-F	662	- 3876

Maximum Bot Chord Forces Per Ply (lbs)

Chords

Tens. Comp.

- 559

3408

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

### Loading

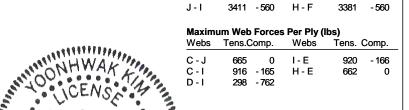
#1 hip supports 7-0-0 jacks with no webs.

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

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

#### **Additional Notes**

The overall height of this truss excluding overhang is



Chords Tens.Comp.

3384 - 561

FL REG# 278, Yoonhwak Kim, FL PE #86367 11/08/2021

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

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

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SEQN: 637999 / HIPS Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T2 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42454 Truss Label: A02 KD / YK 11/08/2021 4'9"4 9 16' 20'2"12 25 4'9"4 4'2"12 7' 4'2"12 4'9"4 **∌**3X4 **≋3**¥4 4'10"3 5'6"15 4"3 K ≡5X5 J ≡3X8 L ∥2X4 || ||2X4 =2.5X6(A1) =2.5X6(A1) 25' 4'9"4 4'2"12 7 4'2"12 4'9"4 <del>|-</del> 1'6" <del>-</del>| 4'9"4 16' 20'2"12 25'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes	PP Deflection in loc L/defl L/# VERT(LL): 0.066 K 999 240 VERT(CL): 0.134 K 999 180 HORZ(LL): 0.029 G HORZ(TL): 0.059 G Creep Factor: 2.0 Max TC CSI: 0.659 Max BC CSI: 0.508 Max Web CSI: 0.139
	Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 21.01.01A.0521.20

▲ M	▲ Maximum Reactions (lbs)					
	G	ravity	-	No	n-Grav	/ity
Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
В	1130	/-	/-	/675	/206	/154
G	1130	/-	/-	/675	/206	/-
Win	d reac	tions bas	sed on N	<b>IWFRS</b>		
В	Brg W	/id = 4.0	Min F	Req = 1.5		
G	Brg W	/id = 4.0	Min F	Req = 1.5		
Bea	rings E	3 & G are	e a rigid	surface.		
Men	nbers	not listed	l have fo	orces less	than 3	375#
Max	imum	Top Ch	ord Fo	rces Per	Ply (lb:	s)
Cho	rds T	ens.Con	np. (	Chords	Tens.	Ćomp.
B - 0	2	714 - 18	302 F	E - F	706	- 1497
C - I	Ď	707 - 15		F - G	714	- 1802

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

### **Purlins**

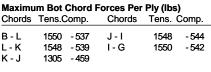
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

The overall height of this truss excluding overhang is



688 - 1309

D-E



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SEQN: 638005 / HIPS Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 Т3 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42736 Truss Label: A03 KD / YK 11/08/2021 5'9"4 11' 19'2"12 25' 5'9"4 5'2"12 5'2"12 5'9"4 =4X6 D ≡4X4 E **∌**3X4 3Xٍ4 5'10"3 4"3 K ≡5X5 L ∥2X4 | ||2X4 ≡3X8 =2.5X6(A1) =2.5X6(A1) 25' 5'9"4 5'2"12 5'2"12 5'9"4 - 1'6" <del>- |</del> <del>-</del> 1'6" <del>-</del> 5'9"4 19'2"12 ▲ Maximum Reactions (lbs)

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.066 K 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.133 K 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.029 G	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.059 G	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.296	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.423	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.341	
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	
Lumber			•	-

#### Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 1130 /-/679 /204 /180 1130 /679 /204 /-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 1.5Brg Wid = 4.0 Min Req = 1.5 Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 564 - 1790 516 - 1323 C - D 518 - 1330 564 - 1790 D-E 511 - 1122

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

### **Purlins**

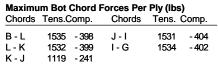
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind loads based on MWFRS with additional C&C

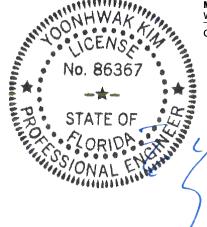
Wind loading based on both gable and hip roof types.

# Additional Notes

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



#### Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - K J-F 183 - 476 184 - 479



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SEQN: 638001 / COMN Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T4 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42408 Truss Label: A04 KD / YK 11/08/2021 6'6"4 12'6" 18'5"12 25' 6'6"4 5'11"12 5'11"12 6'6"4 ≡4X4 D **№2X4** 4"3 H ≡5X5 =5X5 =2.5X6(A1) =2.5X6(A1) 25' 8'6"3 7'11"11 8'6"3 - 1'6" -1'6" -8'6"3 16'5"13 25 ▲ Maximum Reactions (lbs) Gravity Non-Gravity /R /Rh /RL

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.064 H 999 240	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.128 H 999 180	E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.025 F	F
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.051 F	١
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	E
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.399	Į.
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.701	E
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.210	N
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Ι"
	GCpi: 0.18	Plate Type(s):		<b>↓</b> `
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	E
Lumber		•		٠, ر

#### Loc R+ /Rw /U 1130 /-/678 /202 /199 1130 /-/678 /202 /-Wind reactions based on MWFRS Brg Wid = 4.0Min Reg = 1.5Brg Wid = 4.0 Min Reg = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 459 - 1740 467 - 1538 467 - 1538 E-F 459 - 1740

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

### Wind

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

noras	rens.Comp.	Choras	rens. Comp.	
	1487 - 296	H-F	1487 - 301	_
- H	1002 - 109			

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
I-D	552 - 132	D-H	552 - 132	



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SEQN: 637996 / COMN Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T5 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42361 Truss Label: A05 KD / YK 11/08/2021 6'6"4 18'5"12 25' 6'6"4 5'11"12 5'11"12 6'6"4 ≡4X4 C 4"3 G ≡5X5 F ≡5X5 =2.5X6(A1) =2.5X6(A1) 25' 8'6"3 8'6"3 8'6"3 16'5"13

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.061 G 999 240 VERT(CL): 0.126 G 999 180 HORZ(LL): 0.025 E HORZ(TL): 0.052 E Creep Factor: 2.0 Max TC CSI: 0.437 Max BC CSI: 0.713 Max Web CSI: 0.217  VIEW Ver: 21.01.01A.0521.20	A E B M C A
Lumber		111111		J B

▲ Max	timu	m Re	actions	(lbs)			
	G	ravity		1	Non-Gra	vity	
Loc F	₹+	/ R-	/ Rh	/ Rw	/ / U	/ RL	
A 10	030	/-	/-	/594	/175	/161	
E 10	030	/-	/-	/594	/175	/-	
Wind	reac	tions b	oased or	n MWFRS	3		
А В	rg W	id = 4	.0 Mir	n Req = 1	.5		
Е В	rg W	id = 4	.0 Mir	n Req = 1	.5		
Bearin	ngs A	4 & E a	are a rig	id surface	<b>)</b> .		
Memb	ers	not list	ed have	forces le	ss than :	375#	
Maxin	num	Top (	Chord F	orces Pe	r Ply (lb	s)	
Chord	s T	ens.C	omp.	Chords	Tens.	Comp.	
A - B		482 -	1770	C - D	490	- 1567	
B-C			1567	Ď-Ē	481	- 1770	

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

### Wind

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

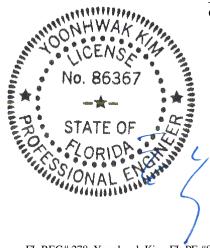
The overall height of this truss excluding overhang is

# Maximum Bot Chord Forces Per Ply (lbs)

noras	rens.c	omp.	Choras	rens. (	omp.	
4 - G	1518	- 366	F-E	1518	- 352	
3 - F	1017	- 166				

## Maximum Web Forces Per Ply (lbs)

Vebs	Tens.Comp.	Webs	Tens. Comp.
3 - C	570 - 140	C - F	570 - 140



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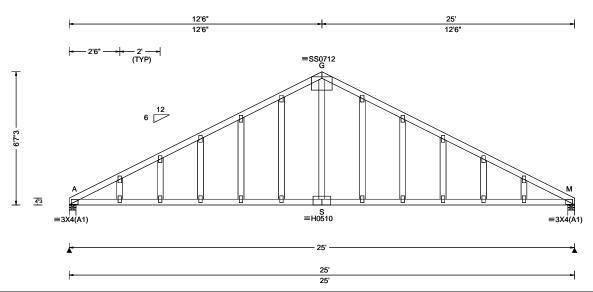
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SEQN: 638003 GABL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0828.30610 Truss Label: A06 / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.446 V 665 240 VERT(CL): 0.918 V 323 180 HORZ(LL): 0.224 D HORZ(TL): 0.462 D Creep Factor: 2.0 Max TC CSI: 0.477 Max BC CSI: 0.784 Max Web CSI: 0.273  VIEW Ver: 21.01.01A.0521.20	
Lumber	•	•	-	_

▲ M	▲ Maximum Reactions (lbs)						
	G	ravity		N	on-Grav	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
Α	1030	/-	/-	/594	/175	/161	
М	1030	/-	/-	/594	/175	/-	
Win	d read	tions ba	sed or	MWFRS			
Α	Brg V	Vid = 4.0	) Mir	Req = 1.5	5		
М	Brg V	Vid = 4.0	) Mir	Req = 1.	5		
Bea	rings /	4 & M a	re a rig	id surface.			
Mer	nbers	not liste	d have	forces les	s than 3	375#	
Maximum Top Chord Forces Per Ply (lbs)							
Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.	
A -	G	488 - 1	468	G - M	488	- 1468	

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

### **Plating Notes**

All plates are 2X4 except as noted.

#### Loading

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

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

The overall height of this truss excluding overhang is

#### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 1233 - 237 1233 - 236

#### Maximum Gable Forces Per Ply (lbs) Gables Tens.Comp.

G-S 716 - 239



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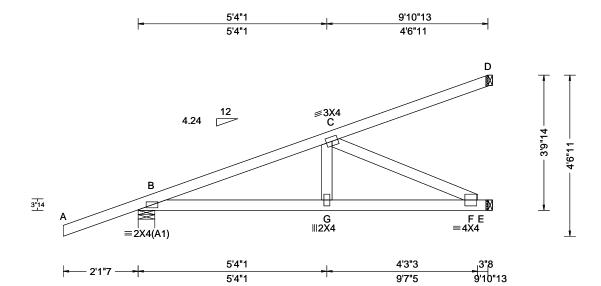
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SEQN: 638024 / HIP\_ Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T12 FROM: CDM Qty: 2 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42798 Truss Label: HJ01 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.022 G 999 240 VERT(CL): 0.044 G 999 180 HORZ(LL): 0.005 F HORZ(TL): 0.011 F Creep Factor: 2.0 Max TC CSI: 0.594 Max BC CSI: 0.533 Max Web CSI: 0.333  VIEW Ver: 21.01.01A.0521.20	
Lumber				B - C. 122 - 739

#### В 461 /-Е 374 /-/-247 Wind reactions based on MWFRS Brg Wid = 5.7 Min Req = 1.5 Brg Wid = 1.5 Brg Wid = 1.5 Bearing B is a rigid surface.

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

Non-Gravity

/11 /-/-

/94

/RL

/-

/Rw / U

B - C 122 - 739

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

Top chord: 2x4 SP #2;

# Loading

Hipjack supports 7-0-0 setback jacks with no webs.

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

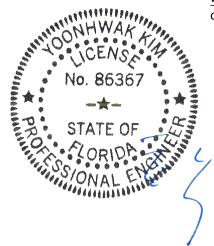
The overall height of this truss excluding overhang is 3-9-14.

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

Chords Tens. Comp. B - G 675 - 108 G-F 668 - 112

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

Webs Tens.Comp. C-F 123 - 737



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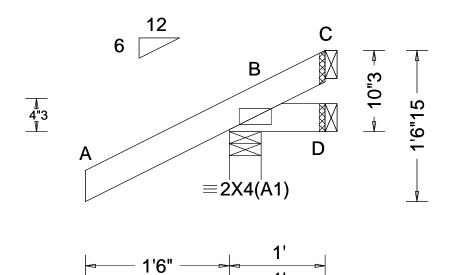
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SEQN: 637992 / JACK Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T10 FROM: CDM Qty: 4 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42409 Truss Label: J01 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 254 /- /- /202 /69 /38
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B	D 4 /-18 /- /16 /16 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B	C - /-53 /- /34 /51 /-
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.250	B Brg Wid = 4.0 Min Req = 1.5 D Bra Wid = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.035	D Brg Wid = 1.5 C Bra Wid = 1.5
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 forces less than 375#
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	

#### Lumber

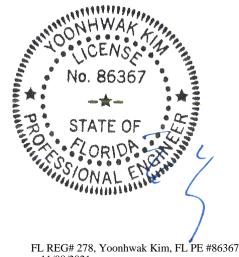
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

The overall height of this truss excluding overhang is 0-10-3.



11/08/2021

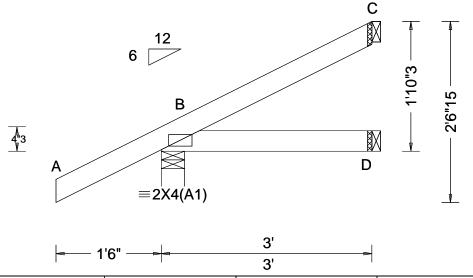
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SEQN: 637997 / JACK Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 FROM: CDM Qty: 4 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42642 Truss Label: J02 KD / YK 11/08/2021



Loading (	Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ib	s)
TCLL:	20.00	Wind Std: ASCE 7-16	Pa: 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 262 /- /-	/190 /42 /73
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 B	D 49 /- /-	/26 /- /-
Des Ld:	40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.001 B	C 62 /- /-	/36 /34 /-
NCBCLL:	10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on M	
Soffit:	0.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.164	B Brg Wid = 4.0 Min R D Bra Wid = 1.5	eq = 1.5
Load Dura		MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.064	C Bra Wid = 1.5	
Spacing: 2	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: not in 4.50 ft	FT/RT:20(0)/10(0)		Members not listed have fo	
		GCpi: 0.18	Plate Type(s):			
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20		
1						

#### Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

The overall height of this truss excluding overhang is



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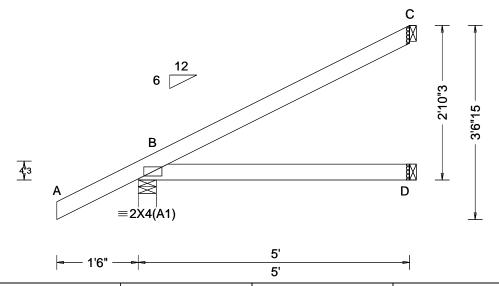
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SEQN: 637993 / JACK Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 FROM: CDM Qty: 4 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42392 Truss Label: J03 KD / YK 11/08/2021



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 Wind Std: ASCE 7-16	Pa: 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 331 /- /- /231 /43 /109
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 B	D 89 /- /- /48 /- /-
Des Ld: 40.00 EXP: C Kzt: NA		HORZ(TL): 0.008 B	C 127 /- /- /79 /65 /-
NCBCLL: 10.00 Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00 BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.316	B Brg Wid = 4.0 Min Req = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.233	D Brg Wid = 1.5 C Brg Wid = 1.5
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: not in 4.50 ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
GCpi: 0.18	Plate Type(s):		The state of the s
Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	

#### Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

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



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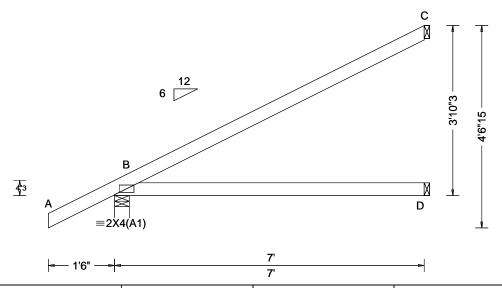
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SEQN: 637994 / **EJAC** Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T11 FROM: CDM DrwNo: 312.21.0825.42689 Qty: 7 Steven Winsberg - Welch Addtn Truss Label: J04 KD / YK 11/08/2021



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 Wind Std: ASCE 7-16	Pa: 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 /- /- /278 /47 /144
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.014 B	D 129 /- /- /73 /- /-
Des Ld: 40.00 EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.028 B	C 187 /- /- /118 /93 /-
NCBCLL: 10.00 TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00 BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.713	B Brg Wid = 4.0 Min Req = 1.5 D Brg Wid = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.512	C Brg Wid = 1.5
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: not in 4.50 ft			Members not listed have forces less than 375#
GCpi: 0.18	Plate Type(s):		
Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	

#### Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

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



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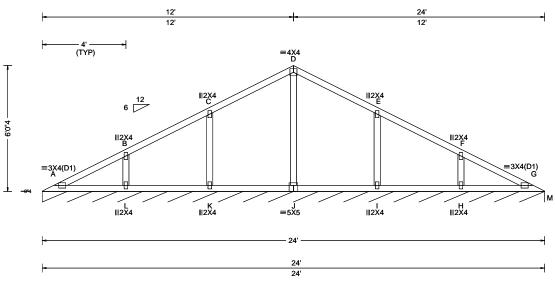
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SEQN: 638011 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T1 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42750 Truss Label: V01 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.006 A 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.013 A 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 A
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.004 A
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.212
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.145
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.153
	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: 21.01.01A.0521.20
Lumber			

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL M\* 82 /-/-Wind reactions based on MWFRS M Brg Wid = 287 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

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

Wind loading based on both gable and hip roof types.

## **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for

The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 11/08/2021

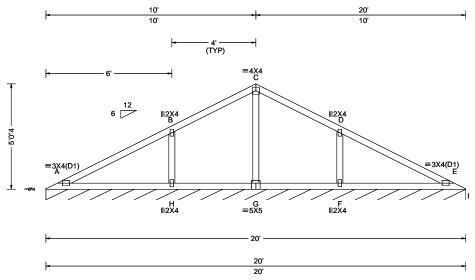
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 638014 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T13 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42735 Truss Label: V02 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.022 A 999 240 VERT(CL): 0.045 A 999 180 HORZ(LL): 0.008 A HORZ(TL): 0.016 A Creep Factor: 2.0 Max TC CSI: 0.475 Max BC CSI: 0.277 Max Web CSI: 0.167  VIEW Ver: 21.01.01A.0521.20	Gravity Loc R+ /R- /Rh /Rw /U /RL    * 82 /- /- /42 /12 /6  Wind reactions based on MWFRS   Brg Wid = 239 Min Req = - Bearing A is a rigid surface.  Members not listed have forces less than 375#  Maximum Web Forces Per Ply (lbs)  Webs Tens.Comp.  C - G 70 - 375

#### Lumber

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

### Wind

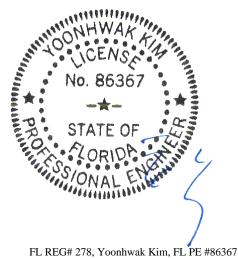
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

### **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is



11/08/2021

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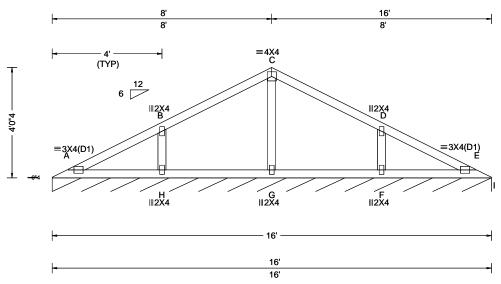
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 638016 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T14 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42438 Truss Label: V03 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.005 A 999 240			
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.011 A 999 180			
DCDL.   10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 E			
Dec 1 4 · 40 00	EXP: C Kzt: NA		HORZ(TL): 0.004 E			
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.293			
l	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.141			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.076			
	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: 21.01.01A.0521.20			
Lumbor						

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL 82 /-/-/42 /12 Wind reactions based on MWFRS Brg Wid = 191 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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for

The overall height of this truss excluding overhang is



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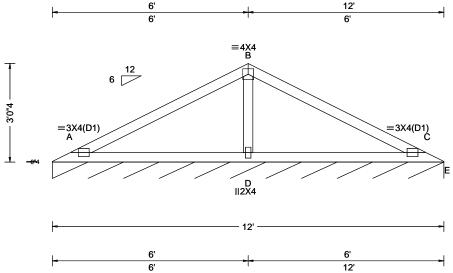
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6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 638018 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T15 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42672 Truss Label: V04 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.025 C 999 240	<u>L</u>
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.052 C 999 180	E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.010 C	١
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.021 C	E
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	E
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.495	1
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.417	7
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.151	-
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		1
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	1
Lumber				(

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL E\* 82 /-/-Wind reactions based on MWFRS Brg Wid = 143 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 509 - 260 A - B B-C 509 - 272

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

A - D 314 - 397 D-C 314 - 397

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

B - D 447 - 688

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

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

Wind loading based on both gable and hip roof types.

### **Additional Notes**

Top chord: 2x4 SP #2;

See DWGS VALTN160118 and VAL180160118 for

The overall height of this truss excluding overhang is



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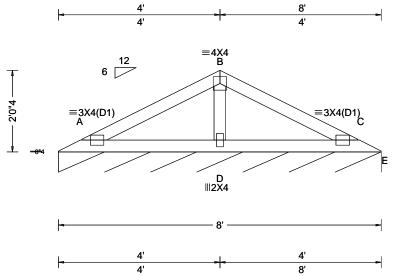
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SEQN: 638020 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T16 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42469 Truss Label: V05 KD / YK 11/08/2021



Loading Criteria (psf)	Wind Criteria   Snow Criteria (Pg,Pf in F		Defl/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.007 A 999 240			
DCLL. 0.00		Lu: NA Cs: NA	VERT(CL): 0.015 A 999 180			
	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C			
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft	Building Code:	HORZ(TL): 0.006 C Creep Factor: 2.0			
0 - 40:4	TCDL: 5.0 psf BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.187			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.169			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.109			
	Loc. from endwall: Any	FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
Wind Duration: 1.60		WAVE	VIEW Ver: 21.01.01A.0521.20			

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL E\* 82 /-/-/40 /10 Wind reactions based on MWFRS Brg Wid = 96.0 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

### Wind

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

Wind loading based on both gable and hip roof types.

## **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for

The overall height of this truss excluding overhang is



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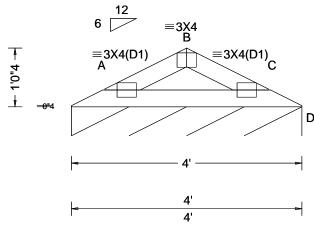
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SEQN: 638022 / VAL Ply: 1 Job Number: 21-6376 Cust: R 215 JRef: 1Xac2150003 T17 FROM: CDM Qty: 1 Steven Winsberg - Welch Addtn DrwNo: 312.21.0825.42611 Truss Label: V06 KD / YK 11/08/2021





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.004 A 999 240			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.008 A 999 180			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 A			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 A			
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.076			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.102			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000			
Loc. from endwall: Any		FT/RT:20(0)/10(0)				
	GCpi: 0.18	Plate Type(s):				
Wind Duration: 1.60		WAVE	VIEW Ver: 21.01.01A.0521.20			
		1				

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL D\* 82 /-/-/4 Wind reactions based on MWFRS D Brg Wid = 48.0 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

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

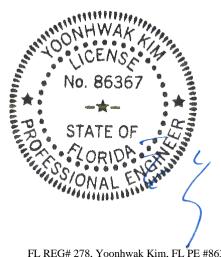
Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

## **Additional Notes**

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is



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# Gable Stud Reinforcement Detail

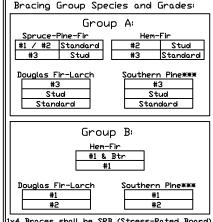
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

		2×4	Brace	No	(1) 1×4 *L	" Brace *	(1) 2×4 *L		(2) 2×4 *L		(1) 2×6 *L	* Brace *	(2) 2×6 *L	Brace **
_	Spacing	Vertica  Species		_	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
†			#1 / #2	4′ 3″	7′ 3″	7' 7"	8′ 7 <b>″</b>	8′ 11″	10′ 3″	10′ 8 <b>″</b>	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	1 -	SPF	#3	4′ 1″	6′ 7 <b>″</b>	7′ 1″	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14' 0"
D	Ū	HF	Stud	4′ 1″	6′ 7 <b>″</b>	7′ 0 <b>″</b>	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0″
>	0	1 11	Standard	4′ 1″	5′ 8 <b>″</b>	6′ 0 <b>″</b>	7′ 7″	8′ 1 <b>″</b>	10′ 1″	10′ 6″	11′ 10″	12′ 8 <b>″</b>	14′ 0″	14′ 0″
ا به ا			#1	4′ 6 <b>″</b>	7′ 4″	7′ 8 <b>″</b>	8′ 8 <b>″</b>	9′ 0″	10′ 4″	10′ 9″	13′ 8″	14′ 0″	14′ 0″	14′ 0″
	*	SP	#2	4′ 3″	7′ 3″	7′ 7″	8′ 7 <b>″</b>	8′ 11″	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	L	#3	4′ 2″	6′ 0″	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>″</b>	13′ 4″	14′ 0″	14′ 0″
ام	N	IDFL	Stud	4′ 2″	6′ 0″	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
$1  \mathrm{M}$			Standard	4′ 0″	5′ 3 <b>″</b>	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.51		. SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
+			#3	4′ 8″	8′ 1″	8′ 8 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ų	U HF	Stud	4′ 8″	8′ 1″	8′ 6 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 0	Ō		Standard	4′ 8″	6′ 11 <b>″</b>	7′ 5 <b>″</b>	9′ 3″	9′ 11 <b>″</b>	11′ 7″	12′ 1 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
~			#1	5′ 1 <b>′</b>	8′ 5″	8′ 9 <b>′</b>	9′ 11″	10′ 4″	11' 10"	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	*	SP	#2	4′ 11″	8′ 4″	8′ 8 <b>′</b>	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	9	lbe.	#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ţ	DFL	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1			Standard	4′ 8″	6′ 5″	6′ 10″	8′ 7″	9′ 2″	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
요		SPF	#1 / #2	5′ 5 <b>″</b> 5′ 1 <b>″</b>	9′ 2 <b>″</b> 9′ 0 <b>″</b>	9′ 6 <b>″</b> 9′ 4 <b>″</b>	10′ 10″	11′ 3″ 11′ 1″	11′ 8 <b>″</b> 12′ 9 <b>″</b>	13′ 5 <b>″</b> 13′ 3 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ˈď			#3	5′ 1 <b>′</b>			10′ 8″				14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ų	HF	Stud		9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	<u> </u>	Standard	5′ 1 <b>″</b> 5′ 8 <b>″</b>	8′ 0″ 9′ 3″	8′ 6 <b>″</b> 9′ 8 <b>″</b>	10′ 8″ 10′ 11″	11' 1" 11' 4"	12′ 9 <b>″</b> 13′ 0 <b>″</b>	13′ 3 <b>″</b> 13′ 6 <b>″</b>	14′ 0″ 14′ 0″	14′ 0″ 14′ 0″	14′ 0″ 14′ 0″	14′ 0″ 14′ 0″
X		SP	#1 #2	5′ 5″	9' 2"	9' 6"	10' 11"	11' 3"	12' 11"	13′ 5″	14' 0"	14' 0"	14' 0"	14' 0"
Ma	*	125	#2	5′ 3″	8′ 5″	9' 0"	10′ 10″	11' 2"	12' 10"	13′ 4″	14' 0"	14′ 0″	14' 0"	14' 0"
$ \Sigma $	$\Omega$	DFL		5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10' 9"	11' 2"	12' 10"	13′ 4″	14' 0"	14' 0"	14' 0"	14′ 0″
	$\vdash$	שו דען	Stud							13' 4"				
			Standard	5′ 1 <b>′</b>	7′ 5″	7′ 11″	9′ 11 <b>″</b>	10′ 7″	12′ 9″	13' 3"	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

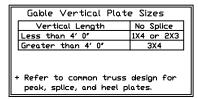
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0' outlookers with 2' 0' overhang, or 12' plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails. ¥ For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩₩For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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



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

#### Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Constituous Bearing Connect diagonal at Refer to chart above son midpoint of vertical web.

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MAX, TOT, LD, 60 PSF oonhwak Kim FL PE #86367

514 Earth City Expressway Suite 242 Earth City, MO 63045

ASCE7-16-GAB14015 DATE 01/26/2018 DRWG A14015ENC160118

MAX. SPACING 24.0"

# Gable Detail For Let-in Verticals Gable Truss Plate Sizes Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs. (+) Refer to Engineered truss design for peak, splice, web, and heel plates. \*If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web. Gable Example: Length typ.

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3.", min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

10d Common (0.148"x3".min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A14015ENC100118,

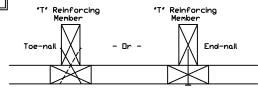
A18015ENC100118, A12015ENC100118, A12015ENC100118, A12015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A12003ENC100118, A12003ENC100118, A120030ENC100118, A120030ENC100118,

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

\$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 gable vertical length is 14' from top to bottom chord.

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

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

"T" Reinf.	"T"				
Mbr. Size	Increase				
2×4	30 %				
2x6	20 %				

#### Example:

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24°o.c. SP #3 "T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length  $1.30 \times 8' \ 7'' = 11' \ 2''$ 

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

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For more information see this Job's general notes page and these web sittles 1/08/2021. ALPINE: www.alpineitw.com; TPI: www.tpinstorg; SBCA: www.sbcaccomponents.com; ICC: www.cescfebr. 78 Yoonhwak Kim, FL PE #86367

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

MAX. TOT. LD. 60 PSF

24.0"

DUR. FAC. ANY

MAX. SPACING



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

# Valley Detail - ASCE 7-16: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better. Bot Chord 2x4 SP #2N or SPF #1/#2 or better. Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

\*\* Attach each valley to every supporting truss with 535# connection or with (1) Simpson H2.5A or equivalent connector for

ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00

ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128"  $\times$  3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

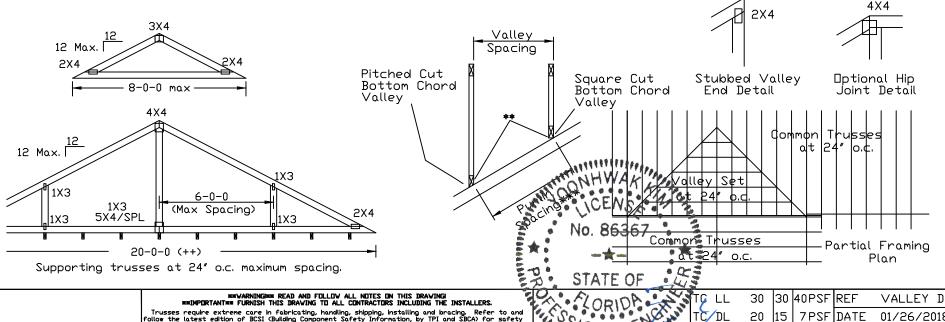
Top chord of truss beneath valley set must be braced with properly attached, rated sheathing applied prior to valley truss installation.

□r

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

By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

- \*\*\* Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
- ++ Larger spans may be built as long as the vertical height does not exceed 14'-0''.





514 Earth City Expressway Suite 242 Earth City, MO 63045 ==!#TRAINIANIES FURNISH HIS BRAYING TU ALL CONTRACTORS INCLUDING THE INSTALLERS.

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

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TC LL 30 30 40PSF REF VALLEY DETAIL TC DL 20 15 7PSF DATE 01/26/2018
BC DL 10 10 10 PSF DRWG VAL180160118
BC LL 0 0 0 PSF TDT. LD. 60 55 57PSF

DURFAC.1.25/1.33 1.15 1.15
SPACING 24.0"

# Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better. Bot Chord 2x4 SP #2N or SPF #1/#2 or better. Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

\*\* Attach each valley to every supporting truss with: (2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C. Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location: 170 mph for SP (G = 0.55, min.), 155 mph for DF-L (G = 0.50, min.), or 120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

All plates shown are Alpine Wave Plates.

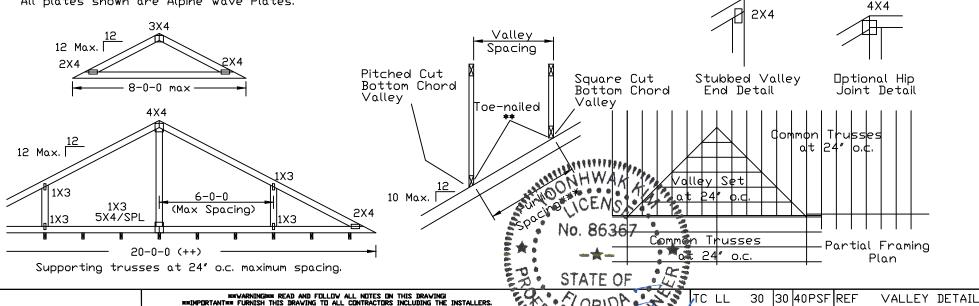
Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box  $(0.128" \times 3.0")$  nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.

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

By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

- \*\*\* Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
- ++ Larger spans may be built as long as the vertical height does not exceed 14'-0".





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MAL ON ALTON

TC DL 20 15 | 7PSF|DATE BC DL 10 0 PSF BC II 0 | TDT. LD. 60 155157PSF

01/26/2018

VALTN160118

DUR.FAC.1.25/1.33 1.15 1.15

SPACING 24.0"