



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

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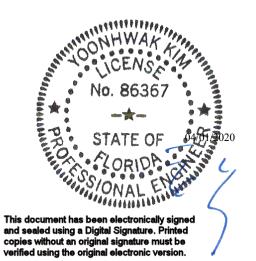
Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-3965B
Job Description: /Crosby /SPARKS CONST.	
Address: FL	

Job Engineering Criteria:			
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01B		
	JRef #: 1WU22150005		
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, 48 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	092.20.1616.06076	A01
3	092.20.1607.33287	A03
5	092.20.1616.06183	B01
7	092.20.1616.06823	B03
9	092.20.1616.06246	B1A
11	092.20.1616.06621	C01
13	092.20.1616.06107	C03
15	092.20.1616.06465	C05
17	092.20.1616.06604	D02
19	092.20.1616.06261	G02
21	092.20.1616.06136	G04
23	092.20.1616.06542	H01
25	092.20.1616.06012	J01
27	092.20.1616.05919	J1B
29	092.20.1616.06418	J02
31	092.20.1616.06513	J04
33	092.20.1616.06807	J06
35	092.20.1616.06590	J07
37	092.20.1616.06729	K01
39	092.20.1616.06199	L01
41	092.20.1616.06885	M03
43	092.20.1607.37320	P01
45	092.20.1616.06511	P03
47	092.20.1616.05902	P05
49	A14015ENC101014	
51	BRCLBSUB0119	

Item	Drawing Number	Truss
2	092.20.1607.30937	A02
4	092.20.1607.35180	A04
6	092.20.1616.06839	B02
8	092.20.1616.06027	B04
10	092.20.1616.06325	B2A
12	092.20.1616.06371	C02
14	092.20.1616.05951	C04
16	092.20.1616.06932	D01
18	092.20.1616.06339	G01
20	092.20.1616.06077	G03
22	092.20.1616.05904	G05
24	092.20.1616.06075	H02
26	092.20.1616.06137	J1A
28	092.20.1616.06308	J1C
30	092.20.1616.06310	J03
32	092.20.1616.06682	J05
34	092.20.1616.06995	J6A
36	092.20.1616.06106	J08
38	092.20.1616.06419	K02
40	092.20.1616.06917	M01
42	092.20.1616.06651	M04
44	092.20.1607.54440	P02
46	092.20.1616.06448	P04
48	092.20.1616.05950	P06
50	A14030ENC101014	
52	CNNAILSP1014	





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Site Information:

Customer: W. B. Howland Company, Inc.

Job Description: /Crosby /SPARKS CONST.

Address: FL

Item	Drawing Number	Truss
53	GBLLETIN0118	

Item	Drawing Number	Truss
54	PB160101014	

### **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.

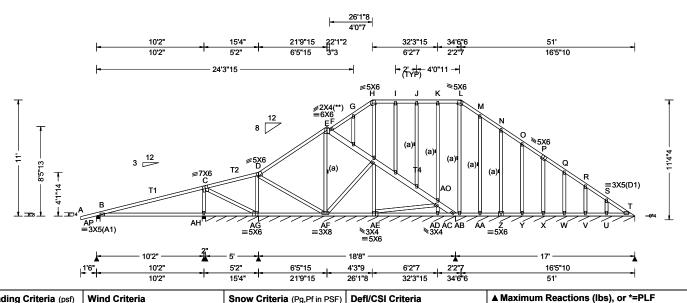
Refer to ASCE-7 for Wind and Seismic abbreviations.

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: 580532 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T1 / FROM: CDM Qty: 1 /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06076 Truss Label: A01 / YK 04/01/2020



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): 0.090 AH 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.188 AH 638 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.027 AH
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.055 AH
NCBCLL: 10.00	Mean Height: 16.05 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: 0.646
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.806
Spacing: 24.0 "	C&C Dist a: 5.10 ft	Rep Fac: Yes	Max Web CSI: 0.164
' "	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

### Lumber

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31; T4 2x6 SP 2400f-2.0E;

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

### **Bracing**

(a) Continuous lateral restraint equally spaced on member

### **Plating Notes**

All plates are 2X4 except as noted.

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

### **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.

Uplifts based on an elevation at or above 1000 ft.

## **Additional Notes**

Refer to General Notes for additional information

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

The overall height of this truss excluding overhang is 11-0-0.

Gravity			No	on-Gra	vity
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AP 529	/-	/-	/266	/77	/216
AH 591	/-	/-	/314	/48	/-
AH*96	/-	/-	/57	/4	/-
AG*69	/-	/-	/45	/-	/-
T* 85	/-	/-	/53	/-	/-
Wind read	ctions b	ased on N	/WFRS		
AP Brg V	Vidth =	4.0	Min Re	q = 1.5	5
AH Bra V	Vidth =	4.0	Min Re	a = 1	5

AH Brg Width = 60.0 Min Req = -AG Brg Width = 224 Min Reg = -Brg Width = 203 Min Reg = -

Bearings AP, AH, AH, AG, & AC are a rigid surface.

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

Webs Tens.Comp 116 - 383 AO-AD



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

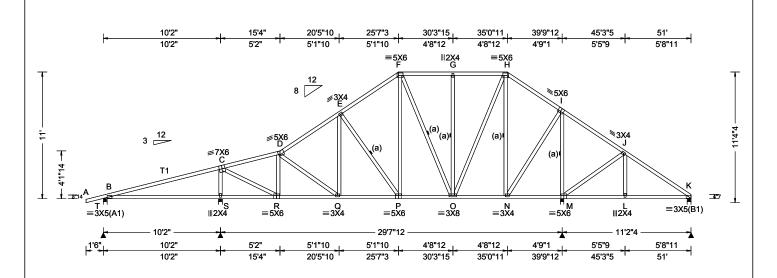
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*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.

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 586275 COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T9 FROM: CDM Qty: 1 /Crosby /SPARKS CONST. DrwNo: 092.20.1607.30937 Truss Label: A02 / YK 04/01/2020



/#		G	ravity		No	n-Grav	vity
40	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RI
80	т	407	<i>I</i> -	/-	/175	/103	/30
-	s	1747	<i>j</i> -	/-	/1042	/302	/-
-	М	1746	/-	/-	/1026	/307	/-
	ĸ	398	/-	/-	/289	/52	/-
	Wir	nd reac	tions	based on N	<b>IWFRS</b>		
	Т	Brg V	/idth =	= 4.0	Min Red	q = 1.5	,
	S	Brg V	/idth =	= 4.0	Min Red	q = 1.7	•
	М	Brg V	/idth =	= 3.5	Min Red	q = 2.1	
	Κ	Brg V	/idth =	= 4.0	Min Red	q = 1.5	,
	Bea	arings <sup>-</sup>	T, S, N	<ol> <li>&amp; K are</li> </ol>	a rigid su	rface.	
3	Me	mbers	not lis	ted have fo	orces less	than 3	375#
	Ma	ximum	Тор	Chord For	rces Per	Ply (lb:	s)

▲ Maximum Reactions (lbs)

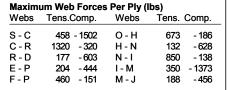
### Chords Tens.Comp. Chords Tens. Comp. C-D 321 - 1129 352 -674 G-H 293 D-E 400 - 1320 -572 H - I E-F 409 - 1032 104 J-K -422

/RL

/309

## F-G 353 - 674 Maximum Bot Chord Forces Per Ply (lbs)

### Tens. Comp. Chords Tens.Comp. Chords R - Q 1086 P - 0 95 1029 - 151 Q-P O - N 401 -49



### 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

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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information

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

The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

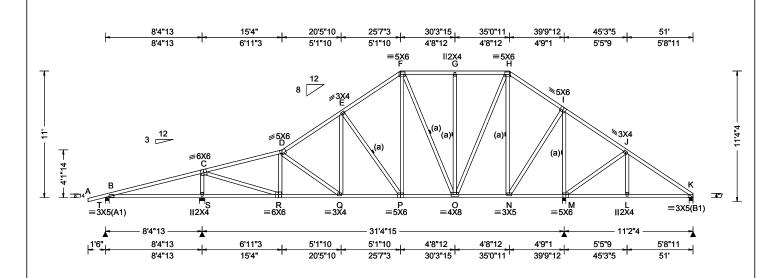
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 586277 COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T10 FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1607.33287 Qty: 1 Truss Label: A03 / YK 04/01/2020



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): 0.076 Q 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.155 Q 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.016 S
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.033 S
NCBCLL: 0.00	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: 0.991
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.568
Spacing: 24.0 "	C&C Dist a: 5.10 ft	Rep Fac: Yes	Max Web CSI: 0.678
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber			

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw / U /RL 318 /-/137 /309 1730 /-/-/1015 /303 /-М 1946 /-/1113 /341 305 /248 /36 /-/-Wind reactions based on MWFRS Brg Width = 4.0 Min Req = 1.5 Brg Width = 5.7 Min Req = 1.7Brg Width = 3.5 Min Req = 2.3М Brg Width = 4.0 Min Req = 1.5 Bearings T, S, M, & K are a rigid surface.

### Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 379 - 175

F-G 352 -675 352 C - D 436 - 1601 G-H -675 D-E 445 - 1507 H - I 278 -516 E-F 421 - 1088

## Maximum Bot Chord Forces Per Ply (lbs)

 1533 - 348 1170 - 188	P-0	825	- 96	

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S-C	456 - 1516	F-P	595 - 185
C-R	1780 - 439	O - H	789 - 216
R-D	164 - 474	H - N	168 - 765
D - Q	198 - 444	N - I	1012 - 181
Q-E	386 - 106	I - M	397 - 1570
E - P	246 - 604	M - J	189 - 461

### Chords Tens.Comp. Chords Tens. Comp.

R - Q Q - P	 	P - O	825	-96

FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information

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

The overall height of this truss excluding overhang is 11-0-0.

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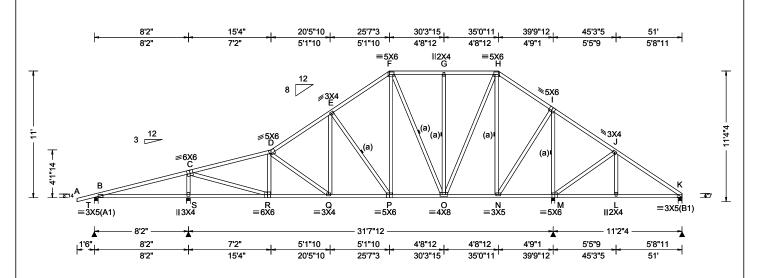
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PROMINE PROMINE

SEQN: 586279 COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T11 /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1607.35180 Qty: 2 Truss Label: A04 / YK 04/01/2020



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 Q 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.163 Q 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.014 S
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.029 S
NCBCLL: 0.00	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: 0.979
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.544
Spacing: 24.0 "	C&C Dist a: 5.10 ft	Rep Fac: Yes	Max Web CSI: 0.727
	Loc. from endwall: Anv	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

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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information

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

The overall height of this truss excluding overhang is 11-0-0.

## ▲ Maximum Reactions (lbs)

	G	ravity	•	Non-Gravity			
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
т	306	<i>I</i> -	/-	/133	/94	/309	
s	1726	<i>I</i> -	<i> </i> -	/1011	/302	<i>I</i> -	
М	1977	/-	/-	/1126	/346	/-	
K	289	/-	/-	/241	/39	/-	
Wir	nd read	tions b	ased on N	<b>MWFRS</b>			
Т	Brg V	/idth =	4.0	Min Re	q = 1.5	i	
S	Brg V	/idth =	4.0	Min Re	q = 1.7		
М	Brg V	/idth =	3.5	Min Re	q = 2.3		
K	Brg V	/idth =	4.0	Min Re	q = 1.5	i	
Bearings T, S, M, & K are a rigid surface.							
Members not listed have forces less than 375#							
Ma	Maximum Top Chord Forces Per Ply (lbs)						

## Chords Tens. Comp. Chords Tens.Comp.

B - C	381 - 177	F-G	411	- 673
C - D	653 - 1664	G-H	411	- 673
D-E	599 - 1530	H-I	312	- 506
E-F	506 - 1093	I - J	386	- 54

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

Cnoras	rens.Con	٦p.	Cnoras	rens. C	omp.
R-Q Q-P	1591 - 5 1186 - 2		P - O	830	-96

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
S-C	733 - 1517	F-0	143 - 389	)
C-R	1838 - 657	O - H	806 - 281	
R-D	225 - 453	H - N	225 - 787	•
D - Q	363 - 496	N - I	1037 - 247	,
Q-E	416 - 209	I - M	521 - 1601	
E-P	339 - 625	M - J	222 -462	2
F-P	612 - 262			

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

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

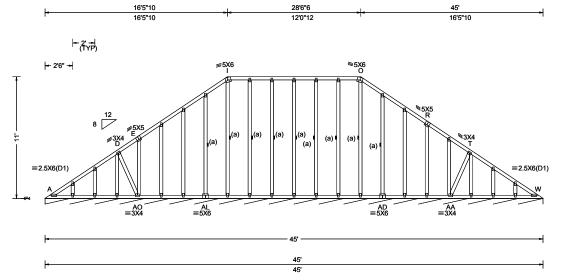
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SEQN: 580625 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T49 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06183 Qty: 2 Truss Label: B01 / YK 04/01/2020



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): 0.002 AR 999 240	!
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 AR 999 180	١
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.003 M	١
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 M	١
NCBCLL: 10.00	Mean Height: 26.87 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	E
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.061	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.049	
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.160	
	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		Additional Notes		

### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL W\* 98 /-/-/50 Wind reactions based on MWFRS W Brg Width = 540 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;

### **Bracing**

(a) Continuous lateral restraint equally spaced on

### **Plating Notes**

All plates are 2X4 except as noted.

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

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.

Uplifts based on an elevation at or above 1000 ft.

Refer to General Notes for additional information See DWGS A14030ENC101014 & GBLLETIN0118 for

gable wind bracing and other requirements. WARNING: Furnish a copy of this DWG to the

installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



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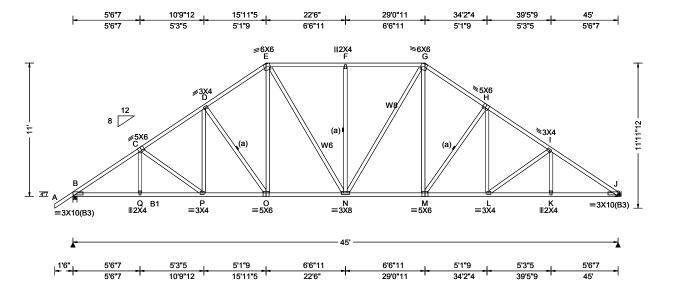
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SEQN: 580628 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T45 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06839 Qty: 11 Truss Label: B02 / YK 04/01/2020



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): 0.208 F 999 240			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.376 F 999 180			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.095 K			
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.172 K			
NCBCLL: 10.00	Mean Height: 26.87 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: 0.644			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.957			
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.568			
'	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

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B1 2x4 SP M-31; Webs: 2x4 SP #3; W6,W8 2x4 SP M-31;

### **Bracing**

(a) Continuous lateral restraint equally spaced on member

### Hangers / Ties

(J) Hanger Support Required, by others

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

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

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

Uplifts based on an elevation at or above 1000 ft.

## **Additional Notes**

Refer to General Notes for additional information

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

The overall height of this truss excluding overhang is 11-0-0.

	▲ Maximum Reactions (lbs)							
ŧ		Gravity	-	No	n-Grav	/ity		
0	Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL		
0	B 232	21 /-	/-	/1232	/459	/477		
	J 221	1 /-	/-	/1136	/422	/-		
	Wind re	actions b	ased on	MWFRS				
	B Bro	Width =	4.0	Min Re	q = 1.9			
	J Bro	y Width =	-	Min Re	7 = -			
	Bearing	B is a riç	gid surfac	e.				
	Membe	rs not list	ed have t	forces less	than 3	375#		
	Maxim	um Top (	Chord Fo	rces Per	Ply (lb:	s)		
	Chords	Tens.C	omp.	Chords	Tens.	Comp.		
	B-C	800 -	3520	F-G	744	- 2457		
	C-D		3212		735			
	D-E	-	2780	-	779			
	E-F		2457	l-J	814	- 3561		

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

Chords	Tens.Comp.		Chords	Tens. (	Comp.
B - Q	2838	- 605	N - M	2240	- 213
Q-P	2837	- 605	M - L	2595	- 399
P - O	2587	- 443	L-K	2876	- 585
O - N	2236	- 268	K-J	2877	- 585

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
P - D	404 - 115	N - G	415 - 183	
D - O	325 - 615	G - M	778 - 256	
E - O	773 - 253	M - H	328 - 623	
E-N	421 - 180	H-L	422 - 127	
F-N	111 - 439			

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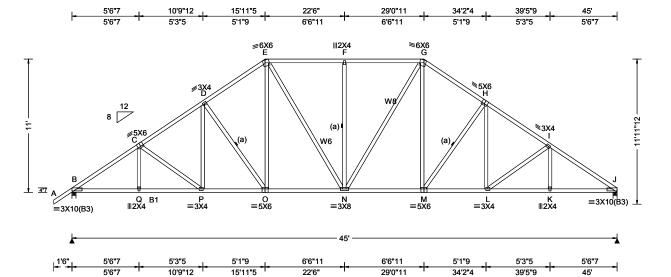
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SEQN: 580631 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T46 / FROM: CDM /Crosby /SPARKS CONST. Qty: 2 DrwNo: 092.20.1616.06823 Truss Label: B03 / YK 04/01/2020



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/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.208 F 999 240	Ŀ
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.377 F 999 180	В
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.096 K	J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.173 K	W
NCBCLL: 10.00	Mean Height: 26.87 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: 0.644	J
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.978	В
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.413	N
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		M
	GCpi: 0.18	Plate Type(s):		=
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	В
				·C

## Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B1 2x4 SP M-31; Webs: 2x4 SP #3; W6,W8 2x4 SP M-31;

(a) Continuous lateral restraint equally spaced on

### Loading

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

### **Purlins**

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information

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The overall height of this truss excluding overhang is

## ▲ Maximum Reactions (lbs)

				(			
		Gravi	ty	No	on-Grav	vity	
	Loc F	R+ / F	R- / Rh	/ Rw	/ U	/ RL	
	В 23	20 /-	/-	/1232	/363	/477	
		12 /-	/-	-	/333		
	Wind r	eaction	s based o	n MWFRS			
	B Br	g Widtl	h = 4.0	Min Re	q = 1.9	)	
	J Br	g Widtl	h = 4.0	Min Re	q = 2.6	6	
	Bearin	gs B &	J are a rig	jid surface.			
	Memb	ers not	listed hav	e forces less	s than 3	375#	
	Maxim	num To	p Chord	Forces Per	Ply (lb	s)	
	Chords	s Tens	.Comp.	Chords	Tens.	Comp.	
_	B-C	55	0 - 3519	F-G	602	- 2455	

B-C	220 - 3219	r - G	002	- 2400
C-D	541 - 3210	G-H	522	- 2780
D-E	523 - 2778	H - I	539	- 3219
E-F	602 - 2455	I - J	554	- 3547

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

Chords	Tens.C	comp.	Chords	Tens. (	Comp.
B-Q	2837	-410	N - M	2237	- 142
Q-P	2836	- 411	M - L	2591	- 260
P - O	2585	- 285	L-K	2863	- 384
O - N	2235	- 154	K - J	2864	- 384

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens. (	Comp.	
P-D	404	-83	N - G	416	- 182	
D - O	242	- 615	G - M	775	- 186	
E - O	773	- 185	M - H	243	- 621	
E-N	420	- 180	H - L	417	- 105	
F-N	88	- 439				



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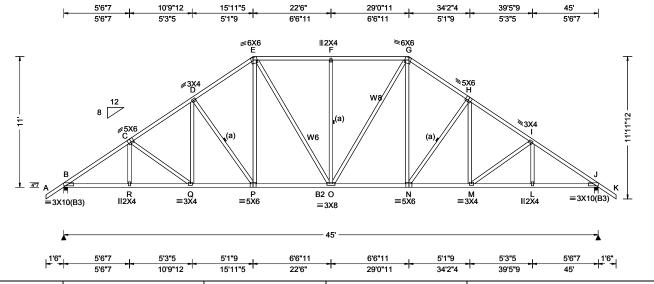
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 580634 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T47 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06027 Qtv: 4 Truss Label: B04 / YK 04/01/2020



Loading Criteria (pst)	wing Criteria	Snow Criteria (Pg,Pf in PSF)	Deti/CSi Criteria	14
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): 0.201 F 999 240	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.363 F 999 180	le
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.087 L	J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.157 L	۷
NCBCLL: 10.00	Mean Height: 26.87 ft	Code / Misc Criteria	Creep Factor: 2.0	E
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.644	J
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.951	E
Spacing: 24.0 "	C&C Dist a: 4.50 ft	Rep Fac: Yes	Max Web CSI: 0.411	N
-  -  -  -  -  -  -  -  -  -  -  -  -	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		"
	GCpi: 0.18	Plate Type(s):		] -
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	E
	I .			٦ (

## Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP M-31; B2 2x4 SP #2; Webs: 2x4 SP #3; W6,W8 2x4 SP M-31;

(a) Continuous lateral restraint equally spaced on

### Loading

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

### **Purlins**

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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The overall height of this truss excluding overhang is

## ▲ Maximum Reactions (lbs)

	Gı	ravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	2317	/-	<i>I</i> -	/1232	/363	/498
J	2317	/-	/-	/1232	/363	/-
Win	d reac	tions bas	sed on M	<b>IWFRS</b>		
В	Brg W	/idth = 4.	.0	Min Red	1.9	
J	Brg W	/idth = 4.	.0	Min Red	= 1.9	
Bea	rings E	3 & J are	a rigid s	surface.		
Mer	nbers i	not listed	have fo	rces less	than 3	75#
Maximum Top Chord Forces Per Ply (lbs)						
Cho	rds T	ens.Com	1p. (	Chords	Tens.	Comp.
	_					

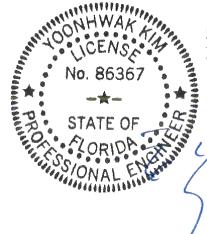
B - C	5 <del>44</del> - 3515	F-G	601	- 2450
C - D	535 - 3207	G-H	519	- 2774
D-E	520 - 2775	H - I	534	- 3207
E-F	601 - 2450	I - J	542	- 3516

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

Tens.C	Comp.	Chords	Tens. Comp	
2834	- 376	O - N	2232	- 109
2833	- 376	N - M	2582	- 226
2582	- 250	M - L	2835	- 339
2232	- 152	L - J	2835	- 339
	2834 2833 2582	Tens.Comp.  2834 - 376 2833 - 376 2582 - 250 2232 - 152	2834 - 376 O - N 2833 - 376 N - M 2582 - 250 M - L	2834 - 376 O - N 2232 2833 - 376 N - M 2582 2582 - 250 M - L 2835

### Maximum Web Forces Per Ply (lbs)

webs	Tens.Comp.		webs	Tens. Comp.	
Q - D	404	-83	0 - G	417	- 180
D - P	242	- 615	G - N	772	- 184
E-P	773	- 185	N - H	241	-613
E - O	417	- 180	H - M	405	- 85
F - O	89	- 439			



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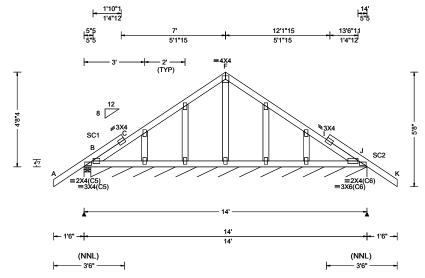
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6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 580619 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T39 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06246 Qty: 2 Truss Label: B1A / YK 04/01/2020



TCLL: 20.00 Wind Std: ASCE 7-10 Pg: N TCDL: 10.00 Speed: 130 mph Pf: N BCLL: 0.00 Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2 Spacing: 24.0 "Wind Std: ASCE 7-10 Pg: N Pf: N Enclosure: Closed Lu: N Snow EXP: C Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 5.0 psf WWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any	A Ce: NA Duration: NA  / Misc Criteria Code: FBC 2017 RES td: 2014 fac: Yes Γ:20(0)/10(0) Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.001 L 999 240 VERT(CL): 0.003 L 999 180 HORZ(LL): 0.002 l HORZ(TL): 0.002 l Creep Factor: 2.0	
--	--	---	--

### Reactions (lbs), or \*=PLF Non-Gravity /Rh /Rw / U /RL /182 /188 /47 /s based on MWFRS 1 = 4.0Min Rea = 1.5Min Req = n = 164 B are a rigid surface. listed have forces less than 375#

### Lumber

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

Stack Chord: SC2 2x4 SP #2;

### **Plating Notes**

All plates are 2X4 except as noted.

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information See DWGS A14030ENC101014 & 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 4-8-4.



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

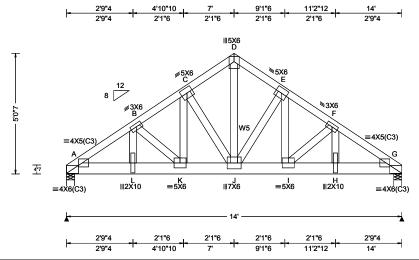
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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.



SEQN: 580636 / COMN Ply: 2 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T42 / /Crosby /SPARKS CONST. FROM: CDM Qty: 2 DrwNo: 092.20.1616.06325 Truss Label: B2A / YK 04/01/2020

### 2 Complete Trusses Required



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: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 22.20 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	, ,	PP Deflection in loc L/defl L/# VERT(LL): 0.084 I 999 240 VERT(CL): 0.167 I 986 180 HORZ(LL): 0.027 B HORZ(TL): 0.054 B Creep Factor: 2.0	L A G B M C A B
Lumber				_

## ▲ Maximum Reactions (lbs)

Gravity				Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
A	7091	/-	/-	/-	/1466	/-	
G	7212	<i>j</i> -	/-	1-	/1489	<i>I</i> -	
Win	d read	ctions b	ased on	MWFRS			
Α	Brg V	Vidth =	4.0	Min Re	q = 2.9		
G Brg Width = 4.0				Min Re	q = 3.0		
Bea	rings .	A & G a	are a rigi	d surface.			
Men	nbers	not list	ed have	forces less	s than 3	75#	
Max	imun	Top (	Chord Fo	orces Per	Ply (lbs	s)	
Cho	rds 1	ens.C	omp.	Chords	Tens.	Comp.	
A - E	3	1124 -	5457	D-E	754	- 3654	
B - 0	_		4696		969	- 4703	
C - I	)	754 -	3654	F-G	1130	- 5486	

Top chord: 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W5 2x4 SP M-31;

### **Nailnote**

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 2 Rows @ 3.50" o.c. (Each Row) Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.

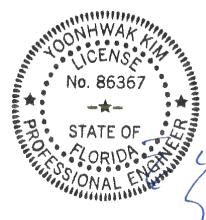
### **Special Loads**

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 0.00 to 0.00 to 64 plf at 10 plf at TC: From 64 plf at 14.00 10 plf at 14.00 BC: 2211 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06.12.06

Wind loads and reactions based on MWFRS. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 5-0-7.



## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	comp.	Chords	Tens. Comp.	
A - L	4512	- 925	J - I	3790	- 776
L-K	4480	- 919	I-H	4504	- 923
K - J	3786	- 776	H-G	4538	- 929

### Maximum Web Forces Per Ply (lbs)

Webs	rens.comp.	webs	rens. Comp.	
L-B	945 - 171	J - E	289 - 1400	
B - K	170 - 815	E-I	1730 - 333	
K - C	1718 - 331	I-F	175 - 841	
C-J	288 - 1391	F-H	972 - 176	
D - J	3905 - 777			

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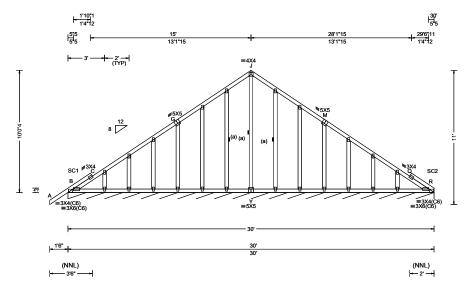
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

\*\*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.



SEQN: 580520 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T4 / FROM: CDM /Crosby /SPARKS CONST. Qty: 1 DrwNo: 092.20.1616.06621 Truss Label: C01 / YK 04/01/2020



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 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 TCDL: 5.0 psf BCDL: 5.0 psf WWFRS Parallel D C&C Dist a: 3.00 ft Loc. from endwall:	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)	PP Deflection in loc L/defl L/# VERT(LL): 0.003 Q 999 240 VERT(CL): 0.005 Q 999 180 HORZ(LL): 0.004 K HORZ(TL): 0.005 I Creep Factor: 2.0	A Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL  B* 87 /- /- /49 /14 /10 Wind reactions based on MWFRS B Brg Width = 360 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#
GCpi: 0.18 Wind Duration: 1.6	Plate Type(s): WAVE	VIEW Ver: 18.02.01B.0321.08	

### Lumber

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

Stack Chord: SC2 2x4 SP #2;

### **Bracing**

(a) Continuous lateral restraint equally spaced on member.

### **Plating Notes**

All plates are 2X4 except as noted.

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

Uplifts based on an elevation at or above 1000 ft.

### **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 10-0-4.



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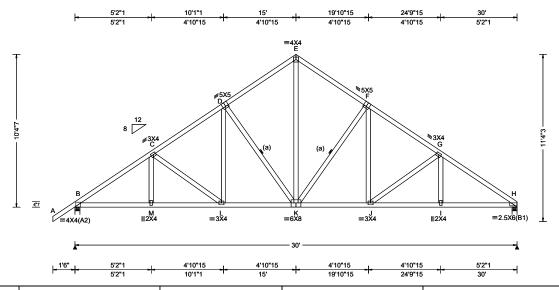
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal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



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

SEQN: 580522 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T2 / FROM: CDM /Crosby /SPARKS CONST. Qty: 8 DrwNo: 092.20.1616.06371 Truss Label: C02 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	1
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C 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): 0.076 K 999 240 VERT(CL): 0.153 K 999 180 HORZ(LL): 0.035 I HORZ(TL): 0.071 I -	
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 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	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	B H B M C B C
Lumber				

▲ Maxi	▲ Maximum Reactions (lbs)							
	Gravity		No	on-Grav	/ity			
Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL			
B 14	19 /-	/-	/832	/224	/311			
H 12	38 /-	/-	/741	/196	/-			
Wind re	eactions b	ased on	MWFRS					
B Br	g Width =	4.0	Min Reg = 1.7					
H Br	g Width =	4.0	Min Req = 1.5					
Bearing	gsB&Ha	are a rigio	d surface.					
Membe	ers not list	ed have f	forces les	s than 3	375#			
Maxim	um Top (	Chord Fo	rces Per	Ply (lb:	s)			
Chords	Tens.C	omp.	Chords	Tens.	Comp.			
в-с	503 -	1979	E-F	468	- 1265			
C-D	493 -	1669	F-G	496	- 1633			
D-E	468 -	1266	G - H	515	- 1967			

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

Top chord: 2x4 SP #2;

**Bracing** (a) Continuous lateral restraint equally spaced on

### Loading

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

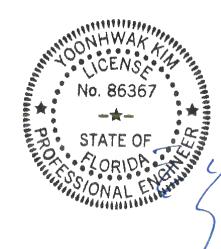
### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 10-4-7.



Maximum Bot Chord Forces Per Ply (lbs) Tens. Comp. Chords Tens.Comp. Chords B - M 1567 - 338 1277 - 205 M - L 1566 - 339 J - I 1562 - 351 L-K 1 - H 1563 1307 - 203 - 351 Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp. D-K 241 - 563 244 - 511 E-K 1000 - 379

FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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

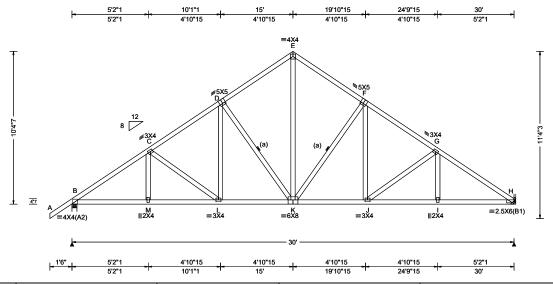
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Refer to discharge (FITM Building)



SEQN: 580524 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T6 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06107 Qty: 9 Truss Label: C03 / YK 04/01/2020



TCLL: 20.00	ı	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
NCBCLL: 10.00   Soffit: 2.00   Load Duration: 1.25   Spacing: 24.0 "   C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18   Cde / Misc Criteria   Bldg Code: FBC 2017 RES   Max TC CSI: 0.368   Max BC CSI: 0.580   Max Web CSI: 0.539   Max Web CSI: 0.539   FT/RT:20(0)/10(0)   Plate Type(s):		TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA	Pf: NA Ce: NA Lu: NA Cs: NA	VERT(LL): 0.076 K 999 240 VERT(CL): 0.153 K 999 180 HORZ(LL): 0.035 I
		NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	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	Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Max TC CSI: 0.368 Max BC CSI: 0.580 Max Web CSI: 0.539

1	▲ Maximum Reactions (lbs)							
		Gravity		N	on-Grav	vity		
L	oc R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
E	3 142	0 /-	/-	/832	/224	/311		
H	H 128	8 /-	/-	/740	/196	/-		
١	Nind re	actions b	ased on	MWFRS				
E	Brg	Width =	4.0	Min Re	q = 1.7	•		
ŀ	H Brg	Width =	-	Min Re	q = -			
E	Bearing	B is a rig	gid surfac	ce.	•			
1	Membei	s not list	ed have	forces les	s than 3	375#		
1	Maximu	m Top (	Chord Fo	orces Per	Ply (lb	s)		
9	Chords	Tens.C	omp.	Chords	Tens.	Ćomp.		
<b>∣</b> E	3 - C	356 -	1980	E-F	365	- 1267		
ا ر	C - D	362 -	1671	F-G	378	- 1636		
		000	4007	A 11	000	4070		

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

(a) Continuous lateral restraint equally spaced on member.

### Hangers / Ties

Top chord: 2x4 SP #2;

(J) Hanger Support Required, by others

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

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 10-4-7.



B 142	0 /-	/-	/832	/224	/311
H 128	8 /-	/-	/740	/196	/-
Wind re	actions I	based o	n MWFRS		
B Brg	Width =	= 4.0	Min Re	q = 1.7	
H Brg	Width =	<b>:</b> -	Min Re	- = p	
Bearing	B is a ri	gid surf	ace.		
Membe	rs not lis	ted hav	e forces les	s than 3	375#
Maximu	ım Top	Chord I	Forces Per	Ply (lb:	s)
Chords	Tens.C	omp.	Chords	Tens.	Comp.
в-с	356	- 1980	E-F	365	- 1267
C-D		- 1671		378	
D-E	360	- 1267	G-H	388	- 1976
		-	_		

Chords Tens.Comp.

Maximum Bot Chord Forces Per Ply (lbs)

B - M M - L		- 229 - 229	K - J J - I	1279 1570	
L-K	1309	- 132	I-H	1571	- 247

Chords Tens. Comp.

## Maximum Web Forces Per Ply (lbs)

webs	rens.comp.	webs	rens. Comp.		
D-K	182 - 563	K-F	185	- 513	
E-K	1001 - 278				

FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

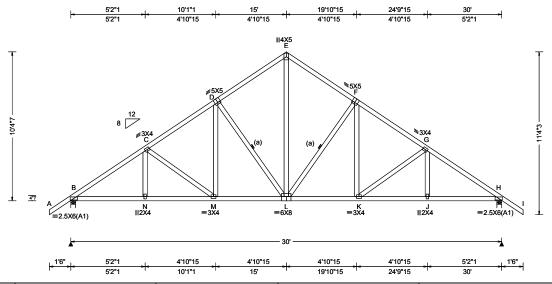
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SEQN: 580526 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T7 / FROM: CDM /Crosby /SPARKS CONST. Qty: 1 DrwNo: 092.20.1616.05951 Truss Label: C04 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	<b>A</b>
Coading Criteria (psf)	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	l , o	Defl/CSI Criteria	B H W B H B M C B
Lumber				⊐ C

### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 1364 /-/832 /223 /331 1364 /832 /223 /-Wind reactions based on MWFRS Brg Width = 4.0 Min Reg = 1.6Brg Width = 4.0 Min Req = 1.6 Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords B - C C - D 499 - 1886 463 - 1203 487 - 1567 F-G 487 - 1567 498 - 1886 D-E 463 - 1203 G-H

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

### **Bracing**

(a) Continuous lateral restraint equally spaced on

### Wind

Wind loads based on MWFRS with additional C&C

Uplifts based on an elevation at or above 1000 ft.

### 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 - N	1490	- 283	L-K	1224	- 160
N - M	1489	- 283	K-J	1489	- 297
M - L	1224	- 158	J - H	1490	- 296

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
D-L	241 - 510	L-F	241 - 510		

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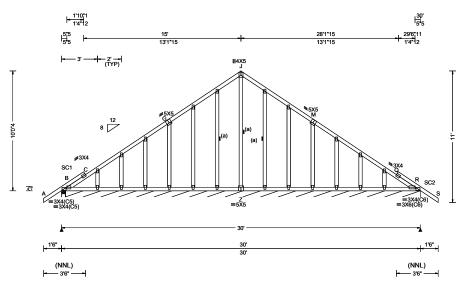
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SEQN: 580483 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T5 / FROM: CDM Qty: 1 /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06465 Truss Label: C05 / YK 04/01/2020



Loading Criteria (psf) TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-10	Snow Criteria (Pg,Pf in PSF) Pa: NA Ct: NA CAT: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/#	▲ Maximum Reacti
TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Speed: 130 mph Enclosure: Closed Risk Category: II	Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	VERT(LL): 0.002 J 999 240 VERT(CL): 0.003 T 999 180 HORZ(LL): 0.005 N	Loc R+ /R- / B 279 /- / B* 83 /- /
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.006 N Creep Factor: 2.0 Max TC CSI: 0.205 Max BC CSI: 0.078 Max Web CSI: 0.111	Wind reactions base B Brg Width = 4.0 B Brg Width = 35t Bearings B & B are a Members not listed h
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	

### tions (lbs), or \*=PLF Non-Gravity /Rh /Rw / U /RL /159 /328 /45 /15 /sed on MWFRS 0. Min Rea = 1.5Min Reg = -55 e a rigid surface. have forces less than 375#

### Lumber

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

### **Bracing**

(a) Continuous lateral restraint equally spaced on member.

### **Plating Notes**

All plates are 2X4 except as noted.

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

### Wind

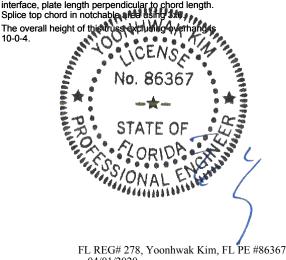
Wind loads based on MWFRS with additional C&C member design.

Uplifts based on an elevation at or above 1000 ft.

### **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 a said using \$100.



04/01/2020

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

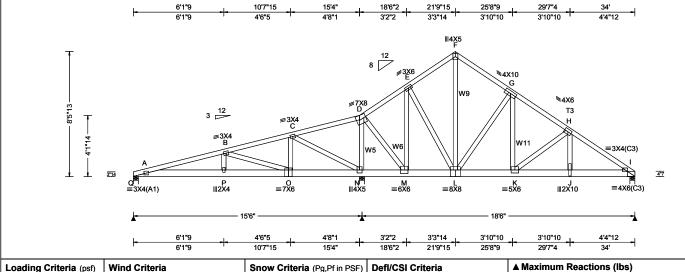
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 586046 / COMN Ply: 2 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T19 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06932 Qty: 1 Truss Label: D01 / YK 04/01/2020

### 2 Complete Trusses Required



Louding Officeria (par)	Willia Officeria	Onow Onteria (i g,i i iii i oi )	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): 0.069 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.139 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.020 E
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.041 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: 0.350
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.475
Spacing: 24.0 "	C&C Dist a: 3.40 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.807
	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: 18.02.01B.0321.08
Lumber			

### Gravity Non-Gravity Loc R+ /Rh /Rw / U /RL Q 321 Ν 8297 /-/1382 /-5803 /-/954 Wind reactions based on MWFRS

Brg Width = 4.0 Min Req = 1.5 a Brg Width = 4.0 Min Req = 3.1 Brg Width = 4.0 Min Rea = 2.4Bearings Q, N, & 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	554 -86	F-G	315	- 1928
C - D	845 - 148	G-H	529	- 3224
D-E	216 - 1387	H-I	721	- 4387
F-F	311 - 1919			

Top chord: 2x4 SP #2; T3 2x4 SP M-31; Bot chord: 2x6 SP 2400f-2.0E;

Webs: 2x4 SP #3; W5,W6,W9,W11 2x4 SP M-31;

### **Nailnote**

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @ 4.50" o.c. Webs : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

### **Special Loads**

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 0.00 to 61 plf at 61 plf at 15.33 15.33 to 64 plf at 34.00 TC: From 64 plf at BC: From 20 plf at 0.00 to 20 plf at 16.06 BC: From 10 plf at 16.06 to 10 plf at 34.1 BC: 1288 lb Conc. Load at 16.06,18.06,19.94,21.94 34 00 23.94,25.94,27.94,29.94,31.94

Wind loads and reactions based on MWFRS. Uplifts based on an elevation at or above 1000 ft.

### **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	ords Tens.Comp.		Chords	Tens. (	Comp.
O - N	76	- 537	L-K	2576	- 417
N - M	137	- 804	K-J	3598	- 586
M - L	1170	- 177	J - I	3626	- 590

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
B - O	87 - 449	F-L	1971 - 287	
D - N	577 - 3310	L-G	292 - 1756	
D - M	2939 - 488	G-K	2046 - 310	
M - E	225 - 1215	K - H	202 - 1210	
E-L	925 - 153	H - J	1272 - 182	

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SEQN: 580530 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T3 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06604 Qty: 4 Truss Label: D02 / YK 04/01/2020 5'9"7 10'7"9 15'4' 21'9"15 27'8"9 5'9"7 4'10"3 4'8"7 6'5"15 5'10"9 6'3"7 =5<u>¥</u>5 **₩6**X6 3 12 (a) 9.2.6 4'1"14 ≢3X4 C 4"7 =3X4(A1) \_L 門 ≡3X4 N ∥2X4 M ≡5X5 K ≡6X8 ∥2X4 15'6" 18'6" 5'9"7 4'10"3 4'8"7 6'5"15 5'10"9 6'3"7 5'9"7 10'7"9 15'4' 21'9"15 27'8"9 34'

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): 0.034 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.072 N 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.009 J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.017 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: 0.582
Load Duration: 1.25	MWFRS Parallel Dist: > 2h	TPI Std: 2014	Max BC CSI: 0.418
Spacing: 24.0 "	C&C Dist a: 3.40 ft	Rep Fac: Yes	Max Web CSI: 0.492
' '	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	•		

AN	▲ Maximum Reactions (lbs)							
	G	ravity	•	No	on-Grav	vity		
Loc	c R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
0	549	/-	/-	/261	/116	/255		
L	1722	/-	/-	/940	/52	/-		
Н	811	/-	/-	/535	/6	/-		
Wi	nd reac	tions b	ased on	MWFRS				
0	Brg V	Vidth =	4.0	Min Re	q = 1.5	;		
L	Brg V	Vidth =	4.0	Min Re	q = 1.7	,		
Н	Brg V	Vidth =	4.0	Min Re	q = 1.5	j		
Be	Bearings O, L, & H are a rigid surface.							
Me	Members not listed have forces less than 375#							
Ma	ximum	Top C	hord Fo	rces Per	Ply (lb	s)		
Ch	ords T	ens.Co	omp.	Chords	Tens.	Comp.		

### B - C 202 - 913 F-G 160 -463 G-H 169 D-E 736 - 101 -905 - 467 E-F 161

### **Bracing**

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

(a) Continuous lateral restraint equally spaced on

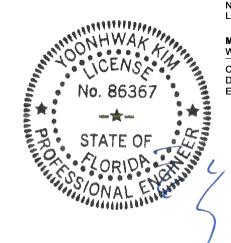
### Wind

Wind loads based on MWFRS with additional C&C

Uplifts based on an elevation at or above 1000 ft.

### **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.		ns.Comp. Chords		Tens. Comp.		
B - N	857	- 140	K-J	665	-32	
N - M	848	- 141	J - H	667	-32	
L-K	232	- 677				

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.		
C - M	181	- 805	E-K	1020	- 118	
D-L	203	- 840	K-G	166	- 460	
E-L	290 -	- 1184				

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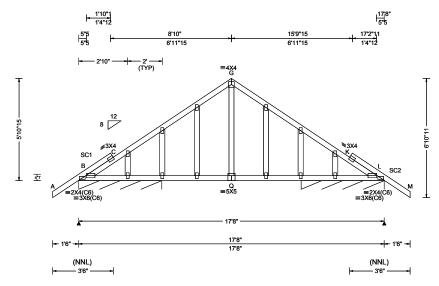
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal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



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

SEQN: 580577 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T27 / FROM: CDM Qty: 1 /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06339 Truss Label: G01 / YK 04/01/2020



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): 0.012 H 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.023 F 999 180	B* 176 /- /- /120 /28 /44
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 I	L* 176 /- /- /120 /28 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.011 I	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 57.7 Min Req = -
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.204	L Brg Width = 57.7 Min Req = -
Load Duration: 1.25	BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.195	Bearings B & O are a rigid surface.
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.050	Members not listed have forces less than 375#
Spacing, 24.0		FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	1 ' ' ' '		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		B-Q 516 -125 Q-L 516 -116
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	D - Q

### Lumber

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

Stack Chord: SC2 2x4 SP #2;

### **Plating Notes**

All plates are 2X4 except as noted.

### Loading

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.

Uplifts based on an elevation at or above 1000 ft.

### **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 5-10-15.



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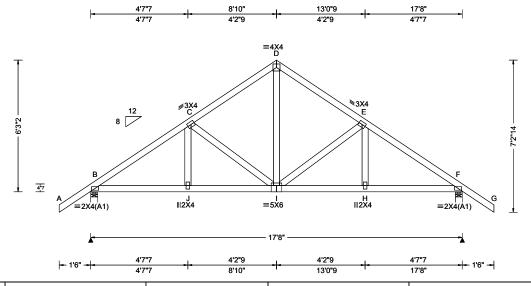
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SEQN: 580580 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T23 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06261 Qty: 1 Truss Label: G02 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (It	bs)
TCLL: 20.00	Wind Std: ASCE 7-10	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): 0.022 I 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.046 I 999 180	B 846 /- /-	/529 /140 /216
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.011 H	F 846 /- /-	/529 /140 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.022 H	Wind reactions based on M	/WFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 4.0	Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.234	F Brg Width = 4.0	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.254	Bearings B & F are a rigid	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.138	Members not listed have for	
Spacing, 24.0		FT/RT:20(0)/10(0)		Maximum Top Chord For	• • •
	Loc. from endwall: Any	1 ', ',		Chords Tens.Comp. (	Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):			
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		D - E 252 - 720
				¹C-D 252 -720 E	E - F 263 - 1010

### Lumber

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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.

773 - 97 771 - 110 J - I 771 - 98 H-F 773 - 109

### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. D - I 452 - 162



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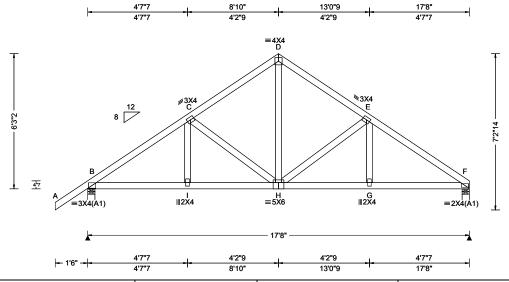
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Refer to discharge (FITM Building)



SEQN: 580583 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T28 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06077 Qty: 1 Truss Label: G03 / YK 04/01/2020



Loading Criteria (psf) Wind	l Criteria	Snow Cri	i <b>teria</b> (Pg.	Pf in PSF)	Defl/CSI Criteria			▲ M	aximu	ım Read	ctions	(lbs)		
" ,	Std: ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/	defl L/#			ravity		N	on-Gra	vity
TCDL: 10.00 Speed	ed: 130 mph	Pf: NA		Ce: NA	VERT(LL): 0.022	2 H S	999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
DOLL. 0.00   1 1 1	osure: Closed	Lu: NA	Cs: NA		VERT(CL): 0.045	5 H S	999 180	В	851	/-	/-	/529	/142	/197
I BCDL. IU.UU I	Category: II	Snow Dui	ration: NA	4	HORZ(LL): 0.011	l G		F	737	<i>I</i> -	<i>I</i> -	/436	/113	<i>I</i> -
Doc   d: 40 00	C Kzt: NA				HORZ(TL): 0.022	2 G		Win	d read	ctions ba	sed or	MWFRS		
NCDCLL 10 00 Mean	n Height: 15.00 ft L: 5.0 psf	Code / M	isc Crite	ria	Creep Factor: 2.0	)			_	Vidth = 4	-	Min Re		
I CDL.	L: 5.0 psf	Bldg Code	e: FBC 2	017 RES	Max TC CSI: 0	.235				Vidth = 4	-		eq = 1.5	<b>j</b>
	RS Parallel Dist: 0 to h/2	TPI Std: 2	2014		Max BC CSI: 0.	.286			•		•	d surface.		
1	Dist a: 3.00 ft	Rep Fac:	Yes		Max Web CSI: 0.	.151		_				forces les		-
'	from endwall: not in 4.50 ft	FT/RT:20	(0)/10(0)							Tens.Co		orces Per Chords	• •	S) Comp.
	GCpi: 0.18	Plate Typ	e(s):						iua i	6113.001	πp.	Cilolus	16113.	comp.
Wind I	Duration: 1.60	WAVE			VIEW Ver: 18.02	.01B.0	321.08	B - 0	-	207 - 1		D-E E-E	218	- 731 - 1038

### Lumber

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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	780 - 113	H - G	800 - 121	
I - H	779 - 113	G - F	802 - 121	

### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. D - H 466 - 137



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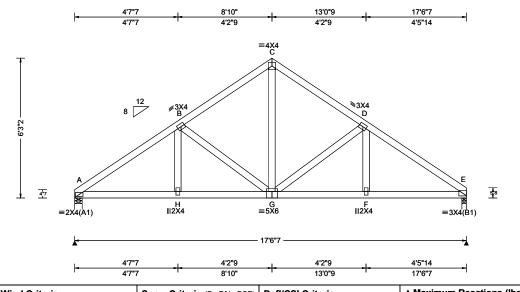
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SEQN: 580590 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T35 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06136 Qty: 4 Truss Label: G04 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (II)	DS)
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): 0.022 G 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.046 G 999 180	A 739 /- /-	/434 /114 /162
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.010 F	E 735 /- /-	/430 /114 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.022 F	Wind reactions based on M	//WFRS
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	A Brg Width = 4.0	Min Req = 1.5
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.193	E Brg Width = 2.4	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.281	Bearings A & E are a rigid	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.180	Members not listed have for Maximum Top Chord For	
' "	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)			• • •
		Plate Type(s):		Chords Tens.Comp.	Chords Tens. Comp.
	GCpi: 0.18	J. ( )		A D 000 4040	O D 000 700
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		C - D 220 - 733 D - E 227 - 1027
				-B-C 220 -734 I	J-E 221 - 1021

### 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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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

WIGAIIIIU	waxiiilulii bot Cilolu Folces Fei Fly (lbs)								
Chords	Tens.C	Comp.	Chords	Tens. (	Comp.				
A - H	804	- 126	G-F	788	- 124				
H-G	803	- 126	F-E	790	- 123				

Maximum Bot Chard Farces Dar Dly (lbs)

### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. C-G 471 - 141



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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

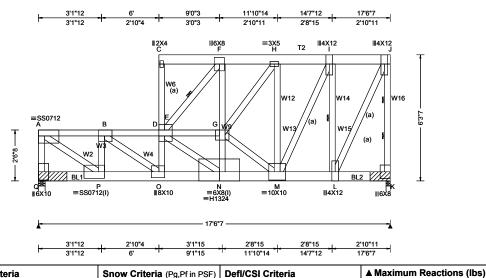
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SEQN: 580797 / COMN Ply: 2 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T41 / /Crosby /SPARKS CONST. DrwNo: 092.20.1616.05904 FROM: CDM Qty: 1 Page 1 of 2 Truss Label: G05 / YK 04/01/2020

### 2 Complete Trusses Required



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): 0.215 C 980 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.427 C 492 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.061 A
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.122 A
NCBCLL: 0.00	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: 0.792
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.958
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0.959
1,11,0	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	18SS, WAVE, HS	VIEW Ver: 18.02.01B.0321.08
Lumber		Purlins	

### Lumber

Top chord: 2x4 SP M-31; T2 2x6 SP 2400f-2.0E; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #2; W2,W4,W9,W13,W15 2x4 SP M-31; W3,W6,W12,W14,W16 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on member

### Nailnote

Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 2 Rows @ 2.50" 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) 60 plf at 20 plf at 0.00 to 60 plf at 20 plf at TC: From 17.54 BC: From 0.00 to 10 plf at 6.94 to 10 plf at BC: 2228 lb Conc. Load at 0.48, 2.48, 4.48, 5.85 BC: 2497 lb Conc. Load at 6.94, 8.94,10.94,12.94 BC: 613 lb Conc. Load at 14.94 BC: 598 lb Conc. Load at 15.60

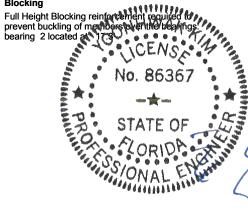
### **Plating Notes**

All plates are 7X8 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance. The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind loads and reactions based on MWFRS. End verticals not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Blocking**



### Non-Gravity Gravity Loc R+ /Rh /Rw /U /RL Q 12378 /-/1921 /73 9031 /-/1165 /1157 /-Wind reactions based on MWFRS Brg Width = 4.0 a Min Rea = -Brg Width = 2.4 Min Rea = -Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp. 1041 - 7044 339 - 2861 B - D 1524-11219 H - I 448 - 3736 D - G 633 - 4760 255 - 2052 I - J

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Tens. Comp. Chords P - 0 7466 - 1094 N - M 7548 -962 11307 - 1525 2222 - 276 O - N M - L

## Maximum Web Forces Per Ply (lbs)

webs	Tens.Comp.	Webs	Tens. Comp.	
A - Q	769 - 5132	N - G	5038 - 602	
A - P	8664 - 1280	G-H	181 - 1440	
P - B	395 - 3158	G - M	636 - 4722	
B - O	4805 - 551	H - M	1085 - 112	
O - D	174 - 666	M - I	3721 - 423	
E-F	563 - 4747	I-L	415 - 3395	
D - N	711 - 4746	L-J	4821 - 599	
F-G	3674 - 406	J - K	566 - 4465	

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 580797 / COMN Ply: 2 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T41 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.05904 Qty: 1 Page 2 of 2 Truss Label: G05 / YK 04/01/2020

### Bearing Block(s)

Brg blocks:0.131"x3", min. nails x-loc #blocks length/blk #nails/blk wall plate 0.000' 1 17" 21 Rigid Surface 17.333' 2 12" 12 Rigid Surface Brg block to be same size and species as chord. Refer to drawing CNNAILSP1014 for more information.

### Additional Notes

Refer to General Notes for additional information Truss must be installed as shown with top chord up. The overall height of this truss excluding overhang is

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

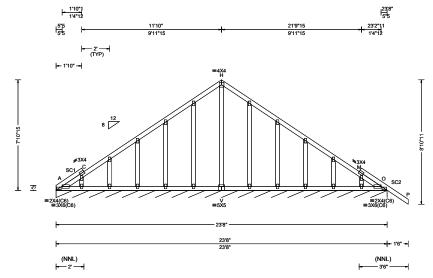
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 580648 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T29 / FROM: CDM /Crosby /SPARKS CONST. Qty: 1 DrwNo: 092.20.1616.06542 Truss Label: H01 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
Loading Criteria (psf)   TCLL: 20.00   TCDL: 10.00   BCLL: 0.00   BCDL: 10.00   Des Ld: 40.00   NCBCLL: 10.00   Soffit: 2.00   Load Duration: 1.25   Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.001 Q 999 240 VERT(CL): 0.003 Q 999 180 HORZ(LL): 0.002 I HORZ(TL): 0.003 I Creep Factor: 2.0	A Maximum Reactions (Ibs), or "=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL A* 88 /- /- /49 /14 /11 Wind reactions based on MWFRS A Brg Width = 283 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; Stack Chord: SC1 2x4 SP #2;

Stack Chord: SC2 2x4 SP #2;

### **Plating Notes**

All plates are 2X4 except as noted.

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 7-10-15.



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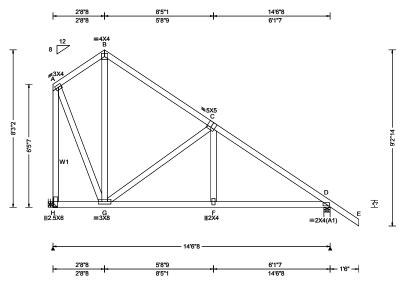
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SEQN: 580651 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T30 / FROM: CDM /Crosby /SPARKS CONST. Qty: 1 DrwNo: 092.20.1616.06075 Truss Label: H02 / YK 04/01/2020



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/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.012 F 999 240	Lo
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.026 F 999 180	Н
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 F	D
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.010 F	W
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Н
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.379	D
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.420	Be
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.440	M
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		C
	GCpi: 0.18	Plate Type(s):		l ÷
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	С
Lumbor				-

▲ Ma	▲ Maximum Reactions (lbs)									
	(	Gravity		No	on-Grav	∕ity				
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
н :	598	/-	/-	/391	/130	/203				
D '	727	/-	/-	/487	/85	<i>I-</i>				
Win	d rea	ctions t	ased on I	<b>MWFRS</b>						
Н	Brg \	Width =	-	Min Re	q = -					
D	Brg \	Width =	4.0	Min Re	q = 1.5	;				
Bea	ring (	) is a ri	gid surface	е.	-					
Men	nbers	not list	ed have fo	orces less	s than 3	375#				
Max	Maximum Top Chord Forces Per Ply (lbs)									
Cho	rds	Tens.C	omp.		•	•				
C - [	)	132	- 769							

Top chord: 2x4 SP #2;

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; W1 2x4 SP #2;

### Hangers / Ties

(J) Hanger Support Required, by others

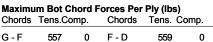
### Wind

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

Left end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 8-3-2.



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

Tens. Comp. A - H 213 - 584 G-C 236 -466 A - G 452 - 155



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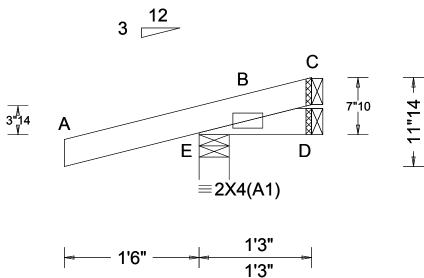
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SEQN: 580592 / **JACK** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T17 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06012 Qty: 4 Truss Label: J01 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maxin
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	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):	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D HORZ(TL): 0.000 D Creep Factor: 2.0 Max TC CSI: 0.255 Max BC CSI: 0.034 Max Web CSI: 0.000	Loc R+ E 233 D 5 C - Wind rea E Brg D Brg C Brg Bearing Member
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumber				

Loc R	Gravity		Nr	on-Grav	vitv
	+ / R-	/ Rh		/ U	/ RL
E 23	3 /-	/-	/139	/111	/26
D 5	/-15	/-	/24	/15	/-
C -	/-21	/-	/25	/18	/-
Wind r	eactions b	ased on I	MWFRS		
E Br	g Width =	4.0	Min Re	q = 1.5	<b>.</b>
D Br	Width =	1.5	Min Re	q = -	
	g Width =		Min Re	g = -	
		gid surface	e.	•	
Membe	ers not list	ed have f	orces less	s than 3	375#

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

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

Uplifts based on an elevation at or above 1000 ft.

### **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 04/01/2020

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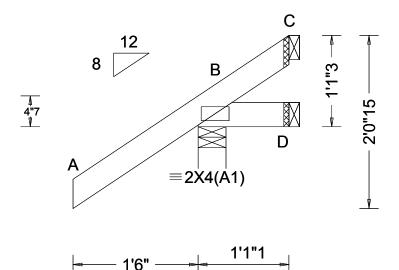
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Refer to distance of ITML Building Office and the standard plate positions.



SEQN: 580566 / **JACK** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T43 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06137 Qty: 2 Truss Label: J1A / YK 04/01/2020



1'1"1

I	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Re
	TCLL: 20.00	Wind Std: ASCE 7-10	3	PP Deflection in loc L/defl L/#	Gravity Loc R+ / R-
l	TCDL: 10.00 BCLL: 0.00	Speed: 130 mph Enclosure: Closed	Pf: NA Ce: NA Lu: NA Cs: NA	VERT(LL): NA VERT(CL): NA	B 254 /-
l	BCDL: 10.00	Risk Category: II EXP: C Kzt: NA	Snow Duration: NA	HORZ(LL): -0.000 D	D 7 /-14
l	Des Ld: 40.00	Mean Height: 15.00 ft	Code / Misc Criteria	HORZ(TL): 0.001 D Creep Factor: 2.0	C - /-46 Wind reactions
l	NCBCLL: 10.00 Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	•	B Brg Width =
l	Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.028	D Brg Width = C Brg Width =
l	Spacing: 24.0 "	C&C Dist a: 3.00 ft Loc. from endwall: Any	Rep Fac: Yes FT/RT:20(0)/10(0)	Max Web CSI: 0.000	Bearing B is a ri
		GCpi: 0.18	Plate Type(s):		Members not lis

WAVE

Defl/CSI Criteria	▲ Maximum Reactions	(lbs)
PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
VERT(LL): NA	Loc R+ /R- /Rh	/Rw /U /RL
VERT(CL): NA HORZ(LL): -0.000 D	B 254 /- /- D 7 /-14 /-	/218 /62 /48 /18 /17 /-
HORZ(TL): 0.001 D	C - /-46 /- Wind reactions based o B Brg Width = 4.0 D Brg Width = 1.5 C Brg Width = 1.5 Bearing B is a rigid surfa Members not listed have	Min Req = 1.5 Min Req = - Min Req = - ace.
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

Wind Duration: 1.60

Uplifts based on an elevation at or above 1000 ft.

### **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!

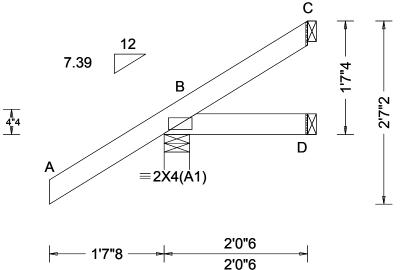
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Refer to distance of ITML Building Office and the standard plate positions.



SEQN: 580564 / HIP\_ Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T38 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.05919 Qty: 2 Truss Label: J1B / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	١.
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): NA	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	ı
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 D	H
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.001 D	(
NCBCLL: 10.00	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: 0.199	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.050	Ľ
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	lì
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		li
	GCpi: 0.18	Plate Type(s):		╽.
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumber				•

▲ N	/laxim	um Rea	ctions (l	•		
	G	aravity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	138 28	/-	/-	/204	/47	/63
D	28	/-5	/-	/29	/10	/-
С	8	/-11	/-	/23	/11	/-
Wi	nd read	ctions b	ased on I	MWFRS		
В	Brg V	Vidth =	4.3	Min Re	q = 1.5	5
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bea	aring B	is a rig	id surfac	e.		
Ме	mbers	not liste	ed have f	orces les	s than	375#

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

Wind loads based on MWFRS with additional C&C

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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



04/01/2020

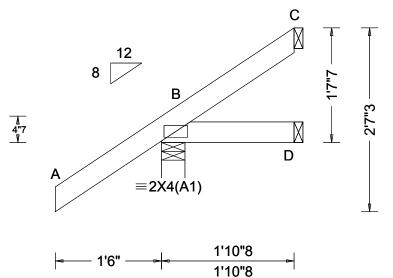
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SEQN: 580562 / **JACK** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T48 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06308 Qty: 3 Truss Label: J1C / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximu
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	, -	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 D HORZ(TL): 0.001 D Creep Factor: 2.0 Max TC CSI: 0.187 Max BC CSI: 0.041 Max Web CSI: 0.000  VIEW Ver: 18.02.01B.0321.08	Gr Loc R+ B 242 D 26 C 15 Wind react B Brg W D Brg W C Brg W Bearing B Members r
Lumbor				

### um Reactions (lbs) **3ravity** Non-Gravity /R /Rh /Rw /U /RL /-/-/195 /42 /63 /-/-/26 /-/22 ctions based on MWFRS Nidth = 4.0Min Req = 1.5 Min Req = -Nidth = 1.5Vidth = 1.5 Min Req = -3 is a rigid surface. not listed have forces less than 375#

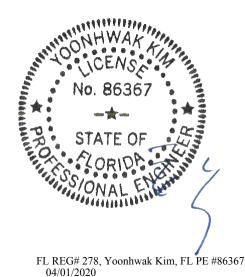
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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



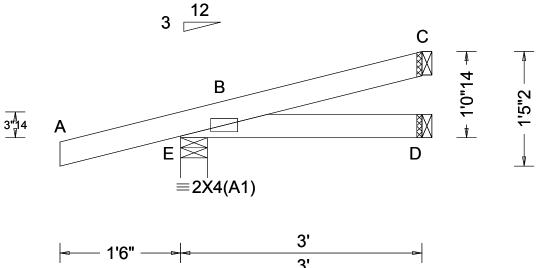
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SEQN: 580594 / **JACK** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T16 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06418 Qty: 4 Truss Label: J02 / YK 04/01/2020



			3		
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)	
TCLL: 20.00	Wind Std: ASCE 7-10	•	PP Deflection in loc L/defl L/#	Gravity Non-Gravity Loc R+ /R- /Rh /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	E 255 /- /- /145 /89 /36	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D	D 46 /- /- /36 /2 /-	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 D	C 59 /- /- /21 /18 /-	
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: 0.185	E Brg Width = 4.0 Min Req = 1.5	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.065	D Brg Width = 1.5 Min Req = -	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	C Brg Width = 1.5 Min Req = -	
opasg	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Bearing E is a rigid surface.	
	GCpi: 0.18	Plate Type(s):		Members not listed have forces less than 375#	
	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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 1-0-14.



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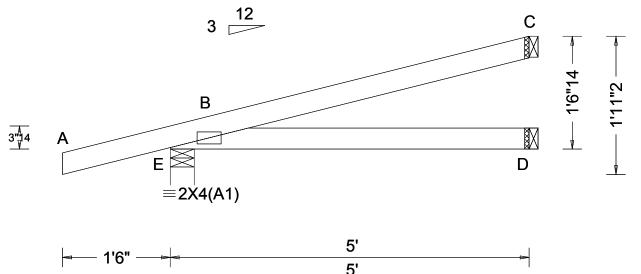
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SEQN: 580596 / **JACK** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T15 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06310 Qty: 4 Truss Label: J03 / YK 04/01/2020



	3	
Loading Criteria (psf)  TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 N	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  Pldg Code: EBC 2017 PES	# Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL  E 323 /- /- /179 /89 /48 - D 86 /- /- /58 /- /- C 121 /- /- /38 /37 /- Wind reactions based on MWFRS  E Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "  BCDL: 5.0 psf MWFRS Parallel Dist: 0 to C&C Dist a: 3.00 ft Loc. from endwall: not in 4. GCpi: 0.18 Wind Duration: 1.60	Rep Fac: Yes Max Web CSI: 0.000	D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing E 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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 1-6-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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SEQN: 580598 / HIP\_ Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T32 / FROM: CDM /Crosby /SPARKS CONST. Qty: 2 DrwNo: 092.20.1616.06513 Truss Label: J04 / YK 04/01/2020 4'2"15 9'5"5 4'2"15 5'2"6 ∥2X4 D 12 Ε 2.12 **≤3X4** 2'4"15 В 3"14 H ∥2X4 GF **≡4X4** =2X4(A1) 4'2"15 5'2"6 4'2"15 9'5"5

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): 0.070 C 999 240	١.
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.136 C 852 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.008 G	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.016 G	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Ľ
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.829	Н
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.443	H
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.712	H
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		li
	GCpi: 0.18	Plate Type(s):		Į,
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	

	▲ M	axim	um Rea	ctions (l	lbs)			
		(	Gravity		No	n-Grav	/ity	
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
)	1	359	/-	/-	/-	/108	/-	
			<i>I</i> -	<i>I</i> -	<i>I</i> -	/90	<i>-</i>	
	Е	152	<i>I</i> -	/-	/33	/-	/-	
	Win	d rea	ctions b	ased on I	MWFRS			
	1	Brg \	Width =	4.9	Min Re	q = 1.5	i	
	F	Brg \	Width =	1.5	Min Re	q = -		
	E	Brg \	Width =	1.5	Min Re	q = -		
	Bea	ring I	is a rigi	d surface	<b>)</b> .			
	Mer	nbers	not list	ed have f	orces less	than 3	375#	
	Max	timur	n Top C	hord Fo	rces Per	Ply (lb:	s)	
	Cho	rds	Tens.Co	omp.		• •	•	

B - C 250 - 1474

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Tens. Comp. Chords 1454 - 243 H-G 1428 - 243

# Maximum Web Forces Per Ply (lbs)

Nebs	Tens.Comp.
C - G	239 - 1396

**Special Loads** -(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 0 plf at 2 plf at 0 plf at TC: From -2.12 to 0.00 to 60 plf at 0.00 2 plf at 9 84 BC: From -2.12 to 4 plf at 0.00 2 plf at 0.00 to BC: From 2 plf at -5 lb Conc. Load at 1.72 118 lb Conc. Load at 4.24 242 lb Conc. Load at 7.07 11 lb Conc. Load at 1.72 TC: TC: BC: 91 lb Conc. Load at 4.24 BC: 172 lb Conc. Load at 7.07 Wind Wind loads and reactions based on MWFRS.

### **Additional Notes** Refer to General Notes for additional information

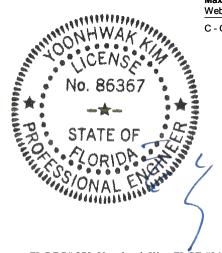
Lumber

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

The overall height of this truss excluding overhang is 2-0-12.

Uplifts based on an elevation at or above 1000 ft.

Provide (3) 16d common 0.162"x3.5", toe-nails at TC. Provide (3) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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SEQN: 580600 / **EJAC** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T18 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06682 Qty: 11 Truss Label: J05 / YK 04/01/2020 C В 3"14 D  $\equiv$ 2X4(A1) - 1<mark>'6"</mark> -

Loading Criteria (psf)   Wind Criteria	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):	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.015 D HORZ(TL): 0.029 D Creep Factor: 2.0	Gravity Non-Gravity  Loc R+ /R- /Rh /Rw /U /RL  E 398 /- /- /218 /95 /61  D 125 /- /- /84 /- /-  C 179 /- /- /54 /55 /-  Wind reactions based on MWFRS  E Brg Width = 4.0 Min Req = 1.5  D Brg Width = 1.5 Min Req = -  C Brg Width = 1.5 Min Req = -  Bearing E is a rigid surface.  Members not listed have forces less than 375#
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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-0-14.



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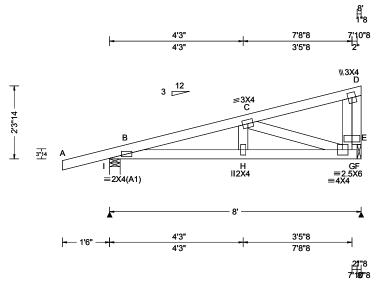
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SEQN: 580609 / MONO Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T24 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06807 Qty: 13 Truss Label: J06 / YK 04/01/2020



Loading Criteria (psf) Wind Crite	ria Snow C	riteria (Pg,Pf	in PSF)	Defl/CSI Criter	ia			<b>▲</b> Ma	ximu	ım Rea	actions (I	bs)		
TCLL: 20.00 Wind Std:	ASCE 7-10 Pg: NA	Ct: NA C	AT: NA	PP Deflection in	n loc l	L/defl	L/#			ravity			on-Gra	- 7
TCDL: 10.00 Speed: 130	mph Pf: NA	С	e: NA	VERT(LL): 0.0	14 H	999	240	Loc	R+	/ R-	/ Rh	/ Rw	/υ	/ RL
BCLL: 0.00 Enclosure:	Lu. IVA	Cs: NA		VERT(CL): 0.0	26 H	999	180	1 4	34	/-	/-	/237	/98	/68
BCDL: 10.00 Risk Catego	, I SHOW D	uration: NA		HORZ(LL): 0.00	04 G	-	-	E 3	05	/-	/-	/157	/64	/-
Des Ld: 40.00 EXP: C Kz				HORZ(TL): 0.0	07 G	-	-	Wind	reac	tions b	ased on I	<b>MWFRS</b>		
NCBCLL: 10.00 Mean Heigh	(:ode /	Misc Criteria	1	Creep Factor: 2	2.0				•	/idth =	-	Min Re		
Soffit: 2.00   TCDL: 5.0 p	l Dida Ca	de: FBC 201	7 RES	Max TC CSI:	0.185				_	/idth =		Min Re	q = 1.5	5
BODE. 3.0	erallel Dist: h/2 to h	2014		Max BC CSI:	0.199				•		e a rigid s			
Spacing: 24.0 " C&C Dist a:	D F	: Yes		Max Web CSI:	0.167						ed have fo			
, ,	. J.00 IL	20(0)/10(0)									Chord Fo	rces Per	Ply (lb	s)
	oi: 0.18 Plate Ty	., .,						Chor	ds T	ens.Co	omp.			
Wind Durati		pe(3).		VIEW Ver: 18.0	2 01 0	0321	nα	B-C		149	- 608			
Willia Dulat	IOII. I.OU WAVE			VILVV VEI. 10.0	2.V ID.	.0321.	.00			•				

### Lumber

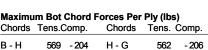
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Rt Bearing Leg: 2x4 SP #2;

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

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-3-14.



### Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs C - G 185 - 537 D-E 440

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FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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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.



-460

SEQN: 586054 / HIPM Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T55 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06995 Qty: 1 Truss Label: J6A / YK 04/01/2020 4'11"12 8'10"8 14'4" 4'11"12 3'10"12 5'5"8 ∥2X4 E =4X6 D ≅2X4 C 3"14 G ≡3X4 =2X4(A1) **∥2.5X6** 14'4" 8'10"8 5'5"8 1'6" 8'10"8 14'4" Loading Criteria (psf) Wind Criteria

Loading Criteria (psi)	Willia 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
Dos I d: 40.00	EXP: C 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
Spacing: 24.0 "	C&C Dist a: 3.00 ft
	Loc. from endwall: not in 9.00 ft
	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

### Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl 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

TE Dellection III Toca	L/UEII	L/#
VERT(LL): 0.053 C	999	240
VERT(CL): 0.105 C	999	180
HORZ(LL): 0.014 F	-	-
HORZ(TL): 0.027 F	-	-
Creep Factor: 2.0		
Max TC CSI: 0.507		
Max BC CSI: 0.711		
Max Web CSI: 0.563		

VIEW Ver: 18.02.01B.0321.08

# ▲ Maximum Reactions (lbs)

	■ IVI	алин	uiii Nea	CUUIIS	(IDS)			
		(	Gravity		N	on-Grav	vity	
0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	_
0	н	687	/-	/-	/366	/134	/74	
		566	/-	/-	/290	/112	/-	
	Win	d rea	ctions b	ased on	MWFRS			
	Н	Brg \	Nidth =	4.0	Min Re	q = 1.5	5	
	F	Brg \	Nidth =	4.0	Min Re	q = 1.5	;	
	Bea	rings	H&Fa	re a rigi	d surface.			
	Men	nbers	not liste	ed have	forces les	s than 3	375#	
	Мах	timur	n Top C	hord F	orces Per	Ply (lb	s)	
	Cho	rds	Tens.Co	mp.	Chords	Tens.	Ćomp.	_
	B - 0	С	441 -	1452	C-D	269	- 942	

### Lumber

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

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

GCpi: 0.18

Wind Duration: 1.60

Wind loads based on MWFRS with additional C&C

Right end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **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. 1388 - 481 881 - 277

# Maximum Web Forces Per Ply (lbs)

webs	Tens.Comp.	Webs	Tens. Comp.				
	214 - 533	D-F	290 - 931				



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

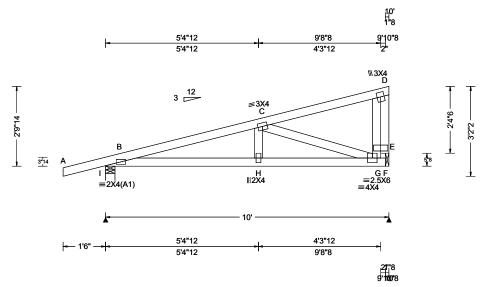
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SEQN: 580560 / MONO Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T26 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06590 Qty: 19 Truss Label: J07 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.022 H 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.044 H 999 180	513
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.006 G	E 388 /- /- /199 /52 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.012 G	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	I Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	•	E Brg Width = 1.5 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.327	Bearings I & E are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.284	Members not listed have forces less than 375#
Spacing, 24.0	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	B - C 170 - 813

### Lumber

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

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

Right end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-9-14.

### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - H 762 - 232 753 - 233

### Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs C - G 215 - 736 D-E 550 - 595



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

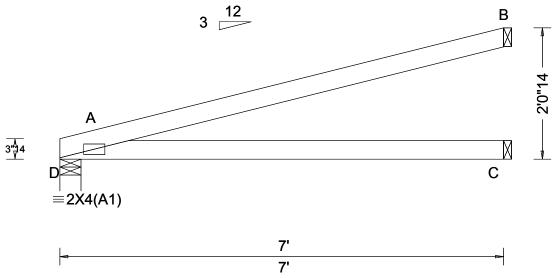
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SEQN: 580611 / **EJAC** Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T33 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06106 Qty: 1 Truss Label: J08 / YK 04/01/2020



	Т	T		1	
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (II	os)
TCLL: 20.00	Wind Std: ASCE 7-10	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	D 288 /- /-	/149 /28 /41
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 C	C 127 /- /-	/86 /- /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.035 C	B 186 /- /-	/56 /41 /-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	/IWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	· •	D Brg Width = 4.0	Min Req = 1.5
1 * * * * * * * * * * * * * * * * * * *	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.508	C Brg Width = 1.5	Min Reg = -
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h			B Brg Width = 1.5	Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearing D is a rigid surface	э.
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Members not listed have for	orces less than 375#
	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.

Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-0-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

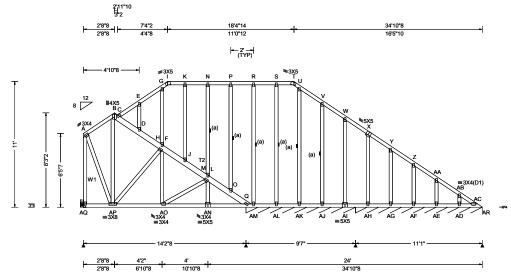
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SEQN: 580793 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T12 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06729 Qty: 1 Truss Label: K01 / YK 04/01/2020



Snow Criteria (Pa Pf in PSE) | Defl/CSI Criteria

Loading Criteria (psi)	Willia Ciliteria	Show Chiteria (Fg,Filli FSF)	Dell/Col Citteria
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): 0.013 K 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.027 K 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.009 W
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.014 V
NCBCLL: 0.00	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: 0.105
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.222
Spacing: 24.0 "	C&C Dist a: 3.49 ft	Rep Fac: Yes	Max Web CSI: 0.414
	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	•	•	

▲ Ma	aximu	ım Rea	ctions	(lbs), or *=	:PLF	
	Gravity Non-Gravity					vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AQ	613	/-	/-	/330	/101	/249
Q*	144	/-	/-	/75	/24	/-
AR*	82	/-	/-	/58	/13	/-
Wind	d reac	tions b	ased on	MWFRS		
AQ	Brg W	/idth =	-	Min Re	q = -	
Q	Brg W	/idth =	115	Min Re	q = -	
AR	Brg V	/idth =	133	Min Re	q = -	
Bear	rings (	Q & Al a	are a rig	id surface		
Men	Members not listed have forces less than 375#					
Max	imum	Top C	hord F	orces Per	Ply (lb	s)
Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;

Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; W1 2x4 SP #2;

Loading Criteria (nef) | Wind Criteria

(a) Continuous lateral restraint equally spaced on

### **Plating Notes**

All plates are 2X4 except as noted.

### Hangers / Ties

(J) Hanger Support Required, by others

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.

Left end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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



H - J	137	- 482	M - O	216	- 739
J-L	152	- 540	0 - Q	248	-806
L - M	192	- 613			

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

Chords	Tens.Comp	p. Chords	Tens.	Comp.
AP-AO	512 - 16	8 AN- Q	647	- 137
AO-AN	647 - 13	38		

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
A -AQ		- 595 115	AP- H	93	- 424

FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

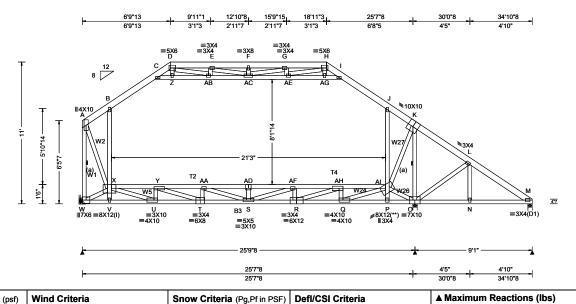
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SEQN: 580693 / ATIC Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T36 / Qty: 4 /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06419 FROM: CDM Page 1 of 2 Truss Label: K02 / YK 04/01/2020



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
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.260 F 999
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.523 F 590
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.048 B -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.097 B -
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: 0.570
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.627
Spacing: 24.0 "	C&C Dist a: 3.49 ft	Rep Fac: Yes	Max Web CSI: 0.921
	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.

### Non-Gravity Gravity fl L/# Loc R+ /Rh /Rw /U 480 360 w 2497 /620 /202 2871 /-/1018 /223 /-412 /270 /58 Wind reactions based on MWFRS Brg Width = Min Reg = Brg Width = 4.0 Min Req = 3.4Brg Width = 4.0 Min Rea = 1.5Bearings O & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) 1 08 Chords Tens.Comp. Chords Tens. Comp.

### Lumber

Top chord: 2x6 SP 2400f-2.0E; T2,T4 2x4 SP #2; Bot chord: 2x4 SP #2; B3 2x4 SP M-31; Webs: 2x4 SP #3; W1 2x4 SP #2; W2,W5,W24,W26, W27 2x4 SP M-31;

### **Bracing**

(a) Continuous lateral restraint equally spaced on member

### **Plating Notes**

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

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

### Hangers / Ties

(J) Hanger Support Required, by others

Attic room loading from 2-3-0 to 23-6-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

### **Purlins**

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

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

### Wind

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

Left end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

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

04/01/2020



A - B	165 - 1423	G-H	850	- 1810
B - C	380 - 1495	H - I	514	- 1097
C - D	487 - 1083	I - J	376	- 1492
D-E	827 - 1798	J - K	194	- 1446
E-F	1008 - 2218	L - M	158	- 484
F-G	1008 - 2218			

/RL

/244

/-

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

Choras	rens.comp.	Chorus	rens.	Comp.
W - V	365 - 2091	S-R	3477	0
V - U	372 - 2146	R-Q	1699	- 26
U - T	1842 - 236	Q-P	36	- 2223
T - S	3558 - 115	P-0	36	- 2176

### Maximum Web Forces Per Ply (lbs)

	vvebs	rens.Comp.	vvebs	rens. Comp.	
	A - W	427 - 3596	S-AF	708 - 55	
	A - X	3031 - 451	AC- G	464 - 131	
	W - X	2352 - 157	AC-AE	711 -605	
	B - X	434 - 249	AD-AF	4 - 3154	
	X - U	3628 - 37	AE-AG	205 - 710	
	X - Y	165 - 747	AE- H	957 - 351	
/	U-Y	25 - 1071	AF- R	18 - 585	
	C - Z	26 - 650	AF-AH	79 - 2351	
	Y - T	1820 - 37	R -AH	1885 - 17	
	Y -AA	9 - 2563	AG- I	214 - 755	
	D -AB	968 - 371	AH- Q	10 - 1093	
	Z -AB	26 - 608	Q -AI	3578 0	
	T -AA	25 - 561	Al- K	2846 - 61	
4	AA-S XX-XD	641 - 75	Al- O	2390 - 235	
Ħ	%X-Ab	4 - 3154	K - O	105 - 3529	
	AB-AC	700 - 584	0-L	177 - 396	_

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

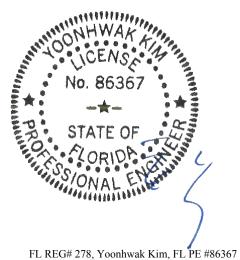
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SEQN: 580693 / ATIC Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T36 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06419 Qty: 4 Page 2 of 2 Truss Label: K02 / YK 04/01/2020

E-AC 467 - 153



04/01/2020

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

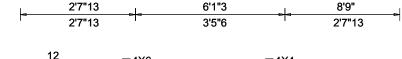
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Refer to distance of the standard plate positions.

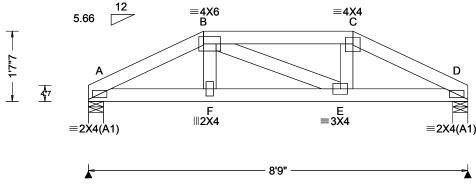
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SEQN: 580570 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T50 / FROM: CDM /Crosby /SPARKS CONST. Qty: 1 DrwNo: 092.20.1616.06199 Truss Label: L01 / YK 04/01/2020



3'5"6

6'1"3



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	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: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 E 999 240 VERT(CL): 0.014 E 999 180 HORZ(LL): 0.003 E HORZ(TL): 0.006 E Creep Factor: 2.0 Max TC CSI: 0.131 Max BC CSI: 0.173	Gravity  Loc R+ /R- /Rh  A 272 /- /- D 272 /- /- Wind reactions based on M A Brg Width = 4.2 D Brg Width = 4.2 Bearings A & D are a rigid Members not listed have for Maximum Top Chord For Chords Tens.Comp.	Non-Gravity / Rw / U / RL  /- /154 /- /- /161 /- //WFRS Min Req = 1.5 Min Req = 1.5 surface. cross less than 375#

2'7"13

### Lumber

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

### **Special Loads**

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) From 31 plf at 0.00 to 3 From 10 plf at 0.00 to -19 lb Conc. Load at 1.66, 7.34 TC: From 31 plf at 10 plf at BC: From 8 75 8 lb Conc. Load at 2.78, 6.22 75 lb Conc. Load at 3.09, 4.50, 5.91 7 lb Conc. Load at 1.66, 7.34 28 lb Conc. Load at 2.78, 6.22 26 lb Conc. Load at 3.09, 4.50, 5.91 BC: BC:

### **Purlins**

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

Wind loads and reactions based on MWFRS. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

Refer to General Notes for additional information The overall height of this truss excluding overhang is 1-7-7. 2'7"13

8'9"

## Maximum Bot Chord Forces Per Ply (lbs)

Chorus	rens.comp.	Chorus	rens. Comp.		
A - F	411 - 224	E-D	416 - 222		
F-F	420 - 226				



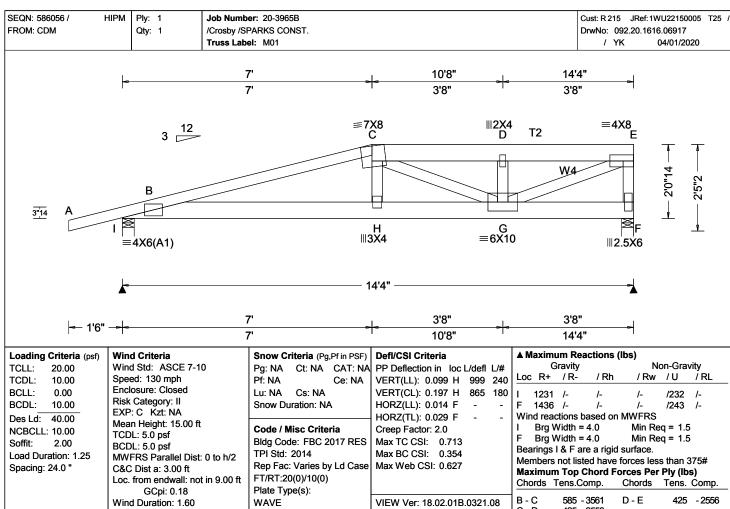
FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

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### Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W4 2x4 SP #2;

### **Special Loads**

-(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 61 plf at -1.50 to 7.00 to 61 plf at 30 plf at TC: From 30 plf at 4 plf at 14 33 BC: From -1.50 to 4 plf at 0.00 20 plf at 20 plf at 0.00 to BC: From 10 plf at 7.03 to 331 lb Conc. Load at 7.03 179 lb Conc. Load at 9.06,11.06,13.06 466 lb Conc. Load at 7.03 TC: TC: 125 lb Conc. Load at 9.06,11.06,13.06

### **Purlins**

In lieu of structural panels use purlins to brace all flat TC  $\textcircled{\scriptsize 0}$  24" oc.

Wind loads and reactions based on MWFRS. Right end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

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

Gravity				No	Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
lı .	1231	/-	/-	/-	/232	/-		
F	1436	/-	/-	/-	/243	/-		
Wind reactions based on MWFRS								
I Brg Width = 4.0			Min Req = 1.5					
F	Brg V	/idth = 4	1.0	Min Req = 1.5				
Bea	rings l	& F are	a rigid	surface.				
Mer	nbers	not liste	d have	forces less	than 3	375#		
Maximum Top Chord Forces Per Ply (lbs)								
Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.		
	_							

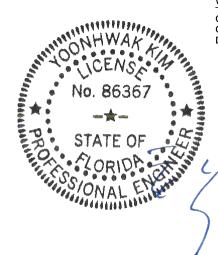
425 - 2558

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

Chords Tens.Comp. Tens. Comp. 3427 - 554 3481 - 559

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - H	618 - 55	G-E	2779 - 462
C - G	147 - 1015	E-F	245 - 1312
D - G	150 - 440		



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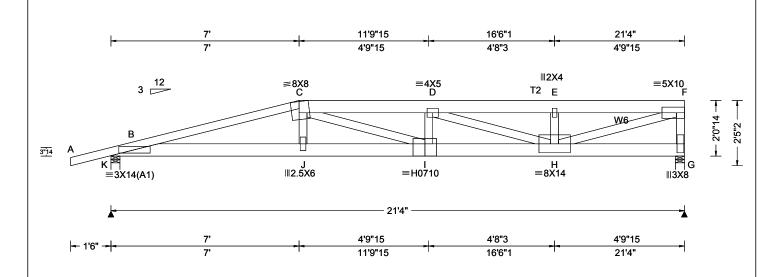
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal 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.

SEQN: 580614 / HIPM Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T20 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06885 Qty: 1 Truss Label: M03 / YK 04/01/2020



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): 0.262 I 971 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.521 I 487 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.041 G
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.082 G
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: 0.527
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.507
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.964
' •	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, HS	VIEW Ver: 18.02.01B.0321.08
	•	A 1 11/1 1 1 1	

### Lumber

Top chord: 2x4 SP M-31; T2 2x6 SP 2400f-2.0E; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W6 2x4 SP M-31;

### **Special Loads**

-(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) 61 plf at 30 plf at 4 plf at TC: From -1.50 to 7.00 to 61 plf at 30 plf at TC: From 21.33 BC: From -1.50 to 4 plf at 0.00 20 plf at 0.00 to 20 plf at BC: From BC: From 10 plf at 7.03 to 10 plf at 21.33 331 lb Conc. Load at 7.03 179 lb Conc. Load at 9.06,11.06,13.06,15.06 TC: TC: 17.06.19.06 186 lb Conc. Load at 20.94 BC: 466 lb Conc. Load at 7.03 BC: 125 lb Conc. Load at 9.06,11.06,13.06,15.06

17.06.19.06

BC: 127 lb Conc. Load at 20.94

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

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

Uplifts based on an elevation at or above 1000 ft.

Refer to General Notes for additional information

### **Additional Notes**

The overall height of this truss excluding overhang is 2-0-14

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

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

Chords

6336 - 1054 6939 - 1198 J - I 6393 - 1058

Non-Gravity

/354 /-

/376

Min Reg = 1.6

Min Req = 1.8

/RL

/-

Tens. Comp.

863 - 4996

863 - 4996

/Rw / U

### Maximum Web Forces Per Ply (lbs)

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS

Bearings K & G are a rigid surface.

1099 - 6553

1186 - 6964

Brg Width = 4.0

Brg Width = 4.0

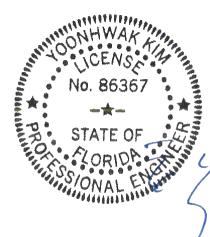
Chords Tens.Comp.

Loc R+

1942 /-

2233 /-

webs	rens.comp.	vvebs	rens. Comp.
C-J	654 - 52	E-H	205 - 609
C - I	603 - 134	H - F	5244 - 906
D - H	355 - 2062	F-G	379 - 2005



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6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 580617 / HIPM Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T21 / FROM: CDM /Crosby /SPARKS CONST. DrwNo: 092.20.1616.06651 Qty: 1 Truss Label: M04 / YK 04/01/2020 8'10"8 15'1"4 21'4" 8'10"8 6'2"12 6'2"12 ∥2X4 D ≡4X10 C =4X6 F T2 2'10"12 3"14 Ш H ≡5X5 G ≡4X10

<b>_</b>		21'4"	<u> </u>
<del> </del> 1'6" <del> -</del>	8'10"8	6'2"12	6'2"12
	8'10"8	15'1"4	21'4"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (II	os)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any	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)		Gravity Loc R+ / R- / Rh  I 967 /- /- F 850 /- /- Wind reactions based on M I Brg Width = 4.0 F Brg Width = 4.0 Bearings I & F are a rigid s Members not listed have for Maximum Top Chord For	Non-Gravity / Rw / U / RL  /508 /187 /74 /434 /165 /- //WFRS Min Req = 1.5 Min Req = 1.5 surface. corces less than 375#
	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 18.02.01B.0321.08	B-C 965-2208 [	D-E 723 -1760

 $\equiv$ 3X4(A1)

Top chord: 2x4 SP M-31; T2 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

Right end vertical not exposed to wind pressure. Uplifts based on an elevation at or above 1000 ft.

### **Additional Notes**

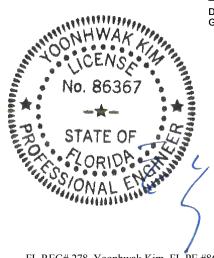
Refer to General Notes for additional information The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 2093 - 991 2105 - 991

∥2.5X6

# Maximum Web Forces Per Ply (lbs)

vebs	rens.comp.	vvebs	rens. Comp.	
-	206 - 392 1844 - 758	E-F	343 - 790	



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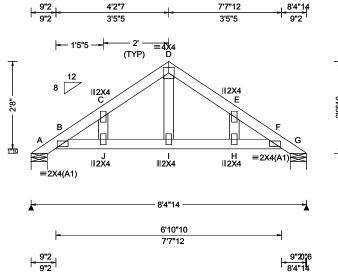
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SEQN: 586281 COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T31 /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1607.37320 Qty: 1 Truss Label: P01 / YK 04/01/2020



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): 0.015 J 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.025 J 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.009 C	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.016 C	
NCBCLL: 0.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	
Soffit: 2.00	TCDL: 5.0 psf BCDL: 1.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.161	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.172	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.045	
	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	

▲ N	laxim	um Rea	ctions (I	bs)		
	G	avity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	284	/-	/-	/212	/83	/76
G	284	/-	/-	/212	/83	/-
Wir	nd read	ctions b	ased on I	MWFRS		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.5	5
G Brg Width = 5.9 Min Req = 1.5						
Bea	arings	A & G a	re a rigid	surface.	•	
Mei	mbers	not liste	ed have f	orces less	s than	375#

### Lumber

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

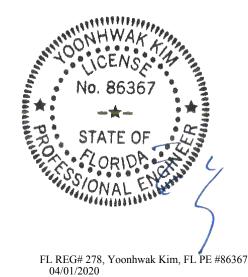
### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 2-9-10.



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

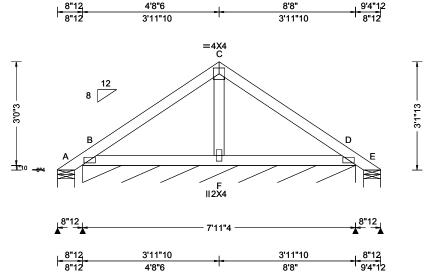
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Refer to distance of the standard plate positions.



SEQN: 586283 COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T14 /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1607.54440 Qty: 4 Truss Label: P02 / YK 04/01/2020



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): 0.001 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 F
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 F
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 1.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.171
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.092
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.023
	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

▲ M	axim	um Rea	ctions (I	bs), or *=	PLF	
	G	Gravity		No	on-Grav	vity −
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	-	/-82	/-	/74	/105	/83
B*	97	/-	/-	/64	/34	/-
Е	-	/-82	/-	/42	/59	/-
Win	d read	ctions ba	ased on I	<b>MWFRS</b>		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.5	5
В		Vidth =		Min Re	q = -	
Е	Brg V	Vidth =	5.9	Min Re	q = 1.5	;
				gid surfa	ce.	
Mer	nbers	not liste	ed have fo	orces les	s than 3	375#
-						

### Lumber

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

### **Plating Notes**

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 3-1-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

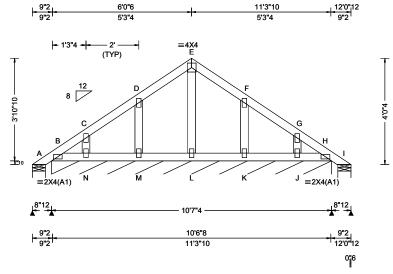
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SEQN: 580680 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T22 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06511 Qty: 2 Truss Label: P03 / YK 04/01/2020



Coading Criteria (psf)   TCLL: 20.00   TCDL: 10.00   BCLL: 0.00   BCDL: 10.00   Des Ld: 40.00	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	Defl/CSI Criteria         PP Deflection in loc L/defl L/#         VERT(LL): 0.000 E 999 240         VERT(CL): 0.001 E 999 180         HORZ(LL): 0.000 J         HORZ(TL): 0.000 J
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 26.87 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	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: 0.053  Max BC CSI: 0.042  Max Web CSI: 0.030  VIEW Ver: 18.02.01B.0321.08

۸N	laxim	um Rea	ctions (I	bs), or *=	:PLF	
	G	ravity		No	on-Gra	vity
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	35	/-	/-	/12	/-	/-
В*	113	/-	/-	/46	/-	/-
ı	35	/-	/-	/12	/-	/-
Wii	nd read	ctions b	ased on I	<b>MWFRS</b>		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.	5
В	Brg V	Vidth =	127	Min Re	q = -	
I Brg Width = 5.9 Min Reg = 1.5						
Bea	arings .	A, B, &	I are a rig	gid surfac	e.	
Ме	mbers	not liste	ed have fo	orces les	s than	375#

### Lumber

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

### **Plating Notes**

All plates are 2X4 except as noted.

### Loading

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

### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 4-0-4



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

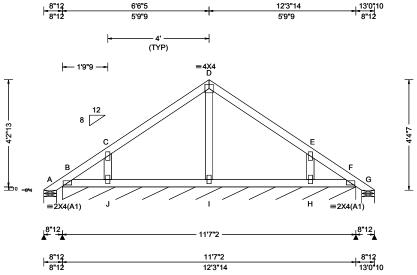
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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SEQN: 580644 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T44 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.06448 Qty: 17 Truss Label: P04 / YK 04/01/2020



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): 0.001 D 999 240	!
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 D 999 180	L
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E	H
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 E	ŀ
NCBCLL: 10.00	Mean Height: 26.87 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: 0.209	1
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.118	Ľ
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.050	Ľ
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		li
	GCpi: 0.18	Plate Type(s):		ͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺͺ
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	l
Lumber				

▲ Maximum Reactions (lbs), or *=PLF						
	G	ravity	•	, No	on-Gra	vity
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	50	/-	<i>I-</i>	/81	/60	/130
В*	112	/-	/-	/45	/12	/-
G	50	<i>I</i> -	/-	/22	/11	/-
Wi	nd read	ctions b	ased on I	<b>MWFRS</b>		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.5	5
В	Brg V	Vidth =	139	Min Re	q = -	
G	Brg V	Vidth =	5.9	Min Re	q = 1.4	5
Bearings A, B, & G are a rigid surface.						
Ме	mbers	not list	ed have f	orces les	s than	375#

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

### **Plating Notes**

All plates are 2X4 except as noted.

### Loading

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

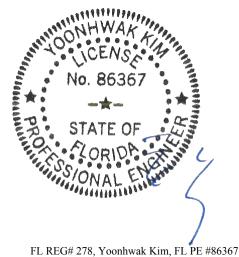
### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 4-4-7



04/01/2020

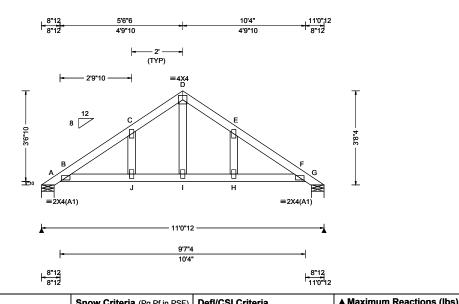
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SEQN: 580795 / GABL Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T37 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.05902 Qty: 1 Truss Label: P05 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs	•
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.038 J 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.065 J 999 180	A 358 /- /-	/264 /110 /98
1 BCDL. 10.00 1	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 C	G 358 /- /-	/264 /110 /-
Dec   d   40 00	EXP: C Kzt: NA		HORZ(TL): 0.040 C	Wind reactions based on M\	NFRS
NCBCH - 0.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	A Brg Width = 5.9	Min Req = 1.5
0.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.344		Min Req = 1.5
1.77 (2	BCDL: 1.2 psf MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.309	Bearings A & G are a rigid s	
1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Rep Fac: Yes	Max Web CSI: 0.050	Members not listed have for	
1 ' ' ' ' ' '	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forc	
	Loc. from endwall: Any	, , , ,		Chords Tens.Comp. Ch	nords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		D 0 470 404 D	F 040 400
\	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		-E 240 -409 -F 179 -424

### Lumber

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

### **Plating Notes**

All plates are 2X4 except as noted.

### Wind

Wind loads based on MWFRS with additional C&C member design. Uplifts based on an elevation at or above 1000 ft.

### **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 3-8-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367 04/01/2020

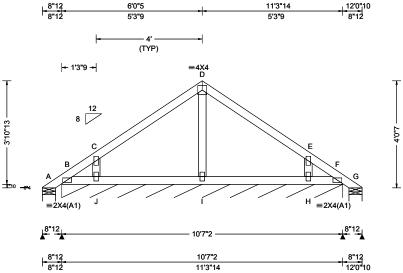
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SEQN: 580674 / COMN Ply: 1 Job Number: 20-3965B Cust: R 215 JRef: 1WU22150005 T34 / /Crosby /SPARKS CONST. FROM: CDM DrwNo: 092.20.1616.05950 Qty: 4 Truss Label: P06 / YK 04/01/2020



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	۱,
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): 0.001 D 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 D 999 180	L
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 E	l
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 H	(
NCBCLL: 10.00	Mean Height: 16.70 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: 0.209	Ľ
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.117	ľ
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.056	lì
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		li
	GCpi: 0.18	Plate Type(s):		╽.
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumber				•

▲ N	laxim	um Rea	ctions (I	bs), or *=	:PLF	
	G	avity		No	on-Gra	vity
Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Α	45	<i>I</i> -	/-	/71	/51	/111
В*	110	/-	/-	/46	/7	/-
G	46	/-	/-	/20	/6	/-
Wir	nd read	ctions b	ased on I	<b>MWFRS</b>		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.5	5
В	Brg V	Vidth =	127	Min Re	q = -	
G		Vidth =		Min Re	q = 1.5	5
Bearings A, B, & G are a rigid surface.						
Mei	mbers	not liste	ed have fo	orces les	s than	375#

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

### **Plating Notes**

All plates are 2X4 except as noted.

### Loading

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

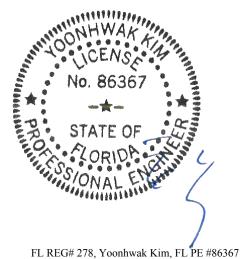
### Wind

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

Uplifts based on an elevation at or above 1000 ft.

### **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 4-0-7.



04/01/2020

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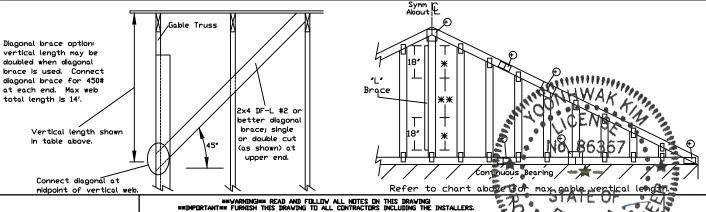
### Gable Stud Reinforcement Detail

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

					⊔r	100 mph	wind Spee	rd, 15' Mea	n Height, F	artially Er	nclosed, Ex	kposure D,	Kzt = 1.00	)	_
		2x4 Vertica	Brace	No	(1) 1×4 "L	" Brace *	(1) 2×4 *L	." Brace *	(2) 2×4 *L	" Brace **	(1) 2×6 <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 1			#1 / #2	4′ 3″	7′ 3″	7' 7"	8′ 7″	8′ 11″	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″	
II Y	ĮΨ	HF	Stud	4′ 1″	6′ 7″	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″	
>		1 11	Standard	4′ 1″	5′ 8 <b>″</b>	6′ 0 <b>″</b>	7′ 7″	8′ 1 <b>″</b>	10′ 1″	10′ 6 <b>″</b>	11' 10"	12′ 8 <b>″</b>	14′ 0″	14′ 0″	
به			#1	4′ 6″	7′ 4″	7′ 8″	8′ 8″	9′ 0″	10′ 4″	10′ 9″	13′ 8″	14′ 0″	14′ 0″	14′ 0″	
		SP	#2	4′ 3″	7′ 3″	7′ 7″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	
	4		#3	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″	
g	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″	
			Standard	4′ 0″	5′ 3″	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″	
<u>.</u> U		SPF	#1 / #2	4′ 11 <b>″</b>	8′ 4″	8′ 8 <b>″</b>	9′ 10 <b>″</b>	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
+>	l . <del>.</del>	1	#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″	
_	l U	HF	Stud	4′ 8″	8′ 1 <b>″</b>	8′ 6″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
Πā	lō	1 11	Standard	4′ 8″	6′ 11 <b>″</b>	7′ 5 <b>″</b>	9′ 3″	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
			#1	5′ 1 <b>″</b>	8′ 5 <b>″</b>	8′ 9 <b>″</b>	9′ 11 <b>″</b>	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″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
	9	I	#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	.
W	1	DFL	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
Π≍			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″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	L
_d	1	1	#3	5′ 1″	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
U U	Ų	HF	Stud	5′ 1″	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
	lo	<u> </u>	Standard	5′ 1″	8′ 0″	8′ 6″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
$   \times  $	_		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
		SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
M Q	N	ושכו	#3	5′ 3″	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
—	-	DFL	Stud	5′ 3″	8′ 5 <b>″</b>	9′ 0″	10′ 9″	11′ 2″	12' 10"	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	
			Standard	5′ 1 <b>″</b>	7′ 5 <b>′</b>	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3 <b>″</b>	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.

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.

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.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.lccsafe.org



MAK, TOT, LD, 60 PSF

24.0"

MAX. SPACING

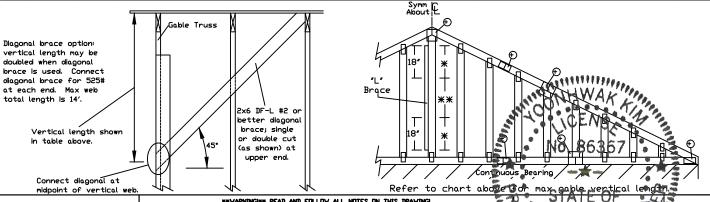
### Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Dr: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D. Kzt = 1.00

					ur	i iuu mpn	wind spee	a, 30 Mear	n Height, P	artially Er	iclosed, Ex	posure D,	KZT = 1.00	<u> </u>	
		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 *	*
	1	Species	Grade		Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
수			#1 / #2	4′ 1″	6′ 11 <b>″</b>	7′ 2″	8′ 2 <b>″</b>	8′ 6 <b>″</b>	9′ 9″	10′ 2″	12′ 10 <b>″</b>	13′ 4″	14′ 0″	14′ 0″	1
	1	SPF	#3	3′ 10 <b>″</b>	6′ 2″	6′ 7″	8′ 1″	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″	]
D	Ų	HF	Stud	3′ 10″	6′ 2 <b>″</b>	6′ 6″	8′ 1 <b>″</b>	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″	]
ļ		1 11	Standard	3′ 10 <b>″</b>	5′ 3 <b>″</b>	5′ 7 <b>″</b>	7′ 0″	7′ 6″	9′ 6″	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″	1
به			#1	4′ 2″	7′ 0″	7′ 3″	8′ 3 <b>″</b>	8′ 7 <b>″</b>	9′ 10″	10′ 3″	13′ 0 <b>″</b>	13′ 6″	14′ 0″	14′ 0″	]
$\square$		I SP	#2	4′ 1″	6′ 11″	7′ 2″	8′ 2″	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	1
	4		#3	4′ 0″	5′ 7″	5′ 11″	7′ 5″	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″	╛
		IDFLI	Stud	4' 0"	5′ 7 <b>″</b>	5′ 11″	7′ 5″	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5 <b>″</b>	14′ 0″	14′ 0″	╛
			Standard	3′ 9″	4′ 11″	5′ 13 <b>″</b>	6′ 6″	7′ 0″	8′ 10 <b>″</b>	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″	╛
<u>U</u> .U		SPF	#1 / #2	4′ 8″	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	╛
1		2FF	#3	4′ 5″	7′ 6″	8′ 3″	9′ 3″	9′ 7″	11' 0"	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	╛
	o U	HF	Stud	4′ 5″	7′ 6″	8′ 0 <b>″</b>	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	╛
ا ق	ΙŌ	1 11	Standard	4′ 5″	6′ 5 <b>″</b>	6′ 10″	8′ 7″	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	┙
	_		#1	4′ 10 <b>″</b>	8′ 0 <b>″</b>	8′ 4″	9′ 6″	9′ 10″	11′ 3″	11′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	╛
/		SP	#2	4′ 8″	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	╛
	9		#3	4′ 7″	6′ 10 <b>″</b>	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	┨
W	<b> </b>	DFL	Stud	4′ 7″	6′ 10″	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	1
$\parallel$			Standard	4′ 5″	6′ 0 <b>″</b>	6′ 5 <b>″</b>	8′ 0 <b>″</b>	8′ 7 <b>″</b>	10′ 10″	11′ 6″	12′ 7″	13′ 15″	14′ 0″	14′ 0″	┨
abl		SPF	#1 / #2	5′ 2″	8′ 9 <b>″</b>	9′ 1″	10′ 4″	10′ 9″	11′ 2″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
1.9	l . <del>.</del>	ا ادا	#3	4′ 10″	8′ 7 <b>″</b>	8′ 11″	10′ 2″	10′ 7″	12′ 2″	12′ 8 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
0	Ų	l HF	Stud	4′ 10″	8′ 7″	8′ 11″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
	Ιo	· ''	Standard	4′ 10″	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
X	_		#1	5′ 4″	8′ 10 <b>″</b>	9′ 2″	10′ 5 <b>″</b>	10′ 10″	12′ 5″	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
ll d		SP	#2	5′ 2″	8′ 9″	9′ 1″	10′ 4″	10′ 9″	12′ 3″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
Μ Q	N		#3	5′ 0″	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
		DFL	Stud	5′ 0″	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″	4
			Standard	4′ 10″	6′ 11″	7′ 4″	9′ 3″	9′ 10″	12′ 2″	12′ 8 <b>″</b>	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 1×4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

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

Provide uplift connections for 100 plf over continuous bearing (5 psf TC Dead Load).

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

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

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

Gable Vertical Plate	e Sizes
Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4
+ Refer to common truss peak, splice, and heel pl	

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

MAX. SPACING

ASCE7-10-GAB14030 IREF DATE 10/01/14 DRWG A14030ENC101014 MAK, TOT, LD, 60 PSF 24.0"

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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.lccsafe.org

# CLR Reinforcing Member Substitution

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

### Notes:

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

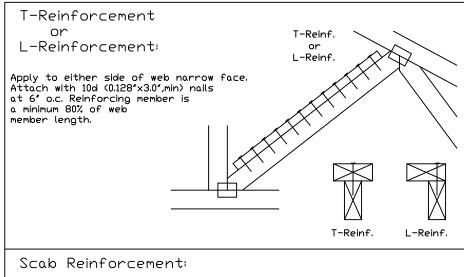
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

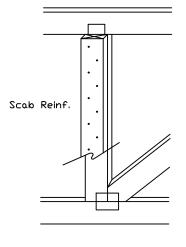
Web Member	Specified CLR	Alternative Reir	
Size	Restraint	T- or L- Reinf.	
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4( <b>*</b> )
2×8	1 row	2×6	1-2×8
2×8	2 rows	2×6	2-2×6( <b>*</b> )

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.



REF

PSF PSF PSF TDT. LD. PSF

D√R. FAC.

**SPACING** 

DATE 01/02/19 DRWG BRCLBSUB0119

CLR Subst.

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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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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.lccsafe.org

# NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

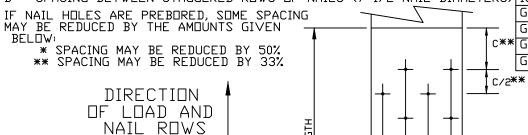
BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL

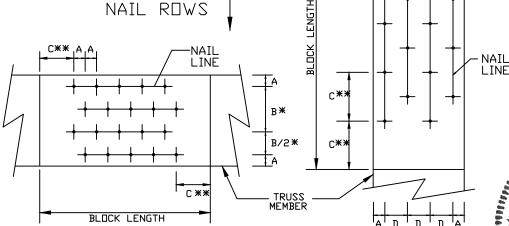
### LOAD PERPENDICULAR TO GRAIN

- A EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C END DISTANCE (15 NAIL DIAMETERS)

### LOAD PARALLEL TO GRAIN

- A EDGE DISTANCE (6 NAIL DIAMETERS)
- C SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)
- D SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS





LOAD APPLIED PERPENDICULAR TO GRAIN

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LOAD APPLIED PARALLEL TO GRAIN

Never to arawings 1808-2 for standard plate positions.

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### MINIMUM NAIL SPACING DISTANCES

	DIS	TANCES		
NAIL TYPE	Α	B <b>*</b>	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8″
10d BOX (0.128"X 3.",MIN)	7/8"	1 5/8"	້~	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	<b>້</b>	1"
16d B□X (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4.",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	້~	1"
10d C□MM□N (0.148"X 3.",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
3) 16d COMMON (0.162"X 3.5",MIN)	1'	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	۵ <b>"</b>	1"
(* GUN (0.120"X 3.",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3.",MIN)	7/8"	1 5/8"	2"	1"

REF NAIL SPACE DATE 10/01/14 DRWG CNNAILSP1014

# 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

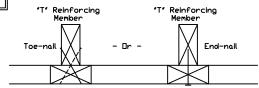
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015

\$18015ENC100118, \$20015ENC100118, \$20015E\( \overline{0}\)100118, \$20015PE\( \overline{0}\)100118

\$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$16060ENC100118 \$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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onhwak Kim FL PE #86367

REF LET-IN VERT DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY MAX. SPACING 24.0"

For more information see this job's general notes page and these web sites 1,000 ALPINE: www.alpineitw.com, TPI: www.tpinstorg, SBCA: www.sbcindustry.org, ICC: www.tpistorg.78



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing

Member

Gable

Truss

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

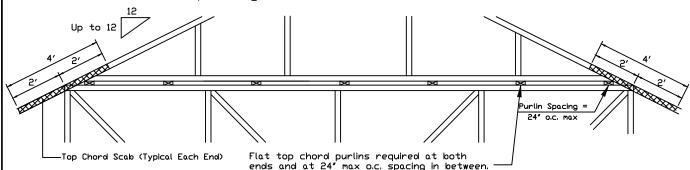
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

# Detail A: Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120'x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

# Detail B: Purlin Spacing > 24" o.c.

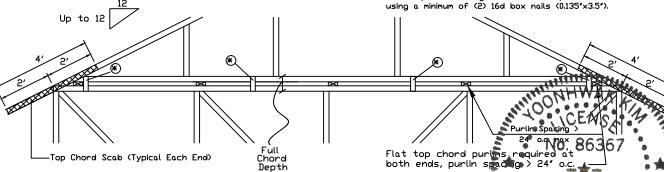
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Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nalls (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord



Note: If purlins or sheathing are not specified on the flat top of the bose truss, purlins must be installed at 24" o.c. max. and use Detail A.

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Unless noted otherwise, top chord shall have properly attached structural sheathing and botton chord shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the John Detalls, unless noted otherwise.

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

Alpine, a division of ITV Building Components from the control of the standard plate the drawings 160A-Z for standard plate positions.

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

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

### APA Rated Gusset

8'x8'x7/16' (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113'x2') nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

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

### 28PB Wave Piggyback Plate

Ine 28PB wave piggyback plate to each face 8 % o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120 %1.375 nails per face per ply.
Piggyback plates may be staggered 4' o.c. front to back faces.

> REF PIGGYBACK DATE 10/01/14

DRWG PB160101014

SPACING. 24.0\*