

This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

ALPINE AN ITW COMPANY

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

COA #0 278 07/13/2021



Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B53392a
Job Description: Busscher SPec	
Address: Ivy Glen, Lake City, FL	

Job Engineering Criteria:					
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.02.00A				
	JRef #: 1X718570008				
Wind Standard: ASCE 7-16 Wind Speed (mph): 140	Design Loading (psf): 37.00				
Building Type: Closed					

This package contains general notes pages, 35 truss drawing(s) and 8 detail(s).

Item	Drawing Number	Truss
1	194.21.1118.12770	CJ1
3	194.21.1118.19010	CJ4
5	194.21.1118.29753	CJ6
7	194.21.1118.36840	EJ4
9	194.21.1118.47063	EJ8A
11	194.21.1119.05123	GE1
13	194.21.1119.21200	GE3
15	194.21.1119.28047	H12A
17	194.21.1119.36063	H14A
19	194.21.1119.43107	H16A
21	194.21.1119.49967	HG3A
23	194.21.1120.08670	HJ11
25	194.21.1120.17410	HJ5
27	194.21.1120.55093	MH1
29	194.21.1121.13110	S1
31	194.21.1121.21550	T-2
33	194.21.1121.30837	T-4
35	194.21.1121.40893	TG-1
37	PB180160118	
39	A14015ENC160118	
41	A14030ENC160118	
43	BRCLBSUB0119	

Item	Drawing Number	Truss
2	194.21.1118.16393	CJ2
4	194.21.1118.24480	CJ4A
6	194.21.1118.32817	CJ6A
8	194.21.1118.39330	EJ8
10	194.21.1118.53300	EJG8
12	194.21.1119.12407	GE2
14	194.21.1119.25190	H10A
16	194.21.1119.31907	H12B
18	194.21.1119.40260	H14B
20	194.21.1119.47590	H16B
22	194.21.1119.55117	HG8A
24	194.21.1120.14820	HJ11A
26	194.21.1120.20847	M1
28	194.21.1121.09010	MHG1
30	194.21.1121.16970	T-1
32	194.21.1121.24293	T-3
34	194.21.1121.34250	T-5
36	PB160160118	
38	REPCHRD1014	
40	GBLLETIN0118	
42	CNNAILSP1014	

## **General Notes**

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

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

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

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

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

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

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

### Permanent Lateral Restraint and Bracing:

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

### **Connector Plate Information:**

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

### Fire Retardant Treated Lumber:

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

## **General Notes** (continued)

## **Key to Terms:**

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

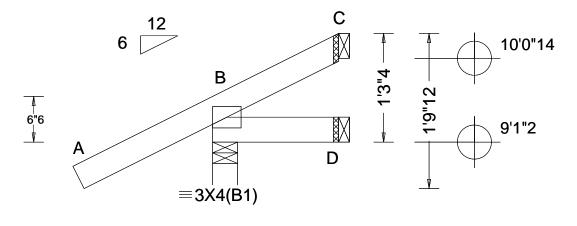
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

### References:

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

SEQN: 61827 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T23 FROM: RNB Qty: 4 DrwNo: 194.21.1118.12770 Busscher SPec Truss Label: CJ1 / DF 07/13/2021





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C
Des Ld: 37.00 NCBCLL: 10.00	EXP: B Kzt: NA Mean Height: 15.00 ft	Building Code:	HORZ(TL): 0.001 C Creep Factor: 2.0
Soffit: 2.00 Load Duration: 1.25	TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2	FBC 7th Ed. 2020 Res. TPI Std: 2014	Max TC CSI: 0.173 Max BC CSI: 0.023
Spacing: 24.0 "	C&C Dist a: 3.00 ft Loc. from endwall: Any	Rep Fac: Yes FT/RT:20(0)/0(0)	Max Web CSI: 0.000
	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 20.02.00A.1020.20

▲ Maxim	um Rea	ctions (I	bs)				
G	ravity	No	on-Gra	vity			
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
B 212	/-	/-	/141	/39	/38		
D 24	/-	/-	/12	/-	/-		
C -	/-10	/-	/23	/24	/-		
Wind read	ctions b	ased on I	MWFRS				
B Brg V	Vidth =	3.5	Min Re	q = 1.5	5		
D Brg V	Vidth =	1.5	Min Re	q = -			
C Brg V	Vidth =	1.5	Min Re				
Bearing B Fcperp = 425psi.							
Members				s than	375#		

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

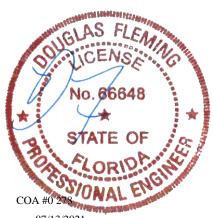
### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: End(ft) 1.47 Chord Spacing(in oc) Start(ft) 16 0.17 1.47 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

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

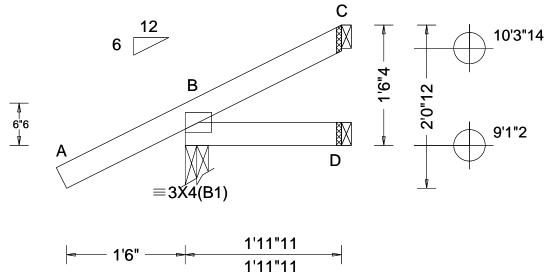
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 61805 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T28 FROM: RNB DrwNo: 194.21.1118.16393 Qty: 4 Busscher SPec Truss Label: CJ2 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 C
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.173
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.023
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
' '	Loc. from endwall: Any	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber			<u>,</u>

▲ M	laxim	um Rea	ctions (I	bs)		
	G	avity	No	on-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	215	/-	/-	/141	/30	/45
D	34	/-	/-	/17	/-	/-
С	17	/-	/-	/20	/14	/-
Win	nd read	ctions b	ased on I	<b>MWFRS</b>		
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	5
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bearing B Fcperp = 425psi.						
Mer	mbers	not list	ed have f	orces les	s than	375#

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

### **Plating Notes**

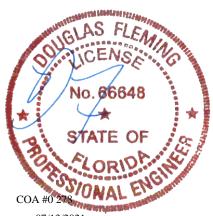
Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: End(ft) 1.97 Spacing(in oc)
47 Chord Start(ft)

22 0.17 1.97 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

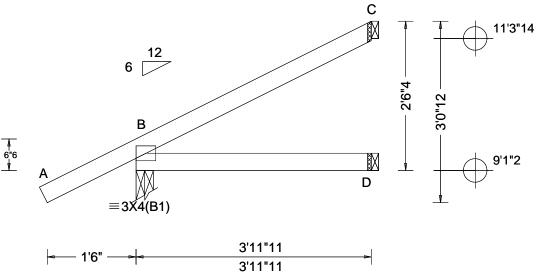
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61807 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T27 FROM: RNB DrwNo: 194.21.1118.19010 Qty: 2 Busscher SPec Truss Label: CJ4 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.002 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.220
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.111
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
' '	Loc. from endwall: Any	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber			

▲ M	laxim	um Rea	ctions (I	bs)		
	G	avity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	269	/-	/-	/168	/23	/73
D	73	/-	/-	/38	/-	/-
С	88	/-	/-	/43	/42	/-
Win	d read	ctions b	ased on I	MWFRS		
В	Brg V	Vidth =	3.5	Min Re	q = 1.5	5
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	g = -	
Bearing B Fcperp = 425psi.						
	•			orces les	s than	375#

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

### **Plating Notes**

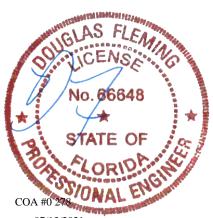
Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: End(ft) 3.97 Spacing(in oc) 74 Chord Start(ft) 46 3.97

0.17 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

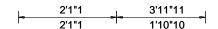
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

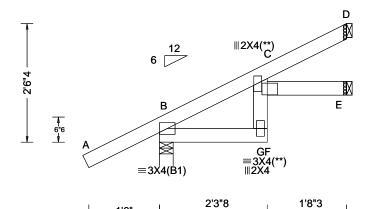
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

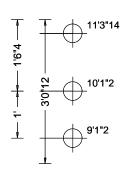


SEQN: 61813 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T35 FROM: RNB DrwNo: 194.21.1118.24480 Qty: 2 Busscher SPec Truss Label: CJ4A / DF 07/13/2021





2'3"8



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 7.00	Wind Std: ASCE 7-16 Speed: 140 mph	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.016 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.016 F 999 360 VERT(CL): 0.029 F 999 240
BCDL: 10.00	Risk Category: II EXP: B Kzt: NA	Snow Duration: NA	HORZ(LL): 0.009 C -HORZ(TL): 0.016 C
Des Ld: 37.00 NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00 Load Duration: 1.25	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res. TPI Std: 2014	Max TC CSI: 0.138 Max BC CSI: 0.034
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.064
	Loc. from endwall: not in 4.50 ft GCpi: 0.18	FT/RT:20(0)/0(0) Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

	▲ Maximum Reactions (lbs)									
		(	avity		Non-Gravity					
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
)	В	269	/-	/-	/168	/23	/73			
	Ε	41	/-	/-	/22	/-	/-			
	D	100	/-	/-	/58	/30	/-			
	Win	d rea	ctions b	ased on I	MWFRS					
	В	Brg V	Vidth =	3.5	Min Re	Min Reg = 1.5				
	Е	Brg V	Vidth =	1.5	Min Re	q = -				
	D		Vidth =		Min Re	q = -				
	Bearing B Fcperp = 425psi.									
		_		ed have f		s than	375#			
_										

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally bra

laterany	Diade diloida da	ioliows.	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	74	-1.57	3.97
BC	25	0.17	2.29
BC	20	2.29	3.97

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.



3'11"11

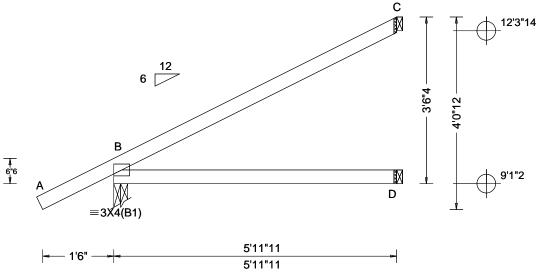
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61809 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T26 FROM: RNB Qty: 2 DrwNo: 194.21.1118.29753 Busscher SPec Truss Label: CJ6 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 D
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.010 D
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.376
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.277
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
Wind Duration: 1.60		WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber	•	•	<u> </u>

/ Rh /- /-	/ Rw /206	n-Grav / U /21	/ity / RL /100
/-	/206		
•		/21	/100
/-			, , , , ,
	/58	/-	/-
/-	/75	/65	/-
ed on M	WFRS		
5	Min Re	q = 1.5	
5	Min Re	g = -	
5	Min Re	g = -	
425psi.		•	
	ces less	than 3	75#
	5 5 5 : 425psi.	5 Min Re 5 Min Re 425psi.	5 Min Req = 1.5 5 Min Req = - 5 Min Req = -

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Spacing(in oc) 75 End(ft) 5.97 Start(ft) Chord 5.97

70 0.17 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



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

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

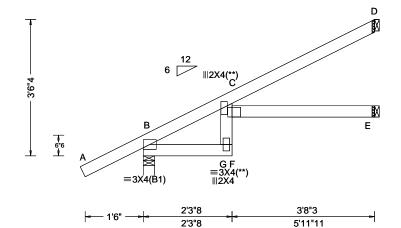
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

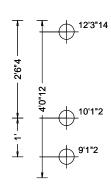
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 61815 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T34 FROM: RNB DrwNo: 194.21.1118.32817 Qty: 2 Busscher SPec Truss Label: CJ6A / DF 07/13/2021







Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	1
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.089 F 795 360 VERT(CL): 0.161 F 440 240 HORZ(LL): 0.051 CHORZ(TL): 0.092 C Creep Factor: 2.0 Max TC CSI: 0.467 Max BC CSI: 0.147 Max Web CSI: 0.187  VIEW Ver: 20.02.00A.1020.20	
Lumban				

▲ Max	imum	Reactions	(lbs)		
	Grav	ity	No	on-Gra	vity
Loc F	R+ / F	R- / Rh	/ Rw	/ U	/ RL
В 33	37 /-	/-	/206	/21	/100
E 83	3 /-	/-	/45	/-	/-
D 15	58 /-	/-	/88	/55	/-
Wind	reactior	s based on	MWFRS		
в в	rg Widt	h = 3.5	Min Re	q = 1.	5
Е В	rg Widt	h = 1.5	Min Re	q = -	
		h = 1.5	Min Re	iq = -	
Bearin	ıg B Fq	perp = 425p	osi.	-	
Memb	ers not	listed have	forces less	s than	375#

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)		
TC	75	-1.57	5.97		
BC	25	0.17	2.29		
BC	44	2.29	5.97		
Apply purlins to any chords above or below fillers					
at 24" OC unless shown otherwise above.					

## Wind

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

Wind loading based on both gable and hip roof types.



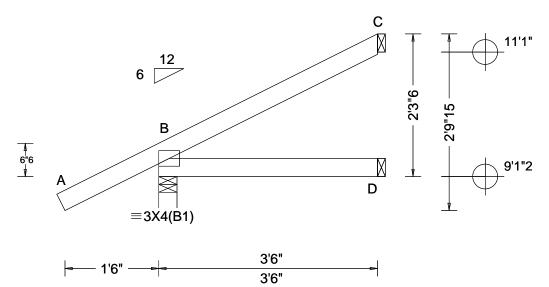
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61831 **EJAC** Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T24 FROM: RNB DrwNo: 194.21.1118.36840 Qty: 3 Busscher SPec Truss Label: EJ4 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.130
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.083
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber			

	G	avity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	254	/-	/-	/159	/24	/66
D	64	/-	/-	/33	/-	/-
С	74	/-	/-	/35	/36	/-
Win	d read	ctions b	ased on I	MWFRS		
В	Brg V	Vidth =	3.5	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	ring B	Fcper	= 425ps	si.	-	
Mer	nbers	not list	ed have f	orces les	s than	375#

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

### **Plating Notes**

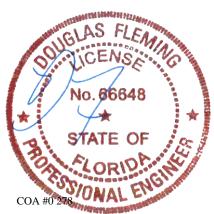
Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Spacing(in oc) Start(ft) Chord

End(ft) 3.50 40 0.17 3.50 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

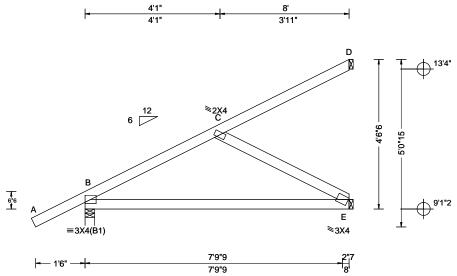
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61915 JACK Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T6 FROM: RNB DrwNo: 194.21.1118.39330 Qty: 12 Busscher SPec Truss Label: EJ8 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): -0.004 C 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): -0.010 C 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 E	
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.009 E	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.331	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.445	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.119	
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60		VIEW Ver: 20.02.00A.1020.20	I
Lumbar				-

	▲ Maximum Reactions (lbs)							
Ŀ		G	avity		No	on-Gra	vity	
60	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
40	В	406	/-	/-	/244	/19	/129	
-	Е	202	/-	/-	/142	/11	/-	
_	D	91	/-	/-	/46	/41	/-	
	Wir	nd read	ctions b	ased on I	MWFRS			
	В		Vidth =		Min Re	q = 1.5	5	
	Е	Brg V	Vidth =	1.5	Min Re	q = -		
	D	Brg V	Vidth =	1.5	Min Re	q = -		
	Bearing B Fcperp = 425psi.							
	Members not listed have forces less than 375#							

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

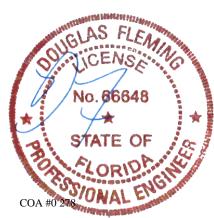
Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Spacing(in oc) End(ft) Start(ft) -1.578.00 75 0.17 7 84 BC Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

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

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

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

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

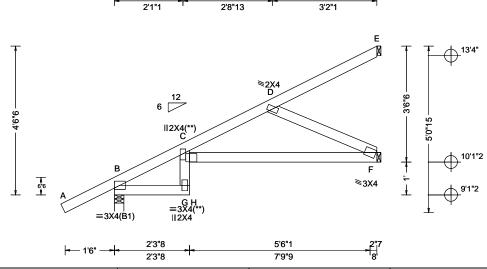
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

Suite 305 Orlando FL, 32821

6750 Forum Drive

SEQN: 61823 **EJAC** Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T36 DrwNo: 194.21.1118.47063 FROM: RNB Qty: 3 Busscher SPec Truss Label: EJ8A / DF 07/13/2021

4'9"15



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.073 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.117 G 810 240
	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.041 C
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.074 C
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.526
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.308
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.346
'	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumban		Hongan / Ties	

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 405 /243 /19 /129 241 /-/-/163 /25 /-59 /-1 /26 /28 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 1.5 Min Req = -Brg Width = 1.5 Min Rea = -Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

279 - 391

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows

to laterally brace criticas as follows.					
Chord	Spacing(in oc)	Start(ft)	End(ft)		
TC	75	-1.57	8.00		
BC	24	0.17	2.15		
BC	69	2.09	7.81		
Apply purlins to any chords above or below fillers					
at 24" OC unless shown otherwise above.					

### Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### Hangers / Ties

Bearing at location x=8' ,y=10'1"2 uses the following Support conditions: 8'
Bearing F (8', 10'1"2) THJU26
Supporting Member: Unavailable
(16) 0.148"x3" nails into supporting

member, (8) 0.148"x3" nails into supported member.

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



07/13/2021

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

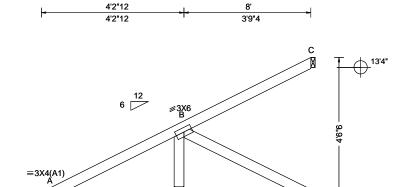
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 61890 **EJAC** Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T5 FROM: RNB DrwNo: 194.21.1118.53300 Qty: 1 Busscher SPec Truss Label: EJG8 / DF 07/13/2021



		E ⊪3X6		D ≷3X4
<del> </del>	4'1" 4'1"	- -	3'8"8 7'9"9	2"7 8

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.014 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.025 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.004 C
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.008 C
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.956
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.375
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.484
' "	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
		•	

	A N	laximu	ım Rea	ctions (I	bs)			
ı	Gravity Non-Gravity							
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Α	1486	/-	/-	/-	/162	/-	
ı	D	822	/-	/-	/-	/74	/-	
ı	С	89	/-	/-	/-	/27	/-	
ı	Wir	nd read	tions b	ased on I	MWFRS			
ı	Α	Brg V	/idth =	3.5	Min Re	q = 1.9	)	
ı			/idth =		Min Re	q = -		
ı	С	Brg V	/idth =	1.5	Min Re	q = -		
ı	Bea	aring A	Fcperp	0 = 425ps	si.			
ı	Mei	mbers	not liste	ed have f	orces les	s than 3	375#	
4	Max	kimum	Top C	hord Fo	rces Per	Ply (lb	s)	
	Cho	ords T	ens.Co	omp.			-	

A - B

A - E

Webs

E - B

139 - 1201

1037 - 112

Tens.Comp.

886

Maximum Web Forces Per Ply (lbs)

Chords Tens.Comp.

Maximum Bot Chord Forces Per Ply (lbs)

Chords

E-D

Webs

B-D

Tens. Comp.

1005 - 111

Tens. Comp.

130 - 1175

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x6 SP #1; Webs: 2x4 SP #3;

### **Special Loads**

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 56 plf at 0.00 to BC: From 10 plf at 0.00 to BC: 662 lb Conc. Load at 0.23 0.00 to 0.00 to 56 plf at 10 plf at 8 00 BC: 403 lb Conc. Load at 2.23, 4.23, 6.23

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Start(ft) End(ft) Chord Spacing(in oc) 00.8 65 0.00 92 7.84 0.15 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Wind

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



07/13/2021

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

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

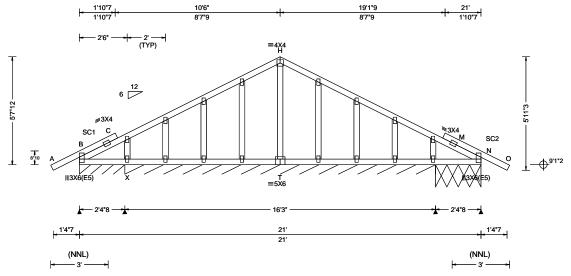
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 61837 GABL Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T2 Qty: 1 FROM: RNB DrwNo: 194.21.1119.05123 Busscher SPec Page 1 of 2 Truss Label: GE1 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.001 I 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 I 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 M
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.001 M
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.166
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.030
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.050
' •	Loc. from endwall: Any	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumban		Wind	•

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL B\* 124 /-/75 /28 129 /-/50 /-N\* 124 /79 Wind reactions based on MWFRS Brg Width = 28.5 Min Req = -Brg Width = 194 Min Req = -Brg Width = 28.5 Min Rea = -Bearings B, X, & P Fcperp = 425psi. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #1; Stack Chord: SC2 2x4 SP #1;

## **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	50	-1.43	2.43
TC	75	0.00	10.50
TC	75	10.50	21.00
TC	50	18.57	22.43
BC	120	0.00	21.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

### Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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

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

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

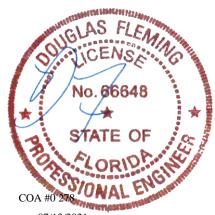


SEQN: 61837 GABL Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T2 FROM: RNB DrwNo: 194.21.1119.05123 Qty: 1 Busscher SPec Page 2 of 2 Truss Label: GE1 / DF 07/13/2021

### **Additional Notes**

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

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

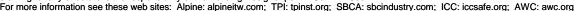


07/13/2021

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

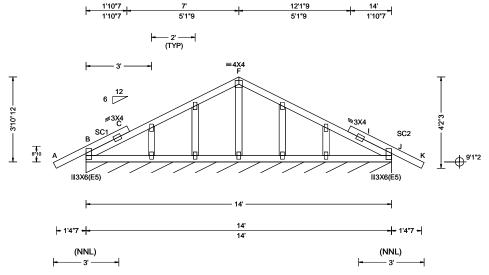
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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





SEQN: 61833 GABL Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T10 DrwNo: 194.21.1119.12407 FROM: RNB Qty: 1 Busscher SPec Page 1 of 2 Truss Label: GE2 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.004 I 999 360	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.006 I 999 240	IJ
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 I	١
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.003 I	J
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	E
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.165	1
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.043	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.030	
-	Loc. from endwall: Any	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	
Lumber		Wind		-

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity Loc R+ /Rw /U /RL J\* 128 /-/-/51 /5 Wind reactions based on MWFRS Brg Width = 168 Min Req = -Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #1; Stack Chord: SC2 2x4 SP #1;

### **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	38	-1.43	1.50
TC	75	0.00	7.00
TC	75	7.00	14.00
TC	38	12.50	15.43
BC	120	0.00	14.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



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

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

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



SEQN: 61833 GABL Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T10 FROM: RNB DrwNo: 194.21.1119.12407 Qty: 1 Busscher SPec Page 2 of 2 Truss Label: GE2 / DF 07/13/2021

### **Additional Notes**

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

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

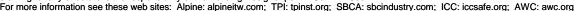


07/13/2021

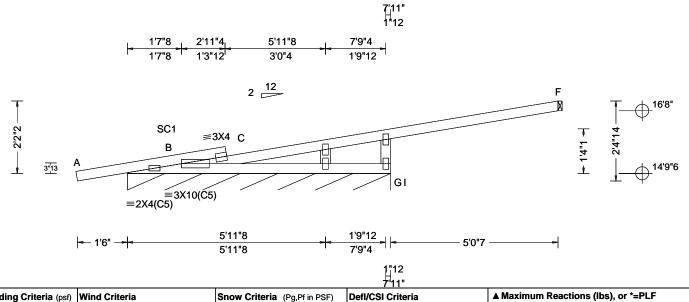
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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







Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.044 C 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.066 C 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005 F
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.008 F
NCBCLL: 10.00	Mean Height: 15.90 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.430
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.202
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.043
' '	Loc. from endwall: Any	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

#### ▲ Maximum Reactions (lbs), or \*=PLF Gravity Non-Gravity /Rw Loc R+ /Rh /U /RL l\* 146 /59 /5 /47 /-178 Wind reactions based on MWFRS Brg Width = 95.0Min Rea = -Brg Width = 1.5 Min Req = -Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

## **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

(	Chord	Spacing(in oc)	Start(ft)	End(ft)
	TC	60`	-1.52 `	3.41
	TC	75	2.51	12.95
	BC	92	0.29	7.92

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Loading

Truss designed to support 1-6-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

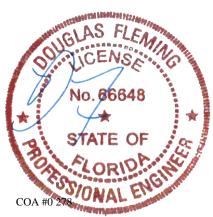
Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

### **Additional Notes**

See DWGS A14030ENC160118 & 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.



07/13/2021

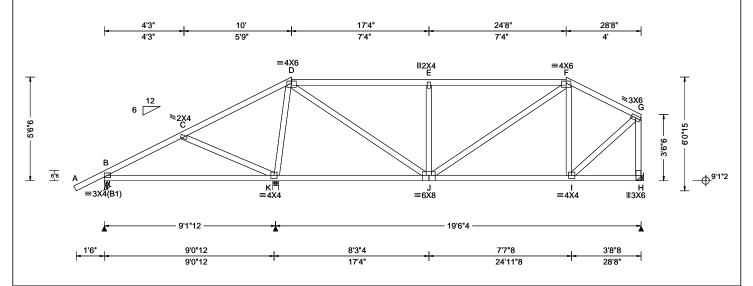
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61850 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T13 FROM: RNB DrwNo: 194.21.1119.25190 Qty: 1 Busscher SPec Truss Label: H10A / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.025 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.047 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.005 F
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.010 F
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.500
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.466
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.643
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber			

	▲ M	aximı	ım Rea	ctions (	lbs)		
		G	ravity		No	on-Grav	vity
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	В	371	/-	/-	/230	/-	/113
	K	1226	/-	/-	/612	/191	/-
	Н	721	/-	/-	/377	/42	/-
	Wind reactions based on MWFRS						
	В	Brg V	Vidth =	3.5	Min Re	q = 1.5	;
	K	Brg V	Vidth = 3	3.5	Min Re	q = 1.5	j
	Н	Brg V	Vidth = -	-	Min Re	q = -	
	Bea	rings l	B&KF	cperp =	425psi.		
	Mer	nbers	not liste	d have	forces less	s than 3	375#
	Max	imun	Top C	hord Fo	rces Per	Ply (lb	s)
	Cho	rds 1	ens.Co	mp.	Chords	Tens.	Ćomp.

D - E F-G 188 - 549 304 - 733 304

# Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; **Plating Notes**

Top chord: 2x4 SP #1;

Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

nd(ft)
).0Ò ĺ
4.67
8.67
8.67

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Hangers / Ties

(J) Hanger Support Required, by others

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



# Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

J - I 480 - 150

## Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp.	vvebs	rens. (	Jomp.
C-K	198 - 386	E-J	394	- 490
K - D	515 - 889	I - G	612	- 183
D - J	859 - 418	G-H	223	- 703

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

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

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



FROM: RNB Qty: 1 DrwNo: 194.21.1119.28047 Busscher SPec Truss Label: H12A / DF 07/13/2021 6'2"12 12' 17'4" 22'8' 28'8" 6'2"12 5'9"4 5'4" 5'4' =4X4 =4<u>X</u>6 **∌3**X6 6"6 H ⊪3X6 L ∥2X4 K ≡3X10 =3X4 =3X10 =4X4(B1)

2'1"12

14'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.072 K 999 360	l
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.134 K 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.027 H	l
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.051 H	
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.974	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.685	l
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.410	l
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	l
Lumber				•

5'9"4

11'10"4

Job Number: B53392a

8'9"12

22'9"12

448 - 1845 C - D 455 - 1481 D-E 454 - 1262

# Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; **Bracing**

Top chord: 2x4 SP #1;

SEQN: 61853

HIPS

Ply: 1

6'1'

6'1'

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	48`	-1.57 ` ´	12.00 ´
TC	24	12.00	22.67
TC	70	22.67	28.67
BC	120	0.17	28.67
naly pur	line to any charde	above or be	Now fillor

Apply purlins to any chords above or below at 24" OC unless shown otherwise above.

### Hangers / Ties

(J) Hanger Support Required, by others

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

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

07/13/2021

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

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

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

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

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



Loc R+ /Rh /Rw /U /RL 1185 /-/656 /112 /133 1078 /-/523 /99 Wind reactions based on MWFRS Brg Width = 3.5Min Req = 1.5Brg Width = -Min Reg = -Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. - 1035

Non-Gravity

5'10"4

28'8' ▲ Maximum Reactions (lbs) Gravity

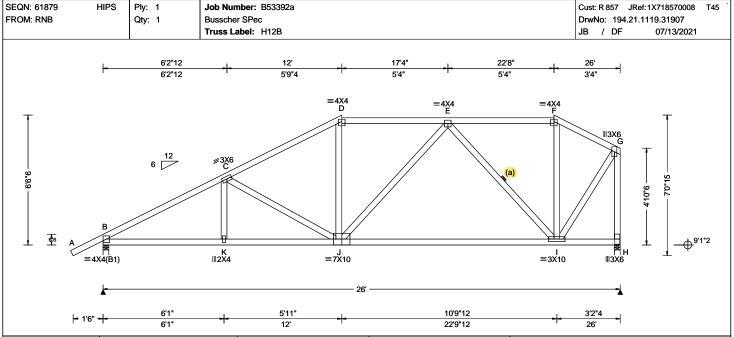
Cust: R 857 JRef: 1X718570008 T14

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

B - L	1571 - 447	K-J	1204	- 422	
L - K	1570 - 449	J - I	1204	- 422	

## Maximum Web Forces Per Ply (lbs)

K - D 385 - 14 I - G 984 - 2 E - I 269 - 500 G - H 320 - 10



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.059 C 999 360	ı
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.110 C 999 240	ı
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.023 I	
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.042 I	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.969	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.663	ı
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.535	ı
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	
Lumber				

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 1084 /-/609 /105 /196 /-/465 /89 977 Wind reactions based on MWFRS Brg Width = 3.5Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5Bearings B & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 418 - 1643 C - D 425 - 1263 257 - 569 D-E 418 - 1067

Maximum Bot Chord Forces Per Ply (lbs)

J - I

Webs

G - H

Chords Tens.Comp.

1393 - 534

1391 - 535

Tens.Comp.

850 - 299

355 - 652

Maximum Web Forces Per Ply (lbs)

B - K

K-J

Webs

E - I

1 - G

Chords Tens. Comp.

923

329

Tens. Comp.

- 462

- 998

# Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; **Bracing**

Top chord: 2x4 SP #1;

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins

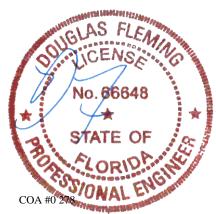
) laterally	Diace choius as	ioliows.	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	52	-1.57	12.00
TC	24	12.00	22.67
TC	44	22.67	26.00
BC	120	0.17	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



07/13/2021

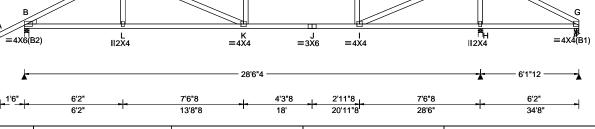
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61856 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T21 FROM: RNB Qty: 1 DrwNo: 194.21.1119.36063 Busscher SPec Truss Label: H14A / DF 07/13/2021 28'4"4 34'8" 6'3"12 20'8" 6'3"12 7'8"4 6'8" 7'8"4 6'3"12 =5X6 ≡H0<u>5</u>10 //3X6 C



Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.284 D 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.602 D 566 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.115 D
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.244 D
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.994
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.775
Spacing: 24.0 "	C&C Dist a: 3.47 ft	Rep Fac: Yes	Max Web CSI: 0.481
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.02.00A.1020.20
Lumber	•		

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 1328 /-/780 /165 892 /-/544 /244 /-/-71 1140 /-/634 /56 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.7 Brg Width = 3.5 Min Req = 1.5 Brg Width = 3.5 Min Rea = 1.5Bearings B, H, & G Fcperp = 425psi. Members not listed have forces less than 375# **Maximum Top Chord Forces Per Ply (lbs)** Chords Tens.Comp. Chords Tens. Comp.

<del>-</del>⊕<sup>9'1"2</sup>

#### B - C 435 - 2196 E-F 447 - 1602 - 1949 C-D 433 - 1624 F-G 420 D-E 446 - 1353

Chords

.1 - 1

1 - H

H-G

Webs

Tens. Comp.

Tens. Comp.

- 246

- 324

- 321

- 317

1353

1657

1660

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

1889 - 355

1886 - 357

1353 - 246

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

R-I

L - K

K - .I

### **Bracing**

Top chord: 2x4 SP #1;

Bot chord: 2x4 SP #1;

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

6"6

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

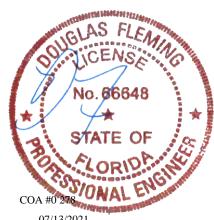
In lieu of structural panels or rigid ceiling use purlins

) laterally	brace chords as	ioliows:	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	43	-1.57	14.00
TC	24	14.00	20.67
TC	48	20.67	34.56
BC	120	0.17	34.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.



#### C - K 125 1 - F 405 F-H K - D 424 293

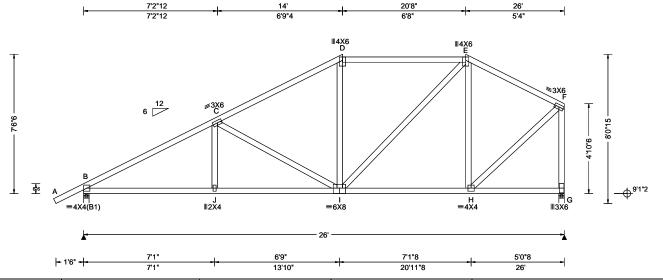
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61875 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T44 FROM: RNB DrwNo: 194.21.1119.40260 Qty: 1 Busscher SPec Truss Label: H14B / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (I	lbs)
TCLL: 20.00 TCDL: 7.00	Wind Std: ASCE 7-16 Speed: 140 mph	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.059 J 999 360	Gravity Loc R+ /R- /Rh	Non-Gravity / Rw / U  / RL
DCDL	Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Lu: NA Cs: NA Snow Duration: NA	VERT(CL): 0.110 J 999 240 HORZ(LL): 0.020 H	B 1084 /- /- G 977 /- /- Wind reactions based on	/612 /- /216 /469 /0 /-
Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0)	HORZ(TL): 0.037 H Creep Factor: 2.0  Max TC CSI: 0.982  Max BC CSI: 0.417  Max Web CSI: 0.588	B Brg Width = 3.5 G Brg Width = 3.5 Bearings B & G Fcperp = Members not listed have f Maximum Top Chord Fo	Min Req = 1.5 Min Req = 1.5 425psi. orces less than 375#
Lumber	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 20.02.00A.1020.20	B - C 351 - 1628	D - E 369 - 920 E - F 284 - 710

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	52	-1.57	14.00
TC	24	14.00	20.67
TC	71	20.67	26.00
BC	120	0.17	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Wind reactions based on MWFRS					
B Brg	Width $= 3.5$	Min Re	eq = 1.5		
G Brg	Width $= 3.5$	Min Re	eq = 1.5		
Bearings B & G Fcperp = 425psi.					
Members not listed have forces less than 375#				75#	
Maximum Top Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. 0	Comp.	
B-C	351 - 1628	D - E	369	- 920	
C-D	26/ 1111		201	710	

# Maximum Bot Chord Forces Per Ply (lbs)

Cilolus	rens.comp.		Cilolus	i ciis. v	Jonep.	
B - J		-	I - H	609	- 259	

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
C - I I - E	119 - 516 452 - 151	H-F F-G	799 299	- 265 - 941
F-H	261 - 402		200	541



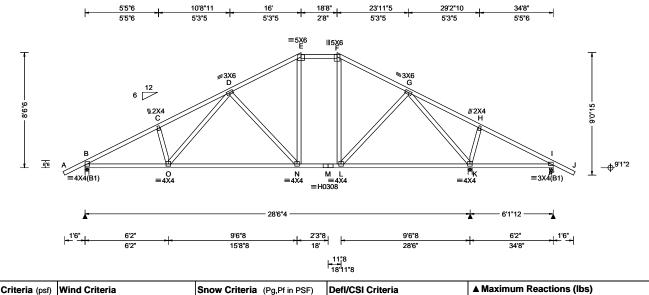
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61859 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T17 FROM: RNB DrwNo: 194.21.1119.43107 Qty: 1 Busscher SPec Truss Label: H16A / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Ī
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.147 N 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.309 N 999 240	١
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.047 E	
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.101 E	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.997	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.674	
Spacing: 24.0 "	C&C Dist a: 3.47 ft	Rep Fac: Yes	Max Web CSI: 0.994	
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		l
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.02.00A.1020.20	

L	ш	m	b	er

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

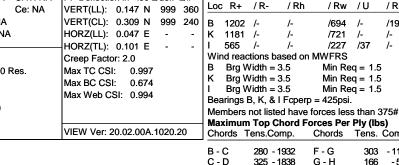
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	46	-1.57	16.00
TC	24	16.00	18.67
TC	69	18.67	36.23
BC	120	0.17	34.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



Chords	Tens.Comp.	Chords	Tens. Comp	).
B-C	280 - 1932	F-G	303 - 111	6
C - D	325 - 1838	G-H	166 - 53	3
D-E	297 - 1168	H - I	151 - 62	4
F-F	301 - 952			

Non-Gravity

/RL

/198

/Rw /U

/694

/721

/227

Min Req = 1.5

Min Req = 1.5

Min Req = 1.5

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

/Rh

/-

Gravity

Brg Width = 3.5

Brg Width = 3.5

Brg Width = 3.5

1202

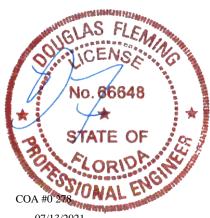
1181 /-

565

Chords	Tens.Comp.		Chords	Tens. (	Comp.
B - O	1647	- 177	M - L	952	- 29
O - N	1327	- 142	L-K	836	-71
N - M	952	- 29	K - I	495	- 146

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	omp.	Webs	Tens. (	Comp.
0 - D	454	- 10	N - E	441	- 28
D - N	167	- 553	G - K	211	- 971



07/13/2021

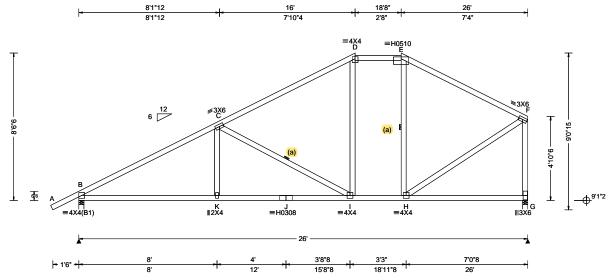
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61871 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T43 FROM: RNB Qty: 1 DrwNo: 194.21.1119.47590 Busscher SPec Truss Label: H16B / DF 07/13/2021



TCDL: 7.00 Speed: 140 mph Pf: NA Enclosure: Closed Lu: NA	Ct: NA CAT: NA PP Deflection in loc L/defl VERT(LL): 0.205 D 999 Cs: NA VERT(CL): 0.447 D 695	_/# 360
Des Ld: 37.00  NCBCLL: 10.00  EXP: B Kzt: NA  Mean Height: 15.00 ft  TCDL: 4.2 psf  Building Co	HORZ(TL): 0.189 D - Code: Creep Factor: 2.0 Max TC CSI: 0.995 2014 Max BC CSI: 0.708 Yes Max Web CSI: 0.743 (0)/0(0) e(s):	240

	▲ Maxi	mum Re	actions	(lbs)			
		Gravity		N	on-Gra	vity	
)	Loc R	+ /R-	/ Rh	/ Rw	/ U	/ RL	
)	B 108	34 /-	/-	/611	/-	/236	
	G 977	7 /-	/-	/473	/-	/-	
	Wind re	eactions	based o	n MWFRS			
	B Bro	Width:	= 3.5	Min Re	eq = 1.5	5	
	G Br	Width:	= 3.5	Min Re	.q = 1.5	5	
	Bearing	s B & G	Fcperp	= 425psi.			
	Membe	rs not lis	ted have	e forces les	s than	375#	
	Maxim	um Top	<b>Chord F</b>	orces Per	Ply (lb	s)	
	Chords	Tens.C	Comp.	Chords	Tens.	Ćomp.	_
	B-C	287	- 1633	D-E	291	- 713	
	C-D	280		E-F	251	- 852	

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Bracing**

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins

J ialtially	Diace Cilolus as	iuliuws.	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	51	-1.57	16.00
TC	24	16.00	18.67
TC	55	18.67	26.00
BC	120	0.17	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.



# Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.	
B - K	1375 - 361	J - I	1372 - 363	
K - J	1372 - 363	I - H	713 - 210	

### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. C	Comp.
C-I H-F	176 - 778 842 - 183	F-G	233	- 950

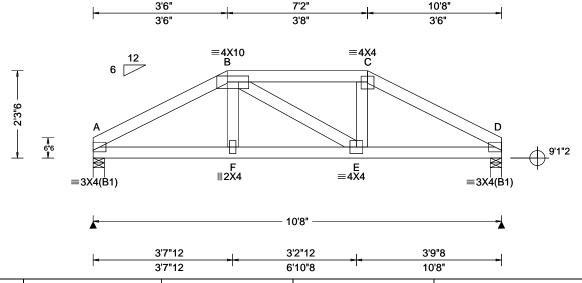
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61887 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 FROM: RNB DrwNo: 194.21.1119.49967 Qty: 1 Busscher SPec Truss Label: HG3A / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.024 F 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.044 F 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.012 E	
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.022 E	
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.387	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.340	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.075	
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		4
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	
Lumber		Wind		_

#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 662 /-D 662 /-/-Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5Bearings A & D Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 125 - 1070 127 - 1067 B - C

## Lumbei

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Special Loads**

(Lumber	Dur.Fac.=1.3	25 / Plate D	or.Fac.=1.2	25)
TC: From	56 plf at	0.00 to	56 plf at	3.50
TC: From	28 plf at	3.50 to	28 plf at	7.17
TC: From	56 plf at	7.17 to	56 plf at	10.67
BC: From	20 plf at	0.00 to	20 plf at	3.53
BC: From	10 plf at	3.53 to	10 plf at	7.14
BC: From	20 plf at	7.14 to	20 plf at	10.67
TC: 106 lb	Conc. Load	at 3.53, 7.	14	
TC: 74 lb	Conc. Load	at 5.33		
BC: 152 lb	Conc. Load	at 3.53.7.	14	

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

64 lb Conc. Load at 5.33

BC:

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	46	0.10	3.50
TC	24	3.50	7.17
TC	46	7.17	10.56
BC	120	0.17	10.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Wind

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

<b>Maximum Bot Chord</b>	Forces Per	Ply (lbs)
Charda Tana Comp	Charda	Tono Co

Choras	rens.c	omp.	Choras	rens. v	Jomp.	
A - F	906	- 99	E-D	903	- 101	
F-F	920	- 95				



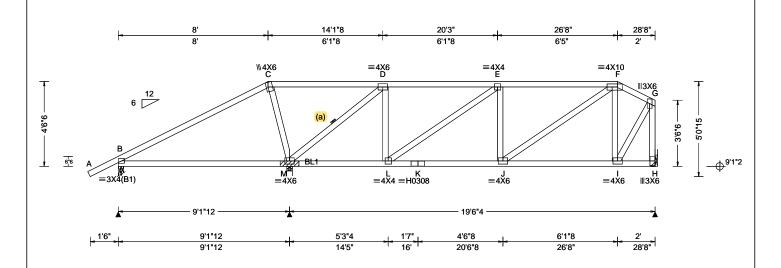
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61920 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T18 Qty: 1 DrwNo: 194.21.1119.55117 FROM: RNB Busscher SPec Page 1 of 2 Truss Label: HG8A / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.067 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.123 E 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 M
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.028 M
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.896
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.753
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.774
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.02.00A.1020.20

### Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP SS Dense; Webs: 2x4 SP #3;

### **Bracing**

(a) Continuous lateral restraint equally spaced on member. Or 2x6 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

### **Special Loads**

(Lumber	Dur.Fac.=1	.25 / Plate D	Our.Fac.=1.2	25)
TC: From	56 plf at	-1.63 to	56 plf at	8.00
TC: From	28 plf at	8.00 to	28 plf at	26.67
TC: From	56 plf at	26.67 to	56 plf at	28.67
BC: From	4 plf at	-1.63 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	8.03
BC: From	10 plf at	8.03 to	10 plf at	28.67
TC: 215 lb	Conc. Load	at 8.03	•	
TC: 91 lb	Conc. Load	at 10.06,12	2.06,14.06,1	6.06
18.06,18.60,2	20.60,22.60,	24.60,26.60	)	
	Conc. Load			
BC: 202 lb	Conc. Load	l at 10.06,12	2.06,14.06,1	6.06
18.06,18.60,2	20.60,22.60,	24.60,26.60	)	

Plates sized for a minimum of 3.50 sq.in./piece.

### Hangers / Ties

(J) Hanger Support Required, by others

# **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	. 75` ´	-1.57 `´	8.0Ò ´
TC	24	8.00	26.67
TC	27	26.67	28.67
BC	75	0.17	28.67

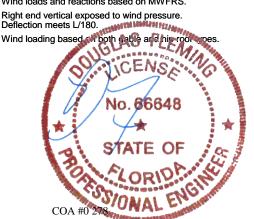
Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

### Wind

Wind loads and reactions based on MWFRS.

Wind loading based

07/13/2021



#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U В 509 /42 3104 /488 М

/RL

/-

151

- 980

1766 /280 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5

Brg Width = 3.5 Min Req = -Brg Width = -Min Req = -Bearings B & M Fcperp = 425psi.

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

Maximum Bot Chord Forces Per Ply (lbs)

257 - 1768

347 - 2294

D-E

Chords	Tens.C	Comp.	Chords	Tens. (	Comp.
M - L		- 252		2302	
L-K	2302	- 357	J - I	880	- 138

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
С - М	224 - 523	J - F	1718 - 253
M - D	452 - 2377	F-I	227 - 920
D-L	1027 -81	I-G	1668 - 262
L-E	123 - 741	G-H	284 - 1848

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

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

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



SEQN: 61920 HIPS Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T18 FROM: RNB Qty: 1 DrwNo: 194.21.1119.55117 Busscher SPec Page 2 of 2 Truss Label: HG8A / DF 07/13/2021

### Bearing Block(s)

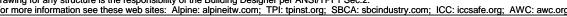
Brg blocks:0.128"x3", min. nails brg x-loc #blocks length/blk #nails/blk wall plate 2 9.000' 1 12" 4 SPF Standard Brg block to be same size and species as chord. Refer to drawing CNNAILSP1014 for more information.



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

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

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





SEQN: 61811 HIP\_ Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T39 FROM: RNB DrwNo: 194.21.1120.08670 Qty: 1 Busscher SPec Truss Label: HJ11 / DF 07/13/2021 5'10"7 11'3" 5'4"10 5'10"7 13'3"12 ≢3X6 C 4'6"2 =3X4(B1) В G ∥2X4 FE ≡3X4 5'2"6 5'8"11 - 2'1"7 5'8"11 10'11"1

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.037 G 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.070 G 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.010 F
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.019 F
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.991
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.713
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.647
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber			

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

Brg Width = 1.5

Brg Width = 1.5

Bearing B Fcperp = 425psi.

108 - 946

▲ Maximum Reactions (lbs) Gravity

/Rh

/-

Wind reactions based on MWFRS Brg Width = 4.2

Loc R+

124

В 459

Е 462

B - C

#### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - G 881 - 100 G-F 868 - 104

Members not listed have forces less than 375#

Non-Gravity

/22 /-

/46

/RL

/-

/Rw /U

Min Req = 1.5

Min Req = -

Min Rea = -

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

		٠
C-F	114	- 945

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Special Loads**

(Lumber	Dur.Fac.=1.	.25 / Plate D	Our.Fac.=1.2	25)
	0 plf at			-0.10
TC: From	2 plf at	-0.10 to	2 plf at	11.25
BC: From	0 plf at	-2.22 to	4 plf at	-0.10
BC: From	2 plf at	0.00 to	2 plf at	11.25
TC: 33 lb	Conc. Load	at 2.79		
TC: 177 lb	Conc. Load	at 5.62		
TC: 291 lb	Conc. Load	at 8.45		
	Conc. Load			
BC: 146 lb	Conc. Load	at 5.62		
BC: 223 lb	Conc. Load	at 8.45		

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	70`	-2.17 `´	11.25 ´
BC	120	0.19	11.25
Apply purl	ins to any chords	above or be	elow fillers
at 24" OC	unless shown oth	erwise abo	ve.

## Wind

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



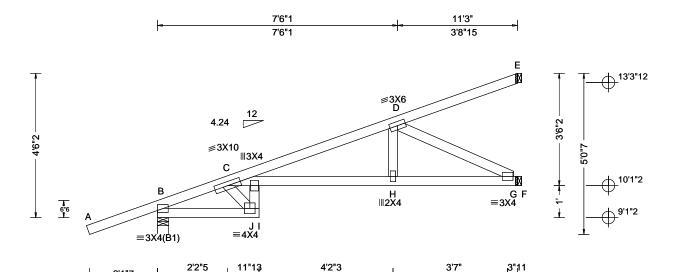
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61820 HIP\_ Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T9 FROM: RNB DrwNo: 194.21.1120.14820 Qty: 1 Busscher SPec Truss Label: HJ11A / DF 07/13/2021



7'4"5

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.187 I 716 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.356 I 376 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.061 G
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.116 G
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.975
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.845
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.447
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20
Lumber		Hangers / Ties	

3'2"2

L	.um	ber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

### **Special Loads**

ı					
	(Lum	ber Dur.Fac.=1	.25 / Plate I	Dur.Fac.=1.2	25)
	TC: From		-2.22 to		-0.10
	TC: From	m 2 plfat	-0.10 to	2 plf at	11.25
	BC: Froi	m 0 plf at	-2.22 to	4 plf at	-0.10
	BC: Froi	m 2 plf at	0.00 to	2 plf at	11.25
	TC: 3	3 lb Conc. Load	d at 2.79	•	
	TC: 20	0 lb Conc. Load	d at 5.62		
	TC: 31	5 lb Conc. Load	d at 8.45		
	BC: 6	8 lb Conc. Load	d at 2.79		
	BC: 8	2 lb Conc. Load	d at 5.62		
	BC: 16	6 lb Conc. Load	d at 8.45		

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	53`	-2.17`´	11.2Š
BC	36	0.19	3.18
BC	109	2.15	11.25
Apply purli	ns to any chords	above or be	elow fillers

at 24" OC unless shown otherwise above.

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Bearing at location x=11'3" ,y=10'1"2 uses the following support conditions: 11'3" Bearing F (11'3", 10'1"2) THJU26

Supporting Member: Unavailable (16) 0.148"x3" nails into supporting member, (8) 0.148"x3" nails into supported

member.

Recommended tie connection based on manufacturer tested capacities and calculations for vertical reactions. Conditions may exist that require different



## ▲ Maximum Reactions (lbs)

10'11"5

		ravity		No	on-Gra	vity
Lo	c R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	432	/-	/-	/-	/60	/-
F	519	/-	/-	/-	/59	/-
E	22	/-	/-	/-	/10	/-
W	ind rea	ctions b	ased on	MWFRS		
В	Brg \	Nidth =	4.2	Min Re	q = 1.5	5
F	Brg \	Nidth =	1.5	Min Re	q = -	
E	Brg \	Nidth =	1.5	Min Re	q = -	
Be	earing E	3 Fcper	0 = 425p	si.		
Me	embers	not list	ed have t	forces less	s than	375#
Ma	aximur	n Top (	hord Fo	rces Per	Ply (lb	os)
Ch	nords	Tens.Co	omp.	Chords	Tens.	Comp.

B - C 86 - 555 C-D 157 - 1158

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

Chords	Tens.C	omp.	Chords	Tens. (	Comp.
B - I	469	- 75	J - H		- 139
C - J	1145	- 147	H - G		- 140

### Maximum Web Forces Per Plv (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	116 - 737	H - D	400 0
J - I	559 - 66	D-G	157 - 1196

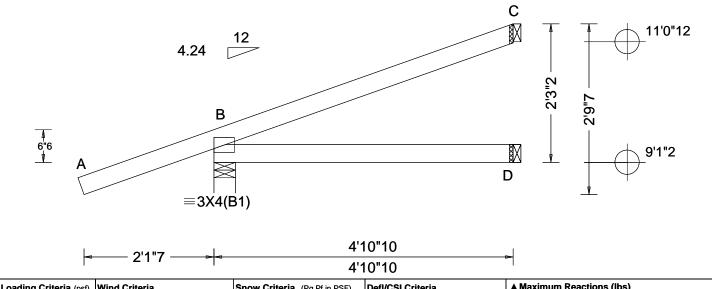
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61829 HIP\_ Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T38 FROM: RNB DrwNo: 194.21.1120.17410 Qty: 2 Busscher SPec Truss Label: HJ5 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 D HORZ(TL): 0.003 D Creep Factor: 2.0 Max TC CSI: 0.092 Max BC CSI: 0.169 Max Web CSI: 0.000	
Lumber	Willia Dalation. 1.00	WAVE	VILVV VGI. 20.02.00A. 1020.20	J

	Gravity		N	on-Gra	vity
Loc R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B 188	/-	/-	/-	/41	/-
D 88	/-	/-	/2	/-	/-
C 33	/-4	/-	/-	/12	/-
Wind rea	actions b	ased on I	MWFRS		
B Brg	Width =	4.2	Min Re	q = 1.5	5
D Brg	Width =	1.5	Min Re	iq = -	
C Brg	Width =	1.5	Min Re	iq = -	
Bearing	B Fcper	0 = 425ps	i.	•	
Member	s not list	ed have f	orces les	s than	375#

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1;

### **Special Loads**

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 0 plf at -2.22 to 55 plf at -0.10 TC: From 2 plf at 0 plf at 2 plf at -0.10 to 2 plf at 4 plf at 4.89 -0.10 BC: From BC: From 0.00 to 2 plf at -9 lb Conc. Load at 2.08 47 lb Conc. Load at 2.08

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Chord Spacing(in oc) Start(ft) End(ft) -2.17 4.89 0.19 Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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



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

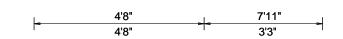
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

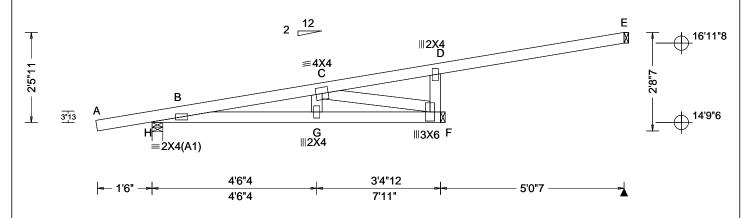
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 61934 MONO Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T20 FROM: RNB DrwNo: 194.21.1120.20847 Qty: 3 Busscher SPec Truss Label: M1 / DF 07/13/2021





			T	т
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	l
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.020 G 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.036 G 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 F	
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.007 F	
NCBCLL: 10.00	Mean Height: 16.05 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.523	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.184	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.167	
-	Loc. from endwall: Any	FT/RT:20(0)/0(0)		ı
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	
Lumber				_

# Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

Top chord: 2x4 SP #1;

**Plating Notes** Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: Spacing(in oc)

12.95 7.92 -1.52BC 93 0.15

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.

#### Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 1.5 Min Req = -Brg Width = 1.5 Min Rea = -Bearing H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 184 - 661 Maximum Bot Chord Forces Per Ply (lbs)

Non-Gravity

/81

/104 /-

/44

/Rw /U

/187

/187

/29

Chords Tens.Comp. Chords Tens. Comp.

B - G 641 - 285 G-F 629 - 290

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. C-F 304 - 644

▲ Maximum Reactions (lbs) Gravity

/Rh

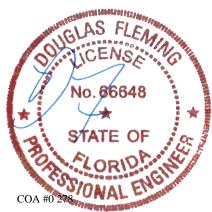
/-

Loc R+

462

112

Н 390



07/13/2021

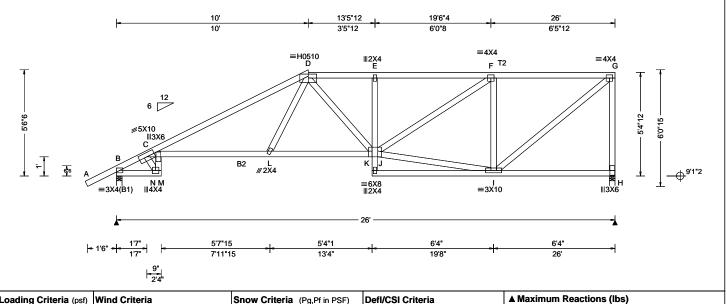
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61881 HIPM Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T46 FROM: RNB Qty: 1 DrwNo: 194.21.1120.55093 Busscher SPec Truss Label: MH1 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.389 M 799 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.726 M 428 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.188 I
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.350 I
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.989
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.863
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.676
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.02.00A.1020.20

### Lumber

Top chord: 2x4 SP SS Dense; T2 2x4 SP #1; Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense; Webs: 2x4 SP #3;

### **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

### **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	35	-1.57	10.00
TC	24	10.00	26.00
BC	26	0.17	2.33
BC	89	1.52	13.48
BC	120	13.48	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind loads based on MWFRS with additional C&C

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Snow Criteria (Pg,Pf in PSF)		DefI/CSI Criteria				
Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc	L/defl	L/#	
Pf: NA		Ce: NA	VERT(LL): 0.389 I	M 799	360	
Lu: NA	Cs: NA		VERT(CL): 0.726 I	M 428	240	
Snow Du	ration: NA	L	HORZ(LL): 0.188 I	-	-	
			HORZ(TL): 0.350 I	-	-	
Building	Code:		Creep Factor: 2.0			
FBC 7th	Ed. 2020 I	Res.	Max TC CSI: 0.98	39		
TPI Std:	2014		Max BC CSI: 0.86	3		
Rep Fac:	Yes		Max Web CSI: 0.67	76		
FT/RT:20	0(0)/0(0)					
Plate Typ	e(s):					
14/41/5 110		VIEW Ver: 20.02.004.1020.20				

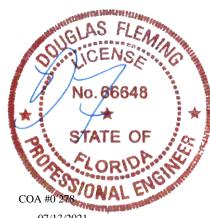
	G	ravity		Non-Gravity		
Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
В	1084	/-	/-	/602	/105	/184
Н	977	/-	/-	/478	/96	/-
Win	d reac	tions bas	sed on	<b>MWFRS</b>		
В	Brg W	/idth = 3	.5	Min Re	q = 1.5	
Н	Brg W	/idth = 3	.5	Min Re	q = 1.5	
Bea	rings E	3 & H Fc	perp =	425psi.	-	
Men	nbers	not listed	have	forces les	s than 3	375#
Max	imum	Top Ch	ord F	orces Per	Ply (lb:	s)
Cho	rds T	ens.Con	np.	Chords	Tens.	Ćomp.
В-(	2	419 - 13	318	E-F	663	- 1589
J C - I	Ď	630 - 20	013	F-G	472	- 976
D - I	E	667 - 15	597			

# Maximum Bot Chord Forces Per Ply (lbs)

Choras	rens.comp.		Choras	rens. Comp		
B - M	1020	- 501	N - L	1742	- 753	
C - N	1890	- 825	L-J	1574	- 749	

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. (	Comp.
C - M	921 - 1880	J - I	959	- 487
N - M	1431 - 681	F-I	529	- 811
L-D	465 - 10	I-G	1253	- 552
J-F	705 - 306	G-H	471	- 927



07/13/2021

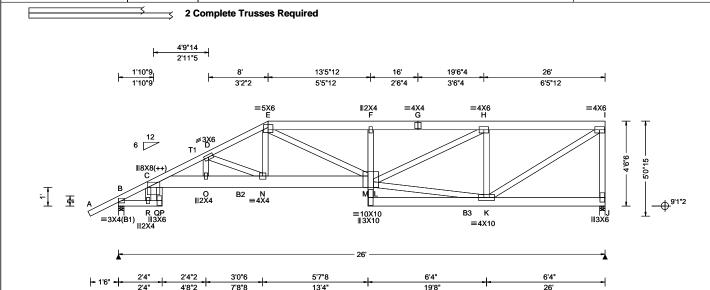
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61918 HIPM Ply: 2 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T7 FROM: RNB Qty: 1 DrwNo: 194.21.1121.09010 Busscher SPec Page 1 of 2 Truss Label: MHG1 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.229 N 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.425 N 731 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.155 K
Des Ld: 37.00	EXP: B Kzt: NA		HORZ(TL): 0.288 K
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.990
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.759
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0.740
' "	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

### Lumber

Top chord: 2x6 SP #1; T1 2x4 SP SS Dense; Bot chord: 2x4 SP SS Dense; B2 2x8 SP SS Dense; B3 2x6 SP #1; Webs: 2x4 SP #3;

### Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. :1 Row @ 4" o.c.

BC: 822 lb Conc. Load at 15.27

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

### Special Loads

opeciai Loa	us			
(Lumber	Dur.Fac.=1	.25 / Plate D	Our.Fac.=1.2	25)
TC: From	56 plf at	-1.63 to	56 plf at	8.00
TC: From	28 plf at	8.00 to	28 plf at	16.00
TC: From	56 plf at		56 plf at	26.00
BC: From	4 plf at	-1.63 to	4 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	8.06
	10 plf at	8.06 to	10 plf at	15.27
BC: From			20 plf at	26.00
	Conc. Load			
	Conc. Load		2.13	
	Conc. Load	at 14.13		
	Conc. Load	at 15.27		
	Conc. Load			
	Conc. Load		2.13	
BC: 202 lb	Conc. Load	l at 14.13		

### **Plating Notes**

(++) - This plate works for both joints covered. Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	44`	-1.57 ` ´	8.0Ò ´
TC	24	8.00	26.00
BC	26	0.17	2.33
BC	120	1.52	13.48
BC	120	13.48	26.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwith the state of the state of

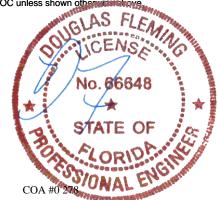
#### ▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 2362 /-/308 /-2050 /-/238 /-Wind reactions based on MWFRS Brg Width = 3.5Min Req = 1.6 В Brg Width = 3.5 Min Req = 1.5 Bearings B & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords C - D 442 - 3507 401 - 3115 D - E 382 - 2986 G-H 401 - 3115 E-F 404 - 3134 174 - 1476 H - I

## Maximum Bot Chord Forces Per Ply (lbs)

Cnoras	rens.c	omp.	Choras	rens. (	Jomp.
C - Q Q - O			O - N N - L	3204 2569	

## Maximum Web Forces Per Ply (lbs)

webs	rens.comp.		webs	rens.	Comp.
C-R	221 - 1	741	L-H	1774	- 245
Q - P	1182 -	141	L-K	1420	- 168
D - N	73 -	616	H - K	175	- 980
N - E	901 -	- 75	K - I	1755	- 207
E-L	646	- 85	I - J	135	- 1022
L - M	381 -	-20			



07/13/2021

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

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

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



SEQN: 61918 HIPM Ply: 2 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T7 FROM: RNB Qty: 1 DrwNo: 194.21.1121.09010 Busscher SPec Page 2 of 2 Truss Label: MHG1 / DF 07/13/2021

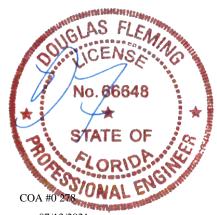
### Wind

Wind loads and reactions based on MWFRS.

Right end vertical exposed to wind pressure.

Deflection meets L/180.

Wind loading based on both gable and hip roof types.

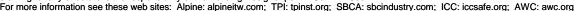


07/13/2021

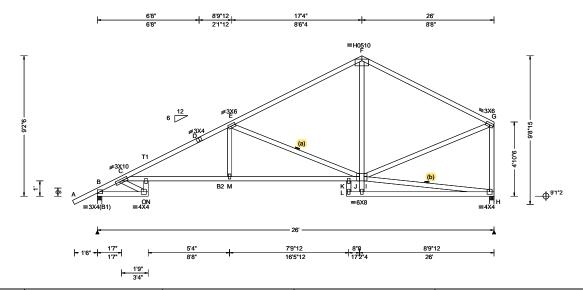
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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







Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)		DefI/CSI Criteria					
TCLL: 20	0.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflectio	n in loc l	_/defl	L/#
TCDL: 7		Speed: 140 mph	Pf: NA		Ce: NA	VERT(LL):	0.428 N	726	360
BCLL: 0			Lu: NA	Cs: NA		VERT(CL):	0.799 N	388	240
BCDL: 10	0.00	Risk Category: II	Snow Dur	ation: NA		HORZ(LL):	0.156 H	-	-
Des Ld: 3	7 00	EXP: B Kzt: NA				HORZ(TL):	0.291 H	-	-
NCBCLL: 10	0.00	Mean Height: 15.00 ft TCDL: 4.2 psf	<b>Building C</b>	ode:		Creep Facto	r: 2.0		
Soffit: 2	2.00	BCDL: 4.2 psi	FBC 7th E	d. 2020 F	Res.	Max TC CSI	0.993		
Load Duration		MWFRS Parallel Dist: h to 2h	TPI Std:	2014		Max BC CSI	0.748		
Spacing: 24	.0 "	C&C Dist a: 3.00 ft	Rep Fac: `	Yes		Max Web CS	SI: 0.927		
-		Loc. from endwall: not in 9.00 ft	FT/RT:20(	(0)/0(0)					
	GCpi: 0.18		Plate Type	e(s):					
Wind Duration: 1.60		WAVE, HS	3		VIEW Ver: 2	0.02.00A.	1020.2	20	

## Lumber

Top chord: 2x4 SP #1; T1 2x4 SP SS Dense; Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense; Webs: 2x4 SP #3;

## **Bracing**

(b) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(a) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

## **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	26	-1.57	17.33
BC	38	0.17	3.33
BC	112	1.52	17.33
BC	116	16.33	26.00
Annly nurli	ins to any chords	above or be	low fillers

at 24" OC unless shown otherwise above.

## Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

## В 1084 /-/609 /250 977 /-/478 /-Wind reactions based on MWFRS Brg Width = 3.5В Min Rea = 1.5Brg Width = 3.5 Min Req = 1.5Bearings B & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 253 - 1283 219 C - D 265 - 1994 197 - 952 D-E 274 - 1866

/Rh

Non-Gravity

/RL

/Rw /U

▲ Maximum Reactions (lbs) Gravity

Loc R+

Maximum Bot Chord Forces Per Ply (lbs)								
Chords	Tens.C	Comp.	Chords	Tens. (	Comp.			
B - N	975	- 323	M - K	1734	- 401			
C - O	1781	- 415	K-I	1646	- 405			
$\circ$ M	17/12	400						

## Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - N 386 - 1158 430 0 O - N 555 - 158 1 - J 454 0 M - E 450 0 I-G 831 - 133 244 - 1057 G - H 186 -888

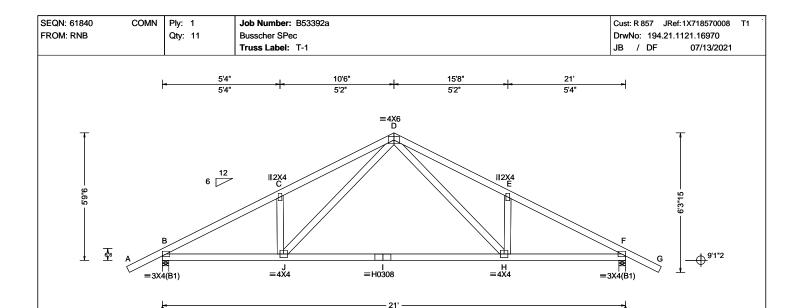


\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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





5'6"

15'6'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.055 J 999 360	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.101 J 999 240	E
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 H	F
Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0)	HORZ(TL): 0.045 H Creep Factor: 2.0  Max TC CSI: 0.996  Max BC CSI: 0.546  Max Web CSI: 0.201	V B F B N N C
	GCpi: 0.18	Plate Type(s):		<u>-</u>
Lumber	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 20.02.00A.1020.20	] [

4'6"

10'

5'6"

	▲ Maximum Reactions (lbs)								
		Gravit	ty		Non-Gra	vity			
,	Loc F	R+ /R	- / RI	n / R	w /U	/ RL			
,	В 88	8 /-	/-	/48	4 /87	/138			
	F 88	8 /-	/-	/48	4 /87	/-			
	Wind r	eaction	s based o	n MWFR	s				
	B B	g Width	n = 3.5	Min I	Req = 1.5	5			
	F B	g Width	n = 3.5	Min I	Req = 1.5	5			
	Bearin	gs B &	F Fcperp	= 425psi.					
	Memb	ers not	listed hav	e forces le	ess than	375#			
	Maximum Top Chord Forces Per Ply (lbs)								
	Chords	s Tens	.Comp.	Chords	Tens.	Comp.			
	в-с	36	3 - 1314	D-F	469	- 1273			
	C-D		3 - 1273	Ē-F	362				

Maximum Bot Chord Forces Per Ply (lbs)

Chords

H-F

Webs

D-H

Tens. Comp.

Tens. Comp.

- 122

- 228

- 155

734

1104

527

Chords Tens.Comp.

1104 - 244

734 - 122

Tens.Comp.

528 - 154

Maximum Web Forces Per Ply (lbs)

B - J

J - I

Webs

J - D

1'6" -

5'6"

## Lumbei

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

## **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

- 1'6" --

## **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	60	-1.57	10.50
TC	60	10.50	22.57
BC	120	0.17	20.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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.

Wind loading based on both gable and hip roof types.



07/13/2021

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

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

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

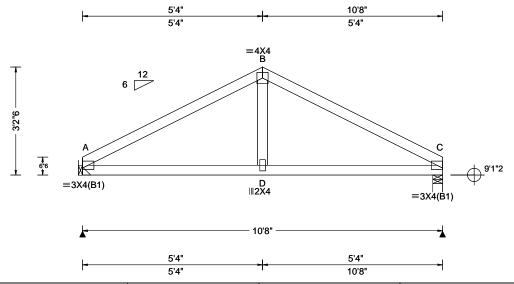
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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

6750 Forum Drive Suite 305 Orlando FL, 32821

COA #0 278

SEQN: 61885 COMN Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T19 FROM: RNB DrwNo: 194.21.1121.21550 Qty: 3 Busscher SPec Page 1 of 2 Truss Label: T-2 / DF 07/13/2021



TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	DefI/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.006 D 999 360 VERT(CL): 0.012 D 999 240 HORZ(LL): 0.003 D HORZ(TL): 0.006 D Creep Factor: 2.0 Max TC CSI: 0.317 Max BC CSI: 0.192 Max Web CSI: 0.087  VIEW Ver: 20.02.00A.1020.20	A Maximum React Gravity Loc R+ /R- A 403 /- C 403 /- Wind reactions bas A Brg Width = - C Brg Width = - C Brg Width = 0 C Brg Width = 1 C Brg Width = 3 Bearing C Foperp = 1 Members not listed Maximum Top Ch Chords Tens.Com A - B 216 - 5
Lumbar	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20	]^. 5 2.0 0

	▲ Maximum Reactions (lbs)							
			Gravity		N	lon-Gra	vity	
)	Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
)	Α	403	/-	/-	/211	/32	/53	
	С	403	/-	/-	/211	/32	/-	
	Wir	nd rea	actions I	pased o	n MWFRS			
	Α	Brg	Width =	= -	Min Re	eq = -		
	С	Brg	Width =	3.5	Min Re	eq = 1.	5	
	Bea	aring	C Fcpei	p = 425	ipsi.			
	Mei	mber	s not lis	ted have	e forces les	s than	375#	
	Maximum Top Chord Forces Per Ply (lbs)							
	Cho	ords	Tens.C	omp.	Chords	Tens.	Ćomp.	
	Α-	В	216	- 530	B - C	215	- 530	

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens. Comp.

419

Chords Tens.Comp.

419 - 129

## Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

## **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

## **Purlins**

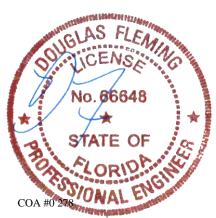
In lieu of structural panels or rigid ceiling use purlins

o iaterany	brace chords as i	ollows:	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	70	0.10	5.33
TC	70	5.33	10.56
BC	120	0.17	10.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

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

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

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



SEQN: 61885 COMN Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T19 FROM: RNB DrwNo: 194.21.1121.21550 Qty: 3 Busscher SPec Page 2 of 2 Truss Label: T-2 / DF 07/13/2021

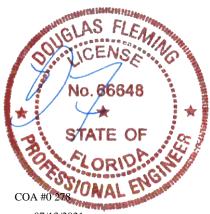
## Hangers / Ties

member.

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

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

Bearing at location x=0' uses the following support conditions: 0'
Bearing A (0', 9'1"2) HUS26
Supporting Member: (1)2x6 SP #1 (14) 0.148"x3" nails into supporting member, (4) 0.148"x3" nails into supported

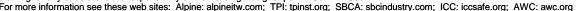


07/13/2021

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

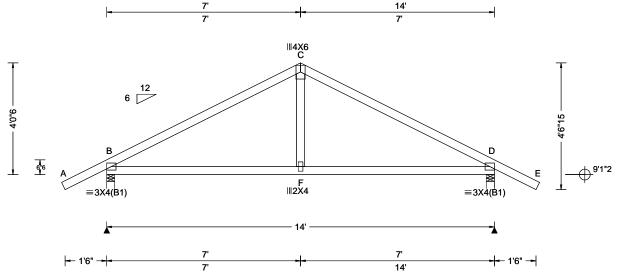
\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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





SEQN: 61842 COMN Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T11 FROM: RNB DrwNo: 194.21.1121.24293 Qty: 4 Busscher SPec Truss Label: T-3 / DF 07/13/2021



Loading Criteria (psf) Wind (
TCLL: 20.00 Wind S TCDL: 7.00 Speed: BCLL: 0.00 Enclos BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 EXP: E Mean H TCDL: Spacing: 24.0 " Wind S Speed: EXP: E Mean H TCDL: SC D Loc. frc

	▲ Maximum Reactions (lbs)							
		(	Gravity		1	Non-Gra	vity	
<u>  L</u>	ос	R+	/ R-	/ Rh	ı /Rw	/ /U	/ RL	
В	6	324	/-	/-	/347	' /65	/103	
D	e	524	/-	/-	/347	/65	/-	
W	/inc	l rea	ctions l	pased o	n MWFRS	3		
В	- 1	Brg ۱	Width =	3.5	Min R	eq = 1.5	5	
D	- 1	Brg ۱	Width =	3.5	Min R	Req = 1.	5	
В	ear	ings	B & D	Fcperp	= 425psi.			
М	em	bers	not list	ted hav	e forces le	ss than	375#	
М	Maximum Top Chord Forces Per Ply (lbs)							
<u>c</u>	hor	ds	Tens.C	omp.	Chords	Tens.	. Ćomp.	
٦в	- C	;	290	- 692	C-D	290	- 692	
	Ī							

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens. Comp.

544

Chords Tens.Comp.

544 - 108

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

## **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

## **Purlins**

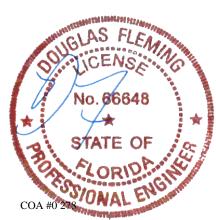
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	-1.57	7.00
TC	75	7.00	15.57
BC	120	0.17	13.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

Wind loading based on both gable and hip roof types.



07/13/2021

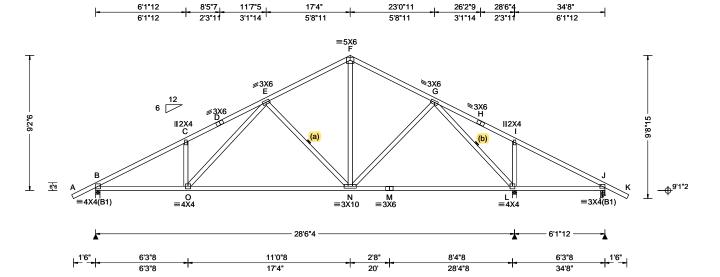
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61925 COMN Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 T15 DrwNo: 194.21.1121.30837 FROM: RNB Qty: 5 Busscher SPec Truss Label: T-4 / DF 07/13/2021



Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
Pf: NA Ce: NA	VERT(LL): 0.075 C 999 360
.u: NA Cs: NA	VERT(CL): 0.141 O 999 240
Snow Duration: NA	HORZ(LL): 0.026 L
	HORZ(TL): 0.048 L
Building Code:	Creep Factor: 2.0
BC 7th Ed. 2020 Res.	Max TC CSI: 0.998
TPI Std: 2014	Max BC CSI: 0.807
Rep Fac: Yes	Max Web CSI: 0.891
T/RT:20(0)/0(0)	
Plate Type(s):	
VAVE	VIEW Ver: 20.02.00A.1020.20
3 - 3	g: NA Ct: NA CAT: NA f: NA Ce: NA u: NA Cs: NA now Duration: NA  uilding Code: BC 7th Ed. 2020 Res. PI Std: 2014 ep Fac: Yes T/RT:20(0)/0(0) late Type(s):

Lumber
--------

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1: Webs: 2x4 SP #3;

## **Bracing**

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

## **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

## **Purlins**

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	49	-1.57	17.33
TC	75	17.33	36.23
BC	75	0.17	34.50
Apply purli	no to any charda	ahava ar ha	low filloro

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

# Wind

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

Wind loading based on both gable and hip roof types.

Chords Tens.Comp. Chords Tens. Comp. B - C E-F 230 - 947 205 - 1790 271 - 1742 - 945

Non-Gravity

/65

Min Req = 1.5

Min Req = 1.9

Min Rea = 1.5

/RL

/212

/Rw /U

/636

/751

/147

▲ Maximum Reactions (lbs) Gravity

/-66

Brg Width = 3.5

Brg Width = 3.5

/Rh

/-

Wind reactions based on MWFRS Brg Width = 3.5

Bearings B, L, & J Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Loc R+

1500 /-

282

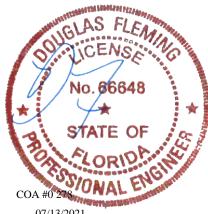
В 1139

Ď-Ē	284 - 1683	G-H	388	-3

Maximum Bot Chord Forces Per Ply (lbs)							
Chords	Tens.C	omp.	Chords	Tens. Comp			
в О	1520	OQ.	NI M	633	10		

O - N	1146	-61	M - L	633	- 18		
Maximum Web Forces Per Plv (lbs)							

	s Tens.Comp.			•	Comp.
0-E	552	- 46	F-N	514	- 46
E-N	174	- 526	G-L	145	- 1325



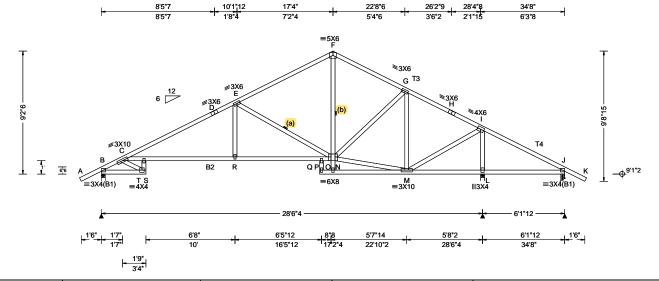
07/13/2021

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

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

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





Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria					
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection	in loc L	/defl	L/#
TCDL:	7.00	Speed: 140 mph	Pf: NA		Ce: NA	VERT(LL): 0	.538 S	634	360
BCLL:	0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL): 0	.993 S	343	240
BCDL:	10.00	Risk Category: II	Snow Dur	ation: NA		HORZ(LL): 0	.184 M	-	-
Des Ld:	37.00	EXP: B Kzt: NA				HORZ(TL): 0	.342 M	-	-
NCBCLL:	10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building C	ode:		Creep Factor:	2.0		
Soffit:	2.00	BCDL: 4.2 psi	FBC 7th E	d. 2020 F	Res.	Max TC CSI:	0.993		
Load Dura	ation: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std:	2014		Max BC CSI:	1.000		
Spacing: 2	24.0 "	C&C Dist a: 3.47 ft	Rep Fac: `	Yes		Max Web CSI	0.849		
-		Loc. from endwall: not in 9.00 ft	FT/RT:20(	(0)/0(0)					
		GCpi: 0.18	Plate Type	e(s):					
		Wind Duration: 1.60	WAVE			VIEW Ver: 20.	02.00A.	1020.2	20

## Lumber

Top chord: 2x4 SP SS Dense; T3,T4 2x4 SP #1; Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense; Webs: 2x4 SP #3;

## **Bracing**

- (b) Continuous lateral restraint equally spaced on member.
- (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T' reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

## **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins

o laterally	Diace Cilorus as	ioliowa.	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	42	-1.57	17.33
TC	75	17.33	36.23
BC	38	0.17	3.33
BC	104	1.52	17.33
BC	66	16.33	34.50

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

## Loading

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

## Wind

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

Wind loading based on both gable and hip roof types.

## **Additional Notes**

Negative reaction(s) of -524# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions



▲ Maximum Reactions (lbs)							
	G	ravity		No	Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	1043	/-	/-	/572	/-	/212	
L	2104	/-	/-	/1088	/-	/-	
J	65	/-524	/-	/127	/336	/-	
Wir	nd read	tions ba	sed on	MWFRS			
В	Brg V	Vidth = 3	3.5	Min Re	q = 1.5	;	
L	Brg V	Vidth = 3	3.5	Min Re	q = 2.6	;	
J	Brg V	Vidth = 3	3.5	Min Re	q = 1.5	;	
Bearings B, L, & J Fcperp = 425psi.							
Members not listed have forces less than 375#							
Maximum Top Chord Forces Per Ply (lbs)							
Chords Tens.Comp. Chords Tens.Comp.							

B - C	269 - 1251	F-G	205	- 812
C - D	225 - 1746	G-H	155	- 519
D-E	232 - 1573	H - I	140	- 565
E-F	214 - 850	I - J	1320	- 101

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
B-S	959	- 205	P - N	1452	-76	
C - T	1537	- 89	M - L	158	- 1096	
T - R	1501	- 78	L-J	165	- 1140	
P D	1/0/	- 80				

## Maximum Web Forces Per Ply (lbs)

Tens.Comp.	Webs	Tens. Comp.
247 - 1137	N - G	462 - 49
545 - 91	N - M	417 0
462 0	G - M	110 - 764
180 - 985	M - I	1660 - 116
425 - 31	I-L	278 - 1878
	247 - 1137 545 - 91 462 0 180 - 985	247 -1137 N - G 545 -91 N - M 462 0 G - M 180 -985 M - I

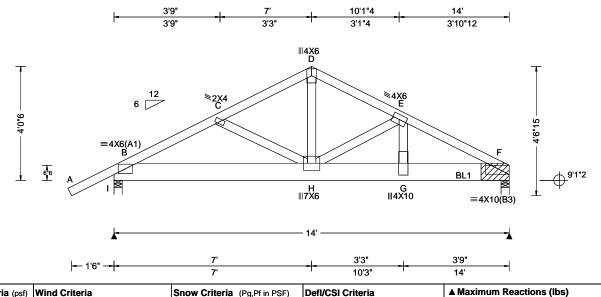
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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

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



SEQN: 61923 COMN Ply: 1 Job Number: B53392a Cust: R 857 JRef: 1X718570008 FROM: RNB Qty: 1 DrwNo: 194.21.1121.40893 Busscher SPec Truss Label: TG-1 / DF 07/13/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#			
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.067 G 999 360			
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.123 G 999 240			
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.015 C			
Des Ld: 37.00	EXP: B Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.027 C			
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0			
Soffit: 2.00	BCDL: 6.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.947			
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.532			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.897			
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/0(0)				
	GCpi: 0.18	Plate Type(s):				
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20			
Lumber		Bearing Block(s)				

# Bearing Block(s)

Brg blocks:0.128"x3", min. nails brg x-loc #blocks length/blk #nails/blk wall plate 2 13.708' 1 12" 4 SPF Standard Brg block to be same size and species as chord. Refer to drawing CNNAILSP1014 for more information.

## Maximum Bot Chord Forces Per Ply (lbs)

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

/Rh

/-

Wind reactions based on MWFRS Brg Width = 3.5

Bearings I & F Fcperp = 425psi.

421 - 3058

215 - 1803

Gravity

Brg Width = 3.5

Chords Tens.Comp.

Loc R+

H - E

1704 /-

2955

Chords	Tens.C	Comp.	Chords	Tens. (	Comp.
B - H H - G	2681 4124		G-F	4190	- 510

Non-Gravity

/226 /-

Tens. Comp.

583 - 4730

/RL

/-/349

/Rw /U

Min Req = 2.1

Min Reg = -

Chords

## Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs D-H 2356 - 255 E-G 1626 - 155

Top chord: 2x4 SP #1; Bot chord: 2x8 SP SS Dense; Webs: 2x4 SP #3;

## **Special Loads**

Dur.Fac.=1.	25 / Plate D	Our.Fac.=1.2	25)
		56 plf at	14.00
4 plf at	-1.63 to	4 plf at	0.00
		20 plf at	8.06
10 plf at	8.06 to	10 plf at	14.00
		-	
Conc. Load	at 10.06		
Conc. Load	at 12.06		
	56 plf at 4 plf at 20 plf at 10 plf at Conc. Load Conc. Load	56 plf at -1.63 to	4 plf at -1.63 to 4 plf at 20 plf at 0.00 to 20 plf at 10 plf at 8.06 to 10 plf at 0.00. Load at 8.06 Conc. Load at 10.06

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)							
TC	37`	-1.57 `	7.0Ò ´							
TC	30	7.00	14.00							
BC	120	0.15	13.85							
Apply purlins to any chords above or below fillers										
at 24" OC unless shown otherwise above.										

## Wind

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



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

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

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



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

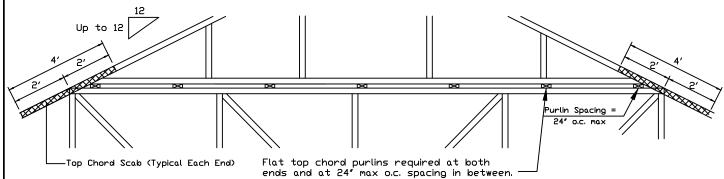
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

\*\* Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

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



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

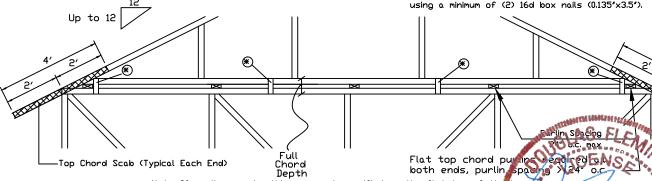
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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



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

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

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 (0.13'x2') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

## 2x4 Vertical Scabs

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

## 28PB Wave Piggyback Plate

Ine 28PB wave piggyback plate to each face 8 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120'x1.375' nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

# \*\*\*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 the installers 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 ps BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bo on the shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of visions in the shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to each of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation; now 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 destinations.

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.iccsafe.org

**PIGGYBACK** 01/02/2018 DATE DRWG PB160160118

SPACING 24.0"

13723 Riverport Drive Suite 200 Maryland Heights, MO 63043

AN ITW COMPANY

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

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

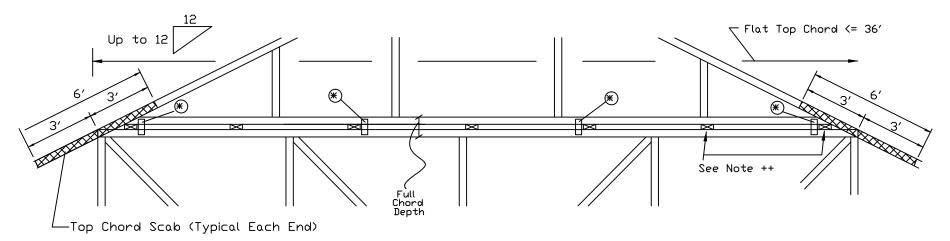
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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.

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.

++ Flat top chord purlins required at both ends and at a maximum of 24" intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



* In addition, provide connection with one of the following methods:								
Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8° o.c. with (4) 0.120'x1.375' nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.	28PB Wave Piggyback Plate  One 28PB wave piggyback plate to each face 8 % o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120°x1.375° nails per face per ply. Piggyback plates may be staggered 4° o.c. front to back faces.							
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') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.	2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, ("" cap bot m chord and (3) in base trus to from: Scal may be staggered 4' o.c. rout to hack ose.							



\*\*\*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. Ref in foliow the latest edition of BCSI (Bulding Component Safety Information, by TPI and SBCA) fcl. safe 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 bor on shall have properly attached rigid celling. Locations shown for permanent learn restraint f shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to early of truss and position as shown above and on the Joint Details, unless noted otherwise.

Refer to drawings IGOA-Z for standard plate positions.

Alpine, a division of ITV Bullding Conponents Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping; installation is bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the description shown. The sith-bulldung and the description of the state of of the sta

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

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

ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.lccsafe.org

STATE OF

REF PIGGYBACK
DATE 01/02/2018

DRWG PB180160118

2.07.15

SPACING 24.0"

# Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

- (B) = Damaged area, 12" max length of damaged section
- (L) = Minimum nailing distance on each side of damaged area (B)
- (S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2)(L) + (B)

Scab member length (S) must be within the broken panel.

Nail into  $2\times4$  members using two (2) rows at 4'' o.c., rows staggered. Nail into  $2\times6$  members using three (3) rows at 4'' o.c., rows staggered.

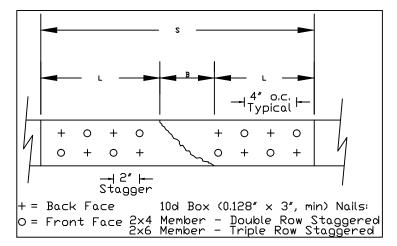
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

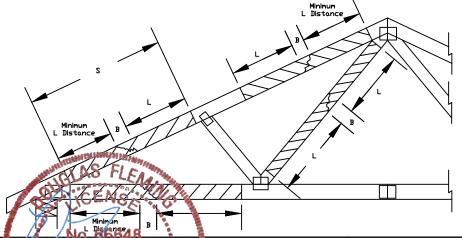
Broken chord may not support any tie-in loads.



Nail Spacing Detail

Load Duration = 0% Member forces may be increased for Duration of Load

			Maximum Member Axial Force				
Member	Size	L	SPF-C	HF	DF-L	SYP	
Web □nly	2×4	12″	620#	635#	730#	800#	
Web □nly	2×4	18"	975#	1055#	1295#	1415#	
Web or Chord	2×4	24"	975#	1055#	1495#	1745#	
Web or Chord	2×6	<u> </u>	1465#	1585#	2245#	2620#	
Web or Chord	2×4	30″	1910#	1960#	2315#	2555#	
Web or Chord	2×6	30	2230#	2365#	3125#	3575#	
Web or Chord	2×4	36″	2470#	2530#	2930#	3210#	
Web or Chord	2×6	30	3535#	3635#	4295#	4745#	
Web or Chord	2×4	42″	2975#	3045#	3505#	3835#	
Web or Chord	2×6	46	4395#	4500#	5225#	5725#	
Web or Chord	2×4	48″	3460#	3540#	4070#	4445#	
Web or Chord	2×6	40	5165#	5280#	6095#	6660#	





MMVARNINGHM READ AND FOLLOW ALL NOTES ON THIS DRAVING MMIMPORTANTHM FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLER:

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to an 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 possible to the service of t

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

CORIDA HIE

REF MEMBER REPAIR
DATE 10/01/14

DRWG REPCHRD1014

SPACING 24.0" MAX

## Gable Stud Reinforcement Detail

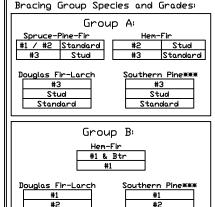
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

2×4 Brace (1) 1×4 "L" Brace * (1) 2×4 "L" Brace ** (2) 2×4 "L" Brace ** (1) 2×6 "L" Brace ** (2) 2×4 "L" Brace ** (3) 2×6 "L" Brace ** (4) 2×6 "L" Brace ** (5) 2×6 "L" Brace ** (7) 2×6 "L" Brace ** (8) 2×6 "L" Brace ** (1) 2×6 "L" Brace ** (1) 2×6 "L" Brace ** (2) 2×6 "L" Brace ** (3) 2×6 "L" Brace ** (4) 2×6 "L" Brace ** (5) 2×6 "L" Brace ** (7) 2×6 "L" Brace ** (8) 2×6 "L" Brace **								1						
		2x4 Vertica	Brace	No	(1) 1×4 "L	RLOCE *	(1) 2×4 L	." Brace *	(2) 2×4 L	" Brace **	(1) 2x6 L	" Brace *	(5) 5×6 L	Rrace **
_	Spacing	Species	Grade	-	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
†		CDL	#1 / #2	4′ 3″	7′ 3″	7′ 7 <b>″</b>	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 3″	10′ 8 <b>″</b>	13′ 6″	14' 0"	14' 0"	14′ 0″
	1.7	SPF	#3	4′ 1″	6′ 7 <b>″</b>	7′ 1″	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6 <b>″</b>	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0″
<u>ا</u> ق	Ų	HF	Stud	4′ 1 <b>″</b>	6′ 7 <b>″</b>	7′ 0 <b>″</b>	8′ 6 <b>″</b>	8′ 10 <b>″</b>	10′ 1″	10′ 6″	13′ 4″	13′ 10 <b>″</b>	14′ 0″	14′ 0 <b>″</b>
Č	0	1 11	Standard	4′ 1″	5′ 8 <b>″</b>	6′ 0 <b>″</b>	7′ 7″	8′ 1 <b>″</b>	10′ 1″	10′ 6″	11′ 10″	12′ 8″	14′ 0″	14′ 0″
ا به ا			#1	4′ 6″	7′ 4″	7′ 8 <b>′</b>	8′ 8 <b>″</b>	9′ 0″	10′ 4″	10′ 9″	13′ 8″	14′ 0″	14′ 0″	14′ 0″
	*	SP	#2	4′ 3″	7′ 3″	7′ 7″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	l	#3	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>′</b>	13′ 4″	14′ 0″	14′ 0″
	$\Omega$	IDFL	Stud	4′ 2″	6′ 0 <b>″</b>	6′ 4″	7′ 11″	8′ 6 <b>″</b>	10′ 2″	10′ 7″	12′ 5 <b>″</b>	13′ 4″	14′ 0″	14′ 0″
<u> </u>			Standard	4′ 0″	5′ 3″	5′ 7 <b>″</b>	7′ 0 <b>″</b>	7′ 6″	9′ 6″	10′ 2 <b>″</b>	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.5		SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1		2FF	#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″
	$\cup$	HF	Stud	4′ 8″	8′ 1″	8′ 6 <b>″</b>	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 à 1	Ō	1 11	Standard	4′ 8″	6′ 11″	7′ 5 <b>′</b>	9′ 3″	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 ~ 1	0		#1	5′ 1 <b>″</b>	8′ 5 <b>″</b>	8′ 9 <b>′</b>	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14' 0"	14′ 0″	14′ 0″
/	*	SP	#2	4′ 11″	8′ 4″	8′ 8 <b>″</b>	9′ 10″	10′ 3″	11′ 8″	12′ 2 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	è	l	#3	4′ 9″	7′ 4″	7′ 9 <b>″</b>	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 0 1	Ţ	IDFL	Stud	4′ 9 <b>″</b>	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 – 1			Standard	4′ 8″	6′ 5″	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
abl		SPF	#1 / #2	5′ 5 <b>″</b>	9′ 2″	9′ 6″	10′ 10 <b>″</b>	11′ 3″	11′ 8″	13′ 5 <b>″</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
		SLL	#3	5′ 1 <b>′</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
اقا	$\cup$	HF	Stud	5′ 1 <b>′</b>	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	1 11	Standard	5′ 1 <b>″</b>	8′ 0″	8′ 6 <b>″</b>	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
×	)		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
8	*	SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5 <b>′</b>	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ĮΣ	ù	l	#3	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ţ	DFL	Stud	5′ 3 <b>″</b>	8′ 5 <b>″</b>	9′ 0″	10′ 9 <b>″</b>	11′ 2″	12′ 10 <b>″</b>	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1 <b>″</b>	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

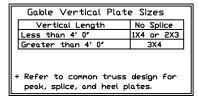
Gable Truss Detail Notes: Wind Load deflection criterion is L/240.

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

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

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

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



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

Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2×4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. ntinuous Bearing Connect diagonal at Refer to chart boy for lena midpoint of vertical web.

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Reference are in fabricating, handling, shipping, installing and bracing. Reference are 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 ps BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bo no shall have a properly attached rigid celling. Locations shown for pernanent lateral restraint of visional have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to ear following the property attached structural supplications as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviations this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping; installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

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

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

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

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

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

(4) nails in the top and bottom chords.

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

(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

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

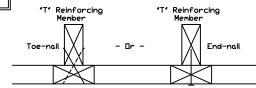
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118

\$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PE 100118, \$11530ENC100118, \$12030ENC100118, \$14030ENC.00118, \$14030ENC.0018, \$14030E S18030ENC100118, S20030ENC100118, S20030 NITCOLES S20030PED100118

See appropriate Alpine gable detail for maxium preinforced gable vertical length.

## "T" Reinforcement Attachment Detail



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

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

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

## Web Length Increase w/ "T" Brace

"T" Reinf.	<b>'</b> T'
Mbr. Size	Increase
2×4	30 %
2x6	20 %

## Example:

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

"T" Brace Increase (From Above) = 30% = 1.30 (1) 2x4 "L" Brace Length = 8' 7"

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

# \*\*\*VARNING|\*\* READ AND FOLLOW ALL NOTES ON THIS DRAVING \*\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLER:

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Ref. of follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) fc spractices prior to performing these functions. Installers shall provide temporary bracing pe Unless noted otherwise, top chord shall have properly attached structural sheathing and bo shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to ear of truss and position as shown above and on the Joint Details, unless noted otherwise.

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

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation of this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping:

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional

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

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

MAX, TOT, LD, 60 PSF DUR. FAC. ANY MAX. SPACING 24.0"



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

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

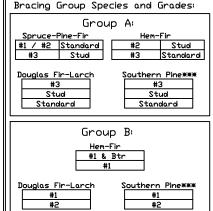
## Gable Stud Reinforcement Detail

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

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

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

						•						•		
		2x4 · Vertico	Brace	No	(1) 1×4 *L	" Brace *	(1) 2×4 *L	." Brace *	(2) 2×4 L	" Brace **	(1) 2x6 <b>"</b> L	" Brace *	(2) 2x6 *L	Brace **
	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
1		CDE	#1 / #2	4′ 1″	6′ 11″	7′ 2″	8′ 2 <b>″</b>	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″
<u> </u>	1.7	SPF	#3	3′ 10″	6′ 2″	6′ 7″	8′ 1″	8′ 5 <b>″</b>	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″
	ب	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″
>			Standard	3′ 10″	5′ 3 <b>″</b>	5′ 7″	7′ 0″	7′ 6″	9′ 6″	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
ן ש	_		#1	4′ 2″	7′ 0″	7′ 3″	8′ 3″	8′ 7″	9′ 10″	10′ 3″	13′ 0″	13′ 6″	14′ 0″	14′ 0″
	*	ISP	#2	4′ 1″	6′ 11″	7′ 2″	8′ 2″	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″
	4		#3	4′ 0″	5′ 7 <b>″</b>	5′ 11 <b>″</b>	7′ 5 <b>″</b>	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″
	N	IDFL	Stud	4′ 0″	5′ 7″	5′ 11″	7′ 5″	7′ 11″	9′ 8″	10′ 1″	11′ 7″	12′ 5″	14′ 0″	14′ 0″
ŭ		1	Standard	3′ 9″	4′ 11″	5′ 13 <b>″</b>	6′ 6″	7′ 0″	8′ 10″	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″
$\cup$		CDE	#1 / #2	4′ 8″	7′ 11″	8′ 3″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	-	SPF	#3	4′ 5 <b>″</b>	7′ 6″	8′ 3″	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
;	סיכ	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″
9	Ō		Standard	4′ 5 <b>″</b>	6′ 5 <b>″</b>	6′ 10 <b>″</b>	8′ 7 <b>″</b>	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
)			#1	4′ 10″	8′ 0 <b>″</b>	8′ 4″	9′ 6″	9′ 10″	11′ 3″	11′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
>		ISP	#2	4′ 8″	7′ 11″	8′ 3 <b>″</b>	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″
llωl	16	IDFL	Stud	4′ 7″	6′ 10 <b>″</b>	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
I	, ,		Standard	4′ 5 <b>″</b>	6′ 0 <b>″</b>	6′ 5″	8′ 0″	8′ 7″	10′ 10″	11′ 6″	12′ 7″	13′ 15″	14′ 0″	14′ 0″
		CDE	#1 / #2	5′ 2 <b>″</b>	8′ <b>9″</b>	9′ 1″	10′ 4″	10′ 9″	11′ 2″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	-	SPF	#3	4′ 10″	8′ 7″	8′ 11 <b>″</b>	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
9	U	HF	Stud	4′ 10″	8′ 7 <b>″</b>	8′ 11 <b>″</b>	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	1 11	Standard	4′ 10″	7′ 5 <b>″</b>	7′ 11″	9′ 11″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
$   \times  $			#1	5′ 4″	8′ 10 <b>″</b>	9′ 2″	10′ 5″	10′ 10″	12′ 5 <b>″</b>	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
ĉ	*	l SP	#2	5′ 2″	8′ 9 <b>″</b>	9′ 1″	10′ 4″	10′ 9″	12′ 3″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Ψ	ù		#3	5′ 0 <b>″</b>	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	10	IDFL	Stud	5′ 0 <b>″</b>	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
		l	Standard	4′ 10″	6′ 11″	7′ 4″	9′ 3″	9′ 10″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

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

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

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

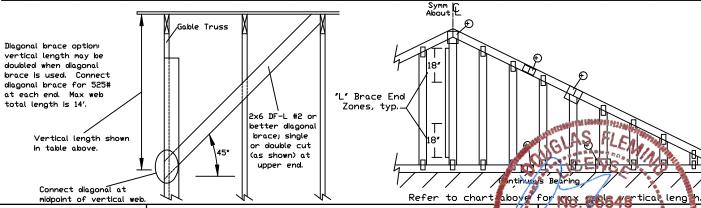
Attach 'L' braces with 10d (0.128'x3.0' min) nalls. ※ For (1) 'L' brace: space nalls at 2' o.c. in 18' end zones and 4' o.c. between zones. ※#For (2) 'L' braces: space nalls at 3' o.c. in 18' end zones and 6' o.c. between zones.

"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 design for							

peak, splice, and heel plates.

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



\*\*\*VARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING
\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Reference are in fabricating, handling, shipping, installing and bracing. Reference are represented by the state of the second state of t

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

MAX. TOT. LD. 60 PSF

ALPINE AN ITW COMPANY

514 Earth City Expressway Suite 242 Earth City, MO 63045 REF ASCE7-16-GAB14030
DATE 01/26/2018
DRWG A14030ENC160118
SF

# 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.

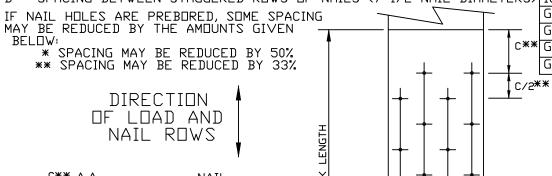
BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

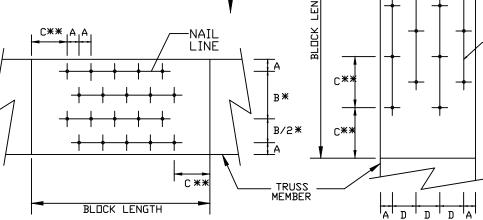
## LOAD PERPENDICULAR TO GRAIN

- 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

LOAD APPLIED PARALLEL

MMVARNINGMM READ AND FOLLOW ALL NOTES ON THIS DRAVING MMIMPORTANTMM FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLER:

Trusses require extreme care in fabricating, handling, shipping, installing into installing and bracing. Reference 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 po BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bo on, for shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of visions in the shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to each of truss and position as shown above and on the Joint Betalls, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional

engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the 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.iccsafe.org

## MINIMUM NAIL SPACING DISTANCES

		DIS	TANCES		
	NAIL TYPE	Α	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"	2"	1"
	12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	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 CDMMDN (0.131"X 2.5",MIN)	7/8"	1 5/8"	۵″	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"
)	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"	2"	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"

AND THE PERSONAL PROPERTY.

REF NAIL SPACE |DATE 10/01/14

DRWG CNNAILSP1014

NAIL

LINE

514 Earth City Expressway Suite 242

Earth City, MO 63045

# 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.

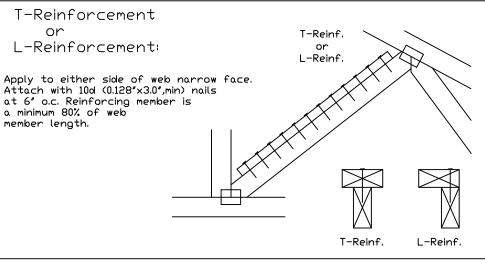
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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> )
5×8	1 row	2×6	1-2×8
5×8	2 rows		2-2×6( <del>*/</del> )

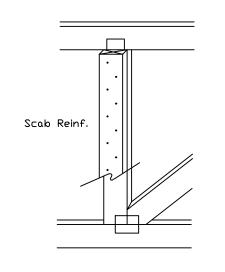
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



## Scab Reinforcement:

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



\*\*\*VARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAVING \*\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLER!

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

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

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

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional

TC LL **IREF** CLR Subst. TC DI DATE 01/02/19 BC DI DRWG BRCLBSUB0119 **PSF** BC II TOT. LD. PSF DUR. FAC. SPACING