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





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





Site Information:	Page 1:		
Customer: W. B. Howland Company, Inc.	Job Number: 22-6913		
Job Description: Lot 45 Jewel Lake			
Address: LAKE CITY, FL			

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.01.01A		
	JRef #: 1XcS2150016		
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 40.00		
Building Type: Closed			

This package contains general notes pages, 25 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	035.22.1709.33308	A01
3	035.22.1709.32276	A03
5	035.22.1709.34182	B01
7	035.22.1709.34057	B03
9	035.22.1709.33573	B05
11	035.22.1709.33307	B07
13	035.22.1709.32479	C02
15	035.22.1709.32542	D01
17	035.22.1709.32089	G01
19	035.22.1709.34385	HJ1
21	035.22.1709.34917	J2
23	035.22.1709.33370	J3
25	035.22.1709.33885	P02
27	A14030ENC160118	
29	GBLLETIN0118	

Item	Drawing Number	Truss
2	035.22.1709.33339	A02
4	035.22.1709.32652	A04
6	035.22.1709.34104	B02
8	035.22.1709.33245	B04
10	035.22.1709.33807	B06
12	035.22.1709.32932	C01
14	035.22.1709.32558	C03
16	035.22.1709.32495	D02
18	035.22.1709.34010	G02
20	035.22.1709.34229	J1
22	035.22.1709.33057	J2A
24	035.22.1709.32557	P01
26	A14015ENC160118	
28	BRCLBSUB0119	
30	PB160160118	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

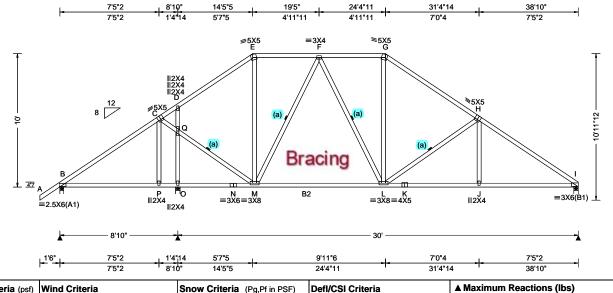
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

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

SEQN: 629556 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T20 DrwNo: 035.22.1709.33308 FROM: CDM Qty: 3 Lot 45 Jewel Lake Truss Label: A01 / WHK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.88 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.091 L 999 360 VERT(CL): 0.179 L 999 240 HORZ(LL): 0.043 J HORZ(TL): 0.084 J Creep Factor: 2.0 Max TC CSI: 0.857 Max BC CSI: 0.695 Max Web CSI: 0.711 VIEW Ver: 21.01.01A.0521.20	
Lumber		•	•	

		G	ravity		No	on-Grav	/ity
)	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
)	В	1277	/-	/-	/713	/187	/316
	0	757	/-	/-	/451	/137	/-
	1	1574	/-	/-	/901	/236	/-
	Win	d read	tions b	ased on I	MWFRS		
	В	Brg V	/idth =	3.5	Min Re	q = 1.5	;
	0	Brg W	/idth =	4.0	Min Re	q = 1.5	;
	1	Brg V	/idth =	4.0	Min Re	q = 1.9)
	Bea	rings I	3, O, &	I are a rig	gid surfac	e.	
	Mer	nbers	not liste	ed have f	orces less	s than 3	375#
	Max	cimum	Top C	hord Fo	rces Per	Ply (lb	s)
	Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.

F-G B - C 245 - 1623 382 - 1470 C-D 262 - 1491 G-H 390 - 1890 358 - 1660 388 - 2388 D-E H - I 347 - 1285

Top chord: 2x4 SP #2;

(a) Continuous lateral restraint equally spaced on

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

Loading

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

Purlins

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

Wind

10-0-0.

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is

02/04/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. (Comp.
B - P	1239	-96	M - L	1454	-51
P - O	1240	- 96	L-K	1887	- 220
O - N	1240	- 96	K - J	1887	- 220
N - M	1240	- 96	J - I	1888	- 219

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
Q - D	113 - 477	M - F	102	- 424
O - Q	123 - 574	L-G	596	- 55
E - M	559 - 55	L-H	218	- 525

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: 629557 / SPEC Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T28 / DrwNo: 035.22.1709.33339 FROM: CDM Qty: 3 Lot 45 Jewel Lake Page 1 of 2 Truss Label: A02 / YK 02/04/2022 14'5"5 31'4"14 38'6"8 7'5"2 7'0"4 4'11"11 4'11"11 7'0"4 7'1"10 ≢5X5 =3X4 **≥5**X5 Bracing 6*13 ||4X6(B2) N ∥2X4 M L ≡4X6≡3X8 =3X8≡4X5 ∥2X4 4X5(A2)

			A *		3	000						
		L_1\	6"_ _{-l_} 7'5"2 _ _{-l_}	7'0"4		9'11"6	-1-		7'0"4		_1_	
		Γ-	7'5"2	14'5"5		24'4"11	7		31'4"14	1	Т-	
Lo	oading (Criteria (psf)	Wind Criteria	Snow Criteria (F	Pg,Pf in PSF)	Defl/CSI Cr	iteria			۸N	laxim	um
TO	CLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA	CAT: NA	PP Deflection	on in loc L	/defl	L/#		-	rav
TO	CDL:	10.00	Speed: 130 mph	Pf: NA	Ce: NA	VERT(LL):	0.125 E	999	360	Loc	: R+	/1
В	CLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	A	VERT(CL):	0.245 E	999	240	В	1839	/-
В	CDL:	10.00	Risk Category: II	Snow Duration: N	IA	HORZ(LL):	0.061 I	-	-	H	1725	

HORZ(TL): 0.119 I Mean Height: 15.00 ft **Building Code:** Creep Factor: 2.0 TCDL: 5.0 psf FBC 7th Ed. 2020 Res. Max TC CSI: 0.692 BCDL: 5.0 psf TPI Std: 2014 Max BC CSI: 0.703 MWFRS Parallel Dist: h/2 to h Rep Fac: Yes Max Web CSI: 0.280 C&C Dist a: 3.85 ft Loc. from endwall: not in 9.00 ft FT/RT:20(0)/10(0)

Plate Type(s): GCpi: 0.18 VIEW Ver: 21.01.01A.0521.20 Wind Duration: 1.60 WAVE Loading

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

clearance. **Purlins**

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

Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

n Reactions (lbs) Non-Gravity avity R-/Rh /Rw /U /1057 /292 /313 1725 /-/957 /-/264 Wind reactions based on MWFRS В Brg Width = 4.0Min Rea = 2.2Brg Width = -Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 434 - 2648 424 - 1698 C - D 440 - 2163 F-G 440 - 2156 D-E 425 - 1701 G-H 428 - 2599

7'1"10 38'6"8

Maximu	Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.C	Comp.	Chords	Tens. (Comp.
B - N N - M M - L L - K	2099 2098 2098 1766	- 262 - 263 - 263 - 116	K - J J - I I - H	2051 2051 2051	- 259 - 259 - 258

Maximum Web Forces Per Ply (lbs) Tens.Comp. Webs Webs Tens. Comp. C-L 211 - 500 K-F 728 -80 D-L 736 K - G 206 - 447 - 80



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

Hanger specified assumes connection to supporting

Bearing at location x=38'3"8 uses the following support conditions: 38'3"8 Bearing H (38'3"8, 9'1"2) HUS26

Supporting Member: (3)2x8 SP 2400f-2.0E (14) 0.148"x3" nails into supporting

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

Soffit:

Des Ld:

NCBCLL: 10.00

Spacing: 24.0 "

Lumber

Load Duration: 1.25

40.00

2.00

Top chord: 2x4 SP #2;

Hangers / Ties

supporting girder.

Bot chord: 2x4 SP M-31; B1 2x4 SP #2; Webs: 2x4 SP #3;

(a) Continuous lateral restraint equally spaced on

Simpson Construction Hardware is specified based on

the most current information provided by Simpson

Strong-Tie catalog for additional information.

Strong-Tie. Please refer to the most recent Simpson

Recommended connection based on manufacturer

tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of

EXP: C Kzt: NA

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

SEQN: 629557 / SPEC Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T28 / Qty: 3 DrwNo: 035.22.1709.33339 FROM: CDM Lot 45 Jewel Lake Page 2 of 2 Truss Label: A02 / YK 02/04/2022

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0.

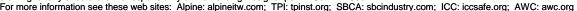


02/04/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

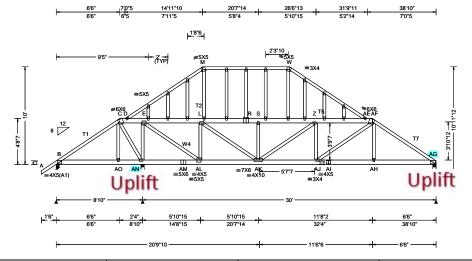
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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: 629578 / GABL Ply: 2 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T4 / Qty: 1 FROM: CDM DrwNo: 035.22.1709.32276 Lot 45 Jewel Lake Truss Label: A03 / YK 02/04/2022





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.085 AC 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.194 AC 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.018 M
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.040 M
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.222
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.178
Spacing: 24.0 "	C&C Dist a: 3.88 ft	Rep Fac: No	Max Web CSI: 0.631
' '	Loc. from endwall: not in 5.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20
Lumber		Loading	

ner Lo	ber	Lo
--------	-----	----

Top chord: 2x4 SP #2; T1,T7 2x4 SP M-31; T2, T5 2x6 SP 2400f-2.0E; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W4 2x4 SP #2;

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @11.75" o.c. Bot Chord: 1 Row @12.00" o.c. : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)						
TC: From	64 plf at	-1.50 to	64 plf at	6.50		
TC: From	32 plf at	6.50 to	32 plf at	32.33		
TC: From	64 plf at	32.33 to	64 plf at	38.83		
BC: From	5 plf at	-1.50 to	5 plf at	0.00		
BC: From	20 plf at	0.00 to	20 plf at	6.53		
BC: From	10 plf at	6.53 to	10 plf at	32.30		
BC: From	20 plf at	32.30 to	20 plf at	38.83		
TC: 234 lb	Conc. Load	at 6.53,32	.30			
TC: 178 lb	TC: 178 lb Conc. Load at 8.56,10.56,12.56,14.56					
16.56,18.56,20.27,22.27,24.27,26.27,28.27,30.27						
BC: 416 lb	Conc. Load	lat 6.53,32	.30			
BC: 121 lb	Conc. Load	lat 8.56,10	.56,12.56,1	4.56		

16.56,18.56,20.27,22.27,24.27,26.27,28.27,30.27

Plating Notes

All plates are 2X4 except as noted.

ading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind

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

Additional Notes

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

The overall height of this truss excluding overhang is

Gravity Non-Gravity Loc R+ /Rh /Rw /U В 119 /-171 AN 6312 /-/1209 /-AG 3452 /-/647 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 AN Brg Width = 4.0 Min Req = 2.2 AG Brg Width = 4.0 Min Req = 1.5Bearings B, AN, & AG are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

▲ Maximum Reactions (lbs)

B - C	508 - 91	R - S	258	- 1435
C - D	908 - 169	S - Z	259	- 1442
D-E	1656 - 320	W -AE	212	- 1025
D - M	205 - 995	Z -AE	353	- 1925
L-R	259 - 1441	AE-AF	498	- 2650
M - W	150 - 754	AF-AG	556	- 2879

/RL

Maximum Bot Chord Forces Per Ply (lbs)							
Chords	Tens.C	Comp.	Chords	Tens. 0	Comp.		
AO-AN	61	- 376	AK-AJ	2677	- 509		
AN-AM	136	- 762	AJ-AI	2330	- 449		
AM-AL	136	- 762	Al-AH	2330	- 449		
AL-AK	969	- 183	AH-AG	2339	- 448		

Maximum Web Forces Per Ply (lbs)							
Webs	Tens.Comp.	Webs	Tens. (Comp.			
C -AN	226 - 1134	L -AK	1514	- 280			
AN- E	411 - 1897	AK- Z	125	- 608			
E -AL	2078 - 376	AJ-AF	434	- 70			

273 - 1070

AL- L



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

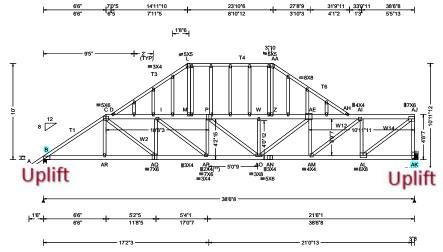
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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: 629579 / GABL Ply: 2 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T25 / Qty: 1 DrwNo: 035.22.1709.32652 FROM: CDM Lot 45 Jewel Lake Page 1 of 2 Truss Label: A04 / YK 02/04/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.166 S 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.373 S 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.051 E
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.114 E
NCBCLL: 0.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.313
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.257
Spacing: 24.0 "	C&C Dist a: 3.85 ft	Rep Fac: No	Max Web CSI: 0.816
	Loc. from endwall: not in 5.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20
Lumber		Plating Notes	

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1 2x4 SP M-31; T3, T4,T6 2x4 SP #2: Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W2,W12 2x4 SP #2; W14 2x4 SP M-31;

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @11.00" o.c. Bot Chord: 1 Row @12.00" o.c. :1 Row @ 4" o.c.

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

Special Loads -(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 64 plf at -1.50 to 64 plf at 6.50 32 plf at 5 plf at 20 plf at 32 plf at 5 plf at 20 plf at TC: From 6.50 to -1.50 to 38.54 0.00 BC: From 0.00 to BC: From 6.53 BC: From 10 plf at 6.53 to 10 plf at TC: 234 lb Conc. Load at 6.53

TC: 178 lb Conc. Load at 8.56,10.56,12.56,14.56 16.56,18.56,20.56,22.56,24.56,26.56,28.56,30.56 32.56,34.56,36.56

BC: 416 lb Conc. Load at 6.53

BC: 121 lb Conc. Load at 8.56,10.56,12.56,14.56 16.56,18.56,20.56,22.56,24.56,26.56,28.56,30.56 32.56,34.56,36.56

All plates are 2X4 except as noted.

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

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

02/04/2022

Manamannan Market COA #0278 ONAL

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 4787 /-/943 AK 5023 /-/-/-/968 Wind reactions based on MWFRS Brg Width = 4.0Min Rea = 2.0AK Brg Width = -Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 778 - 3966 C-D 781 - 4073 W - Z 587 - 3129 D-L 313 - 1557 Z-AE 589 - 3144 D - I 557 - 2932 AA-AH 311 - 1543 545 - 2869 598 - 3192 I - M AE-AH

Maximum Bot Chord Forces Per Ply (lbs)

233 - 1189

596 - 3178

I -AA

M - P

Chords	Tens.Comp.		Chords	Tens. (Comp.
B-AR	3256	- 633	AO-AN	4080	- 785
AR-AQ	3248	- 634	AN-AM	4080	- 785
AQ-AP	4141	- 799	AM-AL	3072	- 600
AP-AO	4364	- 832			

AH-AI

AI-AJ

773 - 4036

567 - 2926

Maximum Web Forces Per Ply (lbs)

vvebs	rens.Comp.		vvebs	i ens.	Comp.
C -AQ	1124	- 202	AM-AI	1259	- 226
AQ- I	157	- 509	Al-AL	491	- 2135
L - M	532	- 91	AL-AJ	3738	- 724
Z -AA	547	- 99	AJ-AK	492	- 2453
AF-AM	179	- 632			

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: 629579 / GABL Ply: 2 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T25 / FROM: CDM DrwNo: 035.22.1709.32652 Qty: 1 Lot 45 Jewel Lake Page 2 of 2 Truss Label: A04 / YK 02/04/2022

Hangers / Ties

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

Recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Additional connection required to evenly distribute hanger reaction throughout all plies of supporting girder.

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

Bearing at location x=38'3"8 uses the following Bearing At location x=30 5 o uses the follows support conditions: 38'3"8 Bearing AK (38'3"8, 91"2) HGUS28-2 Supporting Member: (3)2x8 SP 2400f-2.0E (36) 0.148"x3" nails into supporting member, (12) 0.148"x3" nails into supported member.

Wind

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

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

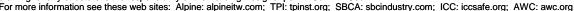
The overall height of this truss excluding overhang is



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

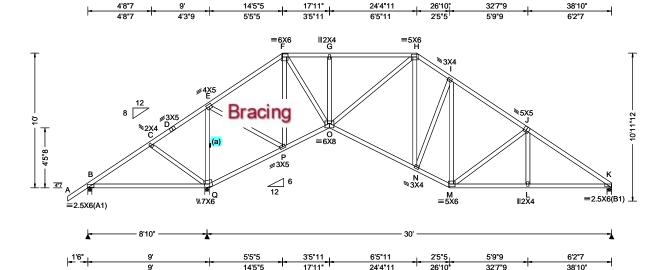
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, 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: 629558 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T32 / FROM: CDM DrwNo: 035.22.1709.34182 Qty: 2 Lot 45 Jewel Lake Truss Label: B01 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.055 N 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.118 N 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.039 L
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.082 L
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.499
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.548
Spacing: 24.0 "	C&C Dist a: 3.88 ft	Rep Fac: Yes	Max Web CSI: 0.946
-	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20
Lumber			

	▲ Maximum Reactions (lbs)							
		G	ravity		No	n-Gra	vity	
)	Loc	R+	/ R-	/ Rh	/ Rw	/U	/ RL	
)	В	243	/-180	/-	/50	/15	/316	
	Q	2232	/-	/-	/1343	/87	/-	
	K	1144	/-	/-	/759	/42	/-	
	Win	d reac	tions ba	sed on	MWFRS			
	В	Brg W	/idth = 3	3.5	Min Red	q = 1.:	5	
	Q	Brg W	/idth = 4	1.0	Min Red	q = 2.0	6	
	K	Brg W	/idth = 4	1.0	Min Red	q = 1.	5	
	Bearings B, Q, & K are a rigid surface.							
	Members not listed have forces less than 375#							
_	Max	cimum	Top C	hord Fo	orces Per	Ply (lk	os)	
	Cho	ords T	ens.Co	mp.	Chords	Tens.	Comp.	

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

Purlins

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

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 -180# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is

B-C	645 - 69	G - H	53	- 1053
C-D	733 -71	H-I	146	- 1146
D - E	827 - 60	I - J	130	- 1254
E-F	72 - 578	J - K	91	- 1695
F-G	53 - 1053			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp	
B - Q	131	- 497	N - M	1084	0
Q - P	152	- 756	M - L	1325	-8
P - O	453	- 61	L-K	1327	-7
N - C	1062	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.		
E-Q	110 - 1	573	F-O	1200	0	
E - P	1167	0	M - J	95	- 464	
E D	16 1	വ				



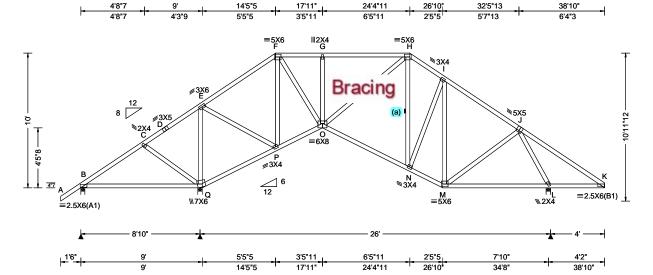
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629559 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T24 / FROM: CDM DrwNo: 035.22.1709.34104 Qty: 4 Lot 45 Jewel Lake Truss Label: B02 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h	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	PP Deflection in loc L/defl L/# VERT(LL): 0.037 G 999 360 VERT(CL): 0.079 G 999 240 HORZ(LL): 0.029 L HORZ(TL): 0.063 L Creep Factor: 2.0 Max TC CSI: 0.564 Max BC CSI: 0.538	Gravity Loc R+ /R- /Rh /
Spacing: 24.0 "	C&C Dist a: 3.88 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max Web CSI: 0.932 VIEW Ver: 21.01.01A.0521.20	Bearings B, Q, & L are a rigid of Members not listed have forced Maximum Top Chord Forces Chords Tens.Comp. Chords
Lumber				C-D 448 -81 G-F

Loc	: R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	331	/-14	/-	/129	/80	/316
Q	1847	/-	/-	/1190	/-	/-
L	1380	/-	/-	/1003	/-	/-
Wir	nd read	tions ba	sed on	MWFRS		
В	Brg W	/idth = 3	3.5	Min Red	q = 1.	5
Q	Brg W	/idth = 4	1.0	Min Red	j = 2.	2
L	Brg W	/idth = 4	1.0	Min Red	j = 1.	5
Bea	arings E	3, Q, &	L are a ı	rigid surfac	e.	
Me	mbers	not liste	d have f	forces less	than	375#
Ma	ximum	Top C	hord Fo	rces Per	Ply (II	os)
Ch	ords T	ens.Co	mp.	Chords	Tens.	. Comp.

Non-Gravity

C-D G - H - 929 -81 D-E 542 - 70 H - I - 852 E-F - 606 0 I - J -869 0 - 929 .I - K 425 - 57

Bracing

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

Purlins

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

Wind

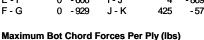
Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0.



Tens. Comp. Chords Tens.Comp. Chords Q-P 44 N - M 718 P - O 481 - 60 M - I 401 0 O - N 785 0

Maximum Web Forces Per Ply (lbs) Webs Webs Tens.Comp. Tens. Comp. E - Q 951

M - I

0 - 402

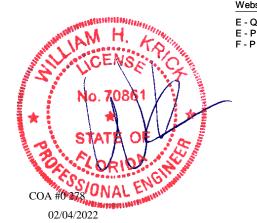
- 1342

0

- 783

925

0



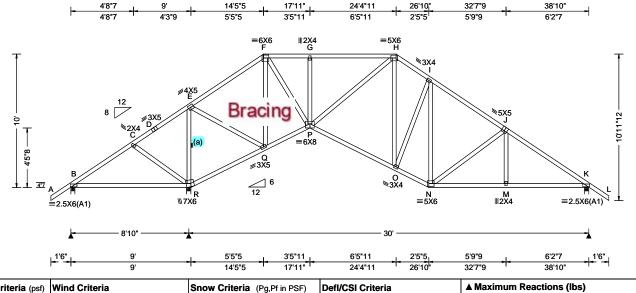
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629560 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T3 / FROM: CDM DrwNo: 035.22.1709.34057 Qty: 2 Lot 45 Jewel Lake Truss Label: B03 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.88 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.056 O 999 360 VERT(CL): 0.119 O 999 240 HORZ(LL): 0.038 M HORZ(TL): 0.081 M Creep Factor: 2.0 Max TC CSI: 0.498 Max BC CSI: 0.548 Max Web CSI: 0.945 VIEW Ver: 21.01.01A.0521.20	
Lumber				

Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
В	241	/-183	/-	/46	/24	/335
R	2233	/-	/-	/1355	/68	/-
Κ	1250	/-	/-	/855	/56	/-
Wi	nd read	tions ba	sed on	MWFRS		
В	Brg V	/idth = 3	3.5	Min Re	q = 1.5	5
R	Brg V	/idth = 4	1.0	Min Re	q = 2.6	3
Κ	Brg V	/idth = 4	1.0	Min Re	q = 1.5	5
Bea	arings I	3, R, & I	K are a ı	igid surfa	ce.	
Ме	mbers	not liste	d have f	orces less	than :	375#
Ma	ximum	Top C	hord Fo	rces Per	Ply (lb	s)
Ch	ords T	ens.Co	mp.	Chords	Tens.	Comp.

Non-Gravity

Gravity

B-C	651	-77	G-H	45	- 1044
C - D	739	- 78	H - I	147	- 1138
D - E	833	- 67	I - J	133	- 1243
E-F	74	- 571	J - K	92	- 1671
F 0	45	4044			

Bracing

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

(a) Continuous lateral restraint equally spaced on

Purlins

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

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 -183# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0.

Maximu	m Bot Chord	Forces Per	Ply (lbs)
Chords	Tens.Comp.	Chords	Tens. Com

Onlords	10113.0	onip.	Onlords	10113. 0	Jilip.
B - R	137	- 502	O - N	1075	0
R - Q	158	- 762	N - M	1301	0
Q - P	446	- 101	M - K	1302	0
P - O	1053	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Co	mp.	Webs	Tens. (Comp.
E-R	87 - 1	1571	F-P	1194	0
E-Q	1166	0	N - J	91	- 443
F - O	0 1	1007			



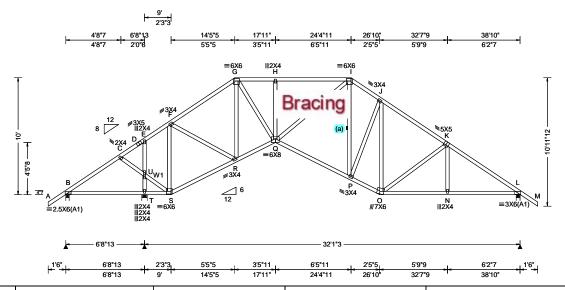
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629561 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T31 / FROM: CDM Qty: 1 DrwNo: 035.22.1709.33245 Lot 45 Jewel Lake Truss Label: B04 / YK 02/04/2022



Loading Criteria (psf) V	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.88 ft	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0)	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.144 H 999 360 VERT(CL): 0.294 H 999 240 HORZ(LL): 0.093 N - - HORZ(TL): 0.196 N - - Creep Factor: 2.0 - - Max TC CSI: 0.743 - - Max Web CSI: 0.845 - -	
	GCpi: 0.18	Plate Type(s): WAVE	VIEW Ver: 21.01.01A.0521.20	N C

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 939 /561 /335 987 /632 1586 /-/1002 /49 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5В Brg Width = 5.7 Min Req = 1.5 Brg Width = 4.0 Min Rea = 1.9Bearings B, T, & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

G - H

H - I

I-J

.I - K

K - I

- 2370

133 - 1826

120 - 1838

105

105 - 2370

80 - 2251

Lumber

Top chord: 2x4 SP #2;

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

(a) Continuous lateral restraint equally spaced on

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0



02/04/2022

Maximum Bot Chord Forces Per Ply (lbs)

92 - 1142

81 - 1138

84 - 1079

107 - 1331

109 - 1974

B - C

C-D

D-E

F-F F-G

Chords	Tens.C	comp.	Chords	Tens. Co	omp.
B - T	854	- 193	Q-P	1688	0
T - S	854	- 193	P-0	1627	0
S - R	1153	- 143	O - N	1780	0
R-Q	1760	- 46	N - L	1782	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens. (Comp.
U-E	30	- 500	G-Q	1452	0
T - U	41	- 752	Q - I	1138	- 75
F-S	36	- 818	O - J	36	- 398
F-R	676	0	0 - K	95	- 422
G-R	0	- 488			

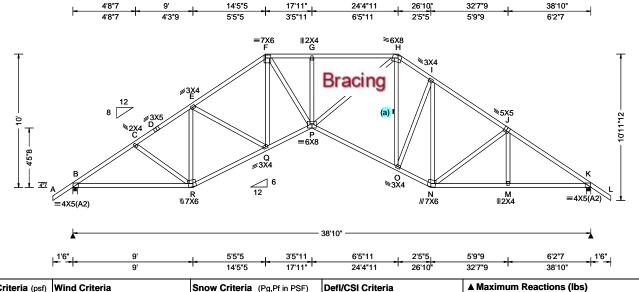
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629562 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T7 / FROM: CDM DrwNo: 035.22.1709.33573 Qty: 1 Lot 45 Jewel Lake Truss Label: B05 / YK 02/04/2022



TCLL: 20.00
Wind Duration: 1.60 WAVE VIEW Ver: 21.01.01A.0521.20

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on

Purlins

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

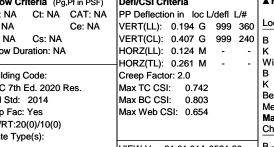
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0



Loc R+ /Rh /Rw /U /RL 1758 /-/1085 /36 /335 1754 /1081 /-Wind reactions based on MWFRS Brg Width = 4.0Min Rea = 2.1Brg Width = 4.0 Min Req = 2.1Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 74 - 2548 - 3040 C-D 56 - 2327 H - I 111 - 2171 D-E 74 - 2269 I-J 100 - 2137 E-F 110 - 2684 J - K 60 - 2542

Non-Gravity

Gravity

F-G

Maximum Bot Chord Forces Per Ply (lbs)

104 - 3040

Chords	Tens.Comp.		Chords	Tens. Co	omp.
3 - R	2042	- 131	O - N	1904	0
₹ - Q	2124	- 84	N - M	2021	0
Q - P	2410	-7	M - K	2023	0
- O	2007	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (Comp.
E-R	61	- 684	N - I	29	- 525
F-P	1621	0	N - J	98	- 411
P - H	1633	- 46			



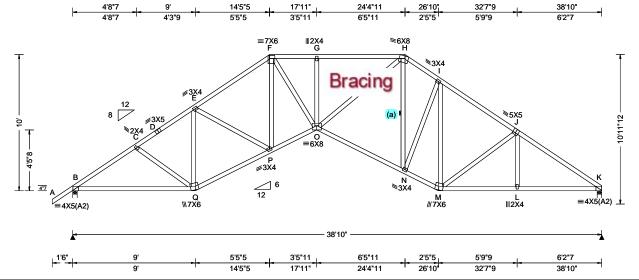
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629563 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T33 / FROM: CDM DrwNo: 035.22.1709.33807 Qty: 3 Lot 45 Jewel Lake Truss Label: B06 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Τ
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.88 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	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)/10(0) Plate Type(s):	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.192 G 999 360 VERT(CL): 0.407 G 999 240 HORZ(LL): 0.124 L HORZ(TL): 0.261 L Creep Factor: 2.0 Max TC CSI: 0.743 Max BC CSI: 0.803 Max Web CSI: 0.648	П
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	

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

Bracing

(a) Continuous lateral restraint equally spaced on

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details. The overall height of this truss excluding overhang is 10-0-0

Defl/CSI Criteria			▲ Maximum Reactions (lbs)					
PP Deflection in loc L/defl L/#			(Gravity		` No	n-Gra	vity
VERT(LL): 0.192 G 999		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/
VERT(CL): 0.407 G 999	240	В	1760	/-	/-	/1085	/37	/3
HORZ(LL): 0.124 L -	-	ĸ	1649	/-	/-	/989	/26	/-
HORZ(TL): 0.261 L -	-	Win	nd rea	ctions b	ased on	MWFRS		
Creep Factor: 2.0		В	Brg \	Width =	4.0	Min Re	q = 2.	1
Max TC CSI: 0.743		K	Brg \	Width =	4.0	Min Re	q = 1.9	9
Max BC CSI: 0.803		Bea	arings	B&Ka	are a rigi	d surface.		
Max Web CSI: 0.648		Mer	mbers	not list	ed have	forces less	than	375
Wax Web CSI. 0.046		Maximum Top Chord Forces Per Pl			Ply (lb	os)		
		Cho	ords	Tens.Co	omp.	Chords	Tens.	Ċc
VIEW Ver: 21.01.01A.0521.20		В-	С	75 -	2552	G-H	132	: -:

C-D

D-E

E-F

F-G

Maximum	Rot Chr	ard Farce	s Par Pi	v (lhe)

57 - 2332

75 - 2273

126 - 2690

132 - 3048

Chords	Tens.Comp.		Chords	Tens. Co	omp.
B - Q	2045	- 148	N - M	1913	0
Q - P	2128	- 107	M - L	2045	0
P - O	2415	- 40	L-K	2047	0
N - C	2014	0			

/RL

/316

Tens. Comp.

101 - 2147

132 - 3048

115 - 2179

63 - 2566

have forces less than 375#

H - I

I-J

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. (Comp.
E-Q	75	- 686	M - I	32	- 519
F - O	1627	0	M - J	101	- 432
O - H	1634	- 70			



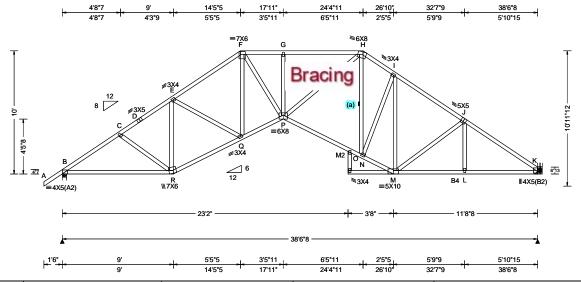
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629564 / SPEC Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T8 / FROM: CDM Qty: 1 DrwNo: 035.22.1709.33307 Lot 45 Jewel Lake Truss Label: B07 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.85 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.193 G 999 360 VERT(CL): 0.408 G 999 240 HORZ(LL): 0.126 L HORZ(TL): 0.266 L Creep Factor: 2.0 Max TC CSI: 0.740 Max BC CSI: 0.801 Max Web CSI: 0.663 VIEW Ver: 21.01.01A.0521.20	Lo

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; B4 2x4 SP M-31; Webs: 2x4 SP #3; M2 2x4 SP #2;

Filler: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Plating Notes

All plates are 2X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

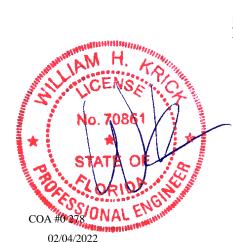
Laterally brace BC at 24" oc in lieu of rigid ceiling. Laterally brace BC above filler at 24" oc.

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

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



Maximum Reactions (lbs) Gravity Non-Gravity oc R+ /Rh /Rw /U /RL 1751 /-/1077 /39 /313 /-/971 /-1633 Vind reactions based on MWFRS Brg Width = 4.0Min Rea = 2.1Brg Width = -Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) chords Tens.Comp. Chords Tens. Comp.

80 - 2538 - 3020 C - D 62 - 2317 H - I 121 - 2150 D-E 80 - 2258 I-J 105 - 2111 E-F 135 - 2668 J - K 64 - 2474 F-G 143 - 3020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B - R	2033	- 154	O - N	1917	0
R - Q	2114	- 114	N - M	1874	0
Q - P	2396	- 49	M - L	1958	0
P - O	1986	0	L-K	1958	0

Maximum Web Forces Per Ply (lbs)

Vebs	Tens.C	comp.	Webs	Ťens. (s. Comp.	
- R	79	- 679	P-H	1631	-74	
- P	1608	- 3	M - I	34	- 532	

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

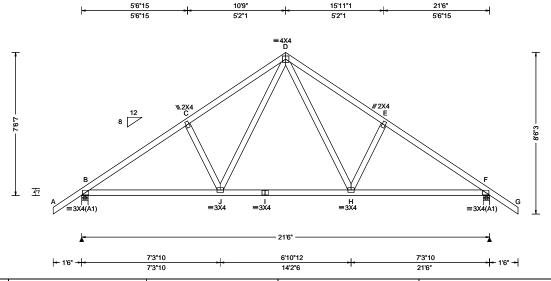
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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



SEQN: 629565 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T1 / FROM: CDM Qty: 11 DrwNo: 035.22.1709.32932 Lot 45 Jewel Lake Truss Label: C01 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.039 J 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.076 J 999 240	B 1068 /- /- /622 /166 /251
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 H	F 1068 /- /- /512 /166 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.033 H	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	B Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.302	F Brg Width = 4.0 Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.528	Bearings B & F are a rigid surface.
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.195	Members not listed have forces less than 375#
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	B-C 227 - 1374 D-E 286 - 122 C-D 286 - 1228 E-F 227 - 137
Lumber				-C-D 200 - 1220 E-F 221 - 131

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

Loading

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	Tens. Comp		
3 - J	1065	- 81	I-H	724	0	
J - I	724	0	H-F	1065	- 81	

Maximum Web Forces Per Ply (lbs)

Nebs	Tens.Comp.		Webs	Tens. C	omp.
J - D	511	- 99	D-H	510	- 99



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

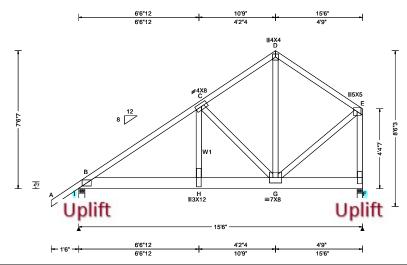
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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: 629580 / COMN Ply: 3 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T11 / DrwNo: 035.22.1709.32479 FROM: CDM Qty: 1 Lot 45 Jewel Lake Truss Label: C02 / YK 02/04/2022

3 Complete Trusses Required



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 5428 /-/975 /-/-/1100 /-7719 Wind reactions based on MWFRS Brg Width = 4.0Min Req = 1.5 Brg Width = 3.5 Min Req = 2.1Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 539 - 3013 273 - 1620

Lumbei

Top chord: 2x4 SP #2; Bot chord: 2x8 SP 2400f-2.0E; Webs: 2x4 SP #3; W1 2x4 SP #2;

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 2 Rows @ 4.00" o.c. (Each Row) Webs : 1 Row @ 4" o.c. Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting

Special Loads

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) -1.50 to TC: From 64 plf at 64 plf at BC: From 5 plf at -1.50 to 5 plf at 0.00 BC: From BC: From 20 plf at 0.00 to 20 plf at 6.56 10 plf at 6.56 to 10 plf at 15.50 BC: 5023 lb Conc. Load at 6.56 1725 lb Conc. Load at 8.56,10.56,12.56 BC: 1633 lb Conc. Load at 14.56

Wind

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

Additional Notes

The overall height of this truss excluding overhang is 7-6-7.



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

273 - 1618

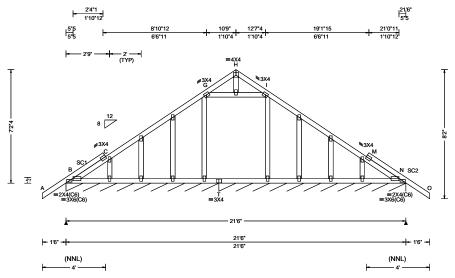
Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Tens. Comp. Chords 2477 - 437 H-G 2449 - 432

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp. H-C 1711 - 283 1839 - 329 G - E 308 - 1623 - 2013 C - G E - F 342 D - G 1664 - 256

SEQN: 629566 / GABL Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T2 / Qty: 1 FROM: CDM DrwNo: 035.22.1709.32558 Lot 45 Jewel Lake Truss Label: C03 / YK 02/04/2022



Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria
g: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
Pf: NA Ce: NA	VERT(LL): 0.002 H 999 360
.u: NA Cs: NA	VERT(CL): 0.005 H 999 240
Snow Duration: NA	HORZ(LL): 0.001 L
	HORZ(TL): 0.002 L
Building Code:	Creep Factor: 2.0
BC 7th Ed. 2020 Res.	Max TC CSI: 0.268
PI Std: 2014	Max BC CSI: 0.106
Rep Fac: Varies by Ld Case	Max Web CSI: 0.117
T/RT:20(0)/10(0)	
Plate Type(s):	
VAVE	VIEW Ver: 21.01.01A.0521.20
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: Varies by Ld Case T/RT:20(0)/10(0) late Type(s):

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL B* 129 /67 /11 105 /54 /-Wind reactions based on MWFRS Brg Width = 116 Min Rea = -Brg Width = 142 Min Reg = -Bearings B & T are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Stack Chord: SC2 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is 7-2-4.



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.

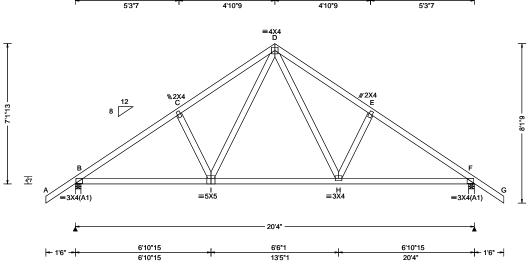


SEQN: 629567 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T6 / FROM: CDM DrwNo: 035.22.1709.32542 Qty: 2 Lot 45 Jewel Lake Truss Label: D01 / YK 02/04/2022

15'0"9

20'4"

10'2"



TCLL: 20.00 Wind Std: ASCE 7-16 Pg: TCDL: 10.00 Speed: 130 mph Pf: N		PP Deflection in loc L/defl L/# VERT(LL): 0.035 H 999 360	١,
EXP: C Kzt: NA Built	lding Code: C 7th Ed. 2020 Res. Std: 2014 D Fac: Yes RT:20(0)/10(0) te Type(s):	VERT(CL): 0.068 H 999 240 HORZ(LL): 0.015 H HORZ(TL): 0.029 H Creep Factor: 2.0 Max TC CSI: 0.282 Max BC CSI: 0.477 Max Web CSI: 0.180 VIEW Ver: 21.01.01A.0521.20	

5'3"7

	▲ M	axim	um Rea	ections	(lbs)			
		(Gravity		N	on-Grav	vity	
0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
)	В	1011	/-	/-	/594	/158	/240	
	F	1011	/-	/-	/594	/158	/-	
	Win	d rea	ctions b	ased o	n MWFRS			
	В	Brg \	Width =	3.5	Min Re	Min Req = 1.5		
	F Brg Width = 3.5				Min Re	Min Req = 1.5		
	Bea	rings	B&Fa	re a rig	id surface.			
	Mer	nbers	not liste	ed have	e forces les	s than 3	375#	
	Maximum Top Chord Forces Per Ply (lbs)							
	Cho	rds	Tens.Co	omp.	Chords	Tens.	Comp.	
_	В-	С	213 -	1282	D-E	269	- 1145	
	l c -	-	-	1144		213	- 1283	

Lumber

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

Loading

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)								
Chords Tens.Comp.			Chords	Tens.	Comp.			
B - I	992	- 93	H-F	993	- 73			
I-H	676	- 21						

Maximum Web Forces Per Ply (lbs) Tens.Comp. Tens. Comp. Webs Webs I - D 473 471 D-H - 93



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

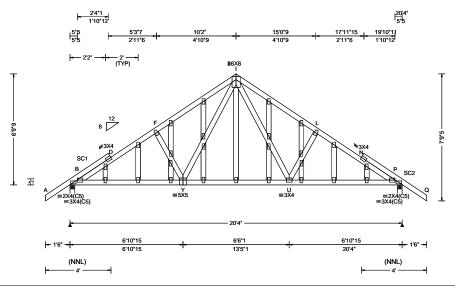
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629568 / GABL Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T9 / DrwNo: 035.22.1709.32495 FROM: CDM Qty: 1 Lot 45 Jewel Lake Truss Label: D02 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.047 AA 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.105 AA 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.023 D
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.053 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.441
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.531
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.333
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

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

Α	PP Deflection	onin k	oc L/	defi L	<i>J</i> #			
	VERT(LL):	0.047	AA	999	360	L		
	VERT(CL):							
	HORZ(LL):	0.023	D	-	-	Р		
	HORZ(TL):	0.053	D	-	-	W		
	Creep Factor: 2.0							
	Max TC CSI	l: 0.4	141			Р		
						D		

		(Gravity		Non-Gravity			
o	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
o	В	1176	· /-	/-	/617	/-	/107	
۱	Р	1176	· /-	/-	/617	/-	/-	
۱	Win	d rea	ctions b	oased or	n MWFRS	;		
۱	В	Brg '	Width =	3.5	Min R	eq = 1.	5	
۱	Р	Brg '	Width =	3.5	Min R	eq = 1.	5	
۱	Bearings B & P are a rigid surface.							
۱	Members not listed have forces less than 375#							
۱	Maximum Top Chord Forces Per Ply (lbs)							
	Cho	rds	Tens.C	omp.	Chords	Tens.	. Comp.	
1	B - I	D	0	- 442	I-L	c	- 1392	
	B - I	_	ő-	1165	L - N	č		
	D - I	F	0 -	1513	N - P	Ċ	- 442	
	F - I		0 -	1391	N - P	Ċ	- 1165	

▲ Maximum Reactions (lbs)

Maximum Bot Chord Forces Per Ply (lbs)							
Chords Tens.Comp.			Chords	Tens. Comp.			
B-Y	1263	0	II-P	1263	0		

Y - U

828

Maximum Web Forces Per Ply (lbs)							
Webs	Tens.C	omp.	Webs	Tens. (Comp.		
F-Y	0	- 406	I - U	542	0		
Y - I	540	0	U - L	0	- 403		



02/04/2022

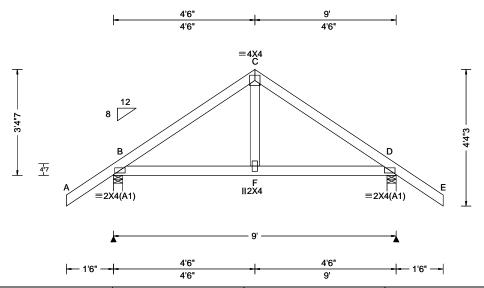
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629569 / COMN Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T10 / FROM: CDM DrwNo: 035.22.1709.32089 Qty: 1 Lot 45 Jewel Lake Truss Label: G01 / YK 02/04/2022



Loading Criteria (psf) Win	ind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	s)
TCLL: 20.00 Wir		, -	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00 Spe	peed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.004 F 999 360	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 End	nclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.008 F 999 240	B 481 /- /-	/319 /82 /135
		Snow Duration: NA	HORZ(LL): 0.002 F	D 481 /- /-	/230 /82 /-
Dec d: 40.00	KP: C Kzt: NA		HORZ(TL): 0.003 F	Wind reactions based on M	WFRS
NCDCLL, 40.00	ean Height: 15.00 ft CDL: 5.0 psf	Building Code:	Creep Factor: 2.0	B Brg Width = 3.5	Min Req = 1.5
0-46.4	CDL: 5.0 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.178	3	Min Req = 1.5
I		TPI Std: 2014	Max BC CSI: 0.182	Bearings B & D are a rigid s	
1		Rep Fac: Yes	Max Web CSI: 0.072	Members not listed have for Maximum Top Chord Fore	
•		FT/RT:20(0)/10(0)		-	chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		· · · · · ·	
Wir	ind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	B-C 73 -395 C	- D 73 - 395
Lumban					

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



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.

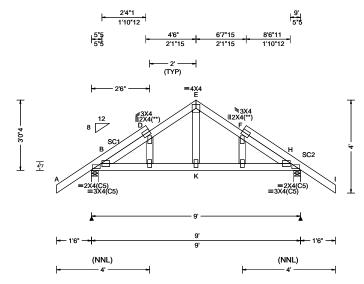
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

Ply: 1 Qty: 1

Job Number: 22-6913 Lot 45 Jewel Lake Truss Label: G02

Cust: R 215 JRef: 1XcS2150016 T19 / DrwNo: 035.22.1709.34010 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.012 F 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.024 F 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.006 D
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.012 D
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.299
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.212
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.069
' •	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20

▲ M	▲ Maximum Reactions (Ibs)						
Gravity					on-Grav	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
В	545	/-	/-	/351	/117	/107	
Н	545	/-	/-	/351	/117	/-	
Win	d rea	actions b	ased o	n MWFRS			
В	Brg	Width =	3.5	Min Re	eq = 1.5	5	
Н	Brg	Width =	3.5	Min Re	q = 1.5	5	
Bea	rings	в&На	re a rig	jid surface.	-		
Men	nber	s not liste	ed have	e forces les	s than 3	375#	
Maximum Top Chord Forces Per Ply (lbs)							
Cho	rds	Tens.Co	mp.	Chords	Tens.	Comp.	
D - I	E	0	403	E-F	0	- 403	

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is



02/04/2022

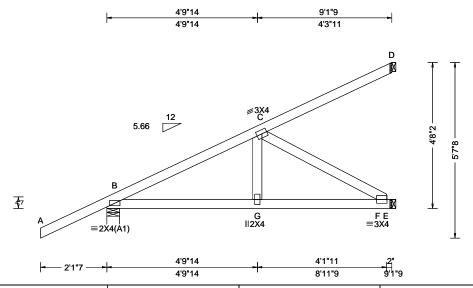
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629577 / HIP_ Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T15 / FROM: CDM DrwNo: 035.22.1709.34385 Qty: 3 Lot 45 Jewel Lake Truss Label: HJ1 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case	DefI/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.010 G 999 360 VERT(CL): 0.022 G 999 240 HORZ(LL): 0.003 F HORZ(TL): 0.007 F Creep Factor: 2.0 Max TC CSI: 0.414 Max BC CSI: 0.424 Max Web CSI: 0.245	
Opacing. 2 1.0	Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 21.01.01A.0521.20	N

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

Special Loads

--(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From TC: From -0 plf at -2.12 to 0.00 to 62 plf at 0.00 2 plf at 0 plf at 2 plf at 9 13 BC: From 4 plf at -2.12 to 0.00 20 plf at 0.00 to BC: From 20 plf at 3.50 2 plf at 3.50 to 86 lb Conc. Load at 3.50 229 lb Conc. Load at 6.33 78 lb Conc. Load at 3.50 TC: TC: BC: BC: 160 lb Conc. Load at 6.33

Wind

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

Additional Notes

The overall height of this truss excluding overhang is

▲ Maximum Reactions (lbs) Gravity Loc R+ В 372 Е 295 /-57 Wind reactions based on MWFRS Brg Width = 4.9 Brg Width = 1.5 Brg Width = 1.5 Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

B - C 123 - 520

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - G 464 - 108 G-F 456 - 110

/Rh

/-

Non-Gravity

/57 /-

/29

Min Req = 1.5

Min Req = -

Min Rea = -

/RL

/-

/Rw / U

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. C-F 127 - 528



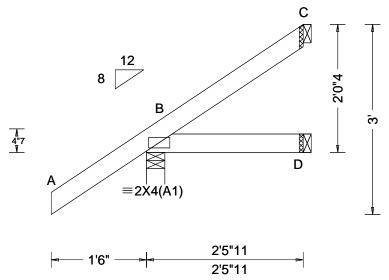
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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: 629571 / JACK Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T13 / FROM: CDM DrwNo: 035.22.1709.34229 Qty: 6 Lot 45 Jewel Lake Truss Label: J1 / YK 02/04/2022



▲ M	▲ Maximum Reactions (lbs)							
Gravity				No	on-Gra	vity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
В	253	/-	/-	/193	/32	/85		
D	39	/-	/-	/27	/-	/-		
С	43	/-	/-	/33	/32	/-		
Wir	nd read	ctions b	ased on N	MWFRS				
В	Brg V	Vidth =	3.5	Min Req = 1.5				
D	Brg V	Vidth =	1.5	Min Re	Min Reg = -			
С	Brg V	Vidth =	1.5	Min Re	q = -			
Bearing B is a rigid surface.								
Members not listed have forces less than 375#						375#		

Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-0-4.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

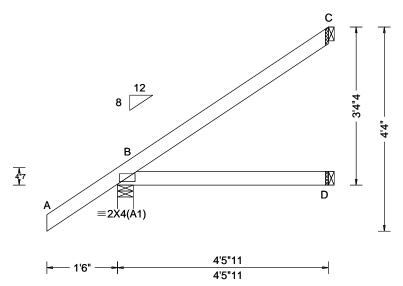
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629572 / JACK Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T12 / FROM: CDM DrwNo: 035.22.1709.34917 Qty: 5 Lot 45 Jewel Lake Truss Label: J2 / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 D
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.005 D
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.244
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.185
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20
Lumbor			

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 319 /-/228 /132 D 80 /-/47 115 /82 Wind reactions based on MWFRS Brg Width = 4.0 Min Req = 1.5 Brg Width = 1.5 Min Req = -Brg Width = 1.5 Min Req = -Bearing B is a rigid surface. Members not listed have forces less than 375#

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-4-4.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

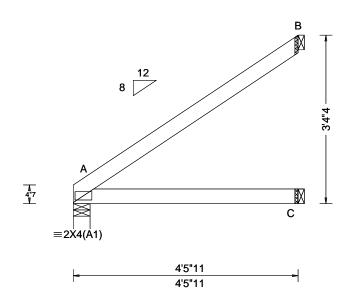
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629573 / JACK Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T16 / FROM: CDM DrwNo: 035.22.1709.33057 Qty: 1 Lot 45 Jewel Lake Truss Label: J2A / YK 02/04/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (Ib	s)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res.	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.004 C HORZ(TL): 0.009 C Creep Factor: 2.0 Max TC CSI: 0.298	Gravity Loc R+ /R- /Rh A 194 /- /- C 84 /- /- B 127 /- /- Wind reactions based on M	Non-Gravity / Rw / U / RL /120 /- /104 /51 /- /- /93 /74 /-
Load Duration: 1.25 Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max BC CSI: 0.203 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20	B Brg Width = 1.5 Bearing A is a rigid surface. Members not listed have fo	Min Req = -

Lumber

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

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-4-4.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

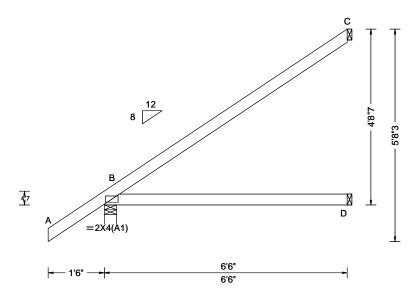
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629574 / **EJAC** Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T14 / FROM: CDM DrwNo: 035.22.1709.33370 Qty: 30 Lot 45 Jewel Lake Truss Label: J3 / YK 02/04/2022



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.010 D HORZ(TL): 0.021 D
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	, ,	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	· '

▲ Maximum Reactions (lbs)						
	G	ravity	-	No	n-Grav	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
В	397	/-	/-	/275	/19	/180
D	121	/-	/-	/69	/-	/-
С	178	/-	/-	/129	/105	/-
Win	d read	tions b	ased on I	MWFRS		
В	Brg V	Vidth =	4.0	Min Re	q = 1.5	;
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bearing B is a rigid surface.						
Mer	nbers	not liste	ed have f	orces less	than 3	375#

Lumber

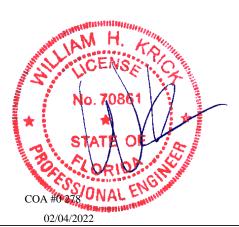
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-8-7.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

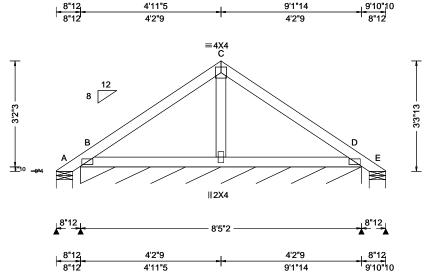
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629575 / GABL Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T23 / FROM: CDM DrwNo: 035.22.1709.32557 Qty: 20 Lot 45 Jewel Lake Truss Label: P01 / YK 02/04/2022



			I	$\overline{}$
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 F 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 F 999 240	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 F	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 F	
NCBCLL: 10.00	Mean Height: 20.76 ft TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.194	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.088	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.025	
' '	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	
Lumber	•	-		_

▲ Maximum Reactions (lbs), or *=PLF								
	Gravity		No	on-Grav	/ity			
Loc F	R+ /R-	/ Rh	/ Rw	/ U	/ RL			
Α -	/-99	/-	/97	/142	/92			
B* 10	0 /-	/-	/73	/15	/-			
E -	/-99	/-	/47	/91	/-			
В	/-112							
Wind I	eactions b	ased on N	MWFRS					
A B	rg Width =	5.9	Min Re	q = 1.5	,			
B B	rg Width =	101	Min Re	q = -				
E B	rg Width =	5.9	Min Re	q = 1.5	;			
Bearings A, B, & E are a rigid surface.								
Memb	ers not liste	ed have fo	orces les	s than 3	375#			

Lumber

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

Plating Notes

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

Loading

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

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 13-3-13.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

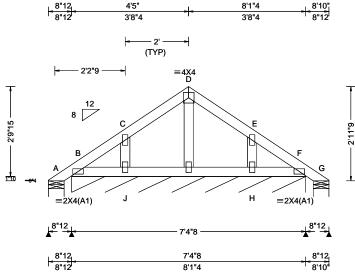
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 629576 / GABL Ply: 1 Job Number: 22-6913 Cust: R 215 JRef: 1XcS2150016 T73 / FROM: CDM DrwNo: 035.22.1709.33885 Qty: 2 Lot 45 Jewel Lake Truss Label: P02 KD / YK 02/04/2022



Loading Criteria (ps	f) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	4
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	١.
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 D 999 360	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 D 999 240	1
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 E	1
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 20.59 ft		HORZ(TL): 0.001 E	1
NCBCLL: 10.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	١
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.050	ľ
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.020	П
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.024	Tì
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Ιi
	GCpi: 0.18	Plate Type(s):		┛.
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.01.01A.0521.20	I
Lumbor	•		•	_

▲ Maximum Reactions (lbs), or *=PLF							
	G	avity		No	on-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
Α	17	/-	/-	/56	/42	/82	
B*	73	/-	/-	/58	/7	/-	
G	17	/-	/-	/15	/2	/-	
Win	d read	ctions b	ased on I	MWFRS			
Α	Brg V	Vidth =	5.9	Min Req = 1.5			
В	Brg V	Vidth =	88.5	Min Re	q = -		
G	Brg V	Vidth =	5.9	Min Re		5	
Bearings A, B, & G are a rigid surface.							
	_		ed have fo	-		375#	

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

Plating Notes

All plates are 2X4 except as noted.

Loading

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

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

Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 12-11-9.



02/04/2022

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

Gable Stud Reinforcement Detail

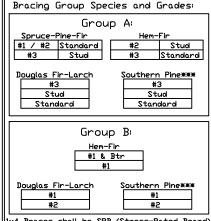
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

							p			,		·F		
		2×4 · Vertico	Brace	No	(1) 1×4 "L	" Brace *	(1) 2×4 *L	." Brace *	(2) 2×4 *L	" Brace **	(1) 2×6 L	" Brace *	(2) 2×6 L	Brace **
2	Spacing	Species		Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
1		CDE	#1 / #2	4′ 3″	7′ 3″	7' 7"	8′ 7 ″	8′ 11″	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	1 -	SPF	#3	4′ 1″	6′ 7 ″	7′ 1″	8′ 6 ″	8′ 10 ″	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14′ 0″
1 2	Ų	HF	Stud	4′ 1″	6′ 7 ″	7′ 0 ″	8′ 6 ″	8′ 10 ″	10′ 1″	10′ 6″	13′ 4″	13′ 10 ″	14′ 0″	14′ 0″
>	ō	1 11	Standard	4′ 1″	5′ 8 ″	6′ 0 ″	7′ 7″	8′ 1 ″	10′ 1″	10′ 6″	11′ 10″	12′ 8″	14′ 0″	14′ 0″
Q			#1	4′ 6″	7′ 4″	7′ 8 ″	8′ 8″	9′ 0″	10′ 4″	10′ 9″	13′ 8″	14′ 0″	14′ 0″	14′ 0″
	*	SP	#2	4′ 3″	7′ 3″	7' 7"	8′ 7 ″	8′ 11 ″	10′ 3″	10′ 8″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
	4	DE.	#3	4′ 2″	6′ 0″	6′ 4″	7′ 11 ″	8′ 6 ″	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
g	α	DFL	Stud	4′ 2″	6′ 0 ″	6′ 4″	7′ 11 ″	8′ 6″	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
$1 \mathrm{H}$			Standard	4′ 0″	5′ 3 ″	5′ 7 ″	7′ 0 ″	7′ 6 ″	9′ 6″	10′ 2 ″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.9		SPF	#1 / #2	4′ 11″	8′ 4″	8′ 8 ″	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1+		SLL	#3	4′ 8″	8′ 1″	8′ 8 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	סיכ	l HF	Stud	4′ 8″	8′ 1″	8′ 6 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 2		1 11	Standard	4′ 8″	6′ 11″	7′ 5 ′	9′ 3″	9′ 11″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
~			#1	5′ 1 ″	8′ 5 ″	8′ 9 ″	9′ 11″	10′ 4″	11′ 10″	12′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
/	*	SP	#2	4′ 11″	8′ 4″	8′ 8 ″	9′ 10″	10′ 3″	11′ 8″	12′ 2″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	9		#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 0	16	DFL	Stud	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2″	11′ 8″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
1 🛪			Standard	4′ 8″	6′ 5″	6′ 10 ″	8′ 7″	9′ 2″	11′ 7″	12′ 1″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
2		SPF	#1 / #2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	11′ 8″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			#3	5′ 1″	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ų	HF	Stud	5′ 1″	9′ 0″	9′ 4″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	Ō	<u> </u>	Standard	5′ 1″	8′ 0″	8′ 6″	10′ 8″	11′ 1″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
X	_		#1	5′ 8″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Ισ	*	SP	#2	5′ 5″	9′ 2″	9′ 6″	10′ 10″	11′ 3″	12′ 11″	13′ 5″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Μ Q	α	DE.	#3	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
_	1	DFL	Stud	5′ 3″	8′ 5″	9′ 0″	10′ 9″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	5′ 1 ″	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 9″	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

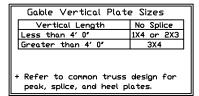
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

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

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

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

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



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

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 total length is 14'. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at midpoint of vertical web.

Symm C "L" Brace End Zones, typ. Continuous Bearing

Refer to chart shove for max gable ventical length.

VARNINGI READ AND FOLLOW ALL NOTES ON THIS DRAVINGI
****IMPORTANT*** FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing interiminating interiminating for an 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 botton chord shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to early a for truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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

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

engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the 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.sbcacomponents.com; ICC: www.iccsafe.org

COA#0278 02/04/2022

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

514 Earth City Expressway Suite 242 Earth City, MO 63045

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

Gable Stud Reinforcement Detail

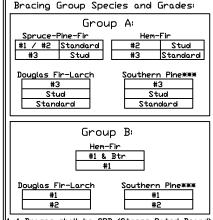
ASCE 7-16: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

		2x4 · Vertica	Brace	No	(1) 1×4 "L	" Brace *	(1) 2×4 *L	" Brace *	(2) 2×4 *L	Brace **	(1) 2×6 *L	* Brace *	(2) 2×6 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
다 구		CDE	#1 / #2	4′ 1″	6′ 11″	7′ 2 ″	8′ 2 ″	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″
	-	SPF	#3	3′ 10″	6′ 2″	6′ 7″	8′ 1″	8′ 5 ″	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″
2	<u>ب</u> ا	HF	Stud	3′ 10″	6′ 2 ″	6′ 6 ″	8′ 1″	8′ 5 ″	9′ 8″	10′ 0″	12′ 8″	13′ 2″	14′ 0″	14′ 0″
			Standard	3′ 10″	5′ 3 ″	5′ 7 ″	7′ 0″	7′ 6″	9′ 6″	10′ 0″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
به			#1	4′ 2″	7′ 0″	7′ 3″	8′ 3″	8′ 7″	9′ 10″	10′ 3″	13′ 0 ″	13′ 6″	14′ 0″	14′ 0″
	*	SP	#2	4′ 1″	6′ 11″	7′ 2″	8′ 2 ″	8′ 6″	9′ 9″	10′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″
	4	l	#3	4′ 0″	5′ 7″	5′ 11″	7′ 5 ″	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″
d	. –		Standard	3′ 9″	4′ 11″	5′ 13 ″	6′ 6 ″	7′ 0″	8′ 10 ″	9′ 6″	10′ 3″	11′ 0″	13′ 11″	14′ 0″
<u> </u>		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 ″	7′ 6″	8′ 3″	9′ 3″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
;	O U	HF	Stud	4′ 5 ″	7′ 6″	8′ 0 ″	9′ 3 ″	9′ 7″	11′ 0″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Ιà	ا آ	1 11	Standard	4′ 5 ″	6′ 5 ″	6′ 10 ″	8′ 7 ″	9′ 2″	11′ 0″	11′ 6″	13′ 6″	14′ 0″	14′ 0″	14′ 0″
🖑			#1	4′ 10″	8′ 0 ″	8′ 4″	9′ 6″	9′ 10″	11′ 3″	11′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
>		SP	#2	4′ 8 ″	7′ 11″	8′ 3 ″	9′ 4″	9′ 9″	11′ 2″	11′ 7″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	l .'^		#3	4′ 7″	6′ 10 ″	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
lω	 	DFL	Stud	4′ 7″	6′ 10 ″	7′ 3″	9′ 1″	9′ 8″	11′ 1″	11′ 6″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 5 ″	6′ 0″	6′ 5 ″	8′ 0 ″	8′ 7″	10′ 10″	11′ 6″	12′ 7″	13′ 15″	14′ 0″	14′ 0″
2		SPF	#1 / #2	5′ 2 ″	8′ 9 ″	9′ 1″	10′ 4″	10′ 9″	11′ 2″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			#3	4′ 10″	8′ 7″	8′ 11″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	U	HF	Stud	4′ 10″	8′ 7 ″	8′ 11 ″	10′ 2″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	0,0	1 11	Standard	4′ 10″	7′ 5″	7′ 11″	9′ 11″	10′ 7″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
$\parallel \times \parallel$			#1	5′ 4 ″	8′ 10″	9′ 2″	10′ 5 ″	10′ 10″	12′ 5″	12′ 11″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
		SP	#2	5′ 2 ″	8′ 9″	9′ 1″	10′ 4″	10′ 9″	12′ 3″	12′ 9″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Μ Δ	ù	_D _,	#3	5′ 0 ″	7′ 10″	8′ 4″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
	1,	IDFL	Stud	5′ 0 ″	7′ 10″	8′ 4 ″	10′ 3″	10′ 8″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
			Standard	4′ 10″	6′ 11 ″	7′ 4″	9′ 3″	9′ 10″	12′ 2″	12′ 8″	14′ 0″	14′ 0″	14′ 0″	14′ 0″



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

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

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

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

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

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

Gable Vertical Plat	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.

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

Symm C "L" Brace End Zones, typ. Continuous Bearing Refer to chart shove for max gable ventical length.

midpoint of vertical web.

VARNING 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 botton chord shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to early a shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to early a shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to early a shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to early a shall have bracing installed per BCSI sections. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation 8 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.sbcacomponents.com; ICC: www.iccsafe.org

...02/04/2022 COA #0 278

ASCE7-16-GAB14030 |DATE 01/26/2018 DRWG A14030ENC160118

MAX, TOT, LD, 60 PSF

MAX. SPACING 24.0"

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-reinforcement or scab reinforcement.

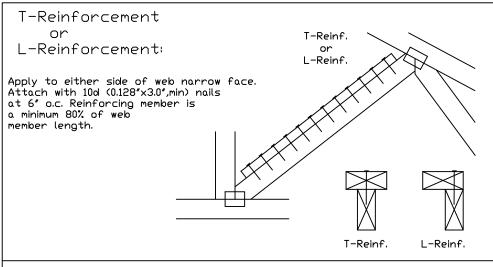
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

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

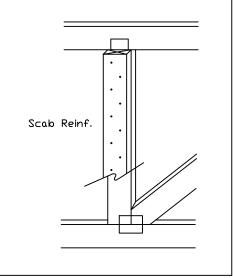
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

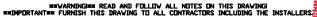
(**) Center scab on wide face of web. Apply (1) scab to each face of web.



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) nalls at 6" o.c. Reinforcing member is a minimum 80% of web member length.





Trusses require extreme care in fabricating, handling, shipping, installing The Installing and follow the latest edition of BCSI (Buldling Component Safety Information, by TPI and SBCA) for so ety practices prior to performing these functions. Installiers shall provide temporary bracing pe BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bot on chords shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of weighs shall have bracing installed per BCSI sections B3. B7 or BIO, as applicable. Apply plates to each for trust 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, 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.sbcacomponents.com; ICC: www.iccsafe.org



£ LL	PSF	REF	CLR Subst.
C DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
ПТ. LD.	PSF		
		Į.	
UR. FAC.			
		1	



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

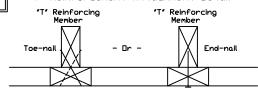
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

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, S16015ENC100118, \$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100418, S11530ENC100118, S12030ENC100118, S14030ENC100118, \$16030[NC1001]8, \$1,000

\$18030ENC100118, \$20030ENC100118, \$20030EN3100118, \$20030PED100118

"T" Reinforcement Attachment Detail



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

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

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

Web Length Increase w/ "T" Brace

"T" Reinf.	' T'
Mbr. Size	Increase
2×4	30 %
2×6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00Gable 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 $1.30 \times 8' \ 7'' = 11' \ 2''$

See appropriate Alpine gable detail for maximum any eleforces galle, ver

VARNINGI READ AND FOLLOW ALL NOTES ON THIS DRAVINGI ****IMPORTANT*** FURNISH THIS DRAVING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, shipping, installing and moracing. Refer to and follow the latest edition of BCSI (Building Component Safety information, by FPI and SBCA) for screety 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 bot on chord shall have a properly attached rigid celling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or 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 from this drawing, any fallure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping in stallation & 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.sbcacomponents.com; ICC: www.iccsafe.org

COA #0 278 02/04/2022

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

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

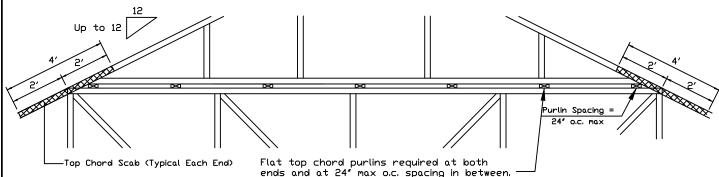
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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.

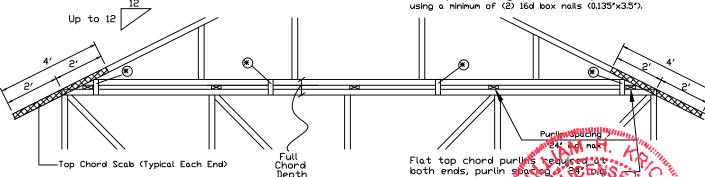
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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



Depth Note: If purlins or sheathing are not specified on the flat top of the sage

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

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

to back faces.

Trusses require extreme care in fabricating, handling, shipping, installing interioring. Refer to an follow the latest edition of BCSI (Buldling Component Safety Information, by TPI and SBCA) for so ety practices prior to performing these functions. Installers shall provide temporary bracing pe BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bot on chords 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 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 from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

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

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

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



IREF **PIGGYBACK** 01/02/2018 DATE

DRWG PB160160118

SPACING 24.0"