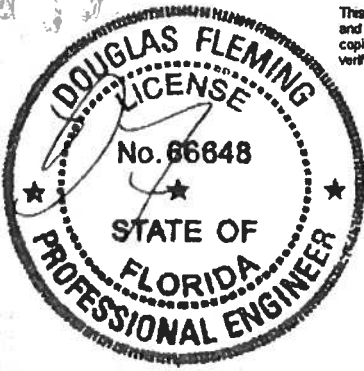




This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



COA #0 278
12/20/2019

38947

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: 19-3729
Job Description: /LANG RES. /Contractor	
Address: LAKE CITY, FL	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01B
	JRef #: 1WR72150003
Wind Standard: ASCE 7-10	Wind Speed (mph): 130
Building Type: Closed	Roof Load (psf): 20.00-10.00- 0.00-10.00
	Floor Load (psf): None

This package contains general notes pages, 13 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	354.19.0733.09385	A01
3	354.19.0733.09402	A03
5	354.19.0733.09479	B01
7	354.19.1001.40330	B03
9	354.19.0733.09416	B05
11	354.19.0733.10274	P1
13	354.19.1001.53800	P3
15	BRCLBSUB0119	
17	PB160101014	

Item	Drawing Number	Truss
2	354.19.0733.10321	A02
4	354.19.0733.09557	A04
6	354.19.1001.36957	B02
8	354.19.1001.44330	B04
10	354.19.0733.09619	B06
12	354.19.1001.47623	P2
14	A14015ENC101014	
16	GBLLETIN0118	
18	VAL160101014	

umber

3.1032

3.0957

1.3695

1.443

3.096

1.476

C1010

0118

1114

31.0

6.0

6.0

6.0

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 AF&PA. 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.

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.

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

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.

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 immediate vertical Deflection, 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(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. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.

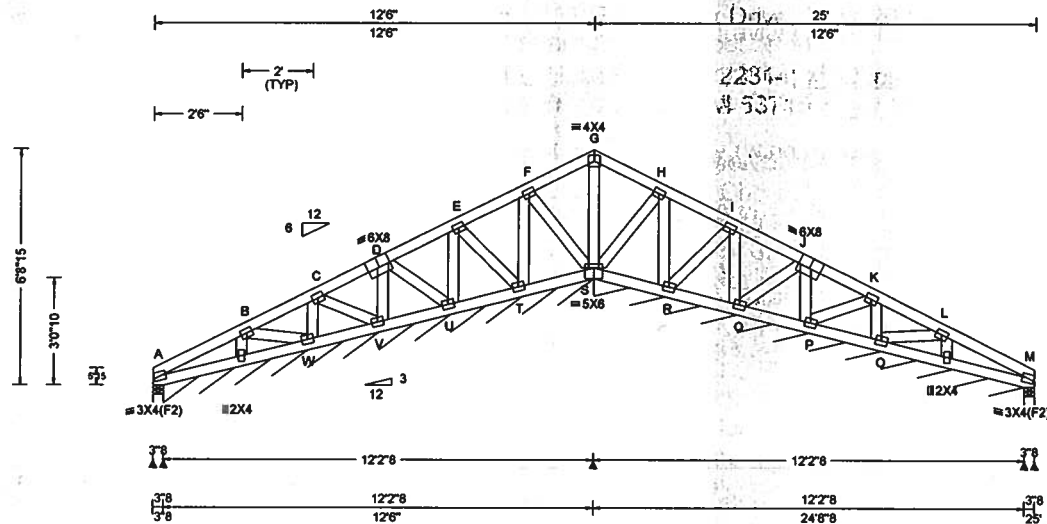
2. ICC: International Code Council; www.iccsafe.org.

3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.

4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.

5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co

SEQN: 290860 / FROM: CDM	GABL Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: A01	Cust: R 215 JRef: 1WR72150003 T9 / DrwNo: 354.19.0733.09385 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF												
				Gravity			Non-Gravity									
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 G 999 240 VERT(CL): 0.001 G 999 180 HORZ(LL): 0.002 N 2234 HORZ(TL): 0.002 N 11507 Creep Factor: 2.0 Max TC CSI: 0.066 Max BC CSI: 0.051 Max Web CSI: 0.034 VIEW Ver: 18.02.01B.0321.08	Loc	R+	/R-	/Rh	/Rw	/U	/RL						
				A	114	-	-	/91	/32	/158						
				A*	85	-	-	/59	/11	-						
				S*	66	-	-	/46	/13	-						
				M	114	-	-	/71	/26	-						
				Wind reactions based on MWFRS												
				A	Brg Width = 3.5		Min Req = 1.5									
				A	Brg Width = 146		Min Req = -									
				S	Brg Width = 146		Min Req = -									
				M	Brg Width = 3.5		Min Req = 1.5									
				Bearings A, A*, S, & M 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;

Plating Notes

All plates are 3x4 except as noted.

Loading

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

Wind

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

Additional Notes

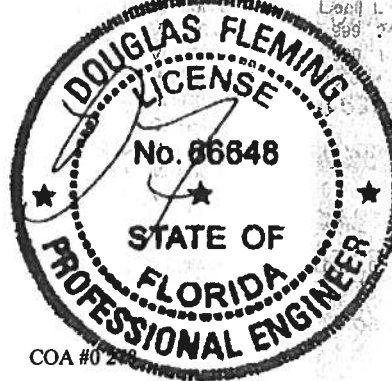
Refer to General Notes for additional information

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

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

Shim all supports to solid bearing.

The overall height of this truss excluding overhang is 6'-8-15.



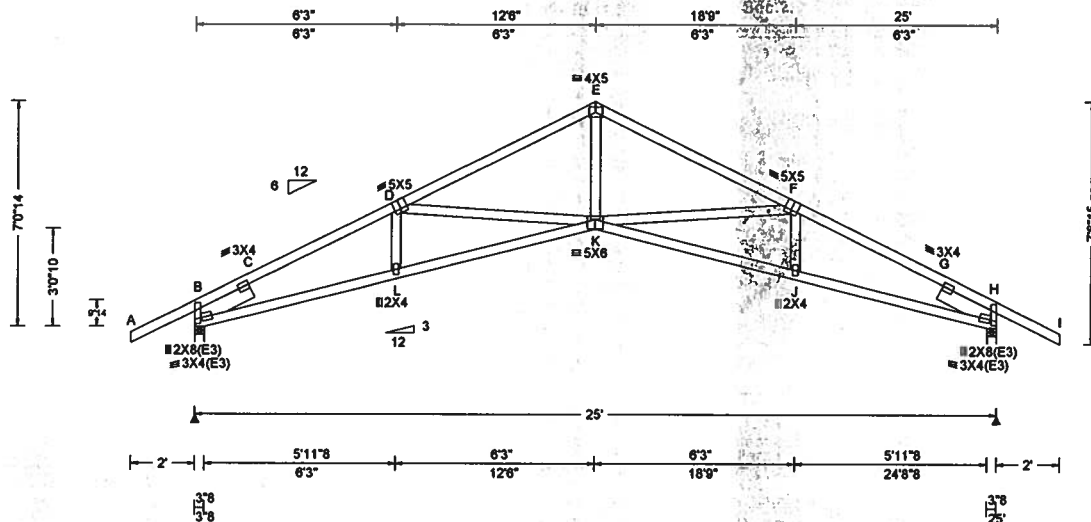
12/20/2019

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

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

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

SEQN: 290853 / FROM: CDM	COMN	Ply: 1 Qty: 10	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: A02	Cust: R 215 JRef: 1WR72150003 T2 / DrwNo: 354.19.0733.10321 JB / DF 12/20/2019
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg, Pf in PSF)		Defl/CSI Criteria		Maximum Reactions (lbs)	
TCLL: 20.00		Wind Std: ASCE 7-10		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/def L/#		Gravity	Non-Gravity
TCCL: 10.00		Speed: 130 mph		Pf: NA Ce: NA		VERT(LL): 0.216 K 999 240		Loc R+ / R- / Rh	/ Rw / U / RL
BCLL: 0.00		Enclosure: Closed		Lu: NA Cs: NA		VERT(CL): 0.436 K 688 180		B 1169 /- /- /703 /209 /210	
BCDL: 10.00		Risk Category: II		Snow Duration: NA		HORZ(LL): 0.163 G - - -		H 1169 /- /- /703 /209 /-	
Des Ld: 40.00		EXP: C Kzt: NA				HORZ(TL): 0.328 G - - -		Wind reactions based on MWFRS	
NCBCLL: 10.00		Mean Height: 15.00 ft				Creep Factor: 2.0		B Brg Width = 3.5	Min Req = 1.5
Soffit: 2.00		BCDL: 5.0 psf				Max TC CSI: 0.813		H Brg Width = 3.5	Min Req = 1.5
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2				Max BC CSI: 0.829		Bearings B & H are a rigid surface.	
Spacing: 24.0 "		C&C Dist a: 3.00 ft				Max Web CSI: 0.514		Members not listed have forces less than 375#	
		Loc. from endwall: Any						Maximum Top Chord Forces Per Ply (lbs)	
		GCpl: 0.18						Chords	Tens. Comp. Chords Tens. Comp.
		Wind Duration: 1.60						B - C	1068 - 2654 E - F 794 - 2082
								C - D	992 - 2590 F - G 1007 - 2590
								D - E	813 - 2082 G - H 1080 - 2654

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.970'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.970'

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

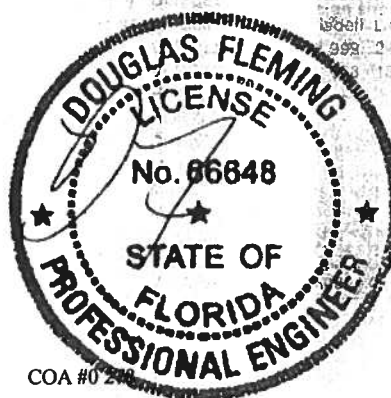
Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 7'-0-14.

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

B - L 2282 - 741 K - J 2302 - 773
L - K 2302 - 739 J - H 2282 - 775

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

D - K 342 - 418 K - F 338 - 418
E - K 1348 - 401



12/20/2019

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

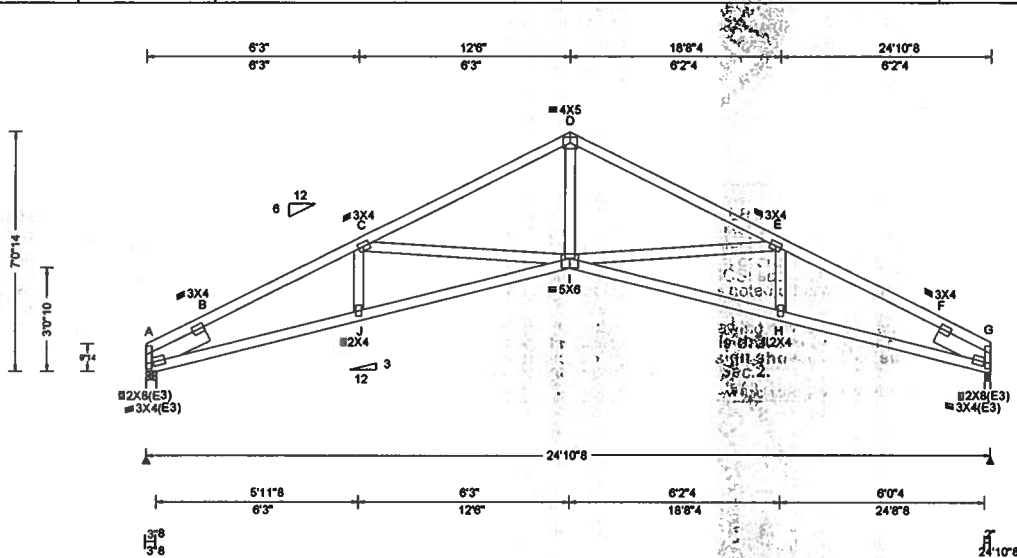
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 290855 / FROM: CDM	SPEC Qty: 1	Ply: 1 Job Number: 19-3729 /LANG RES. /Contractor Truss Label: A03	Cust: R 215 JRef: 1WR72150003 T10 / DrwNo: 354.19.0733.09402 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)										
				Gravity			Non-Gravity							
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/R-	/Rh	/Rw	/U					
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.209 I 999 240											
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.433 I 690 180	A	1032	-	-	/588	/15					
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.156 F - -	G	1032	-	-	/590	/14					
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.324 F - -	Wind reactions based on MWFRS										
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	A	Brg Width = 3.5		Min Req = 1.5							
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.753	G	Brg Width = 2.0		Min Req = 1.5							
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.833	Bearings A & G are a rigid surface.										
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.523	Members not listed have forces less than 375#										
	C&C Dist a: 3.00 ft		VIEW Ver: 18.02.01B:0321.08	Maximum Top Chord Forces Per Ply (lbs)										
	Loc. from endwall: not in 9.00 ft			Chords	Tens.Comp.	Chords	Tens. Comp.							
	GCpi: 0.18			A - B	581 - 2722	D - E	456 - 2098							
	Wind Duration: 1.60			B - C	587 - 2651	E - F	578 - 2606							
				C - D	456 - 2101	F - G	569 - 2679							

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.970'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.822'

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

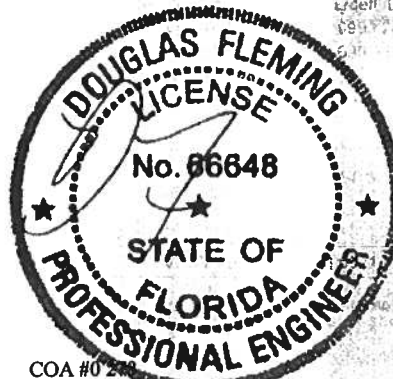
Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 7'-0-14.

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

A - J 2346 -457 I - H 2317 -438
J - I 2365 -450 H - G 2297 -445

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

C - I 210 -465 I - E 200 -419
D - I 1373 -235



COA #0 2
12/20/2019

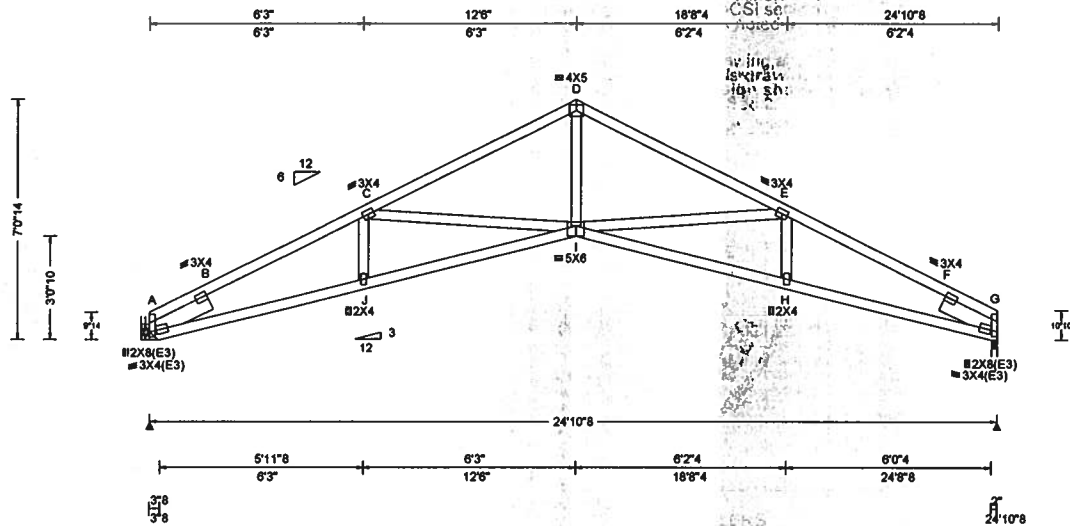
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety 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-2 for standard plate positions.

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

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

ALPINE
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6750 Forum Drive
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Orlando FL, 32821

SEQN: 290857 / FROM: CDM	SPEC Qty: 5	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: A04	Cust: R 215 JRef: 1WR72150003 T13 / DrwNo: 354.19.0733.09557 JB / DF 12/20/2019
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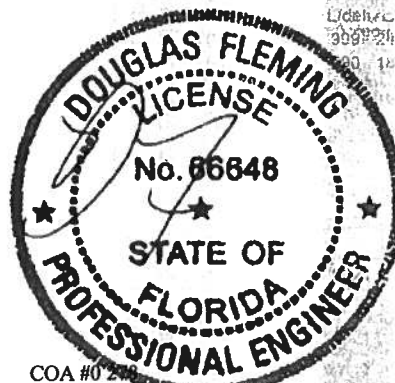
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)												
				Gravity			Non-Gravity									
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpf: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.209 I 999 240 VERT(CL): 0.433 I 690 180 HORZ(LL): 0.156 F J - - HORZ(TL): 0.324 F - - - Creep Factor: 2.0 Max TC CSI: 0.753 Max BC CSI: 0.833 Max Web CSI: 0.523 VIEW Ver. 18.02.01B:0321.08	Loc	R+	/R-	/Rh	/Rw	/U	/RL						
				A	1032	-	-	/588	/15	/158						
				G	1032	-	-	/590	/14	-						
				Wind reactions based on MWFRS												
				A	Brg Width = -		Min Req = -									
				G	Brg Width = 2.0		Min Req = 1.5									
				Bearing G 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.									
				A - B	581 - 2722	D - E	456 - 2098									
				B - C	587 - 2651	E - F	578 - 2606									
				C - D	456 - 2101	F - G	569 - 2679									

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.970'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 1.822'

Hangers / Ties
(J) Hanger Support Required, by others

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

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 7'-0-14.



COA #0240
12/20/2019

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
A - J	2346 - 457	I - H	2317 - 438		
J - I	2365 - 450	H - G	2297 - 445		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	210 - 465	I - E	200 - 419
D - I	1373 - 235		

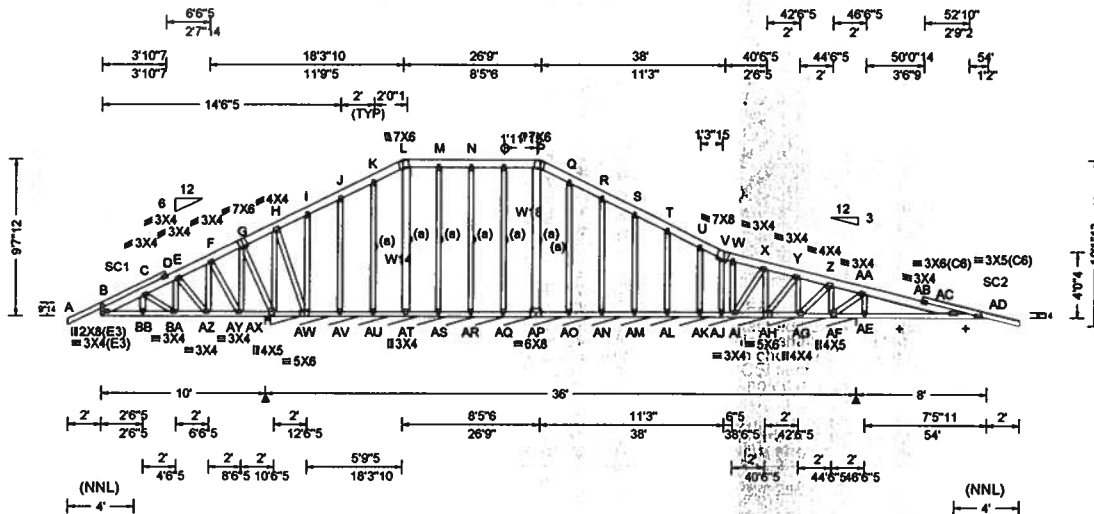
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety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

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

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

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 290842 / FROM: CDM Page 1 of 2	GABL Qty: 1	Ply: 1 Job Number: 19-3729 /LANG RES. /Contractor Truss Label: B01	Cust: R 215 JRef: 1WR72150003 T1 / DrwNo: 354.19.0733.09479 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs), or * = PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.179 AE 537 240 VERT(CL): 0.363 AE 264 180 HORZ(LL): -0.038 AE - - HORZ(TL): 0.076 AE - - Creep Factor: 2.0 Max TC CSI: 0.615 Max BC CSI: 0.401 Max Web CSI: 0.663 VIEW Ver: 18.02.01B:0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AX 227 /- /- /243 /90 /316 AX* 123 /- /- /66 /20 /- AW /-729 AI /-153 AH /-104 AG /-337 Wind reactions based on MWFRS AX Brg Width = 3.5 Min Req = 1.5 AX Brg Width = 428 Min Req = - Bearings AX & AX are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)

Lumber
Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W14, W18 2x6 SP 2400f-2.0E;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 2X4 except as noted.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
Left and right cantilevers are exposed to wind
See DWGS A14015ENC101014 & GBLLETIN0118 for more requirements.
Truss designed to support 8" maximum gable end overhang.
+ MEMBER TO BE Laterally Braced for HORIZONTAL WIND LOADS.
GABLE END IS DESIGNED TO SUPPORT 8" MAX RAKE OVERHANG.

Additional Notes
Refer to General Notes for additional information
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.
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-7 1/2".



Chords	Tens. Comp.	Chords	Tens. Comp.
B - C	497 - 660	P - Q	838 - 574
C - D	678 - 816	Q - R	842 - 657
D - E	718 - 754	R - S	839 - 736
E - F	896 - 906	S - T	837 - 791
F - G	1073 - 1071	T - U	837 - 840
G - H	1206 - 1191	U - V	815 - 868
H - I	877 - 713	V - W	754 - 840
I - J	853 - 644	W - X	757 - 849
J - K	859 - 613	X - Y	840 - 784
K - L	843 - 559	Y - Z	1158 - 1071
L - M	754 - 486	Z - AA	2128 - 2252
M - N	754 - 485	AA-AB	2149 - 2279
N - O	754 - 485	AB-AD	1679 - 1861
O - P	754 - 486	AB-AC	514 - 461

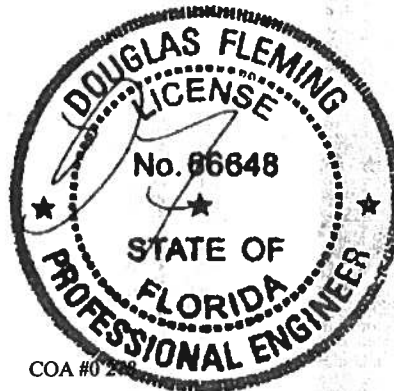
Chords	Tens. Comp.	Chords	Tens. Comp.
B - BB	727 - 527	AP-AO	1081 - 729
BB-BA	726 - 526	AO-AN	1079 - 727
BA-AZ	926 - 735	AN-AM	1077 - 726
AZ-AY	1130 - 899	AM-AL	1075 - 724
AY-AX	2618 - 1926	AL-AK	1073 - 721
AX-AW	1432 - 982	AK-AJ	1072 - 719
AW-AV	1080 - 726	AJ-AI	1075 - 722
AV-AU	1081 - 727	AI-AH	972 - 780
AU-AT	1082 - 729	AH-AG	1217 - 1070
AT-AS	1089 - 741	AG-AF	2239 - 1929
AS-AR	1089 - 741	AF-AE	4628 - 4040
AR-AQ	1089 - 741	AE-AC	2331 - 2038
AQ-AP	1089 - 741	AC-AD	1911 - 1648

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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SEQN: 290842 /	GABL	Ply: 1	Job Number: 19-3729	Cust: R 215 JRef: 1WR72150003 T1 /
FROM: CDM		Qty: 1	/LANG RES. /Contractor	DrwNo: 354.19.0733.09479
Page 2 of 2			Truss Label: B01	JB / DF 12/20/2019

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F -AY	389 -285	X -AH	319 -432
G -AX	492 -362	AH- Y	644 -627
AX- H	1297 -1073	Y -AG	637 -712
H -AW	879 -1099	AG- Z	1401 -1468
L -AT	296 -462	Z -AF	1447 -1413
AP- P	335 -467		



COA #0220
12/20/2019

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

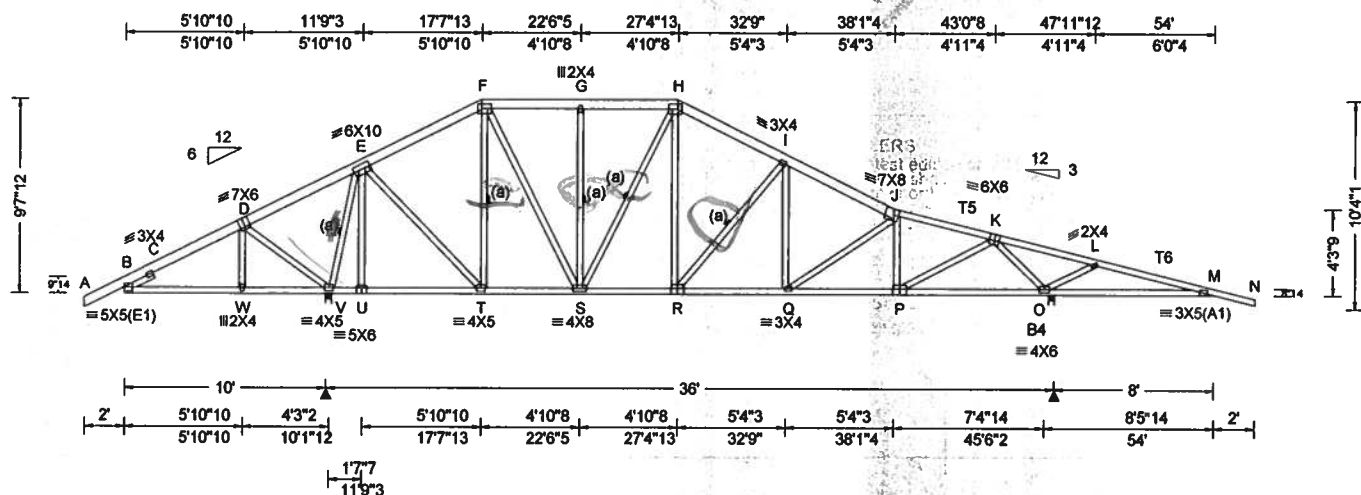
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
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Suite 305
Orlando FL, 32821

SEQN: 291306 FROM: CDM	COMN Ply: 1 Qty: 13	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: B02	Cust: R 215 JRef: 1WR72150003 T8 DrwNo: 354.19.1001.36957 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)										
				Gravity			Non-Gravity							
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/R-	/Rh	/Rw	/U	/RL				
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.107 Q 999 240	V	2715	-	-	/1540	/417	/331				
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.216 O 451 180	O	2360	-	-	/1391	/330	-				
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.024 F - -	Wind reactions based on MWFRS										
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.048 F - -	V	Brg Width = 3.5	Min Req = 2.8								
NCBCLL: 10.00	Mean Height: 15.11 ft		Creep Factor: 2.0	O	Brg Width = 3.5	Min Req = 1.6								
Soffit: 2.00	BCDL: 5.0 psf		Max TC CSI: 0.814	Bearings V & O are a rigid surface.										
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2		Max BC CSI: 0.716	Members not listed have forces less than 375#										
Spacing: 24.0 "	C&C Dist a: 5.40 ft		Max Web CSI: 0.965	Maximum Top Chord Forces Per Ply (lbs)										
	GCpi: 0.18		VIEW Ver: 18.02.01B.0321.08	Chords	Tens.Comp.	Chords	Tens. Comp.							
	Wind Duration: 1.60			B - C	774	-625	H - I	676	-1485					
				C - D	717	-524	I - J	711	-1878					
				D - E	1149	-655	J - K	755	-1731					
				E - F	399	-823	K - L	1621	-1631					
				F - G	704	-1057	L - M	1245	-1372					
				G - H	704	-1057								

Lumber
Top chord: 2x6 SP 2400f-2.0E; T5, T6 2x4 SP #2;
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.611'

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 6X8 except as noted.

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

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left and right cantilevers are exposed to wind

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 10.0'
bearing 2 located at 45.7'

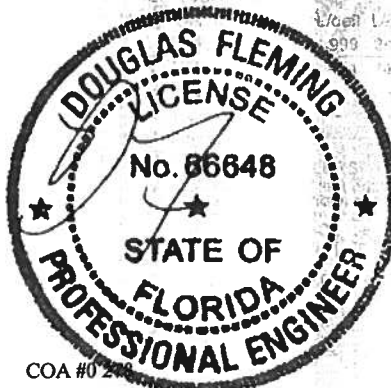
Additional Notes
Refer to General Notes for additional information
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-7-12.

Maximum Bot Chord Forces Per Ply (lbs)

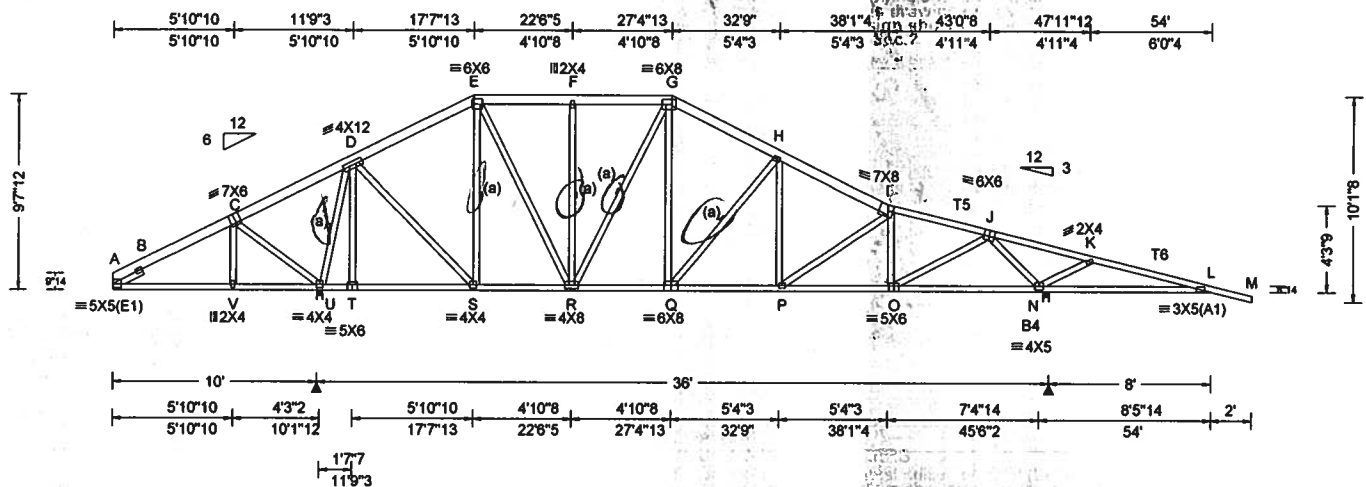
Chords	Tens.Comp.	Chords	Tens. Comp.
B - W	620 -541	S - R	1261 -108
W - V	620 -541	R - Q	1615 -326
V - U	677 -628	Q - P	1696 -554
U - T	677 -627	P - O	938 -600
T - S	659 -42	O - M	2814 -2326

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - V	363 -545	H - R	692 -258
V - E	1052 -2365	R - I	347 -583
E - T	1494 -630	J - P	512 -653
F - T	469 -835	P - K	1699 -964
F - S	904 -476	K - O	1452 -2566
S - H	273 -438	O - L	391 -490



SEQN: 291308 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3729 LANG RES. /Contractor Truss Label: B03	Cust: R 215 JRef: 1WR72150003 T3 DrwNo: 354.19.1001.40330 JB / DF 12/20/2019
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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 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.11 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.40 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.085 N 999 240 VERT(CL): 0.216 N 452 180 HORZ(LL): 0.022 E - - HORZ(TL): 0.050 E - - Creep Factor: 2.0 Max TC CSI: 0.816 Max BC CSI: 0.640 Max Web CSI: 0.755 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U 2376 /- /- /1429 /35 /305 N 2250 /- /- /1392 /245 /- Wind reactions based on MWFRS U Brg Width = 3.5 Min Req = 2.4 N Brg Width = 3.5 Min Req = 1.5 Bearings U & N 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.

Lumber
Top chord: 2x6 SP 2400f-2.0E; T5, T6 2x4 SP #2;
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.611'

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 3X4 except as noted.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left and right cantilevers are exposed to wind

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 10.0'
bearing 2 located at 45.7'

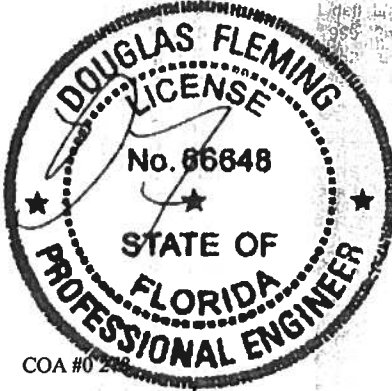
Additional Notes
Refer to General Notes for additional information
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-7-12.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
U - T	276 -462	Q - P	1474 -186
T - S	277 -461	P - O	1730 -330
S - R	696 -53	O - N	1033 -589
R - Q	1126 -57	N - L	2592 -2324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - U	223 -548	Q - Q	565 -145
U - D	454 -2019	Q - H	205 -583
D - S	1221 -246	I - O	382 -608
E - S	194 -759	O - J	1575 -625
E - R	794 -224	J - N	922 -2416
R - G	127 -378	N - K	240 -490



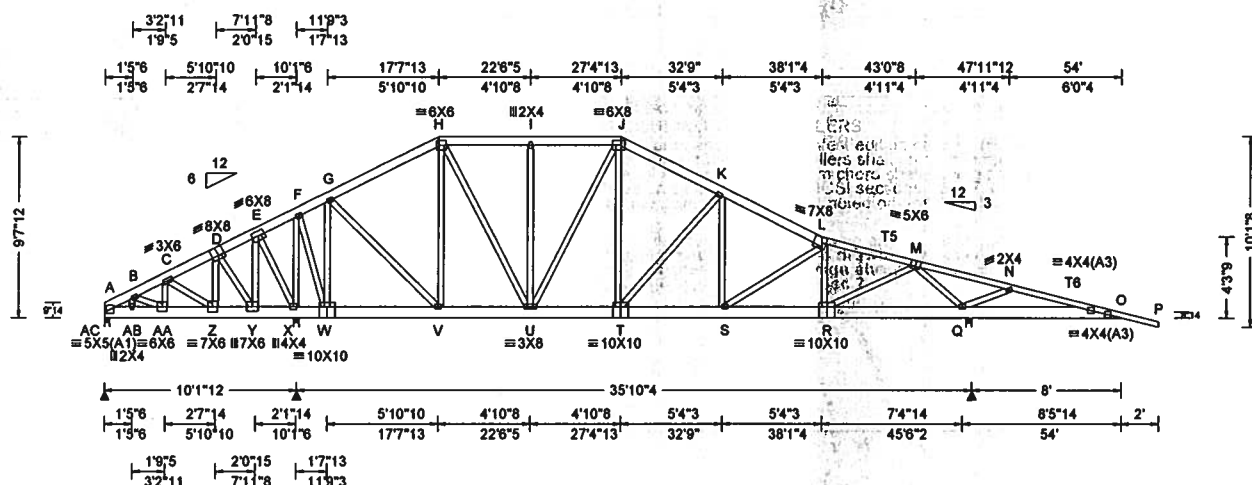
COA #0228
12/20/2019

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

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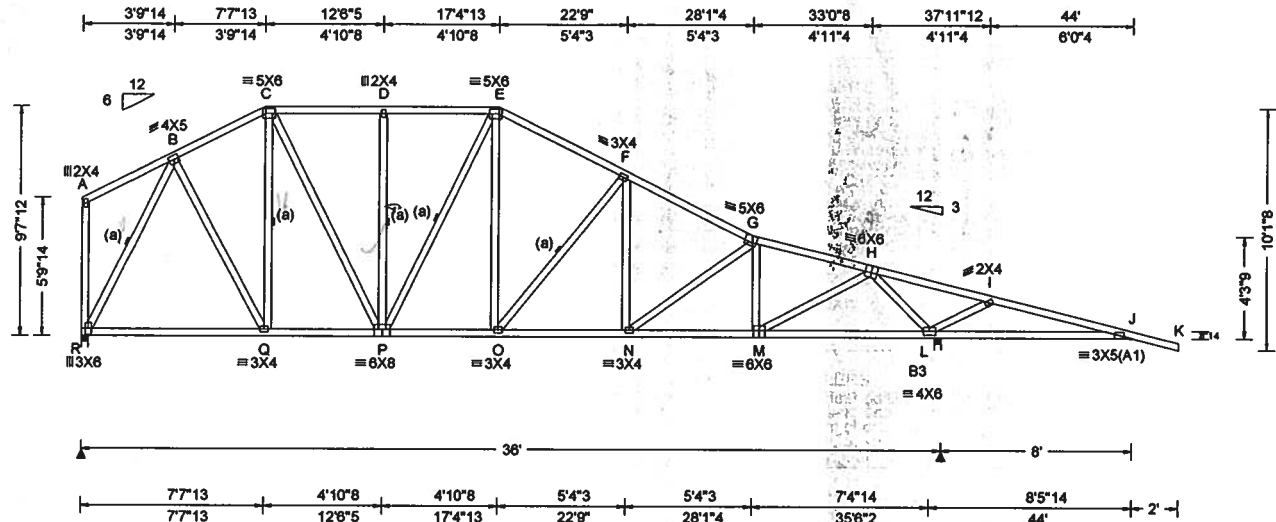
SEQN: 291489 FROM: CDM	COMN Qty: 1	Ply: 2 Job Number: 19-3729 /LANG RES. /Contractor Truss Label: B04	Cust: R 215 JRef: 1WR72150003 T4 DrwNo: 354.19.1001.44330 JB / DF 12/20/2019
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	Maximum Reactions (lbs)											
				Gravity			Non-Gravity								
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 5.40 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 Q 999 240 VERT(CL): 0.081 Q 999 180 HORZ(LL): 0.010 C - - HORZ(TL): 0.021 C - - Creep Factor: 2.0 Max TC CSI: 0.464 Max BC CSI: 0.271 Max Web CSI: 0.895 VIEW Ver: 18.02.01B.0321.08	Loc	R+	R-/R-	Rh	Rw	U	RL					
				AC	4560	-	-	/210	/161	/305					
				X	9202	-	-	/1161	/456	-					
				Q	2305	-	-	/1446	/481	-					
				Wind reactions based on MWFRS											
				AC	Brg Width = 3.5	Min Req = 1.9									
				X	Brg Width = 3.5	Min Req = 3.4									
				Q	Brg Width = 3.5	Min Req = 1.5									
				Bearings AC, X, & Q 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.						
				A - B	97	-2852	H - I	239	-606						
				B - C	101	-2831	I - J	239	-606						
				C - D	70	-1732	J - K	222	-786						
				D - E	40	-582	K - L	252	-997						
				E - F	553	-48	L - M	263	-1016						
				F - G	445	-175	M - N	883	-731						
				G - H	165	-542	N - O	669	-665						
				Maximum Bot Chord Forces Per Ply (lbs)											
				Chords	Tens.	Comp.	Chords	Tens.	Comp.						
				A - AB	2387	-80	V - U	450	-74						
				AB-AA	2377	-80	U - T	669	-105						
				AA - Z	2440	-86	T - S	859	-126						
				Z - Y	1414	-67	S - R	989	-196						
				Y - X	433	-59	R - Q	541	-260						
				X - W	201	-894	Q - O	1348	-1259						
				W - V	165	-392									
				Maximum Web Forces Per Ply (lbs)											
				Webs	Tens.	Comp.	Webs	Tens.	Comp.						
				AA - C	1074	-7	F - W	404	-79						
				C - Z	59	-1147	W - G	138	-853						
				Z - D	2004	-35	G - V	749	-78						
				D - Y	61	-1736	H - V	79	-473						
				Y - E	2350	-42	H - U	406	-93						
				E - X	60	-2128	R - M								

SEQN: 290825 / FROM: CDM	COMN Ply: 1 Qty: 12	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: B05	Cust: R 215 JRef: 1WR72150003 T8 / DrwNo: 354.19.0733.09416 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)																																																
TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.11 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.40 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.133 N 999 240 VERT(CL): 0.207 L 471 180 HORZ(LL): 0.052 C - - HORZ(TL): 0.096 C - - Creep Factor: 2.0 Max TC CSI: 0.808 Max BC CSI: 0.787 Max Web CSI: 0.865 VIEW Ver: 18.02.01B:0321.08	<table> <tr> <th colspan="2"></th><th colspan="2">Gravity</th><th colspan="3">Non-Gravity</th></tr> <tr> <th>Loc</th><th>R+</th><th>/R-</th><th>/Rh</th><th>/Rw</th><th>/U</th><th>/RL</th></tr> <tr> <td>R</td><td>1612</td><td>-</td><td>-</td><td>/755</td><td>/233</td><td>/256</td></tr> <tr> <td>L</td><td>2509</td><td>-</td><td>-</td><td>/1441</td><td>/347</td><td>-</td></tr> </table> Wind reactions based on MWFRS R Brg Width = 3.5 Min Req = 1.9 L Brg Width = 3.5 Min Req = 1.7 Bearings R & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table> <tr> <th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr> <tr> <td>B - C</td><td>454 - 1266</td><td>F - G</td><td>734 - 2191</td></tr> <tr> <td>C - D</td><td>577 - 1424</td><td>G - H</td><td>760 - 2016</td></tr> <tr> <td>D - E</td><td>577 - 1424</td><td>H - I</td><td>1615 - 1618</td></tr> <tr> <td>E - F</td><td>627 - 1805</td><td>I - J</td><td>1239 - 1377</td></tr> </table>			Gravity		Non-Gravity			Loc	R+	/R-	/Rh	/Rw	/U	/RL	R	1612	-	-	/755	/233	/256	L	2509	-	-	/1441	/347	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	454 - 1266	F - G	734 - 2191	C - D	577 - 1424	G - H	760 - 2016	D - E	577 - 1424	H - I	1615 - 1618	E - F	627 - 1805	I - J	1239 - 1377
		Gravity		Non-Gravity																																																
Loc	R+	/R-	/Rh	/Rw	/U	/RL																																														
R	1612	-	-	/755	/233	/256																																														
L	2509	-	-	/1441	/347	-																																														
Chords	Tens.Comp.	Chords	Tens. Comp.																																																	
B - C	454 - 1266	F - G	734 - 2191																																																	
C - D	577 - 1424	G - H	760 - 2016																																																	
D - E	577 - 1424	H - I	1615 - 1618																																																	
E - F	627 - 1805	I - J	1239 - 1377																																																	

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2; B3 2x4 SP M-31;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

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

Purlins

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

Wind

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

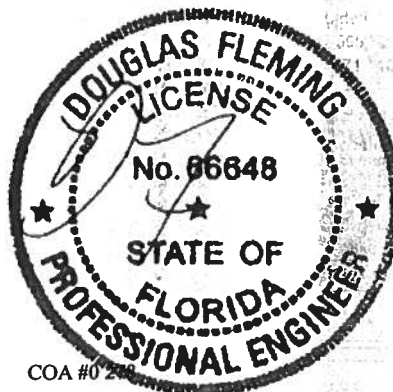
Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9'-7"-12.



COA #07248
 12/20/2019

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	740 - 103	N - M	1972 - 565
Q - P	1082 - 58	M - L	1073 - 527
P - O	1544 - 134	L - J	2818 - 2315
O - N	1889 - 354		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R - B	450 - 1633	O - F	356 - 577
B - Q	734 - 43	G - M	452 - 722
C - Q	63 - 383	M - H	1846 - 842
C - P	739 - 198	H - L	1294 - 2768
E - O	699 - 266	L - I	366 - 488

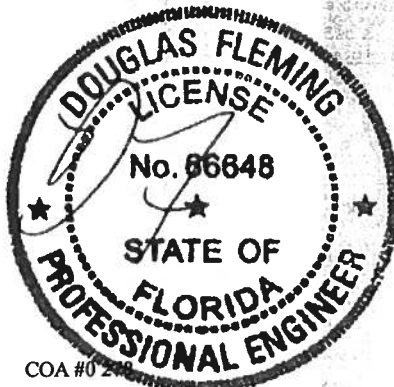
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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 br

SEQN: 290845 /	GABL	Ply: 1	Job Number: 19-3729	ERS	Cust: R 215 JRef: 1WR72150003 T12 /
FROM: CDM		Qty: 1	/LANG RES. /Contractor	ers who	DrwNo: 354.19.0733.09619
Page 2 of 2			Truss Label: B06	h chord	JB / DF 12/20/2019
				CSL sec	
				mod d	

E-AV	390	-378	V-AF	440	-441
AV-F	841	-870	AF-W	653	-740
F-AU	690	-681	W-AE	749	-721
J-AR	154	-399	AE-X	1409	-1581
AN-N	190	-402	X-AD	1564	-1422



COA #02

12/20/2019

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

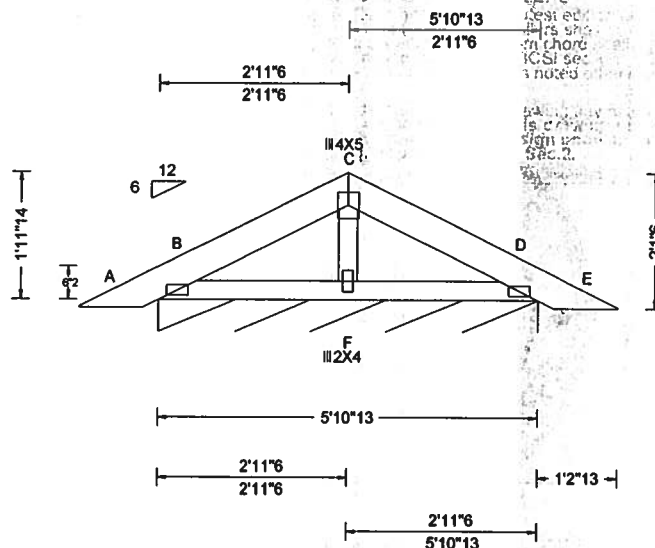
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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 6750 Forum Drive
 Suite 305
 Orlando FL, 32821

SEQN: 290847 / FROM: CDM	GABL Ply: 1 Qty: 2	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: P1	Cust: R 215 JRef: 1WR72150003 T62 / DrwNo: 354.19.0733.10274 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Def/CSI Criteria	Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 19.81 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 5.40 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc: L/defi, L/# VERT(LL): 0.001 F 999: 240 VERT(CL): 0.001 F 999: 180 HORZ(LL): -0.000 F - HORZ(TL): 0.001 F - Creep Factor: 2.0 Max TC CSI: 0.029 Max BC CSI: 0.063 Max Web CSI: 0.018 VIEW Ver. 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 100 /- /- /49 /26 /10 Wind reactions based on MWFRS B Brg Width = 70.8 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

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

Wind

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

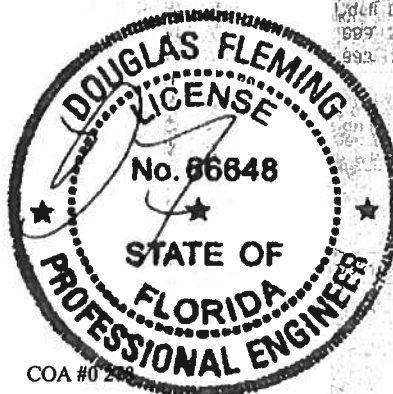
Additional Notes

Refer to General Notes for additional information

See DWG VAL160101014 for valley details.

The overall height of this truss excluding overhang is 11'-9-2.

Refer to DWG PB160101014 for piggyback details.



COA #0 208
12/20/2019

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

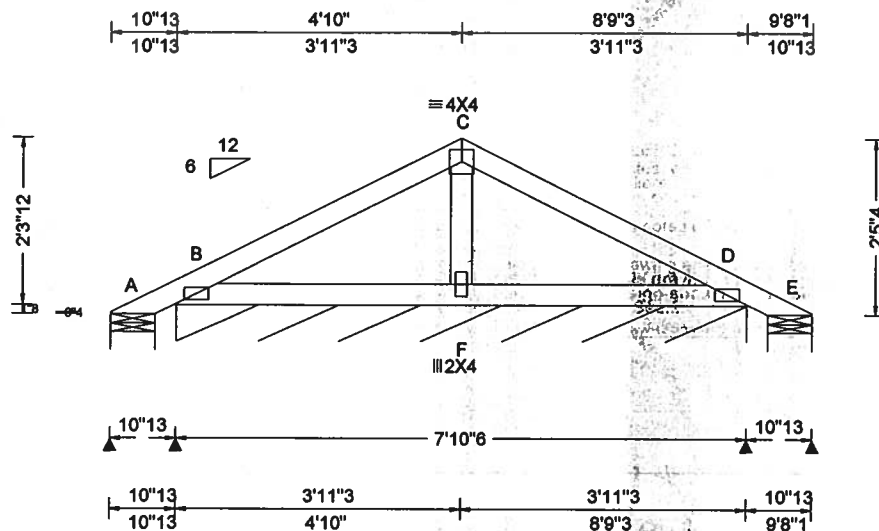
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 291319 FROM: CDM	COMN Ply: 1 Qty: 26	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: P2	Cust: R 215 JRef: 1WR72150003 T5 DrwNo: 354.19.1001.47623 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.11 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.002 F 999 240 VERT(CL): 0.005 F 999 180 HORZ(LL): -0.001 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.176 Max BC CSI: 0.159 Max Web CSI: 0.023 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-57 /- /40 /65 /64 B* 131 /- /- /52 /14 /- E - /-57 /- /20 /37 /- Wind reactions based on MWFRS A Brg Width = 7.3 Min Req = 1.5 B Brg Width = 94.4 Min Req = - E Brg Width = 7.3 Min Req = 1.5 Bearings A, B, & E 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;

Plating Notes

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

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

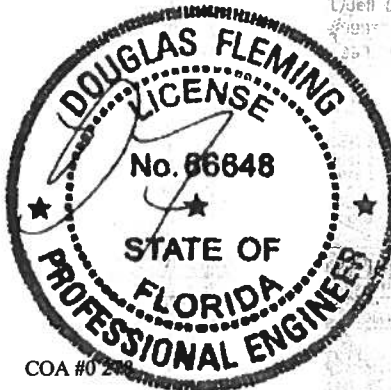
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 2-5-4.



COA #0 2
12/20/2019

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

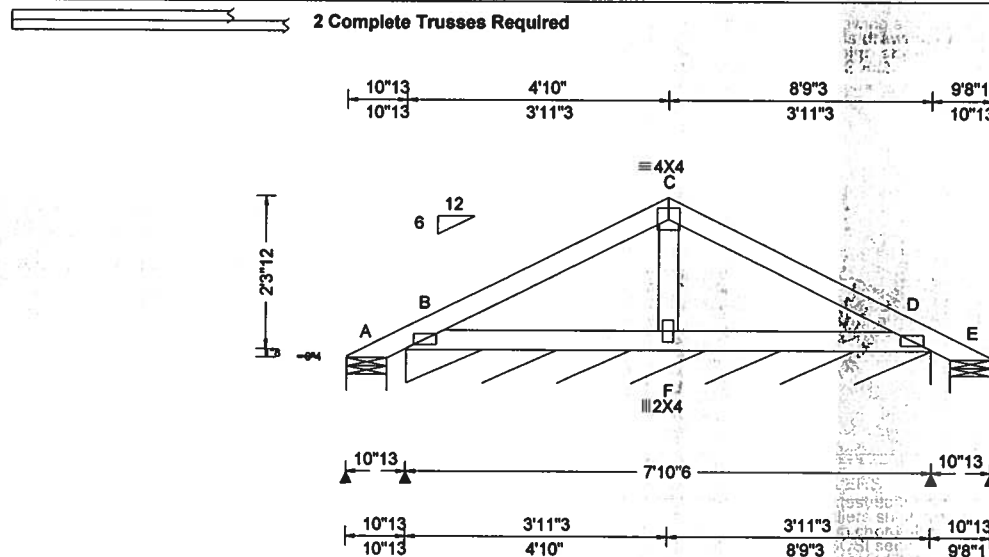
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6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 291321 FROM: CDM	COMN Ply: 2 Qty: 1	Job Number: 19-3729 /LANG RES. /Contractor Truss Label: P3	Cust: R 215 JRef: 1WR72150003 T7 DrwNo: 354.19.1001.53800 JB / DF 12/20/2019
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.11 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.001 F 999 240 VERT(CL): 0.002 F 999 180 HORZ(LL): -0.000 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.080 Max BC CSI: 0.080 Max Web CSI: 0.011 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A - /-57 /- /40 /65 /64 B* 110 /- /- /52 /- /- E - /-57 /- /12 /37 /- Wind reactions based on MWFRS A Brg Width = 7.3 Min Req = 1.5 B Brg Width = 94.4 Min Req = - E Brg Width = 7.3 Min Req = 1.5 Bearings A, B, & E 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;

Nailnote

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

Plating Notes

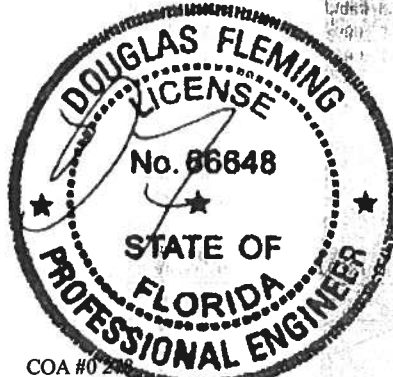
All plates are 2X4(A1) except as noted.

Wind

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

Additional Notes

Refer to General Notes for additional information
Refer to DWG PB160101014 for piggyback details.
The overall height of this truss excluding overhang is
2-5-4.



COA #0248

12/20/2019

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ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

2x4		Gable Stud Reinforcement Detail											
Max Gable Vertical Length	Gable Vertical Spacing	Brace Grade	1x4 'L' Brace			2x4 'L' Brace			2x6 'L' Brace			2x6 'L' Brace	2x6 'L' Brace
			Group A	Group B	Group C	Group A	Group B	Group C	Group A	Group B	Group C		
24" O.C.	SPF	#1 / #2	7' 3"	7' 7"	8' 1"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 7"	7' 1"	8' 10"	10' 1"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"
	DFL	#1	4' 6"	7' 4"	7' 8"	8' 1"	9' 0"	10' 4"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 11"	10' 3"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 7"	7' 1"	8' 10"	10' 1"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"
	DFL	#1	4' 6"	7' 4"	7' 8"	8' 1"	9' 0"	10' 4"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 11"	10' 3"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 7"	7' 1"	8' 10"	10' 1"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"
	DFL	#1	4' 6"	7' 4"	7' 8"	8' 1"	9' 0"	10' 4"	11' 10"	12' 8"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades		Group A		Group B	
Service-Frame	SPF	#1 / #2	Standard	#3	Standard
	HF	#3	Standard	#3	Standard
Douglas Fir-Larch	SP	#1	Standard	#3	Standard
	DFL	#1	Standard	#3	Standard

Group B		Group C	
Service-Frame	SPF	#1 / #2	Standard
	HF	#3	Standard
Douglas Fir-Larch	SP	#1	Standard
	DFL	#1	Standard

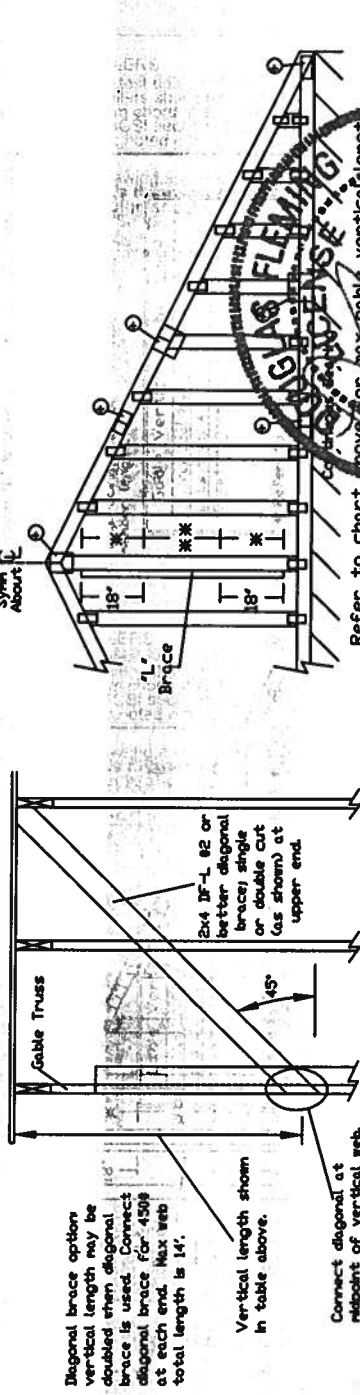
1x4 Braces shall be SPS (Stress-Rated Board).
For 1x4 SPS, use only Industrial S5 or Industrial S3 Stress-Rated Board. Group B values may be used with these grades.

Gable Truss Detail Notes

Wind Load deflection criterion is L/240.

Provide uplift connections for SS pif over continuous bearing (3 psf TC Dead Load).

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

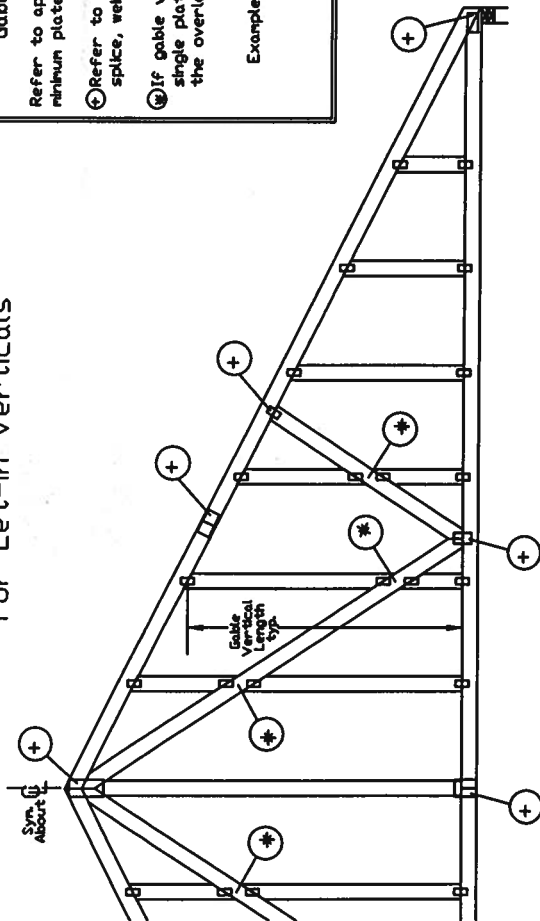


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Suite 200
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IMPORTANT:

Gable Detail For Let-in Verticals

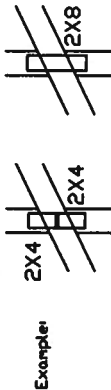


Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

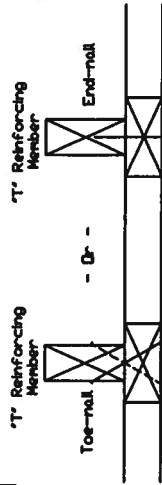
Ⓢ Refer to Engineered truss design for peak, splice, web, and heel plates.

Ⓢ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



Example:

'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. Mem. Size	Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30' ft, Kzt = 1.00

Gable Vertical = 28'-0" 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 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148" x 3.14") Nails at 4' o.c. plus (4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148" x 3.14") 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, A10015051014, A14015051014,

A13030051014, A12030051014, A10030051014, A14030051014

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,

A18015ENC100118, A20015ENC100118, A22015ENC100118, A24015ENC100118,

A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,

A18030ENC100118, A20030ENC100118, A22030ENC100118, A24030ENC100118,

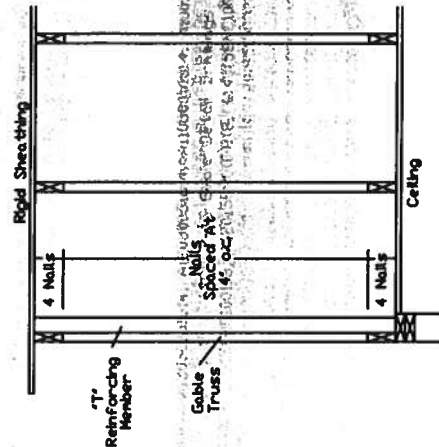
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S18015ENC100118, S20015ENC100118, S22015ENC100118, S24015ENC100118,

S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,

S18030ENC100118, S20030ENC100118, S22030ENC100118, S24030ENC100118

See appropriate Alpine gable detail for maximum gable vertical length.



IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING

Trusses require extreme care in fabricating, erecting, and bracing. Truss erection shall follow the latest edition of ASI Glazing Code. Truss erection shall be done by experienced truss erectors prior to performing these functions. Truss erectors shall provide temporary bracing and shall have a properly attached roof ceiling. Locations shown for permanent lateral resistance shall be used for all trusses. Truss erectors shall be responsible for the proper installation of truss and position as shown above and to the right. Refer to drawings 16A-2 for standard plate positions.

Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviations from this drawing, any failure to build the truss in accordance with ASI/TPI L or for handling, shipping, installation, bracing of trusses. This drawing includes acceptance of professional engineering responsibility for the design of the truss. The responsibility of the building designer for any structure is the responsibility of the building designer per ASI/TPI L Sec 2. For more

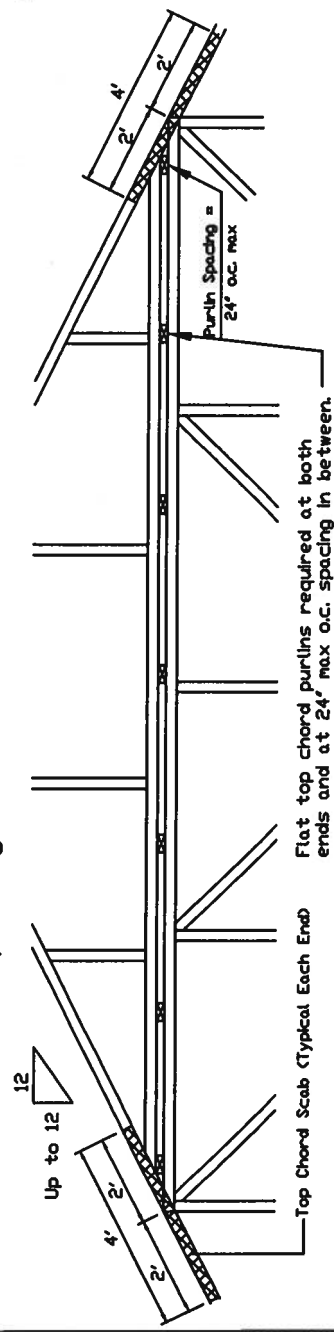
Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

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

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

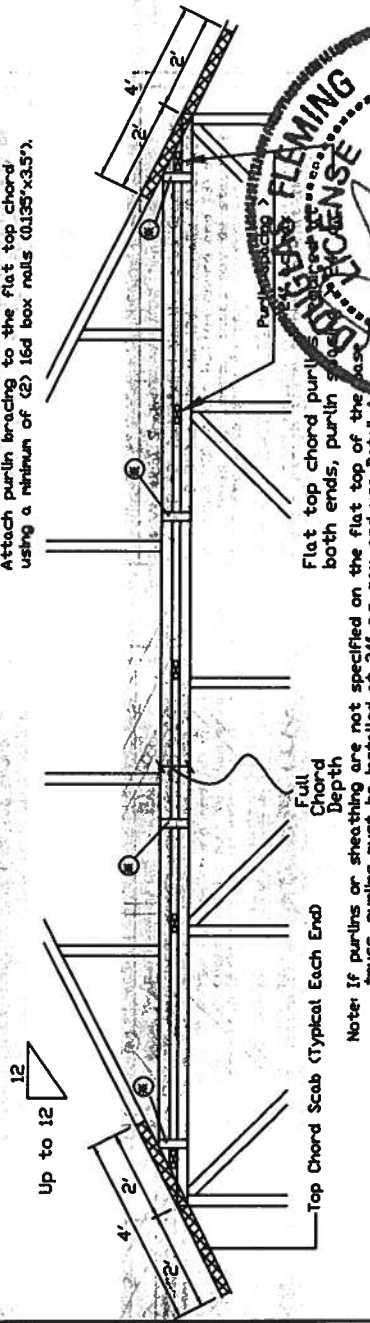


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c. Attach purlin bracing to the flat top chord using (2) 16d box nails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

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3x8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 2x8B wave piggyback plate attached to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note Nailing thru holes of wave plate is acceptable.

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

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

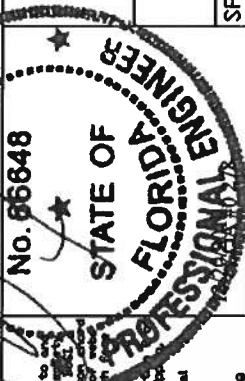


Flat top chord purlins must be braced at both ends, purlin bracing must be installed at 24' o.c. max and use Detail A. Note: If purlins or sheathing are not specified on the flat top of the truss, purlins must be installed at 24' o.c. max and use Detail A.

- In addition, provide connection with one of the following methods:
 - Trulox: Use 3x8 Trulox plates for 2x4 chord member, and 3x10 Trulox plates for 2x6 and larger chord members. Attach to each face 8" o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Gaskets may be staggered 4' o.c. front to back faces.
 - APA Rated Gasket: 8"x8"x7/16" (min) APA rated sheathing gaskets (each face). Attach 8" o.c. with (8) 0.120"x1.375" nails into cap bottom chord and (8) in base truss top chord. Gaskets may be staggered 4' o.c. front to back faces.
 - 2x4 Vertical Scabs: 2x4 SPF #2 (min) chord depth scabs (each face). Attach 8" o.c. with (6) 16d box nails (0.128"x3.5") into cap bottom chord and (6) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
 - 2x8B Wave Piggyback Plate: One 2x8B wave piggyback plate to each face 8" o.c. Attach teeth to piggyback at the 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.



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IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING. Truss drawings require extreme care in fabricating, handling, shipping, bracing, and bracing. Refer to the latest edition of ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.0. Truss drawings require extreme care in fabricating, handling, shipping, bracing, and bracing. Refer to the latest edition of ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.0. Truss drawings require extreme care in fabricating, handling, shipping, bracing, and bracing. Refer to the latest edition of ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 50 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, Wind DL= 50 psf (min), Kzt=1.0.

REF	PIGGYBACK
DATE	10/01/14
DRWG	PBI60101014

SPACING 24.0'

