



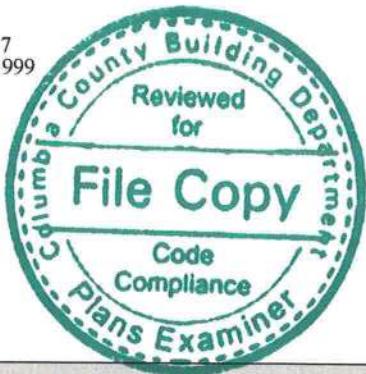
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Alpine, an ITW Company
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)755-6001
www.alpineitw.com

FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999
02/01/2023



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 22-8548B
Job Description: Ricky Mershon	
Address: FL	

Job Engineering Criteria:		
Design Code:	FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.02.01 through 22.02.00
Wind Standard:	ASCE 7-16	JRef #: 1XMU2150006
Building Type:	Closed	Wind Speed (mph): 130
		Design Loading (psf): 40.00

This package contains general notes pages, 7 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	032.23.0922.57020	A01
3	032.23.0923.01870	A03
5	032.23.0923.49583	B01
7	032.23.0925.23730	C02
9	CNNAILSP1014	
11	GBLLETIN0118	

Item	Drawing Number	Truss
2	032.23.0923.49645	A02
4	032.23.0923.49599	A04
6	032.23.0925.04480	C01
8	BRCLBSUB0119	
10	A14030ENC160118	
12	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 all load cases.

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

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for 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.

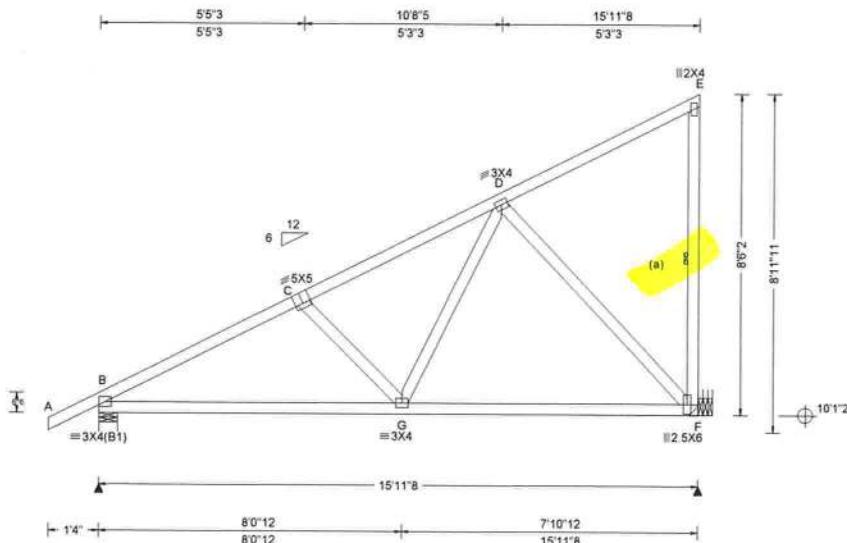
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpininst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 690132 FROM: CDM	MONO Qty: 2	Ply: 1 Job Number: 22-8548B Ricky Mershon Truss Label: A01	Cust: R 215 JRef: 1XMU215006 T1 DrwNo: 032.23.0922.57020 SSB / YK 02/01/2023
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Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

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

Wind

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

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 8-6-2.



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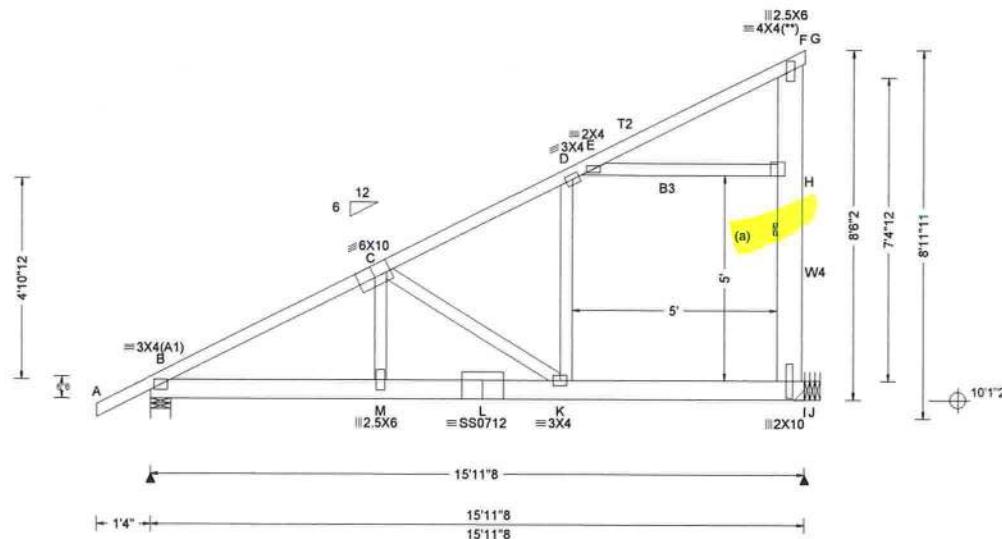
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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

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

The logo for Alpine, an ITW company. It features the word "ALPINE" in a bold, sans-serif font, with a registered trademark symbol (®) at the top right. Below "ALPINE" is the text "AN ITW COMPANY" in a smaller, all-caps font.



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity		Non-Gravity			
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.316 K 598 240	Loc	R+	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.637 K 296 180						
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.151 D - -						
Des Ld:	40.00	EXP: C Kzt: NA	Building Code:	HORZ(TL): 0.306 D - -						
NCBCLL:	10.00	Mean Height: 15.00 ft	FBC 7th Ed. 2020 Res.	Creep Factor: 2.0						
TCDL:	5.0 psf	TPI Std: 2014	Rep Fac: Yes	Max TC CSI: 0.375						
Soffit:	2.00	Rep Fac: Yes	FT/RT:20(0)/10(0)	Max BC CSI: 0.499						
Load Duration: 1.25		Plate Type(s):	Plate Type(s):	Max Web CSI: 0.902						
Spacing: 24.0 "		WAVE, 18SS	VIEW Ver: 21.02.01.1216.14							

Lumber

Top chord: 2x4 SP #2; T2 2x4 SP M-31;
 Bot chord: 2x6 SP 2400f-2.0E; B3 2x4 SP #2;
 Webs: 2x4 SP #3; W4 2x8 SP 2400f-2.0E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

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

Loading

Attic room loading from 10-3-8 to 15-3-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

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 8'-6-1/2".



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SEQN: 681456 /	MONO	Ply: 1	Job Number: 22-8548B	Cust: R 215 JRef: 1XMU2150006 T8 /
FROM: CDM		Qty: 17	Ricky Mershon	DrwNo: 032.23.0923.49645
Page 2 of 2			Truss Label: A02	GA / DF 02/01/2023

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=15'8"8 uses the following support conditions: 15'8"8

Bearing J (15'8"8, 10'1"2) HUS26

Supporting Member: (3)2x6 SP 2400f-2.0E

(14) 0.148"x3" nails into supporting member,

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



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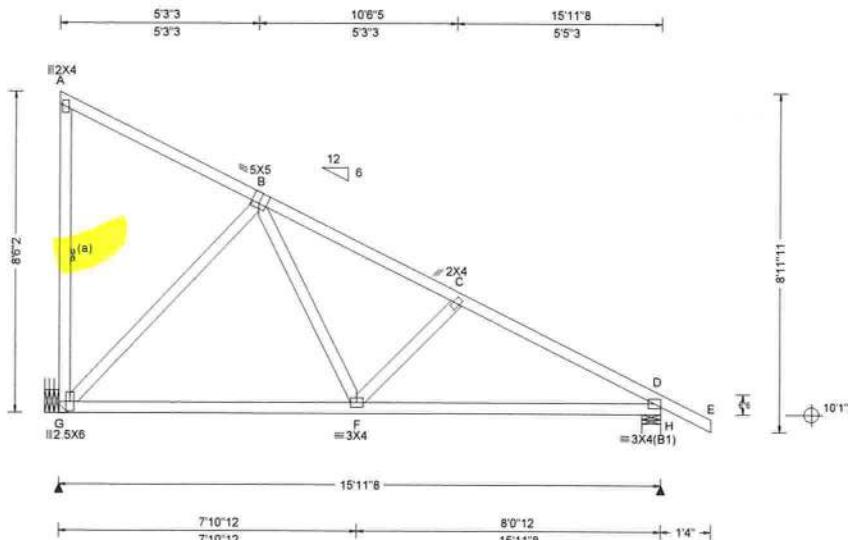
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SEQN: 690151	MONO	Ply: 1	Job Number: 22-8548B	Cust: R 215 JRef: 1XMU2150006 T4
FROM: CDM		Qty: 2	Ricky Mershon	DrwNo: 032.23.0923.01870
			Truss Label: A03	SSB / YK 02/01/2023



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity				
TCDL:	10.00	Speed:	130 mph	Pf: NA	Ce: NA	VERT(LL): 0.024 C 999 240	Loc R+ /R-	/ Rh	/ Rw	/ U	/ RL	G	649
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA	VERT(CL): 0.049 C 999 180	H	754	-	/466	/186	/305	
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA	HORZ(LL): 0.018 A - -	G	Brg Wid = -	Min Req = -	H	754	/71	
Des Ld:	40.00	EXP: C Kzt: NA				HORZ(TL): 0.037 A - -	H	Brg Wid = 6.0	Min Req = 1.5 (Truss)				
NCBLL:	10.00	Mean Height: 15.00 ft		Building Code:		Creep Factor: 2.0							
NCBCLL:	10.00	TCDL: 5.0 psf		FBC 7th Ed. 2020 Res.		Max TC CSI: 0.441							
Soffit:	2.00	BCDL: 5.0 psf		TPI Std: 2014		Max BC CSI: 0.750							
Load Duration:	1.25	MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.692							
Spacing:	24.0 "	C&C Dist a: 3.00 ft		FT/RT: 20(0)/10(0)									
		Loc. from endwall: Any		Plate Type(s):									
		GCpi: 0.18		WAVE									
		Wind Duration: 1.60				VIEW Ver: 22.02.00.0914.12	B - C	176	-755	C - D	241	-981	

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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



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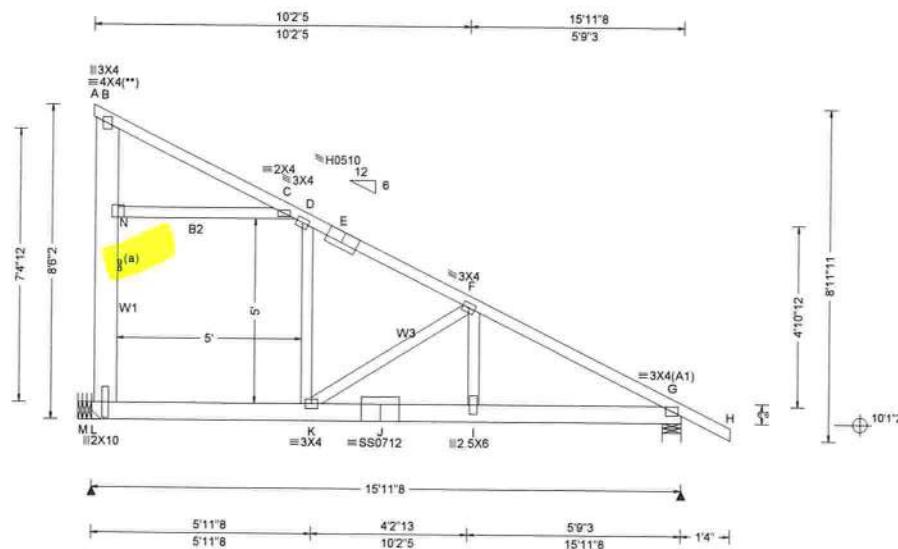
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SEQN: 689478 / FROM: CDM Page 1 of 2	MONO Ply: 1 Qty: 17	Job Number: 22-8548B Ricky Mershon Truss Label: A04	Cust: R 215 JRef: 1XMU2150006 T2 / DrwNo: 032.23.0923.49599 GA / DF 02/01/2023
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA	PP Deflection in loc L/defl L/#	Gravity Loc	R+	/R-	/Rh	/Rw	Non-Gravity /U /RL	
TCDL:	10.00	Speed: 130 mph	Ct: NA	VERT(LL): 0.315 K 599 240	M	1288	/-	/0	/465	/185 /305	
BCLL:	0.00	Enclosure: Closed	CAT: NA	VERT(CL): 0.635 K 297 180	G	910	/-	/-	/466	/72 /-	
BCDL:	10.00	Risk Category: II	Pf: NA	HORZ(LL): -0.151 D - -	Wind reactions based on MWFRS						
Des Ld:	40.00	EXP: C Kzt: NA	Ce: NA	HORZ(CL): 0.304 D - -	M	Brg Wid = -	Min Req = -	Bearing G is a rigid surface.			
NCBCLL:	10.00	Mean Height: 15.00 ft	Lu: NA	Creep Factor: 2.0	Members not listed have forces less than 375#						
TCDL:	5.0 psf	TCDL: 5.0 psf	Cs: NA	Max TC CSI: 0.363	Maximum Top Chord Forces Per Ply (lbs)						
Soffit:	2.00	BCDL: 5.0 psf	Snow Duration: NA	Max BC CSI: 0.500	Chords	Tens. Comp.	Chords	Tens. Comp.			
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2	Building Code: FBC 7th Ed. 2020 Res.	Max Web CSI: 0.902	B - C	1201	-555	E - F	11	-716	
Spacing: 24.0 "		C&C Dist a: 3.00 ft	TP1 Std: 2014		D - E	16	-620	F - G	269	-1364	
		Loc. from endwall: Any	Rep Fac: Yes								
		GCpi: 0.18	FT/RT:20(0)/10(0)								
		Wind Duration: 1.60	Plate Type(s):								
			WAVE, HS, 18SS								
				VIEW Ver: 22.02.00.0914.12							

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x6 SP 2400f-2.0E; B2 2x4 SP #2;
Webs: 2x4 SP #3; W1 2x8 SP 2400f-2.0E;
W3 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

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

Loading

Attic room loading from 0-8-0 to 5-8-0: Live Load: 40 PSF, Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Wind

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

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 8'-6-2".



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SEQN: 689478 /	MONO	Ply: 1	Job Number: 22-8548B	Cust: R 215 JRef:1XMU2150006 T2 /
FROM: CDM		Qty: 17	Ricky Mershon	DrwNo: 032.23.0923.49599
Page 2 of 2			Truss Label: A04	GA / DF 02/01/2023

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=1"8 uses the following support conditions: 1"8

Bearing M (1"8, 10'1"2) HUS26

Supporting Member: (3)2x6 SP 2400f-2.0E

(14) 0.148"x3" nails into supporting member,

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
Florida Certificate of Product Approval #FL 1999

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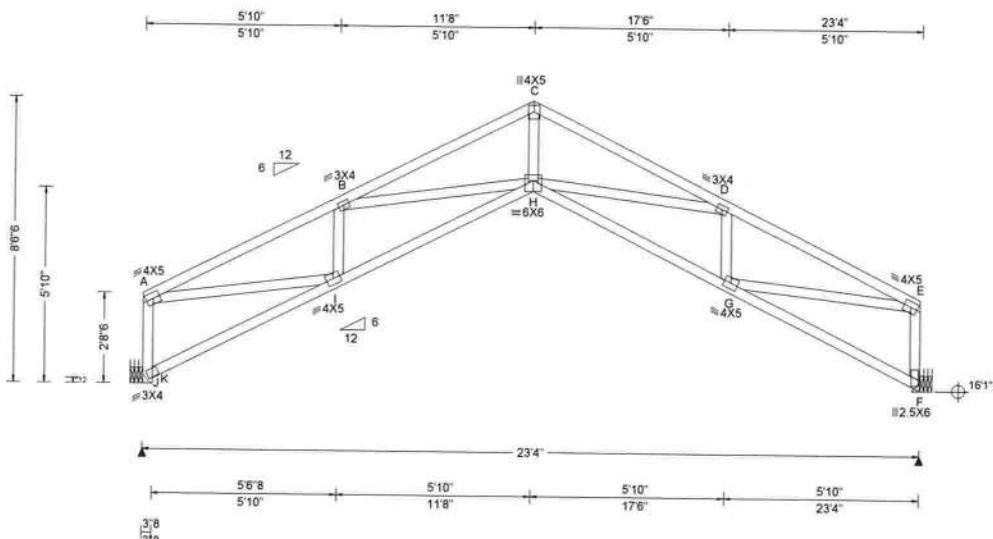
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SEQN: 690149 / FROM: CDM	COMM Ply: 1 Qty: 19	Job Number: 22-8548B Ricky Mershon Truss Label: B01	Cust: R 215 JRef: 1XMU2150006 T7 / DrwNo: 032.23.0923.49583 GA / DF 02/01/2023
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	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): 0.176 H 999 240	K	988	/-	/-	/550	/259	/147
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.371 H 750 180	F	982	/-	/-	/550	/253	/-
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.203 F - -	Wind reactions based on MWFRS						
Des Ld:	40.00	EXP: C Kzt: NA	Building Code:	HORZ(CL): 0.428 F - -	K	Brg Wid = -	Min Req = -				
NCBCLL:	10.00	Mean Height: 21.71 ft	FBC 7th Ed. 2020 Res.	Creep Factor: 2.0	F	Brg Wid = -	Min Req = -				
TCDL:	5.0 psf	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.545	Members not listed have forces less than 375#						
Soffit:	2.00	BCDL: 5.0 psf	Rep Fac: Yes	Max BC CSI: 0.593	Maximum Top Chord Forces Per Ply (lbs)						
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.810	Chords	Tens.Comp.	Chords	Tens. Comp.			
Spacing: 24.0 "		C&C Dist a: 3.00 ft	Plate Type(s):		A - B	954 - 2141	C - D	1195 - 2833			
		Loc. from endwall: Any	WAVE		B - C	1167 - 2833	D - E	946 - 2177			
		GCpi: 0.18		VIEW Ver: 21.02.01.1216.14							

Lumber

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

Hangers / Ties

(J) Hanger Support Required, by others

Wind

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.

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



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FL00001Q Certificate of Product Approval #FL 1999

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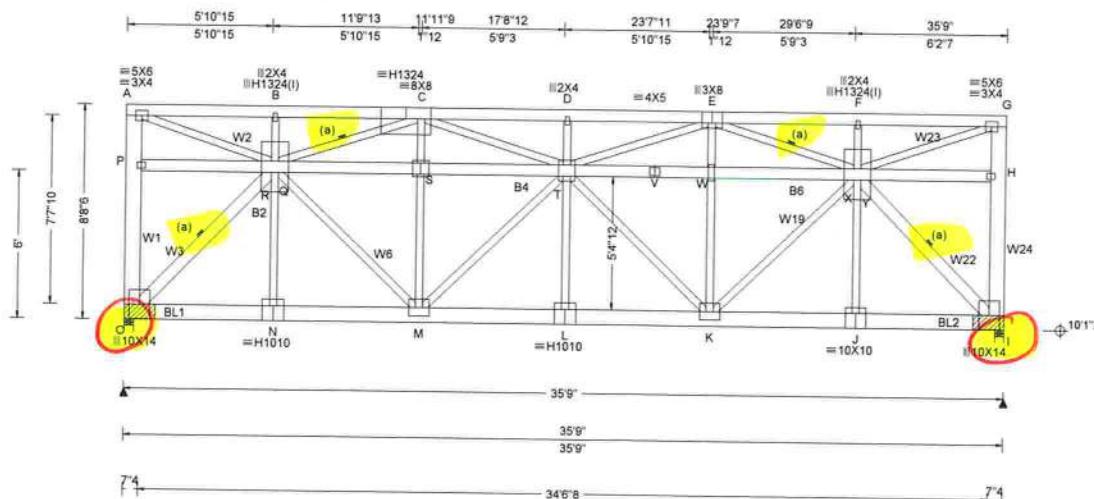
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3 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity				
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.196 T 999 240	Loc R+ / R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.392 T 999 180	O 21754 /- /- /- /4369 /-		I 21768 /- /- /- /4368 /-			
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.063 A - -	Wind reactions based on MWFRS		O Brg Wid = 4.5 Min Req = -			
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.127 A - -	I Brg Wid = 4.5 Min Req = -		Bearings O & I are a rigid surface.			
NCBCLL:	0.00	Mean Height: 18.79 ft		Creep Factor: 2.0	Members not listed have forces less than 375#		Maximum Top Chord Forces Per Ply (lbs)			
TCDL:	5.0 psf	BCDL: 5.0 psf	Building Code: FBC 7th Ed. 2020 Res.	Max TC CSI: 0.255	Chords Tens.Comp. Chords Tens. Comp.		A-B 497 -2538 D-E 1016 -5196			
Soffit:	2.00	Load Duration: 1.25	TPI Std: 2014	Max BC CSI: 0.532	B-C 497 -2538 E-F 497 -2539		C-D 1016 -5196 F-G 497 -2539			
Load Duration:	1.25	Spacing: 24.0 "	Rep Fac: Yes	Max Web CSI: 0.952	VIEW Ver: 22.02.00.0914.12					
Des Ld:	40.00	Mean Height: 18.79 ft	FT/RT: 20(0)/10(0)							
NCBCLL:	0.00	BCDL: 5.0 psf	Plate Type(s):							
TCDL:	5.0 psf	MFWS Parallel Dist: 0 to h/2	WAVE, HS							
Soffit:	2.00	C&C Dist a: 3.58 ft								
Load Duration:	1.25	Loc. from endwall: not in 12.50 ft								
Des Ld:	40.00	GCpi: 0.18								
NCBCLL:	0.00	Wind Duration: 1.60								

Lumber

Top chord: 2x6 SP #2;
 Bot chord: 2x8 SP 2400f-2.0E; B2,B4,
 B6 2x6 SP #2;
 Webs: 2x4 SP #3; W1,W24 2x8 SP #2; W2,W6,W19,
 W23 2x4 SP #2; W3,W22 2x6 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule: 0.131" x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 2 Rows @ 2.50" o.c. (Each Row)
 Webs : 1 Row @ 4" o.c.
 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)
 TC: From 30 plf at 0.00 to 30 plf at 35.75
 BC: From 10 plf at 0.00 to 10 plf at 35.15
 BC: From 20 plf at 35.15 to 20 plf at 35.75
 BC: 1698 lb Conc. Load at 0.44,35.31
 BC: 2276 lb Conc. Load at 1.94, 3.94, 5.94, 7.94
 9.94, 11.94, 13.94, 15.94, 17.94, 19.81, 21.81, 23.81
 25.81, 27.81, 29.81, 31.81, 33.81

Wind

Wind loads and reactions based on MWFRS.
 End verticals not exposed to wind pressure.

Plating Notes

All plates are 8X10 except as noted.
 (I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

* WARNING* A reaction exceeds 20000 lbs.

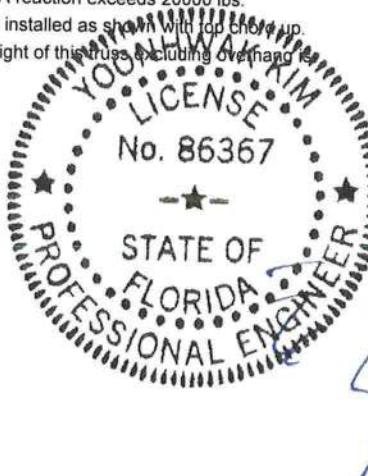
Truss must be installed as shown with top chord up.
 The overall height of this truss excluding overhang is 8-8-6.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	5224 -1025	L - K	8796 - 1724
N - M	5224 -1025	K - J	5226 - 1026
M - L	8796 - 1724	J - I	5226 - 1026

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - P	198 - 975	T - V	439 - 2253
A - R	2684 - 524	T - K	317 - 1619
O - P	199 - 983	V - W	439 - 2253
O - Q	1434 - 7308	E - W	1097 - 198
Q - N	2498 - 475	E - Y	603 - 3073
Q - C	603 - 3069	K - X	3460 - 672
Q - M	3455 - 671	W - K	1068 - 192
Q - S	439 - 2251	W - X	439 - 2253
C - S	1094 - 197	X - J	2495 - 474
M - T	318 - 1627	X - G	2685 - 524
S - M	1065 - 192	X - I	1435 - 7311
S - T	439 - 2251	H - G	198 - 976
T - L	2143 - 404	H - I	199 - 983



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SEQN: 690147	FLAT	Ply: 3	Job Number: 22-8548B	Cust: R 215 JRef:1XMU2150006 T5
FROM: CDM		Qty: 1	Ricky Mershon	DrwNo: 032.23.0925.04480
Page 2 of 2			Truss Label: C01	SSB / YK 02/01/2023

Bearing Block(s)

Brg blocks: 0.131"x3", min. nails

brg x-loc #blocks length/blk #nails/blk wall plate
 1 0.000' 2 15" 21 Rigid Surface
 2 35.375' 2 15" 21 Rigid Surface

Brg block to be same size and species as chord.
 Refer to drawing CNNAILSP1014 for more information.

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

Laterally brace top chord below filler and bottom chord
 above filler at 24" o.c., including a lateral brace
 at chord ends (If no rigid diaphragm exists at that point).



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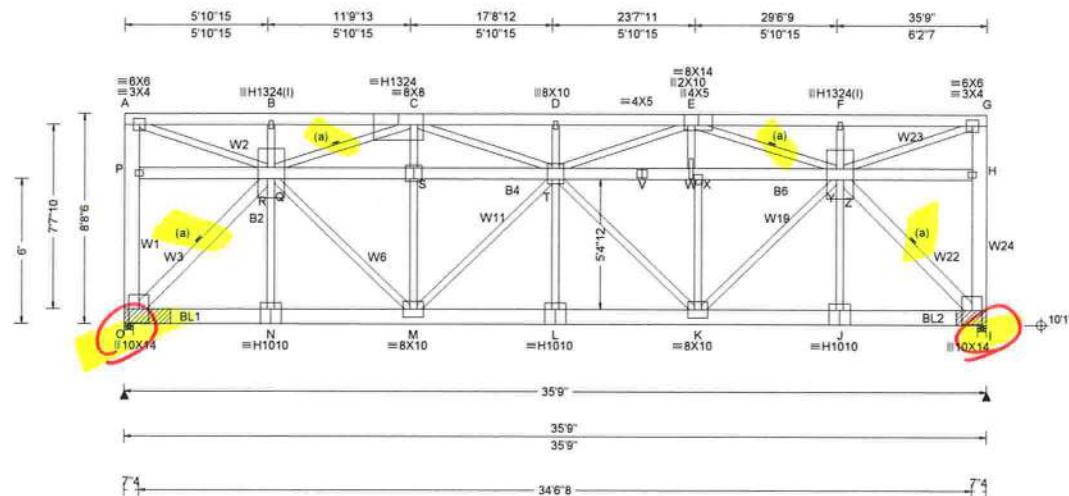
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3 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)									
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Loc O	R+ I-	/ Rh /	/ Rw / U	/ RL /	Non-Gravity				
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.198 T 999 240	O 21533	/ -	/ -	/ -	/ -	/4258 / -				
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.396 T 999 180	I 21823	/ -	/ -	/ -	/ -	/4359 / -				
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.065 A - -	Wind reactions based on MWFRS									
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.129 A - -	O Brg Wid = 4.5 Min Req = -	I Brg Wid = 4.5 Min Req = -	Bearings O & I are a rigid surface.							
NCBCLL:	0.00	Mean Height: 18.79 ft		Creep Factor: 2.0	Members not listed have forces less than 375#									
TCDL:	5.0 psf	TCDL: 5.0 psf	Building Code: FBC 7th Ed. 2020 Res.	Max TC CSI: 0.276	Maximum Top Chord Forces Per Ply (lbs)									
Soffit:	2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.534	Chords A - B	Tens. Comp. 504	Chords D - E	Tens. Comp. 1030	Chords 1030	- 5307				
Load Duration: 1.25		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.949	B - C	504 - 2595	E - F	504	E - F	504 - 2595				
Spacing: 24.0"		C&C Dist a: 3.58 ft	FT/RT: 20(0)/10(0)		C - D	1030 - 5307	F - G	504	F - G	504 - 2595				
		Loc. from endwall: not in 12.50 ft	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)									
		GCpi: 0.18	WAVE, HS	VIEW Ver: 22.02.00.0914.12	Chords A - B	Tens. Comp. 504 - 2595	Chords D - E	Tens. Comp. 1030 - 5307	Chords 1030	- 5307				
		Wind Duration: 1.60			B - C	504 - 2595	E - F	504	E - F	504 - 2595				
					C - D	1030 - 5307	F - G	504	F - G	504 - 2595				

Lumber

Top chord: 2x6 SP #2;
 Bot chord: 2x8 SP 2400F-2.0E; B2,B4,
 B6 2x6 SP #2;
 Webs: 2x4 SP #3; W1,W24 2x8 SP #2; W2,W6,W11,W19,
 W23 2x4 SP #2; W3,W22 2x6 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Nailnote

Nail Schedule: 0.131"x3", min. nails
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 2 Rows @ 2.50" o.c. (Each Row)
 Webs : 1 Row @ 4" o.c.
 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)
 TC: From 60 plf at 0.00 to 60 plf at 17.94
 TC: From 30 plf at 17.94 to 30 plf at 35.75
 BC: From 20 plf at 0.00 to 20 plf at 17.88
 BC: From 10 plf at 17.88 to 10 plf at 35.15
 BC: From 20 plf at 35.15 to 20 plf at 35.75
 BC: 982 lb Conc. Load at 0.44
 BC: 2270 lb Conc. Load at 1.94, 3.94, 5.94, 7.94
 9.94, 11.94, 13.94, 15.94, 17.94, 19.81, 21.81, 23.81
 25.81, 27.81, 29.81, 31.81, 33.81
 BC: 1632 lb Conc. Load at 35.31

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Bearing Block(s)

Brg blocks: 0.131"x3", min. nails
 brg x-loc #blocks length/blk #nails/blk wall plate
 1 0.000' 1 10 40 Rigid Surface
 2 35.375' 2 10 40 Rigid Surface
 Brg block to be same size and species as chord.
 Refer to drawing CNNAILSP1014 for more information.



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 FL00001Q2023 Certificate of Product Approval #FL 1999

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SEQN: 690145	FLAT	Ply: 3	Job Number: 22-8548B	Cust: R 215 JRef:1XMU2150006 T9
FROM: CDM		Qty: 1	Ricky Mershon	DrwNo: 032.23.0925.23730
Page 2 of 2			Truss Label: C02	SSB / YK 02/01/2023

Additional Notes

* **WARNING*** A reaction exceeds 20000 lbs.

Truss must be installed as shown with top chord up.

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

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).

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Florida Certificate of Product Approval #FL 1999

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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.

T-Reinforcement
or
I-Reinforcement

Notes

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

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

Use scarf 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 Size	Specified Restraint	CLR	T- or L- Reinf.	Alternative Reinforcement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4	2-2x4
2x3 or 2x4	2 rows	2x6		
2x6	1 row	2x4	1-2x6	2-2x4@60
2x6	2 rows	2x6		
2x8	1 row	2x6	1-2x8	2-2x6@80
2x8	2 rows	2x6		

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

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

Or

L-Reinforcement:

Apply to either side of web narrow face.
Attach with 10d (0.128" x 30°,min) nails
at 6" o.c. Reinforcing member is
a minimum 80% of web
member length.

T-Reinf.
or
L-Reinf.

T-Reinf.
L-Reinf.

Scab Reinforcement:

Apply scab(s) to wide face of web.
No more than (1) scab per face.
Attach with 10d (0.128" x 30°,min) nails
at 6" o.c. Reinforcing member is a
minimum 80% of web member length.

Scab Reinf.

JOHN HWA K KIM
LICENSE No. 86367



NAIL SPACING DETAIL

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

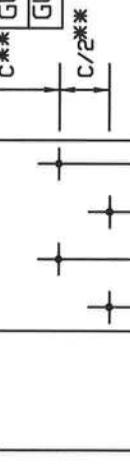
BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

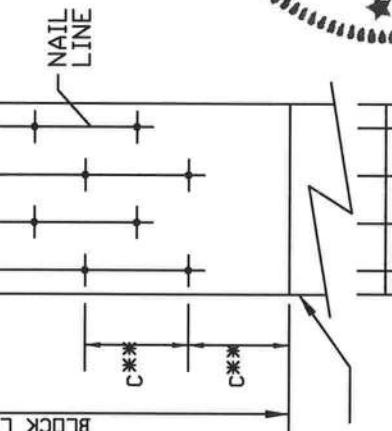
- A - EDGE DISTANCE (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

- A - EDGE DISTANCE (6 NAIL DIAMETERS)
 - C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)
 - D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)
- IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
- * SPACING MAY BE REDUCED BY 50%
- ** SPACING MAY BE REDUCED BY 33%



DIRECTION
OF LOAD AND
NAIL ROWS



BLOCK LENGTH

NAIL LINE

TRUSS MEMBER

BLOCK LENGTH

NAIL LINE

TRUSS MEMBER

BLOCK LENGTH

LOAD APPLIED PERPENDICULAR TO GRAIN

IMPORTANT: READ AND TELL ALL NOTES ON THIS DRAWING

FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of ICC Building Component Safety Information, by TPI and SECA for safety practices prior to performing these functions. Installers shall provide temporary bracing per SECA. Units noted otherwise, top chord shall have properly attached structural stretching and bottom chord small have properly attached rigid cables. Local sections shown for permanent lateral restraint of webs or trusses and position as shown above and on the joint details, unless noted otherwise.

Alpine, a division of ITW Building Components 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, installing, or 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 Designing Engineer per ANSI/TPI 1 Sec 2.

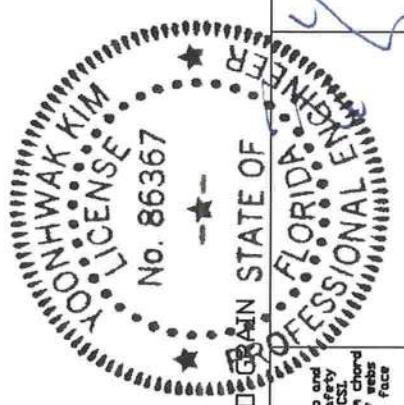
For more information see this job's general notes page and these web sites: www.alphalpne.com, www.spf.org, www.secacomponents.com, www.ansi.org, www.tpi.org.

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3.",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4.",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3.",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3.",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3.",MIN)	7/8"	1 5/8"	2"	1"

MINIMUM NAIL SPACING DISTANCES

REF	NAIL SPACE
DATE	10/01/14
DRWG	CNNAILSP1014



LOAD APPLIED PARALLEL TO GRAIN STATE OF FLORIDA

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ALPINE
AN ITW COMPANY

156 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Yoonhawak Kim, PE #86367
ALPINE www.alphalpne.com TPI www.spf.org SECA www.secacomponents.com ANSI www.ansi.org

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

Dri 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Dri 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Dri 100 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Gable Vertical Spacing	Brace Grade	Brace No.	Max Gable Vertical Length					
			(1) 1x4 'L' Brace	(1) 2x4 'L' Brace	(2) 2x4 'L' Brace	(2) 2x6 'L' Brace	(2) 2x6 'L' Brace	(2) 2x6 'L' Brace
2x4	O.C.	SPF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 6"	9' 9"
		HF	#3	3' 10"	6' 2"	6' 7"	8' 1"	9' 8"
24"	O.C.	SP	#1	3' 10"	6' 2"	6' 6"	8' 5"	9' 8"
		DFL	#2	4' 1"	7' 0"	7' 0"	7' 6"	9' 6"
24"	O.C.	SPF	#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"
		HF	#1	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"
32"	O.C.	SP	#1	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"
		DFL	#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"
32"	O.C.	SPF	#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"
		HF	#1	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"
40"	O.C.	SP	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"
		DFL	#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"
40"	O.C.	SPF	#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 7"
		HF	#1	4' 7"	6' 10"	7' 3"	9' 1"	9' 7"
48"	O.C.	SP	#1	4' 10"	6' 0"	7' 3"	9' 1"	9' 8"
		DFL	#2	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"
48"	O.C.	SPF	#3	4' 5"	6' 0"	6' 5"	6' 10"	7' 9"
		HF	#1	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"
56"	O.C.	SP	#1	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"
		DFL	#2	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"
56"	O.C.	SPF	#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"
		HF	#1	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"

Bracing Group Species and Grades:								
Group A			Group B			Group A		
Spruce-Pine-Fir			Spruce-Pine-Fir			Spruce-Pine-Fir		
#1 / #2 Standard			#1 / #2 Standard			#1 / #2 Standard		
#3 Standard			#3 Standard			#3 Standard		
Douglas Fir-Larch								
Southern Pine			Southern Pine			Southern Pine		
#3 Standard			#3 Standard			#3 Standard		

1x4 'L' braces shall be SRB Stress-Rated Board, min for 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Group A:
 Group B:
 Group C:
 Group D:
 Group E:
 Group F:
 Group G:
 Group H:
 Group I:
 Group J:
 Group K:
 Group L:
 Group M:
 Group N:
 Group O:
 Group P:
 Group Q:
 Group R:
 Group S:
 Group T:
 Group U:
 Group V:
 Group W:
 Group X:
 Group Y:
 Group Z:

Wind load deflection criterion is L/240. Provide uplift connections for 100 psf over continuous bearing (5 psf TC Dead Load). Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Vertical Plate Sizes

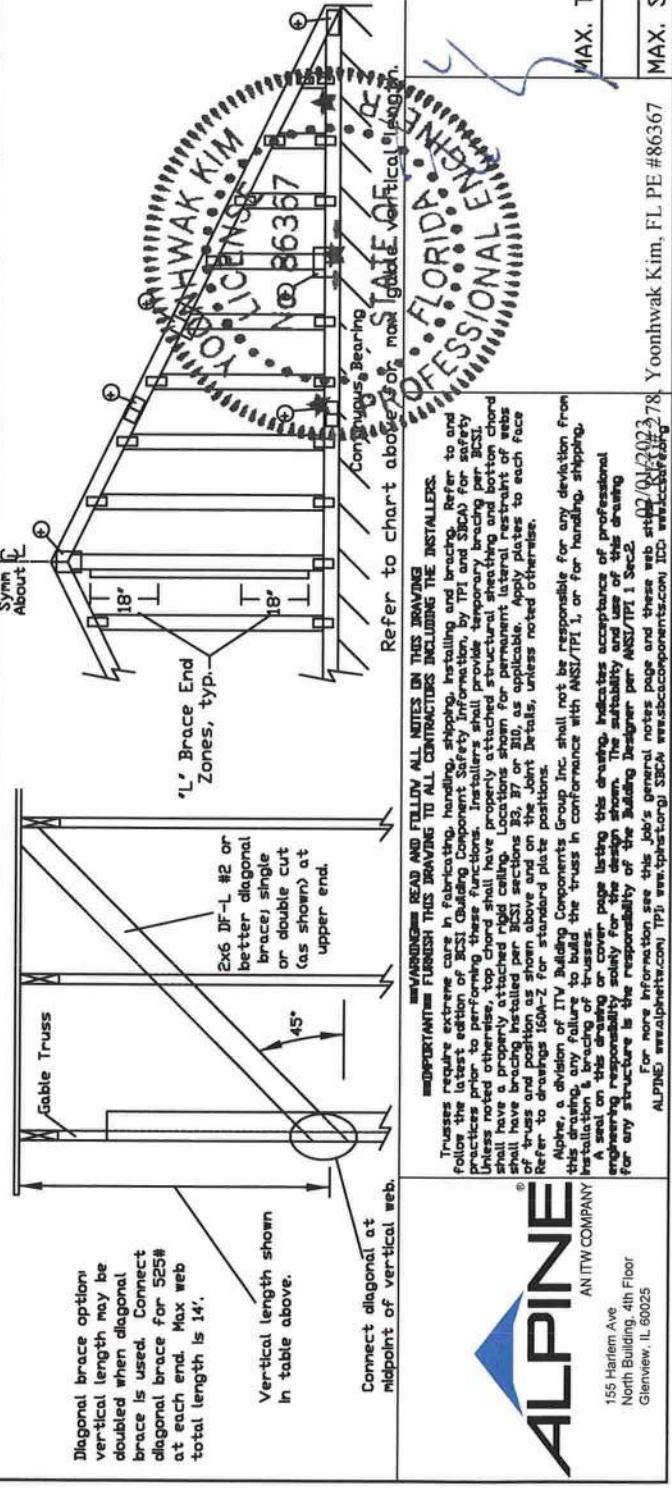
Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

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

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

MAX. TOT. LD. 60 PSF
 MAX. SPACING 24.0"



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