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ALPINE
AN ITW COMPANY

COA #0 278

Florida Certificate of Product Approval #FL 1999
04/27/2022

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

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	*Job Number:* 22-7494
Job Description: Lot 50 Emerald Cove - Garage Right	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res.	*IntelliVIEW Version:* 20.01.01A through 21.01.01A *JRef #:* 1Xf22150002
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 130 *Building Type:* Closed	*Design Loading (psf):* 40.00

This package contains general notes pages, 51 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	117.22.0835.45515	A01	2	117.22.0835.44673	A02
3	117.22.0835.44283	A03	4	117.22.0835.44282	A04
5	117.22.0835.44501	B01	6	117.22.0835.44189	B02
7	117.22.0835.44313	B03	8	117.22.0835.44657	C01
9	117.22.0835.44532	C02	10	117.22.0835.44516	C03
11	117.22.0835.44531	C04	12	117.22.0835.45548	E01
13	117.22.0835.45297	E02	14	117.22.0835.44765	E03
15	117.22.0835.44251	E04	16	117.22.0835.45656	E05
17	117.22.0835.45470	E06	18	117.22.0835.45406	E07
19	117.22.0835.45391	E08	20	117.22.0835.45640	E09
21	117.22.0835.45313	E10	22	117.22.0835.45094	E11
23	117.22.0835.45812	E12	24	117.22.0835.44906	E13
25	117.22.0835.45721	E14	26	117.22.0835.45472	E15
27	117.22.0835.45719	E16	28	117.22.0835.45689	E17
29	117.22.0835.45471	E18	30	117.22.0835.45937	E19
31	117.22.0835.44438	E20	32	117.22.0835.45140	E21
33	117.22.0835.45062	E22	34	117.22.0835.45203	E23
35	117.22.0835.45205	E24	36	117.22.0835.44734	E25
37	117.22.0835.45407	HJ01	38	117.22.0835.45688	HJ02
39	117.22.0835.45876	HJ03	40	117.22.0835.44344	J01
41	117.22.0835.44781	J02	42	117.22.0835.44515	J03
43	117.22.0835.44281	J04	44	117.22.0835.44750	J05
45	117.22.0835.44547	PB01	46	117.22.0835.44969	PB02
47	117.22.0835.44797	V01	48	117.22.0835.45877	V02
49	117.22.0835.45939	V03	50	117.22.0835.45001	V04

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www.alpineitw.com

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	*Job Number:* 22-7494
Job Description: Lot 50 Emerald Cove - Garage Right	
Address: FL	

Item	Drawing Number	Truss
51	117.22.0835.45095	V05
53	A14030ENC160118	
55	GBLLETIN0118	
57	VAL180160118	

Item	Drawing Number	Truss
52	A14015ENC160118	
54	BRCLBSUB0119	
56	PB160160118	
58	VALTN160118	

General Notes

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

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

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

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

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

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

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

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

General Notes (continued)

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

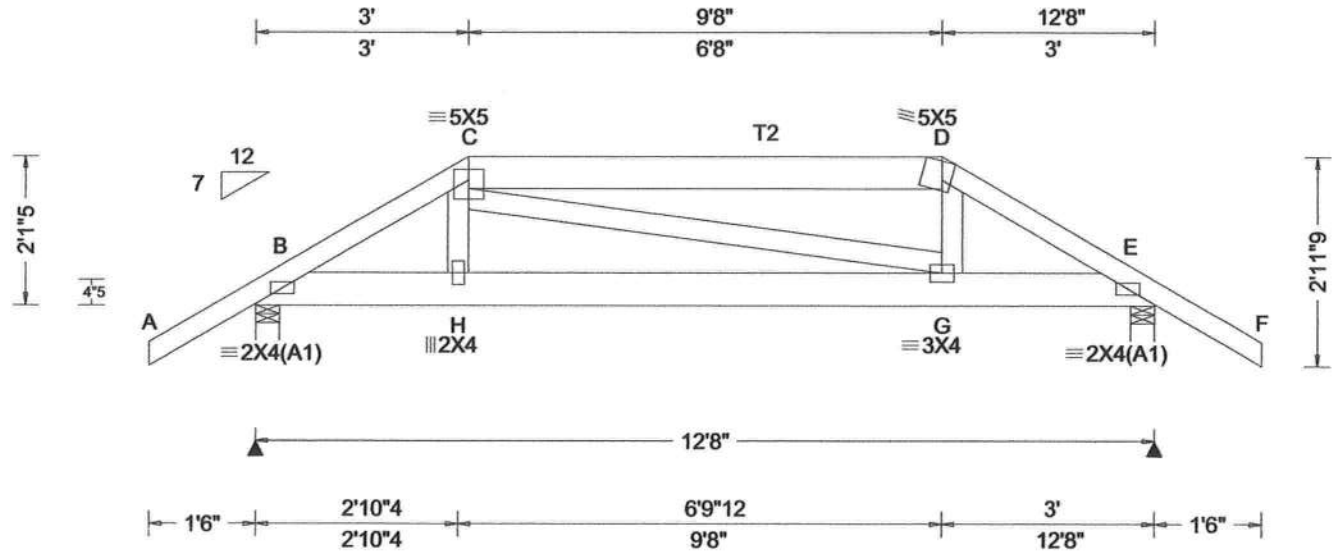
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 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.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 398080 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** A01	Cust: R 215 JRef: 1Xf22150002 T5 DrwNo: 117.22.0835.45515 JB / YK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.009 G	999	480
VERT(CL):	0.019 G	999	360
HORZ(LL):	0.003 E	-	-
HORZ(TL):	0.007 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.209
Max BC CSI: 0.090
Max Web CSI: 0.047

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	663 /-	/-	/-	/114	/-
E	663 /-	/-	/-	/114	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 4.0 Min Req = 1.5
Bearings B & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	87	-879	D - E	90	-876
C - D	71	-738			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	740	-68	G - E	738	-71
H - G	729	-74			

Lumber

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

Loading

#1 hip supports 3-0-0 jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-1-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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

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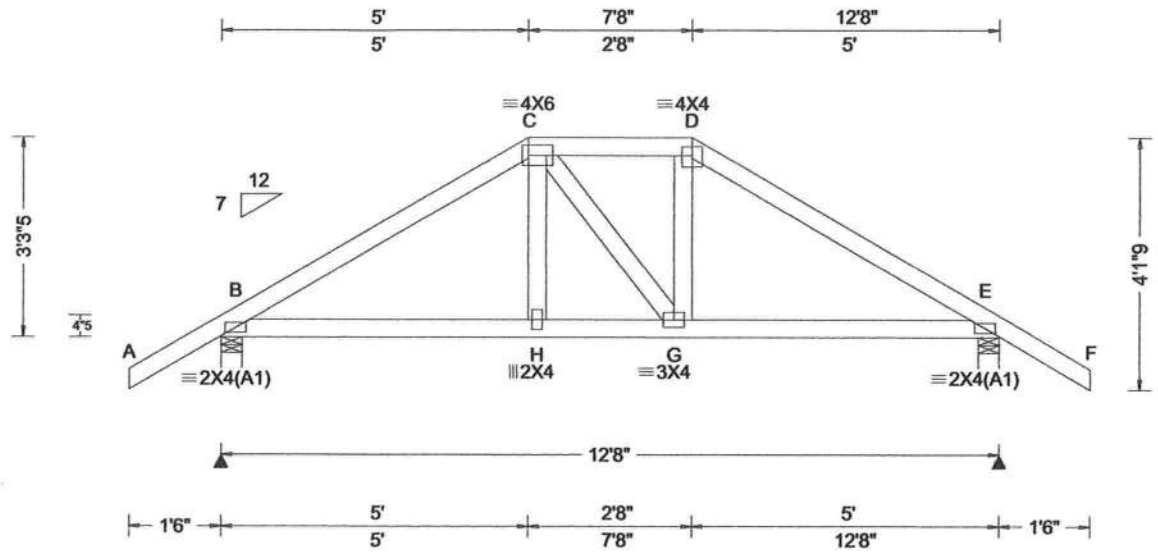
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 619236 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** A02	Cust: R 215 JRef: 1Xf22150002 T26 / DrwNo: 117.22.0835.44673 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.010	H	999	480
VERT(CL): 0.020	H	999	360
HORZ(LL): 0.005	G	-	-
HORZ(TL): 0.009	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.212
Max BC CSI: 0.261
Max Web CSI: 0.055

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	628 /-	/-	/392	/113	/119
E	628 /-	/-	/392	/113	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 4.0 Min Req = 1.5
Bearings B & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	329	-667	D - E	329	-665
C - D	330	-515			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - H	509	-158	G - E	508	-159
H - G	512	-157			

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-5.

COA #0278
04/27/2022
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ALPINE
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6750 Forum Drive
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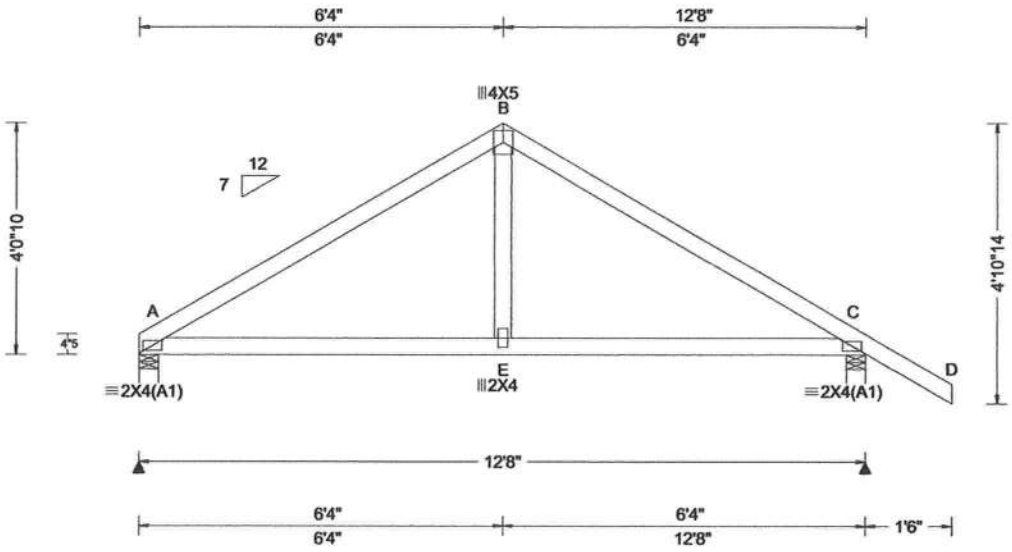
SEQN: 619238 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** A03	Cust: R 215 JRef: 1Xf22150002 T4 / DrwNo: 117.22.0835.44283 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.008 E	999	480
VERT(CL):	0.016 E	999	360
HORZ(LL):	0.006 E	-	-
HORZ(TL):	0.012 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.408
Max BC CSI: 0.420
Max Web CSI: 0.108

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
A	519 /-	/-	/302	/83	/122
C	636 /-	/-	/392	/113	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
C Brg Width = 4.0 Min Req = 1.5
Bearings A & C 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	206	-656	B - C	209	-660

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	495	-39	E - C	495	-39

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-0-10.

WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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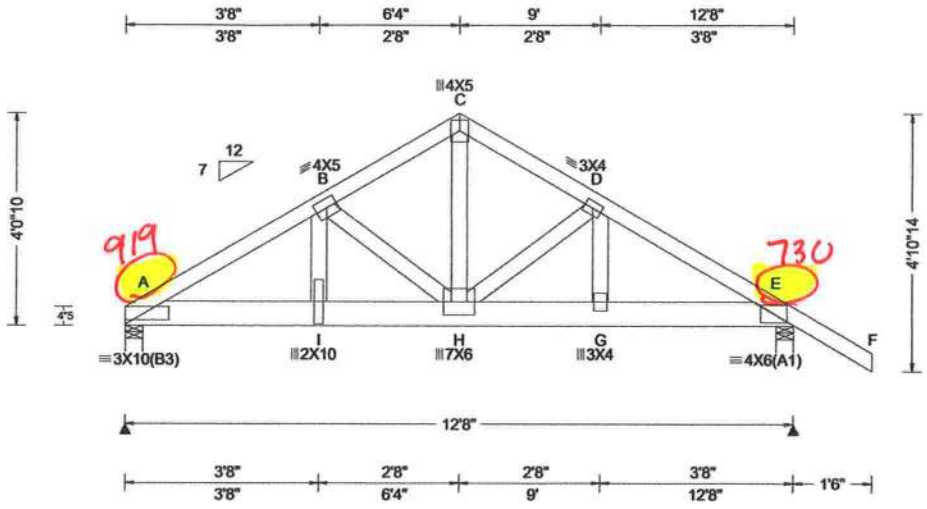
Suite 305
Orlando FL, 32821

SEQN: 619283 / COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** A04	Cust: R 215 JRef: 1Xf22150002 T36 / DrwNo: 117.22.0835.44282 JB / WHK 04/27/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.053	H	999	480
VERT(CL): 0.106	H	999	360
HORZ(LL): 0.015	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.388
Max BC CSI: 0.473
Max Web CSI: 0.935

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	4859	/-	/-	/-	/919	/-
E	3405	/-	/-	/-	/730	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 2.0
E Brg Width = 4.0 Min Req = 1.5
Bearings A & E 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	701	-3595	C - D	534	-2569
B - C	535	-2574	D - E	647	-3034

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - I	3091	-599	H - G	2573	-545
I - H	3053	-593	G - E	2589	-549

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - B	1120	-162	H - D	114	-466
B - H	177	-1089	D - G	480	-104
C - H	2455	-494			

Lumber

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

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 5.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	63 plf at	0.00 to	63 plf at	14.17
BC: From	10 plf at	0.00 to	10 plf at	7.60
BC: From	20 plf at	7.60 to	20 plf at	12.67
BC: From	5 plf at	12.67 to	5 plf at	14.17

BC: 1732 lb Conc. Load at 1.60
BC: 1442 lb Conc. Load at 3.60, 5.60
BC: 2569 lb Conc. Load at 7.60

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 4-0-10.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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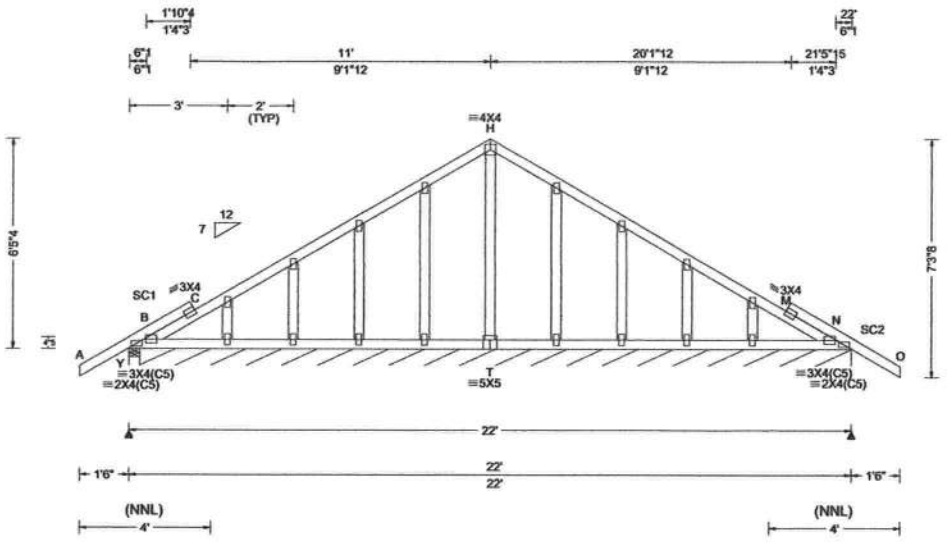
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 619219 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** B01	Cust: R 215 JRef: 1Xf22150002 T7 / DrwNo: 117.22.0835.44501 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	C	999	480
VERT(CL): 0.003	C	999	360
HORZ(LL): 0.000	L	-	-
HORZ(TL): 0.001	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.182
Max BC CSI: 0.038
Max Web CSI: 0.078

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Y	273	/-	/-	/185	/19	/45
N*	81	/-	/-	/45	/-	/-

Wind reactions based on MWFRS
Y Brg Width = 4.0 Min Req = 1.5
N Brg Width = 260 Min Req = -
Bearings Y & B are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is 6-5-4.

Truss designed to support 8" maximum gable end overhang.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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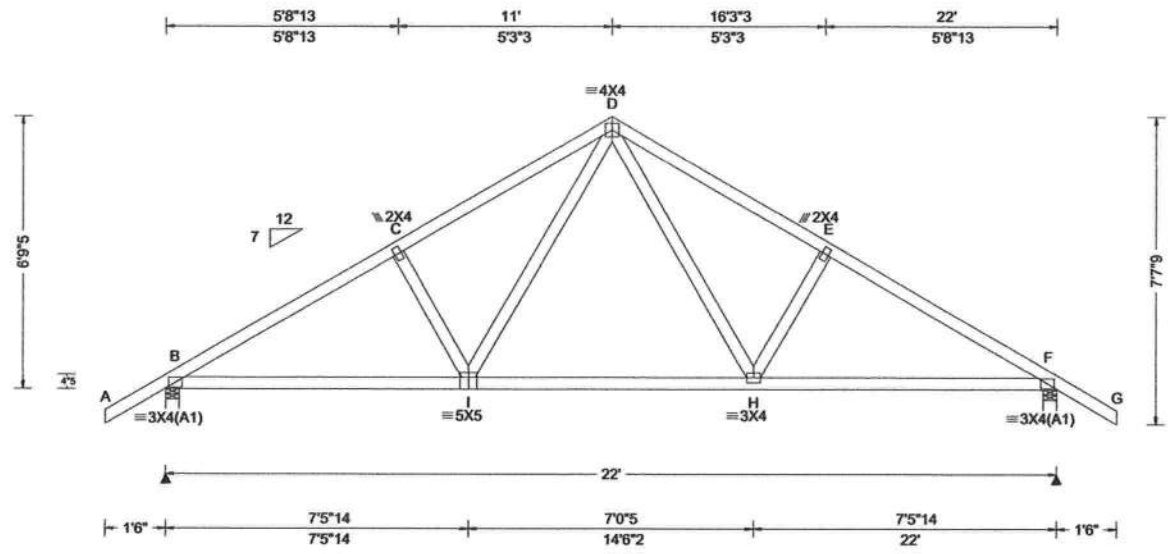
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619222 / COMN FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** B02	Cust: R 215 JRef: 1Xf22150002 T2 / DrwNo: 117.22.0835.44189 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	H	999	480
VERT(CL): 0.091	H	999	360
HORZ(LL): 0.019	H	-	-
HORZ(TL): 0.038	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.284
Max BC CSI: 0.625
Max Web CSI: 0.200

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1070	/-	/-	/612	/175	/209
F	1070	/-	/-	/612	/175	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
F Brg Width = 4.0 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	453	-1492	D - E	490	-1334
C - D	491	-1332	E - F	452	-1493

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - I	1217	-244	H - F	1217	-258
I - H	827	-59			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - D	523	-168	D - H	526	-167

Lumber

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

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-9-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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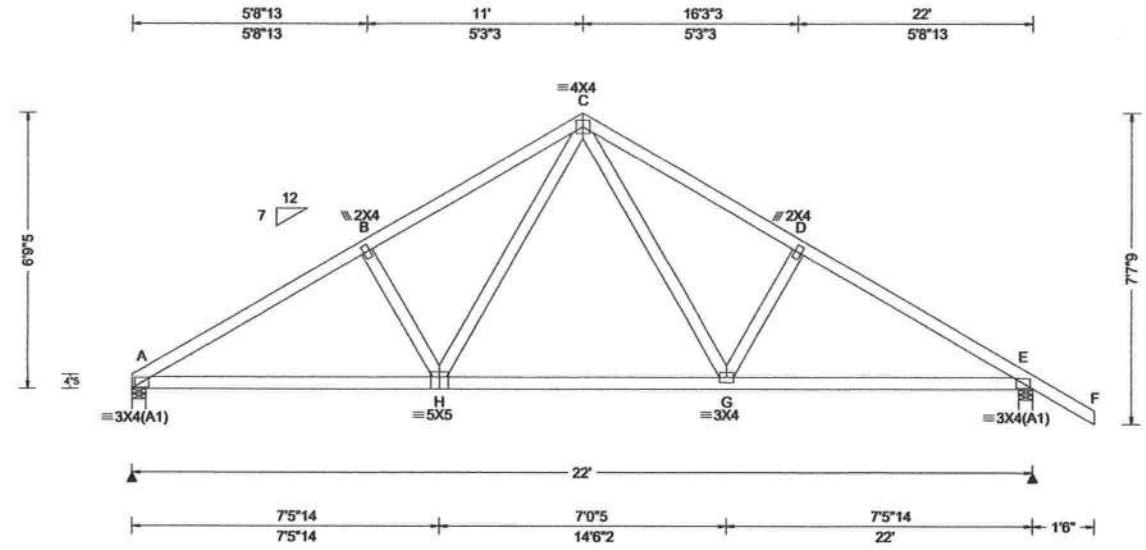
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619225 / COMN FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** B03	Cust: R 215 JRef: 1Xf22150002 T8 / DrwNo: 117.22.0835.44313 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.046	G	999	480
VERT(CL): 0.090	G	999	360
HORZ(LL): 0.019	G	-	-
HORZ(TL): 0.037	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.309
Max BC CSI: 0.624
Max Web CSI: 0.208

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	964	/-	/-	/526	/10	/193
E	1074	/-	/-	/612	/17	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
E Brg Width = 4.0 Min Req = 1.5
Bearings A & E 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	284	- 1514	C - D	313	- 1341
B - C	320	- 1354	D - E	277	- 1501

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - H	1241	- 140	G - E	1224	- 132
H - G	834	- 2			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - C	545	- 106	C - G	524	- 93

Lumber

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

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 6-9-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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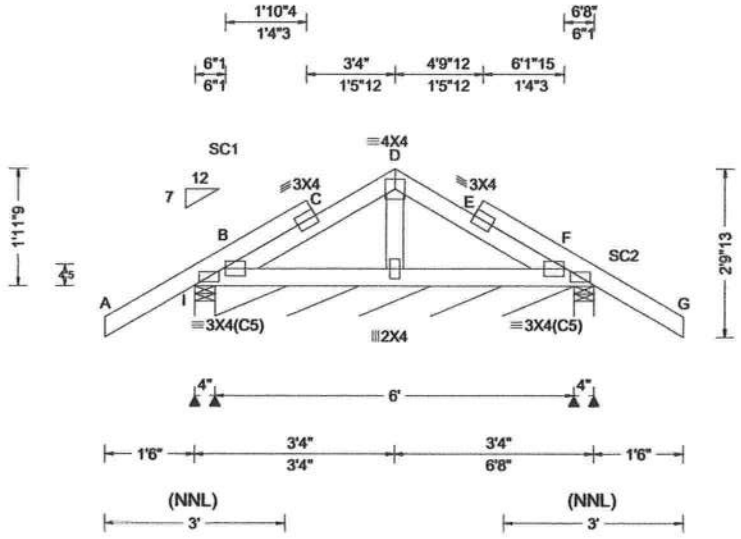
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619212 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** C01	Cust: R 215 JRef: 1Xf22150002 T13 / DrwNo: 117.22.0835.44657 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	C	999	480
VERT(CL): 0.006	C	999	360
HORZ(LL): -0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.283
Max BC CSI: 0.072
Max Web CSI: 0.035

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	248	/-	/-	/168	/30	/45
B*	44	/-	/-	/36	/-	/-
F	248	/-	/-	/174	/32	/-

Wind reactions based on MWFRS
I Brg Width = 4.0 Min Req = 1.5
B Brg Width = 72.0 Min Req = -
F Brg Width = 4.0 Min Req = 1.5
Bearings I, B, & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4(C5) 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.

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is 1-11-9.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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

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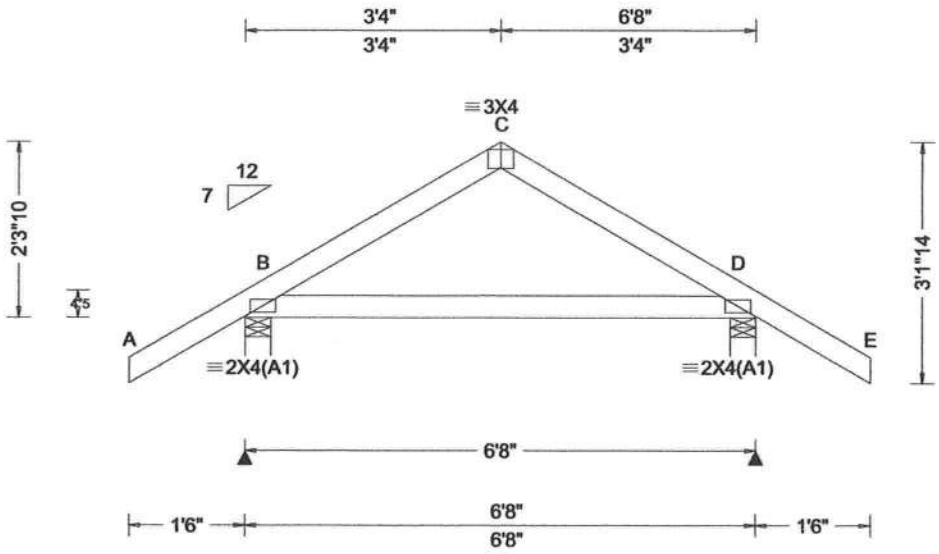
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619214 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** C02	Cust: R 215 JRef:1Xf22150002 T12 / DrwNo: 117.22.0835.44532 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.002	999	480
VERT(CL):	0.008	999	360
HORZ(LL):	-0.001	-	-
HORZ(TL):	0.005	-	-

Creep Factor: 2.0
Max TC CSI: 0.309
Max BC CSI: 0.277
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	379 /-	/-	/254	/69	/94
D	379 /-	/-	/254	/69	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 4.0 Min Req = 1.5
Bearings B & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-10.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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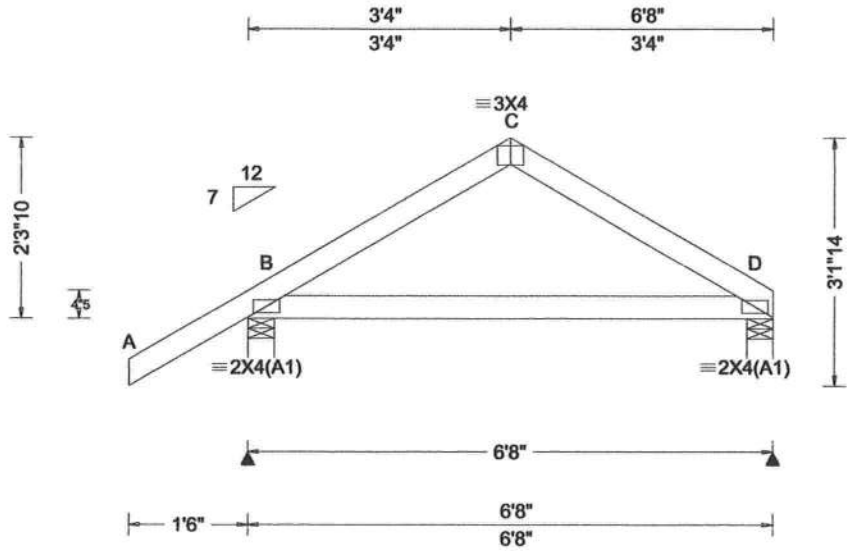
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619216 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** C03	Cust: R 215 JRef: 1Xf22150002 T14 / DrwNo: 117.22.0835.44516 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.003 999 480
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.009 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.007 - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.236
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.288
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	393	/-	/-	/255	/74	/77
D	263	/-	/-	/159	/39	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 4.0 Min Req = 1.5
Bearings B & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-10.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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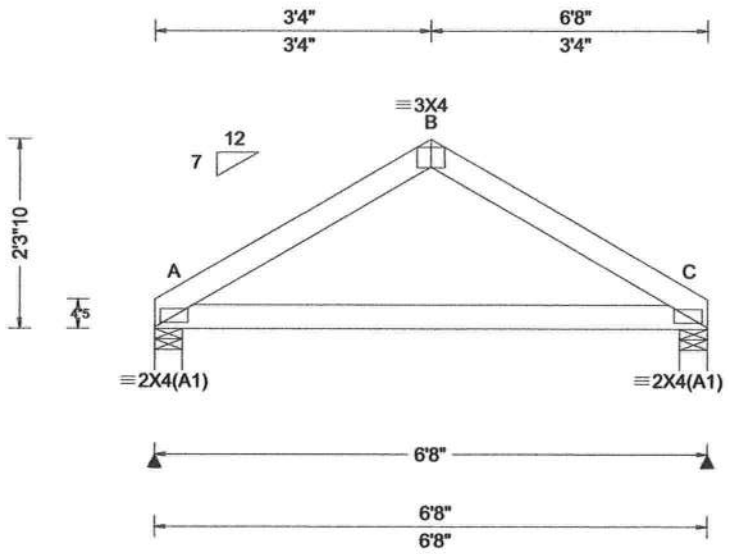
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619360 / COMN FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** C04	Cust: R 215 JRef: 1Xf22150002 T43 / DrwNo: 117.22.0835.44531 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.003	999	480
VERT(CL):	0.010	999	360
HORZ(LL):	-0.002	-	-
HORZ(TL):	0.007	-	-

Creep Factor: 2.0
Max TC CSI: 0.158
Max BC CSI: 0.297
Max Web CSI: 0.000

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	277	/-	/-	/159	/43	/49
C	277	/-	/-	/159	/43	/-

Wind reactions based on MWFRS
A Brg Width = 4.0 Min Req = 1.5
C Brg Width = 4.0 Min Req = 1.5
Bearings A & C are a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-3-10.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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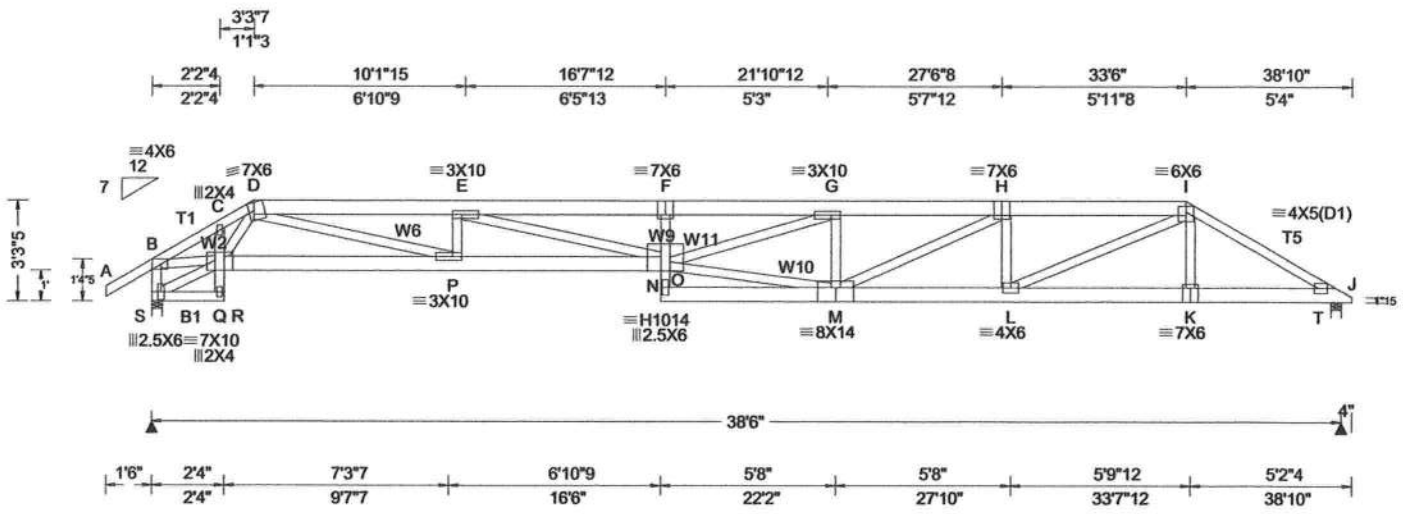
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398087 / HIPS FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E01		Cust: R 215 JRef: 1Xf22150002 T40 / DrwNo: 117.22.0835.45548 JB / WHK 04/27/2022	

2 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria				
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#	
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL):	0.497 F	925	480	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	1.024 F	449	360	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.121 J	-	-	
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL):	0.249 J	-	-	
NCBCLL:	0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.356			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.392			
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI:	0.706			
		C&C Dist a: 3.88 ft	FT/RT:20(0)/10(0)					
		Loc. from endwall: NA	Plate Type(s):					
		GCpi: 0.18	WAVE, HS	VIEW Ver: 21.01.01A.0521.20				
		Wind Duration: 1.60						

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2759	/-	/-	/-	/485	/-
T	2602	/-	/0	/-	/445	/-

Wind reactions based on MWFRS
S Brg Width = 4.0 Min Req = 1.6
T Brg Width = 4.0 Min Req = 1.5
Bearings S & T are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	480	-2866	F - G	1219	-7127
C - D	465	-2837	G - H	753	-4460
D - E	900	-5380	H - I	614	-3640
E - F	1244	-7279	I - J	398	-2344

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	2378	-412	L - K	2017	-340
P - N	5502	-931	K - J	4290	-722
M - L	3701	-629			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - S	241	-1340	N - M	4269	-721
B - Q	2436	-404	G - M	233	-1089
D - P	3126	-507	M - H	857	-140
P - E	195	-755	H - L	150	-600
E - N	1836	-323	L - I	1816	-306
N - G	2733	-475			

Lumber

Top chord: 2x6 SP 2400f-2.0E; T1,T5 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E; B1 2x4 SP #2;
Webs: 2x4 SP #3; W2,W6,W11 2x4 SP #2; W9, W10 2x4 SP M-31;

Nailnote

Nail Schedule:0.128"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.

Loading

#1 hip supports 5-4-0 jacks W/2 panel TC and no end vert.

Left side jacks have 3-3-7 setback with 0-0-0 cant and 1-6-0 overhang. End jacks have 5-4-0 setback with 0-0-0 cant and 1-6-0 overhang. Right side jacks have 5-4-0 setback with 0-0-0 cant and 1-6-0 overhang.

Wind

Wind loads and reactions based on MWFRS.

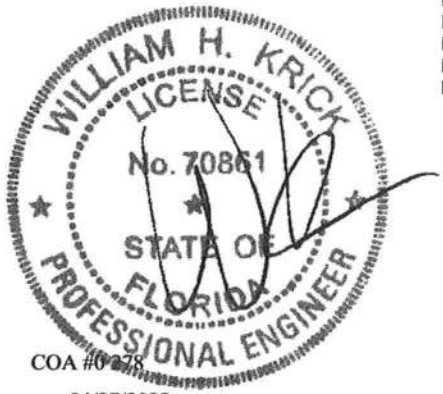
Left end vertical not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-5.



COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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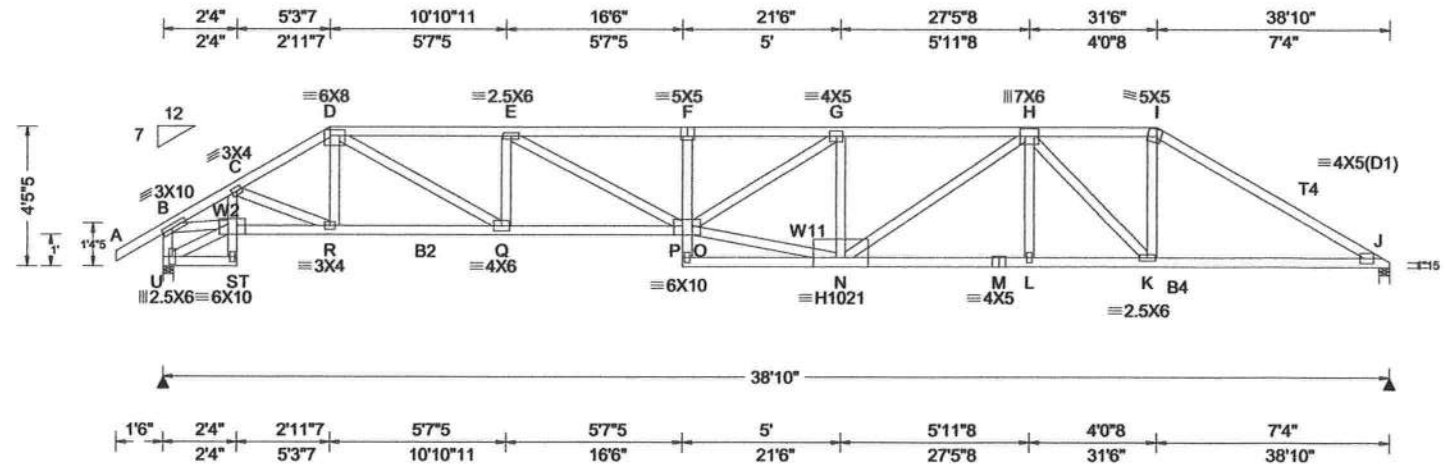
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632728 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E02	Cust: R 215 JRef: 1Xf22150002 T20 / DrwNo: 117.22.0835.45297 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.88 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.388	F	999	480
VERT(CL): 0.800	F	580	360
HORZ(LL): 0.133	J	-	-
HORZ(TL): 0.274	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.712
Max BC CSI: 0.785
Max Web CSI: 0.847

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	1712	/-	/-	/949	/313	/138
J	1618	/-	/-	/891	/279	/-

Wind reactions based on MWFRS
U Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 1.5
Bearings U & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1321	-3203	F - G	2287	-5048
C - D	1200	-2766	G - H	1716	-3740
D - E	1813	-3999	H - I	1076	-2416
E - F	2303	-5087	I - J	1140	-2806

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2778	-1130	M - L	3117	-1280
R - Q	2368	-952	L - K	3117	-1280
Q - O	4086	-1734	K - J	2347	-905
N - M	3117	-1280			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - U	695	-1646	O - G	1502	-670
B - S	2710	-1088	O - N	3750	-1572
C - R	192	-443	G - N	641	-1177
D - Q	1881	-883	N - H	759	-378
Q - E	553	-921	H - K	556	-1046
E - O	1138	-529	K - I	977	-386

Lumber

Top chord: 2x4 SP #2; T4 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2,B4 2x4 SP M-31;
Webs: 2x4 SP #3; W2,W11 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

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 4-5-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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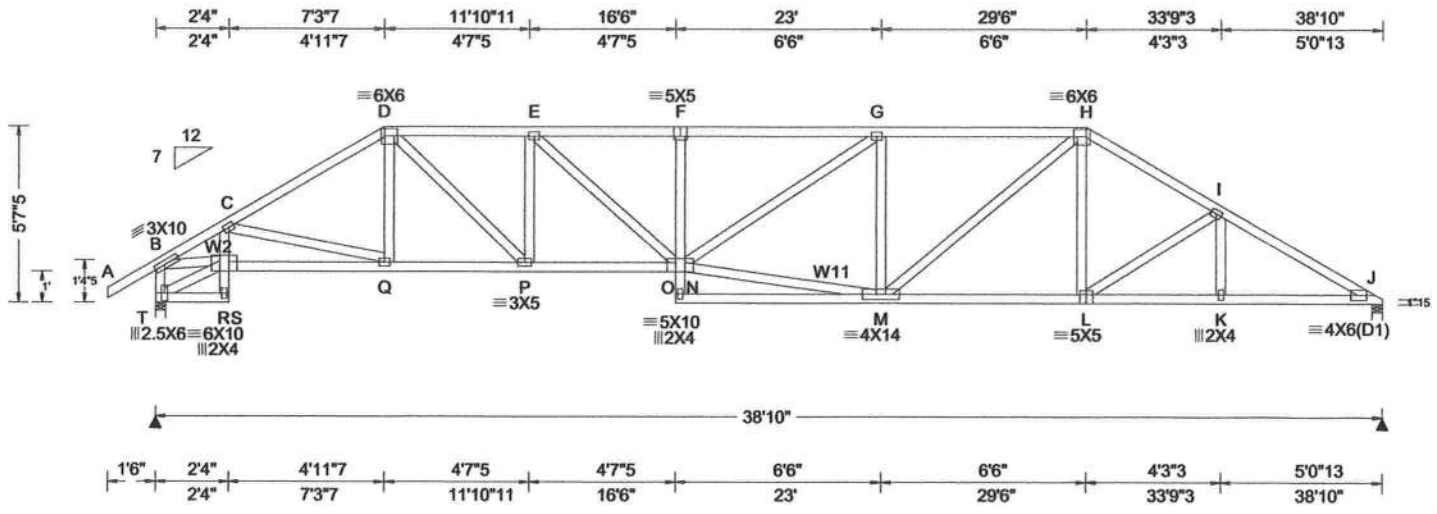
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619263 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E03	Cust: R 215 JRef: 1Xf22150002 T23 / DrwNo: 117.22.0835.44765 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.88 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.265	F	999	480
VERT(CL): 0.547	F	848	360
HORZ(LL): 0.128	K	-	-
HORZ(TL): 0.265	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.591
Max BC CSI: 0.925
Max Web CSI: 0.781

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1712	/-	/-	/969	/309	/170
J	1618	/-	/-	/910	/276	/-

Wind reactions based on MWFRS
T Brg Width = 4.0 Min Req = 2.0
J Brg Width = 4.0 Min Req = 1.9
Bearings T & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1194	-3261	F - G	1614	-3656
C - D	1061	-2661	G - H	1286	-2871
D - E	1339	-3056	H - I	1041	-2561
E - F	1622	-3676	I - J	1063	-2953

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	2845	-1028	M - L	2155	-756
Q - P	2236	-812	L - K	2505	-858
P - N	3111	-1201	K - J	2508	-857

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - T	644	-1645	N - G	915	-401
B - R	2778	-993	N - M	2843	-1091
C - Q	222	-627	G - M	569	-947
D - P	1139	-548	M - H	923	-477
P - E	467	-787	H - L	388	-22
E - N	764	-356	L - I	136	-423

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W2,W11 2x4 SP #2;

Plating Notes

All plates are 3X4 except as noted.

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 5-7-5.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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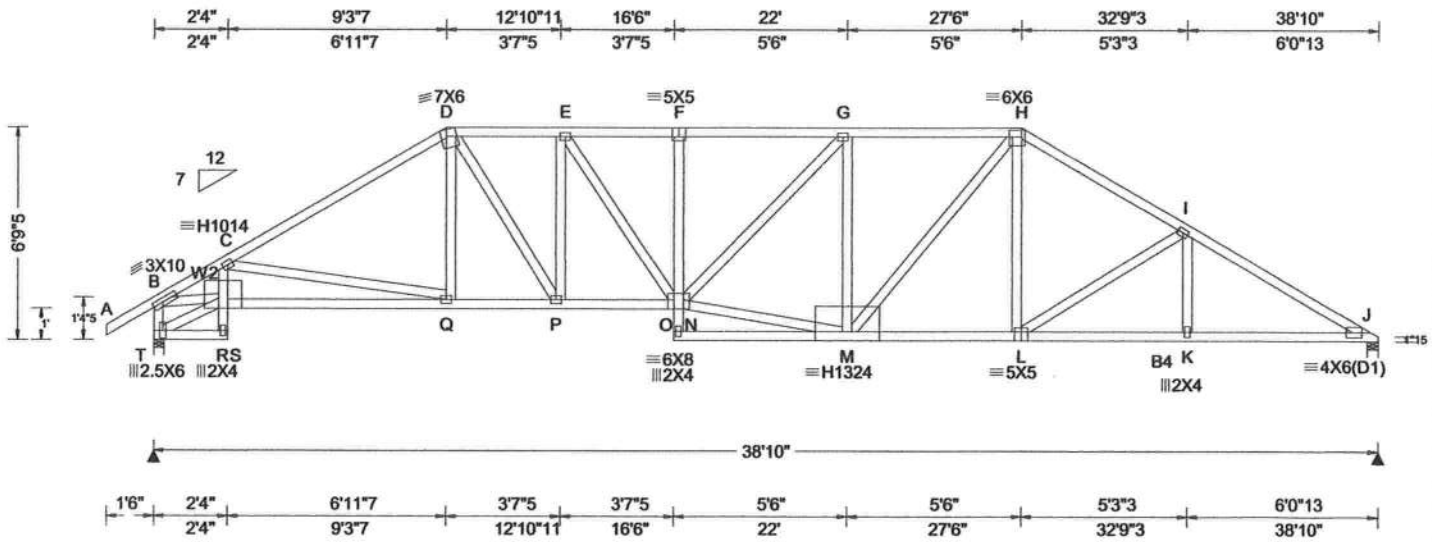
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 619266 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E04		Cust: R 215 JRef:1Xf22150002 T18 / DrwNo: 117.22.0835.44251 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.88 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.210	F	999	480
VERT(CL): 0.423	F	999	360
HORZ(LL): 0.124	K	-	-
HORZ(TL): 0.250	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.927
Max BC CSI: 0.886
Max Web CSI: 0.945

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	1738	/-	/-	/985	/306	/202
J	1672	/-	/-	/926	/273	/-

Wind reactions based on MWFRS
T Brg Width = 4.0 Min Req = 2.1
J Brg Width = 4.0 Min Req = 1.5
Bearings T & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1127	-3407	F - G	1215	-2937
C - D	947	-2612	G - H	1038	-2471
D - E	1060	-2562	H - I	933	-2518
E - F	1218	-2947	I - J	964	-3012

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	3001	-942	M - L	2096	-612
Q - P	2162	-668	L - K	2542	-760
P - N	2600	-854	K - J	2545	-759

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - T	591	-1669	N - G	642	-262
B - R	2932	-932	N - M	2480	-811
C - Q	305	-852	G - M	478	-821
D - P	748	-376	M - H	578	-329
P - E	377	-674	H - L	459	-43
E - N	624	-264	L - I	178	-534

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B4 2x4 SP M-31;
Webs: 2x4 SP #3; W2 2x4 SP #2;

Plating Notes

All plates are 3X4 except as noted.

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.

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 6-9-5.

WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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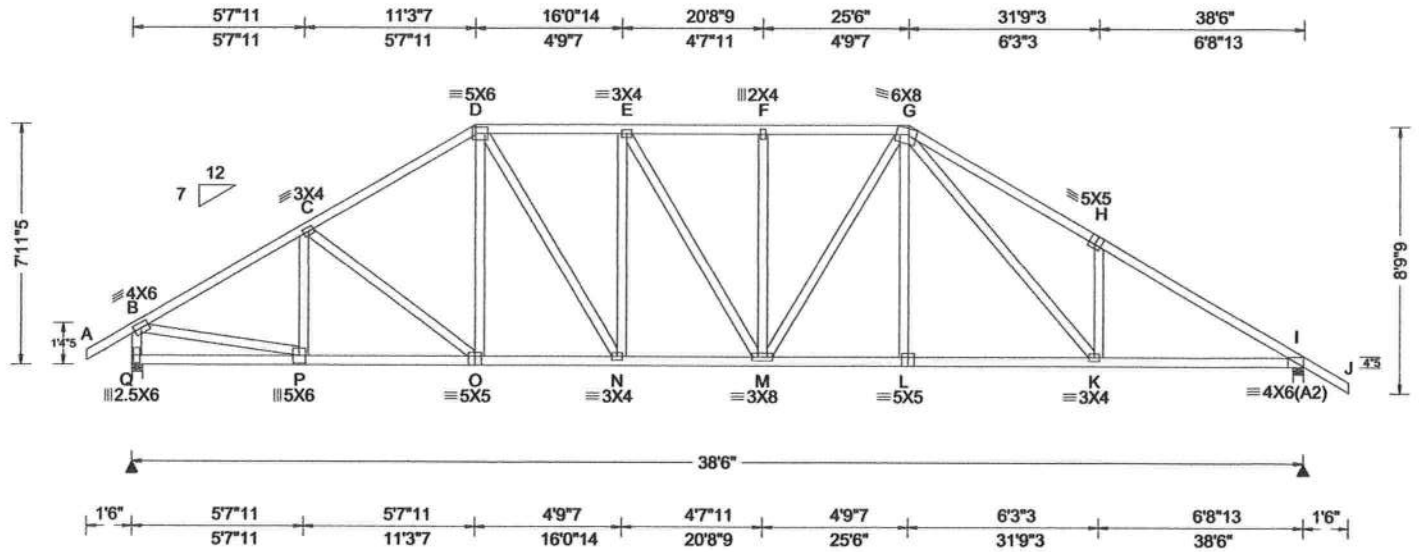
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632780 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E05	Cust: R 215 JRef: 1Xf22150002 T21 / DrwNo: 117.22.0835.45656 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.85 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.163	F	999	480
VERT(CL): 0.304	F	999	360
HORZ(LL): 0.063	I	-	-
HORZ(TL): 0.118	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.647
Max BC CSI: 0.748
Max Web CSI: 0.764

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1866	/-	/-	/991	/300	/249
I	1912	/-	/-	/1023	/301	/-

Wind reactions based on MWFRS
Q Brg Width = 4.0 Min Req = 2.2
I Brg Width = 4.0 Min Req = 1.9
Bearings Q & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	682	-2411	F - G	848	-2325
C - D	773	-2327	G - H	958	-3047
D - E	833	-2267	H - I	814	-3072
E - F	848	-2324			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	2023	-456	M - L	2133	-439
O - N	1927	-402	L - K	2127	-440
N - M	2281	-533	K - I	2563	-582

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	560	-1815	G - K	663	-211
B - P	2006	-484	K - H	236	-384
D - N	654	-264			

Lumber

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

Loading

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

Wind

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 7-11-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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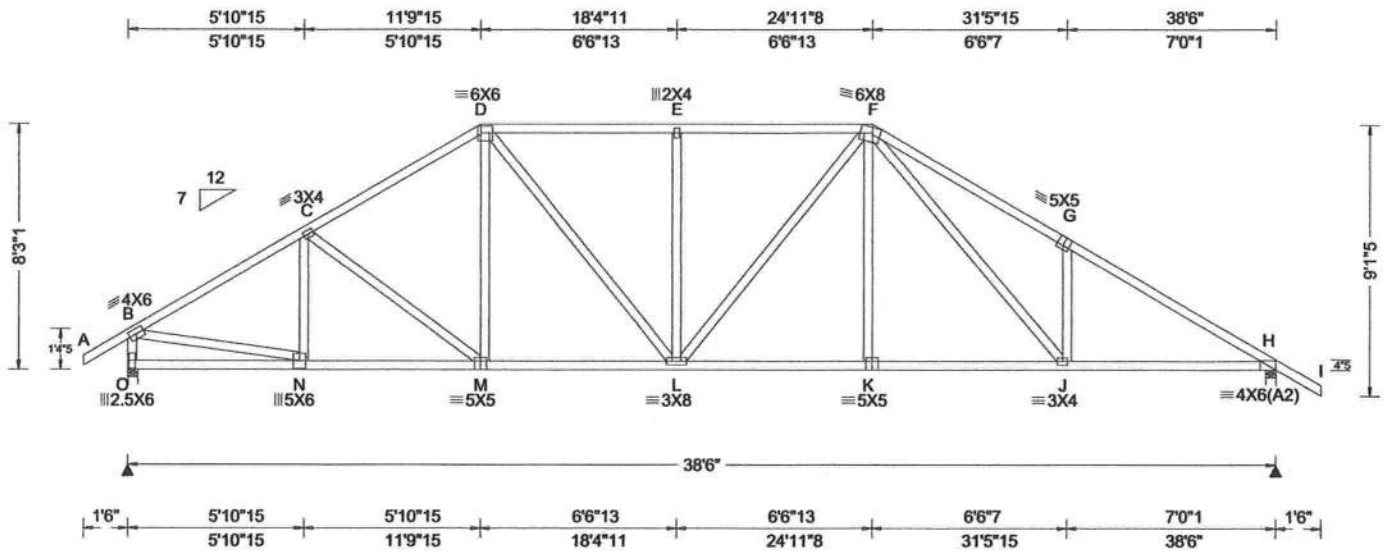
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632778 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E06	Cust: R 215 JRef: 1Xf22150002 T27 / DrwNo: 117.22.0835.45470 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.85 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	E	999	480
VERT(CL): 0.294	E	999	360
HORZ(LL): 0.062	H	-	-
HORZ(TL): 0.115	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.667
Max BC CSI: 0.778
Max Web CSI: 0.765

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1867	/-	/-	/994	/70	/257
H	1920	/-	/-	/1026	/86	/-

Wind reactions based on MWFRS
O Brg Width = 4.0 Min Req = 2.2
H Brg Width = 4.0 Min Req = 1.9
Bearings O & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	667	-2427	E - F	826	-2272
C - D	752	-2320	F - G	939	-3054
D - E	826	-2272	G - H	790	-3080

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2032	-439	K - J	2110	-409
M - L	1920	-376	J - H	2567	-557
L - K	2117	-408			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - O	548	-1812	E - L	346	-420
B - N	2007	-464	F - J	695	-216
D - L	552	-234	J - G	242	-398

Lumber

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

Loading

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

Wind

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 8-3-1.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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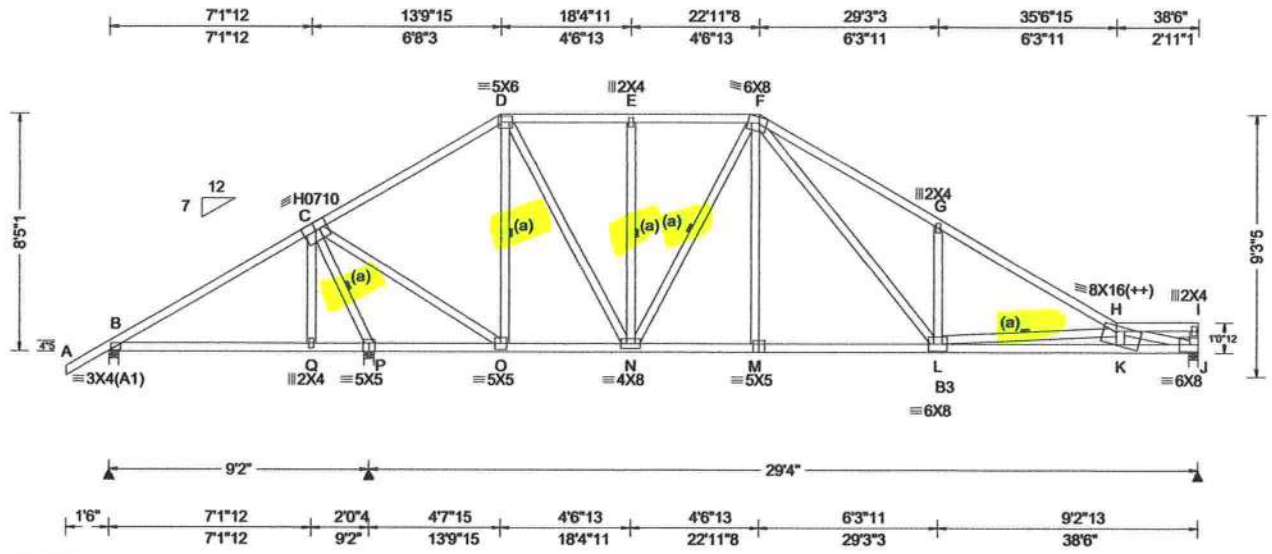
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 632775 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E07	Cust: R 215 JRef: 1Xf22150002 T22 / DrwNo: 117.22.0835.45406 JB / WHK 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.195 G 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.367 G 958 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.047 D - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.089 D - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.738
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.547
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.886
		C&C Dist a: 3.85 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, HS	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	292	/-150	/-	/170	/65	/237
P	2263	/-	/-	/1105	/35	/-
J	1223	/-	/-	/658	/33	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
P Brg Width = 4.0 Min Req = 2.3
J Brg Width = 4.0 Min Req = 1.5
Bearings B, P, & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	666	-148	E - F	403	-843
C - D	253	-530	F - G	708	-2242
D - E	403	-843	G - H	538	-2214

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	167	-526	M - L	1107	-177
Q - P	166	-530	L - K	3970	-943
P - O	414	-1428	K - J	3962	-926
N - M	1112	-176			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - P	631	-2419	F - L	1193	-355
C - O	2120	-487	L - G	273	-461
D - O	321	-1015	L - H	552	-2139
D - N	995	-280	H - J	941	-4043
N - F	78	-555			

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.

Plating Notes

(++) - This plate works for both joints covered.

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 8-5-1.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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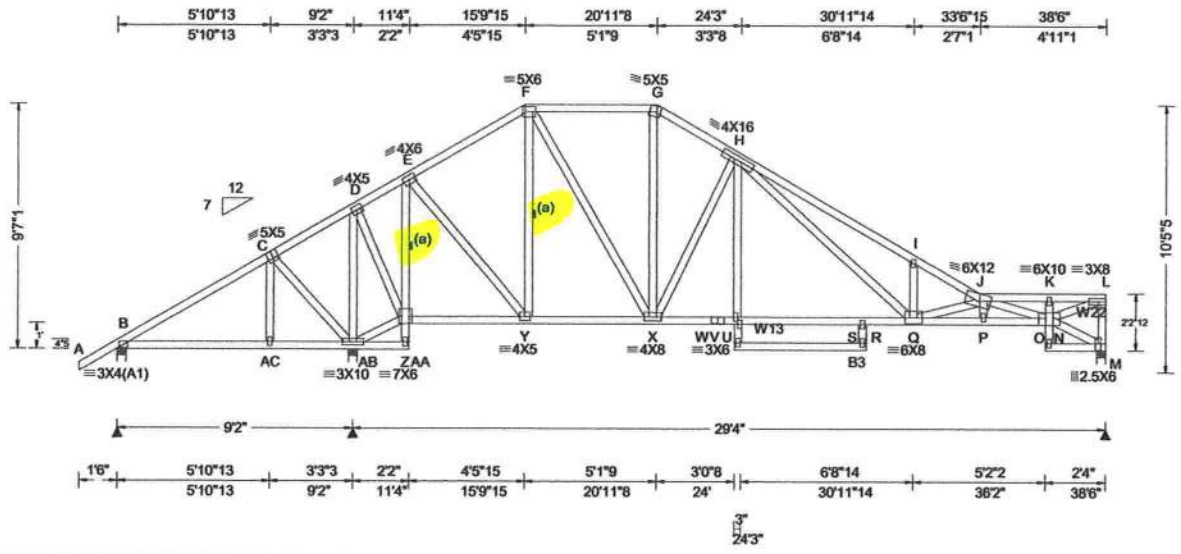
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632745 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E08	Cust: R 215 JRef: 1Xf22150002 T9 / DrwNo: 117.22.0835.45391 JB / WHK 04/27/2022	



Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.85 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.244	R	999	480
VERT(CL): 0.477	R	737	360
HORZ(LL): 0.073	M	-	-
HORZ(TL): 0.141	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.496
Max Web CSI: 0.939

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	46	/-526	/-	/91	/215	/263
AB	2725	/-	/-	/1384	/57	/-
M	1066	/-	/-	/573	/21	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
AB Brg Width = 4.0 Min Req = 2.8
M Brg Width = 4.0 Min Req = 1.5
Bearings B, AB, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1332	-360	G - H	332	-837
C - D	1537	-335	H - I	786	-2897
D - E	899	-157	I - J	638	-2790
E - F	185	-405	J - K	758	-2727
F - G	304	-661	K - L	718	-2580

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AC	293	-1111	U - S	1060	-161
AC-AB	292	-1114	S - Q	1076	-159
Z - Y	269	-719	Q - P	4345	-1060
X - W	1078	-158	P - N	4306	-1047
W - U	1079	-158			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C -AB	147	-443	X - H	264	-913
AB- D	356	-1604	H - Q	1830	-517
AB- Z	438	-1482	Q - I	226	-393
D - Z	1300	-252	Q - J	549	-2043
Z - E	489	-1920	J - N	297	-1626
E - Y	1473	-313	N - L	2732	-761
F - Y	286	-925	L - M	302	-991
F - X	842	-201			

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B3 2x4 SP M-31;
Webs: 2x4 SP #3; W13 2x4 SP M-31; W22 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Negative reaction(s) of -526# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 9-7-1.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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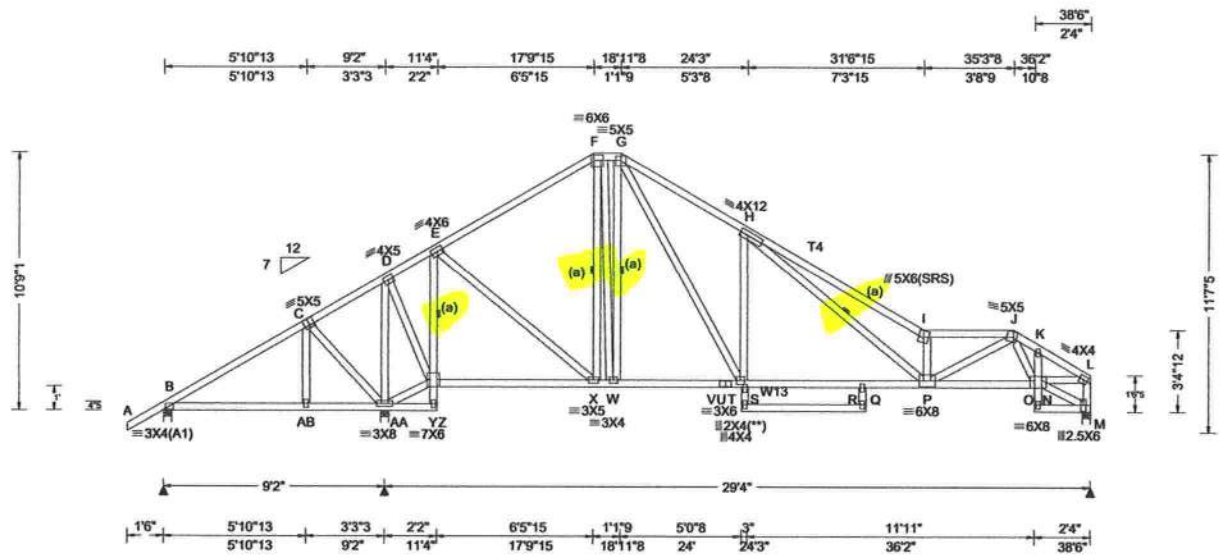
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632747 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E09	Cust: R 215 JRef: 1Xf22150002 T28 / DrwNo: 117.22.0835.45640 JB / WHK 04/27/2022



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.248 Q 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.479 Q 734 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.058 F - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.113 F - -
NCBCLL:	10.00	Mean Height: 15.21 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.558
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.582
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.905
		C&C Dist a: 3.85 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	152	/-327	/-	/72	/82	/296
AA	2474	/-	/-	/1309	/46	/-
M	1152	/-	/-	/633	/15	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
AA Brg Width = 4.0 Min Req = 2.5
M Brg Width = 4.0 Min Req = 1.5
Bearings B, AA, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	955	-237	G - H	483	-1557
C - D	1155	-211	H - I	909	-3589
D - E	553	-90	I - J	651	-2870
E - F	240	-736	J - K	502	-1997
F - G	269	-592	K - L	466	-2004

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B -AB	212	-787	V - U	608	0
AB-AA	211	-790	U - S	1301	-136
Y - X	209	-444	S - R	1281	-138
X - W	545	0	R - P	1301	-136
W - V	608	0	P - N	1669	-371

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C -AA	148	-434	W - G	156	-508
AA- D	257	-1546	G - U	1370	-380
AA- Y	351	-1102	U - H	396	-916
D - Y	1311	-209	H - P	2254	-647
Y - E	411	-1700	I - P	639	-2092
E - X	1211	-169	P - J	1394	-248
F - X	159	-599	N - L	1688	-374
F - W	540	-136	L - M	265	-1110

Lumber

Top chord: 2x4 SP #2; T4 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W13 2x4 SP M-31;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

Plating Notes

All plates are 2X4 except as noted.

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

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

Negative reaction(s) of -327# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 10-9-1.

COA #0278

04/27/2022

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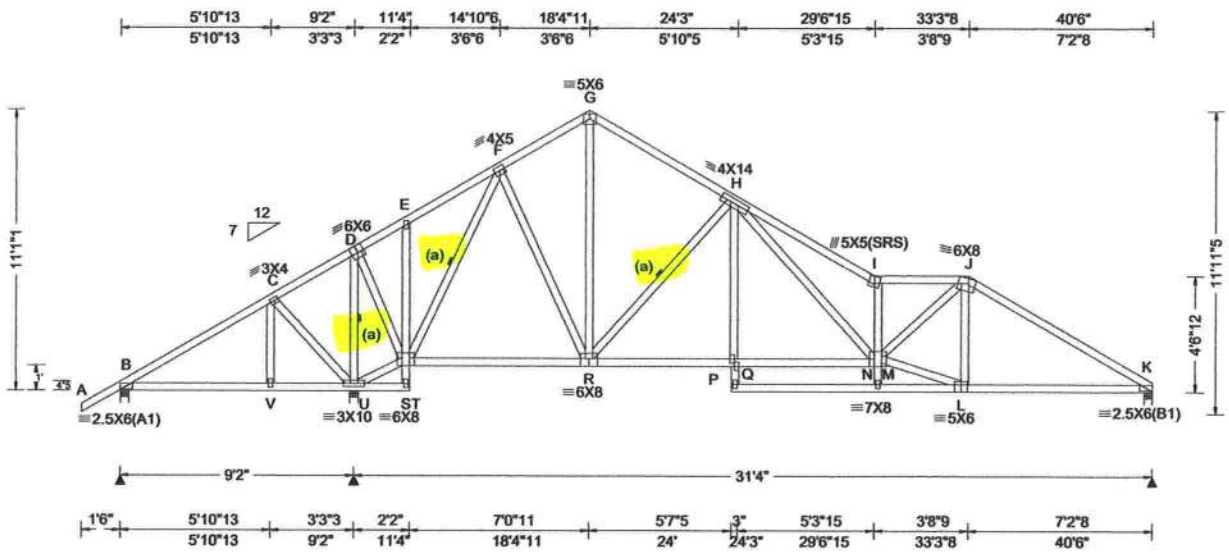
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632750 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E10	Cust: R 215 JRef: 1Xf22150002 T15 / DrwNo: 117.22.0835.45313 JB / WHK 04/27/2022	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.184 I 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.351 I 999 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.069 G - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.132 G - -
NCBCLL:	10.00	Mean Height: 15.38 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.715
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.680
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.760
		C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	88	/-429	/-	/55	/110	/321
U	2749	/-	/-	/1401	/45	/-
K	1219	/-	/-	/704	/28	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
U Brg Width = 4.0 Min Req = 2.9
K Brg Width = 4.0 Min Req = 1.5
Bearings B, U, & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1148	-256	G - H	252	-788
C - D	1350	-231	H - I	789	-3216
D - E	666	-104	I - J	598	-2644
E - F	672	-57	J - K	443	-1928
F - G	264	-736			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - V	271	-952	P - M	1347	-91
V - U	270	-955	L - K	1573	-286
R - P	1399	-101			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - U	149	-444	R - H	347	-1200
U - D	241	-1727	H - M	1995	-547
U - S	421	-1274	I - M	513	-1789
D - S	1427	-158	M - L	1550	-279
S - F	312	-1774	M - J	1436	-218
F - R	816	-72	L - J	129	-391
G - R	398	-129			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -429# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 11-1-1.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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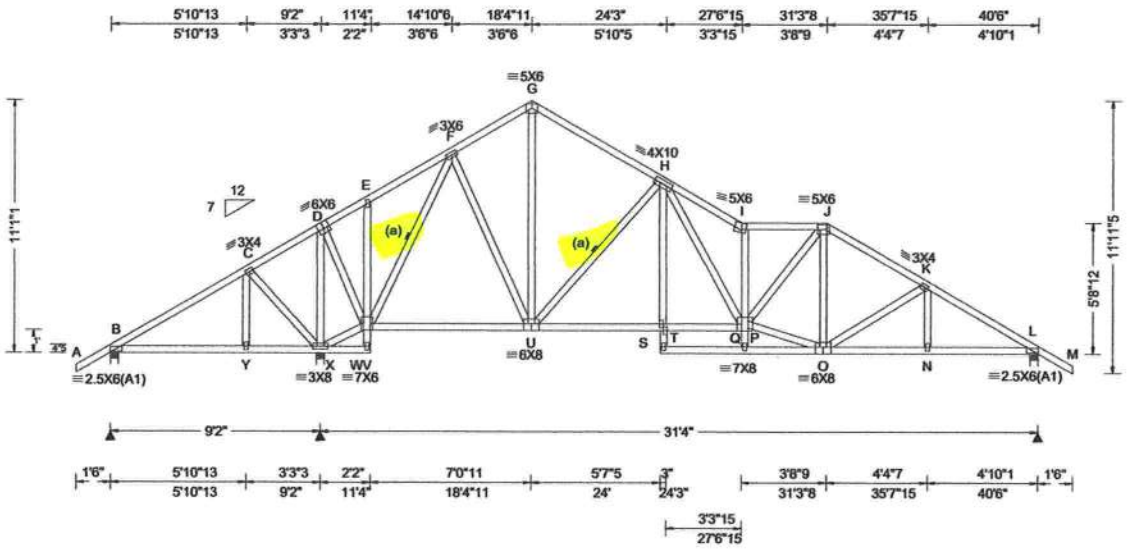
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632753 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E11	Cust: R 215 JRef: 1Xf22150002 T1 / DrwNo: 117.22.0835.45094 JB / WHK 04/27/2022



Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration: 1.25	
Spacing: 24.0 "	

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.38 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.05 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.130	I	999	480
VERT(CL): 0.252	I	999	360
HORZ(LL): 0.053	G	-	-
HORZ(TL): 0.102	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.549
Max BC CSI: 0.676
Max Web CSI: 0.961

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	182	/-280	/-	/56	/56	/338
X	2513	/-	/-	/1345	/38	/-
L	1323	/-	/-	/817	/43	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
X Brg Width = 4.0 Min Req = 2.6
L Brg Width = 4.0 Min Req = 1.6
Bearings B, X, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	867	-187	G - H	280	-847
C - D	1064	-161	H - I	635	-2403
D - E	417	-44	I - J	503	-2010
E - F	423	0	J - K	447	-1680
F - G	293	-799	K - L	441	-1988

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Y	248	-711	S - P	1379	-86
Y - X	247	-714	O - N	1645	-283
U - S	1405	-93	N - L	1647	-281

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - X	146	-433	G - U	448	-151
X - D	217	-1641	U - H	349	-1123
X - V	391	-991	H - P	1320	-393
D - V	1349	-136	I - P	419	-1340
V - F	271	-1536	P - O	1419	-191
F - U	686	-67	P - J	959	-129

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -280# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 11-1-1.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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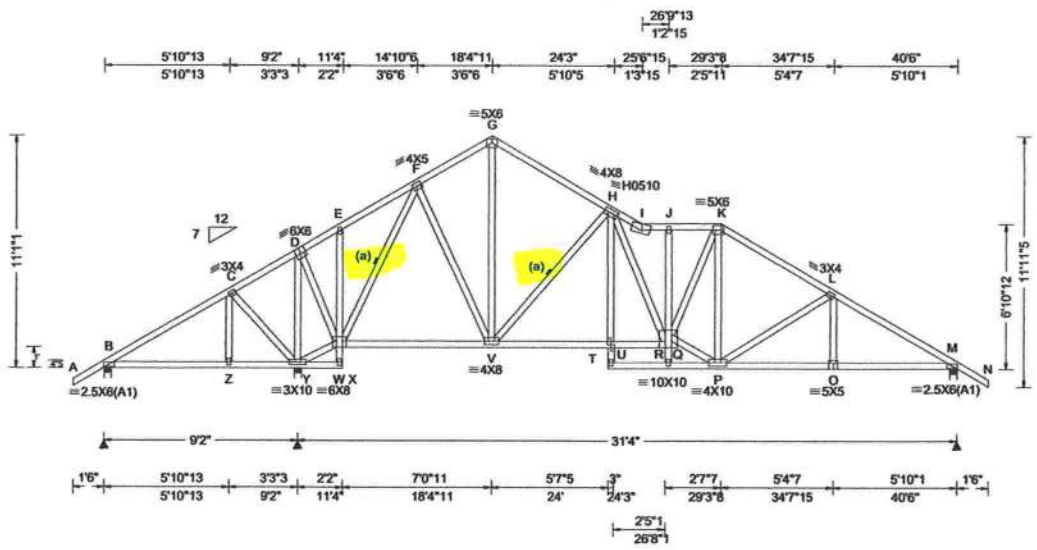
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 632755 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E12	Cust: R 215 JRef: 1Xf22150002 T24 / DrwNo: 117.22.0835.45812 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.38 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.05 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.195	I	999	480
VERT(CL): 0.380	I	984	360
HORZ(LL): 0.066	G	-	-
HORZ(TL): 0.128	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.818
Max BC CSI: 0.689
Max Web CSI: 0.982

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	110	/-407	/-	/41	/107	/338
Y	2676	/-	/-	/1426	/46	/-
M	1287	/-	/-	/804	/44	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
Y Brg Width = 4.0 Min Req = 2.8
M Brg Width = 4.0 Min Req = 1.5
Bearings B, Y, & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1106	-240	H - I	444	-1634
C - D	1307	-215	I - J	442	-1618
D - E	644	-92	J - K	443	-1618
E - F	652	-31	K - L	411	-1478
F - G	279	-706	L - M	418	-1901
G - H	268	-764			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Z	290	-917	T - Q	1379	-91
Z - Y	289	-919	P - O	1564	-252
V - T	1408	-98	O - M	1566	-251

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Y	148	-442	V - H	375	-1243
Y - D	230	-1677	H - Q	618	-184
Y - W	444	-1232	J - Q	230	-664
D - W	1382	-148	Q - P	1371	-134
W - F	314	-1710	Q - K	987	-121
F - V	771	-89	P - L	156	-445
G - V	393	-147			

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -407# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

The overall height of this truss excluding overhang is 11-1-1.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER

COA #0278
04/27/2022

Florida Certificate of Product Approval #FL 1999

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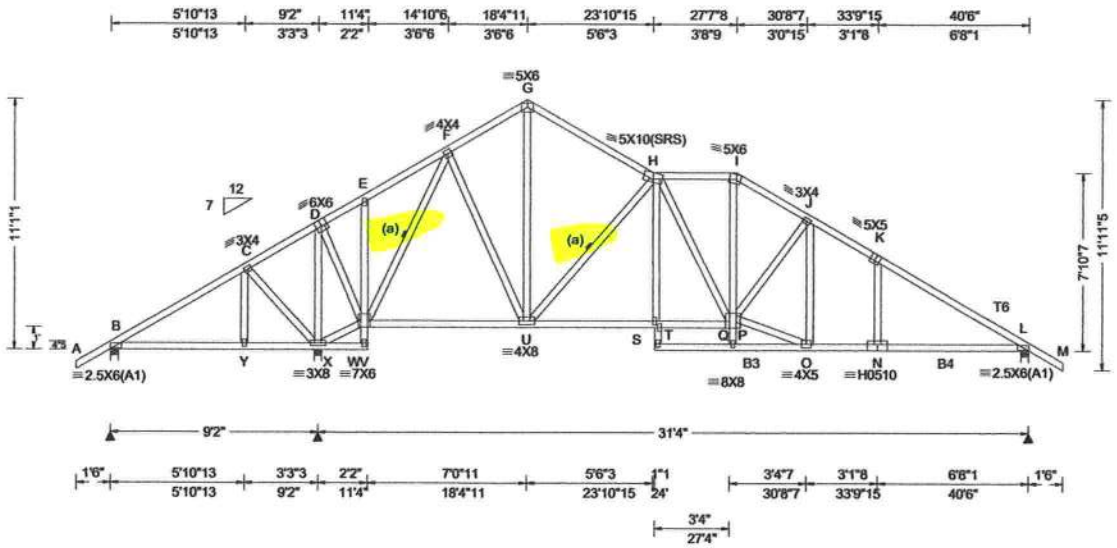
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632758 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E13	Cust: R 215 JRef: 1Xf22150002 T11 / DrwNo: 117.22.0835.44906 JB / WHK 04/27/2022	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.235 N 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.427 N 877 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.094 K - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.200 K - -
NCBCLL:	10.00	Mean Height: 15.38 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.720
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.724
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.951
		C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, HS	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	257	/-128	/-	/93	/37	/338
X	2346	/-	/-	/1263	/52	/-
L	1447	/-	/-	/854	/47	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
X Brg Width = 4.0 Min Req = 2.4
L Brg Width = 4.0 Min Req = 1.5
Bearings B, X, & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	578	-103	H - I	432	-1523
C - D	771	-75	I - J	479	-1839
F - G	337	-945	J - K	481	-1880
G - H	324	-984	K - L	398	-2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Y	202	-464	S - P	1547	-131
Y - X	201	-466	O - N	1637	-213
V - U	535	-66	N - L	1639	-216
U - S	1557	-137			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - X	143	-421	F - U	585	-56
X - D	214	-1625	G - U	593	-197
X - V	308	-701	U - H	371	-1204
D - V	1330	-132	P - I	780	-138
V - F	220	-1356	P - O	1733	-222

Lumber

Top chord: 2x4 SP #2; T6 2x4 SP M-31;
Bot chord: 2x4 SP #2; B3,B4 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-1-1.

Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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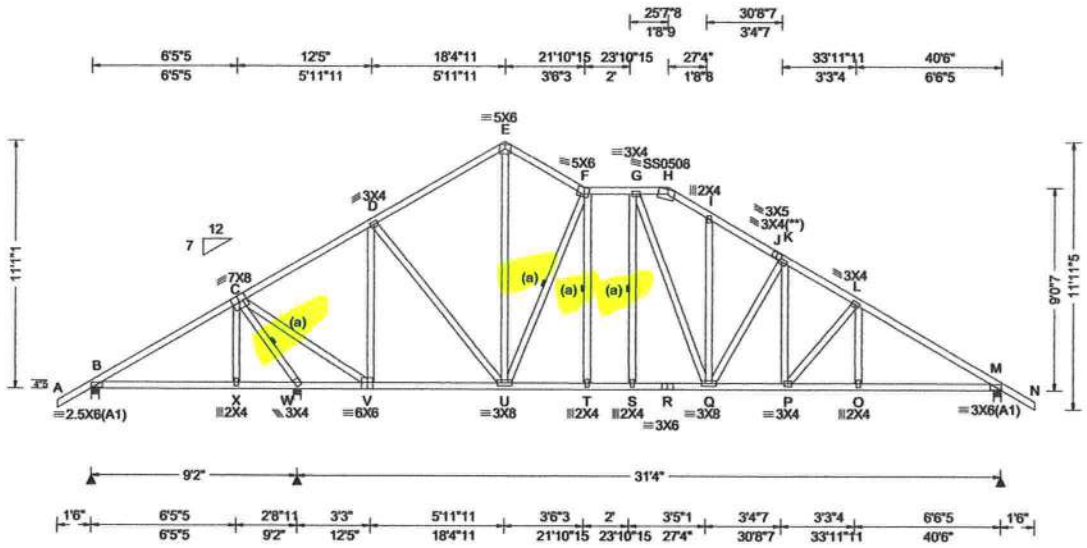
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632760 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E14	Cust: R 215 JRef: 1Xf22150002 T35 / DrwNo: 117.22.0835.45721 JB / WHK 04/27/2022



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**				
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#	
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL):	0.114	Q	999	480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.227	Q	999	360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.034	E	-	-
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL):	0.067	E	-	-
NCBCLL:	10.00	Mean Height: 15.38 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.584			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.496			
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI:	0.972			
		C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)					
		Loc. from endwall: not in 13.00 ft	Plate Type(s):					
		GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.01.01A.0521.20				
		Wind Duration: 1.60						

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	443	/-	/-	/215	/23	/338
W	1894	/-	/-	/1108	/61	/-
M	1397	/-	/-	/890	/43	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
W Brg Width = 4.0 Min Req = 1.9
M Brg Width = 4.0 Min Req = 1.6
Bearings B, W, & M 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.
C - D	199	-613	H - I	479	-1352
D - E	370	-986	I - J	463	-1503
E - F	382	-933	J - K	446	-1512
F - G	416	-1091	K - L	482	-1788
G - H	461	-1239	L - M	456	-2079

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
W - V	378	-1173	R - Q	1089	-62
V - U	472	-74	Q - P	1480	-193
U - T	1089	-62	P - O	1706	-275
T - S	1090	-61	O - M	1708	-274
S - R	1089	-62			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - W	478	-2215	E - U	601	-240
C - V	1953	-353	U - F	335	-863
V - D	261	-928	G - Q	509	-130
D - U	472	-51	Q - K	170	-492

Lumber

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

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

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-1-1.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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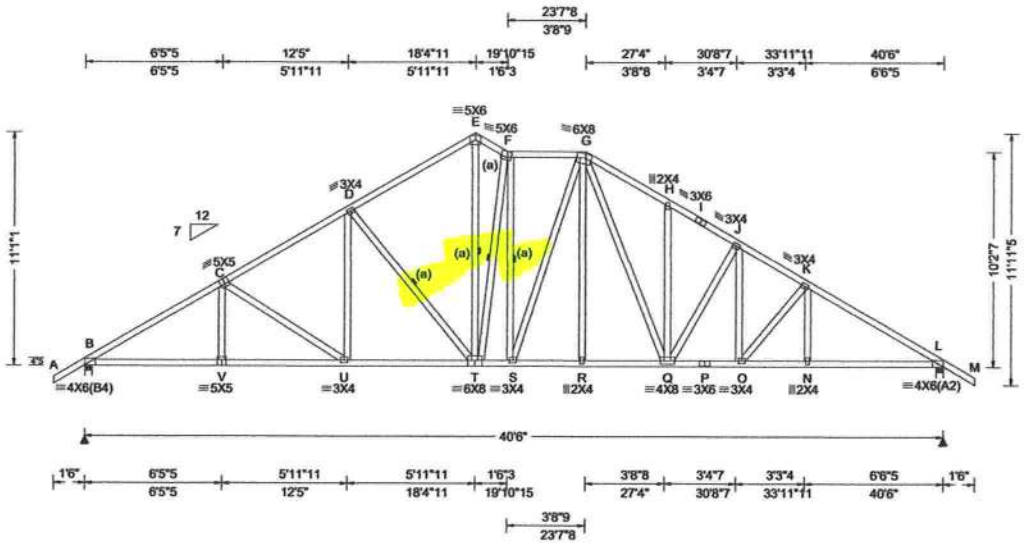
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632762 / SPEC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E15	Cust: R 215 JRef: 1Xf22150002 T34 / DrwNo: 117.22.0835.45472 JB / WHK 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.185 F 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.359 F 999 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.076 L - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.148 L - -
NCBCLL:	10.00	Mean Height: 15.38 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.522
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.773
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.764
		C&C Dist a: 4.05 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 13.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1890	/-	/-	/1077	/31	/338
L	1876	/-	/-	/1075	/32	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.9
L Brg Width = 4.0 Min Req = 1.9
Bearings B & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	606	-3024	G - H	716	-2452
C - D	600	-2598	H - I	625	-2386
D - E	585	-2058	I - J	616	-2442
E - F	598	-1915	J - K	645	-2712
F - G	569	-1823	K - L	617	-2988

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - V	2523	-396	R - Q	1797	-172
V - U	2521	-397	Q - P	2276	-332
U - T	2150	-267	P - O	2276	-332
T - S	1827	-175	O - N	2487	-413
S - R	1800	-171	N - L	2489	-412

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - U	164	-430	T - F	325	-875
U - D	456	-29	G - Q	740	-237
D - T	227	-727	Q - J	146	-416
E - T	1606	-456			

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 11-1-1.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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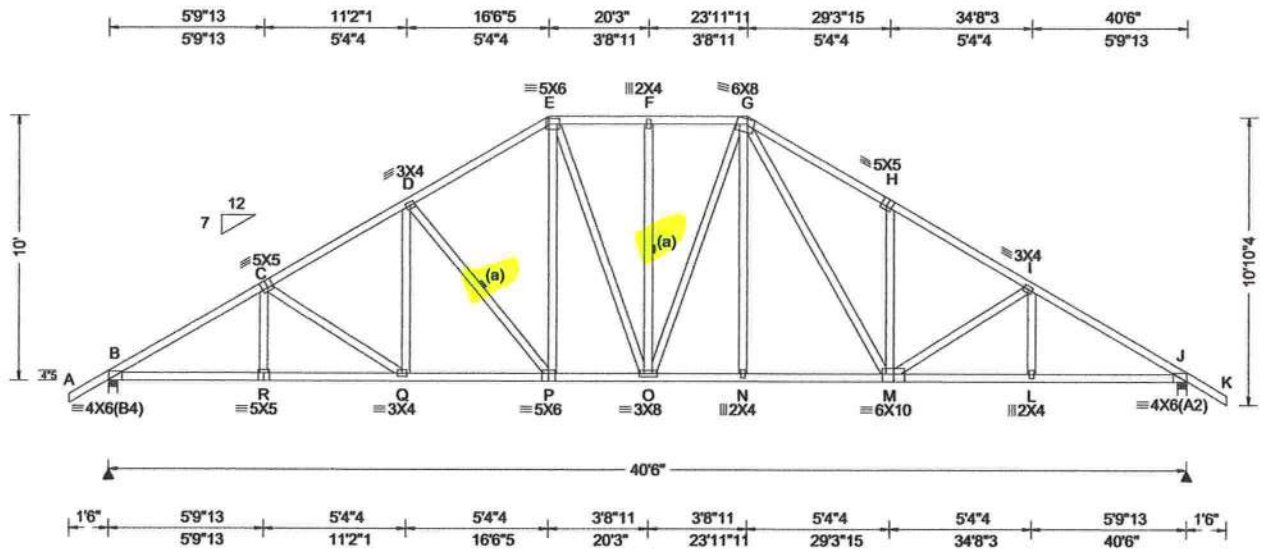
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 632764 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E16	Cust: R 215 JRef: 1Xf22150002 T37 / DrwNo: 117.22.0835.45719 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.52 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.05 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.165	P	999	480
VERT(CL): 0.320	P	999	360
HORZ(LL): 0.077	J	-	-
HORZ(TL): 0.149	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.498
Max BC CSI: 0.848
Max Web CSI: 0.630

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1890	/-	/-	/1078	/-	/309
J	1888	/-	/-	/1078	/-	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.9
J Brg Width = 4.0 Min Req = 1.9
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	277	-3036	F - G	236	-1873
C - D	269	-2675	G - H	402	-2674
D - E	253	-2199	H - I	267	-2666
E - F	236	-1873	I - J	277	-3035

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2538	-118	O - N	1841	0
R - Q	2537	-119	N - M	1838	0
Q - P	2228	-1	M - L	2536	-129
P - O	1820	0	L - J	2537	-128

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - D	396	-29	E - P	635	-117
D - P	213	-654	G - M	812	-268

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.

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

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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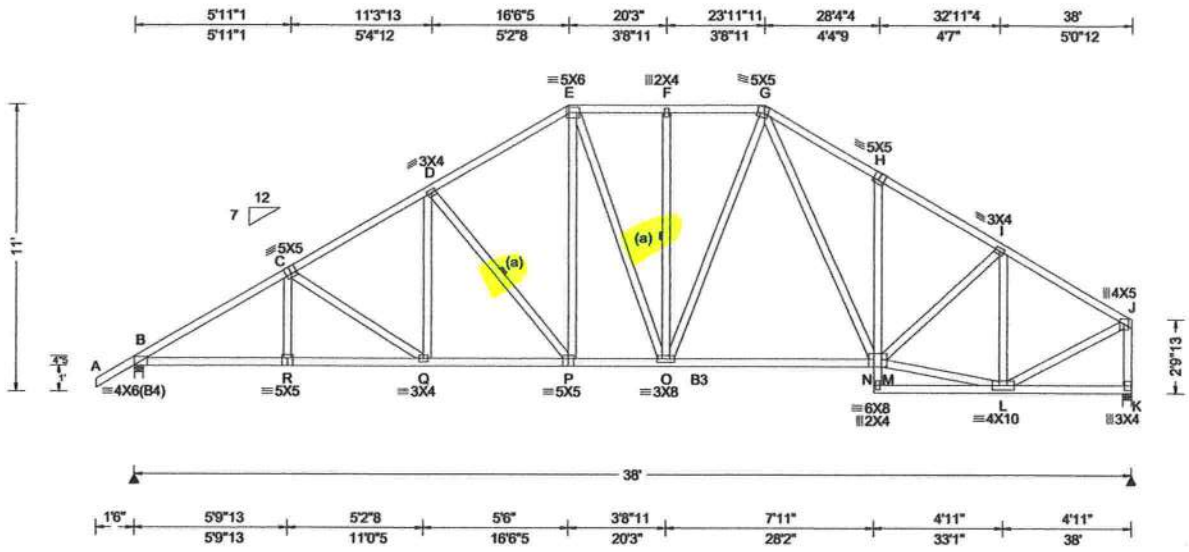
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398061 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E17	Cust: R 215 JRef: 1Xf22150002 T29 / DrwNo: 117.22.0835.45689 JB / WHK 04/27/2022



Loading Criteria (psf)		**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**				
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in	loc	L/defl	L/#	
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL):	0.128 Q	999	480	
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL):	0.245 Q	999	360	
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL):	0.061 K	-	-	
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL):	0.116 K	-	-	
NCBCLL:	10.00	Mean Height: 15.64 ft	Building Code:	Creep Factor: 2.0				
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI:	0.476			
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI:	0.802			
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI:	0.599			
		C&C Dist a: 3.80 ft	FT/RT:20(0)/10(0)					
		Loc. from endwall: not in 9.00 ft	Plate Type(s):					
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20				
		Wind Duration: 1.60						

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1814	/-	/-	/1029	/-	/275
K	1713	/-	/-	/901	/-	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.8
K Brg Width = 4.0 Min Req = 2.0
Bearings B & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	259	-2891	F - G	213	-1744
C - D	251	-2529	G - H	339	-2193
D - E	236	-2046	H - I	228	-2198
E - F	213	-1744	I - J	164	-1705

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2414	-199	P - O	1688	0
R - Q	2412	-200	O - M	1619	0
Q - P	2102	-74			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - D	407	-28	M - L	1478	-78
D - P	212	-663	I - L	118	-948
E - P	551	-132	L - J	1573	-89
G - M	518	-208	J - K	165	-1671
M - I	543	0			

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.

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

Refer to DWG PB160160118 for piggyback details.

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

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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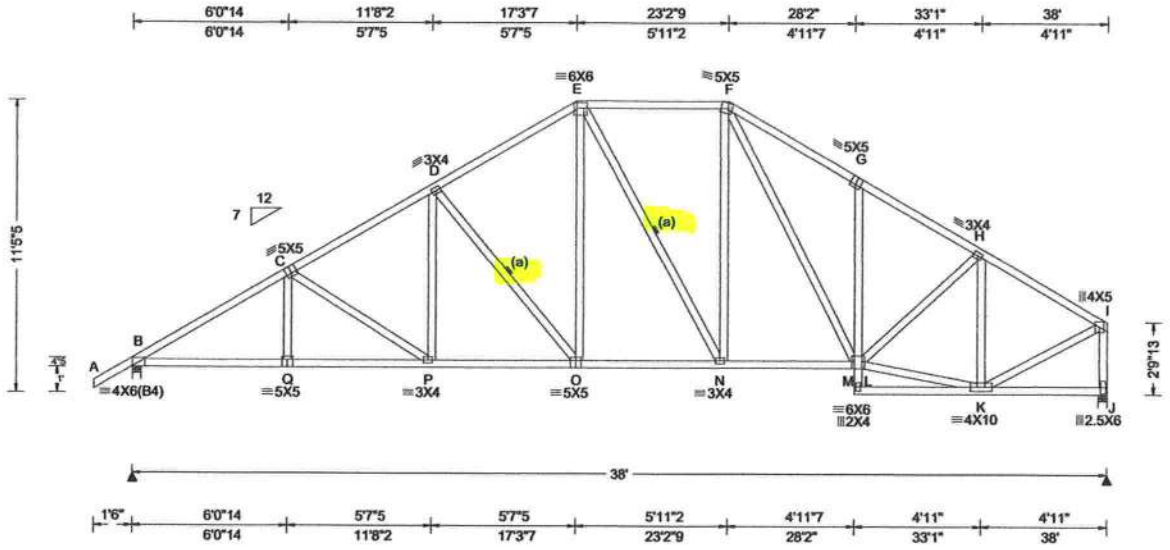
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632769 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E18	Cust: R 215 JRef: 1Xf22150002 T31 / DrwNo: 117.22.0835.45471 JB / WHK 04/27/2022	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.141 P 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.263 P 999 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.069 J - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.129 J - -
NCBCLL:	10.00	Mean Height: 15.06 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.497
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.809
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.613
		C&C Dist a: 3.80 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
		Wind Duration: 1.60		

Lumber

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

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 10-5-5.

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1861	/-	/-	/1027	/56	/286
J	1749	/-	/-	/899	/25	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.9
J Brg Width = 4.0 Min Req = 2.1
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	622	-2977	F - G	690	-2250
C - D	621	-2585	G - H	577	-2248
D - E	608	-2087	H - I	394	-1742
E - F	558	-1672			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2485	-508	O - N	1724	-256
Q - P	2484	-509	N - L	1665	-245
P - O	2146	-385			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - P	149	-392	L - H	561	-68
P - D	415	-28	L - K	1476	-286
D - O	205	-673	H - K	269	-964
E - O	745	-103	K - I	1608	-312
F - L	467	-183	I - J	381	-1707

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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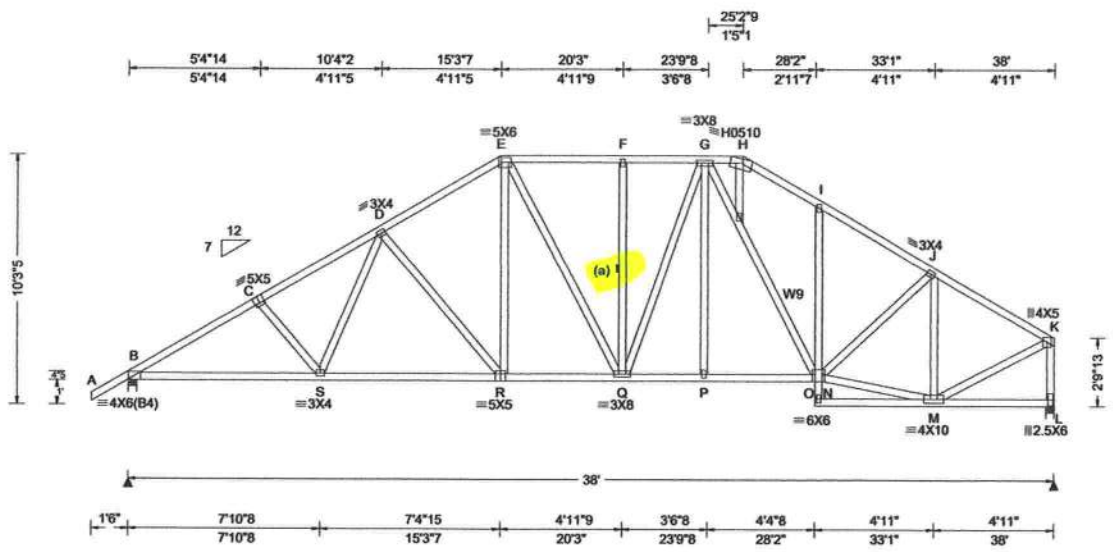
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632719 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E19	Cust: R 215 JRef:1Xf22150002 T33 / DrwNo: 117.22.0835.45937 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.178	F	999	480
VERT(CL): 0.338	F	999	360
HORZ(LL): 0.075	L	-	-
HORZ(TL): 0.142	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.867
Max BC CSI: 0.853
Max Web CSI: 0.705

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1854	/-	/-	/1023	/75	/255
L	1709	/-	/-	/894	/28	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.9
L Brg Width = 4.0 Min Req = 2.0
Bearings B & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	726	-2984	G - H	670	-1816
C - D	732	-2792	H - I	707	-2033
D - E	704	-2219	I - J	656	-2176
E - F	694	-1889	J - K	450	-1706
F - G	694	-1889			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	2497	-604	Q - P	1733	-363
S - R	2198	-498	P - N	1735	-364
R - Q	1842	-376			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - D	413	-32	N - J	476	-100
D - R	190	-556	N - M	1442	-337
E - R	697	-86	J - M	307	-944
F - Q	275	-427	M - K	1581	-369
Q - G	442	-175	K - L	433	-1668

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3; W9 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide 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 9-3-5.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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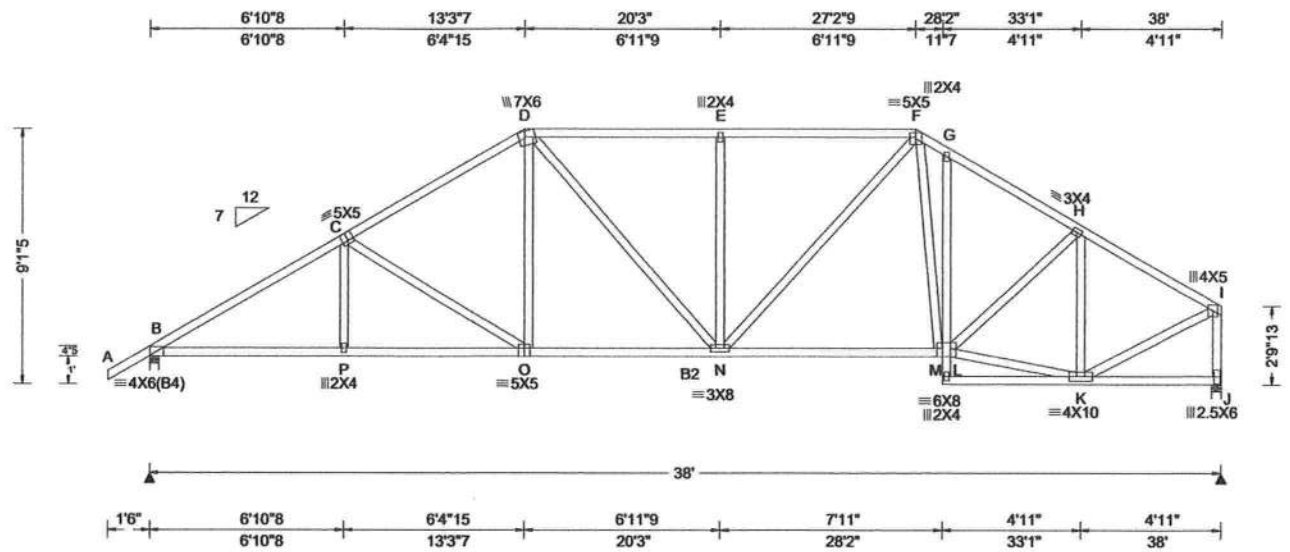
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619292 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E20	Cust: R 215 JRef: 1Xf22150002 T30 / DrwNo: 117.22.0835.44438 JB / WHK 04/27/2022	



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL:	10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.135 E 999 480
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.257 E 999 360
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.061 J - -
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.115 J - -
NCBCLL:	10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.576
Load Duration:	1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.759
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.605
		C&C Dist a: 3.80 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 9.00 ft	Plate Type(s):	
		GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
		Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1819	/-	/-	/1016	/92	/223
J	1726	/-	/-	/886	/58	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.8
J Brg Width = 4.0 Min Req = 2.0
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	794	-2879	F - G	760	-2111
C - D	792	-2392	G - H	740	-2216
D - E	841	-2206	H - I	504	-1719
E - F	841	-2206			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	2394	-646	O - N	1978	-507
P - O	2392	-647	N - L	1806	-470

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - O	167	-493	L - K	1488	-378
D - O	489	-31	H - K	340	-958
E - N	378	-460	K - I	1588	-419
N - F	605	-236	I - J	485	-1685
L - H	540	-144			

Lumber

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

Loading

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

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 8-1-5.

COA #0378

04/27/2022

Florida Certificate of Product Approval #FL 1999

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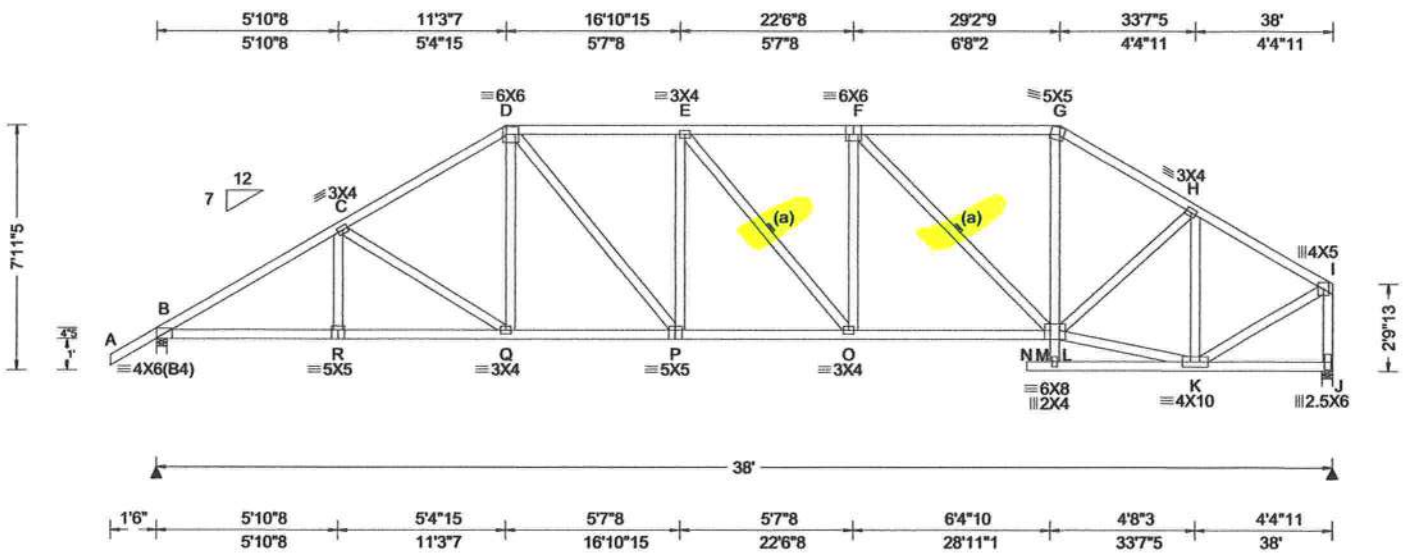
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 632771 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E21	Cust: R 215 JRef: 1Xf22150002 T32 / DrwNo: 117.22.0835.45140 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.164	E	999	480
VERT(CL): 0.312	E	999	360
HORZ(LL): 0.077	J	-	-
HORZ(TL): 0.147	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.483
Max BC CSI: 0.818
Max Web CSI: 0.586

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1832	/-	/-	/1004	/300	/192
J	1707	/-	/-	/873	/275	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.8
J Brg Width = 4.0 Min Req = 2.0
Bearings B & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	880	-2927	F - G	748	-1858
C - D	888	-2548	G - H	813	-2194
D - E	987	-2529	H - I	530	-1621
E - F	985	-2503			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - R	2445	-731	P - O	2541	-811
R - Q	2443	-733	O - L	2494	-802
Q - P	2128	-631			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - Q	143	-377	L - H	641	-209
D - Q	401	-24	L - K	1387	-409
D - P	629	-312	H - K	384	-1002
F - L	364	-904	K - I	1537	-461
L - G	728	-186	I - J	534	-1670

Lumber

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

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 6-11-5.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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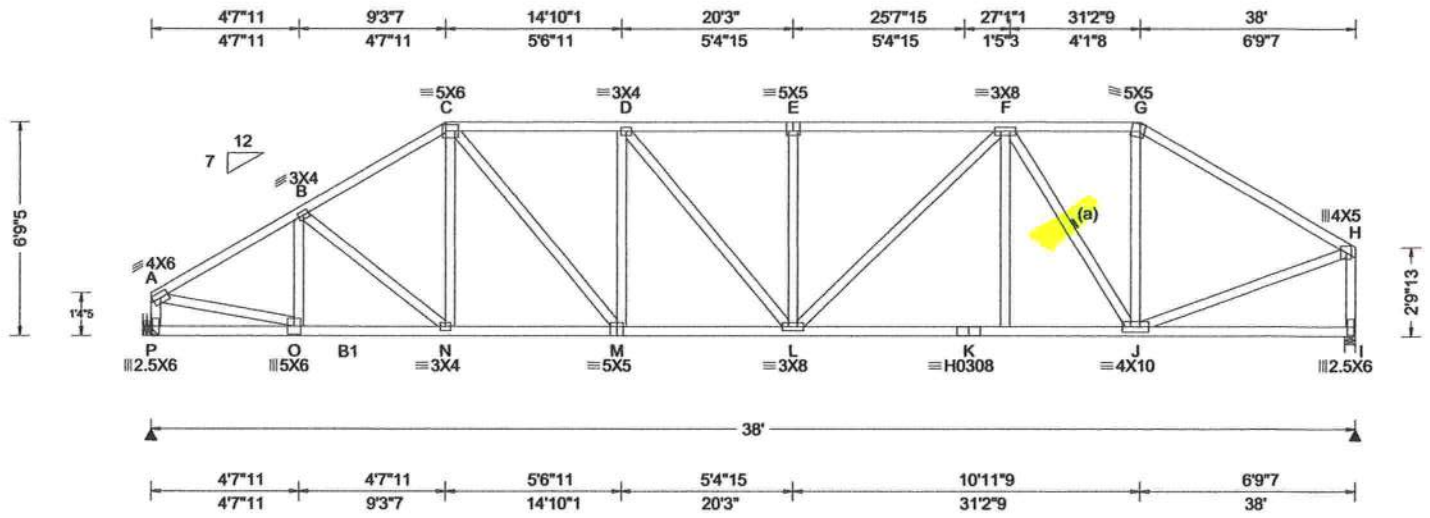
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632722 / HIPS FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E22	Cust: R 215 JRef: 1Xf22150002 T52 / DrwNo: 117.22.0835.45062 JB / WHK 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.144	E	999	480
VERT(CL): 0.277	E	999	360
HORZ(LL): 0.042	C	-	-
HORZ(TL): 0.081	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.941
Max BC CSI: 0.576
Max Web CSI: 0.731

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1720	/-	/-	/895	/274	/143
I	1706	/-	/-	/857	/281	/-

Wind reactions based on MWFRS
P Brg Width = - Min Req = -
I Brg Width = 4.0 Min Req = 1.5
Bearing I 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	747	-2270	E - F	1094	-2638
B - C	875	-2326	F - G	665	-1587
C - D	1034	-2484	G - H	695	-1921
D - E	1094	-2638			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1925	-654	L - K	2117	-792
N - M	1945	-662	K - J	2117	-792
M - L	2506	-907			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - P	551	-1674	L - F	725	-231
A - O	1919	-592	F - J	522	-989
C - M	840	-401	J - G	539	-162
M - D	349	-501	J - H	1647	-538
E - L	304	-390	H - I	596	-1674

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

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

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=0' uses the following support conditions: 0'
Bearing P (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

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.

End verticals 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 6-9-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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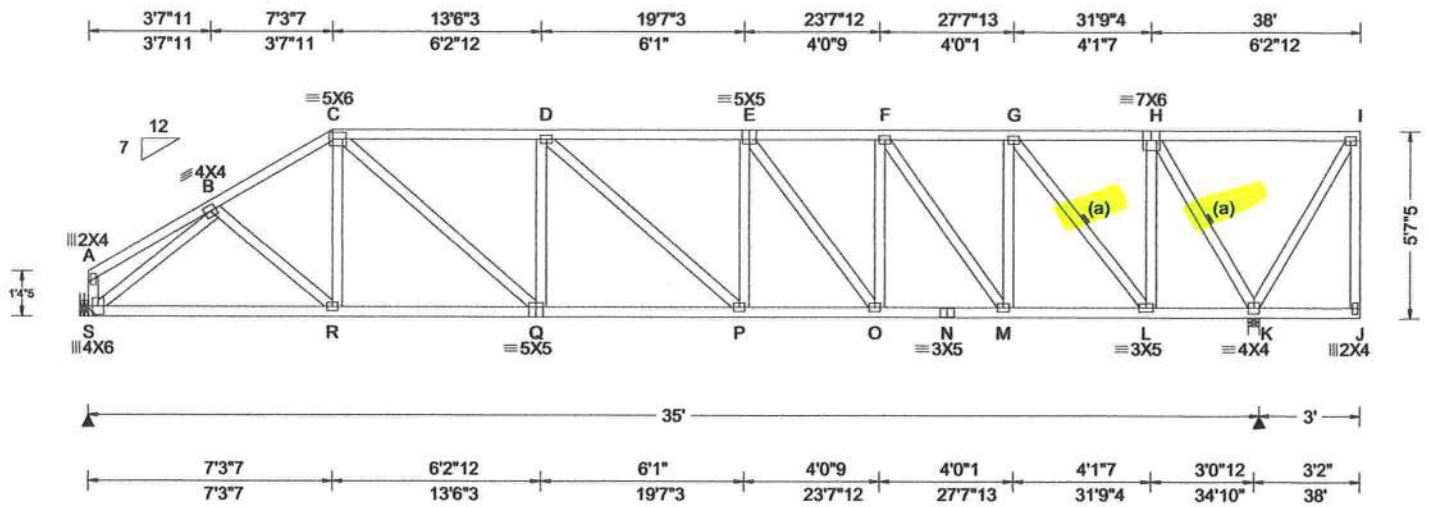
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632724 / HIPM FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E23	Cust: R 215 JRef: 1Xf22150002 T47 / DrwNo: 117.22.0835.45203 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.123	P	999	480
VERT(CL): 0.258	P	999	360
HORZ(LL): 0.047	K	-	-
HORZ(TL): 0.099	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.645
Max Web CSI: 0.852

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
S	1442 /-	/-	/812	/241	/149
K	1724 /-	/-	/896	/323	/-

Wind reactions based on MWFRS
S Brg Width = - Min Req = -
K Brg Width = 4.0 Min Req = 1.7
Bearing K is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	809	-1909	E - F	978	-2064
C - D	1073	-2269	F - G	744	-1578
D - E	1104	-2340	G - H	381	-781

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1467	-711	O - N	2039	-970
R - Q	1606	-746	N - M	2039	-970
Q - P	2294	-1092	M - L	1536	-728
P - O	2336	-1108	L - K	722	-358

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	748	-1898	F - M	405	-838
C - Q	880	-455	M - G	786	-295
Q - D	357	-463	G - L	580	-1261
E - O	225	-478	L - H	1074	-427
O - F	459	-150	H - K	843	-1667

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

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

End verticals not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 5-7-5.

COA #6278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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

Hangers / Ties

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

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=0' uses the following support conditions: 0'
Bearing S (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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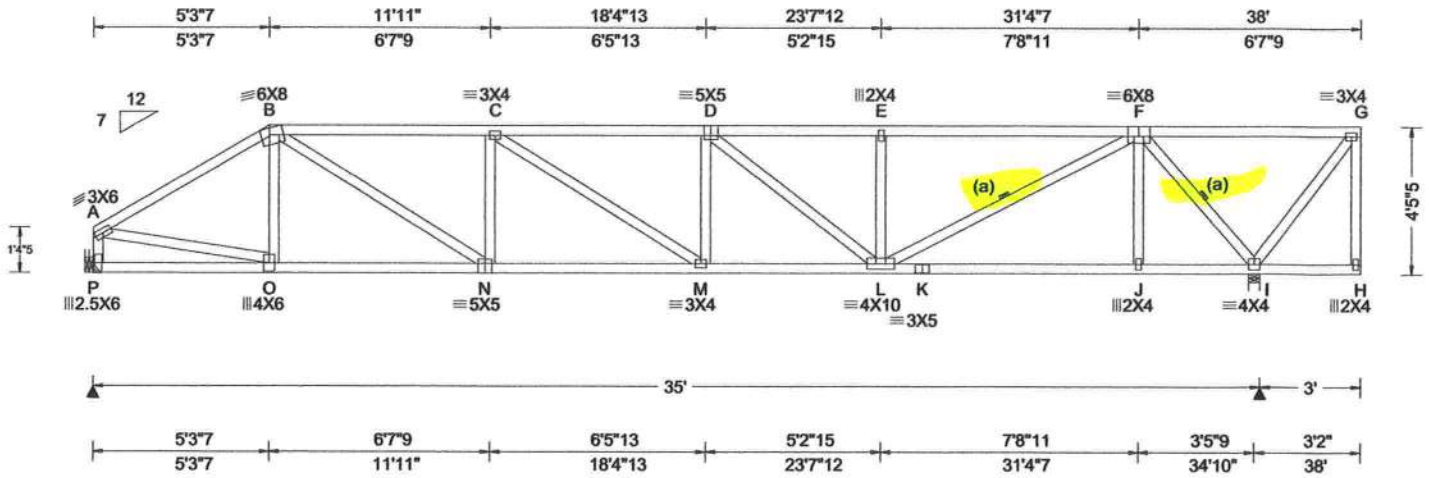
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 632773 / HIPM FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E24	Cust: R 215 JRef: 1Xf22150002 T50 / DrwNo: 117.22.0835.45205 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.80 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.189	M	999	480
VERT(CL): 0.396	M	999	360
HORZ(LL): 0.049	B	-	-
HORZ(TL): 0.102	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.881
Max BC CSI: 0.775
Max Web CSI: 0.725

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1442	/-	/-	/787	/249	/108
I	1724	/-	/-	/902	/319	/-

Wind reactions based on MWFRS
P Brg Width = - Min Req = -
I Brg Width = 4.0 Min Req = 1.7
Bearing I 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	833	-1947	D - E	1279	-2685
B - C	1322	-2761	E - F	1279	-2685
C - D	1446	-3034			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
O - N	1621	-781	L - K	1133	-554
N - M	2803	-1351	K - J	1133	-554
M - L	3037	-1454	J - I	1133	-554

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - P	583	-1398	D - L	226	-468
A - O	1613	-662	E - L	318	-413
B - N	1353	-656	L - F	1762	-824
N - C	422	-597	F - I	959	-1933

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

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

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

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=0' uses the following support conditions: 0'
Bearing P (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Wind

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

End verticals not exposed to wind pressure.

Right cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

Additional Notes

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

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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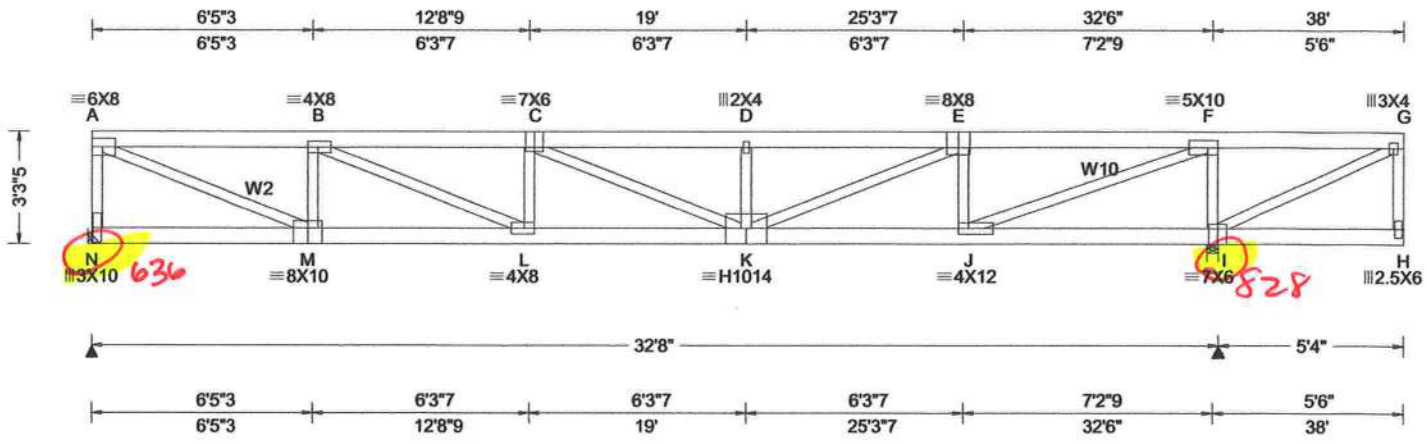
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619270 / FLAT FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** E25	Cust: R 215 JRef: 1Xf22150002 T3 / DrwNo: 117.22.0835.44734 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.80 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.310	D	999	480
VERT(CL): 0.624	D	627	360
HORZ(LL): 0.056	A	-	-
HORZ(TL): 0.113	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.300
Max BC CSI: 0.473
Max Web CSI: 0.900

VIEW Ver: 20.01.01A.0724.11

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2569	/-	/-	/-	/636	/-
I	3348	/-	/-	/-	/828	/-

Wind reactions based on MWFRS
N Brg Width = - Min Req = -
I Brg Width = 4.0 Min Req = 2.8
Bearing I 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	1120	-4563	D - E	1754	-7120
B - C	1677	-6838	E - F	1169	-4830
C - D	1754	-7120	F - G	389	-93

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4736	-1181	K - J	4996	-1228
L - K	6906	-1709			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	668	-2369	D - K	345	-663
A - M	4986	-1224	E - J	572	-1616
M - B	586	-1675	J - F	5214	-1269
B - L	2323	-549	F - I	846	-2722
L - C	306	-657	I - G	106	-442
K - E	2363	-578			

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3; W2,W10 2x4 SP M-31;

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 30 plf at 0.00 to 30 plf at 38.00
BC: From 10 plf at 0.00 to 10 plf at 38.00
TC: 129 lb Conc. Load at 0.06, 2.06, 4.06, 6.06 8.06,10.06,12.06,14.06,16.06,18.06,20.06,20.36 22.44,24.44,26.44,28.44,30.44,32.44,34.44,36.44
BC: 90 lb Conc. Load at 0.06, 2.06, 4.06, 6.06 8.06,10.06,12.06,14.06,16.06,18.06,20.06,20.36 22.44,24.44,26.44,28.44,30.44,32.44,34.44,36.44

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Right cantilever is exposed to wind

Additional Notes

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 3-3-5.

COA #0278
04/27/2022
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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 hanger connections are based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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=0' uses the following support conditions: 0'
Bearing N (0', 9'1"2) HUS26
Supporting Member: (2)2x6 SP 2400f-2.0E
(14) 0.162"x3.5" nails into supporting member,
(4) 0.162"x3.5" nails into supported member.

COA #0278

04/27/2022

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ALPINE
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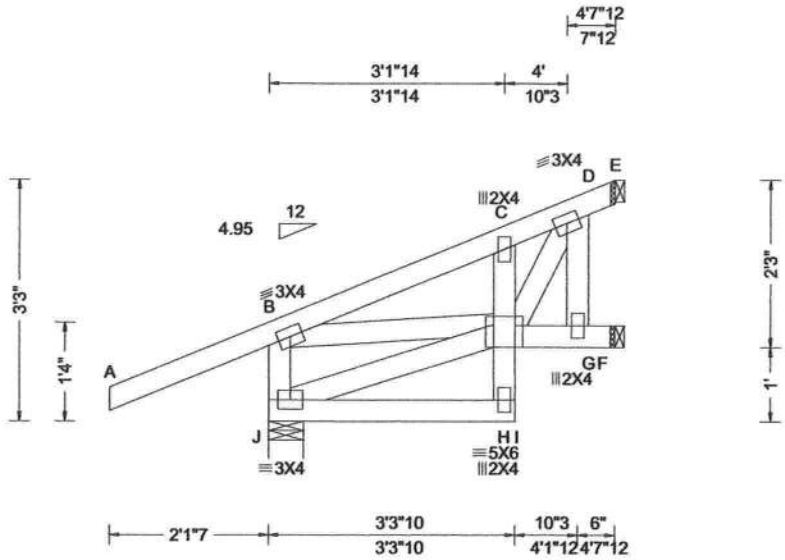
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398083 / HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** HJ01	Cust: R 215 JRef: 1Xf22150002 T25 / DrwNo: 117.22.0835.45407 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 C 999 480
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.003 C 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 G - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 G - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.318
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.040
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.035
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J	186	/-	/-	/-	/45	/-
F	55	/-	/-	/-	/7	/-
E	57	/-	/-	/-	/9	/-

Wind reactions based on MWFRS
J Brg Width = 5.7 Min Req = 1.5
F Brg Width = 1.5 Min Req = -
E Brg Width = 1.5 Min Req = -
Bearing J is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Loading

Hipjack supports 3-3-7 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.

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 3-3-0.

COA #0278

04/27/2022

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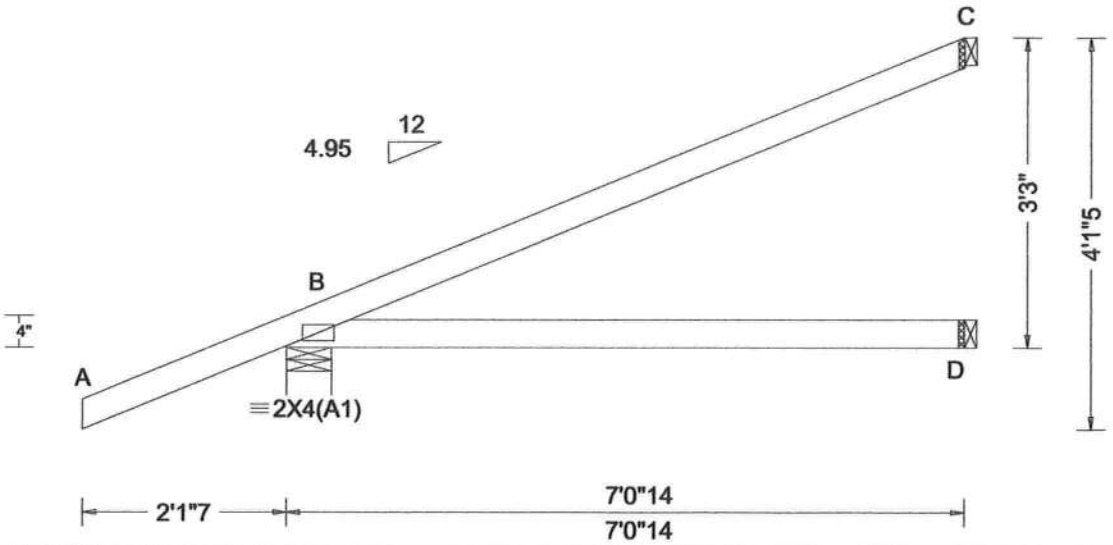
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398085 / HIP_ FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** HJ02	Cust: R 215 JRef: 1Xf22150002 T44 / DrwNo: 117.22.0835.45688 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.008 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.017 B - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.716
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.328
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	310	/-	/-	/-	/68	/-
D	81	/-	/-	/30	/-	/-
C	215	/-	/-	/-	/76	/-

Wind reactions based on MWFRS
B Brg Width = 5.7 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Loading

Hipjack supports 5-0-0 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-0.

COA #0278

04/27/2022

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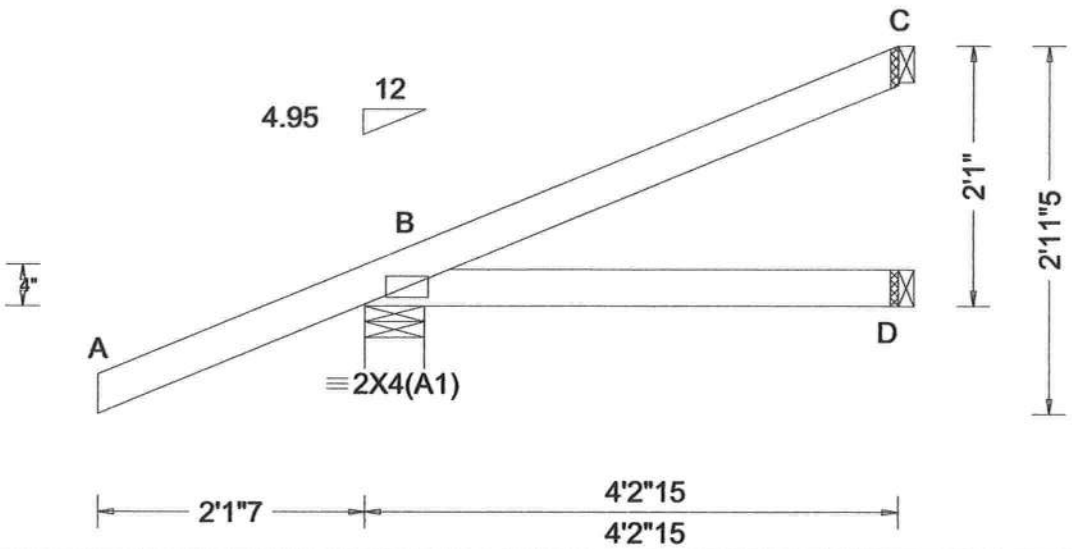
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398078 / HIP_ FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** HJ03	Cust: R 215 JRef: 1Xf22150002 T17 / DrwNo: 117.22.0835.45876 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.003 B - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.414
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.121
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	221	/-	/-	/-	/56	/-
D	12	/-	/-	/15	/-	/-
C	54	/-	/-	/-	/20	/-

Wind reactions based on MWFRS
B Brg Width = 5.7 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Loading

Hipjack supports 3-0-0 setback jacks with no webs.

Wind

Wind loads and reactions based on MWFRS.

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-1-0.

COA #0278

04/27/2022

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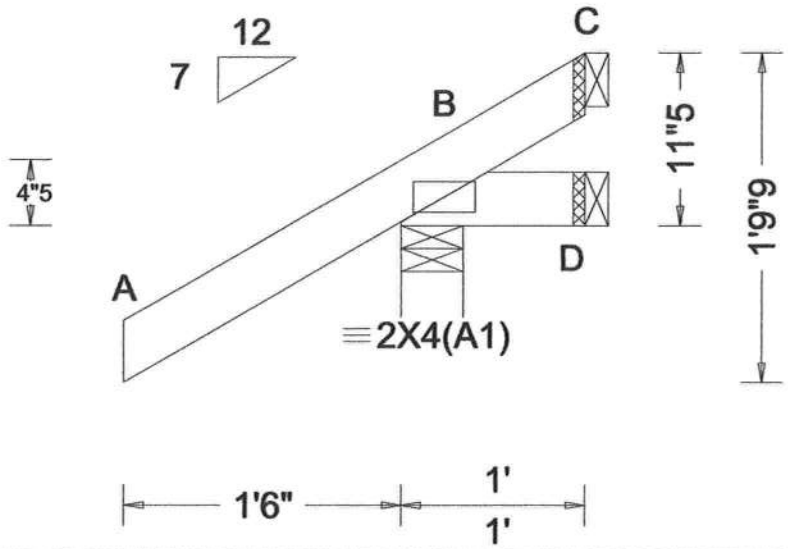
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619227 / JACK FROM: CDM	Ply: 1 Qty: 6	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** J01	Cust: R 215 JRef: 1Xf22150002 T6 / DrwNo: 117.22.0835.44344 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.272 Max BC CSI: 0.039 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	257	/-	/-	/207	/62	/44
D	5	/-17	/-	/15	/16	/-
C	-	/-55	/-	/35	/55	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 0-11-5.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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ALPINE
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6750 Forum Drive
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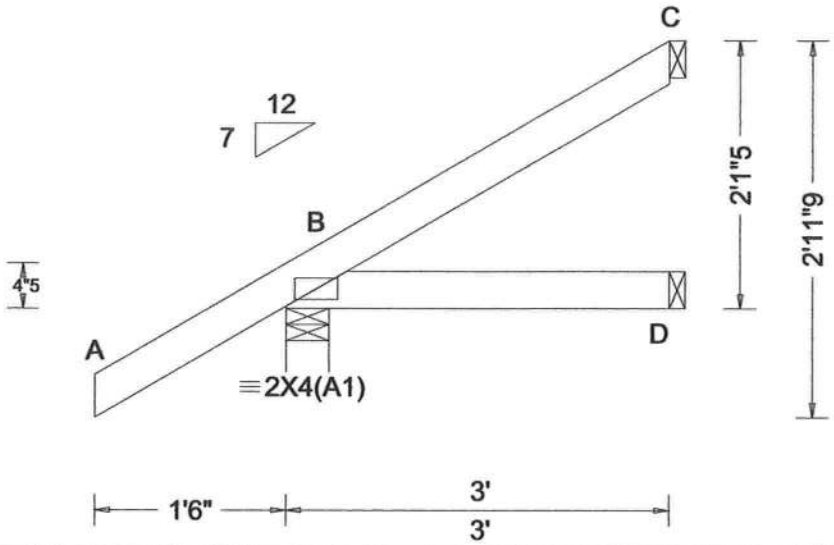
Orlando FL, 32821

SEQN: 619229 / EJAC FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** J02	Cust: R 215 JRef: 1Xf22150002 T16 / DrwNo: 117.22.0835.44781 JB / WHK 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.300 Max BC CSI: 0.073 Max Web CSI: 0.000 VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	265	/-	/-	/192	/36	/86
D	50	/-	/-	/32	/-	/-
C	63	/-	/-	/38	/38	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 2-1-5.

COA #0278
04/27/2022
Florida Certificate of Product Approval #FL 1999

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

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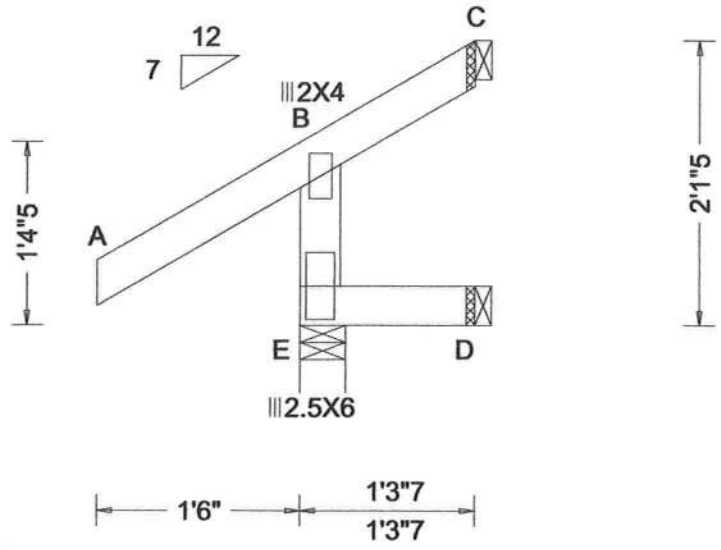
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 619242 / JACK FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** J03	Cust: R 215 JRef: 1Xf22150002 T39 / DrwNo: 117.22.0835.44515 JB / WHK 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 B 999 480
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 B 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 B - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.210
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.018
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.095
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 4.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.01.01A.0724.11
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	214	/-	/-	/191	/74	/-
D	26	/-	/-	/13	/-	/-
C	-	/-19	/-	/47	/53	/50

Wind reactions based on MWFRS
E Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

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 2-1-5.

COA #0278

04/27/2022

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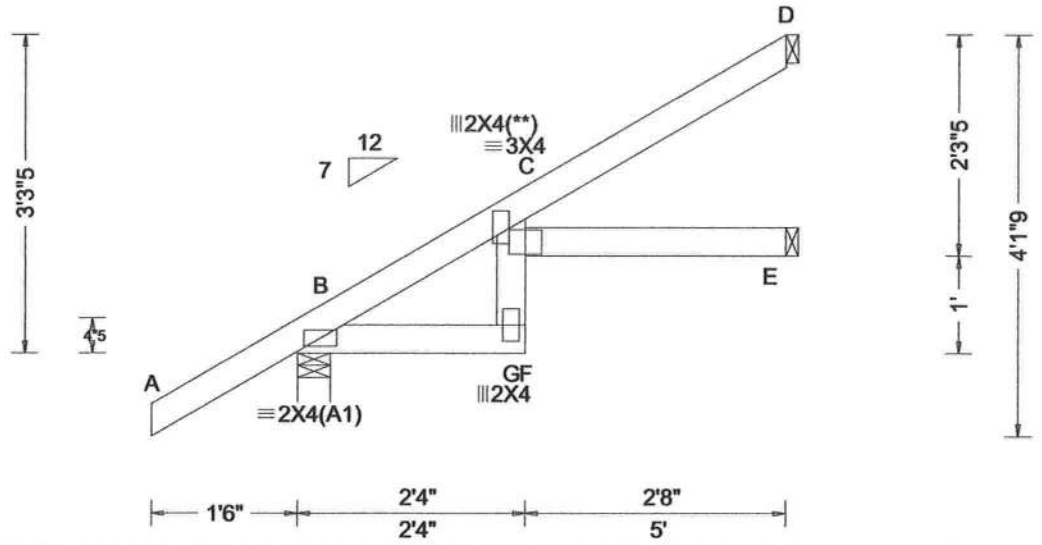
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619247 / EJAC FROM: CDM	Ply: 1 Qty: 7	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** J04	Cust: R 215 JRef: 1Xf22150002 T38 / DrwNo: 117.22.0835.44281 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.049	F	999	480
VERT(CL): 0.097	F	598	360
HORZ(LL): 0.030	C	-	-
HORZ(TL): 0.060	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.416
Max BC CSI: 0.122
Max Web CSI: 0.168

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	335	/-	/-	/232	/34	/127
E	63	/-	/-	/35	/-	/-
D	143	/-	/-	/96	/66	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Plating Notes

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-5.

COA #0278

04/27/2022

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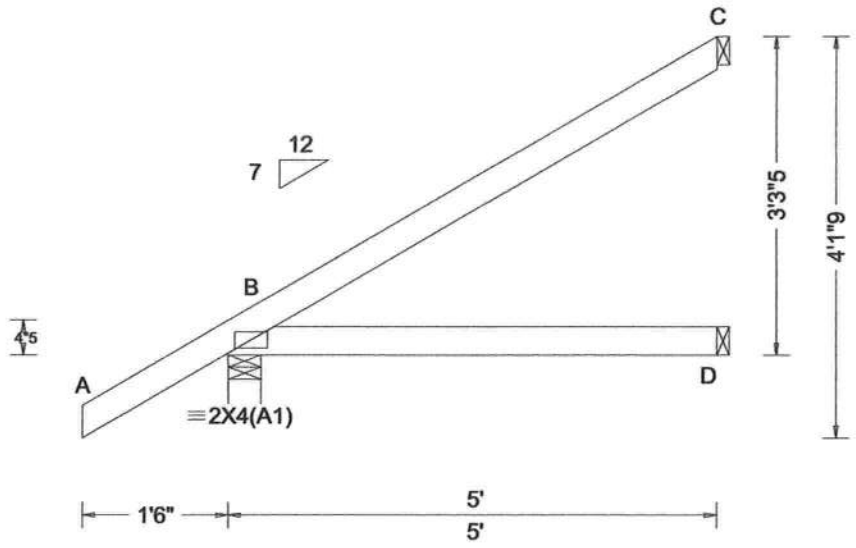
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619240 / EJAC FROM: CDM	Ply: 1 Qty: 30	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** J05	Cust: R 215 JRef: 1Xf22150002 T42 / DrwNo: 117.22.0835.44750 JB / WHK 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.008 D - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.327
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.251
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.000
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	VIEW Ver: 20.01.01A.0724.11
	GCpi: 0.18	WAVE	
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
B	335 /-	/-	/232	/34	/127
D	90 /-	/-	/52	/-	/-
C	129 /-	/-	/83	/71	/-

Wind reactions based on MWFRS
B Brg Width = 4.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is 3-3-5.

COA #0278

04/27/2022

Florida Certificate of Product Approval #FL 1999

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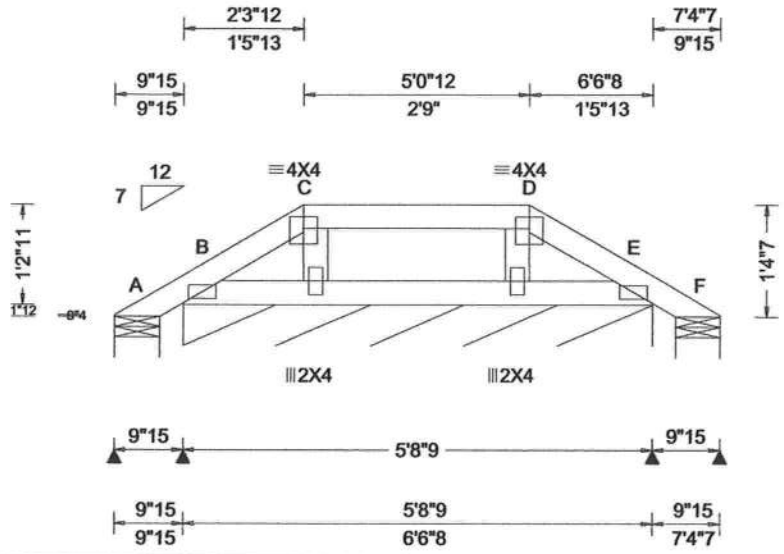
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 619312 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** PB01	Cust: R 215 JRef: 1Xf22150002 T41 / DrwNo: 117.22.0835.44547 JB / WHK 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.52 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

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	H	999	480
VERT(CL): 0.000	H	999	360
HORZ(LL): 0.000	H	-	-
HORZ(TL): 0.000	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.020
Max Web CSI: 0.020

VIEW Ver: 20.01.01A.0724.11

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
A	17 / -	/ -	/25	/13	/33
B*	75 / -	/ -	/50	/9	/-
F	17 / -	/ -	/16	/3	/-

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 68.6 Min Req = -
F Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & F 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

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.

Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-4-7.

COA #0278
04/27/2022
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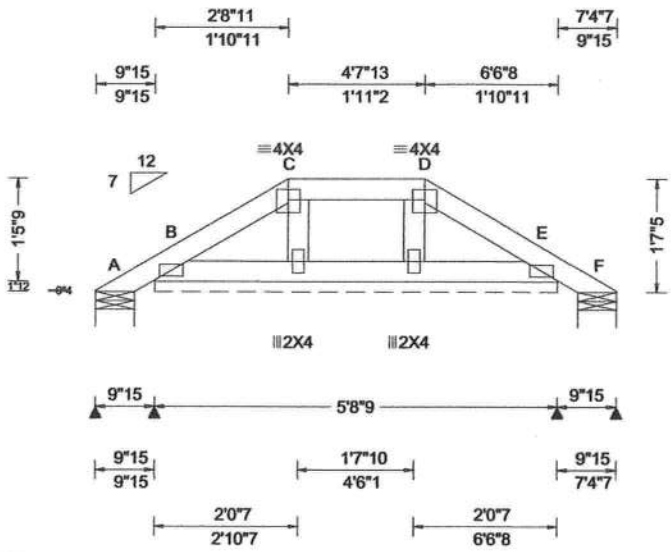
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398063 / GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** PB02	Cust: R 215 JRef: 1Xf22150002 T19 / DrwNo: 117.22.0835.44969 JB / WHK 04/27/2022	



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.64 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 GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 E 999 480 VERT(CL): 0.001 E 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.019 Max Web CSI: 0.017 VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	10	/-	/-	/27	/18	/39
B*	77	/-	/-	/53	/9	/-
F	10	/-	/-	/10	/1	/-

Wind reactions based on MWFRS
A Brg Width = 6.5 Min Req = 1.5
B Brg Width = 68.6 Min Req = -
F Brg Width = 6.5 Min Req = 1.5
Bearings A, B, & F 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

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.

Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-7-5.

COA #0 278

04/27/2022

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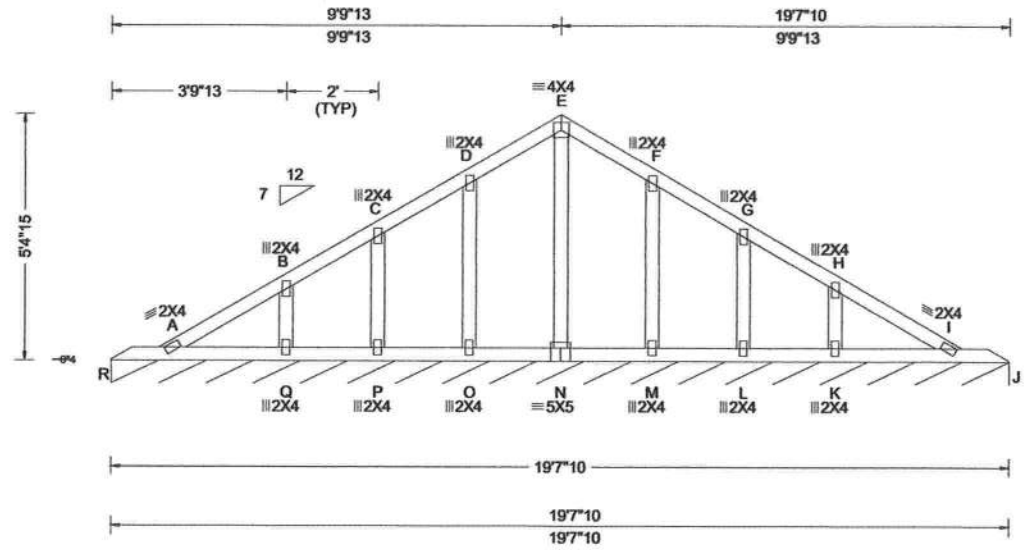
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 398068 / VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** V01	Cust: R 215 JRef: 1Xf22150002 T10 / DrwNo: 117.22.0835.44797 JB / WHK 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.32 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 Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 F 999 480 VERT(CL): 0.001 F 999 360 HORZ(LL): 0.001 F - - HORZ(TL): 0.001 F - - Creep Factor: 2.0 Max TC CSI: 0.063 Max BC CSI: 0.037 Max Web CSI: 0.049 VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
J*	81	/-	/-	/41	/11	/7

Wind reactions based on MWFRS
J Brg Width = 235 Min Req = -
Bearing R is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 5-4-15.

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

Truss designed to support 8" maximum gable end overhang.

COA #0278

04/27/2022

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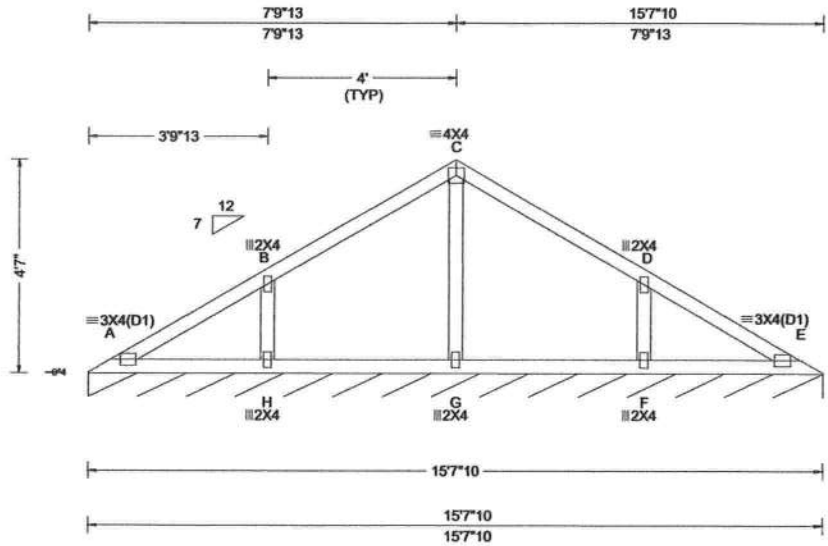
SEQN: 398070 / VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** V02	Cust: R 215 JRef: 1Xf22150002 T45 / DrwNo: 117.22.0835.45877 JB / WHK 04/27/2022



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 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.08 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: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 A 999 480 VERT(CL): 0.008 A 999 360 HORZ(LL): -0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.288 Max BC CSI: 0.134 Max Web CSI: 0.091 VIEW Ver: 21.01.01A.0521.20	Gravity / Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 83 /- /- /43 /13 /7 Wind reactions based on MWFRS E Brg Width = 187 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 4-7-0.

COA #0278

04/27/2022

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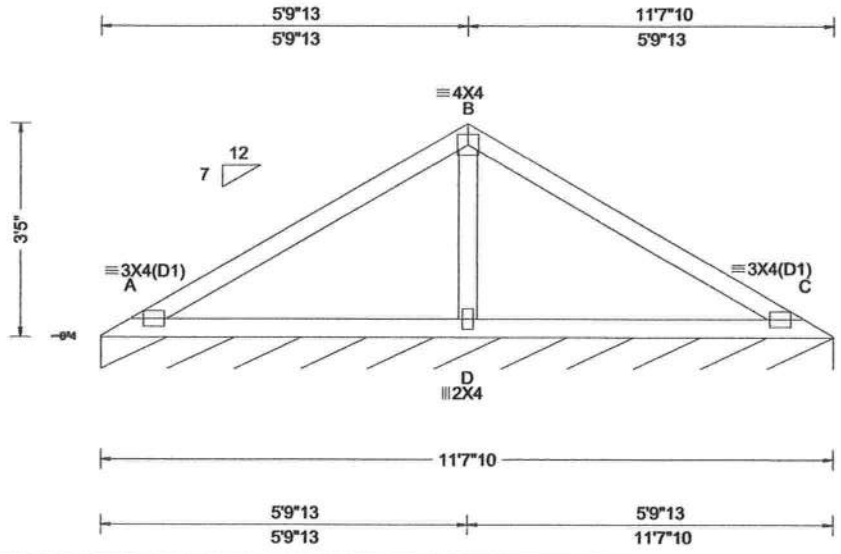
SEQN: 398072 / VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** V03	Cust: R 215 JRef: 1Xf22150002 T46 / DrwNo: 117.22.0835.45939 JB / WHK 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.67 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: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
FBC 7th Ed. 2020 Res.
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.021 A	999	480
VERT(CL):	0.043 A	999	360
HORZ(LL):	-0.009 C	-	-
HORZ(TL):	0.020 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.478
Max BC CSI: 0.397
Max Web CSI: 0.167

VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	83	/-	/-	/42	/13	/7

Wind reactions based on MWFRS
C Brg Width = 139 Min Req = -
Bearing A 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	466	-201	B - C	466	-201

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	358	-685

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 3-5-0.

COA #0278

04/27/2022

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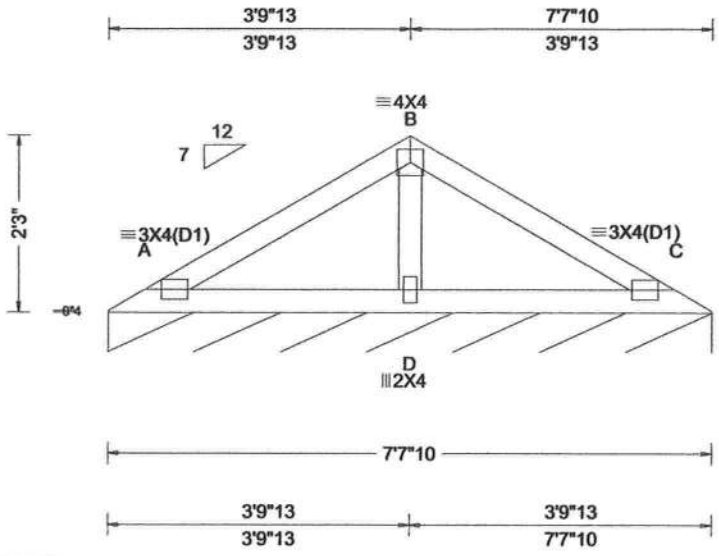
SEQN: 398074 / VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** V04	Cust: R 215 JRef: 1Xf22150002 T48 / DrwNo: 117.22.0835.45001 JB / WHK 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.006 A 999 480
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.012 A 999 360
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.003 C - -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.006 C - -
NCBCLL: 10.00	Mean Height: 17.25 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.177
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.155
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.070
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.01.01A.0521.20
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	83	/-	/-	/41	/10	/7

Wind reactions based on MWFRS
C Brg Width = 91.7 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 2-3-0.

COA #0278

04/27/2022

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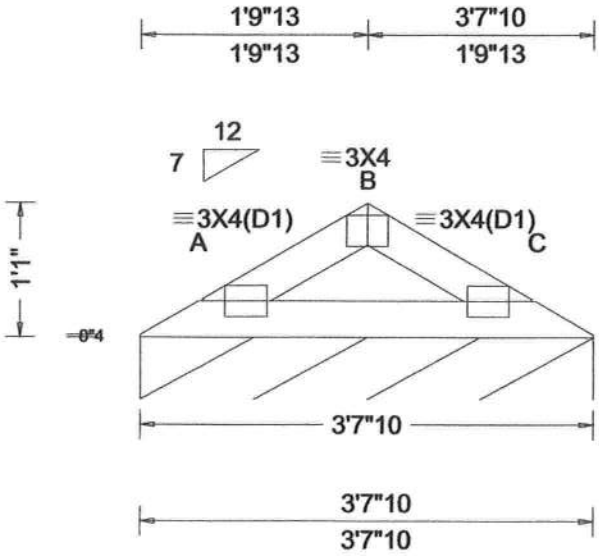
SEQN: 398076 / VAL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 22-7494 Lot 50 Emerald Cove - Garage Right **Truss Label:** V05	Cust: R 215 JRef: 1Xf22150002 T49 / DrwNo: 117.22.0835.45095 KD / YK 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.83 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 A 999 480 VERT(CL): 0.005 A 999 360 HORZ(LL): -0.001 A - - HORZ(TL): 0.002 A - - Creep Factor: 2.0 Max TC CSI: 0.061 Max BC CSI: 0.083 Max Web CSI: 0.000 VIEW Ver: 21.01.01A.0521.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
C*	82 /-	/-	/38	/5	/5

Wind reactions based on MWFRS
C Brg Width = 43.7 Min Req = -
Bearing A is a rigid surface.
Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS VALTN160118 and VAL180160118 for valley details.

The overall height of this truss excluding overhang is 1-1-0.

COA #0278

04/27/2022

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Gable Stud Reinforcement Detail

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

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
	SP DFL	#1	4' 6"	7' 4"	7' 8"	8' 8"	9' 0"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
		Stud	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
		Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" braces: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

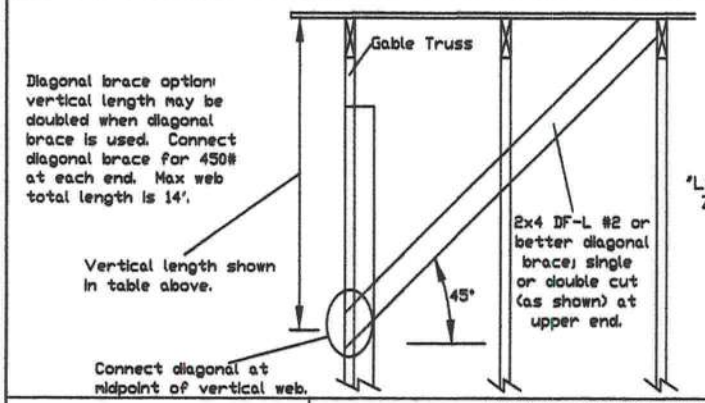
"L" bracing must be a minimum of 80% of web member length.

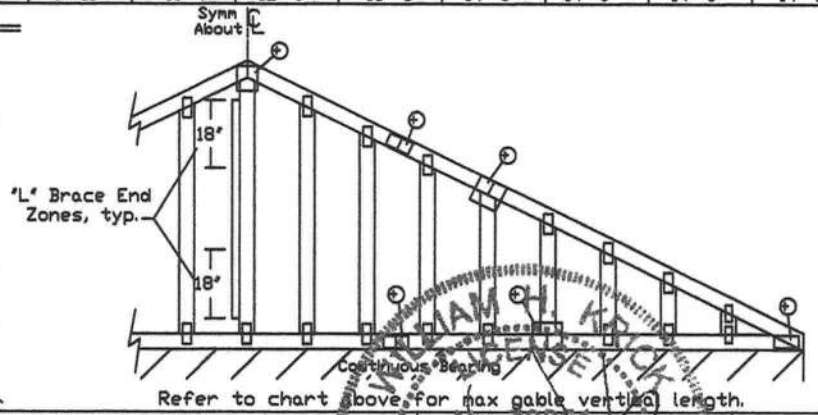
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

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

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





Refer to chart above for max gable vertical length.

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

WILLIAM H. KRICK
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/27/2022

COA #0278
Florida Certificate of Product Approval

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

Gable Stud Reinforcement Detail

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

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Grade (Brace)	No Braces	(1) 1x4 'L' Brace ✱ Group A	(1) 1x4 'L' Brace ✱ Group B	(1) 2x4 'L' Brace ✱ Group A	(1) 2x4 'L' Brace ✱ Group B	(2) 2x4 'L' Brace ✱✱ Group A	(2) 2x4 'L' Brace ✱✱ Group B	(1) 2x6 'L' Brace ✱ Group A	(1) 2x6 'L' Brace ✱ Group B	(2) 2x6 'L' Brace ✱✱ Group A	(2) 2x6 'L' Brace ✱✱ Group B
24" O.C.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
		#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
		Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Douglas Fir-Larch	Southern Pine✱✱✱
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine✱✱✱
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

✱✱✱For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

✱ For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

✱✱For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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

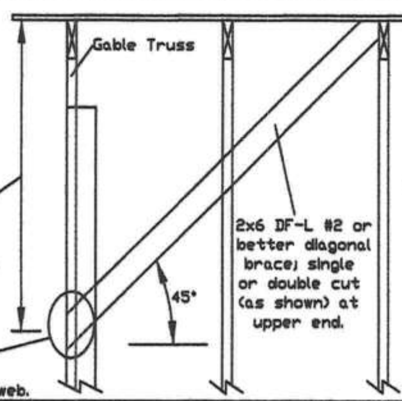
Gable Vertical Plate Sizes

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.

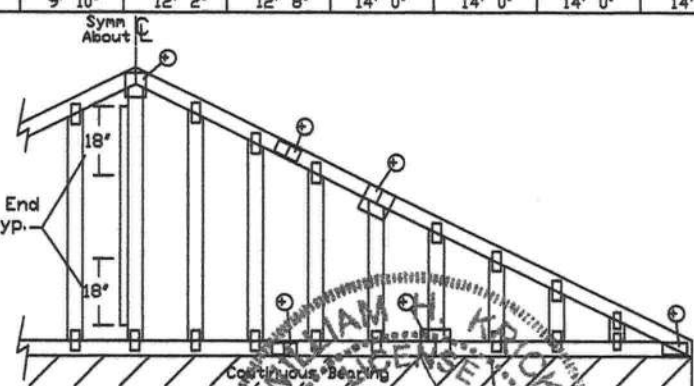
Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 525# at each end. Max web total length is 14'.



Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

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

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LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
COA #0 278 04/27/2022
Florida Certificate of Product Approval #FL 1999

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

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

CLR Reinforcing Member Substitution

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

Notes:

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

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

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

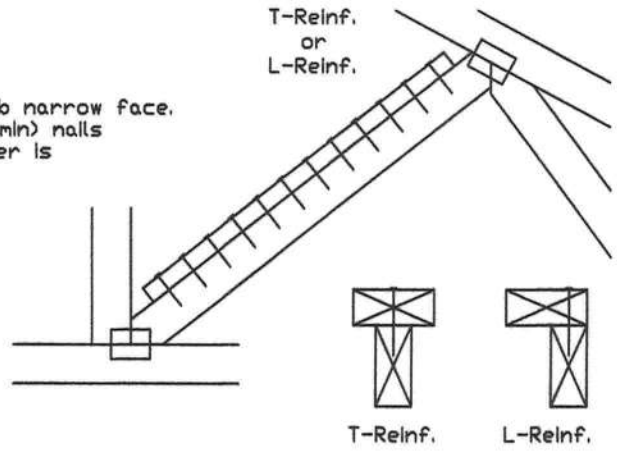
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

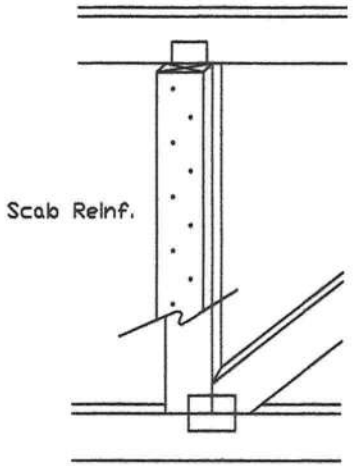
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

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



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04/27/2022

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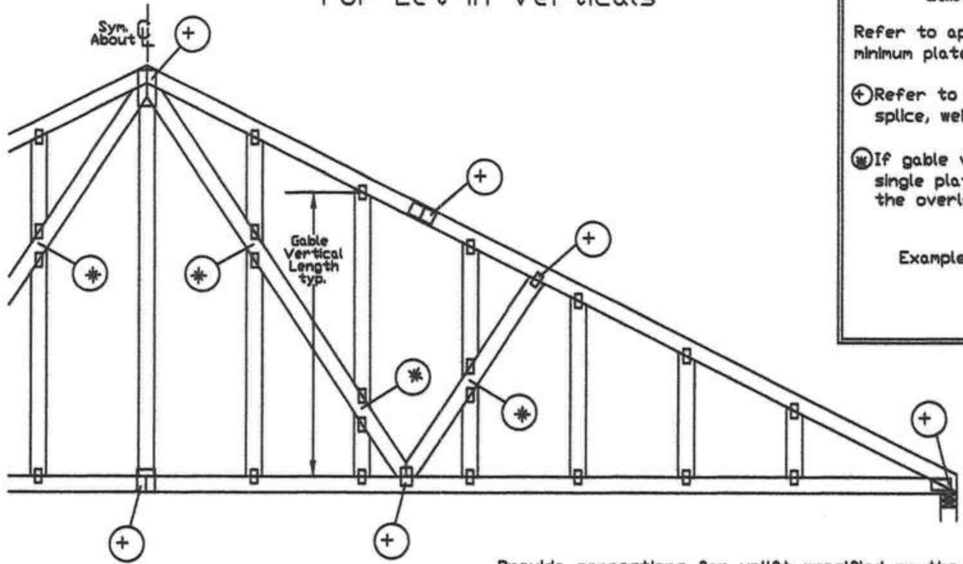
TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

COA #0276
Florida Certificate of Product Approval 1999

Gable Detail

For Let-in Verticals



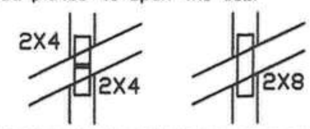
Gable Truss Plate Sizes

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

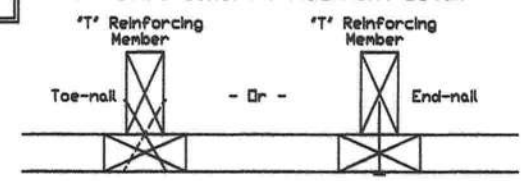
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(*) 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

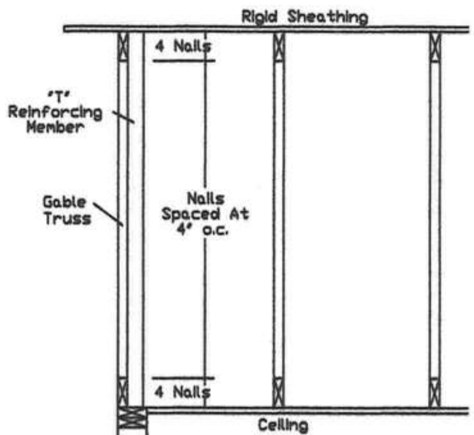
'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 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.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.



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

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

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WILLIAM ... LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

COA #0 278 04/27/2022
Florida Certificate of Product Approval

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

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

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

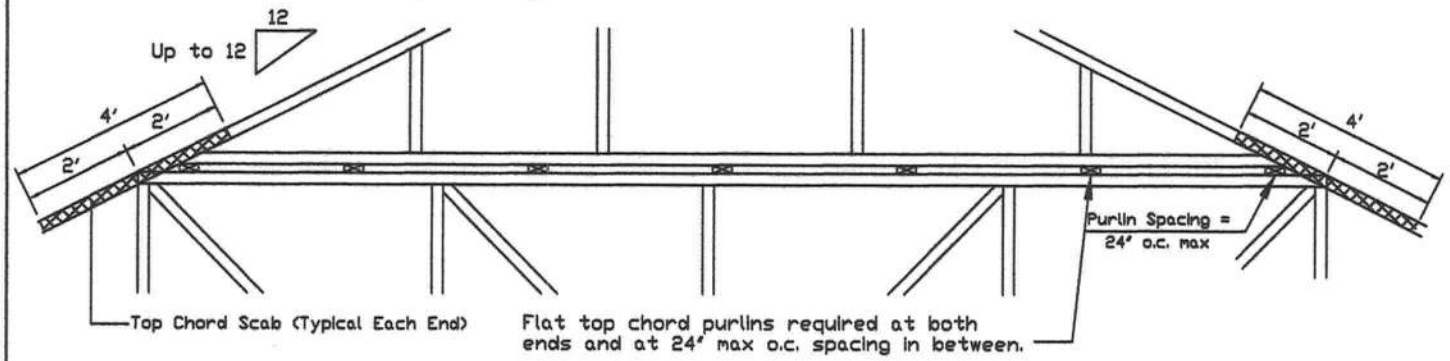
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



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

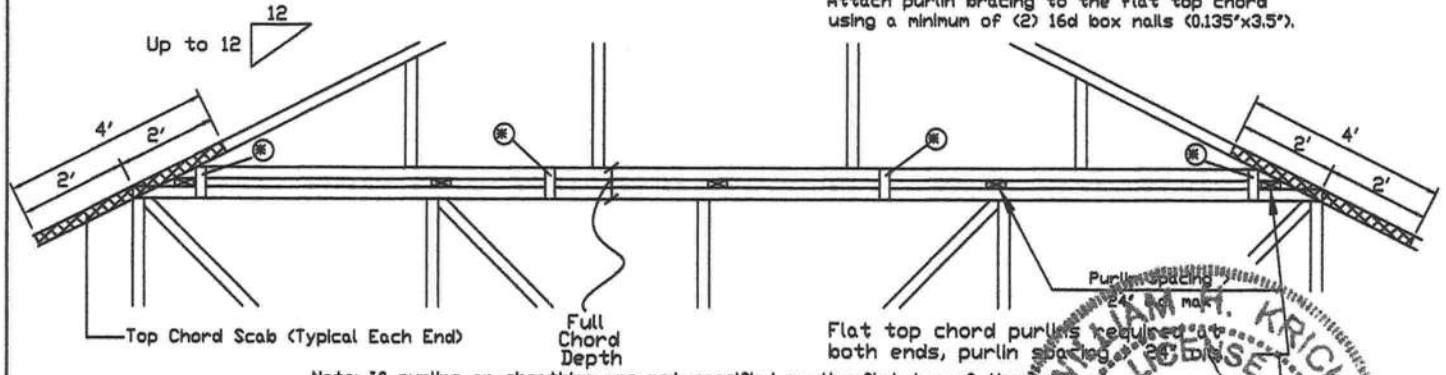
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

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



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

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

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

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

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

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

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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WILLIAM F. KRICK
LICENSE
No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

04/27/2022

COA #0778
Florida Certificate of Product Approval

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PB160160118

SPACING 1999 24.0"

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

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
535# connection or with (1) Simpson H2.5A or equivalent connector for
ASCE 7-16 180 mph. 30' Mean Height, Part. Enc. Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-16 160 mph. 30' Mean Height, Part. Enc. Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

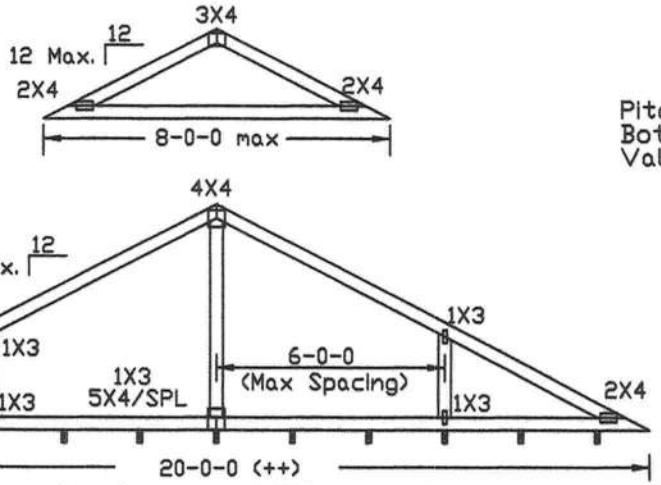
All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

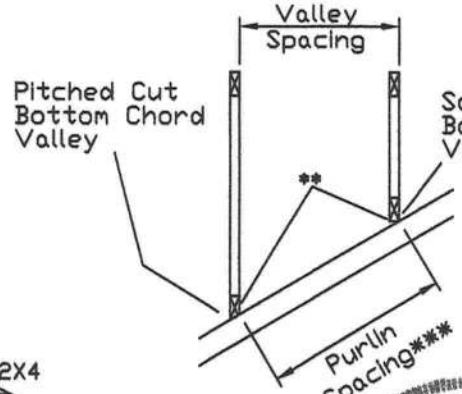
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

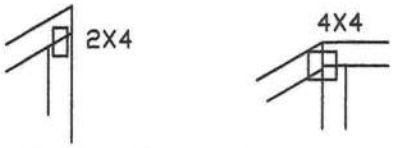
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

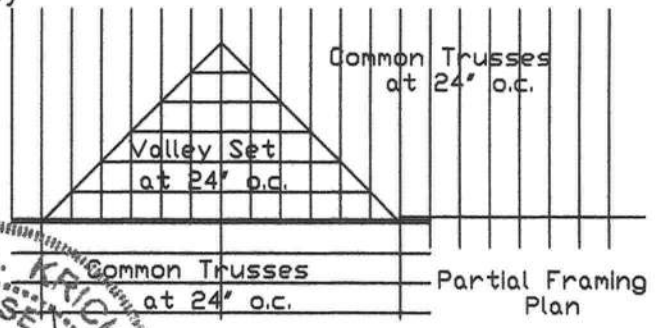


Supporting trusses at 24" o.c. maximum spacing.





Square Cut Bottom Chord Valley
Stubbed Valley End Detail
Optional Hip Joint Detail



Partial Framing Plan

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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ALPINE: www.alpineitw.com/ TPI: www.tpinst.org/ SBCA: www.sbcacomponents.com/ ICC: www.iccsafe.org

WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/27/2022

COA #0278
Florida Certificate of Product Approval #FL 1998

TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25	1.33	1.15	1.15
SPACING			24.0"	

REF	VALLEY DETAIL
DATE	01/26/2018
DRWG	VAL180160118

Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with: (2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location: 170 mph for SP (G = 0.55, min.), 155 mph for DF-L (G = 0.50, min.), or 120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

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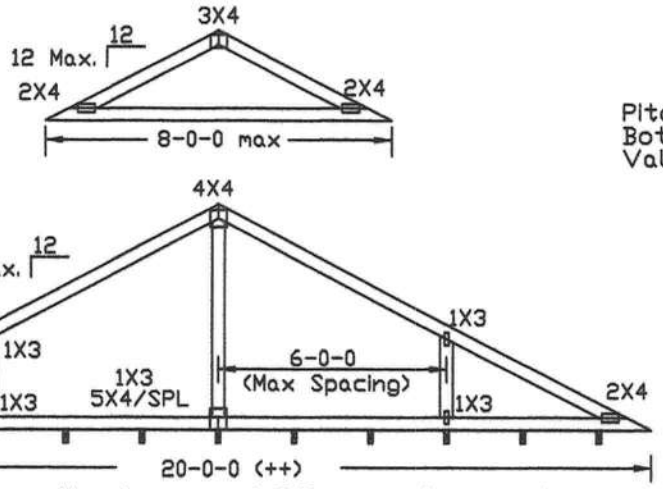
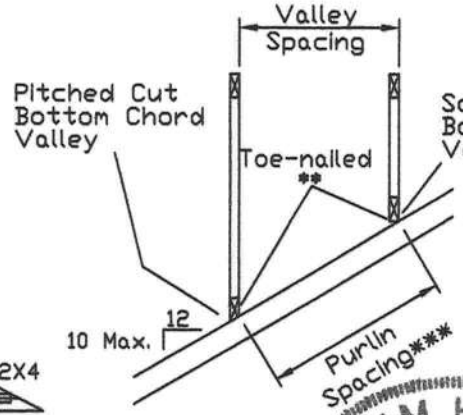
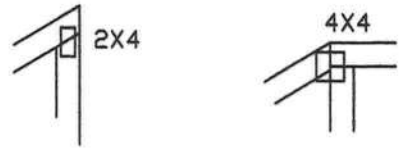


Supporting trusses at 24" o.c. maximum spacing.

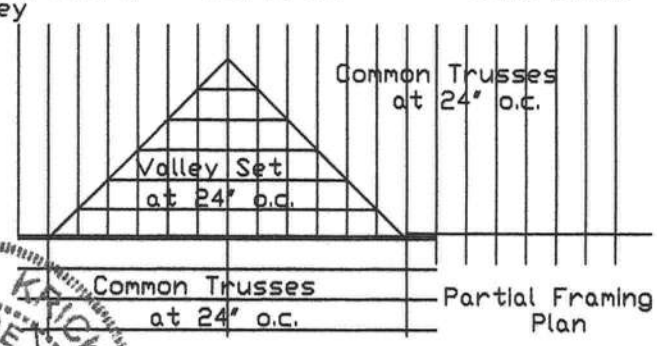




Stubbed Valley End Detail

Optional Hip Joint Detail

Square Cut Bottom Chord Valley



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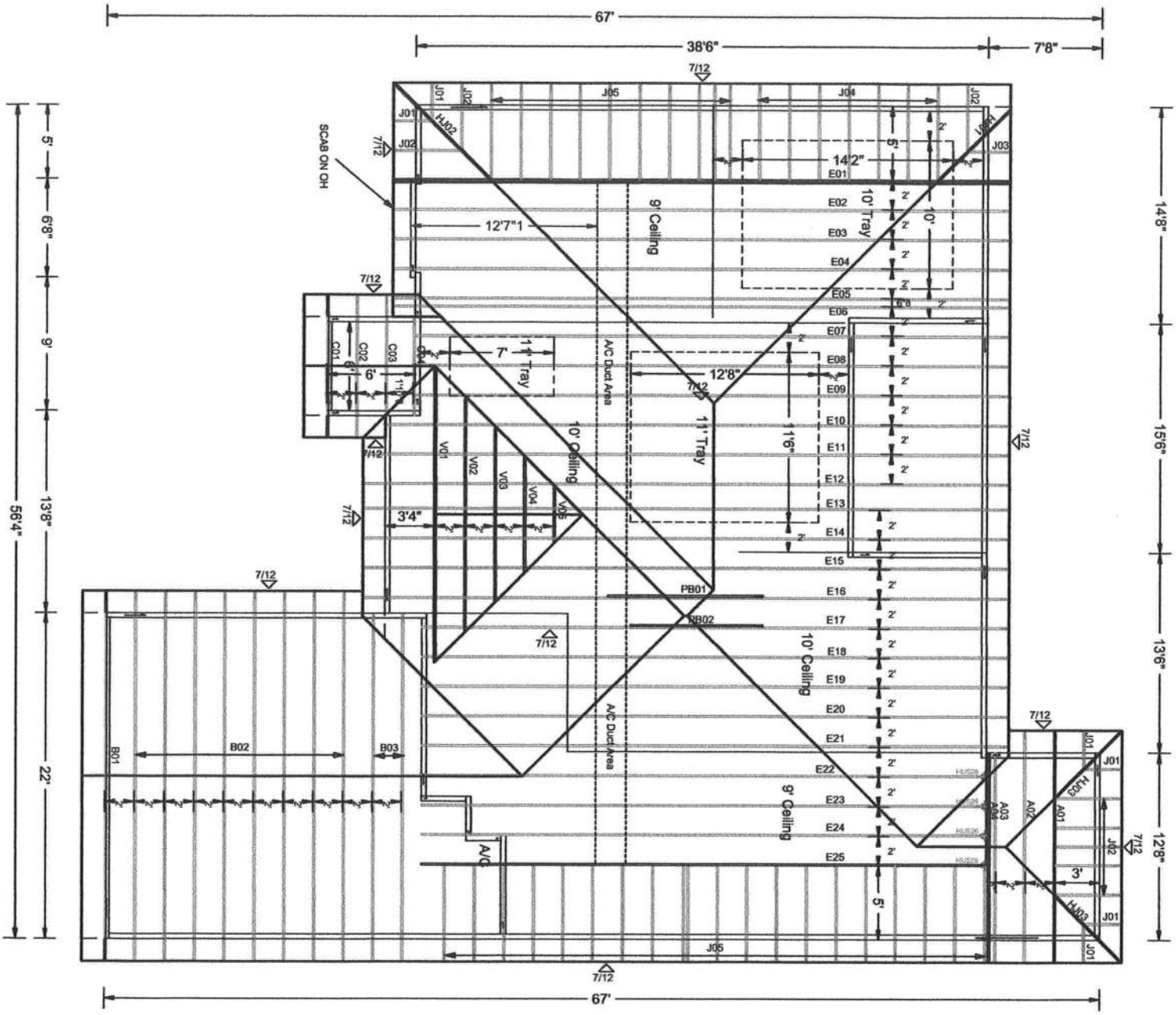
Code #0-279 Florida Certificate of Product Approval FL 1999

TC LL	30	30	40PSF	REF VALLEY DETAIL
TC DL	20	15	7PSF	DATE 01/26/2018
BC DL	10	10	10 PSF	DRWG VALTN160118
BC LL	0	0	0PSF	
TOT. LD.	60	55	57PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		



W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH: 7/12
OVERHANG: 18"
CEILING: 9', 10', w/Trays
EXT. WALLS: 4"
LOADING: 40psf
WIND LOAD: 130mph
EXPOSURE: C

DATE: 4/22/21

Truss to Truss Connectors:
(4) HUS26

Total Truss Quantity = 109.

PAGE NO: 1 OF 1	JOB NO: 22-7494	Job Name: Lot 50 Emerald Cove - Gar Customer: Gibraltar Contr. Designer: Kelly Caudill ADDRESS: SALESMAN: DB : <Not Found>	JOB #: 22-7494