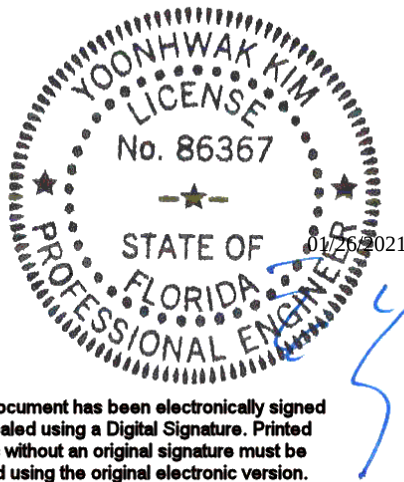




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Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 20-4966
Job Description: Dale and Karla Nickelson Res	
Address:	

Job Engineering Criteria:	
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.01.01A through 20.02.01A JRef #: 1X2e2150002
Wind Standard: ASCE 7-16 Wind Speed (mph): 130 Building Type: Closed	Design Loading (psf): 40.00, 55.00

This package contains general notes pages, 42 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	026.21.1006.45375	A01
3	026.21.1028.22487	A01B
5	026.21.1006.45532	A03
7	026.21.1006.46094	A05
9	026.21.1006.45547	A07
11	026.21.1006.45579	B01
13	026.21.1006.46032	B03
15	026.21.1006.46171	B05
17	026.21.1006.45718	C02
19	026.21.1006.45968	C04
21	026.21.1006.46157	C06
23	026.21.1006.46188	E01
25	026.21.1006.46313	E03
27	026.21.1006.45954	F04
29	026.21.1006.46296	FT02
31	026.21.1006.46063	M02
33	026.21.1006.45735	M04
35	026.21.1006.45781	PB02
37	026.21.1006.45796	PB03
39	026.21.1006.45766	PB06
41	026.21.1006.46235	PB08
43	A14015ENC160118	
45	BRCLBSUB0119	
47	PB160160118	

Item	Drawing Number	Truss
2	026.21.1006.46126	A01A
4	026.21.1006.45703	A02
6	026.21.1006.45406	A04
8	026.21.1006.45282	A06
10	026.21.1006.45875	A08
12	026.21.1006.45485	B02
14	026.21.1006.45593	B04
16	026.21.1006.45656	C01
18	026.21.1006.45907	C03
20	026.21.1006.45329	C05
22	026.21.1006.45923	D01
24	026.21.1006.46001	E02
26	026.21.1006.45516	F03
28	026.21.1006.45359	F05
30	026.21.1006.45844	M01
32	026.21.1006.45313	M03
34	026.21.1006.46218	PB01
36	026.21.1006.46156	PB03
38	026.21.1006.45344	PB04
40	026.21.1006.45578	PB07
42	026.21.1006.45921	PB09
44	A14030ENC160118	
46	GBLLETIN0118	
48	STRBRI014	

General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

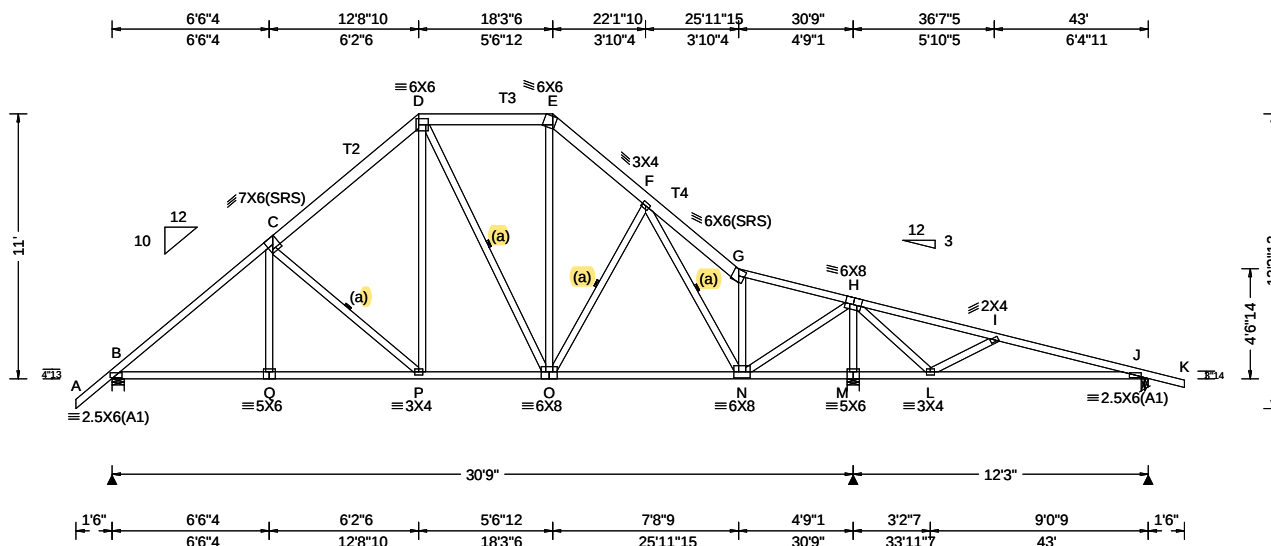
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

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

Job Number: 20-4966	Ply: 1	SEQN: 335897 / T27 / COMN	Cust: R215	JRef: 1X2e2150002
Dale and Karla Nickelson Res	Qty: 2	FROM: CDM	DrwNo: 026.21.1006.45375	KD / WHK 01/26/2021
Truss Label: A01				



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.052 P 999 240 VERT(TL): 0.102 P 999 180 HORZ(LL): 0.025 N - - HORZ(TL): 0.049 N - - Creep Factor: 2.0 Max TC CSI: 0.558 Max BC CSI: 0.734 Max Web CSI: 0.784 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1479 -/- /- /878 -/- /365 M 2219 -/- /- /1095 -/- /- J 440 -/- /- /221 /99 -/- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.7 M Brg Width = 6.0 Min Req = 2.6 J Brg Width = 3.5 Min Req = 1.5 Bearings B, M, & 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.

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T2,T3,
T4 2x6 SP 2400f-2.0E;
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

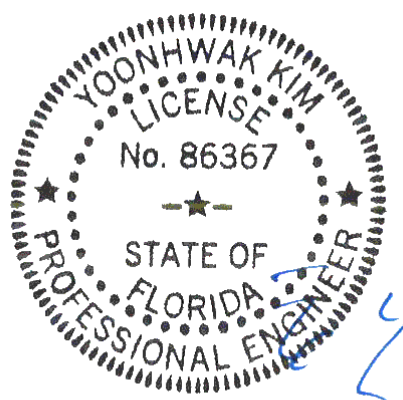
Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
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 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - Q	1289 -29	O - N	1073 0
Q - P	1286 -30	N - M	57 -792
P - O	985 0	M - L	58 -766

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - P	130 -410	N - H	2059 0
D - P	455 -32	M - H	0 -2215
O - E	484 -17	H - L	662 0
G - N	15 -906	L - I	138 -563

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

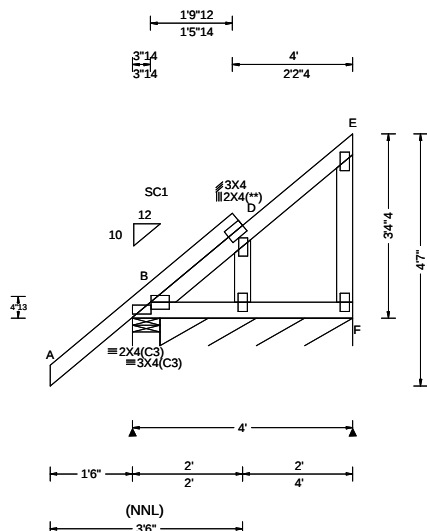
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A01A	Ply: 1 Qty: 1	SEQN: 335884 / T11 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46126 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 16.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 G 999 240 VERT(TL): 0.001 G 999 180 HORZ(LL): -0.000 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.044 Max Web CSI: 0.011 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 172 /- /- /141 /17 /47 F* 37 /- /- /29 /- /- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 F Brg Width = 42.0 Min Req = - Bearings B & B are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

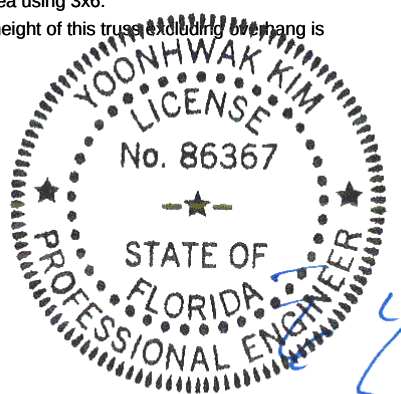
Wind loading based on both gable and hip roof types.

Additional Notes

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 noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

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



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01/26/2021

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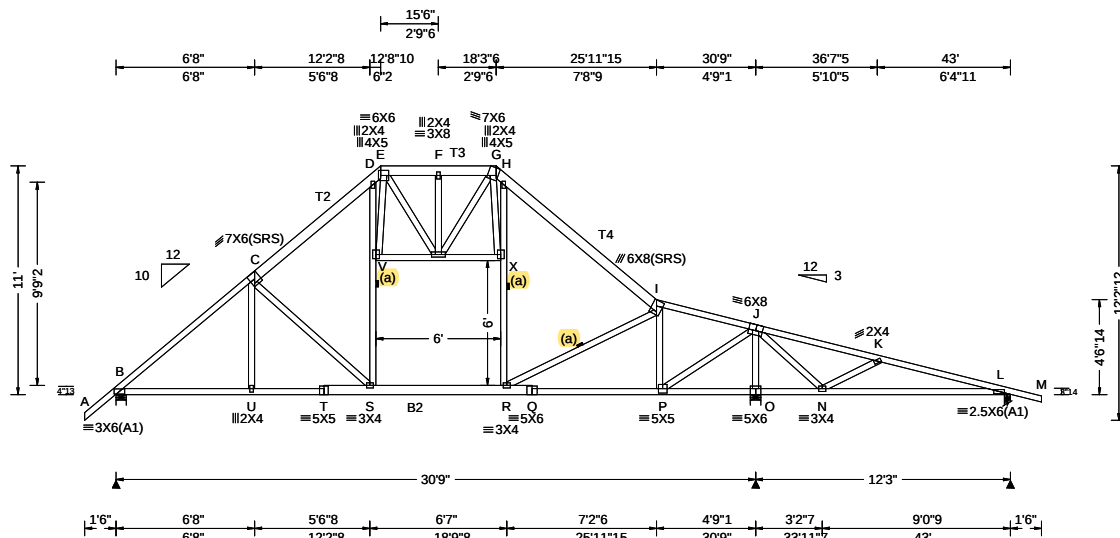
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

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

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

SEQN: 355274 FROM: CDM	COMN Ply: 1 Qty: 3	Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A01B	Cust: R 215 JRef: 1X2e2150002 T9 DrwNo: 026.21.1028.22487 / YK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.085 S 999 240 VERT(CL): 0.203 S 999 180 HORZ(LL): 0.093 R - - HORZ(TL): 0.224 R - - Creep Factor: 2.0 Max TC CSI: 0.723 Max BC CSI: 0.787 Max Web CSI: 0.830 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1721 -/- /- /916 -/- /365 O 2362 -/- /- /1181 -/- /- L 510 -/- /- /221 /147 -/- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 2.0 O Brg Width = 6.0 Min Req = 2.8 L Brg Width = 3.5 Min Req = 1.5 Bearings B, O, & 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.

Lumber Top chord: 2x4 SP #2; T2,T3, T4 2x6 SP 2400f-2.0E; Bot chord: 2x4 SP #2; B2 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3;				
Bracing (a) Continuous lateral restraint equally spaced on member.				
Loading Attic room loading from 12-6-0 to 18-6-0: Live Load: 30 PSF. Dead Load: 5 PSF Ceiling: 5 PSF, Kneewalls: 5 PSF Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL. Mechanical Unit Loads Supported by this Truss				
At	Truss	Unit	Unit	Supporting
X-Loc	Piece	Lbs.	Width	Trusses
15.07	BC	200.0	3.00	3
15.07	BC	200.0	3.00	3
15.07	BC	200.0	3.00	3
15.07	BC	200.0	3.00	3

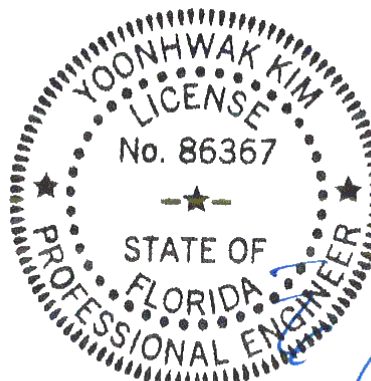
Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind
Wind loads based on MWFRS with additional C&C member design.
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 11-0-0.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	0 - 2172	G - H	51 - 1782
C - D	0 - 1831	H - I	0 - 1808
D - E	25 - 1553	I - J	57 - 1270
E - F	0 - 1205	J - K	437 - 311
F - G	0 - 1206	K - L	324 - 661

Chords	Tens.Comp.	Chords	Tens. Comp.
B - U	1566 - 68	Q - P	1282 0
U - T	1565 - 69	P - O	335 - 871
T - S	1566 - 68	O - N	335 - 845
S - R	1298 0	N - L	615 - 302
R - Q	1282 0		

Chords	Tens.Comp.	Chords	Tens. Comp.
C - S	175 - 424	I - P	0 - 1169
S - V	768 - 14	P - J	2179 0
V - E	712 - 83	O - J	0 - 2301
G - X	948 - 97	J - N	640 0
X - H	147 - 439	N - K	133 - 562
X - R	564 - 3		

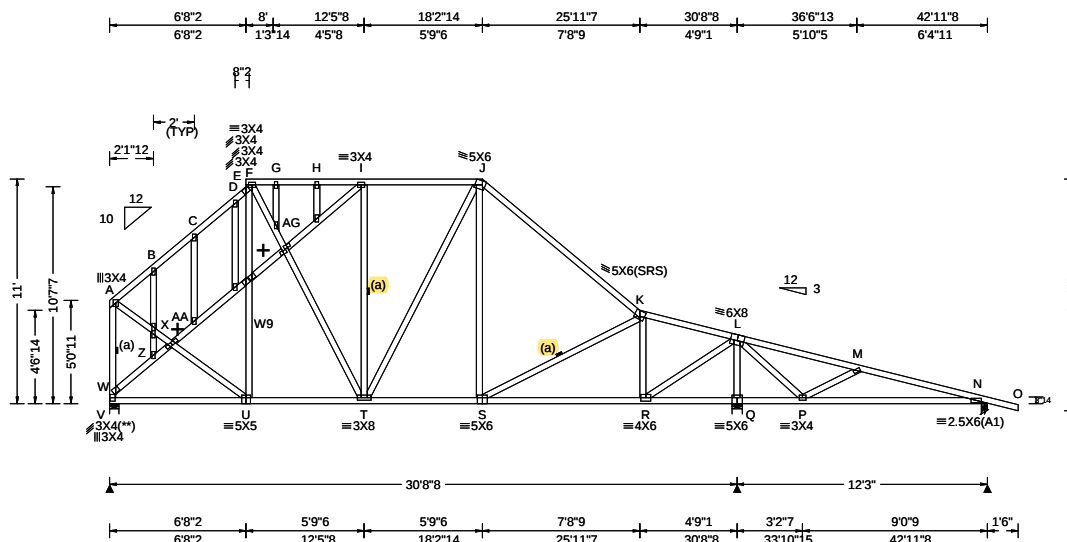


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01/26/2021

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

ALPINE
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514 Earth City Expressway
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Earth City, Missouri 63045

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A02	Ply: 1 Qty: 1	SEQN: 335958 / T43 / SPEC FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45703 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.47 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.052 H 999 240 VERT(TL): 0.100 H 999 180 HORZ(LL): 0.048 C - - HORZ(TL): 0.093 C - - Creep Factor: 2.0 Max TC CSI: 0.755 Max BC CSI: 0.529 Max Web CSI: 0.984 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL V 1383 -/- /- /680 -/- /293 Q 2147 -/- /- /1117 -/- /- N 442 -/- /- /218 /101 -/- Non-Gravity Wind reactions based on MWFRS V Brg Width = 5.5 Min Req = 1.6 Q Brg Width = 6.0 Min Req = 2.5 N Brg Width = 3.5 Min Req = 1.5 Bearings V, Q, & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 W9 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

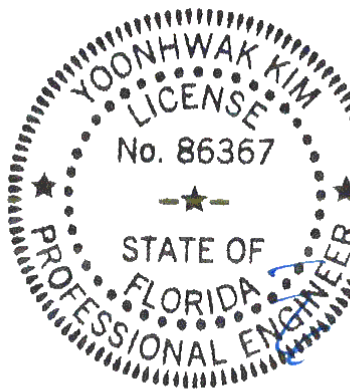
Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Additional Notes
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.

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.
+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

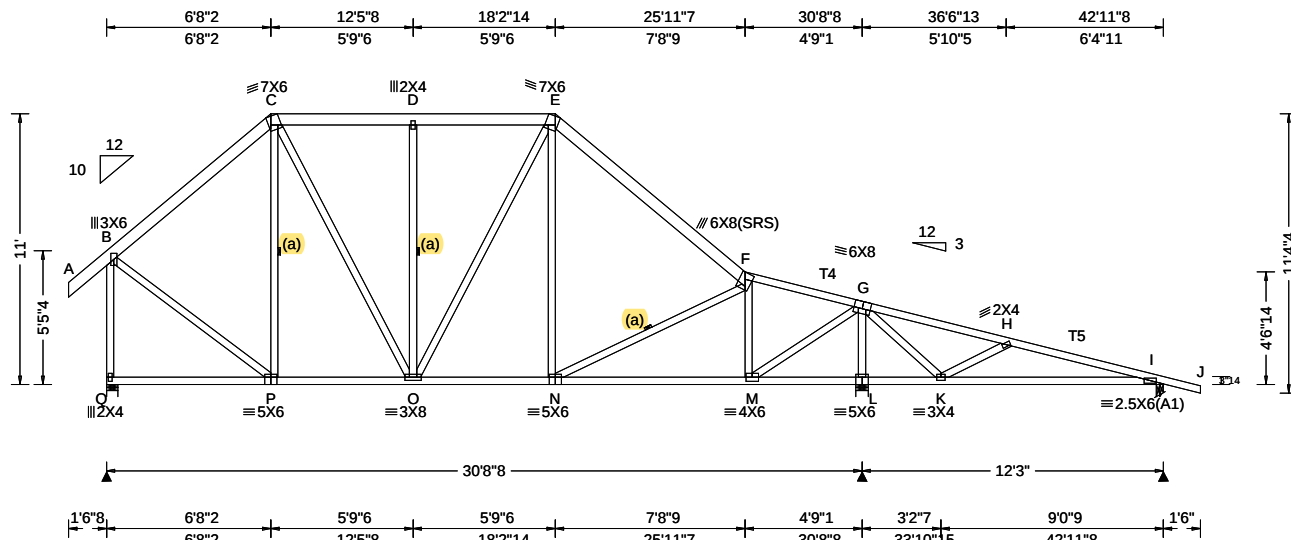
Chords	Tens.Comp.	Chords	Tens. Comp.
V - U	384 -118	S - R	1032 0
U - T	822 0	R - Q	63 -778
T - S	946 0	Q - P	63 -754

Maximum Web Forces Per Ply (lbs)	Webs	Tens.Comp.	Webs	Tens. Comp.
A - W	0	-1036	E - F	94 -437
A - X	804	0	E - AG	420 -90
V - W	12	-1328	K - R	53 -979
W - Z	47	-459	R - L	1951 0
X - AA	748	0	Q - L	2 -2109
Z - AA	46	-404	L - P	654 0
AA - U	600	-1	P - M	139 -570

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A03	Ply: 1 Qty: 11	SEQN: 335952 / T37 / SPEC FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45532 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.47 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.041 N 999 240 VERT(TL): 0.077 K 999 180 HORZ(LL): 0.015 M - - HORZ(TL): 0.031 M - - Creep Factor: 2.0 Max TC CSI: 0.560 Max BC CSI: 0.541 Max Web CSI: 0.764 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1538 -/- /771 -/- /341 L 2147 -/- /1098 -/- /- I 450 -/- /226 /106 -/- Non-Gravity Wind reactions based on MWFRS Q Brg Width = 5.5 Min Req = 1.8 L Brg Width = 6.0 Min Req = 2.5 I Brg Width = 3.5 Min Req = 1.5 Bearings Q, L, & 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.

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x6 SP 2400f-2.0E T4,T5 2x4 SP #2;
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

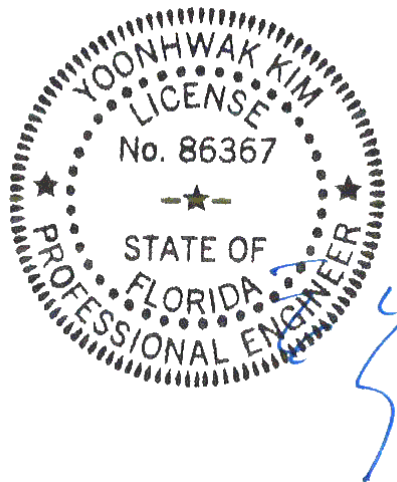
Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical not exposed to wind pressure.
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 11'-0".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

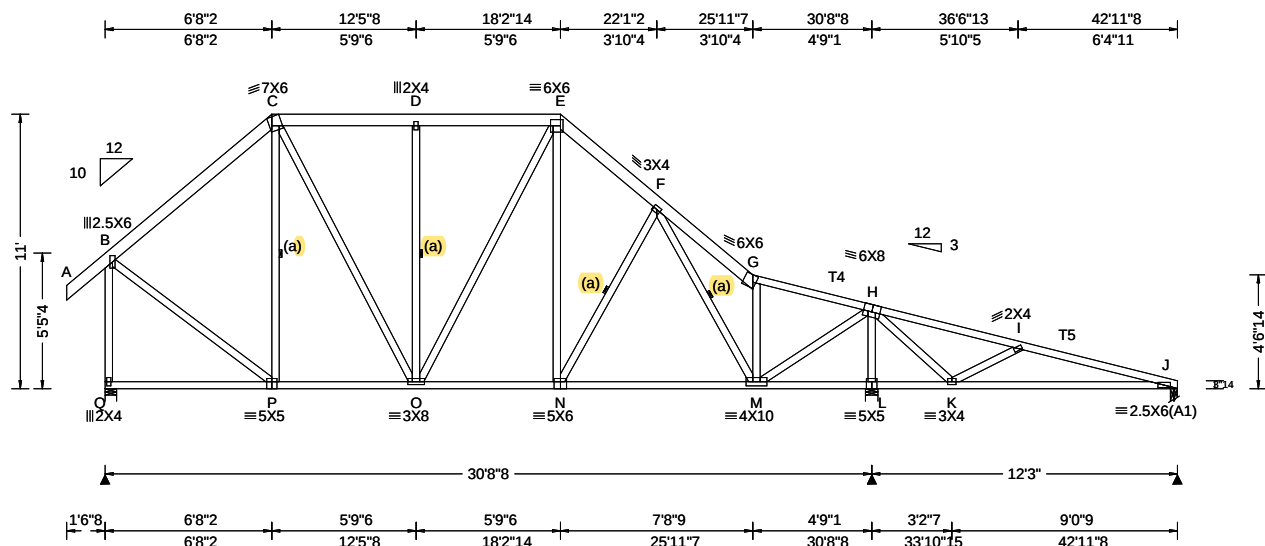
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	746	-2	M - L 36 - 709
O - N	994	0	L - K 37 - 684
N - M	1085	0	K - I 394 - 78

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
B - Q	0 - 1489	M - G	1925 0
B - P	931 0	L - G	0 - 2108
C - O	554 - 10	G - K	650 0
F - M	0 - 965	K - H	140 - 565

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A04	Ply: 1 Qty: 1	SEQN: 335908 / T28 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45406 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.66 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.30 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.039 K 999 240 VERT(TL): 0.079 K 999 180 HORZ(LL): 0.012 M - - HORZ(TL): 0.025 M - - Creep Factor: 2.0 Max TC CSI: 0.627 Max BC CSI: 0.541 Max Web CSI: 0.666 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Q 1341 -/- /767 /53 /332 L 2017 -/- /1104 /70 -/- J 356 -/- /164 /32 -/- Wind reactions based on MWFRS Q Brg Width = 5.5 Min Req = 1.6 L Brg Width = 6.0 Min Req = 2.4 J Brg Width = 3.5 Min Req = 1.5 Bearings Q, L, & 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.

Lumber

Value Set: 13B (Effective 6/1/2013)
Top chord 2x6 SP 2400f-2.0E T4,T5 2x4 SP #2;
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

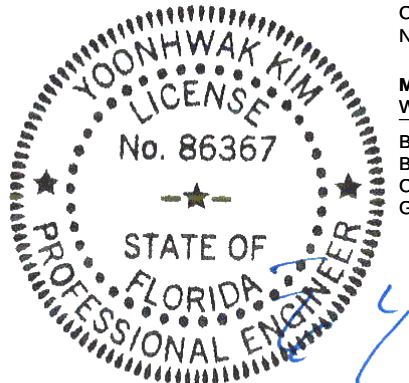
Wind loads based on MWFRS with additional C&C member design.

Left end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

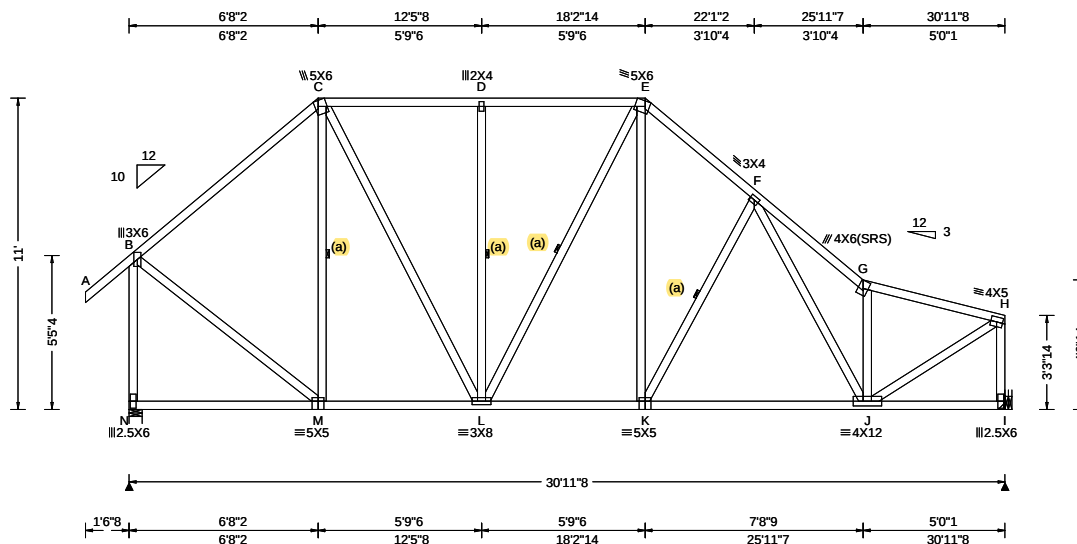
Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	618 -11	M - L	77 -691
O - N	817 0	L - K	76 -668
N - M	916 0	K - J	467 -68

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
B - Q	80 -1287	M - H	1748 -44
B - P	771 -41	L - H	83 -1985
C - O	447 -144	H - K	677 -5
G - M	103 -812	K - I	144 -580

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 17.16 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.10 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	PP Deflection in loc L/defl L/# VERT(LL): 0.070 K 999 240 VERT(TL): 0.126 K 999 180 HORZ(LL): 0.024 C - - HORZ(TL): 0.044 C - - Creep Factor: 2.0 Max TC CSI: 0.687 Max BC CSI: 0.782 Max Web CSI: 0.865	Gravity Non-Gravity Loc R+ /R- / Rh / Rw / U / RL N 1608 /- /- /796 /281 /269 I 1490 /- /- /708 /247 /- Wind reactions based on MWFRS N Brg Width = 5.5 Min Req = 1.9 I Brg Width = - Min Req = - Bearing N 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.
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "		Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 20.02.01A.1209.11	B - C 283 - 1147 E - F 404 - 1548

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved
1/30/2013 by ALSC

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

Hangers / Ties

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 $x=30'8''8$ uses the following support conditions: $30'8''8$

Bearing I (30'8"8, 10') 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.
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind

Wind loads based on MMFRS with additional C&G member design.

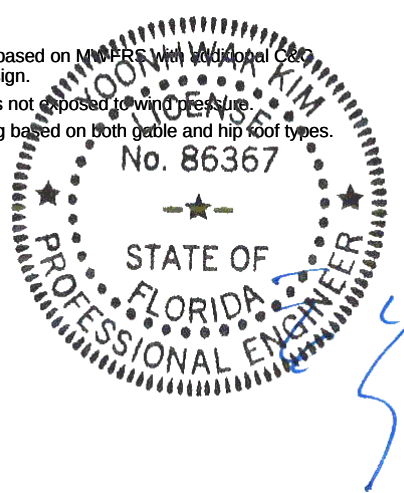
End verticals not exposed to wind pressure.

Wind loading based on both cable and hip roof types.

▲ Maximum Reactions (lbs)							
Gravity				Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
N	1608	/-	/-	/796	/281	/269	
I	1490		/-	/708	/247	/-	
Wind reactions based on MWFRS							
N	Brg Width = 5.5			Min Req = 1.9			
I	Brg Width = -			Min Req = -			
Bearing N 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	283	- 1147		E - F	404	- 1548	
C - D	359	- 1097		F - G	460	- 2134	
D - E	359	- 1097		G - H	264	- 1619	

Maximum Bot Chord Forces Per Ply (lbs)					
Chords			Tens. Comp.		
M - L	782	-66	K - J	1323	-173
L - K	1128	-72			

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
B - N	308	- 1560	F - J	552 - 143
B - M	984	- 80	G - J	341 - 1221
C - L	660	- 143	J - H	1803 - 265
E - K	690	- 118	H - I	261 - 1472
K - F	214	- 414		



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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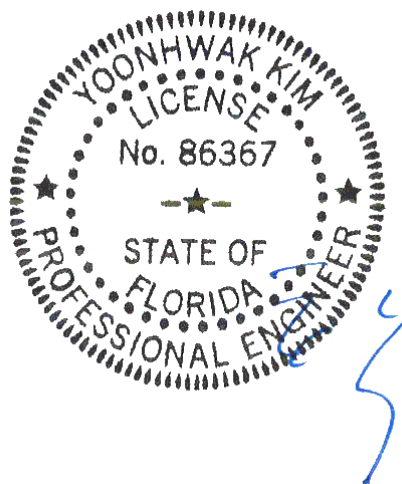
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A05	Ply: 1 Qty: 5	SEQN: 335954 / T42 / COMN FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46094 KD / WHK 01/26/2021
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Additional Notes

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



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

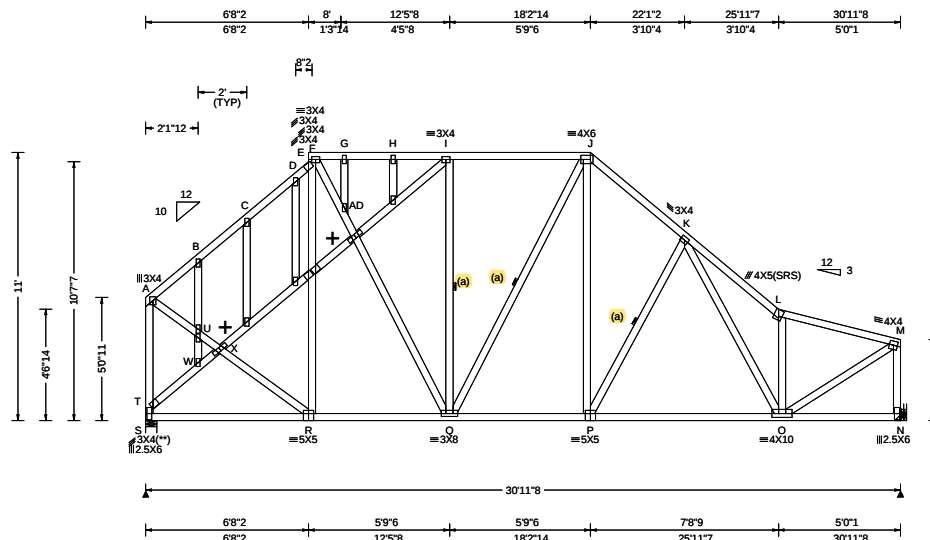
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Orlando FL, 32837



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCCL: 20.00 TCCL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 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 Mean Height: 17.16 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.10 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.050 P 999 240 VERT(TL): 0.104 P 999 180 HORZ(LL): 0.045 C - - HORZ(TL): 0.093 C - - Creep Factor: 2.0 Max BC CSI: 0.391 Max BC CSI: 0.557 Max Web CSI: 0.948 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL S 1292 -/- /- /704 /261 /221 N 1282 -/- /- /713 /239 -/ Wind reactions based on MWFRS S Brg Width = 5.5 Min Req = 1.5 N Brg Width = - Min Req = - Bearing S 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 132 -752 H - I 308 -687 B - C 241 -787 I - J 345 -905 C - D 291 -743 J - K 391 -1276 D - F 343 -719 K - L 448 -1793 E - G 303 -676 L - M 254 -1353 G - H 308 -688

Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x4 SP #2
 Bot chord 2x4 SP #2
 Webs 2x4 SP #3
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

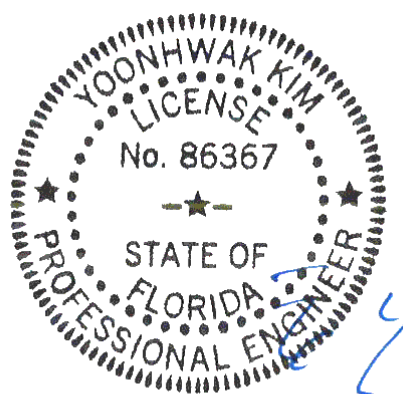
Plating Notes
 All plates are 2X4 except as noted.
 (**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 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 11-0-0.
 + Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



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

R - Q 756 -52 P - O 1098 -164
 Q - P 920 -63

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

A - T 171 -945 E -AD 417 -134
 A - U 730 -118 J - P 507 -118
 S - T 287 -1231 P - K 214 -378
 T - W 175 -451 K - O 470 -143
 U - X 674 -71 L - O 336 -1069
 W - X 138 -396 O - M 1497 -254
 X - R 526 -33 M - N 253 -1246
 E - F 150 -436

FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

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 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A06	Ply: 1 Qty: 1	SEQN: 335941 / T36 / COMN FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45282 KD / WHK 01/26/2021
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Hangers / Ties

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.

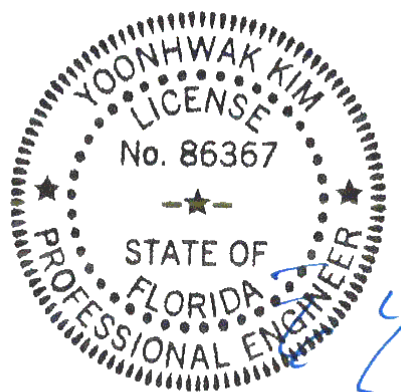
Bearing at location x=30'8"8 uses the following support conditions: 30'8"8

Bearing N (30'8"8, 10') 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.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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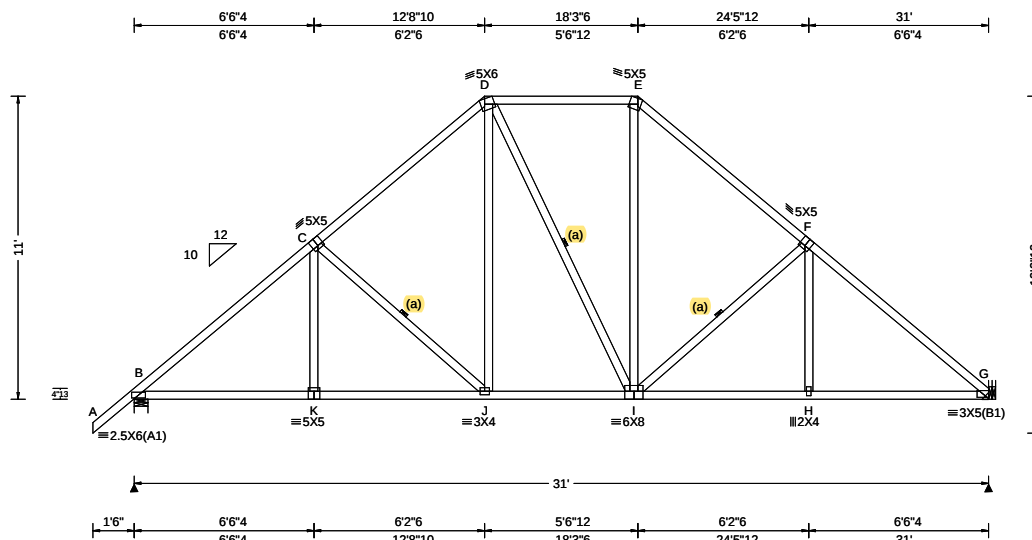
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.10 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.059 J 999 240 VERT(TL): 0.120 J 999 180 HORZ(LL): 0.031 H - - HORZ(TL): 0.063 H - - Creep Factor: 2.0 Max TC CSI: 0.468 Max BC CSI: 0.481 Max Web CSI: 0.211 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1510 -/- /- /904 /133 /368 G 1388 -/- /- /805 /105 -/ Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.8 G Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 152 -1853 E - F 206 -1444 C - D 207 -1460 F - G 157 -1859 D - E 221 -1009

Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x4 SP #2
 Bot chord 2x4 SP #2
 Webs 2x4 SP #3
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

Hangers / Ties
 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=30'9" uses the following support conditions: 30'9"
 Bearing G (30'9", 10') 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.

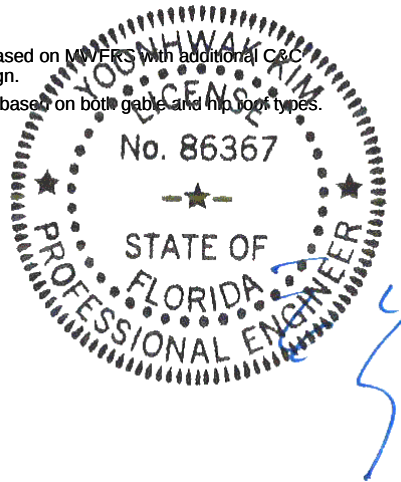
Loading
 Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.
 Bottom chord checked for 10.00 psf non-concurrent live load.

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

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - K 1319	-71	I - H 1329	-10
K - J 1318	-71	H - G 1330	-9
J - I 1016	0		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - J 228	-407	I - E 465	-95
D - J 484	-94	I - F 235	-435



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

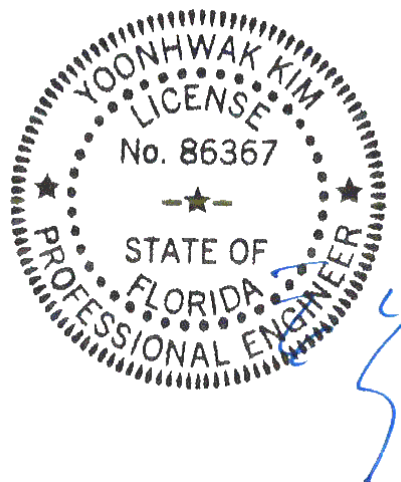
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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 For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCEA: www.sbceaindust.com; ICC: www.iccsafe.org

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A07	Ply: 1 Qty: 2	SEQN: 335932 / T35 / COMN FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45547 KD / WHK 01/26/2021
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Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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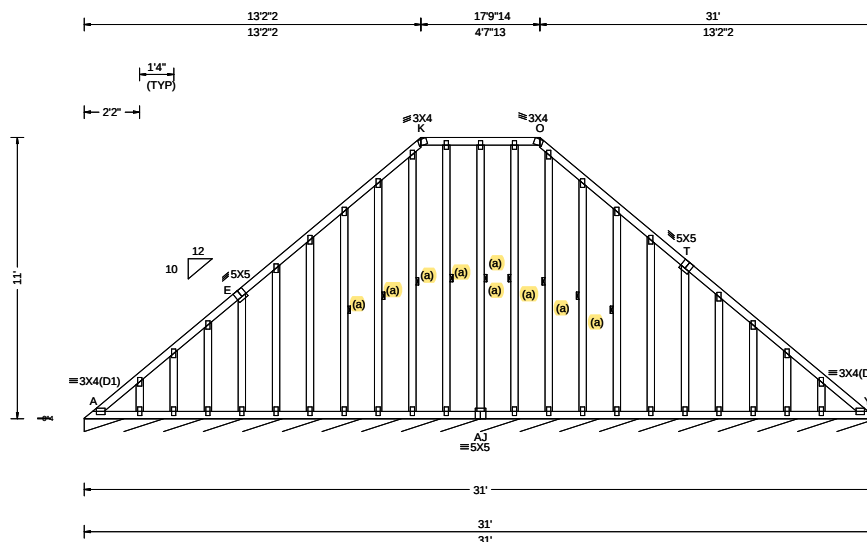
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Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: A08	Ply: 1 Qty: 1	SEQN: 335937 / T10 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45875 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.65 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 K 999 240 VERT(TL): 0.004 K 999 180 HORZ(LL): -0.005 F - - HORZ(TL): 0.007 I - - Creep Factor: 2.0 Max TC CSI: 0.081 Max BC CSI: 0.055 Max Web CSI: 0.086 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Y* 86 /- /- /47 /13 /10 Wind reactions based on MWFRS Y Brg Width = 371 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

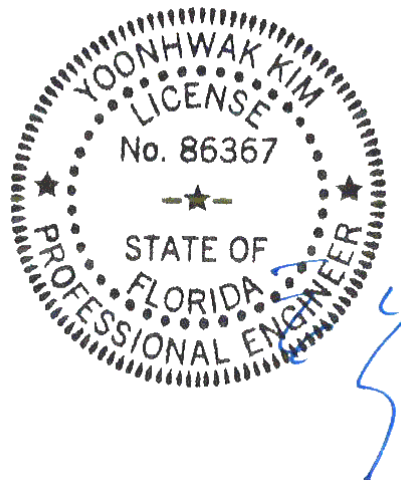
In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
The overall height of this truss excluding overhang is 11-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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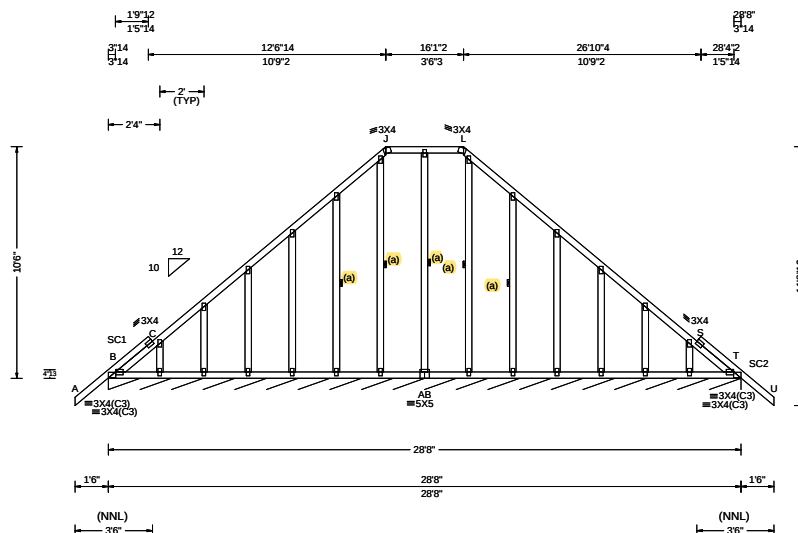
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B01	Ply: 1 Qty: 1	SEQN: 335732 / T5 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45579 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.75 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 L 999 240 VERT(TL): 0.003 L 999 180 HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.195 Max BC CSI: 0.077 Max Web CSI: 0.114 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL T* 93 /- /- /50 /- /4 Wind reactions based on MWFRS T Brg Width = 343 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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;

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Wind loading based on both gable and hip roof types.

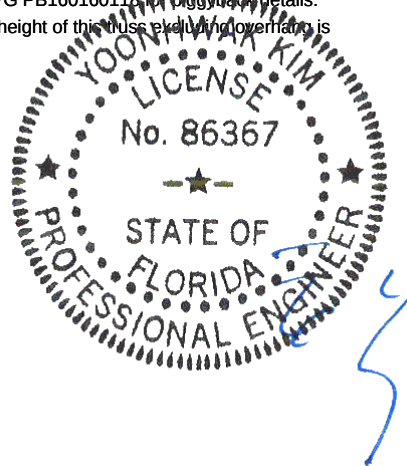
Additional Notes

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

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

Refer to DWG PB160160118 for gable end details.

The overall height of this truss excluding overhang is 10-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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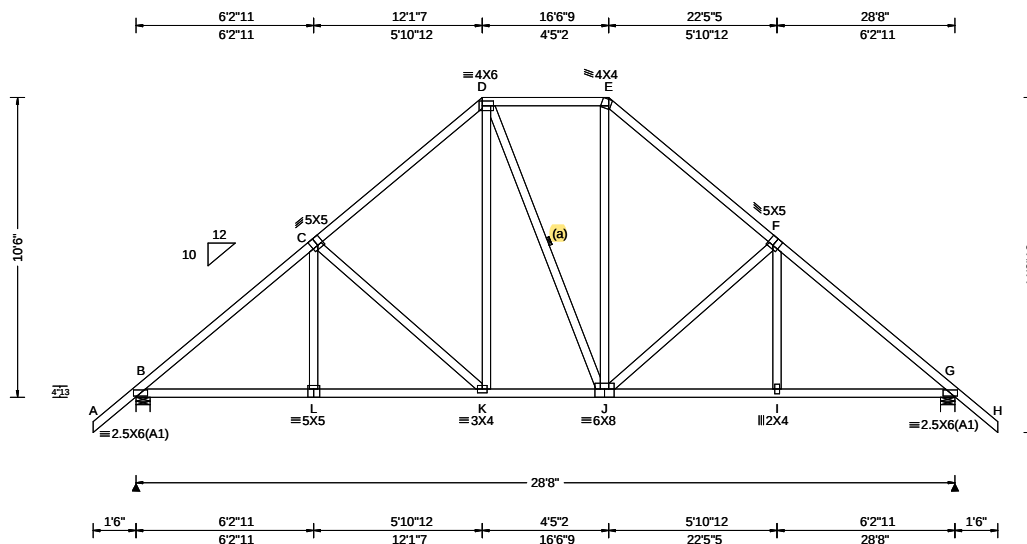
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Job Number: 20-4966	Ply: 1	SEQN: 335730 / T31 / COMN	Cust: R215	JRef: 1X2e2150002
Dale and Karla Nickelson Res	Qty: 4	FROM: CDM	DrwNo: 026.21.1006.45485	
Truss Label: B02			KD / WHK	01/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.051 K 999 240 VERT(TL): 0.103 K 999 180 HORZ(LL): 0.027 I - - HORZ(TL): 0.055 I - - Creep Factor: 2.0 Max TC CSI: 0.421 Max BC CSI: 0.425 Max Web CSI: 0.484 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1389 - / - / /830 /205 /372 G 1384 - / - / /830 /205 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.6 G Brg Width = 6.0 Min Req = 1.6 Bearings B & G 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 266 -1678 E - F 322 -1287 C - D 324 -1300 F - G 266 -1672 D - E 309 -893

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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.
Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

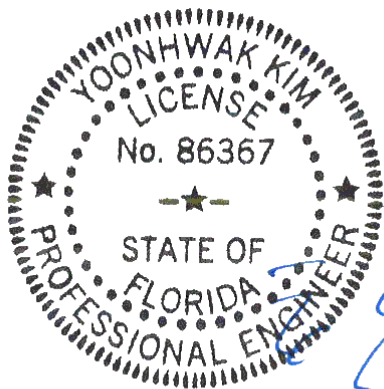
Wind loads based on MWFRS with additional C&C member design.

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'-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - L	1190 -155	J - I	1184 -62
L - K	1189 -156	I - G	1185 -61
K - J	897 -70		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	195 -394	J - E	412 -78
D - K	433 -80	J - F	194 -396

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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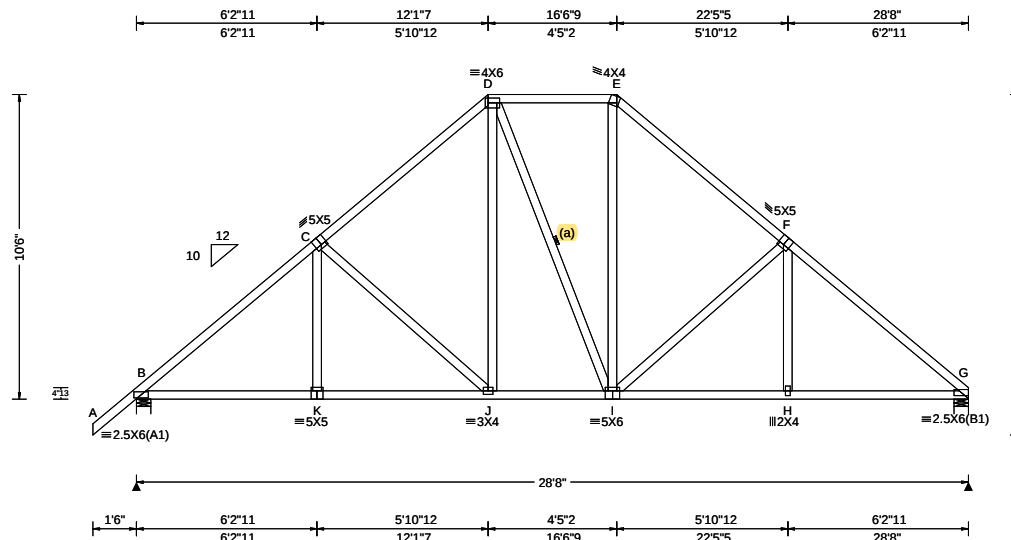
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Orlando FL, 32837

Job Number: 20-4966	Ply: 1	SEQN: 335735 / T4 / COMN	Cust: R215	JRef: 1X2e2150002
Dale and Karla Nickelson Res	Qty: 6	FROM: CDM	DrwNo: 026.21.1006.46032	
Truss Label: B03			KD / WHK	01/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.050 J 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.102 J 999 180	B 1393 -/- /- /830 /206 /348
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.026 H - -	G 1274 -/- /- /732 /180 -/-
Des Ld: 40.00	EXP: C		HORZ(TL): 0.053 H - -	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B Brg Width = 6.0 Min Req = 1.6
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.421	G Brg Width = 6.0 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.436	Bearings B & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.507	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft			Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			B - C 268 -1683 E - F 325 -1294
	Wind Duration: 1.60			C - D 326 -1306 F - G 272 -1689
				D - E 310 -897

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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.

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

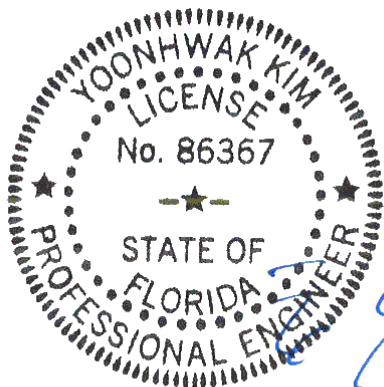
Wind loads based on MWFRS with additional C&C member design.

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'-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	1194 -107	I - H	1203 -104
K - J	1193 -107	H - G	1204 -104
J - I	901 -21		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - J	194 -394	I - E	420 -81
D - J	434 -80	I - F	200 -415

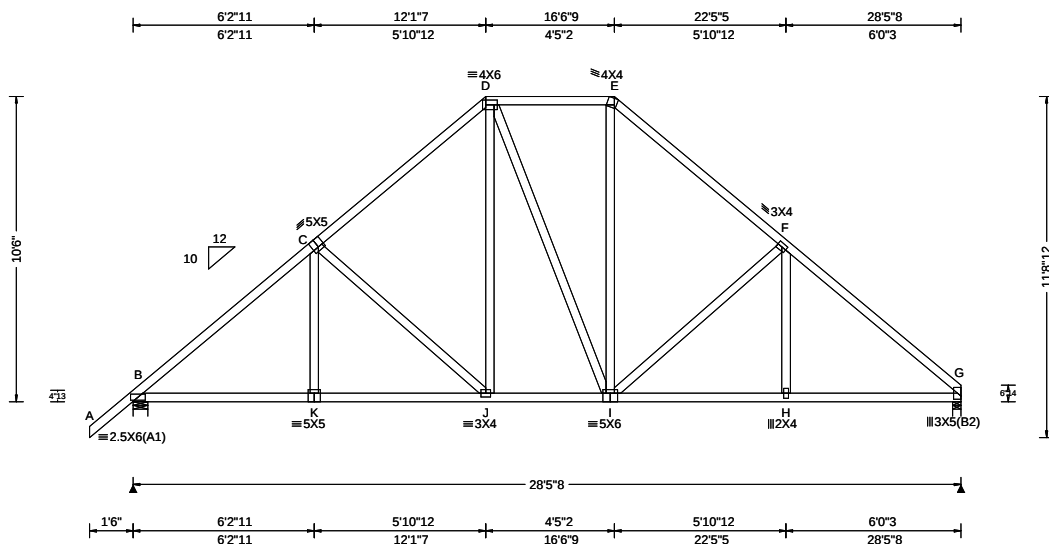
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Job Number: 20-4966	Ply: 1	SEQN: 335738 / T6 / COMN	Cust: R215	JRef: 1X2e2150002
Dale and Karla Nickelson Res	Qty: 1	FROM: CDM	DrwNo: 026.21.1006.45593	
Truss Label: B04			KD / WHK	01/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.75 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.047 J 999 240 VERT(TL): 0.100 J 999 180 HORZ(LL): 0.027 H - - HORZ(TL): 0.058 H - - Creep Factor: 2.0 Max TC CSI: 0.418 Max BC CSI: 0.454 Max Web CSI: 0.489 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1338 -/- /- /832 -/- /348 G 1217 -/- /- /727 -/- /- Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.6 G Brg Width = 3.5 Min Req = 1.5 Bearings B & G 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 14 -1603 E - F 80 -1213 C - D 86 -1219 F - G 8 -1594 D - E 93 -836

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

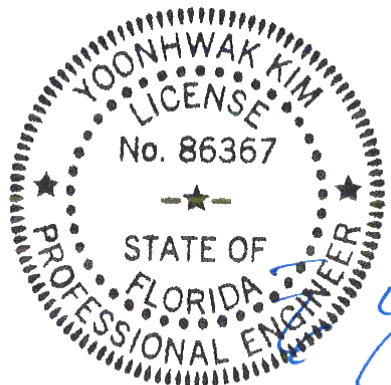
Wind loads based on MWFRS with additional C&C member design.

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'-6"-0.

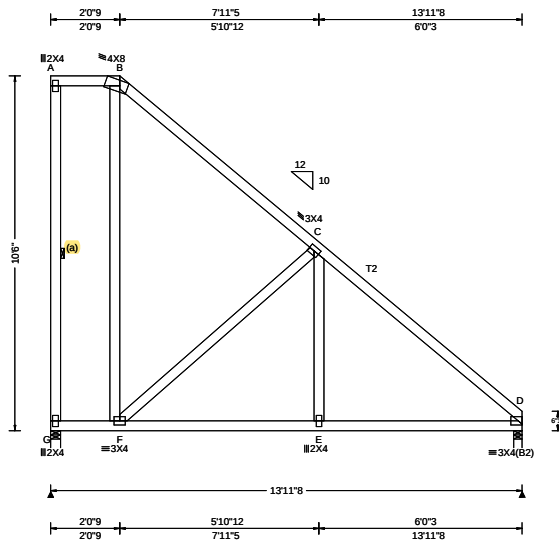


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: B05	Ply: 1 Qty: 3	SEQN: 335810 / T32 / MONO FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46171 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.39 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.259 F 644 240 VERT(TL): 0.557 F 299 180 HORZ(LL): -0.213 B - - HORZ(TL): 0.459 B - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.560 Max Web CSI: 0.810 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 598 /- /- /475 /83 /259 D 603 /- /- /377 /- /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 D Brg Width = 3.0 Min Req = 1.5 Bearings G & D are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. C - D 0 -748

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2 T2 2x4 SP M-31;
Bot chord 2x4 SP M-31
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

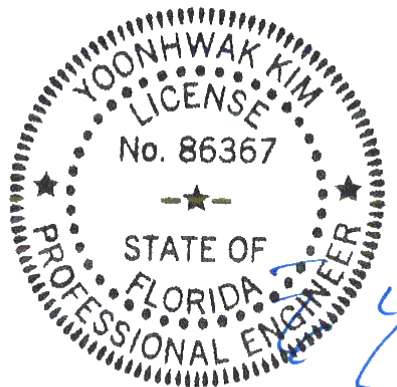
Left end vertical not exposed to wind pressure.

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 10-6-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
F - E	492	E - D	495

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - C	170	C - E	402

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

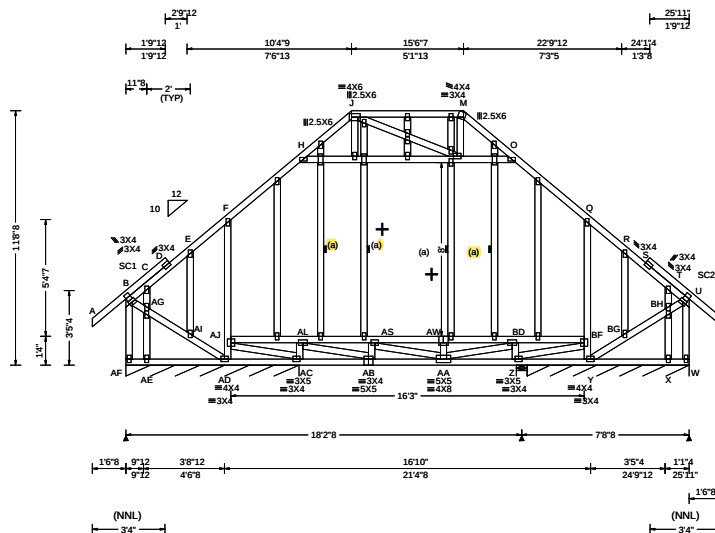
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.67 ft TCCL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2003 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.039 K 999 240 VERT(TL): 0.074 K 999 180 HORZ(LL): 0.014 Q - - HORZ(TL): 0.026 Q - - Creep Factor: 2.0 Max BC CSI: 0.611 Max BC CSI: 0.332 Max Web CSI: 0.406 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AF* 296 -/- /- /96 -/- /24 Z 1276 -/- /- /299 -/- /- W* 143 -/- /- /64 /5 -/- Wind reactions based on MWFRS AF Brg Width = 95.5 Min Req = - Z Brg Width = 6.0 Min Req = 1.5 W Brg Width = 89.5 Min Req = - Bearings AF, Z, & Z are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Value Set: 13B (Effective 6/1/2013)
 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;
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

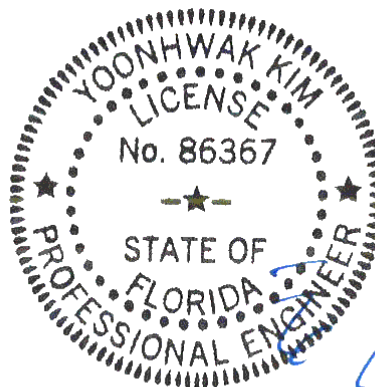
Plating Notes
 All plates are 2X4 except as noted.

Loading
 Bottom chord checked for 10.00 psf non-concurrent live load.
 Attic room loading from 4-10-0 to 21-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins
 In lieu of structural panels use purlins to brace TC @ 24" oc.
 Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	94 -510	M - O	0 -555
C - D	82 -554	O - Q	15 -629
D - E	1 -539	Q - R	0 -523
E - F	11 -527	R - S	0 -536
F - H	33 -633	S - T	60 -551
H - J	0 -546	T - U	72 -521
J - M	0 -429		

Chords	Tens.Comp.	Chords	Tens. Comp.
AD-AC	387 -54	Z - Y	389 -51
AB-AA	1115 0		

Webs	Tens.Comp.	Webs	Tens. Comp.
B - AF	2 -743	AA-BD	1025 0
B - AG	464 -81	AW-BD	0 -698
AG-AI	484 -78	BD-Z	0 -1065
AI-AD	466 -81	BD-BF	569 0
AJ-AC	0 -618	Z -BF	0 -561
AJ-AL	625 0	Y -BG	472 -62
AC-AL	0 -1079	BG-BH	481 -58
AL-AB	1012 0	BH - U	469 -61
AL-AS	0 -629	U - W	0 -739
AS-AW	0 -698		

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 Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C01	Ply: 1 Qty: 1	SEQN: 335832 / T16 / GABL FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45656 KD / WHK 01/26/2021
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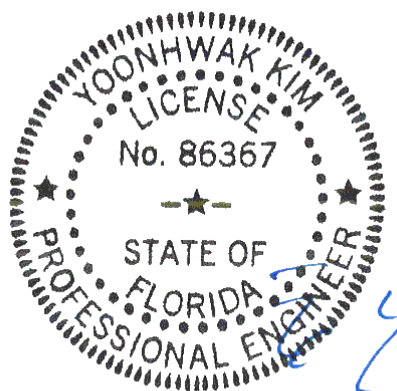
Additional Notes

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

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 11-8-8.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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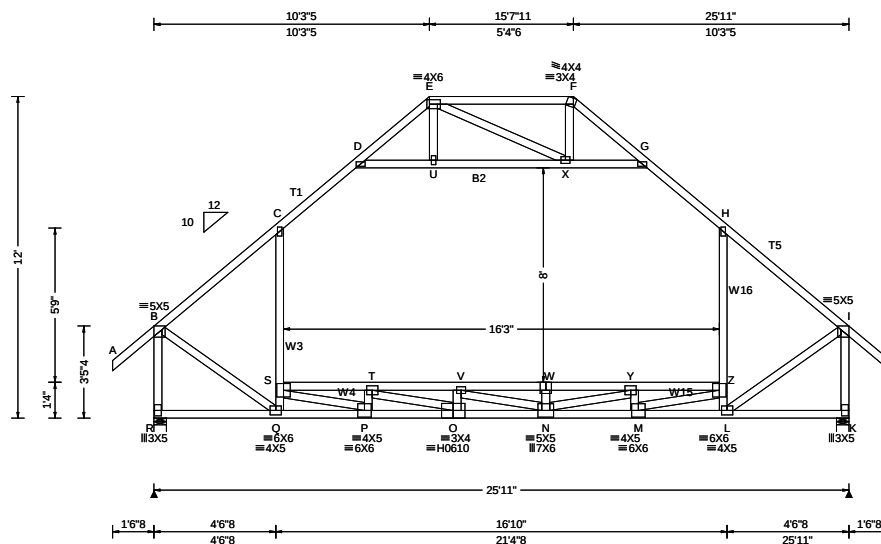
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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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.sbcindustry.com; ICC: www.iccsafe.org

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AN ITW COMPANY
2400 Lake Orange Dr.
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Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C02	Ply: 1 Qty: 4	SEQN: 335817 / T34 / ATIC FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45718 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C 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: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.463 E 671 240 VERT(TL): 0.933 F 333 180 HORZ(LL): 0.453 C - - HORZ(TL): 0.994 C - - Creep Factor: 2.0 Max TC CSI: 0.756 Max BC CSI: 0.646 Max Web CSI: 0.903 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL R 2351 - / - / /721 /222 /332 K 2351 - / - / /721 /222 - Non-Gravity Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 1.9 K Brg Width = 5.5 Min Req = 1.9 Bearings R & 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 213 -1834 F - G 167 -435 C - D 325 -1441 G - H 325 -1441 D - E 170 -448 H - I 213 -1834

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T1,T5 2x4 SP M-31;
Bot chord 2x4 SP M-31 B2 2x4 SP #2;
Webs 2x4 SP #3 W3,W4,W15,W16 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

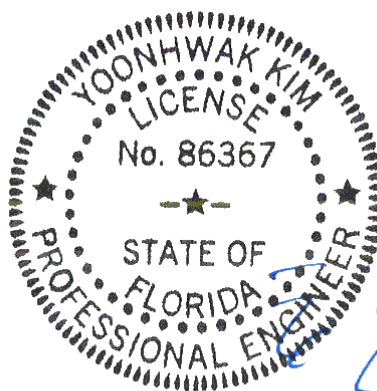
Plating Notes
All plates are 2X4 except as noted.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.
Attic room loading from 4-10-0 to 21-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals 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 12-0-0.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1363 -482	N - M	4119 0
P - O	4115 -320	M - L	1363 -155
O - N	5180 0		

Maximum Web Forces Per Ply (lbs)

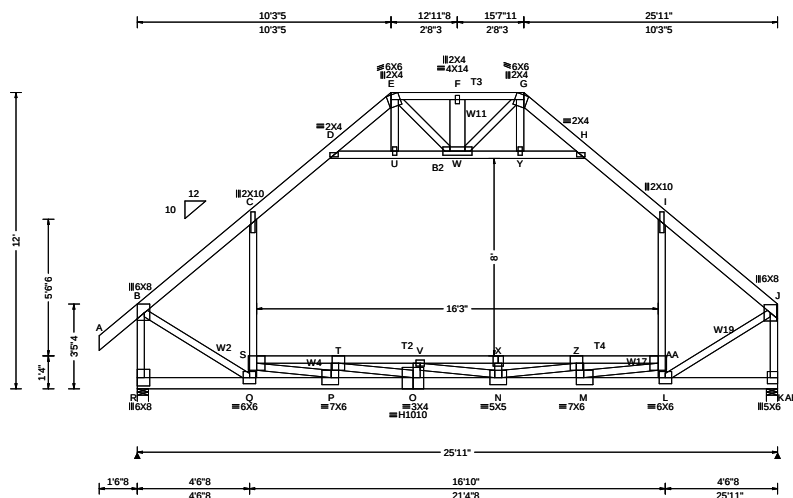
Webs	Tens.Comp.	Webs	Tens. Comp.
B - R	232 -2311	V - W	0 -3963
B - Q	1500 -61	N - Y	1350 -224
Q - S	124 -658	W - Y	0 -3963
C - S	501 -71	X - G	242 -1140
S - P	2686 0	Y - M	110 -733
S - T	271 -2857	Y - Z	281 -2862
D - U	239 -1129	M - Z	2690 0
P - T	110 -740	Z - H	500 -71
T - O	1306 -214	Z - L	125 -660
T - V	0 -3921	L - I	1500 -62
U - X	238 -1118	I - K	232 -2311

FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCCL: 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2003 TPI Std: 2014 Rep Factors Used: Varies by FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.471 G 660 240 VERT(TL): 0.930 G 334 180 HORZ(LL): 0.186 C - - HORZ(TL): 0.367 C - - Creep Factor: 2.0 Max BC CSI: 0.660 Max CB CSI: 0.731 Max AB CSI: 0.976 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL R 7757 /- /- /- /566 /55 AB 7755 /- /- /- /494 /- Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 3.2 AB Brg Width = 5.5 Min Req = 3.2 Bearings R & AB 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 244 -3237 F - G 498 -1419 C - D 302 -2492 G - H 366 -1123 D - E 367 -1122 H - I 302 -2490 E - F 498 -1419 I - J 232 -3236

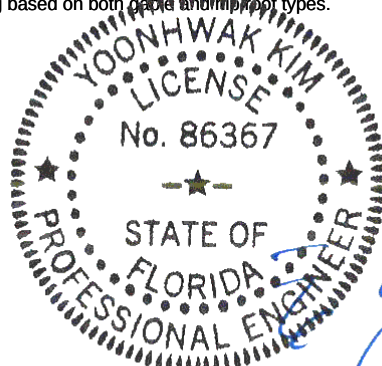
Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x6 SP 2400f-2.0E T2,T4 2x4 SP M-31;
 T3 2x4 SP #2;
 Bot chord 2x6 SP 2400f-2.0E B2 2x4 SP #2;
 Webs 2x4 SP #3 W2,W4,W17,W19 2x4 SP #2;
 W11 2x8 SP 2400f-2.0E;
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
 Nail Schedule: 0.131"x3", min. nails
 Top Chord: 1 Row @ 7.50" o.c.
 Bot Chord: 1 Row @ 5.00" o.c.
 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 66 plf at -1.54 to 66 plf at 25.92
 PLT: From 26 plf at 4.83 to 26 plf at 7.79
 PLT: From 20 plf at 7.79 to 20 plf at 18.12
 PLT: From 26 plf at 18.12 to 26 plf at 21.08
 PLT: From 100 plf at 4.83 to 100 plf at 21.08
 BC: From 5 plf at -1.54 to 5 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 25.92
 TC: 3000 lb Conc. Load at 12.96
 BC: 660 lb Conc. Load at 2.15, 4.15, 6.15, 8.15
 10.15, 12.15, 14.15, 16.15, 18.15, 20.15, 22.15, 24.15
 BC: 111 lb Conc. Load at 4.83, 21.08

Plating Notes
 All plates are 7X8 except as noted.

Purlins
 In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
 Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.
Wind
 Wind loads and reactions based on MWFRS.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)	Maximum Web Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.	Webs Tens.Comp. Webs Tens. Comp.
Q - P 2205 -178 N - M 6643 -85 P - O 6587 -97 M - L 2219 -174 O - N 9029 -65	B - R 291 -3822 F - W 352 -1517 B - Q 2705 -206 W - Y 0 -1748 C - S 1028 0 W - G 1137 -263 S - P 4268 0 N - Z 2449 0 S - T 0 -4055 X - Z 0 -6685 D - U 0 -1768 Y - H 0 -1766 P - T 0 -814 Z - M 0 -766 T - O 2517 0 Z - AA 0 -4125 T - V 0 -6684 M - AA 4325 0 E - W 1141 -262 AA - I 1027 0 U - W 0 -1751 L - J 2706 -221 V - X 0 -6685 J - K 258 -3765

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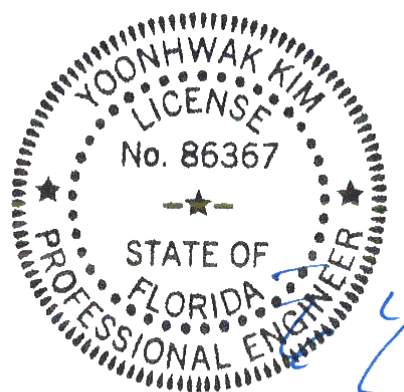
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 AN ITW COMPANY
 2400 Lake Orange Dr.
 Suite 150
 Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C03	Ply: 2 Qty: 1	SEQN: 335839 / T46 / ATIC FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45907 KD / WHK 01/26/2021
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Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO VERIFY AND APPROVE THE LOADING. THE ENGINEERING SEAL ON THIS DESIGN IS ONLY VALID IF THE BUILDING DESIGNER APPROVES THAT THIS DESIGN MEETS SECTION 1601.2.2 OF THE 2001 FLORIDA BUILDING CODE: "THE STRUCTURAL SYSTEM SHALL BE ABLE TO SUSTAIN LOCAL DAMAGE OR FAILURE WITH THE OVERALL STRUCTURE REMAINING STABLE."



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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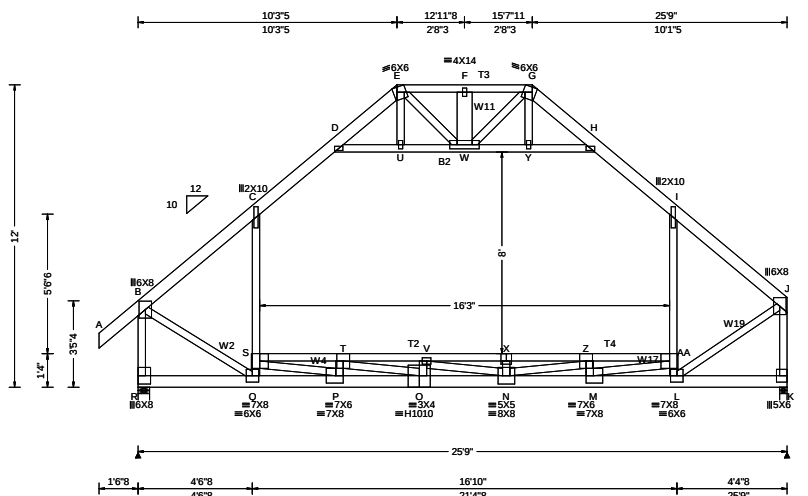
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 ft TCCL: 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2003 TPI Std: 2014 Rep Factors Used: Varies by FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.464 E 666 240 VERT(TL): 0.916 E 337 180 HORZ(LL): 0.210 C - - HORZ(TL): 0.415 C - - Creep Factor: 2.0 Rest TC CSI: 0.624 Max BC CSI: 0.729 Max Web CSI: 0.975 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL R 7707 /- /- /- /562 /55 K 7791 /- /- /- /495 /- Wind reactions based on MWFRS R Brg Width = 5.5 Min Req = 3.2 K Brg Width = 3.5 Min Req = 3.2 Bearings R & 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 241 -3194 F - G 499 -1440 C - D 300 -2458 G - H 367 -1135 D - E 367 -1138 H - I 301 -2465 E - F 499 -1440 I - J 226 -3169

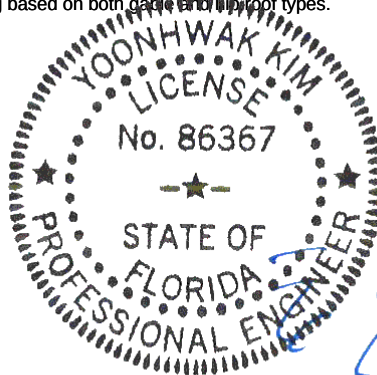
Lumber
 Value Set: 13B (Effective 6/1/2013)
 Top chord 2x6 SP 2400f-2.0E T2,T4 2x4 SP M-31;
 T3 2x4 SP #2;
 Bot chord 2x6 SP 2400f-2.0E B2 2x4 SP #2;
 Webs 2x4 SP #3 W2,W4,W17,W19 2x4 SP #2;
 W11 2x8 SP 2400f-2.0E;
 Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
 Nail Schedule: 0.131"x3", min. nails
 Top Chord: 1 Row @ 7.50" o.c.
 Bot Chord: 1 Row @ 4.75" o.c.
 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 66 plf at -1.54 to 66 plf at 25.75
 PLT: From 26 plf at 4.83 to 26 plf at 7.79
 PLT: From 20 plf at 7.79 to 20 plf at 18.12
 PLT: From 26 plf at 18.12 to 26 plf at 21.08
 PLT: From 100 plf at 4.83 to 100 plf at 21.08
 BC: From 5 plf at -1.54 to 5 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 25.75
 TC: 3000 lb Conc. Load at 12.96
 BC: 660 lb Conc. Load at 2.15, 4.15, 6.15, 8.15
 10.15, 12.15, 14.15, 16.15, 18.15, 20.15, 22.15, 24.15
 BC: 111 lb Conc. Load at 4.83, 21.08

Plating Notes
 All plates are 2X4 except as noted.

Purlins
 In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
 Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.
Wind
 Wind loads and reactions based on MWFRS.
 End verticals not exposed to wind pressure.
 Wind loading based on both gable and hip roof types.



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 01/26/2021

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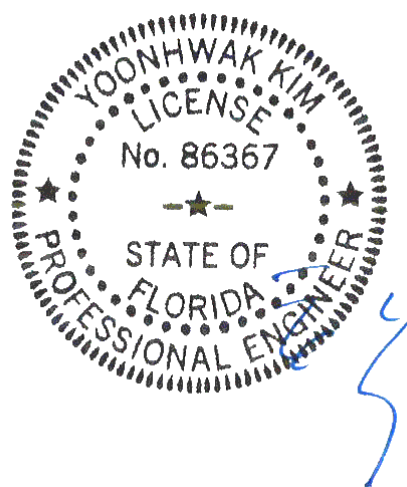
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 Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C04	Ply: 2 Qty: 1	SEQN: 335836 / T22 / ATIC FROM: CDM Page 2 of 2	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45968 KD / WHK 01/26/2021
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Additional Notes

Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

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FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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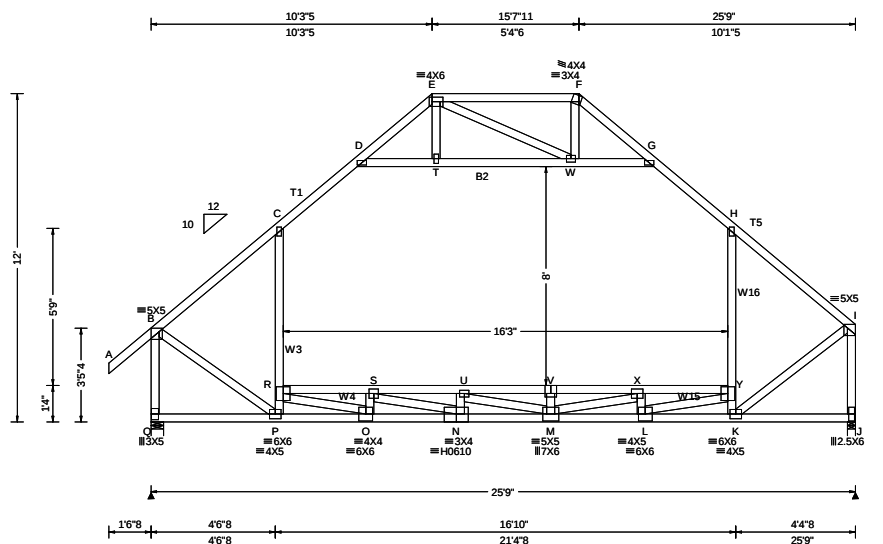
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Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C05	Ply: 1 Qty: 6	SEQN: 335820 / T33 / ATIC FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45329 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.67 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.457 E 675 240 VERT(TL): 0.927 N 333 180 HORZ(LL): 0.483 C - - HORZ(TL): 1.046 C - - Creep Factor: 2.0 Max TC CSI: 0.752 Max BC CSI: 0.644 Max Web CSI: 0.987 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 2339 - / - / /733 /83 /307 J 2237 - / - / /632 /66 - / - Non-Gravity Wind reactions based on MWFRS Q Brg Width = 5.5 Min Req = 1.9 J Brg Width = 3.5 Min Req = 1.9 Bearings Q & 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 91 -1818 F - G 0 -439 C - D 165 -1427 G - H 166 -1430 D - E 0 -455 H - I 82 -1787

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2 T1,T5 2x4 SP M-31;
Bot chord 2x4 SP M-31 B2 2x4 SP #2;
Webs 2x4 SP #3 W3,W4,W15,W16 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

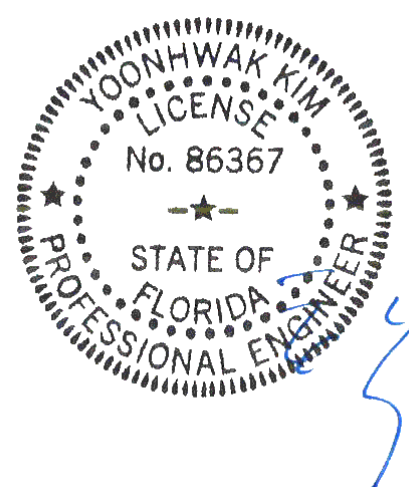
Plating Notes
All plates are 2X4 except as noted.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.
Attic room loading from 4-10-0 to 21-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
Refer to DWG PB160160118 for piggyback details.
The overall height of this truss excluding overhang is 12-0-0.

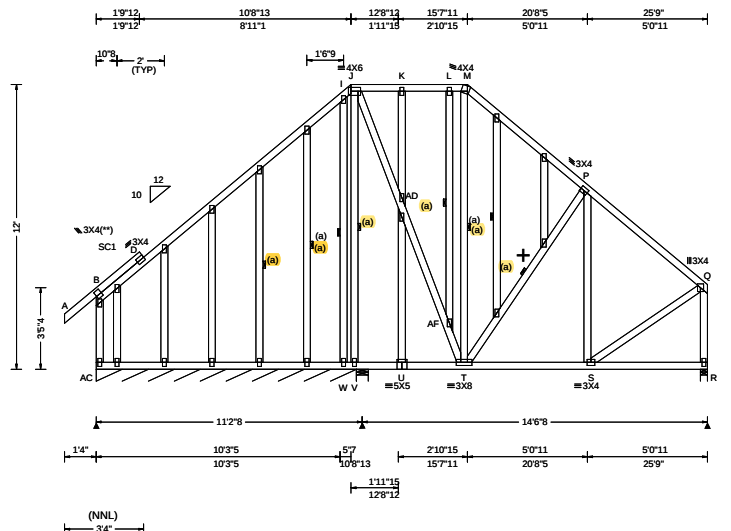


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: C06	Ply: 1 Qty: 1	SEQN: 335829 / T23 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46157 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.021 N 999 240 VERT(TL): 0.044 N 999 180 HORZ(LL): 0.020 N - - HORZ(TL): 0.028 N - - Creep Factor: 2.0 Max TC CSI: 0.352 Max BC CSI: 0.251 Max Web CSI: 0.309 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AC*126 /- /- /76 /0 /25 V 305 /- /- /170 /- /- R 629 /- /- /356 /1 /- Wind reactions based on MWFRS AC Brg Width = 131 Min Req = - V Brg Width = 6.0 Min Req = 1.5 R Brg Width = 3.5 Min Req = 1.5 Bearings AC, V, & R are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. P - Q 39 -486

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Stack Chord: SC1 2x4 SP #2;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

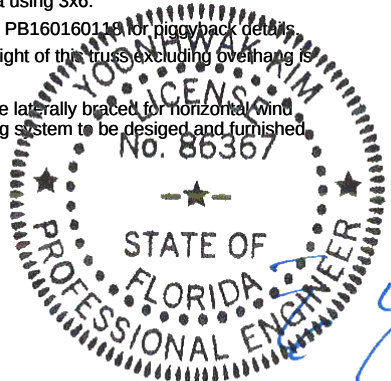
Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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
See DWGS A14030ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.
Refer to DWG PB160160118 for piggy back details.
The overall height of this truss excluding overhang is 12-0-0.
+ Member to be laterally braced for horizontal wind loads. bracing system to be designed and furnished by others.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

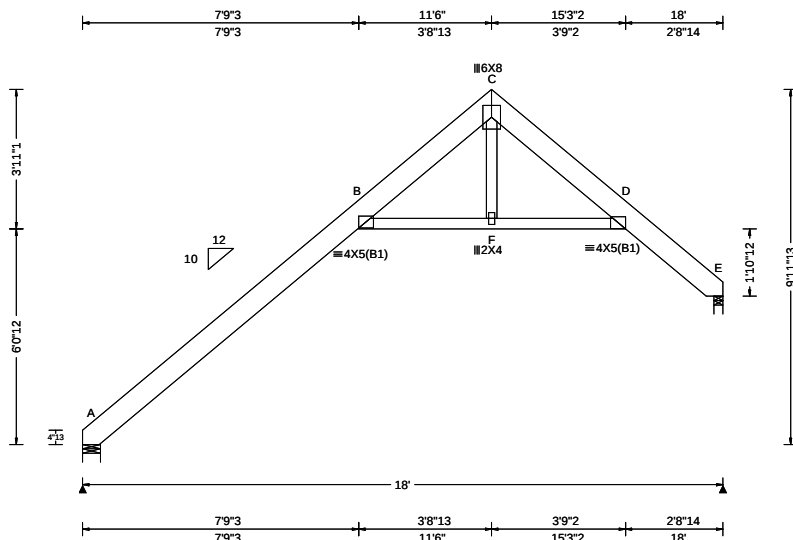
Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.
V - U 539 -390

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
J - V 110 -439 AF- T 478 -145
J - AD 495 -133 Q - R 21 -588
AD-AF 486 -135

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: D01	Ply: 1 Qty: 11	SEQN: 335814 / T30 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45923 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 16.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.53 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.441 F 470 240 VERT(TL): 0.819 F 253 180 HORZ(LL): 0.377 F - - HORZ(TL): 0.701 F - - Creep Factor: 2.0 Max BC CSI: 0.379 Max BC CSI: 0.193 Max Web CSI: 0.026 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 437 /- /- /231 /45 /183 E 455 /- /- /262 /45 /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 6.0 Min Req = 1.5 E Brg Width = 3.0 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. B - C 45 -551 C - D 105 -703

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x8 SP 2400f-2.0E

Bot chord 2x4 SP #2

Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

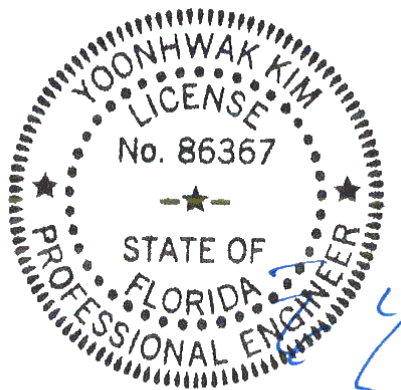
Wind

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 9-11-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

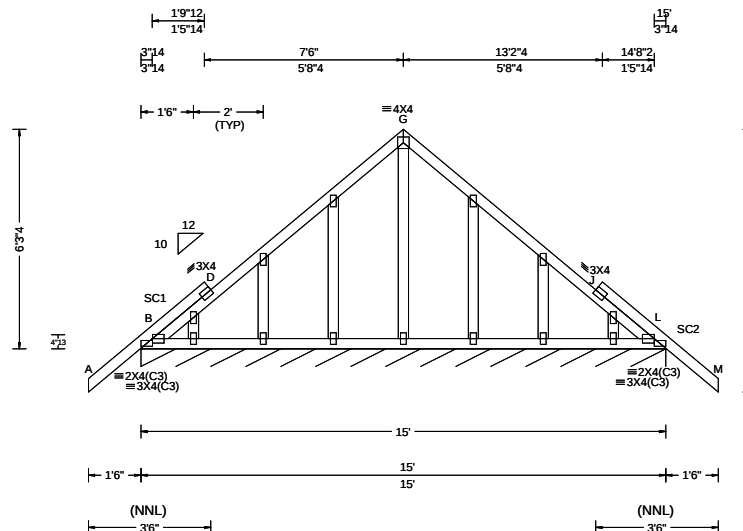
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E01	Ply: 1 Qty: 1	SEQN: 335712 / T2 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46188 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 N 999 240 VERT(TL): 0.002 N 999 180 HORZ(LL): -0.001 T - - HORZ(TL): 0.001 T - - Creep Factor: 2.0 Max TC CSI: 0.197 Max BC CSI: 0.066 Max Web CSI: 0.087 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L* 100 /- /- /54 /- /8 Wind reactions based on MWFRS L Brg Width = 180 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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;

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

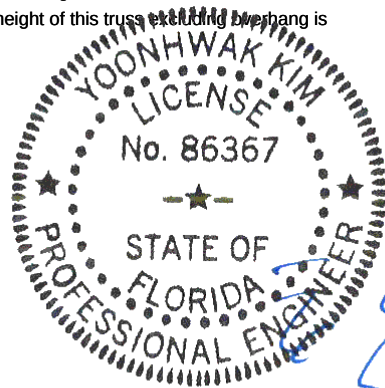
Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS 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 noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

The overall height of this truss including overhang is 6-3-4.



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01/26/2021

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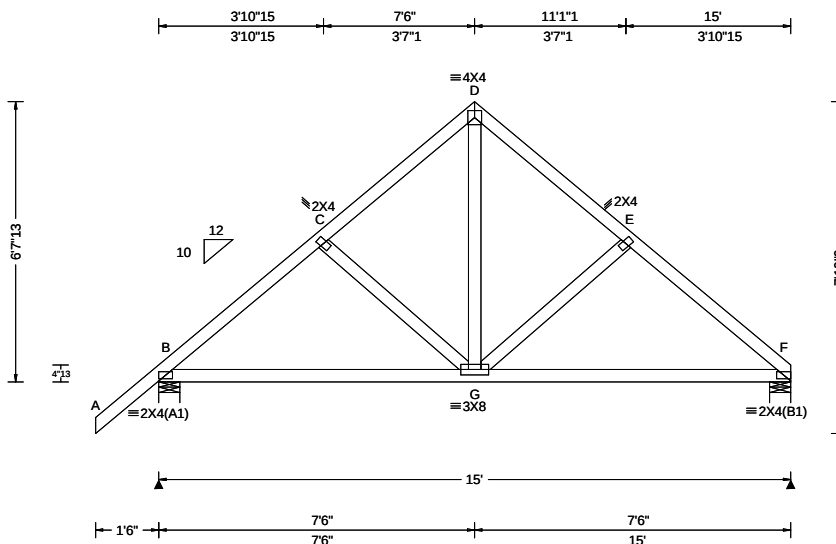
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E02	Ply: 1 Qty: 6	SEQN: 335714 / T1 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46001 KD / WHK 01/26/2021
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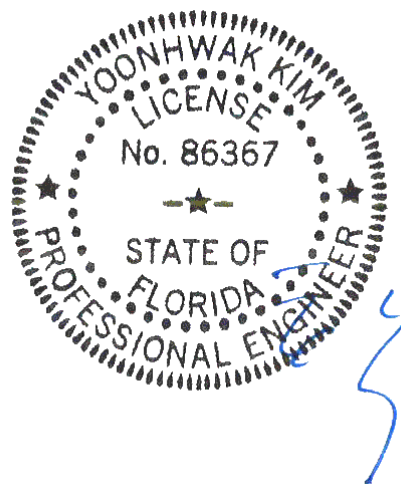
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.012 G 999 240 VERT(TL): 0.026 G 999 180 HORZ(LL): 0.006 G - - HORZ(TL): 0.012 G - - Creep Factor: 2.0 Max TC CSI: 0.194 Max BC CSI: 0.493 Max Web CSI: 0.167 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL B 759 /- /- /483 /116 /232 F 639 /- /- /382 /87 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 6.0 Min Req = 1.5 F Brg Width = 6.0 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 143 -758 D - E 155 -582 C - D 154 -579 E - F 146 -764

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

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 6-7-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B - G 518 -71 G - F 535 -47

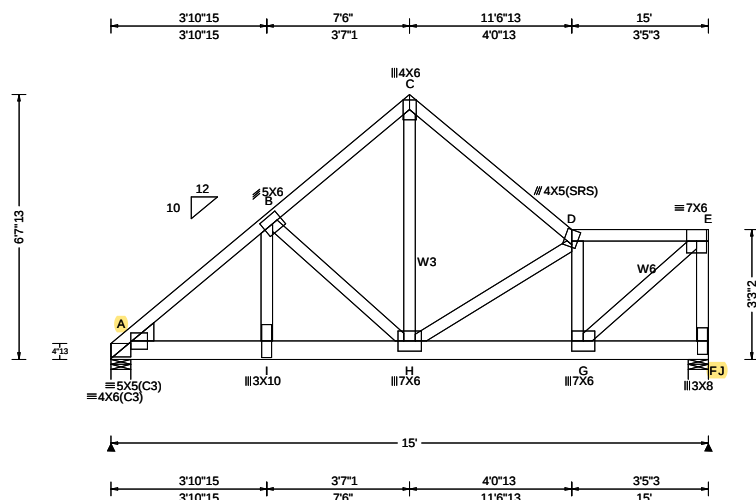
Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp.
D - G 439 -98

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: E03	Ply: 2 Qty: 1	SEQN: 354450 / T39 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46313 KD / WHK 01/26/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2012 TPI Std: 2014 Rep Factors Used: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.071 H 999 240 VERT(TL): 0.141 H 999 180 HORZ(LL): 0.027 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.349 Max BC CSI: 0.428 Max Web CSI: 0.835 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 5891 -/- /- /- /828 -/ J 5292 -/- /- /- /855 -/ Non-Gravity Wind reactions based on MWFRS A Brg Width = 6.0 Min Req = 2.4 J Brg Width = 6.0 Min Req = 2.2 Bearings A & 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. A - B 580 -3923 C - D 426 -2640 B - C 425 -2640 D - E 442 -2732

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x4 SP #2
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3 W3,W6 2x4 SP #2;
Lt Wedge: 2x6 SP 2400f-2.0E;
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 4.50" 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 66 plf at 0.00 to 66 plf at 15.00
BC: From 10 plf at 0.00 to 10 plf at 12.56
BC: From 20 plf at 12.56 to 20 plf at 15.00
BC: 1388 lb Conc. Load at 2.06, 4.06
BC: 1282 lb Conc. Load at 4.56
BC: 1490 lb Conc. Load at 6.56, 8.56, 10.56, 12.56

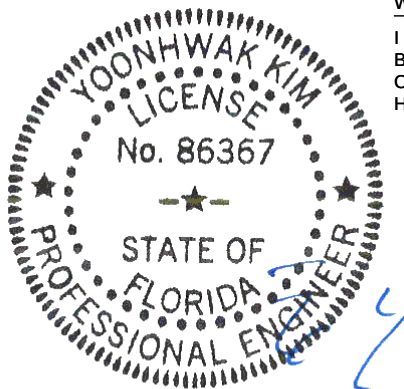
Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Additional Notes
The overall height of this truss excluding overhang is 6'-7-13.

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

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - I 2979 -434 H - G 2852 -462
I - H 2953 -432

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
I - B 1602 -169 D - G 206 -1194
B - H 155 -1287 G - E 3700 -598
C - H 3172 -480 E - F 420 -2549
H - D 176 -1030

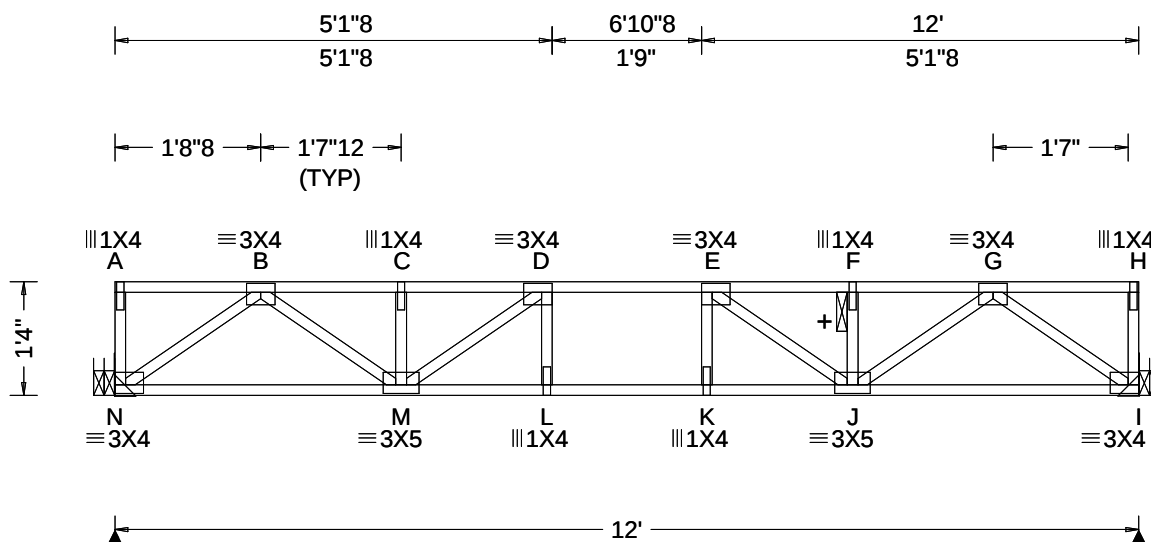


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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: F03	Ply: 1 Qty: 12	SEQN: 335824 / T20 / SY42 FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45516 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity						
TCDL: 10.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.084 L 999 480	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(TL): 0.127 L 999 360	N	660	/-	/-	/-	/-	/-
BCDL: 5.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.017 I - -	I	660	/-	/-	/-	/-	/-
	EXP: NA		HORZ(TL): 0.026 B - -	N	Brg Width = -			Min Req = -		
Des Ld: 55.00	Mean Height: NA ft		Creep Factor: 2.0	I	Brg Width = -			Min Req = -		
NCBCLL: 10.00	TCDL: NA psf	Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	Max BC CSI: 0.424	Members not listed have forces less than 375#						
Soffit: 2.00	BCDL: NA psf		Max Web CSI: 0.579	Maximum Top Chord Forces Per Ply (lbs)						
Load Duration: 1.00	MWFRS Parallel Dist: NA			Chords Tens.Comp. Chords Tens. Comp.						
Spacing: 24.0 "	C&C Dist a: NA ft			B - C 0 - 1334 E - F 0 - 1334						
	Loc. from endwall: NA			C - D 0 - 1334 F - G 0 - 1334						
	I: NA GCpi: NA		D - E 0 - 1611							
	Wind Duration: NA		VIEW Ver: 20.02.01A.1209.11							

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 4x2 SP #2
Bot chord 4x2 SP #2
Webs 4x2 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Hangers / Ties
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'

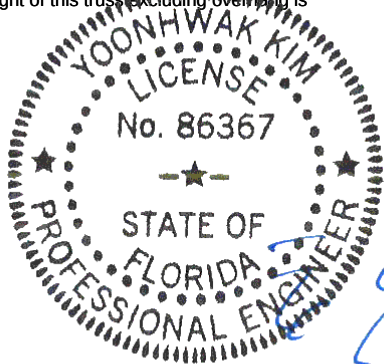
Bearing N (0', 10') HUS46
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bearing I (11'9", 10') HUS46
Supporting Member: (2)2x6 SP 2400f-2.0E
(4) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.
The overall height of this truss including overhang is 1'-4"-0."



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	812	0	K - J	1610	0
M - L	1610	0	J - I	812	0
L - K	1611	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-994	E - J	0	-473
B - M	648	0	J - G	648	0
M - D	0	-473	G - I	0	-994

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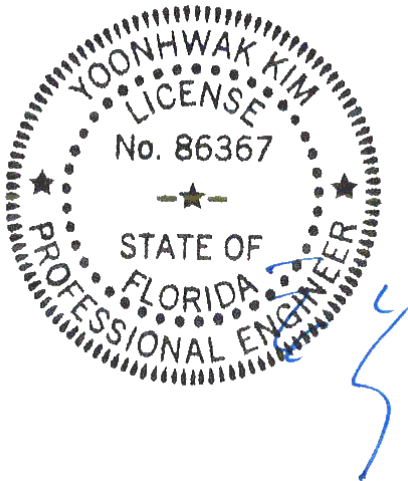
Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 4x2 SP #2
Bot chord 4x2 SP #2
Webs 4x2 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Bracing
Sheathing is required for any longitudinal(drag) forces.
All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 1X4 except as noted.

Loading
Bottom chord checked for 10.00 psf non-concurrent live load.

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 1'-4"-0.



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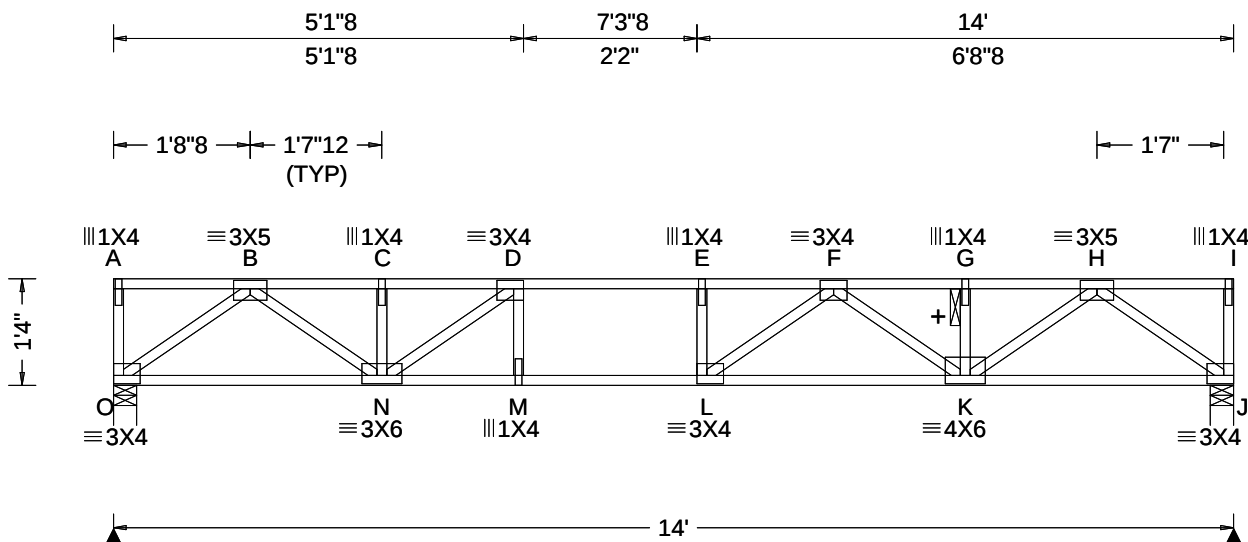
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: F05	Ply: 1 Qty: 6	SEQN: 335774 / T24 / SY42 FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45359 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 10.00 BCLL: 0.00 BCDL: 5.00 Des Ld: 55.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.178 E 945 480 VERT(TL): 0.266 E 632 360 HORZ(LL): 0.026 J - - HORZ(TL): 0.036 J - - Creep Factor: 2.0 Max BC CSI: 0.885 Max Web CSI: 0.399 VIEW Ver: 20.02.01A.1209.11	Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 770 -/- /- /- /- /- /- J 770 -/- /- /- /- /- /- O Brg Width = 3.5 Min Req = 1.5 J Brg Width = 3.5 Min Req = 1.5 Bearings O & 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 0 - 1621 E - F 0 - 2159 C - D 0 - 1621 F - G 0 - 1645 D - E 0 - 2165 G - H 0 - 1645

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 4x2 SP M-31
Bot chord 4x2 SP #2
Webs 4x2 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

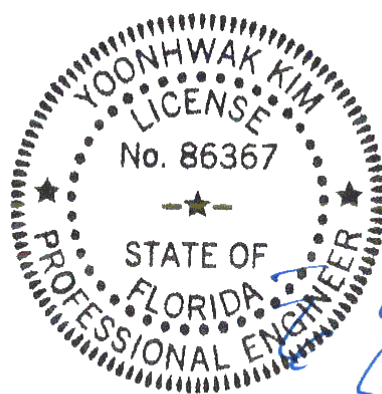
Bottom chord checked for 10.00 psf non-concurrent live load.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

The overall height of this truss excluding overhang is 1'-4"-0.



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01/26/2021

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
O - N	965 0	L - K	2050 0
N - M	2161 0	K - J	970 0
M - L	2165 0		

Maximum Web Forces Per Ply (lbs)

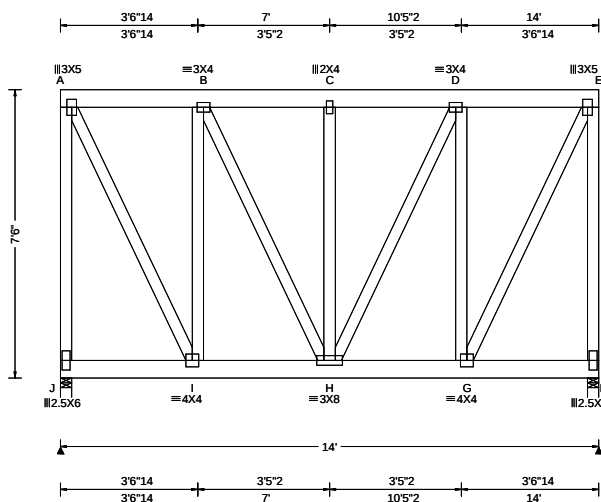
Webs	Tens.Comp.	Webs	Tens. Comp.
O - B	0 - 1182	F - K	0 - 503
B - N	813 0	K - H	838 0
N - D	0 - 788	H - J	0 - 1188
L - F	394 - 74		

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: FT02	Ply: 2 Qty: 1	SEQN: 354452 / T8 / FLAT FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46296 KD / WHK 01/26/2021
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 17.50 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 12.50 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.028 C 999 240 VERT(TL): 0.057 C 999 180 HORZ(LL): 0.002 A - - HORZ(TL): 0.005 A - - Creep Factor: 2.0 Max BC CSI: 0.108 Max Web CSI: 0.103 Max Web CSI: 0.595 VIEW Ver: 20.01.01A.0724.11	Gravity Loc R+ / R- / Rh / Rw / U / RL J 2821 -/- /- /- /274 -/ F 2887 -/- /- /- /281 -/ Non-Gravity Wind reactions based on MWFRS J Brg Width = 3.5 Min Req = 1.5 F Brg Width = 3.5 Min Req = 1.5 Bearings J & 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. A - B 50 -518 C - D 67 -690 B - C 67 -690 D - E 50 -519

Lumber
Value Set: 13B (Effective 6/1/2013)
Top chord 2x6 SP 2400f-2.0E
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote
Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 4.25" 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.

Special Loads
-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 30 plf at 0.00 to 30 plf at 14.00
BC: From 20 plf at 0.00 to 20 plf at 14.00
TT: 455 lb Conc. Load at 0.44, 1.77, 3.10, 4.44, 5.77, 7.10, 8.44, 9.77, 11.10, 12.44, 13.65

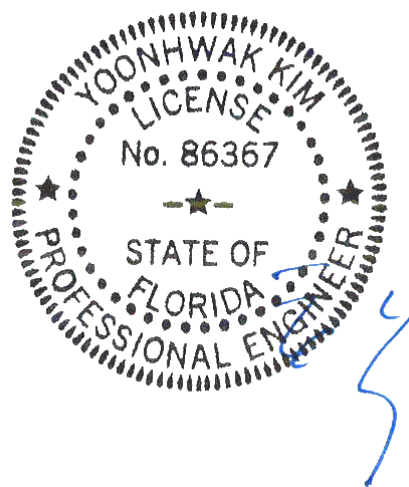
Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

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

Additional Notes
Truss must be installed as shown with top chord up.
The overall height of this truss excluding overhang is 7-6-0.
WIND LOAD CASE MODIFIED!

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
I - H 552 -54 H - G 553 -54

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
A - J 126 -1208 D - G 101 -815
A - I 1184 -114 G - E 1187 -115
I - B 101 -813 E - F 128 -1232
C - H 62 -460

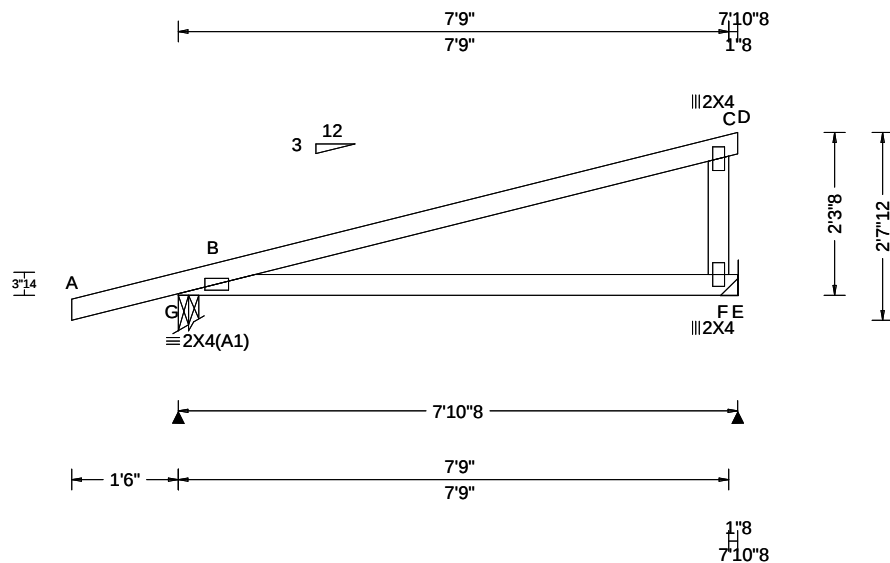


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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M01	Ply: 1 Qty: 17	SEQN: 335722 / T25 / MONO FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45844 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.019 F - - HORZ(TL): 0.036 F - - Creep Factor: 2.0 Max BC CSI: 0.545 Max Web CSI: 0.280 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 427 /- /- /232 /95 /80 E 305 /- /- /161 /65 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = - Min Req = - Bearing G is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

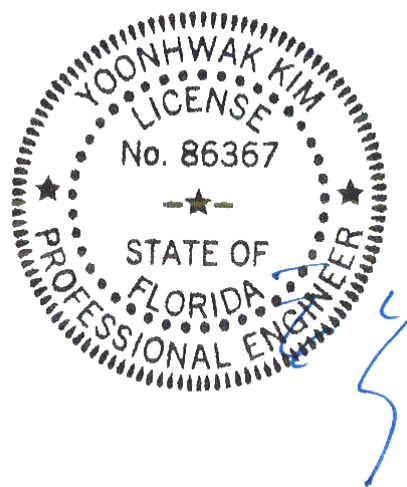
Wind loads based on MWFRS with additional C&C member design.

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 2'-3"-8".



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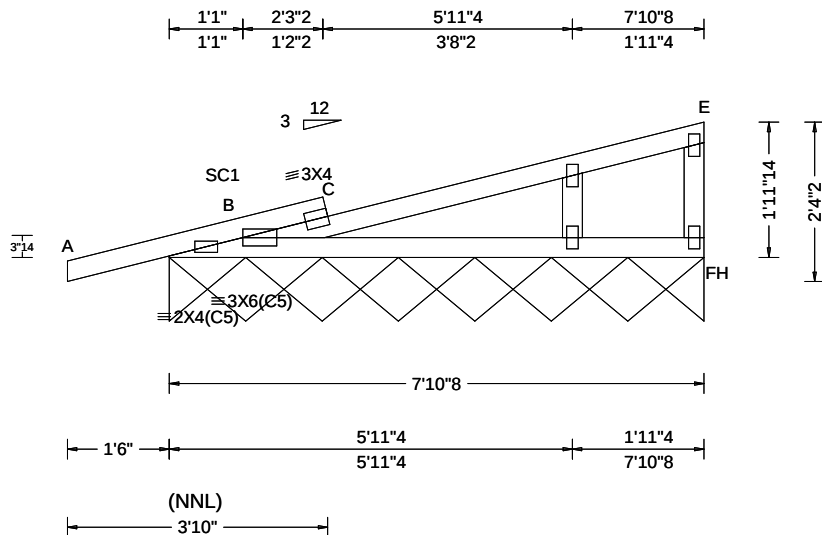
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M02	Ply: 1 Qty: 2	SEQN: 335724 / T15 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46063 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.030 C 999 240 VERT(TL): 0.058 C 999 180 HORZ(LL): -0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.257 Max Web CSI: 0.052 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H* 93 /- /- /49 /- /4 Wind reactions based on MWFRS H Brg Width = 94.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Purlins

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

Wind

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

Right end vertical not exposed to wind pressure.

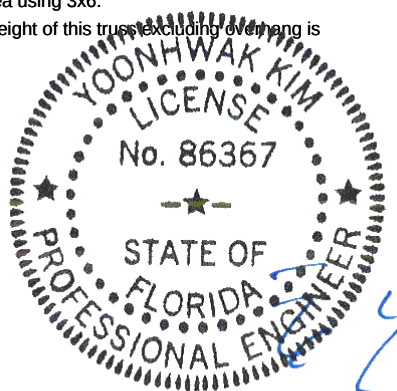
Wind loading based on both gable and hip roof types.

Additional Notes

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 noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.

The overall height of this truss including overhang is 1-11-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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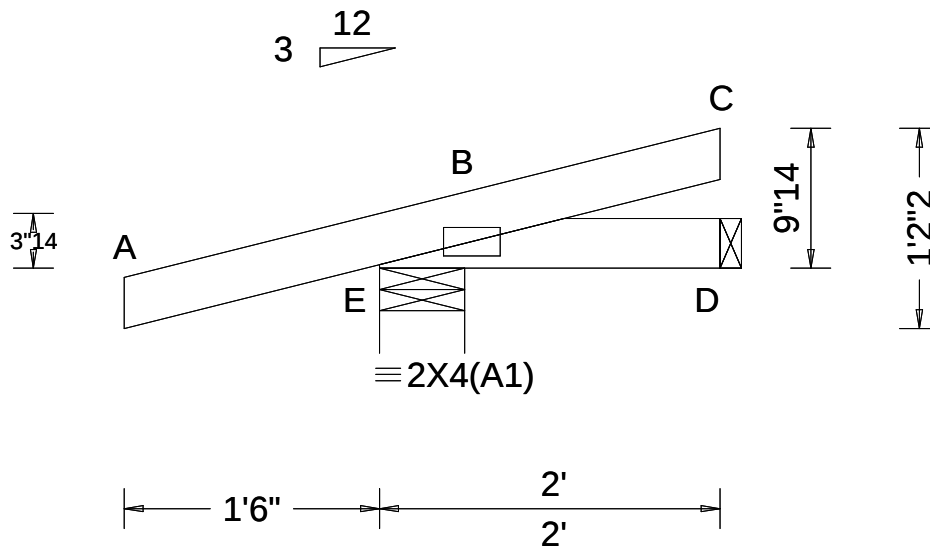
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M03	Ply: 1 Qty: 7	SEQN: 335878 / T17 / MONO FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45313 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 C 999 240 VERT(TL): 0.008 C 999 180 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.036 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E 231 /- /- /135 /94 /33 D 38 /- /- /30 /16 /- Wind reactions based on MWFRS E Brg Width = 6.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

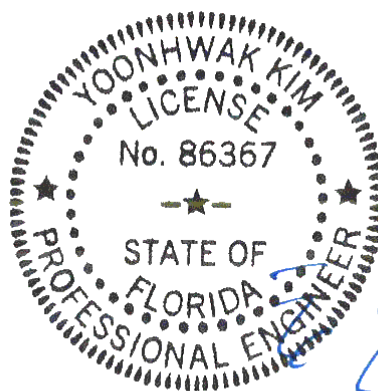
Wind

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 0-9-14.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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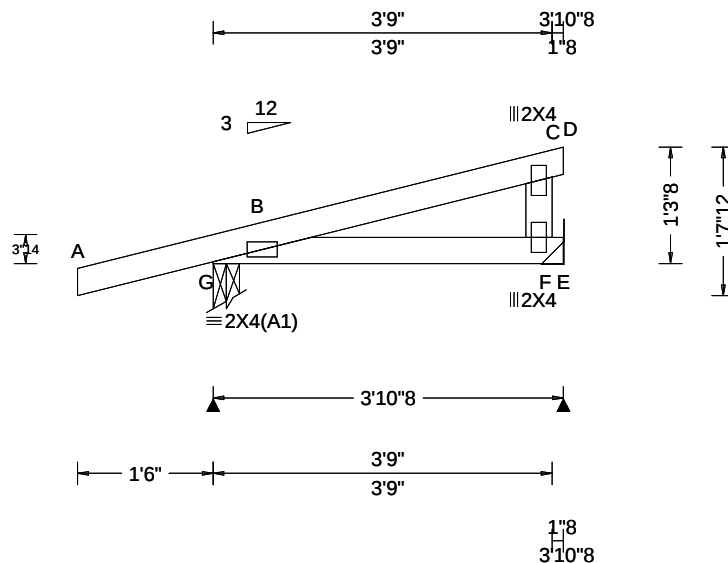
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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Orlando FL, 32837

Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: M04	Ply: 1 Qty: 8	SEQN: 335960 / T18 / MONO FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45735 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C 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	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.001 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.148 Max BC CSI: 0.101 Max Web CSI: 0.024 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 278 /- /- /157 /87 /47 E 131 /- /- /75 /9 /- Wind reactions based on MWFRS G Brg Width = 3.5 Min Req = 1.5 E Brg Width = - Min Req = - Bearing G is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

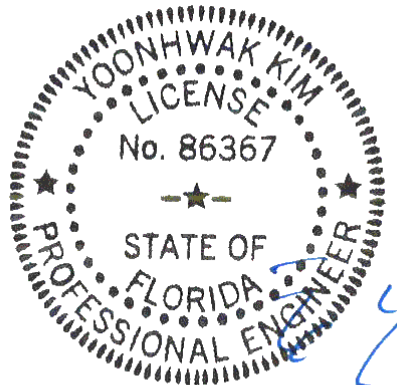
Wind loads based on MWFRS with additional C&C member design.

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 1'-3"-8".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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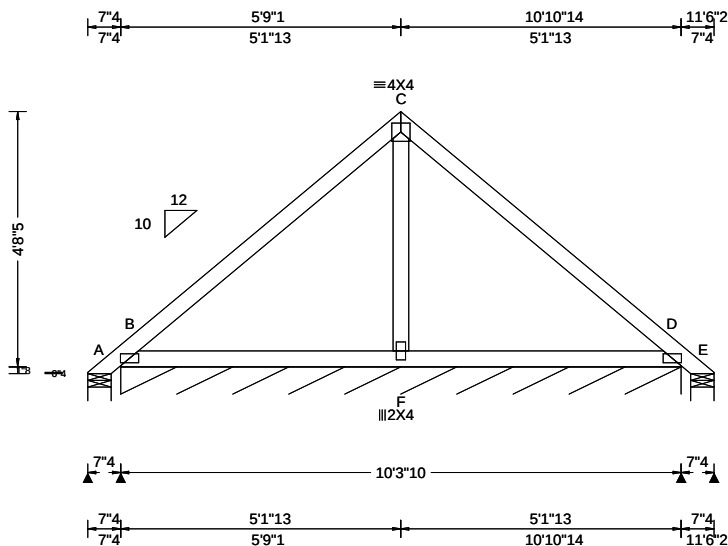
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB01	Ply: 1 Qty: 17	SEQN: 335972 / T7 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46218 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 23.42 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 F 999 240 VERT(TL): 0.002 F 999 180 HORZ(LL): -0.001 F - - HORZ(TL): 0.003 F - - Creep Factor: 2.0 Max TC CSI: 0.256 Max BC CSI: 0.085 Max Web CSI: 0.009 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 4 /-1 /- /- /16 /- B* 48 /- /- /42 /- /- E - /-193 /- /- /94 /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 123 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

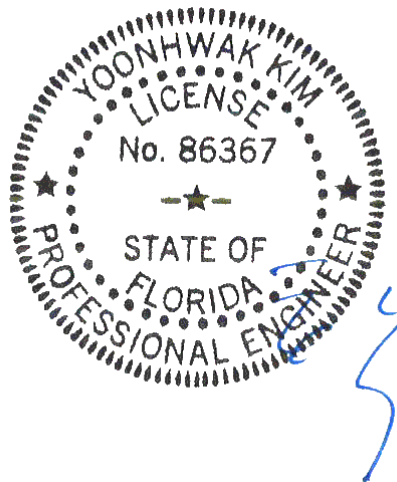
Wind loading based on both gable and hip roof types.

Additional Notes

Negative reaction(s) of -193# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 4-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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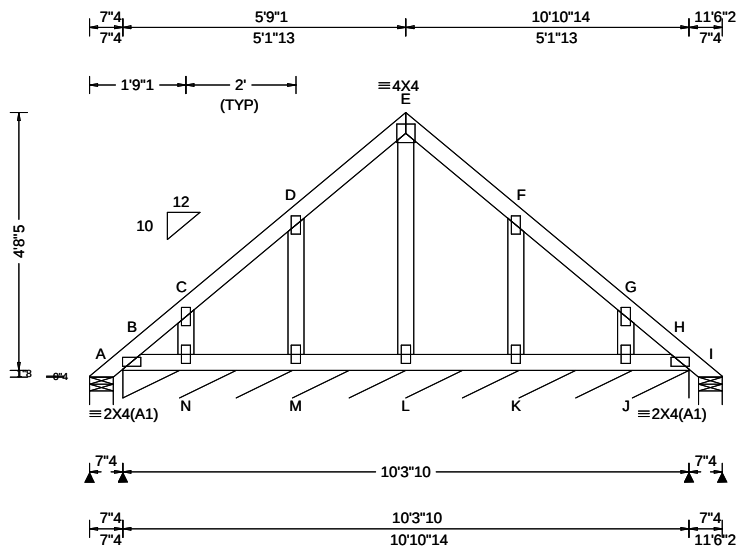
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB02	Ply: 1 Qty: 2	SEQN: 335956 / T3 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45781 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 23.42 ft TCDL: 5.0 psf BCDL: 2.0 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): -0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.036 Max BC CSI: 0.011 Max Web CSI: 0.022 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 1 /- /- /5 /- /- B* 28 /- /- /30 /- /- I 17 /- /- /11 /- /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 123 Min Req = - I Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & I are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

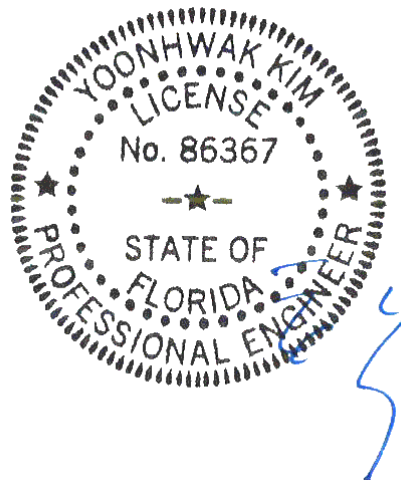
Wind loads based on MWFRS with additional C&C member design.

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 4-9-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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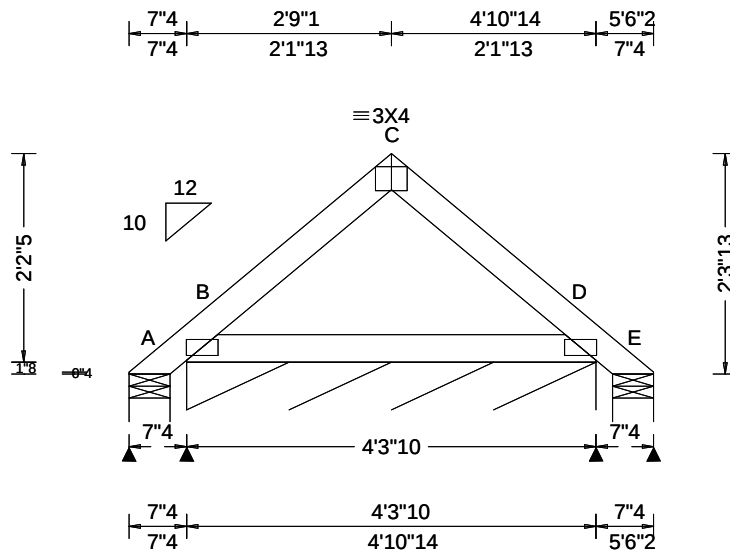
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB03	Ply: 1 Qty: 5	SEQN: 335899 / T12 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46156 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 C 999 240 VERT(TL): 0.001 C 999 180 HORZ(LL): -0.000 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.032 Max BC CSI: 0.053 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 1 /-1 /- /53 /60 /67 B* 83 /- /- /72 /6 /- E 1 /-1 /- /11 /18 /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 51.6 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

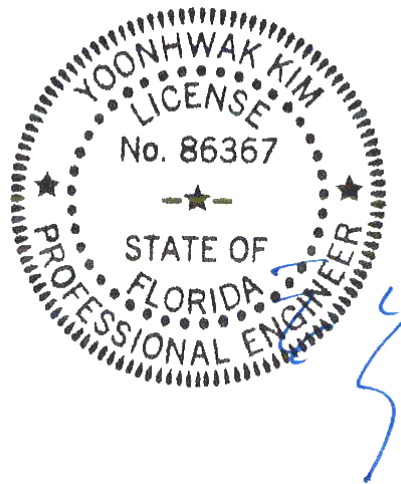
Wind loads based on MWFRS with additional C&C member design.

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 2-3-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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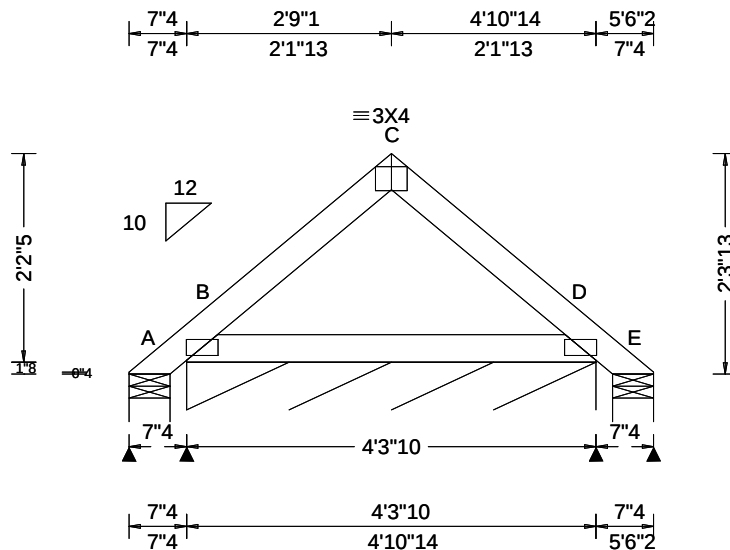
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB03	Ply: 1 Qty: 2	SEQN: 335945 / T26 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45796 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 16.23 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 C 999 240 VERT(TL): 0.001 C 999 180 HORZ(LL): -0.000 - - HORZ(TL): 0.001 - - Creep Factor: 2.0 Max TC CSI: 0.032 Max BC CSI: 0.053 Max Web CSI: 0.000 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 1 /-1 /- /52 /58 /65 B* 83 /- /- /71 /26 /- E 1 /-1 /- /11 /18 /- Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 51.6 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP #2

Bot chord 2x4 SP #2

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

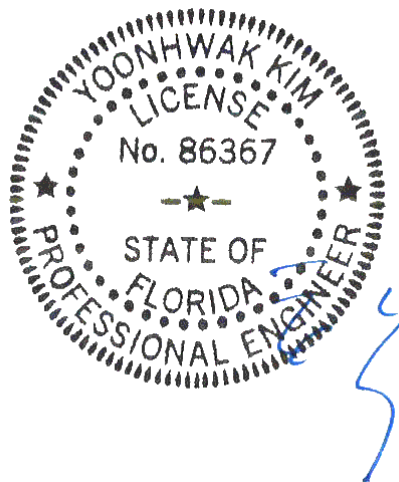
Wind loads based on MWFRS with additional C&C member design.

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 2-3-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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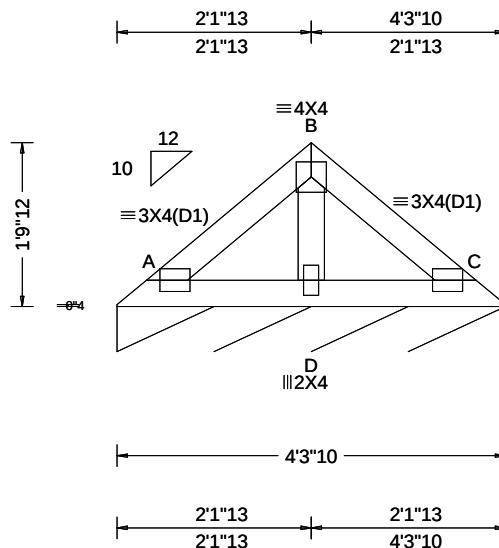
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB04	Ply: 1 Qty: 1	SEQN: 335947 / T14 / COMN FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45344 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 22.17 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2014 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(TL): 0.000 D 999 180 HORZ(LL): -0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max BC CSI: 0.012 Max Web CSI: 0.002 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A* 4 /- /- /20 /- /- Wind reactions based on MWFRS A Brg Width = 51.6 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

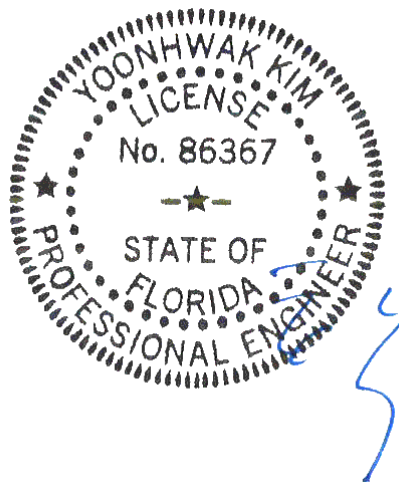
Wind loads based on MWFRS with additional C&C member design.

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 1'-11-4.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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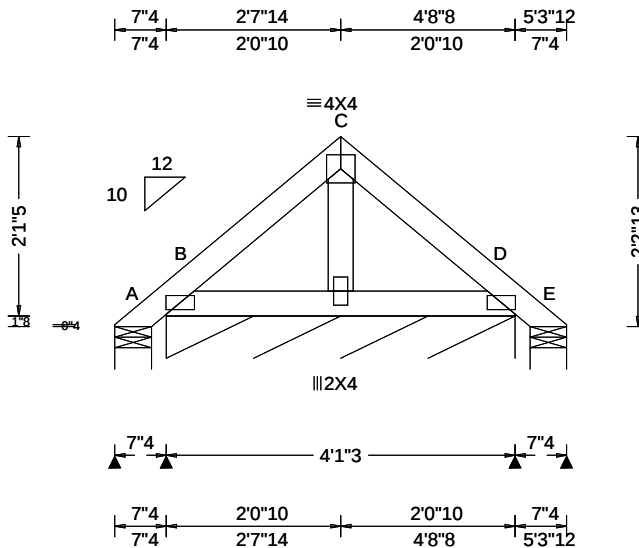
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB06	Ply: 1 Qty: 14	SEQN: 335822 / T13 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45766 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 18.19 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max TC CSI: 0.042 Max BC CSI: 0.019 Max Web CSI: 0.011 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 9 /-15 /- /53 /50 /63 B* 86 /- /- /68 /33 /- E - /-4 /- /12 /8 /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 49.2 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

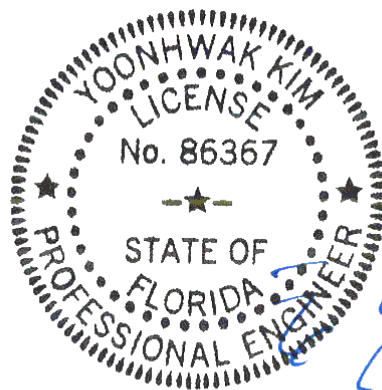
Wind loading based on both gable and hip roof types.

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 2-2-13.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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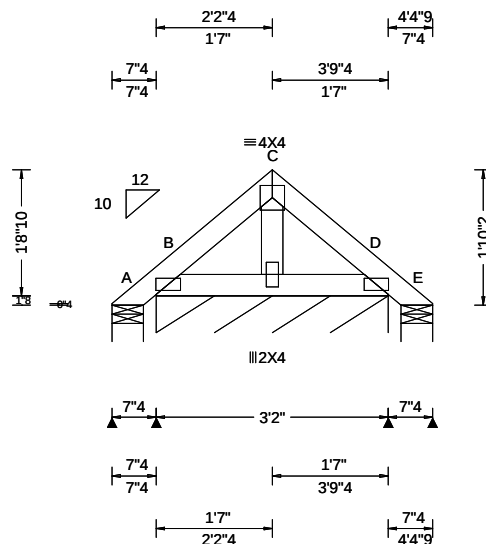
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB07	Ply: 1 Qty: 11	SEQN: 335746 / T29 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45578 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.75 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 F 999 240 VERT(TL): 0.000 F 999 180 HORZ(LL): 0.000 F - - HORZ(TL): 0.000 F - - Creep Factor: 2.0 Max BC CSI: 0.023 Max BC CSI: 0.011 Max Web CSI: 0.009 VIEW Ver: 20.02.01A.1209.11	Gravity Loc R+ / R- / Rh / Rw / U / RL A 8 /- /- /42 /33 /50 B* 83 /- /- /67 /24 /- E 8 /- /- /8 /- /- Non-Gravity Wind reactions based on MWFRS A Brg Width = 5.2 Min Req = 1.5 B Brg Width = 38.0 Min Req = - E Brg Width = 5.2 Min Req = 1.5 Bearings A, B, & E are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

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

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

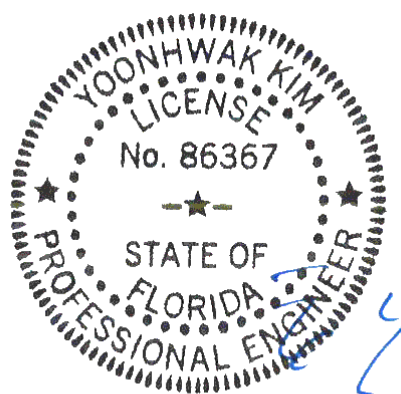
Wind loading based on both gable and hip roof types.

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 1-10-2.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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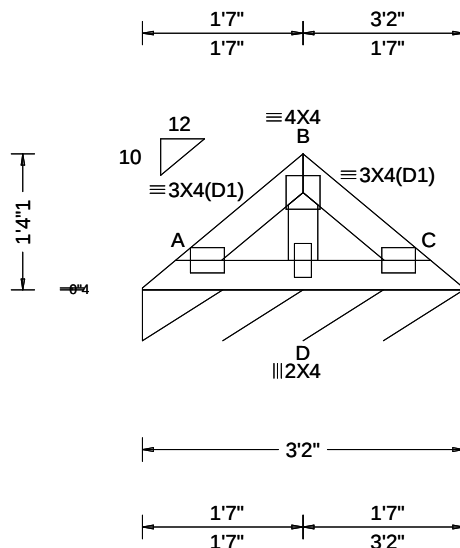
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB08	Ply: 1 Qty: 1	SEQN: 335748 / T38 / SPEC FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.46235 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2015 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(TL): 0.000 D 999 180 HORZ(LL): -0.000 D - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.004 Max BC CSI: 0.005 Max Web CSI: 0.001 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A* 4 /- /- /20 /- /- Wind reactions based on MWFRS A Brg Width = 38.0 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

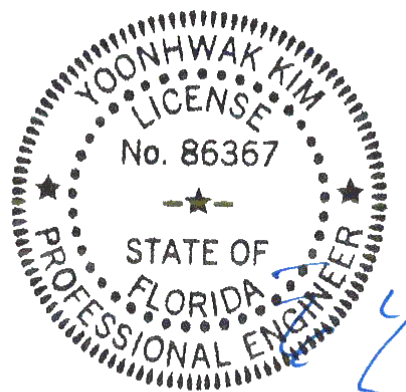
Wind loads based on MWFRS with additional C&C member design.

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 1-5-9.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/26/2021

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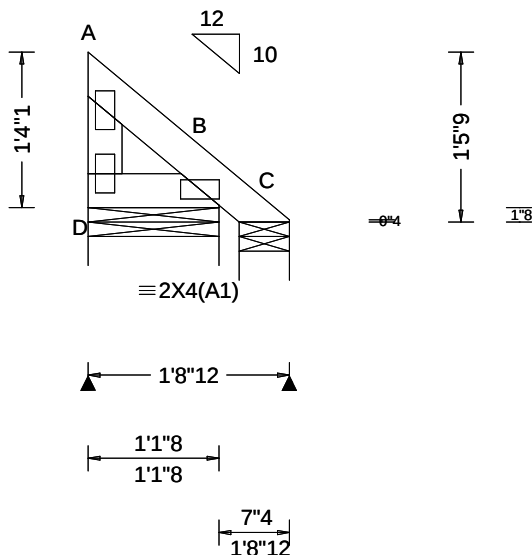
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Job Number: 20-4966 Dale and Karla Nickelson Res Truss Label: PB09	Ply: 1 Qty: 3	SEQN: 335750 / T19 / GABL FROM: CDM	Cust: R215 JRef: 1X2e2150002 DrwNo: 026.21.1006.45921 KD / WHK 01/26/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCCL: 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 Mean Height: 16.39 ft TCCL: 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 Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(TL): 0.000 D 999 180 HORZ(LL): 0.000 A - - HORZ(TL): 0.000 D - - Creep Factor: 2.0 Max BC CSI: 0.011 Max BC CSI: 0.005 Max Web CSI: 0.004 VIEW Ver: 20.02.01A.1209.11	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 93 /- /- /85 /13 /33 C 14 /- /- /13 /1 /- Wind reactions based on MWFRS D Brg Width = 13.5 Min Req = 1.5 C Brg Width = 5.2 Min Req = 1.5 Bearings D & C are a rigid surface. Members not listed have forces less than 375#

Lumber

Value Set: 13B (Effective 6/1/2013)

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

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

Left end vertical not exposed to wind pressure.

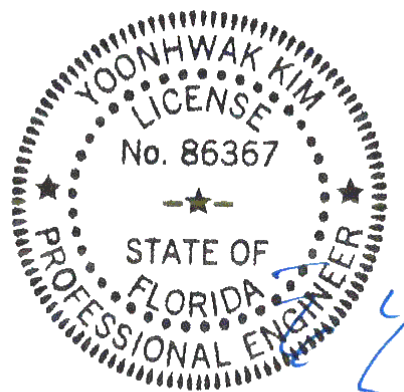
Wind loading based on both gable and hip roof types.

Additional Notes

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'-5-9".



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/26/2021

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

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

ALPINE
 AN ITW COMPANY
 2400 Lake Orange Dr.
 Suite 150
 Orlando FL, 32837

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		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.		SPF	#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"
		SP DFL	Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
			#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"
		SP	#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"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"	14' 0"
		SPF	#1 / #2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
			#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"
16" O.C.		SPF	Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		SP DFL	#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"
		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.		SPF	#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"
		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"
			Standard	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	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 55 plf over continuous bearing (5 psf TC Dead Load).

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

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

* For (1) 'L' brace: space nails at 2' o.c.

in 18' end zones and 4' o.c. between zones.

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

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

Gable Vertical Plate Sizes

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

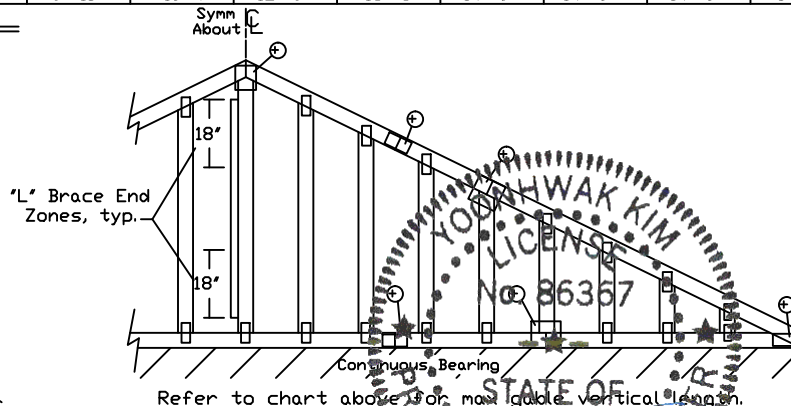
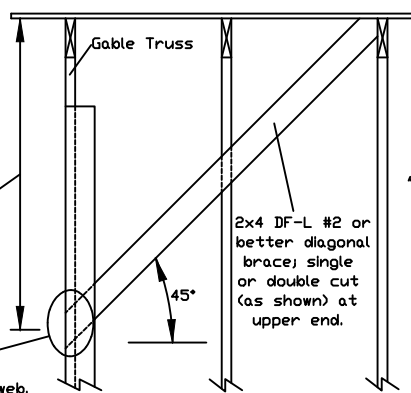
+ Refer to common truss design for peak, splice, and heel plates.

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

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

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.tpinet.org; SBCA: www.sbcaindustry.org; ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045

Yoonhwak Kim, FL PE #86367

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

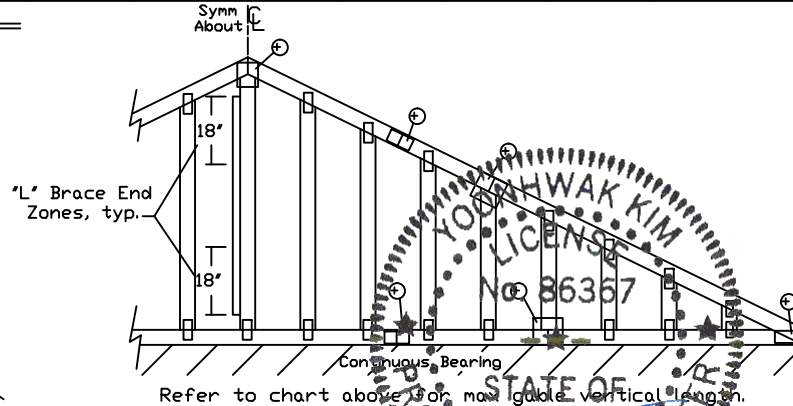
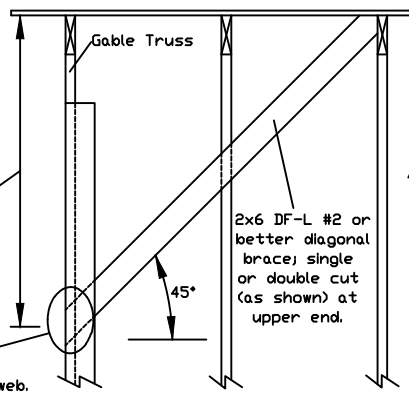
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

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.



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.

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For more information see this job's general notes page and these web sites: 01/26/2021
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



514 Earth City Expressway
Suite 242
Earth City, MO 63045

Yoonhwak Kim, FL PE #86367

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-reinforcement or scab reinforcement.

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

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

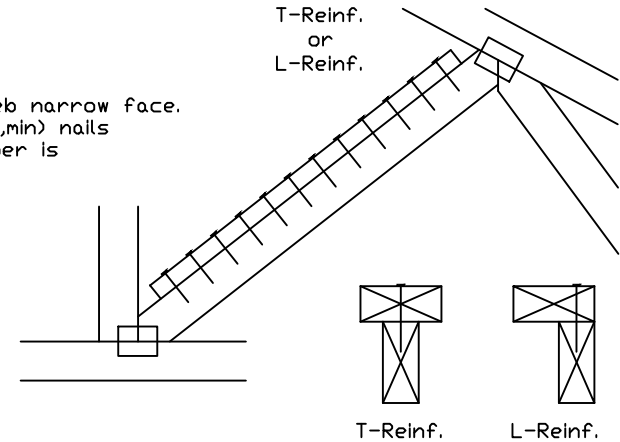
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(X)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(X)

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.

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

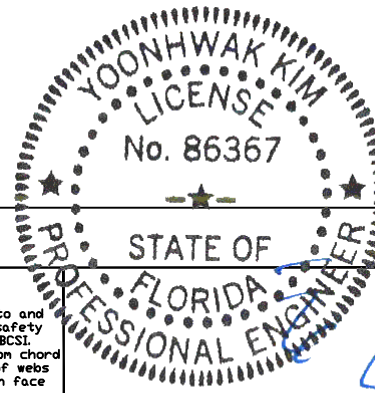
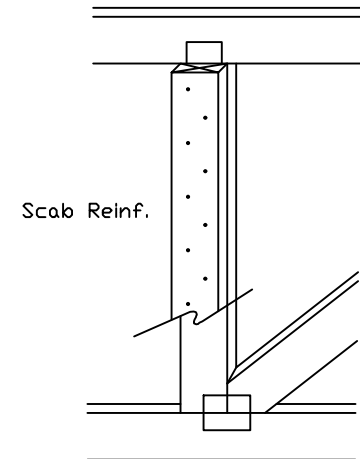
T-Reinforcement or L-Reinforcement:

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.



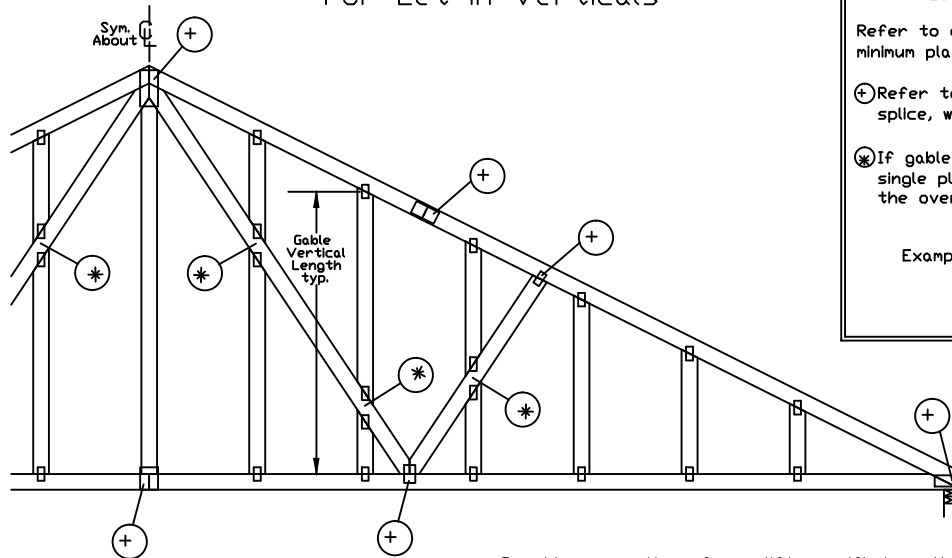
514 Earth City Expressway
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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

12/26/2021 11:28:27 AM, Yoonhwak Kim, FL PE #86367

Gable Detail For Let-in Verticals

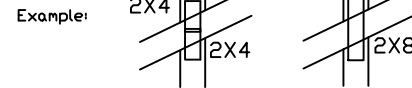


Gable Truss Plate Sizes

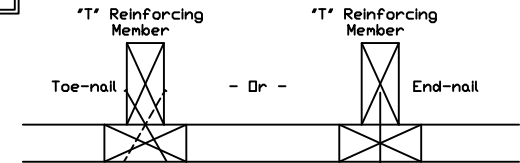
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

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

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



"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"x 3", 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.

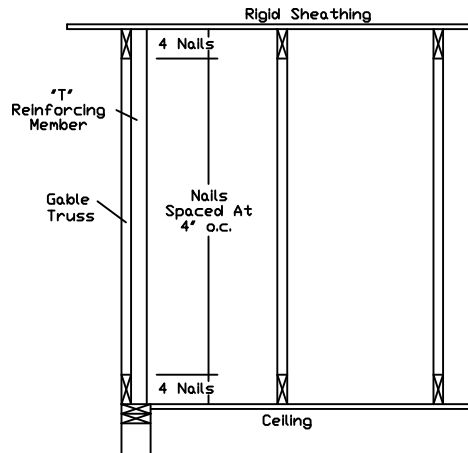
ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A10015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015P100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A10030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030P100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015P100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030P100118

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



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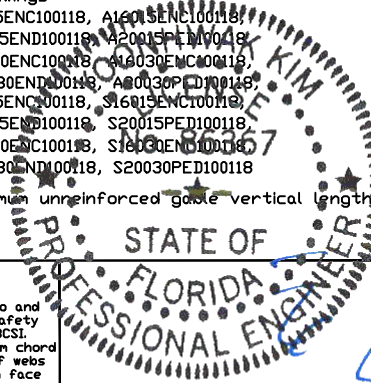
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514 Earth City Expressway
Suite 242
Earth City, MO 63045



Yoonhwak Kim, FL PE #86367

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

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

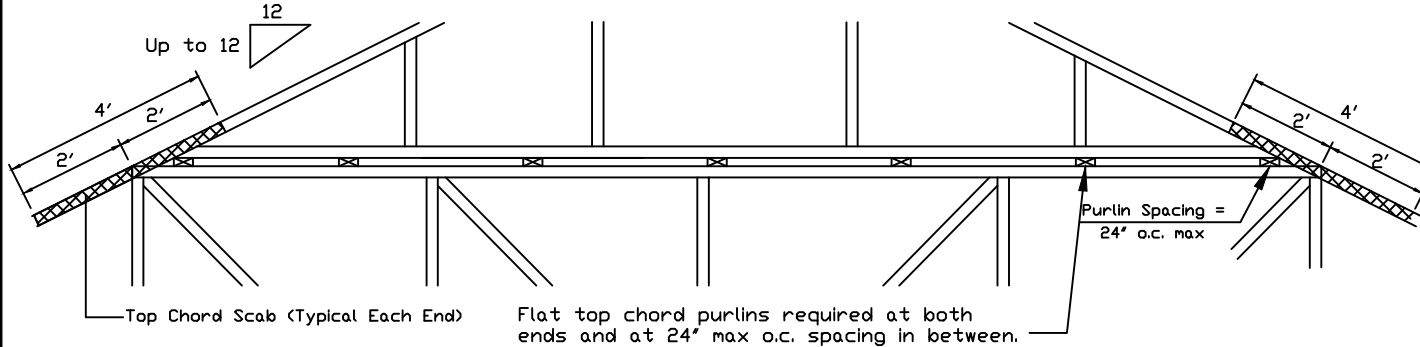
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

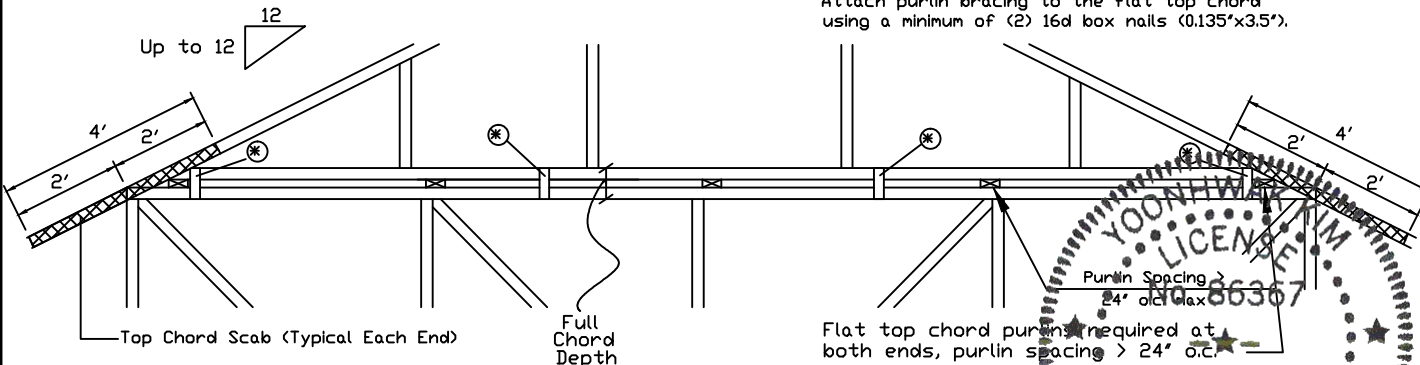


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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").

* 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.

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.

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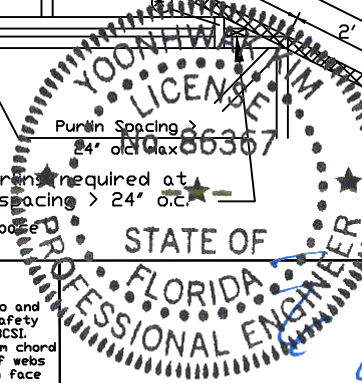
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13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

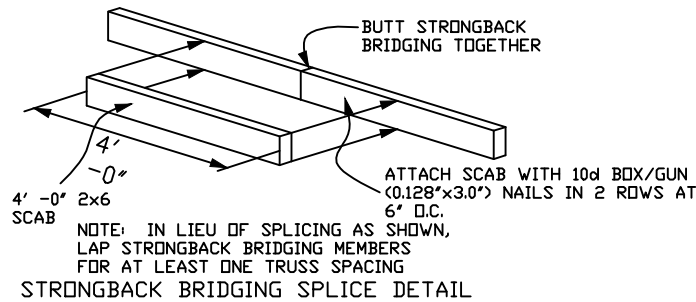


Yoonhwak Kim, FL PE #86367

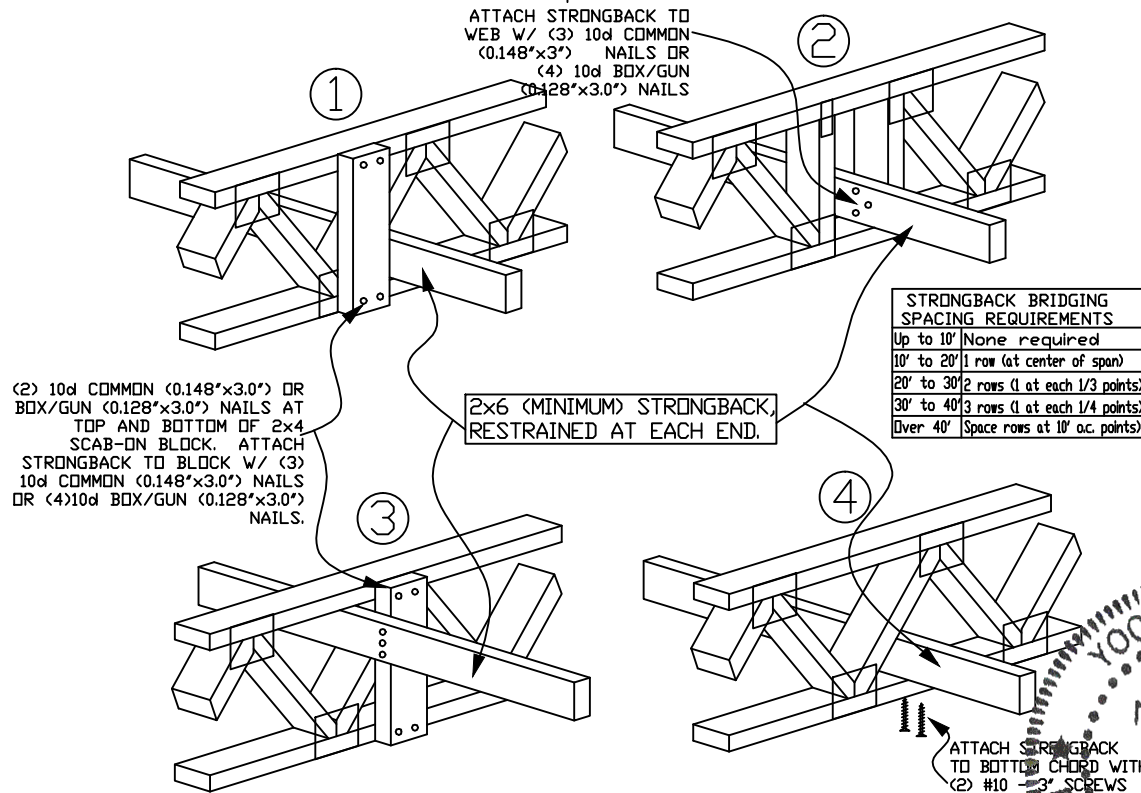
REF PIGGYBACK
DATE 01/02/2018
DRWG PB160160118

SPACING 24.0"

STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' - 0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



514 Earth City Expressway
Suite 242
Earth City, MO 63045

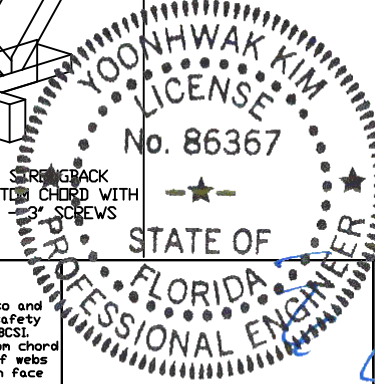
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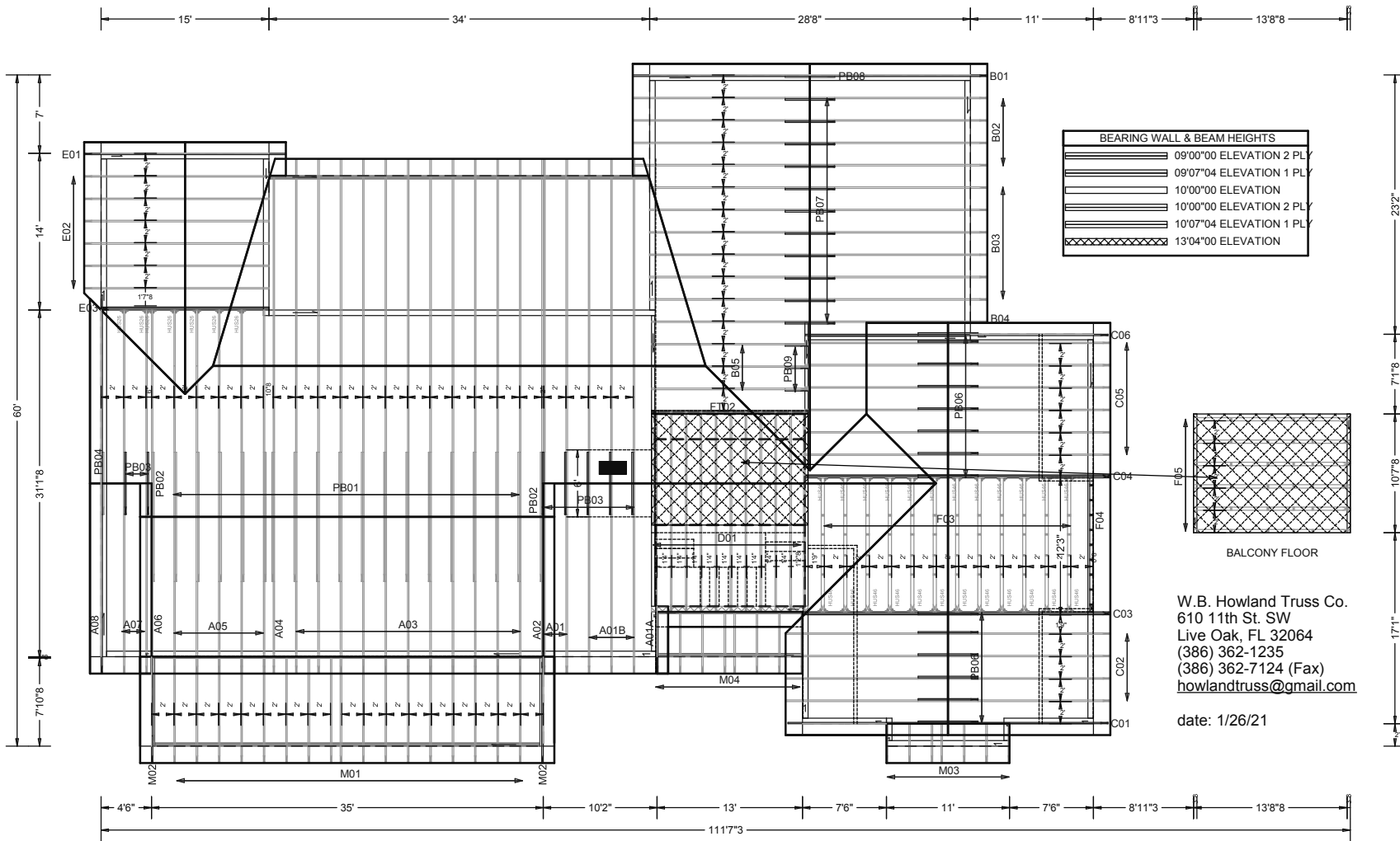
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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Yoonhwak Kim, FL PE #86367



JOB #: 20-4966

Job Name: Dale and Karla Nickelson
 Customer: Contractor
 Designer: Bill Eklund
 ADDRESS:
 SALESMAN: Fill in later
 : <Not Found>

JOB NO:
 20-4966

PAGE NO:
 1 OF 1