

COA#0-278

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

Site Information:	Page 1:	
Customer: Seminole Trusses, Inc.	Job Number: B54135b	
Job Description: TOWNSEND RESIDENCE	*	
Address: SW DON COOK WAY, FORT WHITE, FL 32038		

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.02.00A JRef #: 1X7f8570005		
Wind Standard: ASCE716 Wind Speed (mph): 0 Building Type:	Design Loading (psf): 55.00		

This package contains general notes pages, 1 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	207.21.1028.57049	F1 17'11"14 Floor Truss
3	PB180160118	
5	STRBRIBR1014	

Drawing Number	Truss
PB160160118	
REPCHRD1014	
	PB160160118



General Notes

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

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

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

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

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

Temporary Lateral Restraint and Bracing:

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

Permanent Lateral Restraint and Bracing:

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

Connector Plate Information:

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

Fire Retardant Treated Lumber:

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

General Notes (continued)

Key to Terms:

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

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

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

CL = Certified lumber.

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

FRT = Fire Retardant Treated lumber.

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

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

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

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

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

SEQN: 57703 / SY42 Plv: 1 Job Number: B54135b Cust: R 857 JRef: 1X7f8570005 FROM: R.II Qty: 11 TOWNSEND RESIDENCE DrwNo: 207.21.1028.57049 Truss Label: F1 17'11"14 Floor Truss SSB / FV 07/26/2021 14'5"10 1'6" 7'8"10 5'6' 12'11"10 17'11"14 16'4"6 5'6' 2'2"10 5'3' 1'10"12 1'7"8 3" 1'3"12 3 2'6" (TYP) III2X4 D ∥1.5X3 E III2X4 ∥2X4 K В C G 3.8 - 1.4" -S R Q N Ⅲ1.5X3 M L 11.5X3 ≡3X6 =3X6 12'11"10 5'0"4 17'11"14 -Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Wind Std: NA TCLL: 40.00 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity Non-Gravity Speed: NA mph TCDL: 10.00 /Rh Pf: NA /Rw /U /RL Ce: NA VERT(LL): 0.069 D 999 360 BCLL: Enclosure: NA 0.00 LIP NA VERT(CL): 0.107 D 999 240 Cs. NA 564 1-Category: NA BCDL: 5.00 Snow Duration: NA HORZ(LL): 0.017 B 0 840 1-EXP: NA Kzt: NA Des Ld: 55.00 HORZ(TL): 0.026 B 223 1-1-Mean Height: NA ft NCBCLL: 10.00 **Building Code:** Brg Width = 3.4 Creep Factor: 2.0 Min Req = 1.5 TCDL: NA psf Brg Width = 3.5 Soffit: 0.00 FBC 7th Ed. 2020 Res. 0 Min Req = 1.5 Max TC CSI: 0.500 BCDL: NA psf Brg Width = -Min Req = -TPI Std: 2014 Load Duration: 1.00 Max BC CSI: 0.402 MWFRS Parallel Dist: NA Bearings T & O are a rigid surface. Rep Fac: No Spacing: 19.2 " C&C Dist a: NA ft Max Web CSI: 0.245 Members not listed have forces less than 375# Loc. from endwall: NA FT/RT:12(0)/10(0) Maximum Top Chord Forces Per Ply (lbs) I: NA GCpi: NA Plate Type(s): Chords Tens.Comp. Chords Tens. Comp. Wind Duration: NA VIEW Ver: 20.02.00A.1020.20 WAVE B-C 0 -899 F-F 0 - 1369 Lumber C-D 0 - 1371 F-G -822 Top chord: 4x2 SP #1; Bot chord: 4x2 SP #1; Webs: 4x2 SP #3; D-E 0 - 1377 Maximum Bot Chord Forces Per Ply (Ibs) **Plating Notes** Chords Tens.Comp. Chords Tens. Comp. All plates are 3X4 except as noted. T-S 555 1169 S-R 1215 0 P-0 460 0 Hangers / Ties R-Q 1377 0 (J) Hanger Support Required, by others Maximum Web Forces Per Ply (lbs) **Additional Notes** Tens.Comp. Webs Tens. Comp. See detail STRBRIBR1014 for bracing and bridging Webs recommendations. T-B F-P 0 - 496 Deflection estimate assumes composite action with single layer of the appropriate span rated glue-nailed P-G B-S 478 0 514 0 S-C 0 - 440 G-0 0 - 808 Q-F 408 0 0-1 -415 Truss must be installed as shown with top chord up. INCENSE TO No 70773



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org



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

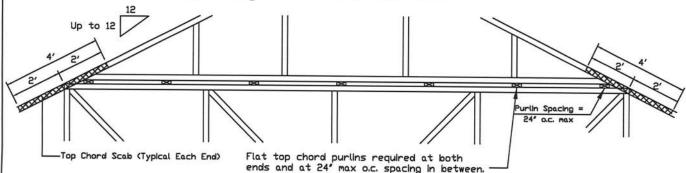
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



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

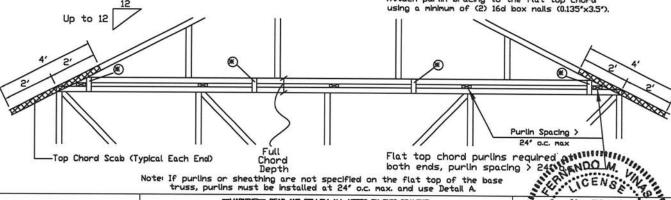
Attach purlin bracing to the flat top chord using (2) 16d box nalls (0,135"x3,5").

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

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

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

Attach purlin bracing to the flat top chord



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

MANAGEMENT READ AND FOLLOW ALL NOTES ON THIS DRAWING MAINPORTANTHEN FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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78 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI Guiding Conponent Safety information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and botton chornshall have a properly attached representation of the shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Betails, unless noted otherwise.

Refer to drawings 160A-Z for standard plate positions.

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

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

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

APA Rated Gusset

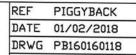
8'x8'x7/16' (min) APA rated sheathing gussets (each face). Attach & 8' o.c. with (8) 6d common (0.113'x2') nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs

2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nalls (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

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



SPACING 24.0"



Maryland Heights, MO 63043

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

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

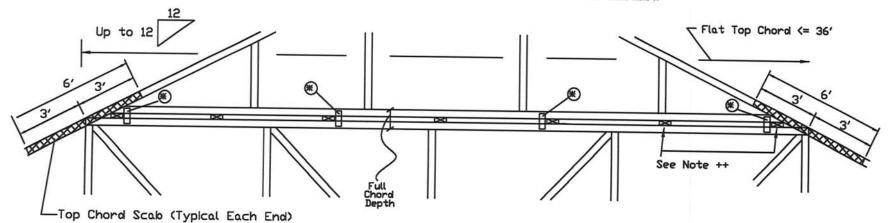
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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.

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

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 nalls (0.128'x3") at 4" o.c.

++ Flat top chord purlins required at both ends and at a maximum of 24" intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nalls (0.135"x3.5").



In addition, provide connection with one of the following methods: 28PB Wave Piggyback Plate Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face 8 8 o.c. with (4) One 28PB wave plagyback plate to each face 8 % o.c. Attach teeth to plagyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Plagyback plates may be staggered 4" o.c. front to back faces. 0.120'x1.375' nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' a.c. front to back faces. APA Rated Gusset 2x4 Vertical Scabs 8'x8'x7/16' (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113'x2') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces. 2x4 SPF #2, full chord depth scales (each face). Attach 2 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.



514 Earth City Expressway Suite 242 Earth City, MO 63045

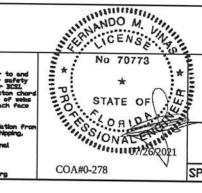
MINAROUS READ AND FOLLOW ALL NOTES ON THIS DRAVING MICHOPORTANT FURNISH THIS DRAVING TO ALL CONTRACTORS DICLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracking. Refer to and follow the latest edition of BCSI Childing Coopenant Safety Information, by TPI and SECO 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 shauthing and botton chord shall have a properly attached structural shauthing and botton chord shall have a properly attached right ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the John Brails, unless noted otherwise.

Refer to drawings 160A-Z for standard plate positions.

Apine, a division of TIV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the trues in conformance with ANSI/TPI 1, or for handling, shipping. Installation is bracing of truesses. A seel on this drawing or cover page listing this drawing, indicates acceptance of professional ampheering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Besigner per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPIND www.alpineits.com; TPD www.tpinstorg; SBCM www.sbcindustry.org; ICO www.iccaefe.org



REF **PIGGYBACK** 01/02/2018 DRWG PB180160118

SPACING 24.0"

Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

- (B) = Damaged area, 12" max length of damaged section
- (L) = Minimum nalling distance on each side of damaged area (B)
- (S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2)(L) + (B)

Scab member length (S) must be within the broken panel.

Nall into 2x4 members using two (2) rows at 4" o.c., rows staggered.

Nall into 2x6 members using three (3) rows at 4" o.c., rows staggered.

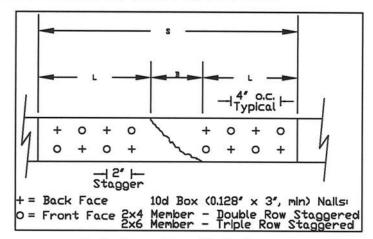
Nall using 10d box or gun nalls (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.



Nail Spacing Detail

Trusses require extreme care in februching, handling, shipping, installing and tracting. Refer to and folios the latest edition of BCSI Guiding Corponent Safety Information, by TPI and SECA for safety processes prior to performing these functions. Installers shall provide temporary bracking per BCSI. Unless noted othereise, top chard shall have properly attached structural sheathing and botton charshall have a properly attached right celling. Locations shown for permanent lateral restraint of sebs shall have bracking installed per BCSI sections B3, B7 or BB0, as applicable. Apply plates to each face of truss and position as shown above and on the John Detals, unless noted otherwise. Refer to drawings 1604–Z for standard plate positions.

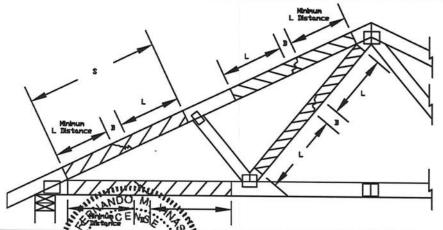
Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from his drawing, any falure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, statulation & irracing of trusses.

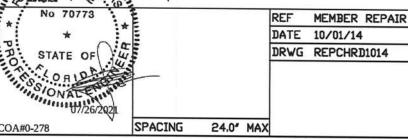
A seal on this draining or cover page listing this drawing, indicates acceptance of professional nighteering responsibility solely for the design show. The suitability and use of this drawing for any structure is the responsibility of the Building Besigner per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPIND www.alpheitu.com; TPD www.tpinstorg; SBCN www.sbcindustry.org; ICO www.csafe.org

Load Duration = 0% Member forces may be increased for Duration of Load

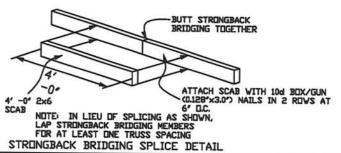
			Maximur	m Member	Axial Fo	rce
Member	Size	L	SPF-C	HF	DF-L	SYP
Web □nly	2x4	12"	620#	635#	730#	800#
Web □nly	2×4	18*	975#	1055#	1295#	1415#
Web or Chord	2×4	244	975#	1055#	1495#	1745#
Web or Chord	2×6	24"	1465#	1585#	2245#	2620#
Web or Chord	2×4	201	1910#	1960#	2315#	2555#
Web or Chord	2×6	30*	2230#	2365#	3125#	3575#
Web or Chord	2×4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6	36	3535#	3635#	4295#	4745#
Web or Chord	2×4	424	2975#	3045#	3505#	3835#
Web or Chord	2×6	42*	4395#	4500#	5225#	5725#
Web or Chord	2×4	404	3460#	3540#	4070#	4445#
Web or Chord	2×6	48*	5165#	5280#	6095#	6660#

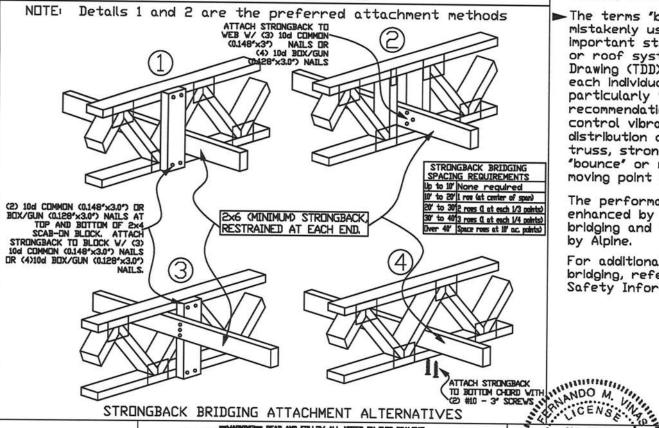






STRONGBACK BRIDGING RECOMMENDATIONS





- ►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),

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

INVARINGE READ AND FOLLOW ALL NOTES ON THIS DRAWING INCOMPRENENT THE DRAWING TO ALL CONTRACTORS DICLIDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and folion the latest estion of RCSI (Building Conponent Safety Information, by IPI and SECN for safety information, by IPI and SECN for safety information, by IPI and SECN for safety information in the safety information of the safety information in the safety in

Apine, a division of ITV Bulding Conponents Europe Inc. shall not be responsible for any deviation fi this drawing, any failure to build the trues in conformance with ANSI/IFI I, or for handling, shipping, Installation is bracing of trusses.

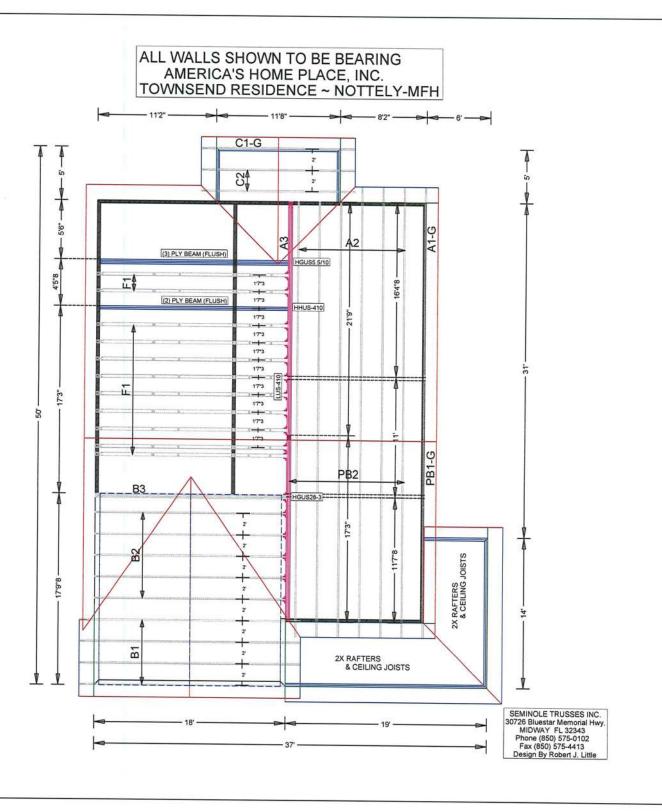
A seel on this drawing or cover page listing this drawing, indicates acceptance of professional empheering responsibility solely for the design shows. The suitability ond use of this drawing for any structure is the responsibility of the Bulding Besigner per ANSI/IFI I Sec.2. For more information see this job's general notes page and these web sites: ALPING www.alpinettu.com TPD www.tpinst.org; SSCA www.sbcindustry.org; ICO www.lccanfe.org

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DUF

ST PSF REF STRONGBACK DATE 10/01/14 DRWG STRBRIBR1014 PSF TOT. LD. **PSF** DUR. FAC. 1.00 SPACING



Job Name: TOWNSEND RESIDENCE Customer: America's Home Place Designer: ROBERT J. LITTLE PlanName: NOTTELY-MFH Created: 07-27-2021 SemRefff: B54135b

> JOB NO: B54135b

PAGE NO:

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

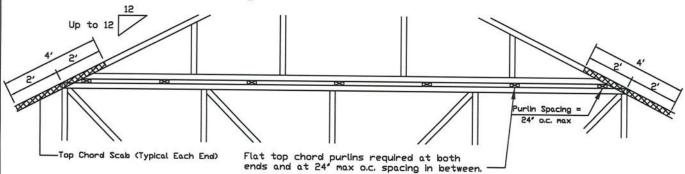
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

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

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

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



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nalls (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 nalls (0.128'x3') at 4' o.c.

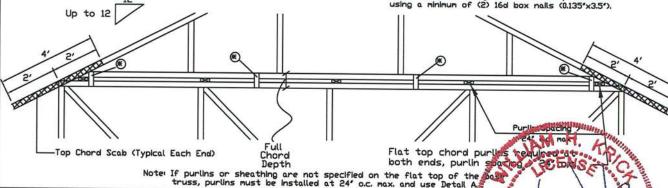
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135'x3.5').

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

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' nalls 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') nalls per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

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

28PB Wave Plggyback Plate

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



13723 Riverport Drive Maryland Heights, MO 63043 mivariding me read and follow all notes on this drawing madeportant me furnish this drawing to all contractors discluding the installers.

Trusses require extrene care in fabricating, handling, shipping, installing and bracing. Refer tolong follow the latest edition of BCSI (Building Conponent 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 bot on cho shall have a properly attached rigid celling. Locations shown for permanent lateral restrict for the shall have bracing installed per BCSI sections B3, B7 or BiO, as applicable. Apply plates to each of truss and position as shown above and on the Joint Betalls, unless noted otherwise.

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

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Bullding Designer per ANSI/TPI 1 Sec.2.

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



REF **PIGGYBACK** DATE 01/02/2018

DRWG PB160160118

SPACING 24.0"

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

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

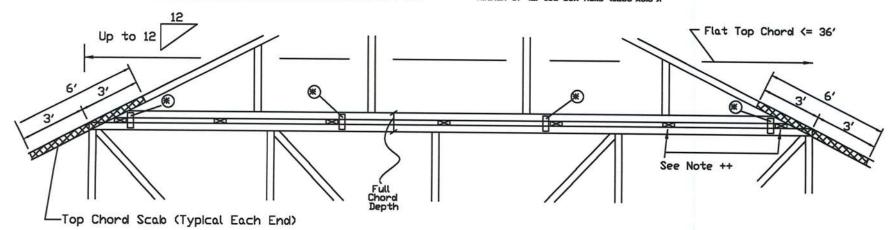
Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

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.

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

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nalls (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.

++ Flat top chord purlins required at both ends and at a maximum of 24" intervals unless otherwise noted on base truss design drawing. 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 6' o.c. with (4) 0.120'x1.375' nalls into cap bottom chord and (4) in base truss top chord. Trulox plates 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.				
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 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss to back faces, 4' o.c. frant to back faces,				



514 Earth City Expressway Suite 242 Earth City, MO 63045

Trusses require extreme care in Palaricative, handling, shipping, bratilling and bracking. Refer to and folior the latest edition of BCSI Chalding Component Safety Information, by TPI and SCCO for scients practices prior to performing these functions. Installars shall provide temporaries and provide temporaries are proposed to the property of the property attached structural sheathing and provide shall have a property attached prior to the provide shall have a property attached structural sheathing and provide shall have bracking installed per BCSI sections B3, B7 or BiO, as applicable. Apply plates to each first shall have bracking installed per BCSI sections B3, B7 or BiO, as applicable. Apply plates to each first shall have bracking installed per BCSI sections B3, B7 or BiO, as applicable. Apply plates to each first shall have bracking installed per BCSI sections Group inc. shall not be responsible for any deviation of this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation a bracking of trusses. A seel on this drawing or cover page listing this drawing, indicates acceptance of professional amphoening responsibility solely for the dealing installation the surface of professional semplearing responsibility solely for the dealing shown. The surfacility and use of this drawing for any structure is the responsibility of the Building Besigner per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPIND wew.alphetta.com TPD www.tpinst.org; SBCA: www.sbcindustry.org; ICC wew.iccsafe.or



REF **PIGGYBACK** DATE 01/02/2018

DRWG PB180160118

SPACING 24.0"

Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

- (B) = Damaged area, 12' max length of damaged section
- (L) = Minimum nailing distance on each side of damaged area (B)
- (S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2)(L) + (B)

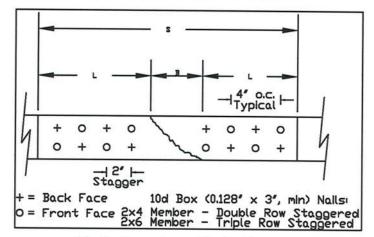
Scab member length (S) must be within the broken panel. Nall into 2x4 members using two (2) rows at 4° o.c., rows staggered. Nall into 2x6 members using three (3) rows at 4° o.c., rows staggered. Nail using 10d box or gun nails (0.128'x3', min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.



Nail Spacing Detail

Trusses require extreme care in febricating, handling, shipole, herstelling and bracing. Refer folios the latest edition of BCSI Children, handling, shipole, herstelling and bracing. Refer folios the latest edition of BCSI Children, handling, shipole, herstelling and bracing. Refer folios the latest edition of BCSI Children. Installers shall provide temporary and SDCM foot practices prior to performing these functions. Installers shall provide temporary attached ring per Unless noted otherwise, top, chord shall have property attached structural sheather and position as shown above and on the John Strome for personnent lateral restraint shall have bracing installed per BCSI sections B3, B7 or BIO, as applicable. Apply plates to each free to drawings 160A-Z for standard plate positions.

Agine, a division of TIV Bilding Components Group Inc. shall not be responsible for any device this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shi installation a bracing of trusses.

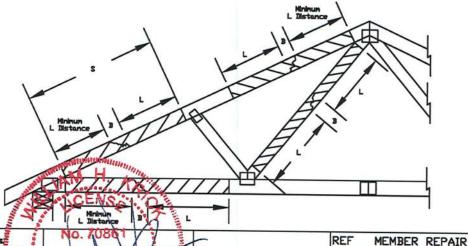
A seal on this drawing or cover page listing this drawing, indicates acceptance of profession engineering responsibility solely for the dealing issues.

A seal on this drawing or cover page listing this drawing, indicates acceptance of profession engineering responsibility solely for the dealing shown. The suitability and use of this drawing for any structure is the responsibility of the Building Besigner per AMSI/TPI 1 Sec2.

For nore information see this joir's general notes page and these web sites:
ALPING www.lpinetu.com; TFD www.tpineturg; SSCA www.sbcindustry.org; ICO www.lccsafea

Load Duration = 0% Member forces may be increased for Duration of Load

			Maximur	n Member	Axial Fo	orce
Member	Size	L	SPF-C	HF	DF-L	SYP
Web □nly	2x4	12"	620#	635#	730#	800#
Web □nly	2×4	18*	975#	1055#	1295#	1415#
Web or Chord	2x4	244	975#	1055#	1495#	1745#
Web or Chord	2×6	24"	1465#	1585#	2245#	2620#
Web or Chord	2×4	201	1910#	1960#	2315#	2555#
Web or Chord	2×6	30*	2230#	2365#	3125#	3575#
Web or Chord	2×4	36*	2470#	2530#	2930#	3210#
Web or Chord	2x6	36	3535#	3635#	4295#	4745#
Web or Chord	2×4	424	2975#	3045#	3505#	3835#
Web or Chord	2×6	42*	4395#	4500#	5225#	5725#
Web or Chord	2×4	404	3460#	3540#	4070#	4445#
Web or Chord	2×6	48*	5165#	5280#	6095#	6660#



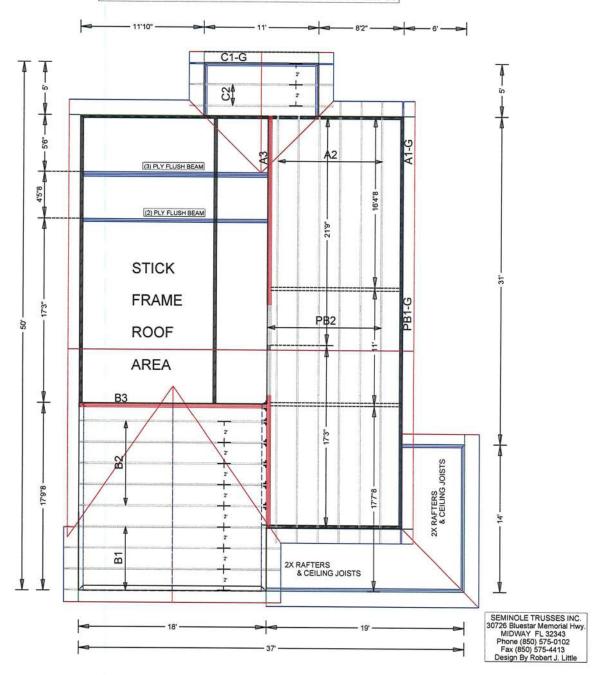
SPACING

24.0" MAX

DATE 10/01/14 DRWG REPCHRD1014



ALL WALLS SHOWN TO BE BEARING AMERICA'S HOME PLACE, INC. TOWNSEND RESIDENCE ~ NOTTELY-MFH



Job Name: TOWNSEND RESIDENCE Customer: America's Home Place Designer: ROBERT J. LITTLE PlanName: NOTTELY-MFH Created: 07-27-2021

JOB NO: B54135a

PAGE NO:

1 OF 1

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



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



Site Information:	Page 1:	
Customer: Seminole Trusses, Inc.	Job Number: B54135a	
Job Description: TOWNSEND RESIDENCE	1	
Address: SW DON COOK WAY, FORT WHITE, FL 32038		

Job Engineering Criteria:					
Design Code: FBC 7th Ed. 2020 Res	IntelliVIEW Version: 20.02.00A JRef #: 1X7f8570003				
Wind Standard: ASCE 7-16 Wind Speed (mph): 130 Building Type: Closed	Design Loading (psf): 37.00				

This package contains general notes pages, 10 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss	1000
1	207.21.1553.18930	A1-G 39' Gable	
3	207.21.1555.52220	A3 39' Common Girder	
5	207.21.1028.57052	B2 18' Common	
7	207.21.1553.30800	C1-G 11' Gable	
9	207.21.1553.50937	PB1-G 8'4" Gable	
11	A14015ENC160118		
13	BRCLBSUB0119	13311334113413	
15	PB160160118		
17	REPCHRD1014		

Item	Drawing Number	Truss	
2	207.21.1553.22070	A2 39' Common	
4	207.21.1028.57046	B1 18' Common	
6	207.21.1028.57050	B3 18' Flat Girder	
8	207.21.1553.32510	C2 11' Common	
10	207.21.1553.53993	PB2 8'4" Common	
12	A14030ENC160118		
14	GBLLETIN0118		
16	PB180160118		

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.

indicated location (Loc).

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

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.

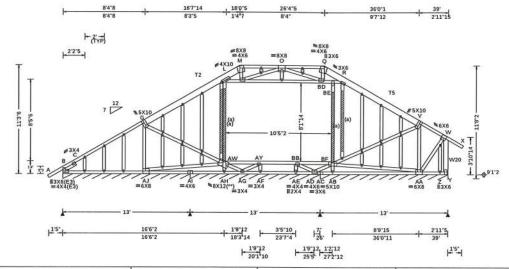
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.

SEON: 68800 GABL Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL TOWNSEND RESIDENCE Qty: 1 DrwNo: 207.21.1553.18930 Truss Label: A1-G 39' Gable AK / WHK 07/26/2021



BCLL: 0.00 BCDL: 10.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 " Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.90 ft Loc. from endwall: not in 10.00 ft GCpi: 0.18 Lu: NA Cs: NA Snow Duration: NA HORZ(LL): -0.010 T HORZ(TL): 0.019 T Creep Factor: 2.0 Max TC CSI: 0.322 Max BC CSI: 0.413 Max Web CSI: 0.390 FT/RT:20(0)/10(0) Plate Type(s):	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
NCBCLL: 10.00 Soffit: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 " C&C Dist a: 3.90 ft Loc. from endwall: not in 10.00 ft GCpi: 0.18 C&C Dist a: 0.00 CCP D	TCDL: 7.00 BCLL: 0.00 BCDL: 10.00	Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.029 T 999 360 VERT(CL): 0.055 T 999 240 HORZ(LL): -0.010 T -
	Soffit: 0.00 Load Duration: 1.25	TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.90 ft Loc. from endwall: not in 10.00 ft GCpi: 0.18	FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0)	Max TC CSI: 0.322 Max BC CSI: 0.413

Lumber

Top chord: 2x4 SP #1; T2,T5 2x8 SP SS Dense; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; W20 2x6 SP #1; Lt Slider: 2x4 SP #3; block length = 1.500'

Bracing

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

All plates are 1.5X3 except as noted.

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

Loading

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

Attic room loading from 16-7-14 to 27-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

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

Additional Notes

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

Wind

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

Right end vertical exposed to wind pressure. Deflection meets L/360.

Wind loading based on both gable and hip roof types.

	Gravity		Non-Gravity		
Loc R	/ R-	/Rh	/ Rw	/U	/RL
B* 100	/-	1-	/53	14	/24
AI* 133	1-	1-	/30	17	1-
AC*137	1-	1-	/66	15	1-
AC	/-201				
Z	/-109				
Wind re	actions b	ased on	MWFRS		
B Brg	Width =	156	Min Re	q = -	
Al Brg	Width =	156	Min Re	q = -	
AC Brg	Width =	156	Min Re	q = -	
Bearing	s B, Al, 8	AC are	a rigid sur	face.	
Membe	s not list	ed have	forces les	s than	375#
Maximu	ım Top (Chord F	orces Per	Ply (lb	s)
Chords	Tens.Co	omp.	Chords	Tens.	Comp.
G-L	299	- 462	R-V	248	- 457
L-M	241	- 456			

Maximum	Web	Forces	Per	Plv	(lbs)

Webs	Tens.0	Comp.	Webs	Tens.	Comp.
G-AJ	119	- 429	BE-BF	153	- 445
AW-AH	170	- 613	BF-AB	164	- 579
AY-AF	25	- 386	AA- V	161	- 460
O-BD	255	- 571	W - Y	141	- 428
AE-BB	9	- 392			



07/26/2021

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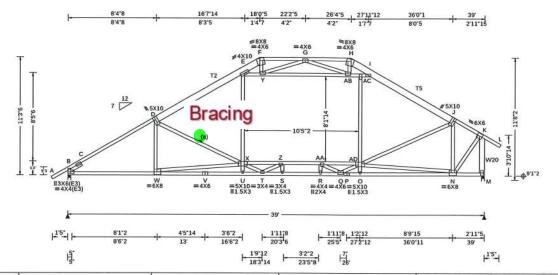
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org



6750 Forum Drive Suite 305 Orlando FL, 32821 SEON: 68781 COMN Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL Qty: 6 TOWNSEND RESIDENCE DrwNo: 207.21.1553.22070 Truss Label: A2 39' Common / WHK 07/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.90 ft Loc. from endwall: not in 9.00 ft GCDi: 0.18	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): 0.257 U 999 360 VERT(CL): 0.534 U 877 240 HORZ(LL): 0.120 T -		
Des Ld: 37.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "		Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.255 T Creep Factor: 2.0 Max TC CSI: 0.912 Max BC CSI: 0.950 Max Web CSI: 0.859		
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20		
Lumber					

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / RL /R /Rh /Rw 1U В 2346 /-/853 /286 2486 /-/798 Wind reactions based on MWFRS Brg Width = 3.5 Min Reg = 2.8 Brg Width = 3.5 Min Req = 2.9 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp B-C 389 - 3831 G-H 153 - 1157 C-D 289 - 3750 H-1 174 - 1371 D-E 317 - 3177 1 - J 304 - 3066 E-F 244 - 1515 J-K 189 - 1531

223 - 1520

Chords Tens.Comp.

3148 - 284

2486 - 224

2486 - 224

2512 - 227

2722

Maximum Bot Chord Forces Per Ply (lbs)

- 57

Chords

S-R

R-Q Q-P

P-0

Tens. Comp.

-50

- 52

- 569

- 569

- 508

2688

2642

384

384

407

F-G

B-W

W-V

V-U

U - T

T-S

Top chord: 2x4 SP #1; T2,T5 2x8 SP SS Dense; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; W20 2x6 SP #1; Lt Slider: 2x4 SP #3; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

All plates are 3X6 except as noted.

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

Attic room loading from 16-7-14 to 27-1-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

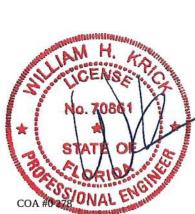
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads based on MWFRS with additional C&C

Right end vertical exposed to wind pressure. Deflection meets L/360.

Wind loading based on both gable and hip roof types.



Maximum Web Forces Per Ply (lbs) Tens.Comp. Webs Webs Tens. Comp. D-X 104 - 703 AA-AD 1499 - 145 W-X 1102 -71 Q-AD 1606 -71 E-X 1013 0 AB- H 931 - 64 E-Y 151 - 1287 AB-AC 221 -1710 X - T 779 - 186 AC-AD 736 0 - 488 -1629 X - Z 256 AC-I 238 AD- O 458 - 95 396 0 - 1086 1521 Y-AB 0 AD-N - 135 337 -532 AD-J 1513 T-Z -91 G-AB 251 - 507 - 1571 N-J 186 R-AA 2020 425 -17 N-K - 124 AA- Q 81 - 1919 K-M 216 -2480

07/26/2021

*WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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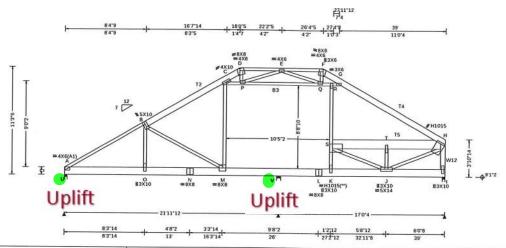
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Suite 305 Orlando FL, 32821



SEON: 68816 COMN Ply: 3 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL Qty: 1 TOWNSEND RESIDENCE DrwNo: 207.21.1555.52220 Truss Label: A3 39' Common Girder / WHK 07/26/2021

3 Complete Trusses Required



Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCII: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 24.0 "

Lumber

Nailnote

T5 2x12 SP #2;

to avoid splitting.

Special Loads

Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.12 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.90 ft Loc, from endwall: not in 9.00 ft

GCni: 0.18

Wind Duration: 1.60

Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;

Webs: 2x4 SP #3; W12 2x6 SP #1;

Nail Schedule:0.128"x3", min. nails

Top Chord: 1 Row @ 4.50" o.c.

Bot Chord: 1 Row @10.75" o.c. Webs : 1 Row @ 4" o.c.

Bot chord: 2x10 SP SS Dense; B3 2x4 SP SS Dense;

Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Building Code:** FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No

Snow Criteria (Pg,Pf in PSF)

Ct: NA CAT: NA

Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.089 F 999 360 VERT(CL): 0.160 F 999 240 HORZ(LL): -0.037 K HORZ(TL): 0.067 K Creep Factor: 2.0 Max TC CSI: 0.354 Max BC CSI: 0.471 Max Web CSI: 0.893 VIEW Ver: 20.02.00A.1020.20

▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /R /Rh /Rw /U / RL U 4248 /616 /237 3579 /416 500 /0 6323 /-1592 /489 Wind reactions based on MWFRS Brg Width = 3.5 Min Req = 1.5 Brg Width = 5.5 Min Req = 1.5 Brg Width = 3.5 Min Req = 2.1 Bearings U, V, & 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.

Pa: NA

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

FT/RT:20(0)/10(0)

Plate Type(s):

Purlins

WAVE, HS

Wind loads based on MWFRS.

Right end vertical exposed to wind pressure. Deflection meets L/360.

Wind loading based on both gable and hip roof types.

It is the responsibility of the building designer and truss fabricator to review this dwg prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans, specifications and fabricator's truss layout.

A-B 378 - 2392 E-F 32 - 939 B-C 190 - 1766 F-G 56 - 993 C-D 98 - 637 G-H 183 - 1785 102 - 570 D-E

Chords Tens.Comp. Chords Tens. Comp. A - O 2041 - 319 2995 - 302 0 - N 2046 - 320 1497 - 151 N-M 2046 - 320 K-J 1497 - 151

Maximum Bot Chord Forces Per Ply (lbs)

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - O 545 - 149 R-S 749 - 59 B - M 201 - 682 R-G 149 -617 M-C 619 -63 S-K 138 - 423 C-P 63 - 1102 J-H 1883 - 115 P-Q 71 - 730 T-J 65 - 784 Q-F 460 - 54 H-1 169 2070

149 -711

07/26/2021

-(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) 56 plf at 0.00 to 56 plf at 39.00 PLT: From 20 plf at 16.65 to 20 plf at 27.08 16.65 to 100 plf at PLT: From 100 plf at 27.08 20 plf at 0.00 to 20 plf at 39.00 PLT: 2239 lb Conc. Load at (27.40,12.89) PLT: 746 lb Conc. Load at (28.94,12.89), (30.94,12.89)

Repeat nailing as each layer is applied. Use equal

spacing between rows and stagger nails in each row

(32.94,12.89), (34.94,12.89), (36.94,12.89)

BC: 672 lb Conc. Load at 5.73 BC: 223 lb Conc. Load at 6.91, 8.51,11.70,13.30 14.90,16.50,18.10,19.70,21.30,22.90,23.60

BC: 448 lb Conc. Load at 10.10 BC: 174 lb Conc. Load at 16.65.27.08

Plating Notes

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

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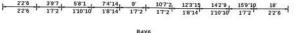
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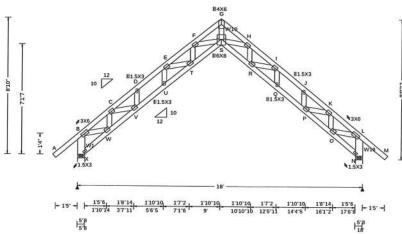
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SEQN: 57689 / COMN Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL Qty: 4 TOWNSEND RESIDENCE DrwNo: 207.21.1028.57046 Truss Label: B1 18' Common SSB / DF 07/26/2021





Loading Criteria (psf)	Wind Criteria Wind Std: ASCE 7-16	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/#
TCDL: 7.00 BCLL: 0.00 BCDL: 10.00	Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 16.42 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCDi: 0.18	Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	VERT(LL): 0.223 S 919 360 VERT(CL): 0.446 S 459 240 HORZ(LL): 0.403 N
Des Ld: 37.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "		Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.806 N Creep Factor: 2.0 Max TC CSI: 0.383 Max BC CSI: 0.639 Max Web CSI: 0.533
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rw /U /RL X 843 /488 /24 /205 N 843 /488 Wind reactions based on MWFRS Brg Width = 5.5 Min Req = 1.5 Brg Width = 5.5 Min Req = 1.5 Bearings X & 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. B-C 58 - 863 G-H 69 - 2841

C-D 59 - 2005 H-1 0 - 2700 D-E 87 - 2190 1-J 15 -2190 E-F 78 - 2700 J-K 0 - 2005 F-G 52 - 2841 K-L 74 - 863

W10 2x4 SP #1; **Plating Notes**

Top chord: 2x4 SP #1;

All plates are 3X4 except as noted.

Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; W1,W19 2x6 SP #1;

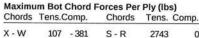
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.



	10.000	T(20000) E00	000000000000000000000000000000000000000	an section of	
X - W	107	- 381	S-R	2743	0
W - V	947	- 263	R-Q	2123	0
V - U	1936	- 252	Q-P	1936	0
U - T	2123	- 244	P-0	947	0
T - S	2743	- 198	O - N	121	- 381

maximum web Forces Per Ply (lbs)					
Webs	Tens.0	Comp.	Webs	Tens.	Comp
B - X	174	- 631	R-I	568	- 79
B - W	890	- 15	P-J	7	- 397
W-C	27	- 729	P-K	916	(
C-V	916	0	K-O	9	- 729
D-V	24	- 307	0-1	800	- 21

N-L

0

E-T

568

3497



07/26/2021

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-631

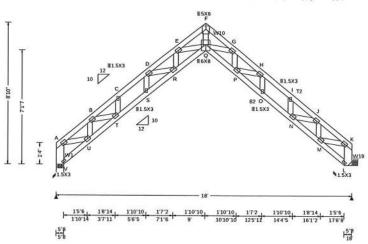
6750 Forum Drive Suite 305 Orlando FL, 32821 SEON: 57692 / FROM: RJL

COMN

Ply: 1 Qty: 5 Job Number: B54135a TOWNSEND RESIDENCE Truss Label: B2 18' Common Cust: R 857 JRef: 1X7f8570003 DrwNo: 207.21.1028.57052 SSB / DF 07/26/2021

T12 /





	Loading	Criteria (psf)	Win
	TCLL:	20.00	Win
١	TCDL:	7.00	Spe
ı	BCLL:	0.00	Enc
ı	BCDL:	10.00	Risk
ı	Des Ld:	151 PARTON.	EXP
ı		57 W. 1970 TO 19	Mea
١	NCBCLL:	10.00	TCD
١	Soffit:	0.00	BCD
ı	Load Dura	ation: 1.25	MW
١	Spacing:	24.0 "	C&C
ı			1 00

Loading Criteria (psf) Wind Criteria d Std: ASCE 7-16 ed: 130 mph losure: Closed k Category: II P: B Kzt: NA an Height: 17.08 ft DL: 4.2 psf DL: 5.2 psf FRS Parallel Dist: 0 to h/2 C Dist a: 3.00 ft oc. from endwall: Any GCpi: 0.18

Wind Duration: 1.60

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

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

DefI/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.207 Q 989 360 VERT(CL): 0.414 Q 495 240 HORZ(LL): 0.375 L HORZ(TL): 0.777 L Creep Factor: 2.0 Max TC CSI: 0.390 Max BC CSI: 0.658 Max Web CSI: 0.552

VIEW Ver: 20.02.00A.1020.20

▲ Maximum Reactions (lbs) Gravity

Non-Gravity /Rh /Rw /U /RL 746 /408 /19 /155 746 /408 /19 Wind reactions based on MWFRS

Brg Width = 5.5 Min Reg = 1.5 Brg Width = -Min Reg = -Bearing V is a rigid surface.

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords

		0110100	101101	Oump
A - B	170 - 956	F-G	0	- 2942
B - C	246 - 2112	G-H	139	- 2801
C-D	287 - 2292	H-I	274	- 2292
D-E	154 - 2803	1 - J	234	- 2111
E-F	0 - 2943	J-K	166	- 956

Top chord: 2x4 SP #1; T2 2x4 SP SS Dense; Bot chord: 2x4 SP #1; B2 2x4 SP SS Dense; Webs: 2x4 SP #3; W1,W19 2x6 SP #1; W10 2x4 SP #1;

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Wind loads based on MWFRS with additional C&C

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	rens.Comp.		Choras	Tens. Comp.	
U - T	1061	- 173	Q-P	2842	0
T-S	2038	- 158	P-0	2226	- 101
S-R	2226	- 134	0 - N	2037	- 127
R-Q	2845	0	N - M	1060	- 132

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
A-V	110	- 557	P-H	566	- 31
A - U	929	- 142	N - I	44	- 389
U-B	111	- 759	N-J	908	0
B - T	908	0	J - M	107	- 760
C-T	46	- 389	M - K	930	- 139
D-R	568	0	L-K	107	- 556
F-Q	3623	0			



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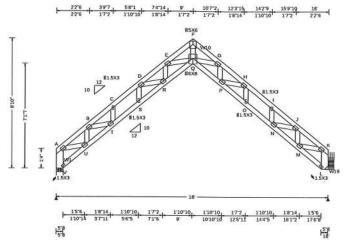
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcindustry.com; ICC: iccsafe.org; AWC: awc.org



Orlando FL, 32821

SEQN: 57729 / COMN Plv: 3 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL Qty: 1 TOWNSEND RESIDENCE DrwNo: 207.21.1028.57050 Truss Label: B3 18' Flat Girder SSB / DF 07/26/2021

3 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 72.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 17.08 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parrallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 6.50 ft GCDi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s):	PP Deflection in loc L/defl L/# VERT(LL): 0.192 Q 999 360 VERT(CL): 0.383 Q 535 240 HORZ(LL): 0.346 L HORZ(TL): 0.718 L Creep Factor: 2.0 Max TC CSI: 0.285 Max BC CSI: 0.356 Max Web CSI: 0.551
	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rw / RL /Rh / R-/U 2239 /-/1223 /55 /465 2239 /1223 /55 Wind reactions based on MWFRS Brg Width = 5.5 Min Reg = 1.5 Brg Width = -Min Req = -Bearing V 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 45 - 956 F-G 0 - 2940 B-C 3 - 2111 G-H 0 -2801 C-D 18 - 2292 H-1 8 - 2292 1-J

D-E

E-F

Nailnote

W10 2x4 SP #1:

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

Top chord: 2x4 SP SS Dense; Bot chord: 2x4 SP SS Dense; Webs: 2x4 SP #3; W1,W19 2x6 SP #1;

to avoid splitting. **Plating Notes**

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

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

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

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

Shim all supports to solid bearing.



0 - 2801

0 - 2940

Chords			Chords	Tens. C	omp.
U - T	1060	- 173	Q-P	2841	0
T - S	2037	- 98	P - O	2226	0
S-R	2226	- 74	O - N	2037	0
R-O	2841	0	N - M	1060	- 9

J-K

0 - 2111

42 - 956

Maximum Web Forces Per Ply (lbs)

Webs	Tens.0	Comp.	Webs	Tens.	Comp.
A - V	32	- 556	P-H	566	- 31
A - U	930	- 23	N - I	1	- 389
U-B	19	- 760	N-J	908	0
B - T	908	0	J - M	16	- 760
C - T	3	- 389	M - K	930	- 21
D-R	566	0	L-K	31	- 556
F-Q	3619	0			

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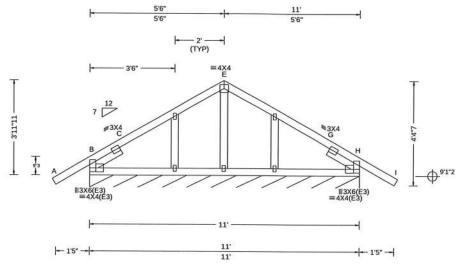
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SEON: 68776 GABL Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL TOWNSEND RESIDENCE Qty: 1 DrwNo: 207.21.1553.30800 Truss Label: C1-G 11' Gable / WHK 07/26/2021



Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria TCLL: 20.00 Wind Std: ASCE 7-16 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Speed: 130 mph TCDL: 7.00 Pf: NA Ce: NA VERT(LL): 0.004 G 999 360 Enclosure: Closed BCII: 0.00 Lu: NA Cs: NA VERT(CL): 0.008 G 999 240 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): -0.003 G EXP: B Kzt: NA 37.00 HORZ(TL): 0.006 G Des Ld: Mean Height: 15.00 ft NCBCLL: 10.00 **Building Code:** Creep Factor: 2.0 TCDL: 4.2 psf FBC 7th Ed. 2020 Res. Soffit: Max TC CSI: 0.154 0.00 BCDL: 5.2 psf TPI Std: 2014 Load Duration: 1.00 Max BC CSI: 0.070 MWFRS Parallel Dist: 0 to h/2 Spacing: 24.0 " C&C Dist a: 3.00 ft Rep Fac: No Max Web CSI: 0.044 FT/RT:20(0)/10(0) Loc. from endwall: Any Plate Type(s): GCpi: 0.18 Wind Duration: 1.60 VIEW Ver: 20.02.00A.1020.20 WAVE

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / R-/Rh /RL /Rw /U B* 102 1-145 19 Wind reactions based on MWFRS Brg Width = 132 Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

Lt Slider: 2x4 SP #3; block length = 1.500' Rt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

All plates are 1.5X3 except as noted.

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

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



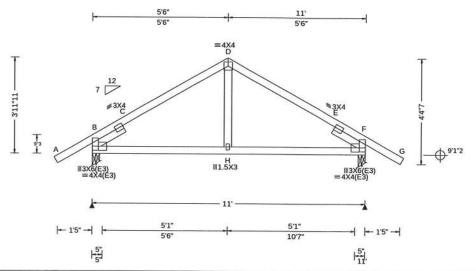
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SEQN: 68772 COMN Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL Qty: 2 TOWNSEND RESIDENCE DrwNo: 207.21.1553.32510 Truss Label: C2 11' Common AK / WHK 07/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (III	os)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 0.00	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res.	PP Deflection in loc L/defl L/# VERT(LL): 0.017 C 999 360 VERT(CL): 0.031 C 999 240 HORZ(LL): 0.012 C HORZ(TL): 0.021 C Creep Factor: 2.0 Max TC CSI: 0.271	Gravity Loc R+ /R- /Rh	Non-Gravity / Rw / U / RL /276 /35 /87 /276 /35 /- IWFRS Min Req = 1.5 Min Req = 1.5
Load Duration: 1.00 Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max BC CSI: 0.261 Max Web CSI: 0.154 VIEW Ver: 20.02.00A.1020.20	Members not listed have for Maximum Top Chord For Chords Tens.Comp. C	rces less than 375#

Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1: Webs: 2x4 SP #3;

Lt Slider: 2x4 SP #3; block length = 1.500' Rt Slider: 2x4 SP #3; block length = 1.500'

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

Wind loading based on both gable and hip roof types.



07/26/2021

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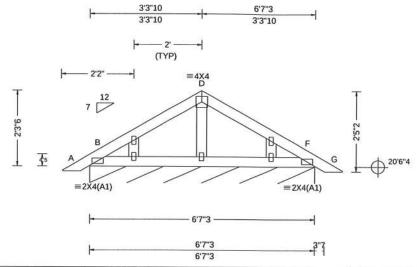
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SEQN: 68825 GABL Job Number: B54135a Ply: 1 Cust: R 857 JRef: 1X7f8570003 FROM: RJI Qty: 1 TOWNSEND RESIDENCE DrwNo: 207.21.1553.50937 Truss Label: PB1-G 8'4" Gable / WHK AK 07/26/2021



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffii: 0.00 Load Duration: 1.00 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.60 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 10.00 ft GCpi: 0.18	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 360 VERT(CL): 0.000 D 999 240 HORZ(LL): -0.000 C HORZ(TL): 0.000 C Creep Factor: 2.0 Max TC CSI: 0.061 Max BC CSI: 0.024 Max Web CSI: 0.035
Lumbar	Wind Duration: 1.60	WAVE	VIEW Ver: 20.02.00A.1020.20

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ / Rh / Rw / RL / R-/U B* 91 143 /9 /25 Wind reactions based on MWFRS Brg Width = 79.2 Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

Plating Notes

All plates are 1.5X3 except as noted.

Loading

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

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

Wind loading based on both gable and hip roof types.

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

See Detail PB160101014 for piggyback details.



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For more information see these web sites: Alpine, alpineity com. TPI: Injust org. SRCA: sheightest programments.



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SEON: 68822 GABL Ply: 1 Job Number: B54135a Cust: R 857 JRef: 1X7f8570003 FROM: RJL TOWNSEND RESIDENCE Qty: 9 DrwNo: 207.21.1553.53993 Truss Label: PB2 8'4" Common / WHK 07/26/2021 3'3"10 6'7"3 3'3"10 3'3"10 ≡4X4 C D III1.5X3 6'7"3 3'3"10 3'3"10 3'3"10 6'7"3 Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs), or *=PLF TCLL: 20.00 Wind Std: ASCE 7-16 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity Non-Gravity Speed: 130 mph Loc R+ /R-/Rh /Rw /U /RL TCDL: 7.00 Pf: NA Ce: NA VERT(LL): 0.001 F 999 360 Enclosure: Closed 0.00 BCII: Lu: NA Cs: NA VERT(CL): 0.002 F 999 240 B* 86 140 /8 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): -0.001 F Wind reactions based on MWFRS EXP: B Kzt: NA 37.00 HORZ(TL): 0.002 F Brg Width = 79.2 Des Ld: Min Reg = -Mean Height: 21.60 ft Bearing B is a rigid surface. NCBCLL: 10.00 Building Code: Creep Factor: 2.0 TCDL: 4.2 psf FBC 7th Ed. 2020 Res. Members not listed have forces less than 375# Soffit: Max TC CSI: 0.118 0.00 BCDL: 5.2 psf TPI Std: 2014 Load Duration: 1.00 Max BC CSI: 0.099 MWFRS Parallel Dist: h/2 to h

Lumber

Spacing: 24.0 "

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;

Plating Notes

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

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

C&C Dist a: 3.00 ft

Wind Duration: 1.60

Loc. from endwall: not in 9.00 ft GCpi: 0.18

Wind loading based on both gable and hip roof types.

Additional Notes

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

See Detail PB160101014 for piggyback details.



Max Web CSI: 0.014

VIEW Ver: 20.02.00A.1020.20

Rep Fac: No

Plate Type(s):

WAVE

FT/RT:20(0)/10(0)

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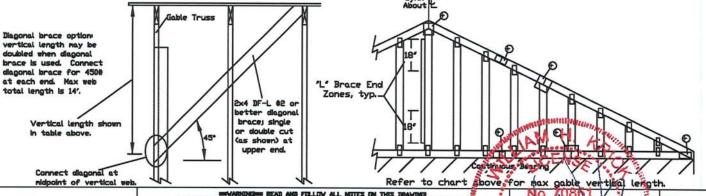


Gable Stud Reinforcement Detail

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

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

					ur	1 TOO MPH	wind Spee	d, 12. Med	n neight, i	artially E	nclosed, Ex	xposure D,	KZt = 1.00	J
		2x4 Vertico	Brace	No	(1) 1x4 °L	* Brace #	(1) 2x4 ⁴ L	. Brace #	(2) 2x4 "L	. Brace ma	(1) 2x6 (L	" Brace #	(2) 2x6 °L	Brace mm
_		Species		Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
구		CDE	#1 / #2	4' 3'	7' 3"	7' 7"	8' 7"	8' 11'	10' 3'	10' 8'	13' 6'	14' 0"	14' 0"	14' 0"
1.0	1 1 7	SPF	#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10'	10' 1"	10' 6"	13' 4"	13' 10"	14' 0'	14' 0'
ng	ū	HF	Stud	4' 1"	6' 7"	7' 0"	8' 6'	8' 10'	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
>	0	111	Standard	4' 1"	5′ 8′	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10'	12' 8'	14' 0"	14' 0'
اه	35	00	#1	4' 6"	7' 4"	7' 8'	8' 8'	9' 0"	10' 4"	10' 9"	13' 8'	14' 0"	14' 0'	14' 0"
—	*	SP	#2	4' 3'	7' 3'	7' 7'	8' 7"	8' 11"	10' 3'	10' 8"	13' 6"	14' 0"	14' 0'	14' 0"
	4	DE1	#3	4' 2'	6' 0"	6' 4"	7' 11"	8' 6'	10' 2"	10' 7"	12' 5"	13' 4"	14' 0'	14' 0'
ਰ	N	DFL	Stud	4' 2'	6' 0'	6' 4"	7' 11"	8′ 6′	10' 2'	10' 7"	12' 5'	13' 4"	14' 0"	14' 0'
			Standard	4' 0"	5′ 3′	5′ 7′	7' 0'	7' 6'	9' 6"	10' 2"	11' 0"	11' 10"	14' 0'	14' 0"
片		SPF	#1 / #2	4' 11"	8' 4"	8' 8'	9' 10"	10′ 3″	11' 8'	12' 2"	14' 0"	14' 0"	14' 0'	14' 0"
1+			#3	4' 8'	8′ 1″	8' 8"	9' 8'	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
1 5	O.	HF	Stud	4' 8'	8′ 1′	8' 6'	9' 8"	10′ 1′	11' 7"	12' 1'	14' 0"	14' 0"	14' 0'	14' 0"
l o	0	1.11	Standard	4' 8"	6' 11'	7' 5'	9′ 3′	9' 11'	11' 7"	12' 1"	14' 0"	14' 0"	14' 0'	14' 0'
15		CD	#1	5′ 1′	8′ 5′	8' 9'	9' 11"	10' 4'	11' 10"	12' 4"	14' 0"	14' 0'	14' 0'	14' 0"
_		SP	#2	4' 11"	8' 4"	8' 8'	9' 10'	10' 3'	11' 8'	12' 2'	14' 0"	14' 0"	14' 0"	14' 0'
	9	חבו	#3	4' 9'	7' 4"	7' 9'	9' 9'	10' 2'	11' 8'	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
0	\leftarrow	DFL	Stud	4' 9'	7' 4"	7' 9'	9' 9'	10' 2'	11' 8'	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
교	_		Standard	4' 8"	6' 5'	6' 10"	8' 7"	9' 2'	11' 7"	12' 1'	13' 6"	14' 0"	14' 0"	14' 0"
1-4		SPF	#1 / #2	5′ 5′ 5′ 1′	9' 2'	9' 6'	10' 10'	11′ 3′	11' 8'	13′ 5′	14' 0'	14' 0'	14' 0'	14' 0'
Ga	1.7		#3	100000000000000000000000000000000000000	9' 0"	9' 4"	10' 8'	11' 1'	12' 9'	13′ 3′	14' 0'	14' 0"	14' 0"	14' 0"
10	ū	HF	Stud	5′ 1′	9' 0"	9' 4"	10' 8"	11′ 1″	12' 9"	13′ 3′	14' 0'	14' 0"	14' 0"	14' 0"
	0		Standard	5′ 1′	8' 0'	8' 6"	10' 8'	11' 1'	12' 9'	13′ 3′	14' 0"	14' 0"	14' 0"	14' 0"
l ×	-	CD	#1	5′ 8″	9′ 3′	9' 8'	10′ 11″	11' 4'	13′ 0″	13' 6'	14' 0"	14' 0"	14' 0"	14' 0'
Ma	*	SP	#2	5′ 5′	9' 2'	9' 6"	10' 10'	11′ 3′	12' 11"	13′ 5′	14' 0"	14' 0"	14' 0"	14' 0'
12	ณ	חבו	#3	5′ 3′	8′ 5′	9′ 0′	10′ 9′	11' 2'	12' 10"	13' 4"	14' 0"	14' 0"	14' 0'	14' 0"
1-	1,	DFL	Stud	5′ 3′	8' 5'	9′ 0″	10' 9'	11' 2'	12' 10"	13' 4'	14' 0"	14' 0'	14' 0"	14' 0"
		moduli ili—ili	Standard	5′ 1′	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3'	14' 0"	14' 0"	14' 0"	14' 0"
								Cumm						



Bracing Group Species and Gradesi Group A Spruce-Pine-Fir #1 / #2 Standard Stud #3 Stud Standard Douglas Fir-Larch Southern Pinewww #3 Stud Stud Standard Standard Group B Hen-Fir Douglas Fir-Larch Southern Pinemmi

EEFor 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 Vind Load deflection criterion is L/240.

Provide uplift connections for 55 pif 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' a.c. between zones.

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

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.

Trusses require extreme care in fabricating, handling, shipohe, histalling and hereing, Refer to and follow the latest edition of RCSI Childing Corponent Safety Information, by TPI and SUCA for screen practices prior to performing these functions. Installers shall provide tencoury tracing per BCSI. Unless noted otherwise, top chord shall have property attached structural sheathing and botton chost shall have a property attached rigid celling, locations shown for permanent lateral restraint of the shall have bracing installed per BCSI sections R3, B7 or BIO, as applicable. Apply plates to each for truss and position as shown above and on the Joint Betalls, unless noted otherwise.

Refer to drawings 160A-Z for standard plate positions.

Alpha, a division of TIV Building Corponents Group Inc. shall not be responsible for any deviation for this drawing, any falure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation a bracing of trusses.

A seal on this drawing or cover page listing this drawing, instantes acceptance of professional engineering responsibility socialy for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Besigner per ANSI/TPI 1 Sec.D.

For nore information see this job's general notes page and these web sites:

For more information see this job's general notes page and these web sites: ALPIND www.alpheltm.com TPD www.tphstorg. SBCA www.sbcindustry.org. ICO www.ccsafe.org

S/ONAL ENG!

ASCE7-16-GAB14015 DATE 01/26/2018

DRWG A14015ENC160118

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"



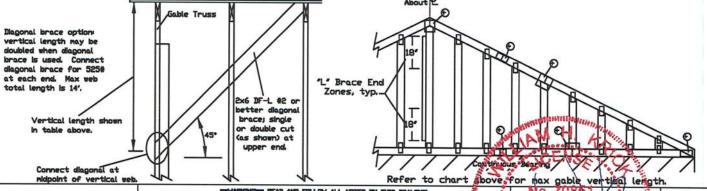
Gable Stud Reinforcement Detail

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

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

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

		2x4 Vertice	Brace	No	(1) 1x4 °L	* Brace #		L' Brace #				•		
_		Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
갂		SPF	#1 / #2	4' 1"	6' 11'	7' 2"	8' 2'	8' 6'	9' 9'	10' 2"	12' 10'	13' 4'	14' 0'	14' 0"
Ö	Ū	251	#3	3' 10"	6' 2'	6' 7"	8' 1"	8' 5'	9' 8'	10' 0"	12' 8'	13' 2'	14' 0'	14' 0"
č	-	HF	Stud	3' 10"	6' 2"	6' 6'	8' 1"	8' 5'	9' 8'	10' 0"	12' 8'	13' 2'	14' 0'	14' 0"
	0	1 11	Standard	3' 10"	5′ 3′	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10'	14' 0'	14' 0"
a,		00	#1	4' 2"	7' 0"	7' 3"	8' 3'	8' 7"	9' 10"	10' 3"	13' 0"	13' 6'	14' 0'	14' 0"
	*	SP	#2	4' 1"	6' 11"	7' 2'	8' 2"	8' 6'	9' 9'	10' 2"	12' 10'	13' 4"	14' 0"	14' 0"
	4	D	#3	4' 0'	5′ 7″	5' 11'	7' 5'	7' 11"	9' 8'	10' 1"	11' 7"	12' 5'	14' 0'	14' 0"
٥	N	IDFL	Stud	4' 0'	5′ 7′	5' 11'	7' 5"	7' 11"	9' 8'	10' 1"	11' 7"	12' 5'	14' 0'	14' 0"
2			Standard	3' 9'	4' 11"	5' 13'	6' 6"	7' 0"	8' 10"	9' 6'	10' 3'	11' 0'	13' 11'	14' 0"
ţ		SPF	#1 / #2	4' 8"	7' 11"	8' 3'	9' 4"	9' 9'	11' 2'	11' 7'	14' 0"	14' 0'	14' 0'	14' 0"
+		The state of the s	#3	4' 5"	7' 6"	8, 3,	9' 3'	9' 7"	11' 0"	11' 6'	14' 0"	14' 0'	14' 0'	14' 0"
2	ū	HF	Stud	4' 5"	7' 6"	8' 0'	9' 3"	9' 7"	11' 0'	11' 6'	14' 0"	14' 0"	14' 0"	14' 0"
ā	Ö	1.11	Standard	4' 5"	6' 5"	6' 10"	8' 7"	9' 2"	11' 0'	11' 6'	13' 6"	14' 0"	14' 0'	14' 0"
~		00	#1	4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3'	11' 9'	14' 0"	14' 0'	14' 0'	14' 0"
/		SP	#2	4' 8'	7' 11"	8, 3,	9' 4"	9' 9'	11' 2'	11' 7"	14' 0"	14' 0'	14' D'	14' 0'
5000		DE.	#3	4' 7"	6' 10"	7' 3"	9' 1"	9' 8'	11' 1'	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
Q.	16	DFL	Stud	4' 7"	6' 10"	7' 3'	9' 1'	9′ 8′	11' 1'	11' 6'	14' 0"	14' 0'	14' 0'	14' 0'
\preceq			Standard	4' 5'	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6'	12' 7"	13' 15'	14' 0'	14' 0"
9		SPF	#1 / #2	5′ 2 ′	8′ 9″	9' 1"	10' 4"	10' 9"	11' 2'	12' 9"	14' 0"	14' 0"	14' 0'	14' 0"
Q		SLL	#3	4' 10"	8' 7"	8' 11'	10' 2'	10' 7"	12' 2'	12' 8'	14' 0"	14' 0"	14' 0'	14' 0"
ט ו	U	HF	Stud	4' 10"	8' 7"	8' 11'	10' 2'	10' 7"	12' 2"	12' 8'	14' 0"	14' 0"	14' 0'	14' 0"
	ō	111	Standard	4' 10"	7' 5"	7' 11'	9' 11'	10' 7"	12' 2'	12' 8'	14' 0"	14' 0'	14' 0'	14' 0"
×	0	00	#1	5' 4"	8' 10'	9' 2'	10' 5'	10' 10"	12' 5'	12' 11'	14' 0"	14' 0"	14' 0'	14' 0'
21		SP	#2	5' 2'	8' 9'	9' 1"	10' 4"	10′ 9′	12' 3'	12' 9'	14' 0"	14' 0"	14' 0'	14' 0"
M	ັດ	100000000000000000000000000000000000000	#3	5′ 0 ′	7' 10"	8' 4"	10' 3'	10' 8"	12' 2'	12' 8'	14' 0"	14' 0'	14' 0'	14' 0'
-	10	DFL	Stud	5′ 0 ′	7' 10"	8' 4"	10' 3'	10' 8'	12' 2'	12' 8'	14' 0'	14' 0'	14' 0'	14' 0'
			Standard	4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2'	12' 8'	14' 0"	14' 0"	14' 0'	14' 0'



Bracing Group Species and Gradesi Group A Spruce-Pine-Fir #1 / #2 Standard Stud #3 Stud Standard Douglas Fir-Larch Southern Pinemm #3 Stud Stud Standard Standard Group B Hen-Fir #1 & Btr Douglas Fir-Larch Southern Pinemmm

EMFor 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

1x4 Braces shall be SRB (Stress-Rated Board

Vind 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) noils. # For (1) "L" brace: space nalls at 2" o.c. In 18' end zones and 4' o.c. between zones. 米彩or (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

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

peak, splice, and heel plates.

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

Trusses require extreme care in febricating, handling, shipping, installing and bracing. Refer to any folior the latest edition of BCSI Chalding Conponent Safety information, by TPI and SBCA for servicy practices prior to performing these functions. Installers shall provide temporary benefing and BCSI between Installers shall provide temporary benefing and BCSI control shall have properly attached structural sheathing and Borton chol shall have a properly attached structural sheathing and Borton chol shall have a properly attached right ceiling. Locations shown for permanent lateral restriction shall have bracking installed per BCSI sections BS, 37 or BIO, as applicable. Apply plates to each year of truss and position as shown above and on the Joint Betalis, unless noted otherwise.

Refer to drawings 100m-2 for standars pure positions.

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

A seal on this drawing or cover page listing this drawing, indicates eccaptence of professional engineering responsibility solely for the design shows. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.E.

For more information see this job's general notes page and these web sites: ALPINE www.lpinetta.com TPD www.tpinstorg; SBCA: www.sbcindustry.org; ICC www.lccsafe.org

CON #0.278 07/26/2021

ASCE7-16-GAB14030 DATE 01/26/2018

DRWG A14030ENC160118

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

CLR Reinforcing Member Substitution

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

Notes

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

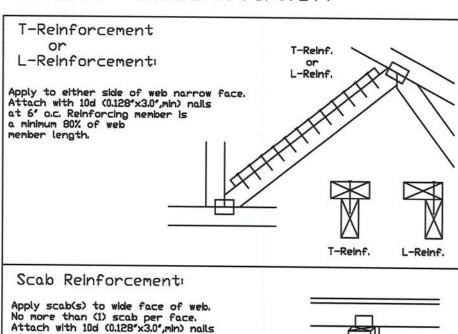
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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

Web Member Size	Specified CLR Restraint	Alternative Rein T- or L- Reinf.	
2x3 or 2x4	1 row	2x4	1-2×4
2x3 or 2x4	2 rows	2x6	2-2×4
2x6	1 row	2x4	1-2×6
2×6	2 rows	2x6	2-2×400
2x8	1 row	2x6	1-2x8
2×8	2 rows	2x6	2-2×6010

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.

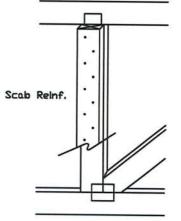
ON Center scab on wide face of web. Apply (1) scab to each face of web.



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Was CENSZO CENSZO

at 6' o.c. Reinforcing member is a minimum 80% of web member length.



WARNING READ AND FILLID ALL NITES IN THIS DRAVING

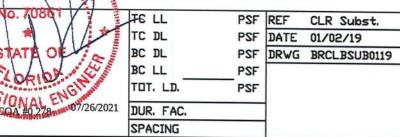
Trusses require extreme care in febricating, handling, shipping, installing and bracing. Refer to and folios the latest edition of BSI (Addeng Conponent Safety Infornation, by TPI and SIGOA) for salvety, practices prior to performing these functions. Installant shall provide temporary bracing per BISI. Unless moted otherwise, top chood shall have seen to stall have a properly attached rigid calling. Locations also for permanent lateral restraint of the shall have a properly attached rigid calling. Location shall have a properly attached rigid calling. Location shall have heading have a properly attached rigid calling. Location shall have a properly attached rigid calling. Location shall have a properly attached rigid calling. Location shall have heading have been shall have a properly attached rigid calling. Location shall have bracking the shall have a properly attached rigid calling the shall have a prop

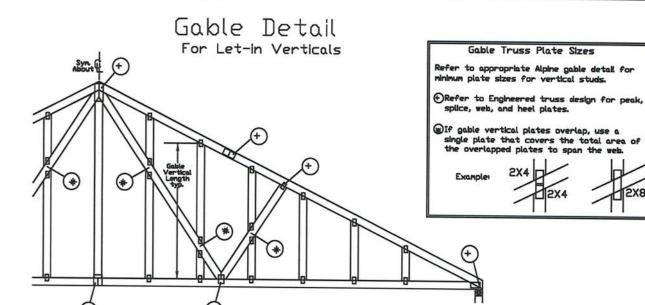
Apine, a division of ITV Bullsing Conponents Group Inc. shall not be responsible for any deviations as drawing, any failure to build the truss in conformance with MNSL/TPI or for handling, shipping stallation & bracing of trusces. A seal on this drawing, indicates acceptance of professional

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For more information see this job's general notes page and these web sites: ALPINED www.alpinettm.com; TPD www.tpinstorg; SECA www.sbcindustry.org; ICC www.ccsafe.org







Attach each "T" reinforcing member with

10d Common (0.148'x 3.',min) Nails at 4' o.c. plus (4) nalls in the top and bottom chords. Toenalled Nalls 10d Common (0.148"x3",min) Toenalls at 4" o.c. plus (4) toenalls in the top and bottom chords. This detail to be used with the appropriate Alpine gable detail for ASCE

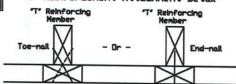
End Driven Nalls

ASCE 7-05 Gable Detail Drawings A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014 ASCE 7-10 & ASCE 7-16 Gable Detail Drawings A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015P20200118 \$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$1030[N C100118] \$18030ENC100118, \$20030ENC100118, \$20030EN3100118, \$20030EP3100118

Provide connections for uplift specified on the engineered truss design.

See appropriate Alpine gable detail for maximum and enforces pale ve

"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'
PIDE SIZE	Increase
2x4	30 %
2x6	20 %

Examples

ASCE 7-10 Vind 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"

Trusses require extreme care in februaring handling, shipping, installing and bracing. Refer to follow the latest edition of BCSI Challing Corponent Safety information, by TPI and SBCAP for separations prior to performing these functions. Installers shall provide temporary bracing per BCI unless noted othersise, top chord shall have properly etached structural sharing and bott on shall have a properly attached rigid celling. Locations shown for permanent lateral restriction shall have bracing installed per BCSI sections 18, 37 or 1810, as applicable. Apply plates to each of truss and position as shown above and on the John Brtalls, unless noted otherwise. Refer to drawings 1604-7 for standard plate positions.

Applie, a chiston of ITV Building Conponents Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI, or for handling, shippin hataliation is bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional angineering responsibility solaly for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Besigner per ANSI/TPI 1 Sec2.

For nove information see this Job's general notes page and these web stees

For more information see this job's general notes page and these web sites: ALPINE www.lpineite.com; TPS www.tpinst.org; SSCN www.sbcindustry.org; ICO www.lccsafe.or

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

DUR. FAC. ANY MAX. SPACING 24.0"

Nails Spaced At

4 Nalls

Reinforcing

Rigid Sheathing

514 Earth City Expressway Suite 242 Earth City, MO 63045

MAX. TOT. LD. 60 PSF