



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

Site Information:

Customer: W. B. Howland Company, Inc.

Job Number: 21-5823

Job Description: Hetrick

Address: FL

| Job Engineering Criteria: | |
|--|--------------------------------|
| Design Code: FBC 7th Ed. 2020 Res. | IntelliVIEW Version: 20.01.01A |
| | JRef #: 1X9M2150002 |
| Wind Standard: ASCE 7-16 Wind Speed (mph): 130 | Design Loading (psf): 40.00 |
| Building Type: Closed | |

This package contains general notes pages, 12 truss drawing(s) and 3 detail(s).

| Item | Drawing Number | Truss |
|------|-------------------|-------|
| 1 | 286.21.1348.18777 | A1 |
| 3 | 286.21.1348.25570 | A3 |
| 5 | 286.21.1348.31503 | C1 |
| 7 | 286.21.1348.38540 | C3 |
| 9 | 286.21.1348.44030 | D2 |
| 11 | 286.21.1348.51957 | G2 |
| 13 | A14015ENC160118 | |
| 15 | BRCLBSUB0119 | |

| Item | Drawing Number | Truss |
|------|-------------------|-------|
| 2 | 286.21.1348.20943 | A2 |
| 4 | 286.21.1348.29203 | B1 |
| 6 | 286.21.1348.33660 | C2 |
| 8 | 286.21.1348.40983 | D1 |
| 10 | 286.21.1348.49150 | G1 |
| 12 | 286.21.1349.00293 | G3 |
| 14 | GBLLETIN0118 | |
| | | |

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.

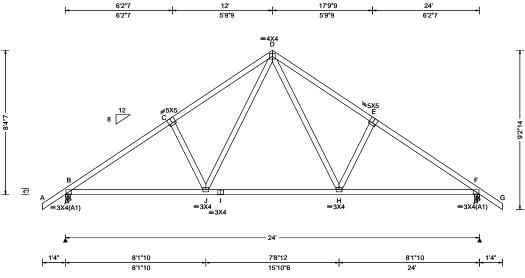
Refer to ASCE-7 for Wind and Seismic abbreviations.

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: 460260 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T1 FROM: RFG Qty: 12 DrwNo: 286.21.1348.18777 Hetrick Truss Label: A1 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | ▲ M |
|---|---|---|--|--|
| BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): | PP Deflection in loc L/defl L/# VERT(LL): 0.050 H 999 360 VERT(CL): 0.096 H 999 240 HORZ(LL): 0.021 F HORZ(TL): 0.041 F Creep Factor: 2.0 Max TC CSI: 0.350 Max BC CSI: 0.730 Max Web CSI: 0.226 | Loc B F Win B F Bea Mer Max Cho |
| Lumber | Willa Baration. 1.00 | WAVE | VIEW Vel. 20.01.01A.0724.11 | C - |

Maximum Reactions (lbs) Gravity Non-Gravity R+ /R /Rh /Rw /U /RL 1178 /-/180 /268 1178 /673 /180 nd reactions based on MWFRS Brg Width = 3.5Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5 arings B & F are a rigid surface. embers not listed have forces less than 375# ximum Top Chord Forces Per Ply (lbs) ords Tens.Comp. Chords Tens. Comp. 257 - 1570 323 - 1407 257 - 1571

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

Loading

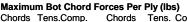
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



| Chords | Tens.Comp. | | Chords | Tens. (| Comp. |
|--------|------------|-------|--------|---------|-------|
| B - J | 1222 | - 101 | I-H | 827 | - 13 |
| J - I | 827 | - 13 | H-F | 1222 | - 101 |

Maximum Web Forces Per Ply (lbs)

| vvebs | rens.Comp. | vvebs | rens. Comp. | |
|-------|------------|-------|-------------|-------|
| I-D | 503 - 113 | D-H | 504 | - 113 |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

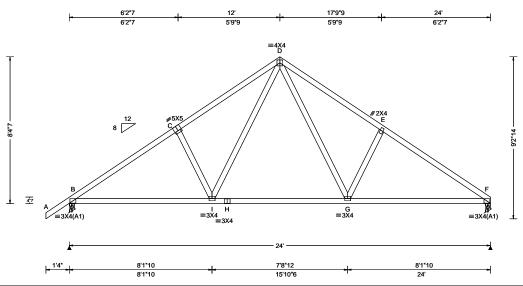
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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



SEQN: 460263 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T3 FROM: RFG Qty: 5 DrwNo: 286.21.1348.20943 Hetrick Truss Label: A2 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|---|--|--|---|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE | PP Deflection in loc L/defl L/# VERT(LL): 0.049 I 999 360 VERT(CL): 0.095 I 999 240 HORZ(LL): 0.021 F HORZ(TL): 0.041 F Creep Factor: 2.0 Max TC CSI: 0.382 Max BC CSI: 0.753 Max Web CSI: 0.233 VIEW Ver: 20.01.01A.0724.11 |
| Lumber | | | |

Maximum Reactions (lbs) Gravity Non-Gravity c R+ /R /Rh /Rw /U /RL 1181 /-/673 /181 /251 1083 /-/593 /157 ind reactions based on MWFRS Brg Width = 3.5Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5earings B & F are a rigid surface. embers not listed have forces less than 375# aximum Top Chord Forces Per Ply (lbs) nords Tens.Comp. Chords Tens. Comp. 258 - 1576 328 - 1424 324 - 1412 262 - 1586

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

Loading

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

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



| Chords | Tens.Comp. | | Chords | Tens. Comp. | |
|--------|------------|-------|--------|-------------|-------|
| B-I | 1226 | - 128 | H-G | 831 | 0 |
| I-H | 831 | 0 | G-F | 1240 | - 132 |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. Comp. | |
|-------|------------|------|-------------|-------|
| I - D | 592 - 113 | D-G | 612 | - 119 |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

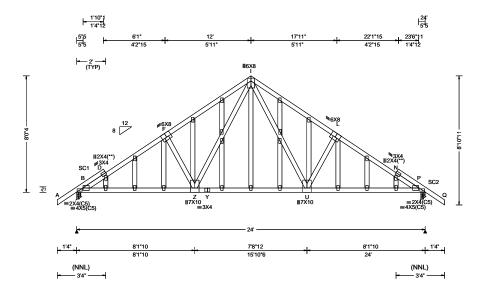
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SEQN: 460268 GABL Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T2 FROM: RFG Qty: 2 DrwNo: 286.21.1348.25570 Hetrick Truss Label: A3 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria |
|--|---|---|---|
| TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA | 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): 0.095 AB 999 36 VERT(CL): 0.213 AB 999 24 HORZ(LL): 0.046 E - |
| Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 | Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): | HORZ(TL): 0.102 E Creep Factor: 2.0 Max TC CSI: 0.796 Max BC CSI: 0.939 Max Web CSI: 0.474 |
| | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 |
| Lumber | | Additional Notes | |

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Truss designed to support 1-4-0 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.

Purlins

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

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

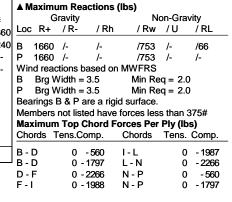
Wind loading based on both gable and hip roof types.

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

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

chord in notchable area using 3x6.
The overall height of this trust excluding overfix 8-0-4.

No. 86367



| Maximum Bot Chord Forces Per Ply (lbs) | | | | | |
|--|--------------|---|----------------|--------------|--------|
| Chords Tens.Comp. Chords Tens | | | | | omp. |
| B - Z Z - Y | 1881 1207 | 0 | Y - U U - P | 1207 1881 | 0 0 |

| Maximum Web Forces Per Ply (lbs) | | | | | | |
|----------------------------------|--------|-------|-------|---------|-------|--|
| Webs | Tens.C | Comp. | Webs | Tens. 0 | Comp. | |
| F-Z | 0 | - 556 | I - U | 798 | - 87 | |
| フェリ | 700 | Ω | 11-1 | //3 | - 557 | |



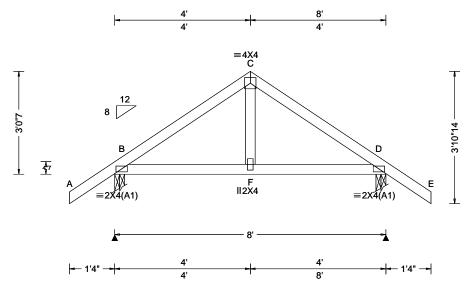
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SEQN: 460271 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T6 FROM: RFG Qty: 5 DrwNo: 286.21.1348.29203 Hetrick Truss Label: B1 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | DefI/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 | Pf: NA Ce: NA | VERT(LL): 0.003 F 999 360 |
| DCLL. 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.006 F 999 240 |
| | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.001 D |
| Dec 1 d · 40 00 1 | EXP: C Kzt: NA Mean Height: 15.00 ft | | HORZ(TL): 0.003 D |
| INCECT 1 40 00 | TCDL: 5.0 psf | Building Code: | Creep Factor: 2.0 |
| 0 - 46:4: | BCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.146 |
| l | MWFRS Parallel Dist: h to 2h | TPI Std: 2014 | Max BC CSI: 0.144 |
| Spacing: 24.0 " | C&C Dist a: 3.00 ft | Rep Fac: Yes | Max Web CSI: 0.063 |
| | Loc. from endwall: not in 9.00 ft | FT/RT:20(0)/10(0) | |
| | GCpi: 0.18 | Plate Type(s): | |
| \ | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 |

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 428 /284 /10 /120 428 /-/284 /-/10 Wind reactions based on MWFRS Min Req = 1.5 В Brg Width = 3.5 Brg Width = 3.5 Min Req = 1.5 Bearings B & D are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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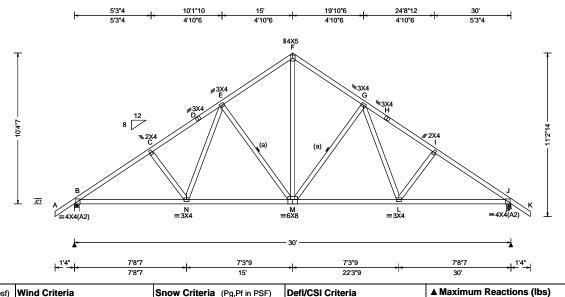
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A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

6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 460274 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T7 FROM: RFG Qty: 13 DrwNo: 286.21.1348.31503 Hetrick Truss Label: C1 / YK 10/13/2021



| 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/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.088 M 999 360 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.167 M 999 240 |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.040 J |
| Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " | EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf BWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any | Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) | HORZ(TL): 0.076 J Creep Factor: 2.0 Max TC CSI: 0.374 Max BC CSI: 0.806 Max Web CSI: 0.475 |
| | GCpi: 0.18 | Plate Type(s): | |
| | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 |

Lumber

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

(a) Continuous lateral restraint equally spaced on

Loading

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

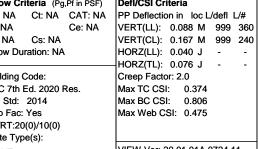
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



| | Giavity | | | | NOII-GIAVILY | | |
|---|---------|--------|----------|-----------|--------------|-----------|--------|
|) | Loc | R+ | / R- | / Rh | / Rw | / / U | / RL |
|) | В 1 | 471 | /- | /- | /821 | /220 | /324 |
| | J 1 | 471 | /- | /- | /821 | /220 | /- |
| | Wind | l reac | tions b | oased o | n MWFRS | 3 | |
| | В | Brg W | /idth = | 4.0 | Min R | eq = 1.7 | 7 |
| | J | Brg W | /idth = | 3.5 | Min R | eq = 1.7 | 7 |
| | Bear | ings I | 3 & J a | are a rig | id surface | | |
| | Mem | bers | not list | ted have | e forces le | ss than : | 375# |
| | Maxi | mum | Top (| Chord I | Forces Pe | r Ply (lb | s) |
| | Chor | ds T | ens.C | omp. | Chords | Tens. | Comp. |
| | B-C | | 330 - | 2093 | F-G | 339 | - 1376 |
| | C - D | | | | G-H | 357 | |
| | D-E | | 357 - | 1794 | H - I | 347 | - 1912 |
| | F-F | | 339 - | 1376 | 11 | 330 | - 2093 |

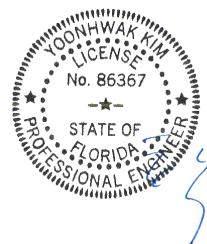
Gravity

Non-Gravity

| Maximum Bot Chord Forces Per Ply (lbs) | | | | | | |
|--|--------|------|--------|-------|------|--|
| Chords | Tens.C | omp. | Chords | Tens. | Comp | |
| D N | 1660 | 172 | NA I | 1202 | 6 | |

63 N - M 1382 - 68 L-J 1662 - 173

| Maximum web Forces Per Ply (IDS) | | | | | | |
|----------------------------------|------------|-------|-------|---------|-------|--|
| Webs | Tens.Comp. | | Webs | Tens. (| Comp. | |
| N - E | 427 | - 54 | M - G | 195 | - 528 | |
| E - M | 195 | - 528 | G-L | 427 | - 54 | |
| F-M | 1115 | - 245 | | | | |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

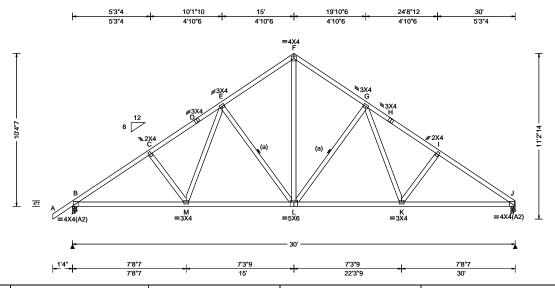
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 460277 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T8 FROM: RFG Qty: 3 DrwNo: 286.21.1348.33660 Hetrick Truss Label: C2 / YK 10/13/2021



| 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/# |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.087 L 999 360 |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.166 L 999 240 |
| | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.039 J |
| Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 | EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any | Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) | HORZ(TL): 0.074 J Creep Factor: 2.0 Max TC CSI: 0.374 Max BC CSI: 0.803 Max Web CSI: 0.477 |
| | GCpi: 0.18 Wind Duration: 1.60 | Plate Type(s): WAVE | VIEW Ver: 20.01.01A.0724.11 |
| | | | |

Lumber

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

(a) Continuous lateral restraint equally spaced on

Loading

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

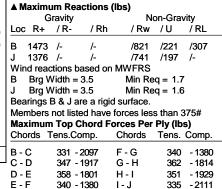
Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



| Maximu | m Bot Chord | Forces Per | Ply (lbs) |) |
|--------|-------------|------------|-----------|-----|
| Chords | Tens.Comp. | Chords | Tens. 0 | Con |

| | rens. comp. | |
|--|-------------|--|
| B - M 1665 - 199 L - K 1390 - M - L 1386 - 89 K - J 1682 - 2 | | |

Maximum Web Forces Per Ply (lbs)

| vvebs | rens.Comp. | | webs | rens. Comp. | |
|-------|------------|-------|------|-------------|-------|
| M - E | 427 | - 53 | L-G | 197 | - 535 |
| E-L | 195 | - 528 | G-K | 443 | - 59 |
| F-I | 1110 | - 246 | | | |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

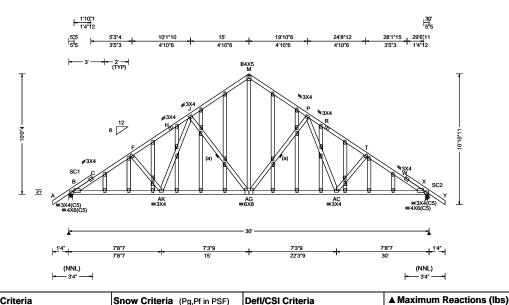
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SEQN: 460282 GABL Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T4 FROM: RFG Qty: 2 DrwNo: 286.21.1348.38540 Hetrick Truss Label: C3 / YK 10/13/2021



| Loading Criteria (psf) Wind Criteria | | Snow Criteria (Pg,Pf in PSF) | DefI/CSI Criteria | | |
|--------------------------------------|--|------------------------------|---------------------------------|--|--|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | | |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.115 N 999 360 | | |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.269 N 999 240 | | |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.038 D | | |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.089 D | | |
| NCBCLL: 10.00 | Mean Height: 15.00 ft TCDL: 5.0 psf | Building Code: | Creep Factor: 2.0 | | |
| Soffit: 2.00 | BCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.860 | | |
| Load Duration: 1.25 | MWFRS Parallel Dist: 0 to h/2 | TPI Std: 2014 | Max BC CSI: 0.494 | | |
| Spacing: 24.0 " | C&C Dist a: 3.00 ft | Rep Fac: No | Max Web CSI: 0.610 | | |
| ' " | Loc. from endwall: Any | FT/RT:20(0)/10(0) | | | |
| | GCpi: 0.18 | Plate Type(s): | | | |
| | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 | | |

Lumber

Top chord: 2x4 SP #2; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-4-0 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.

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

Wind

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

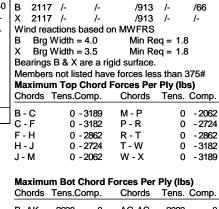
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss and building of the hang is



Non-Gravity

/RL

/Rw /U

Gravity

/R

Loc R+

| Chords | Tens.Comp. | | Chords | Tens. Co | omp. |
|--------|------------|---|--------|----------|------|
| B -AK | 2638 | 0 | AG-AC | 2093 | 0 |
| AK-AG | 2093 | 0 | AC- X | 2638 | |

Maximum Web Forces Per Plv (lbs)

| Webs | Tens.C | comp. | Webs | Tens. Comp. | |
|-------|--------|-------|-------|-------------|-------|
| F-AK | 0 | - 558 | AG- P | 92 | - 834 |
| AK- J | 602 | 0 | P-AC | 602 | - 47 |
| J -AG | 0 | - 834 | AC-T | 45 | - 558 |
| M -AG | 1602 | 0 | | | |

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

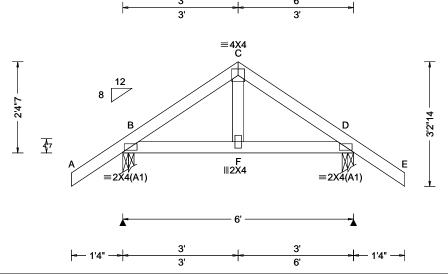
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SEQN: 460285 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T10 FROM: RFG Qty: 4 DrwNo: 286.21.1348.40983 Hetrick Truss Label: D1 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria | Ī |
|------------------------|--|------------------------------|---------------------------------|---|
| TCLL: 20.00 | Wind Std: ASCE 7-16 | Pg: NA Ct: NA CAT: NA | PP Deflection in loc L/defl L/# | |
| TCDL: 10.00 | Speed: 130 mph | Pf: NA Ce: NA | VERT(LL): 0.002 F 999 360 | |
| BCLL: 0.00 | Enclosure: Closed | Lu: NA Cs: NA | VERT(CL): 0.003 F 999 240 | |
| BCDL: 10.00 | Risk Category: II | Snow Duration: NA | HORZ(LL): 0.001 D | |
| Des Ld: 40.00 | EXP: C Kzt: NA | | HORZ(TL): 0.002 D | |
| NCBCLL: 10.00 | Mean Height: 15.00 ft TCDL: 5.0 psf | Building Code: | Creep Factor: 2.0 | |
| Soffit: 2.00 | BCDL: 5.0 psf | FBC 7th Ed. 2020 Res. | Max TC CSI: 0.146 | |
| Load Duration: 1.25 | MWFRS Parallel Dist: 0 to h/2 | TPI Std: 2014 | Max BC CSI: 0.072 | |
| Spacing: 24.0 " | C&C Dist a: 3.00 ft | Rep Fac: Yes | Max Web CSI: 0.043 | |
| ' • | Loc. from endwall: not in 4.50 ft | FT/RT:20(0)/10(0) | | |
| | GCpi: 0.18 | Plate Type(s): | | 1 |
| | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 | |
| Louis | • | • | • | - |

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL В 344 /238 /102 344 /-/238 /-/59 Wind reactions based on MWFRS Min Req = 1.5 Brg Width = 3.5 В Brg Width = 3.5 Min Req = 1.5 Bearings B & D are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

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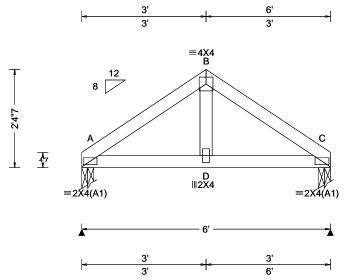
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

6750 Forum Drive Suite 305 Orlando FL, 32821

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.

SEQN: 460288 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T12 FROM: RFG Qty: 1 DrwNo: 286.21.1348.44030 Hetrick Truss Label: D2 / YK 10/13/2021



| Loadir | ng Criteria (psf) | Wind Criteria | Snow Criteria (Pg | ,Pf in PSF) | Defl/CSI Criteri | a | | |
|--|------------------------|---|-------------------|-------------------|---|---|-------------------------------|-----------------------------|
| TCLL: TCDL: BCLL: BCDL: Des Lo NCBC! Soffit: Load D | 20.00 10.00 0.00 | Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCDi: 0.18 | , - | CAT: NA Ce: NA | PP Deflection ir VERT(LL): 0.0 VERT(CL): 0.0 HORZ(LL): 0.0 HORZ(TL): 0.0 Creep Factor: 2 | n loc L/ 101 D 103 D 101 C 101 C 101 C 100 0 100 0 | /defl 999 999 - - | L/# 360 240 - - |
| <u> </u> | | Wind Duration: 1.60 | WAVE | | VIEW Ver: 20.0 | 1.01A.0 | 724. | 11 |

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 252 /148 /54 252 /-/148 /-Wind reactions based on MWFRS Brg Width = 3.5 Min Reg = 1.5Brg Width = 3.5 Min Req = 1.5 Bearings A & C are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

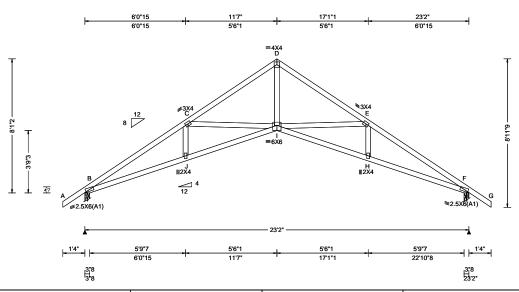
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SEQN: 460291 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T5 FROM: RFG Qty: 9 DrwNo: 286.21.1348.49150 Hetrick Truss Label: G1 / YK 10/13/2021



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | DefI/CSI Criteria |
|---|---|---|--|
| BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 | Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): | PP Deflection in loc L/defl L/# VERT(LL): 0.149 I 999 360 VERT(CL): 0.311 I 883 240 HORZ(LL): 0.139 F HORZ(TL): 0.291 F Creep Factor: 2.0 Max TC CSI: 0.463 Max BC CSI: 0.741 Max Web CSI: 0.586 |
| | Wind Duration: 1.60 | WAVE | VIEW Ver: 20.01.01A.0724.11 |

| ▲ Ma | aximu | ım Reac | tions (| (lbs) | | |
|-------|---------|------------|---------|--------------|----------|--------|
| | G | ravity | | N | on-Grav | vity |
| Loc | R+ | / R- | /Rh | / Rw | / U | / RL |
| В | 1078 | /- | /- | /659 | /171 | /261 |
| F | 1078 | /- | /- | /659 | /171 | /- |
| Win | d reac | tions ba | sed on | MWFRS | | |
| В | Brg W | /idth = 3 | .5 | Min Re | q = 1.5 | 5 |
| F | Brg W | /idth = 3 | .5 | Min Re | q = 1.5 | 5 |
| Bea | rings E | 3 & Fare | a rigi | d surface. | - | |
| Men | bers | not listed | have | forces les | s than 3 | 375# |
| Max | imum | Top Ch | ord F | orces Per | Ply (lb | s) |
| Cho | rds T | ens.Con | np. | Chords | Tens. | Comp. |
| B - 0 | 2 | 310 - 24 | 192 | D-E | 191 | - 1805 |
| C-1 | 5 | 191 - 18 | - | E-F | 310 | - 2492 |

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. C | omp. |
|----------------|--------------------------|----------------|--------------|--------------|
| B - J J - I | 2100 - 168 2111 - 168 | I - H H - F | 2111 2100 | - 161 161 |
| J - I | 2111 - 100 | п-г | 2100 | - 101 |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. (| Comp. |
|------|------------|------|---------|-------|
| | 236 - 557 | I-E | 236 | - 557 |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

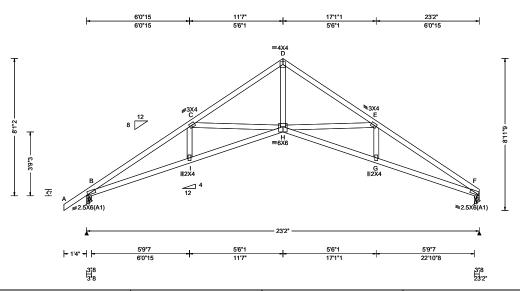
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SEQN: 460294 COMN Ply: 1 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T13 FROM: RFG Qty: 5 DrwNo: 286.21.1348.51957 Hetrick Truss Label: G2 / YK 10/13/2021



| TCDL: 10.00 Speed: 130 mph Pf: NA Ce: NA VERT(LL): 0.147 H 999 | ia (Pg,Pf in PSF) Defl/CSI Criteria | Wind Criteria | Loading Criteria (psf) |
|--|--|--|---|
| Loc. from endwall: not in 9.00 ft | t: NA CAT: NA Ce: NA Ce: NA VERT(LL): 0.147 H 999 360 L Con: NA VERT(CL): 0.310 H 885 240 B Con: NA Co | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 | TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 |

▲ Maximum Reactions (lbs) Gravity Non-Gravity R+ /Rh /Rw /U /RL 1081 /-/659 /172 /244 983 /-/578 /148 /-Wind reactions based on MWFRS Brg Width = 3.5Min Req = 1.5 Brg Width = 3.5 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 339 - 2503 223 - 1817 223 - 1816 347 - 2529

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

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

| Chords | Tens.Comp. | Chords | Tens. Comp. | |
|--------|------------|--------|-------------|--|
| B-I | 2109 - 213 | H-G | 2146 - 222 | |
| I-H | 2120 - 214 | G-F | 2138 - 222 | |

Maximum Web Forces Per Ply (lbs)

| Webs | Tens.Comp. | Webs | Tens. (| Jomp. |
|-------|------------|-------|---------|-------|
| - | 233 - 558 | H - E | 242 | - 583 |
| D - H | 1551 - 109 | | | |



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

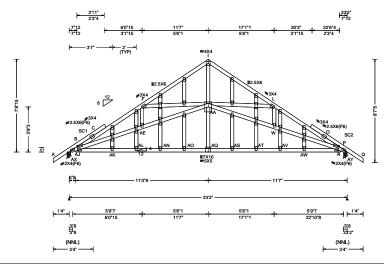
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SEQN: 460309 GABL Ply: 2 Job Number: 21-5823 Cust: R 215 JRef: 1X9M2150002 T11 Qty: 1 FROM: RFG DrwNo: 286.21.1349.00293 Hetrick Truss Label: G3 / YK 10/13/2021

2 Complete Trusses Required



| Loading Criteria (psf) | Wind Criteria | Snow Criteria (Pg,Pf in PSF) | DefI/CSI Criteria |
|------------------------|--|---|--|
| Loading Criteria (psf) | Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any | 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) | Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.056 Al 999 360 VERT(CL): 0.125 Al 999 240 HORZ(LL): 0.026 D HORZ(TL): 0.059 D Creep Factor: 2.0 Max TC CSI: 0.435 Max BC CSI: 0.305 Max Web CSI: 0.295 |
| | GCpi: 0.18 Wind Duration: 1.60 | Plate Type(s): WAVE | VIEW Ver: 20.01.01A.0724.11 |
| Lumber | | Additional Notes | |

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL AX 1593 /-/720 /66 AY 1616 /730 Wind reactions based on MWFRS AX Brg Width = 1.5 Min Rea = 1.5AY Brg Width = 3.5 Min Req = 1.5 Bearings AX & AY 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. 112 - 1170 0 - 1034 0 - P 37 - 998

Lumbei

Top chord: 2x4 SP #2; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #3; Stack Chord: SC1 2x4 SP #2;

Stack Chord: SC2 2x4 SP #2;

Nailnote

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. :1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails

in each row to avoid splitting.

Plating Notes

All plates are 2X4 except as noted.

Loading

Truss designed to support 1-4-0 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.

Laterally brace BC at 24" oc in lieu of rigid ceiling. Laterally brace BC above filler at 24" oc.

Wind

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

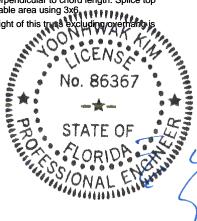
Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss



Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp. B-AJ 930 R-P 0

Maximum Web Forces Per Ply (lbs)

| VV CD3 | 16113.0 | winp. | WEDS | i ciis. (| Jonnp. |
|--------|---------|-------|-------|-----------|--------|
| AJ-AK | 990 | 0 | AA- L | 44 | - 606 |
| AK-AL | 985 | 0 | AQ-AS | 985 | 0 |
| AL-AN | 985 | 0 | AS-AT | 985 | 0 |
| F-AA | 0 | - 659 | AT-AV | 985 | 0 |
| AN-AO | 985 | 0 | AV-AW | 985 | 0 |
| AO-AQ | 985 | 0 | AW-R | 991 | 0 |

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/13/2021

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Gable Stud Reinforcement Detail

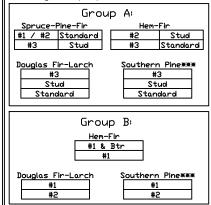
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

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

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

| | | 2x4 Vertica | Brace | No | (1) 1×4 "L | Brace * | (1) 2×4 *L | | (2) 2×4 L | • | (1) 2×6 'L | " Brace * | (2) 2x6 * L | Brace ** |
|----------|----------------|----------------|----------|----------------|---------------|----------------|-----------------|----------------|-----------------|----------------|----------------|-----------------|--------------------|----------------|
| | Spacing | Species | Grade | _ | Group A | Group B | Group A | Group B | Group A | Group B | Group A | Group B | Group A | Group B |
| t 1 | | 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″ |
| <u> </u> | 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″ |
| 21 | Ų | 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 | 1 11 | Standard | 4′ 1″ | 5′ 8 ″ | 6′ 0 ″ | 7′ 7″ | 8′ 1 ″ | 10′ 1″ | 10′ 6″ | 11′ 10″ | 12′ 8″ | 14′ 0″ | 14′ 0″ |
| a. | | | #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 | l | #3 | 4′ 2 ″ | 6′ 0″ | 6′ 4″ | 7′ 11″ | 8′ 6 ″ | 10′ 2″ | 10′ 7″ | 12′ 5 ′ | 13′ 4″ | 14′ 0″ | 14′ 0″ |
| | Ω | IDFLI | Stud | 4′ 2″ | 6′ 0″ | 6′ 4″ | 7′ 11″ | 8′ 6 ″ | 10′ 2″ | 10′ 7″ | 12′ 5 ′ | 13′ 4″ | 14′ 0″ | 14′ 0″ |
| ŭ | | | Standard | 4′ 0″ | 5′ 3 ″ | 5′ 7 ″ | 7′ 0″ | 7′ 6″ | 9′ 6″ | 10′ 2″ | 11′ 0″ | 11′ 10″ | 14′ 0″ | 14′ 0″ |
| | | SPF | #1 / #2 | 4′ 11″ | 8′ 4″ | 8′ 8 ″ | 9′ 10 ″ | 10′ 3″ | 11′ 8″ | 12′ 2 ″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| +> | . . | 761 | #3 | 4′ 8 ″ | 8′ 1 ″ | 8′ 8 ″ | 9′ 8 ′ | 10′ 1″ | 11′ 7″ | 12′ 1″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| | U | HF | Stud | 4′ 8 ″ | 8′ 1″ | 8′ 6 ″ | 9′ 8″ | 10′ 1″ | 11′ 7″ | 12′ 1″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| ΠàΙ | Ö | 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″ |
| 🖑 | | | #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 | | #3 | 4′ 9″ | 7′ 4″ | 7′ 9″ | 9′ 9″ | 10′ 2″ | 11′ 8″ | 12′ 1″ | 14′ 0″ | 14' 0" | 14′ 0″ | 14′ 0″ |
| ושו | 16 | IDFLI | Stud | 4′ 9″ | 7′ 4″ | 7′ 9″ | 9′ 9″ | 10′ 2″ | 11′ 8″ | 12′ 1″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| | | | Standard | 4′ 8″ | 6′ 5 ″ | 6′ 10 ″ | 8′ 7 ″ | 9′ 2″ | 11′ 7″ | 12′ 1″ | 13′ 6 ″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| abl | | SPF | #1 / #2 | 5′ 5 ″ | 9′ 2″ | 9′ 6″ | 10′ 10 ″ | 11′ 3″ | 11′ 8″ | 13′ 5 ″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| Ø | . . | 766 | #3 | 5′ 1 ″ | 9′ 0″ | 9′ 4″ | 10′ 8″ | 11′ 1″ | 12′ 9″ | 13′ 3″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| 0 | U | HF | Stud | 5′ 1 ″ | 9′ 0″ | 9′ 4″ | 10′ 8″ | 11′ 1″ | 12′ 9″ | 13′ 3″ | 14′ 0 ″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| | Ō | 1 11 | Standard | 5′ 1 ″ | 8′ 0 ″ | 8′ 6 ″ | 10′ 8″ | 11′ 1″ | 12′ 9 ″ | 13′ 3″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| × | | | #1 | 5′ 8 ″ | 9′ 3″ | 9′ 8″ | 10′ 11″ | 11′ 4″ | 13′ 0″ | 13′ 6 ″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| G | * | SP | #2 | 5′ 5″ | 9′ 2″ | 9′ 6″ | 10′ 10″ | 11′ 3″ | 12′ 11″ | 13′ 5 ′ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| lΨ | ù | | #3 | 5′ 3 ″ | 8′ 5 ″ | 9′ 0″ | 10′ 9 ″ | 11′ 2″ | 12′ 10 ″ | 13′ 4″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |
| | 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″ |
| | | | Standard | 5′ 1 ′ | 7′ 5″ | 7′ 11 ″ | 9′ 11″ | 10′ 7″ | 12′ 9″ | 13′ 3″ | 14′ 0″ | 14′ 0″ | 14′ 0″ | 14′ 0″ |



Bracing Group Species and Grades:

1x4 Braces shall be SRB (Stress-Rated Board) **For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards, Group B values may be used with these grades.

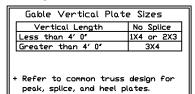
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

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

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

Attach "L" braces with 10d (0.128"x3.0" min) nails. * For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones. ₩¥For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

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



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

> |DATE 01/26/2018 DRWG A14015ENC160118

ASCE7-16-GAB14015

Gable Truss Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web "L" Brace End total length is 14'. Zones, typ. 2×4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Constitutions Bearing Connect diagonal at Refer to chart above son midpoint of vertical web.

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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 12/20011 ALPINE: www.alpineitw.com; TPI: www.tpinstorg; SBCA: www.sbcindustry.org; ICC: www.tsacapacoruff 1/78

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

onhwak Kim FL PE #86367

514 Earth City Expressway Suite 242 Earth City, MO 63045

Gable Detail For Let-in Verticals Gable Truss Plate Sizes Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs. (+) Refer to Engineered truss design for peak, splice, web, and heel plates. ₩If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web. Gable Example Length typ.

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3.", min) Nails at 4" o.c. plus

(4) nails in the top and bottom chords.

10d Common (0.148"x3".min) Toenails at 4" o.c. plus

(4) toenails in the top and bottom chords.

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

ASCE 7-05 Gable Detail Drawings

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

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

A11515ENC100118, A12015ENC100118, A14015ENC100118, A14015ENC100118,

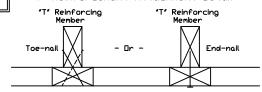
A18015ENC100118, A12015ENC100118, A12015ENC100118, A12015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A120015ENC100118, A12003ENC100118, A12003ENC100118, A120030ENC100118, A120030ENC100118,

\$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015PED100118 \$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$12030ENC100118)

\$18030ENC100118, \$20030ENC100118, \$20030END100118, \$20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical

"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. | " T" | |
|------------|-------------|--|
| Mbr. Size | Increase | |
| 2×4 | 30 % | |
| 2x6 | 20 % | |

Example:

ASCE 7-10 Wind Speed = 120 mph Mean Roof Height = 30 ft, Kzt = 1.00 Gable Vertical = 24°o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30 (1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length $1.30 \times 8' \ 7'' = 11' \ 2''$

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For more information see this job's general notes page and these web strug 137202 278 Yoonhwak Kim, FL PE #86367 ALPINE: www.alpineitw.com, TPI www.tpinst.org, SBCA: www.sbcindustry.org, ICC: www.lccsafe.org

DUR. FAC. ANY REF LET-IN VERT DATE 01/02/2018 DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing Member

Gable

Truss

514 Earth City Expressway Suite 242 Earth City, MO 63045

CLR Reinforcing Member Substitution

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

Notes:

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

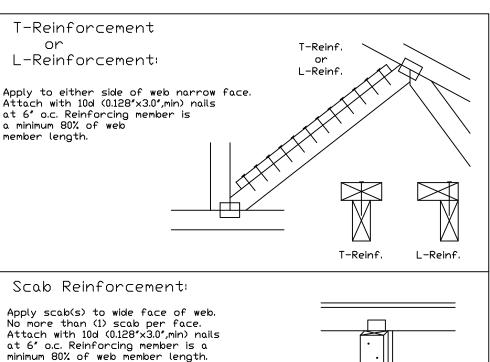
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

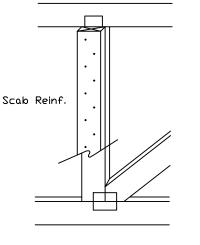
Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

| Web Member | Specified CLR | Alternative Reir | |
|------------|---------------|------------------|------------------------|
| Size | Restraint | T- or L- Reinf. | |
| 2x3 or 2x4 | 1 row | 2×4 | 1-2×4 |
| 2x3 or 2x4 | 2 rows | 2×6 | 2-2×4 |
| 2×6 | 1 row | 2×4 | 1-2×6 |
| 2×6 | 2 rows | 2×6 | 2-2×4(*) |
| 2×8 | 1 row | 2×6 | 1-2×8 |
| 2×8 | 2 rows | | 2-2×6(*/) |

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

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





IREF

CLR Subst.

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engineering responsibility solely for the design shown. The suitability and use of this 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/13/20.21 ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.ictsofte.org# 278.

ום אַד DATE 01/02/19 BC DL DRWG BRCLBSUB0119 **PSF** RC II **7**□T. LD. PSF DUR. FAC. SPACING Yoonhwak Kim, FL PE #86367



514 Earth City Expressway Suite 242 Earth City, MO 63045