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No. 70861



COA #0 278

Florida Certificate of Product Approval #FL 1999 10/09/2023

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

Site Information:	Page 1:	
Customer: W. B. Howland Company, Inc.	Job Number: 23-9526A	
Job Description: Karlton- Inlaw Suite		
Address: FL		

Job Engineering Criteria:					
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 22.02.00				
	JRef #: 1XTP2150003				
Wind Standard: ASCE 7-16 Wind Speed (mph): 130	Design Loading (psf): 37.00				
Building Type: Closed					

This package contains general notes pages, 7 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	282.23.0831.24730	T1
3	282.23.0831.40510	T1B
5	282.23.0832.04970	T1E
7	282.23.0832.10323	TC1E
9	A14015ENC160118	
11	PB160160118	

Item	Drawing Number	Truss
2	282.23.0831.25997	T1A
4	282.23.0832.02167	T1CE
6	282.23.0832.07710	TC1
8	BRCLBSUB0119	
10	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.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

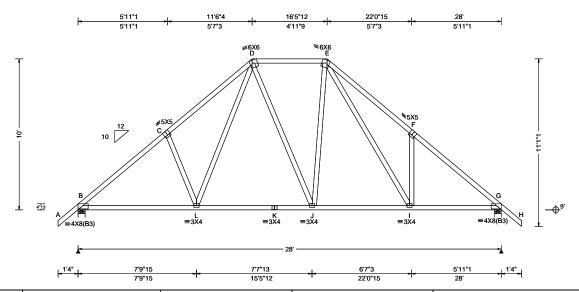
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 581494 COMN Ply: 1 Job Number: 23-9526A Cust: R 215 JRef: 1XTP2150003 T8 FROM: RFG Qty: 20 DrwNo: 282.23.0831.24730 Karlton-Inlaw Suite Truss Label: T1 KD / WHK 10/09/2023



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: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.058 L 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.101 L 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.030 G	
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.052 G	1
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.373	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.734	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.983	
'	Loc. from endwall: Any	FT/RT:20(0)/10(0)		I,
	GCpi: 0.18	Plate Type(s):		1
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12	1
	•	•	•	-

Lumber

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

Loading

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

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

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 10-0-0.

		▲ Ma	aximu	m Reac	tions (I	bs)		
efl	L/#		G	ravity	-	No	n-Grav	ity
99	240	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
99	180	В	1337	/-	/-	/694	/191	/350
-	-	G ·	1347	/-	/-	/694	/191	/-
_	_	Wind	d read	tions bas	sed on I	MWFRS		
		В	Brg W	/id = 5.5	Min	Req = 2.3	(Truss)
		G	Brg V	/id = 5.5	Min	Req = 2.3	(Truss)
		Bear	rings I	3 & G are	e a rigid	I surface.		
		Mem	bers	not listed	l have f	orces less	than 3	75#
		Max	imum	Top Ch	ord Fo	rces Per	Ply (lbs	s)
		Cho	rds T	ens.Con	np.	Chords	Tens.	Comp.
1.12	>	B - C	;	347 - 16	667	E-F	617	- 1666
	_	C-E)	486 - 15	539	F-G	341	- 1686

350 - 965

D-E

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.C	comp.	Chords	Tens. 0	Comp.
B-L		- 187	J - I	941	- 9
L-K	913	- 81	I-G	1211	- 99
K - J	913	- 81			

Maximum Web Forces Per Ply (lbs)						
Webs	Tens.C	comp.	Webs	Tens. (Comp.	
L - D E - I		- 278 - 412	I-F	393	- 313	



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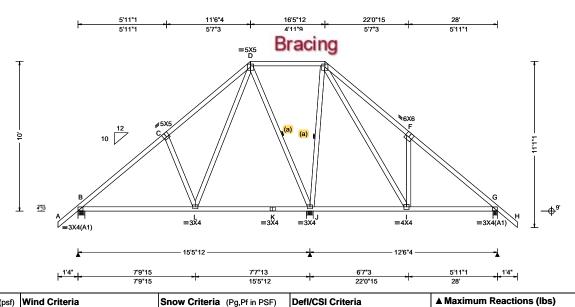
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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SEQN: 581495 COMN Ply: 1 Job Number: 23-9526A Cust: R 215 JRef: 1XTP2150003 T9 FROM: RFG DrwNo: 282.23.0831.25997 Qty: 3 Karlton-Inlaw Suite Truss Label: T1A KD / WHK 10/09/2023



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: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.016 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.028 L 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 F
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.017 F
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.405
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.529
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.811
-	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C E-F 355 - 427 151 - 627 274 - 511 C-D F-G 124 - 414

Brg Wid = 5.5 Min Req = 1.5 (Truss)

Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B, J, & G are a rigid surface. Members not listed have forces less than 375#

Non-Gravity

/139

/117 /-

/126

/RL

/350

/Rw /U

/377

/709

/378

Min Req = 2.2 (Truss)

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

/Rh

/-

Wind reactions based on MWFRS

B-L 439 - 235

D - .I

Gravity

BrgWid = 5.5

Loc R+

1595 /-

497

В 646

waxiiiuiii web roices rei riy (ibs)						
Webs	Tens.Comp.	Webs	Tens. (Comp.		
L-D	576 - 224	J - E	116	- 652		

E - I

614

-340

99 - 636

Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;

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

Bracing

(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.

Purlins

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 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

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



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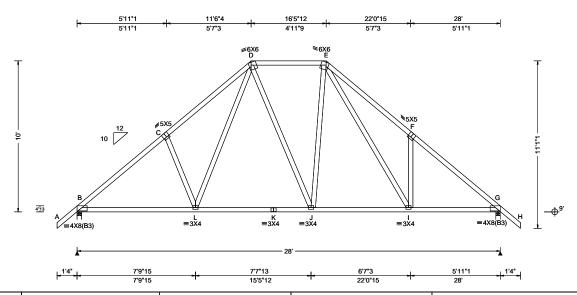
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SEQN: 581496 COMN Ply: 1 Job Number: 23-9526A Cust: R 215 JRef: 1XTP2150003 T6 FROM: RFG DrwNo: 282.23.0831.40510 Qty: 2 Karlton-Inlaw Suite Truss Label: T1B KD / WHK 10/09/2023



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: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.058 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.101 L 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.030 G
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.052 G
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psi	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.373
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.734
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.983
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

Lumber

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

Loading

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

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

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 10-0-0.

L-K

K-J

E - I

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rh /Rw /U /RL 1337 /-/694 /191 /350 1347 /-/694 /191 /-Wind reactions based on MWFRS Brg Wid = 3.5Min Reg = 2.3 (Truss) Brg Wid = 3.5 Min Req = 2.3 (Truss) Bearings B & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 347 - 1667 617 - 1666 C-D 486 - 1539 341 - 1686 D-E 350 - 965

Maximum Bot Chord Forces Per Ply (lbs) Tens. Comp. Chords Tens.Comp. Chords B-L 1196 941 - 9 913 1 - G

- 81

913 - 81

520 - 412

1211

- 99

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - D 517 - 278 393 - 313



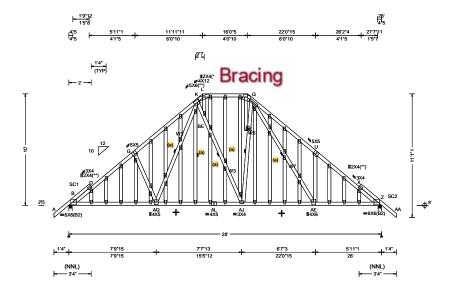
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.093 S 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.230 S 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.043 E
Des Ld: 37.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.105 E
NCBCLL: 10.00	TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.332
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.398
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.984
-	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

Lumber

Top chord: 2x4 SP M-31; Bot chord: 2x4 SP M-31: Webs: 2x4 SP #3; W2,W3,W6,W7 2x4 SP #2; 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.

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

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 7.00 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 or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is

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

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R /Rh /Rw /U /RL В 2104 /-/860 /301 /491 2104 /863 /298 /-Wind reactions based on MWFRS Brg Wid = 3.5Min Rea = 2.5 (Truss)Brg Wid = 3.5 Min Req = 2.5 (Truss) Bearings B & Z are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - D 184 - 961 B - D 337 - 1815 Q-U - 2786 966 D - G 592 - 2672 U - X 613 - 2699 G-K 859 - 2493 X - Z 196 - 987 K-L 523 - 1704 X - Z 330 - 1815 L-P 511 - 1496

10/09/2023

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B-AQ 1521

2055 - 269 AJ-AE - 30 AQ-AL 1504 - 129 AF- 7 2079 - 201 AL-AJ 1503 - 129

Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens. Comp.			
G -AQ	331	- 523	BK- Q	415	- 503		
AQ- K	908	- 554	Q -AE	1140	- 684		
L -BE	487	- 170	AE- U	280	- 432		



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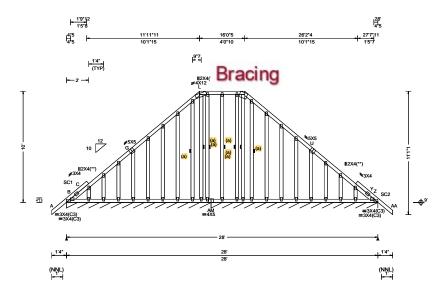
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SEQN: 581498 GABL Ply: 1 Job Number: 23-9526A Cust: R 215 JRef: 1XTP2150003 T2 FROM: RFG DrwNo: 282.23.0832.04970 Qty: 1 Karlton-Inlaw Suite Truss Label: T1E KD / WHK 10/09/2023



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: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 L 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 N 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 R
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.007 R
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 2.0 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.208
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.041
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.102
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

▲ Maxii	▲ Maximum Reactions (lbs), or *=PLF							
	Gravity		N	Non-Gravity				
Loc R-	+ /R-	/ Rh	/ Rw	/ U	/ RL			
B* 152	· /-	/-	/75	/20	/35			
AM*149) <i> </i> -	/-	/69	/16	/-			
Wind re	actions b	ased on	MWFRS					
B Bro	Wid = 1	56 Min	Req = -					
AM Bro	Wid = 1	80 Min	Req = -					
Bearing	s B & AN	1 are a ri	gid surfac	e.				
Membe	rs not list	ed have	forces les	s than 3	375#			
Maximum Top Chord Forces Per Ply (lbs)								
Chords	Tens.C	omp.	Chords	Tens.	Ćomp.			
в-с	316	- 492	P-U	398	- 131			
G - L		- 144		312	-			

Lumber

Top chord: 2x4 SP M-31; 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.

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

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 7.00 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 or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 24" oc.

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

Wind loading based on both gable and hip roof types.

Additional Notes

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

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

The overall height of this truss excluding overhang is



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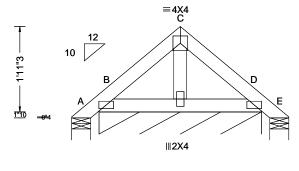
SEQN: 581499 FROM: RFG

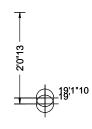
COMN Ply: 1 Qty: 25

Job Number: 23-9526A Karlton-Inlaw Suite Truss Label: TC1

Cust: R 215 JRef: 1XTP2150003 T5 DrwNo: 282.23.0832.07710 KD / WHK 10/09/2023







★ ^{7"7} ★	3'8	3"2 —	7"7
7"7_ _	1'10"1	1'10"1	-l- 7"7 _{-l}
7"7	2'5"7	4'3"8	4'10"15

Loading	Criteria (psf)
TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	
NCBCLL:	10.00
Soffit:	2.00
Load Dura	ation: 1.25
Spacing: :	24.0 "

Wind Criteria Wind Std: ASCE 7-16 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 20.04 ft TCDL: 4.2 psf BCDL: 2.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft

Loc. from endwall: Any

Wind Duration: 1.60

GCpi: 0.18

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

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

Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(CL): 0.000 D 999 180 HORZ(LL): 0.000 D HORZ(TL): 0.000 D Creep Factor: 2.0

Max TC CSI: 0.029 Max BC CSI: 0.014 Max Web CSI: 0.009

VIEW Ver: 22.02.00.0914.12

▲ N	laxim	um Rea	ctions (II	os), or *=	:PLF		
	G	avity	-	No	on-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
Α	2	/-	/-	/47	/41	/57	
В*	75	/-	/-	/58	/27	/-	
Е	2	/-	/-	/9	/3	/-	
Wir	nd read	ctions b	ased on N	/WFRS			
Α	Brg V	Vid = 5.	2 Min F	Req = 1.5	(Trus	s)	
В	Brg V	Vid = 44	I.1 Min F	Req = -	-	•	
Е	Brg V	Vid = 5.	2 Min F	Req = 1.5	(Trus	s)	
Bea	arings	A, B, &	E are a ri	gid surfa	ce.		
Mei	mbers	not liste	ed have fo	rces less	than	375#	

Lumber

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

Plating Notes

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

Loading

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

Wind

Wind loads based on MWFRS with additional C&C

Wind loading based on both gable and hip roof types.

Additional Notes

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

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 2-0-13.



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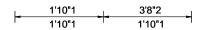
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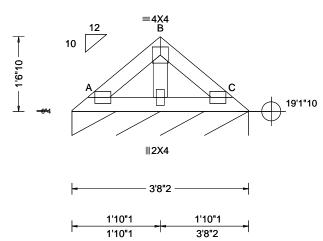
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SEQN: 581500 FROM: RFG

GABL Ply: 1 Qty: 2 Job Number: 23-9526A Karlton-Inlaw Suite Truss Label: TC1E

Cust: R 215 JRef: 1XTP2150003 T1 DrwNo: 282.23.0832.10323 KD / WHK 10/09/2023





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: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 C 999 240
DCLL. 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.002 C 999 180
10.00 IU.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 C
Dec 1 d 27 00	EXP: C Kzt: NA		HORZ(TL): 0.001 C
NCBCLL: 10.00	Mean Height: 20.07 ft TCDL: 4.2 psf	Building Code:	Creep Factor: 2.0
Soffit: 2.00	BCDL: 4.2 psf	FBC 7th Ed. 2020 Res.	Max TC CSI: 0.072
	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.060
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.018
'	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 22.02.00.0914.12

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /Rw /U /RL A* 150 /-Wind reactions based on MWFRS Brg Wid = 44.1 Min Req = Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 3X4(D1) except as noted.

Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 7.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Purlins

In lieu of rigid ceiling use purlins to brace BC @ 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.

Refer to DWG PB160160118 for piggyback details.

The overall height of this truss excluding overhang is 1-8-4.



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CLR Reinforcing Member Substitution

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

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.

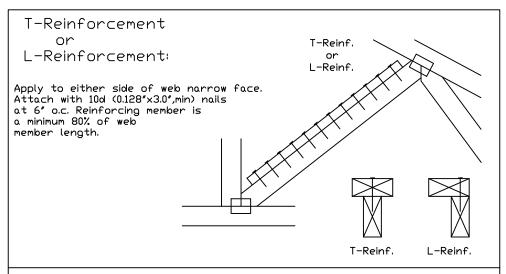
Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

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	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(米)		
2×8	1 row	2×6	1-2×8		
2×8	2 rows	2×6	2-2×6(米)		

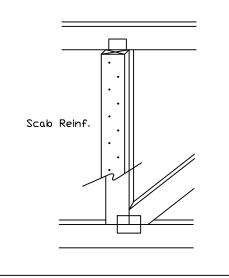
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

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



Scab Reinforcement:

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



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

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

STATE OF SOUND COA #0 278

TC LL PSF REF
TC DL PSF DAT
BC DL PSF DRW
BC LL PSF
TDT. LD. PSF

PVR097A63

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

Florida Certificate ACIM Guct Approval #FL 1999



Gable Stud Reinforcement Detail

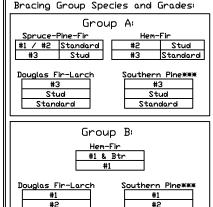
ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Or: 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	" Brace *	(2) 2×4 *L	Brace **	(1) 2×6 *L	" Brace *	(2) 2x6 L	Brace **
_	Spacing	Species	Grade	Braces	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
수 [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>	1.1	SPF	#3	4′ 1″	6′ 7 ″	7′ 1″	8′ 6 ″	8′ 10 ″	10′ 1″	10′ 6″	13′ 4″	13′ 10″	14′ 0″	14′ 0″
$ \; \geq \;$	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″
0.			#1	4′ 6″	7′ 4″	7′ 8 ″	8′ 8 ″	9′ 0″	10′ 4″	10′ 9 ″	13′ 8 ″	14' 0"	14′ 0″	14′ 0″
$ \bot $	*	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		#3	4′ 2″	6′ 0 ″	6′ 4″	7′ 11″	8′ 6 ″	10′ 2″	10′ 7″	12′ 5″	13′ 4″	14′ 0″	14′ 0″
	Ω	DFL	Stud	4′ 2 ″	6′ 0″	6′ 4″	7′ 11″	8′ 6 ″	10′ 2″	10′ 7″	12′ 5 ″	13′ 4″	14′ 0″	14′ 0″
설			Standard	4′ 0″	5′ 3″	5′ 7 ″	7′ 0 ″	7′ 6″	9′ 6″	10′ 2″	11′ 0″	11′ 10″	14′ 0″	14′ 0″
1.51			#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 1	-	SPF	#3	4′ 8″	8′ 1″	8′ 8 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0 ″	14′ 0″	14′ 0″	14′ 0 ″
;	Ō	HF	Stud	4′ 8 ″	8′ 1″	8′ 6 ″	9′ 8″	10′ 1″	11′ 7″	12′ 1″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
0	Ō	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″
\mathbb{I}^{ω}	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″
	. ^		#3	4′ 9″	7′ 4″	7′ 9″	9′ 9″	10′ 2 ″	11′ 8 ″	12′ 1 ″	14′ 0″	14' 0"	14′ 0″	14′ 0″
اسا	16	DFL	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″
		CDL	#1 / #2	5′ 5 ″	9′ 2″	9′ 6″	10′ 10 ″	11′ 3″	11′ 8″	13′ 5 ″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
전	-	SPF	#3	5′ 1 ′	9′ 0″	9′ 4″	10′ 8 ″	11′ 1″	12′ 9 ′	13′ 3″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
101	Ō	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″
$ \times $	0		#1	5′ 8 ″	9′ 3″	9′ 8″	10′ 11″	11′ 4″	13′ 0″	13′ 6 ″	14′ 0″	14' 0"	14' 0"	14′ 0″
	*	SP	#2	5′ 5 ″	9′ 2″	9′ 6″	10′ 10 ″	11′ 3″	12′ 11″	13′ 5 ″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
Σ	ù		#3	5′ 3 ″	8′ 5 ″	9′ 0″	10′ 9 ″	11′ 2″	12′ 10″	13′ 4″	14′ 0″	14′ 0″	14′ 0″	14′ 0″
-	10	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″



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.

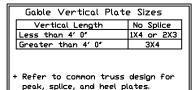
Gable Truss Detail Notes: Wind Load deflection criterion is 1/240.

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.

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. 2x4 DF-L #2 or better diagonal brace; single Vertical length shown or double cut in table above. (as shown) at upper end. Connect diagonal at midpoint of vertical web.

Continuous Bear Refer to charteabove for max

VARNINGI READ AND FOLLOW ALL NOTES ON THIS DRAVINGI
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Refer to drawings 160A-Z for standard plate positions.

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

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MAX. TOT. LD. 60 PSF 10/09/2023

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

™COA #0 278 Florida Certificate of Product Approval #FL 1999 MAX. SPACING 24.0"

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 Vertical Length \ typ. Example:

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

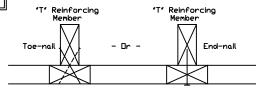
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, \$11515ENC100118, \$12015ENC100118, \$14015ENC100118, \$16015ENC100118, \$18015ENC100118, \$20015ENC100118, \$20015END100118, \$20015FED100118,

\$11530ENC100118, \$12030ENC100118, \$14030ENC100118, \$16030ENC100118, \$18030ENC100118, \$20030ENC100118, \$20030END001(8, \$20030PED10048)

See appropriate Alpine gable detail for maximum unreinforces gable vertical sength.

"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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COA #0 278

DATE 01/02/2018 DRWG GBLLETIN0118

LET-IN VERT

IREF

MAX. TOT. LD. 60 PSF

DUIR0/09/2023 ANY

Florida Certifica Xof PSPACINO prova 4#61 1999



Rigid Sheathing

Ceiling

4 Nails

Nails

Spaced At

4 Nails

Reinforcing

Member

Gable

Truss

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

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

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

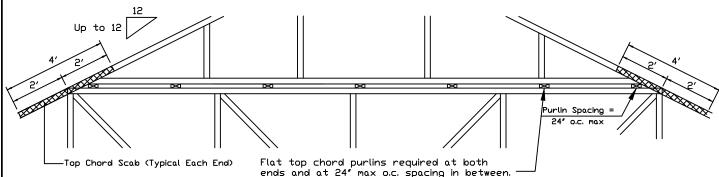
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0. Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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 nails (0.128"x3") at 4" o.c.

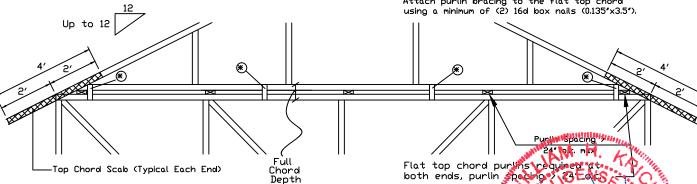
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

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

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

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

Attach purlin bracing to the flat top chord



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

* 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 (0.13'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 o.c. front to back faces.

28PB Wave Piggyback Plate

Dine 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' nails per face per ply.
Piggyback plates may be staggered 4' o.c. front

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DATE

to back faces.

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COA #0 278

DRWG PB160160118

PIGGYBACK

01/02/2018

10/09/2023

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