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COA #0 278 08/26/2020 Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com

Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B51211a
Job Description: -Brown Res Curt Burlingame	Jessica Brown
Address: LAKE CITY, FL	

Job Engineering Criteria:				
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01A  JRef #: 1WY58570001			
Wind Standard: ASCE 7-16 Wind Speed (mph): 140	Roof Load (psf): 20.00-7.00-0.00-10.00			
Building Type: Closed	Floor Load (psf): None			

This package contains general notes pages, 3 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	239.20.1007.00327	GE1
3	239.20.1007.12530	T-1
5	GBLLETIN0118	
7	PB180160118	

Item	Drawing Number	Truss
2	239.20.1007.09660	T-2
4	A14015ENC160118	
6	PB160160118	
8	REPCHRD1014	



# **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.

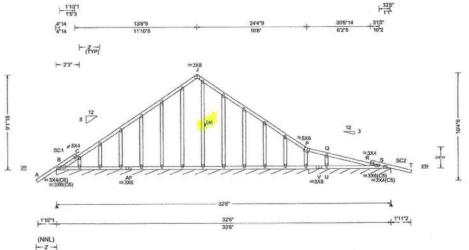
Refer to ASCE-7 for Wind and Seismic abbreviations.

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.
- 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.

Cust: R 857 JRef: 1WY58570001 T2 SEON: 16383 GABI Ply: 1 Job Number: B51211a DrwNo: 239.20.1007.00327 -Brown Res Curt Burlingame FROM: RNB Qty: 2 08/26/2020 Truss Label: GE1



Loading Criteria (psf)	Wind Criteria
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II
Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.25 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60

### Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria Ct: NA CAT: NA PP Deflection in loc L/defl L/# Pg: NA VERT(LL): 0.030 R 999 360 Pf: NA Ce: NA VERT(CL): 0.059 R 999 240 Lu: NA Cs: NA HORZ(LL): 0.011 L Snow Duration: NA HORZ(TL): 0.016 L Creep Factor: 2.0 **Building Code: FBC 2017 RES** Max TC CSI: 0.376 TPI Std: 2014 Max BC CSI: 0.230 Rep Fac: Varies by Ld Case Max Web CSI: 0.156 FT/RT:20(0)/0(0) Plate Type(s): VIEW Ver: 18.02.01A.0205.23 WAVE

AM		ium Rea Gravity	actions	(lbs), or *: N	on-Gra	vity
Loc	R+	/R-	/Rh	/ Rw	/U	/RL
B*	126	1-	1-	/55	/5	/16
S*	115	1-	1-	/52	1-	1-
V		/-101				
Win	d rea	actions b	ased or	MWFRS		
В	Brg	Width =	294	Min Re	eq = -	
S	Brg	Width =	96.0	Min Re	- = p	
Bea	rings	B&W	Fcperp	= 425psl.		
				forces les		
				orces Per		
Cho	rds	Tens.C	omp.	Chords	Tens.	Comp.
B - 0	C	466	- 300	R-S	370	- 559
0	D	121	122			

# Lumber

Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3: Stack Chord: SC1 2x4 SP #1;

## Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

# **Plating Notes**

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

## **Purlins**

In lieu of structural panels or rigid ceiling use purlins

to laterally	Diace cilorus as	lollows.	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	54	-1.92	2.00
TC	75	0.61	13.71
TC	75	13.71	24.38
TC	75	24.38	30.82
TC	52	30.20	34.46
BC	75	0.00	32.21
The second secon			

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

# 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" co. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using size.

# 131 -433 Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

- 132 486 - 143 U-S AF- V V-U 477

Maximum Gable Forces Per Ply (lbs) Gables Tens.Comp.

331 - 390



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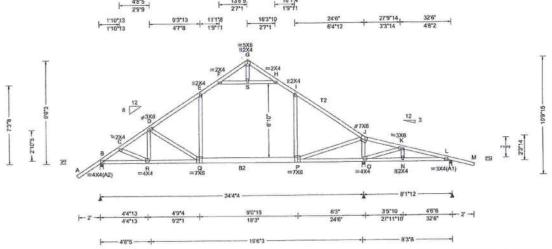
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Cust: R 857 JRef: 1WY58570001 T1 Job Number: B51211a SEQN: 61118 COMN Ply: 1 DrwNo: 239.20.1007.09660 Brown Res Curt Burlingame Qty: 9 FROM: CVB SSB / DF 08/26/2020 Truss Label: T-2



Loading Criteria (psf)	Wind Criteria
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 **	Wind Std: ASCE 7-16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.25 ft Loc. from endwall: Any GCpi: 0.18

Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria				
Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc	L/defl	L/#
Pf: NA		Ce: NA	VERT(LL): 0.363	Q	805	360
Lu: NA	Cs: NA		VERT(CL): 0.786	Q	371	240
Snow Du	uration: N	Δ.	HORZ(LL): 0.230	) E		-
		v.	HORZ(TL): 0.507		-	
Building	Code:		Creep Factor: 2.0	)		
FBC 201			Max TC CSI: 0	997		
TPI Std:	2014		Max BC CSI: 0	974	į.	
Rep Fac	: Yes		Max Web CSI: 0	453	3	
	0(0)/0(0)					
Plate Ty						
WAVE		VIEW Ver: 18.02.01A.0205.19				

Gravity			(lbs) N	on-Gra	vity	
Loc	R+	/R-	/Rh	/Rw	/U	/RL
В	1254	1-	1-	/751	/280	/356
0	1405	1-	1-	/872	/316	1-
L	645	1-	1-	/331	/251	1-
Win	d read	tions b	ased on	<b>MWFRS</b>		
В	Brg V	Vidth =	3.5	Min Re	q = 1.6	5
0	Brg V	Vidth =	3.5	Min Re	q = 1.8	3
L	Brg V	Vidth =	3.0	Min Re	q = 1.5	5
Bea	rings	B. O. &	L Fcpe	p = 425ps	i.	
Mer	nbers	not list	ed have	forces les	s than	375#
Max	cimun	Top (	hord F	orces Per	Ply (lb	s)
				Chords		
D .	^	432	16/13	H-I	534	- 107

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

## **Plating Notes**

Plates sized for a minimum of 3.50 sq.in./piece.

In lieu of structural panels or rigid ceiling use purlins

o laterally	brace chords as	follows:	
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	29	-2.08	13.71
TC	61	13.71	24.50
TC	63	24.50	34.54
BC	75	0.15	32.38
BC	64	11.04	16.38

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

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

# Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Attic room loading from 9-5-9 to 17-11-8: Live Load: 30 PSF. Dead Load: 5 PSF Ceiling: 5 PSF, Kneewalls: 5

Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL.

# Wind

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

Wind loading based on both gable and hip roof types.

B-C	432 - 1643	H-1	534	-1079
C-D	590 - 1719	I-J	482	- 1426
D-E	554 - 1488	J-K	762	-937
E-F	501 - 1023	K-L	754	- 1284

#### Maximum Bot Chord Forces Per Ply (lbs) Chords Tens. Comp. Chords Tens.Comp. 930 -723 B-R 1259 -640 0 - N 1214 -733 R-Q 1464 -512 1096 - 138 N-L 1221 -730 Q-P

#### Maximum Web Forces Per Ply (lbs) Webs Tens. Comp. - 147 -490 I-P 485 D-Q -457 1095 Q-E 617 - 111 P-J 1-0 572 - 1252 F-S 651 - 1306 -438 237

0-K

651 - 1306

S-H



08/26/2020

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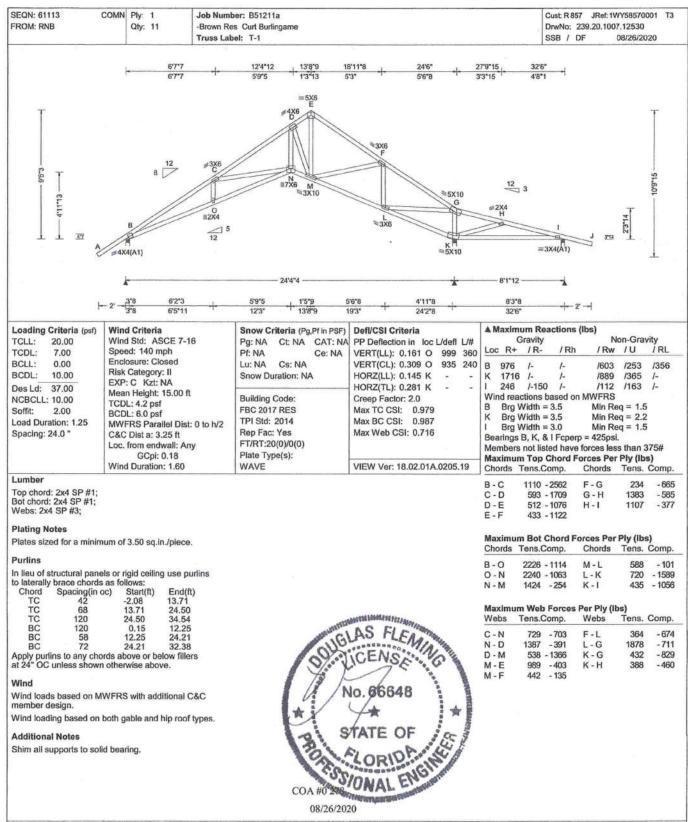
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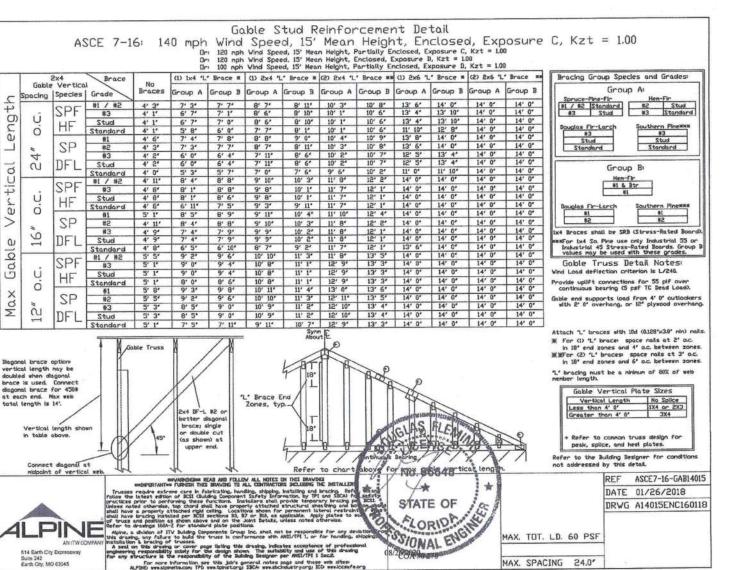
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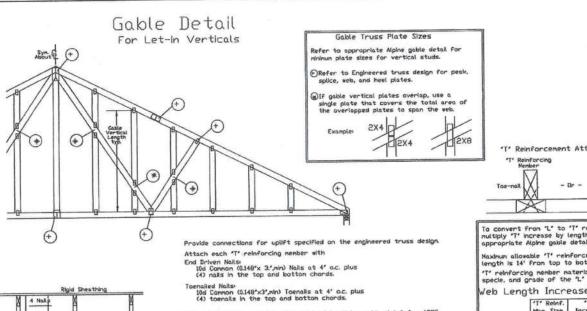
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6750 Forum Drive Suite 305 Orlando FL, 32821





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

nd load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13003051014, A120130501014, A11030051014, A10030051014, A14030051014
ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030FD100118,
S18015ENC100118, S20030ENC100118, A20030END100118, A20030FD100118,
S18015ENC100118, S20015ENC100118, S20015END100118, B20015END10018,
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S18030ENC100118, S20030ENC100118, S20030ENC10018, S20030ENC

See appropriate Alpine gable detail for nax

'T' Reinforcement Attachment Detail "T" Reinforcing

To convert from 'L' to 'T' reinforcing nembers, nultiply '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

der mire	case m			
'T' Reinf.	*T*			
Hor. Size	Increase			
2x4	30 %			
246	20 %			

xanple: EXR | CU n |
ASCE 7-10 Vind Speed = 120 nph |
Mean Roof Helpht = 30 ft, Kzt = 1.00 |
Gable Vertical = 24'oc. SP #3 |
'1' Reinforcing Nember Size = Ex4 |
'1' Brace Increase (From Above) = 30% = 1.30 |
(1) 2x4 '1." Brace Length = 8' 7' |
Maxhun '1' Reinforced Gable Vertical Length |
1.30 x 8' 7' = 11' 2'

514 Earth City Expressway Suite 242 Earth City, MO 63045

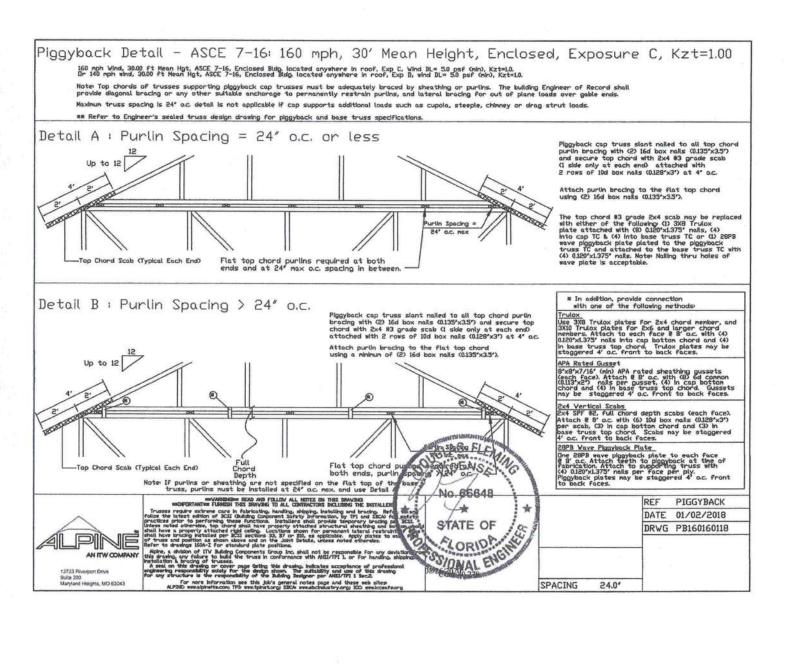
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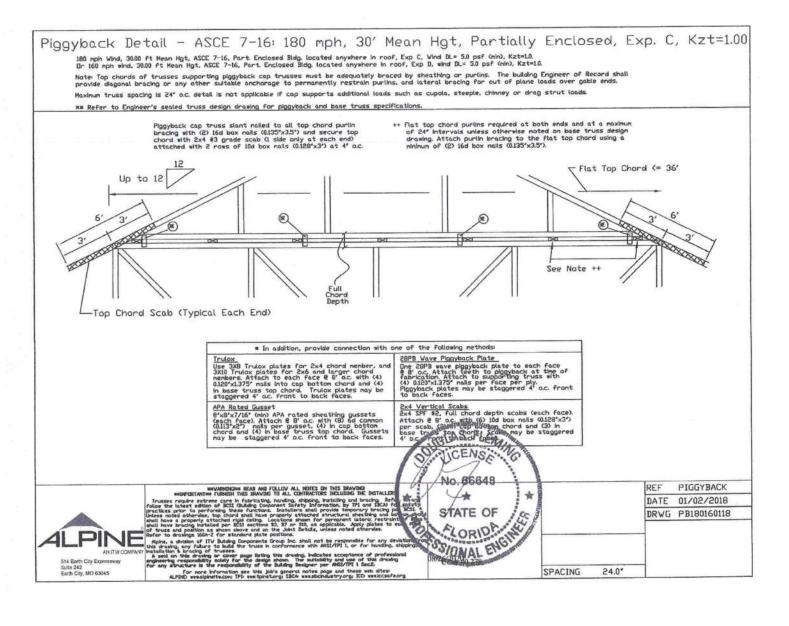
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No. 66848 STATE OF CORIO STONAL ENG

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

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





# Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chard or web nember.

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

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

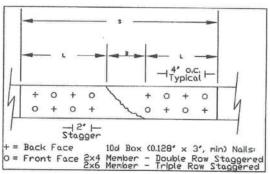
Scab member length (S) must be within the broken panel. Nail into 2x4 members using two (2) rows at 4' a.c., rows staggered. Nail into 2x6 members using three (3) rows at 4' a.c., rows staggered. Nail using 10d box or gun nails (0.128'x3', min) into each side member.

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

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

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

Broken chord may not support any tie-in loads.



Nail Spacing Detail

SEASON OF SECTION OF S

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

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

