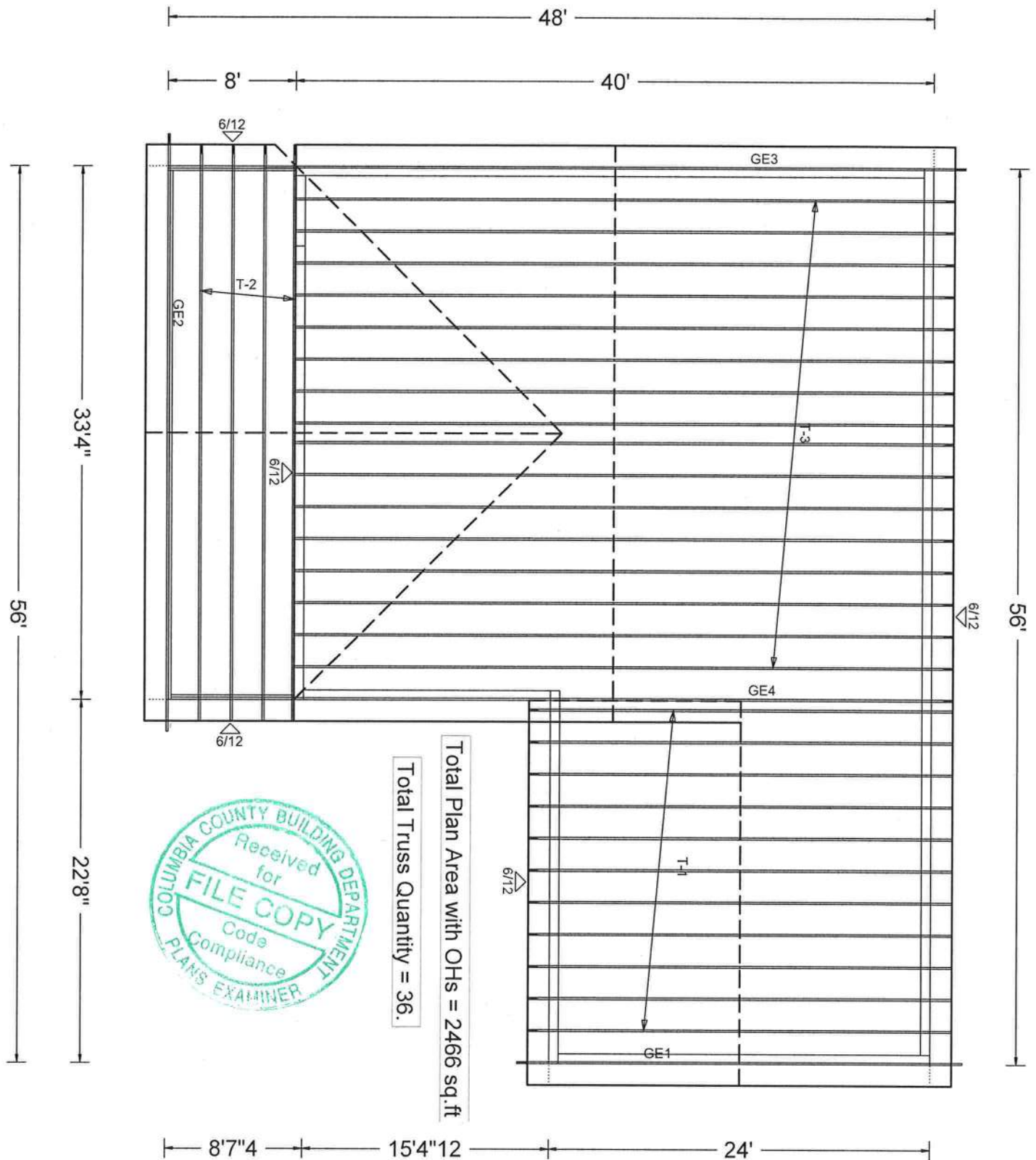




Job Name: Stone Res - side bldg
 Customer: Curt Burlingame
 Designer: Eric Barineau
 PlanName: Trademark Const
 Created : 06-19-2018
 SemRef# : B47717ab





Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32837
Phone: (800)755-6001
alpineitw.com

Site Information:

Customer: Seminole Trusses, Inc.	Job Number: B47717ab
Job Description: Stone Res - side bldg -Stone Res - side bldg Curt Burlingame	
Address:	City, State, Zip: Lake City, FL

Name, Address and License # of Structural EOR if one exists for the building:

Name:	License #:	State:
Address:	City, State, Zip:	

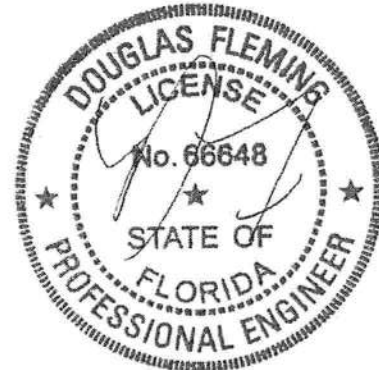
Job Engineering Criteria:

Design Code: FBC 2017 RES	View Version: 17.02.02.1213.20	JRef #: 1WbZ8570001
Wind Standard: ASCE 7-10	Wind Speed (mph): 130	Roof Load (psf): 20.00- 7.00- 0.00- 10.00 Floor Load (psf): None

This package contains a job notes page, 7 truss drawings and 4 details.

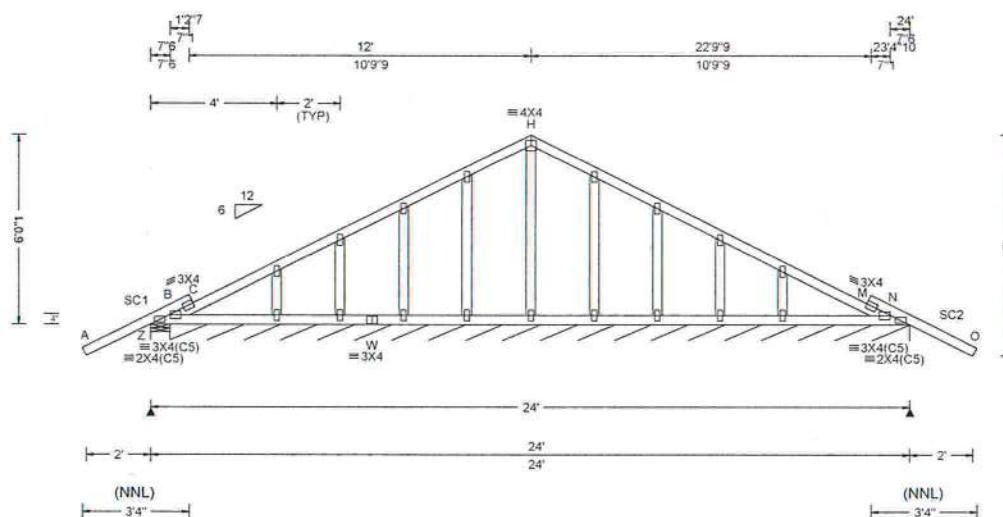
Item	Seal #	Truss
1	171.18.1454.42490	GE1
3	171.18.1454.46930	GE3
5	171.18.1454.50617	T-1
7	171.18.1455.01473	T-3

Item	Seal #	Truss
2	171.18.1454.44360	GE2
4	171.18.1454.48970	GE4
6	171.18.1454.58650	T-2



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

06/21/2018



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R /U /Rw /Rh /RL /W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): -0.006 C 999 360	Z 413 /137 /266 /- /284 /7.2
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.011 M 999 240	B* 106 /23 /43 /- /- /280
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.003 J - -	Wind reactions based on MWFRS
	EXP: C		HORZ(TL): 0.004 J - -	Z Min Brg Width Req = 1.5
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B Min Brg Width Req = -
NCBCLL: 10.00	TCDL: 4.2 psf	Code / Misc Criteria	Max TC CSI: 0.453	Bearings Z & B are a rigid surface.
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.086	Members not listed have forces less than 375#
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.144	Maximum Top Chord Forces Per Ply (lbs)
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Factors Used: Yes		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: Any	FT/RT:20(0)/0(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 17.02.02A.1213.20	B - C 503 -452 H - M 423 -76

Lumber

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #1:
:Stack Chord SC2 2x4 SP #1:

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Loading

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.

Purlins

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

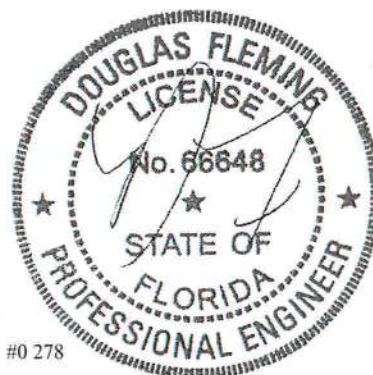
Wind

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

Additional Notes

See DWGS A14015ENC101014 & 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.



06/21/2018

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

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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information, by IP and SPS for the practices proper to perform the above conditions. The installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a 9" x 9" attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B4, B5 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

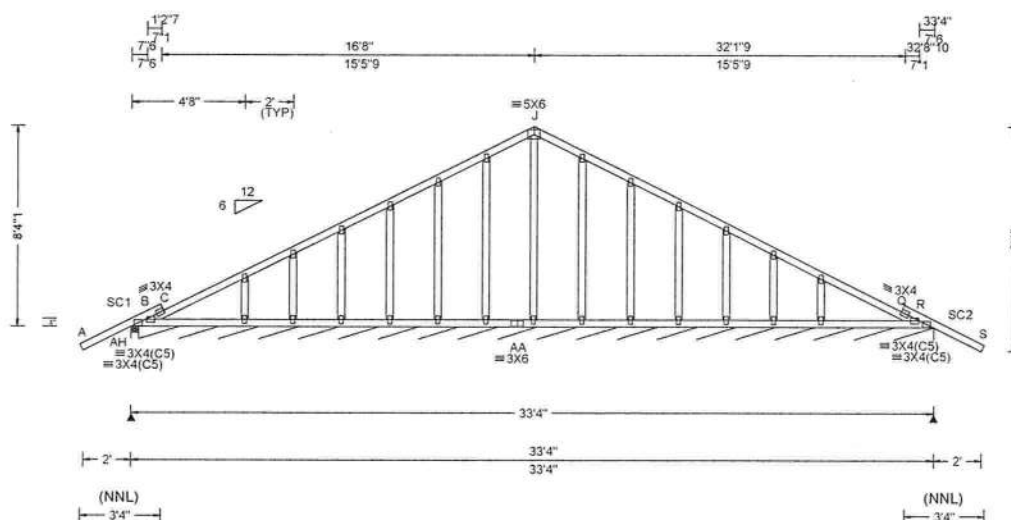
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6750 Forum Drive
Suite 305
Orlando FL 32821

Cust: R857 JRef: 1WbZ8570001
DrwNo: 171.18.1454.44360
SSB / DF 06/20/2018



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R /U /Rw /Rh /RL /W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(TL): 0.008 Q 999 360	AH 424 /124 /250 /- /375 /3.5
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(LL): 0.015 Q 999 240	AH*112 /23 /41 /- /- /396
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 P - -	Wind reactions based on MWFRS
	EXP: C		HORZ(TL): 0.007 N - -	AH Min Brg Width Req = 1.5
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor: 2.0	AH Min Brg Width Req = -
NCBCLL: 10.00	TCDL: 4.2 psf	Code / Misc Criteria	Max TC CSI: 0.453	Bearings AH & AH are a rigid surface.
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.095	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.419	
Spacing: 24.0 "	C&C Dist a: 3.33 ft	Rep Factors Used: Yes		Members not listed have forces less than 375#
	Loc. from endwall: Any	FT/RT:20(0)0(0)		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 17.02.02A.1213.20	B - C 656 -640 J - Q 523 -103
				C - J 512 -245 Q - R 527 -636

Lumber

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #1:
:Stack Chord SC2 2x4 SP #1:

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Loading

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.

Purlins

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

Wind

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

Additional Notes

See DWGS A14015ENC101014 & 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.



#0 278

06/21/2018

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

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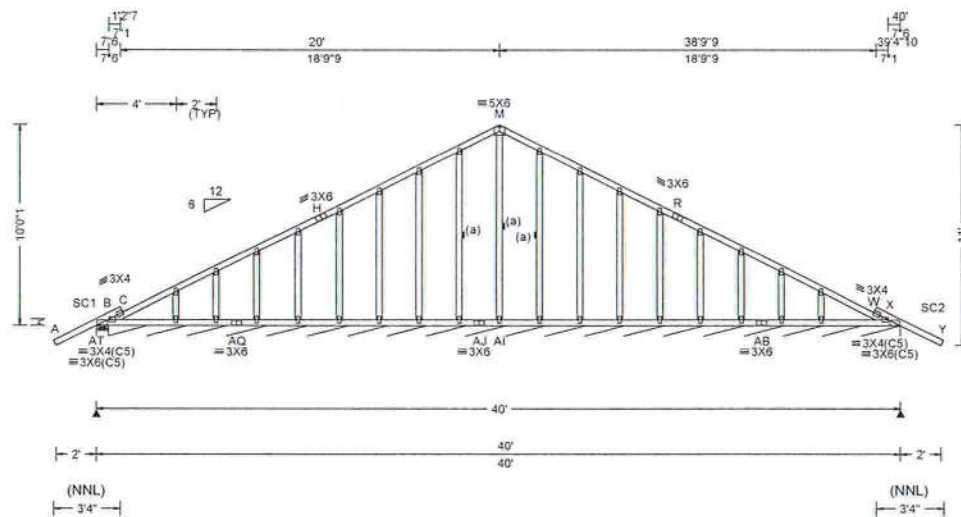
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R / U / Rw / Rh / RL / W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): -0.007 C 999 360	AT 419 / 125 / 238 / - / 450 / 7.3
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): -0.012 C 999 240	B* 119 / 24 / 41 / - / - / 472
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 U - -	Wind reactions based on MWFRS
	EXP: C		HORZ(TL): 0.010 Q - -	AT Min Brg Width Req = 1.5
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B Min Brg Width Req = -
NCBCLL: 10.00	TCDL: 4.2 psf	Code / Misc Criteria	Max TC CSI: 0.453	Bearings AT & B are a rigid surface.
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.106	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.435	
Spacing: 24.0 "	C&C Dist a: 4.00 ft	Rep Factors Used: Yes		Members not listed have forces less than 375#
	Loc. from endwall: Any	FT/RT:20(0)/0(0)		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 17.02.02A.1213.20	B - C 578 - 548 M - R 595 - 85

Lumber

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #1:
:Stack Chord SC2 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.

Loading

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.

Purlins

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

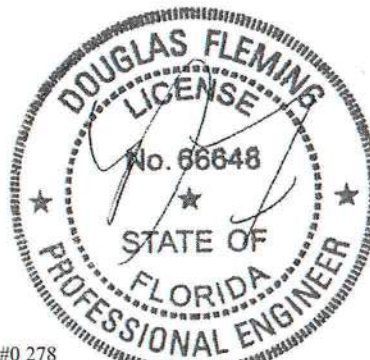
Wind

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

Additional Notes

See DWGS A14015ENC101014 & 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.



#0 278

06/21/2018

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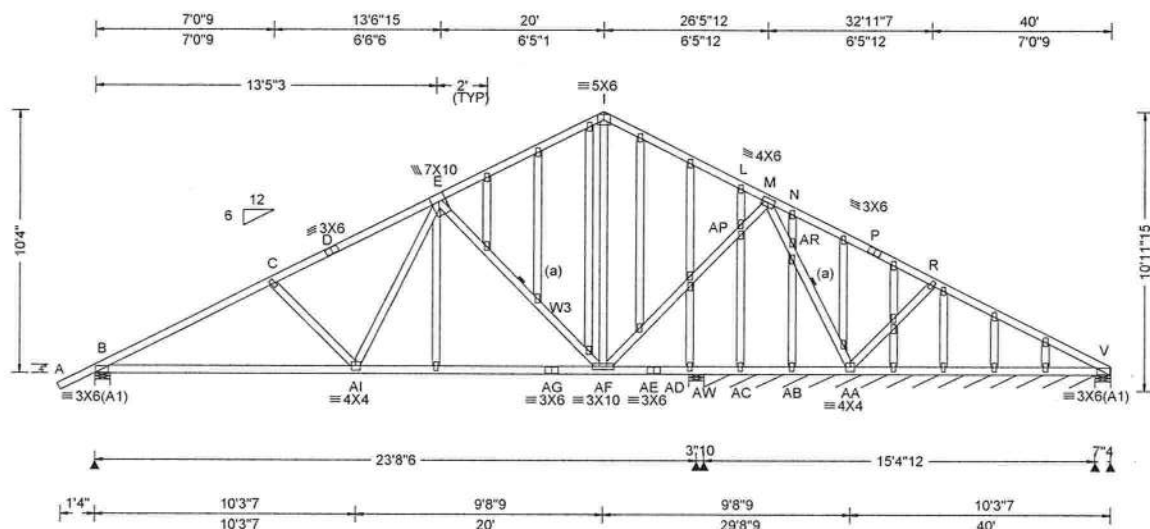
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6750 Forum Drive
Suite 305
Orlando FL, 32821

Job Number: B47717ab	Ply: 1	SEQN: 36752 / T7	GABL	Cust: R857	JRef: 1WbZ8570001
Stone Res - side bldg - Stone Res - side bldg Curt Burlingame	Qty: 1	FROM: CVB		DrwNo: 171.18.1454.48970	
Truss Label: GE4				SSB / DF	06/20/2018



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pfin PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc R / U / Rw / Rh / RL / W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.138 G 999 360	B 1529 / 315 / 766 / - / 409 / 7.3
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.449 G 951 240	AD 458 / 106 / 184 / - / - / 7.2
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.044 G - -	AW195 / 39 / 69 / - / - / 184
Des Ld: 37.00	EXP: C		HORZ(TL): 0.093 G - -	V 38 / 104 / 55 / - / - / 7.3
NCBCLL: 10.00	Mean Height: 15.06 ft		Creep Factor: 2.0	V / 104
Soffit: 0.00	TCDL: 4.2 psf		Max TC CSI: 0.714	Wind reactions based on MWFRS
Load Duration: 1.25	BCDL: 5.2 psf		Max BC CSI: 0.678	B Min Brg Width Req = 1.9
Spacing: 24.0"	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.725	AD Min Brg Width Req = 1.5
	C&C Dist a: 4.00 ft			AW Min Brg Width Req = -
	Loc. from endwall: not in 6.06 ft			V Min Brg Width Req = 1.5
	GCpi: 0.18			Bearings B, AD, AW, & V Fcperp = 425psi.
	Wind Duration: 1.60			
		Code / Misc Criteria	VIEW Ver: 17.02.02A.1213.20	
		Bldg Code: FBC 2017 RES		
		TPI Std: 2014		
		Rep Factors Used: Yes		
		FT/RT:20(0)/0(0)		
		Plate Type(s):		
		WAVE		

Lumber

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3 :W3 2x4 SP #1:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Loading

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.

Additional Notes

See DWGS A14030ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.



#0 278

06/21/2018

Members not listed have forces less than 375#

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	562 - 2522	L - M	260 - 633
C - D	507 - 2081	M - N	555 - 75
D - E	531 - 1972	N - P	746 - 82
E - I	347 - 901	P - R	675 - 112
I - L	375 - 803	R - V	522 - 179

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - AI	2153 - 411	AG - AF	1476 - 243
AI - AG	1476 - 243	AA - V	201 - 392

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - AI	243 - 622	AF - M	1251 - 204
AI - E	591 - 165	M - AA	169 - 1034
E - AF	406 - 1258		

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
AP - AC	118 - 490	AR - N	143 - 595
L - AP	115 - 483	AB - AR	194 - 779

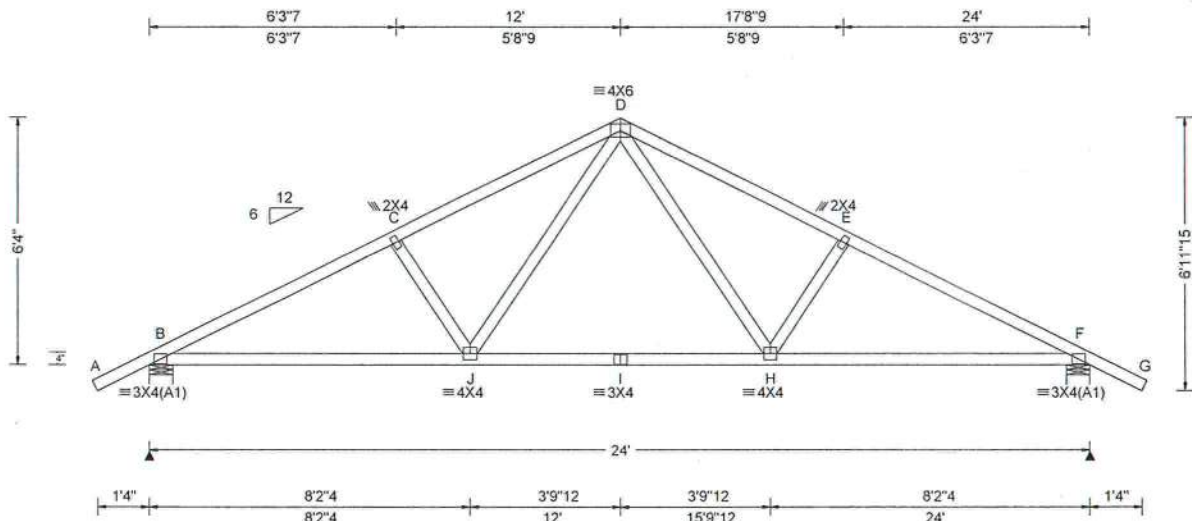
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Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R / U / Rw / Rh / RL / W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.052 J 999 360	B 986 / 213 / 561 / - / 189 / 7.2
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.140 J 999 240	F 986 / 213 / 561 / - / 17.3
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.021 H - -	Wind reactions based on MWFRS
	EXP: C		HORZ(TL): 0.038 H - -	B Min Brg Width Req = 1.5
Des Ld: 37.00	Mean Height: 15.00 ft		Creep Factor: 2.0	F Min Brg Width Req = 1.5
NCBCLL: 10.00	TCDL: 4.2 psf	Code / Misc Criteria	Max TC CSI: 0.245	Bearings B & F Fcperp = 425psi.
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.528	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.244	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Factors Used: Yes		Members not listed have forces less than 375#
	Loc. from endwall: Any	FT/RT: 20(0)/0(0)		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 17.02.02A.1213.20	B - C 749 - 1534 D - E 750 - 1362
				C - D 750 - 1362 E - F 749 - 1534

Lumber

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

Plating Notes

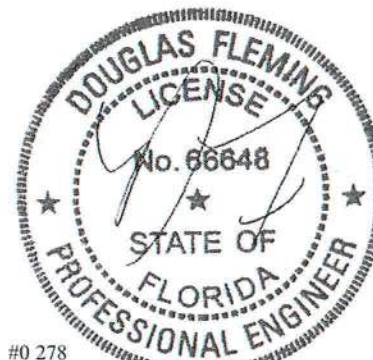
Plates sized for a minimum of 3.50 sq.in./piece.

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.



#0 278

06/21/2018

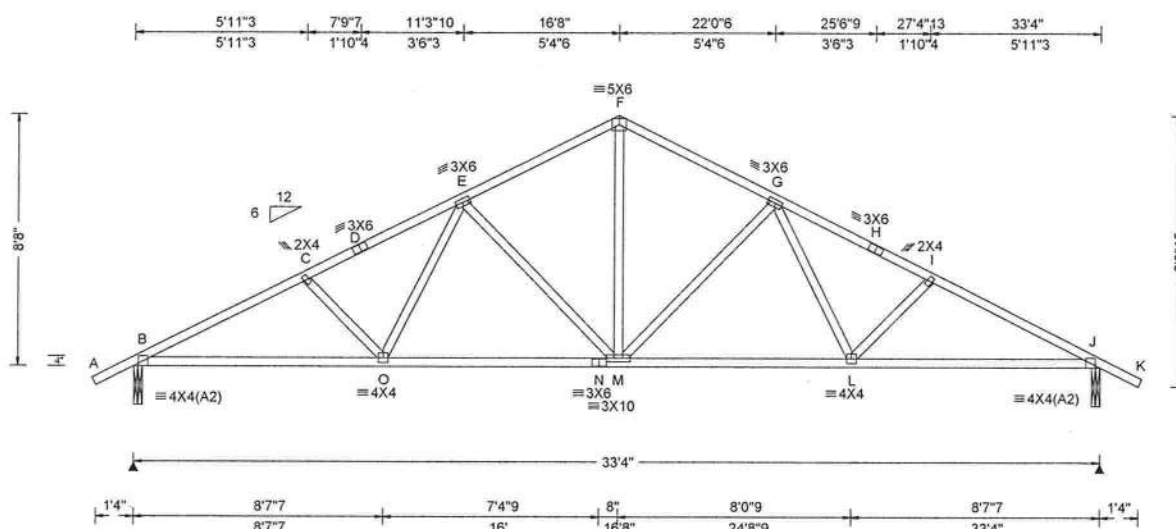
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IMPORTANT - FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Institute) BCSI-1001 for all bracing practices. Truss installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have proper attached structural sheathing and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc R / U / R/w / Rh / RL / W
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.112 M 999 360	B 1339 / 286 / 758 / - / 254 / 3.5
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.301 M 999 240	J 1339 / 286 / 758 / - / - / 3.5
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.045 L - -	Wind reactions based on MWFRS
	EXP: C		HORZ(TL): 0.084 L - -	B Min Brg Width Req = 1.7
Des Ld: 37.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	J Min Brg Width Req = 1.7
NCBCLL: 10.00	BCDL: 4.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.243	Bearings B & J Fcper = 425psi.
Soffit: 0.00	BCDL: 5.2 psf	TPI Std: 2014	Max BC CSI: 0.641	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Factors Used: Yes	Max Web CSI: 0.646	
Spacing: 24.0 "	C&C Dist a: 3.33 ft	FT/RT:20(0)/0(0)		Members not listed have forces less than 375#
	Loc. from endwall: Any	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	GCpi: 0.18	WAVE	VIEW Ver: 17.02.02A.1213.20	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: 1.60			B - C 1099 -2299 F - G 864 -1471
Lumber				C - D 1042 -2087 G - H 1056 -2039
Top chord 2x4 SP #1				D - E 1056 -2039 H - I 1042 -2087
				E - F 864 -1471 I - J 1099 -2299

Lumber

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

Plating Notes

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

Loading

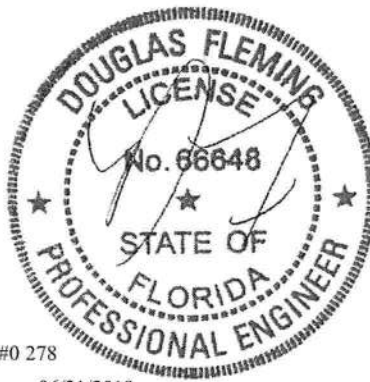
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

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

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
B - O	1998	- 828	M - L	1636	- 631
O - N	1636	- 617	L - J	1998	- 843
N - M	1636	- 617			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
O - E	451	- 149	M - G	376	- 550
E - M	376	- 550	G - L	451	- 149
F - M	955	- 482			



#0 278

06/21/2018

****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 SBICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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

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



Gable Stud Reinforcement Detail

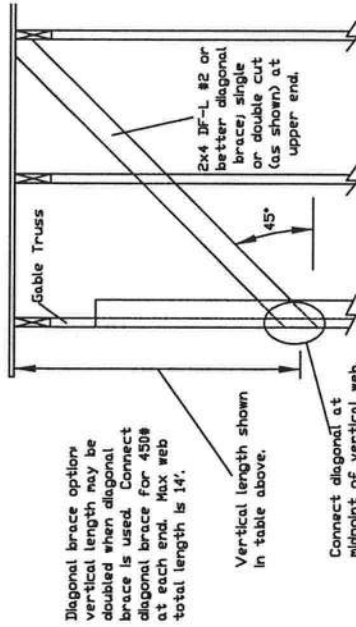
ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Exposure C, Kzt = 1.00

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

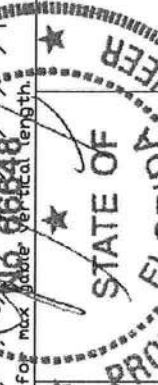
Max Gable Vertical Length		2x4 Gable Vertical Spacing		Brace		No Braces		(1) 1x4 'L' Brace		(2) 2x4 'L' Brace		(1) 2x6 'L' Brace		(2) 2x6 'L' Brace	
Spacing	Species	Grade	#1 / #2	#3	Stud	Standard	#1	#2	#3	Stud	Standard	#1	#2	#3	Stud
12" O.C.	SPF	R4" O.C.	4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	HF		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	SP		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	DFL		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
16" O.C.	SPF	R4" O.C.	4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	HF		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	SP		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	DFL		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
12" O.C.	SPF	R4" O.C.	4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	HF		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	SP		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"
	DFL		4' 3"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"



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

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max brace vertical length.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpinehvac.com TPI: www.tpiinc.org SDC: www.sdcindustry.org ICC: www.iccsafe.org

Bracing Group Species and Grades:			
Group A:		Group B:	
Species-Pine-Fir	Hen-Fir	Species-Pine-Fir	Hen-Fir
#1 / #2 Standard	#2 Standard	#1 / #2 Standard	#2 Standard
Stud	Stud	Stud	Stud
Douglas Fir-Larch		Douglas Fir-Larch	
#3 Standard	#3 Standard	#3 Standard	#3 Standard
Southern Pine		Southern Pine	
#3 Standard	#3 Standard	#3 Standard	#3 Standard

1x4 Braces shall be SPS (Stress-Rated Board), or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind load deflection criterion is L/240.

Provide uplift connections for 55 psf 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 (128"x3.0" nh) nails.
* For (1) 'L' brace: space nails at 2' o.c.
In 18" end zones and 4' o.c. between zones.
* For (2) 'L' brace: space nails at 3' o.c.
In 18" end zones and 6' o.c. between zones.
* 'L' bracing must be a minimum of 80% of web member length.

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

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

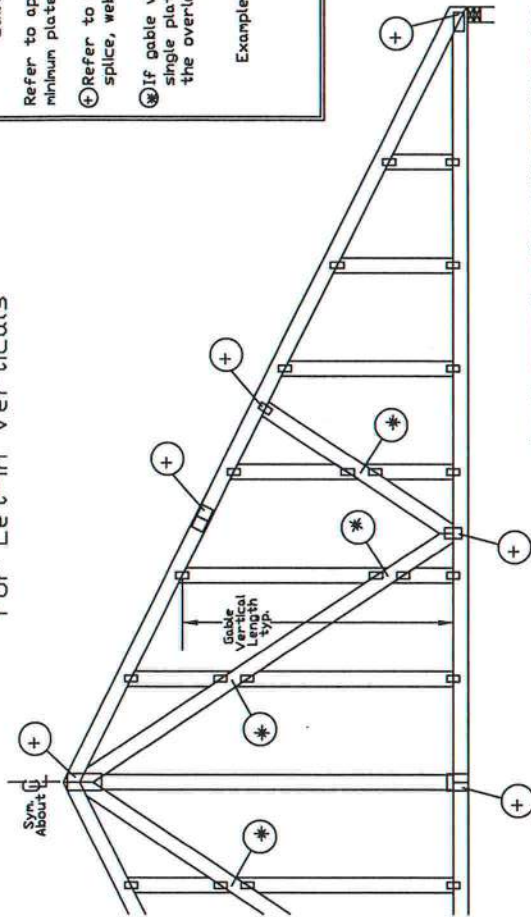
Refer to the Building Designer for conditions not addressed by this detail.

REF	ASCE7-10-GAB14015
DATE	10/01/14
DRWG	A14015ENC101014

TOT. LD.	60 PSF
MAX. SPACING	24.0"

#0 778 06/21/2018

Gable Detail For Let-in Verticals



Gable Truss Plate Sizes

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

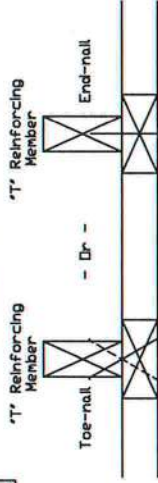
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

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

Example:



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.

T Reinf. Mbr. Size	*T* Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 100

Gable Vertical = 24' o.c. SP #3

T Reinforcing Member Size = 2x4

T Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum '*T*' Reinforced Gable Vertical Length

1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each '*T*' reinforcing member with

End Driven Nails:

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

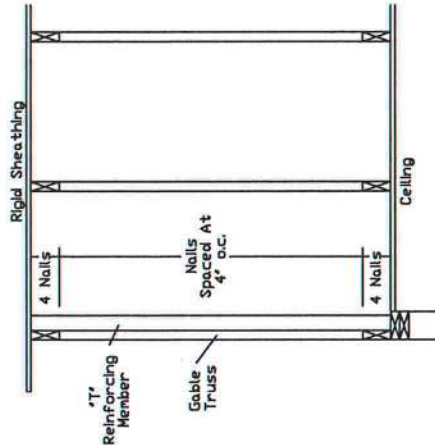
(4) nails in the top and bottom chords.

Toenailed Nails:

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

(4) toenails in the top and bottom chords.

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



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

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Refer to drawings 160A-2 for standard plate positions.

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

Alpine warrants that the design and engineering of the truss shown in this drawing is the responsibility of the building designer per ANSI/TPI 1 Sec.2.

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

ALPINE: www.alpineinc.com TPI: www.tpiusa.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org



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REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLEIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

#0 278 06/21/2018



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:

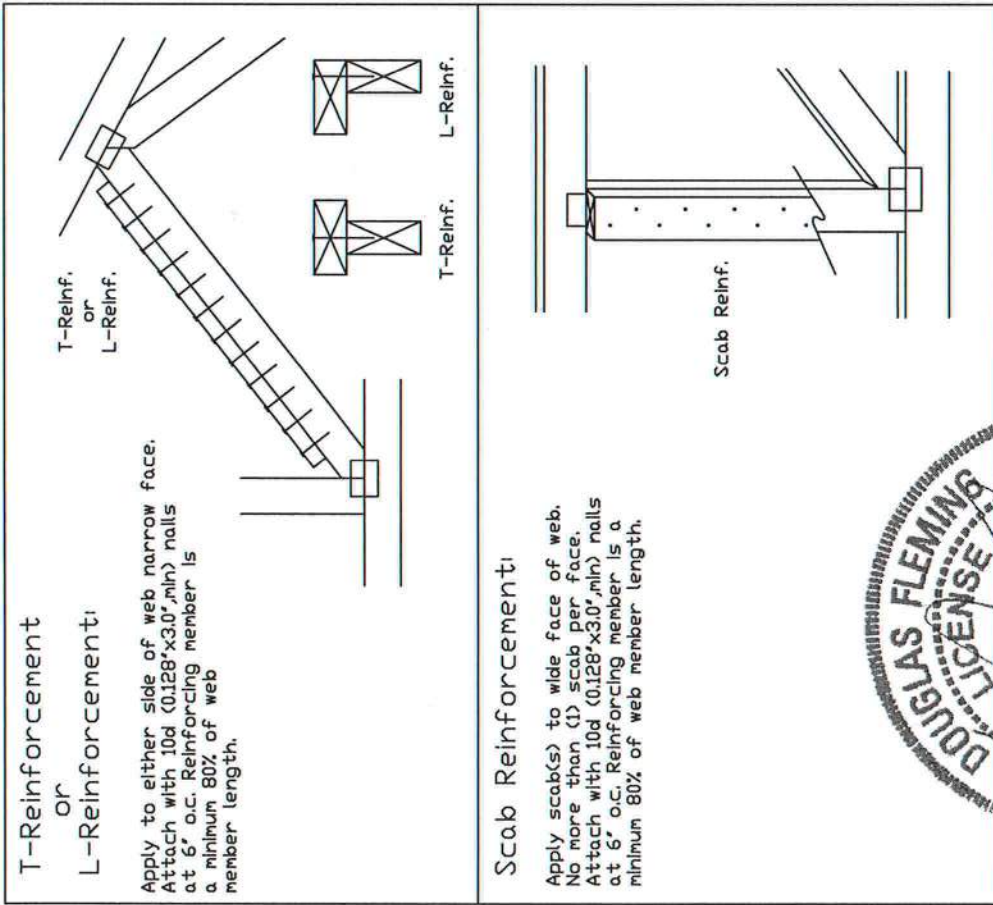
This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

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

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

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.



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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, bracing or covering of trusses.

A seal on this drawing or cover page listing the drafter, indicates acceptance of professional engineering responsibility. The drafter is responsible for the accuracy of the drawing and the design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpinehqs.com TPI: www.tpi.net BCSI: www.bcsinfo.org ICC: www.iccsafe.org

DOUGLAS FLEMING
LICENSE
No. 66648
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DUR. FAC.
SPACING

REF	CLR	Subst.
DATE	10/01/14	
DRWG	BRCLBSUB1014	
PSF		
PSF		
PSF		
PSF		