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11/04/2024 ABCD Engineering, PLLC NC COA 0838

Site Information:	Page 1:
Customer: Structural Building Solutions LLC	Job Number: Q2410-340
Job Description: The Farm at Neills Creek	
Address: 515 Winding Creek Dr, Lillington, NC 27546	

Job Engineering Criteria:									
Design Code: IRC 2021	IntelliVIEW Version: 23.02.04A								
	JRef #: 1Y4O98360009								
Wind Standard: ASCE 7-16 Wind Speed (mph): 120	Design Loading (psf): 40.00								
Building Type: Closed									

This package contains general notes pages, 35 truss drawing(s) and 7 detail(s).

ltem	Drawing Number	Truss	Item	Drawing Number	Truss
1	309.24.1104.51343	G1A	2	309.24.1104.51389	PB2
3	309.24.1104.51030	G1	4	309.24.1104.50857	G1G
5	309.24.1104.50812	PB2G	6	309.24.1104.51312	F1
7	309.24.1104.51155	P1	8	309.24.1104.50478	B1
9	309.24.1104.50655	C1	10	309.24.1104.51468	B1G
11	309.24.1104.51453	VC2	12	309.24.1104.51124	F1G
13	309.24.1104.50905	VC1	14	309.24.1104.51499	C1G
15	309.24.1104.51264	P1G	16	309.24.1104.50794	C1D
17	309.24.1104.50319	V1	18	309.24.1104.51249	V4
19	309.24.1104.50098	V2	20	309.24.1104.50936	V5
21	309.24.1104.50542	V3	22	309.24.1312.59467	A2A
23	309.24.1104.50160	PB3	24	309.24.1104.51078	A1A
25	309.24.1313.01800	A2G	26	309.24.1104.51218	PB3G
27	309.24.1104.51015	A1G	28	309.24.1104.50999	PB1G
29	309.24.1104.50351	A1T	30	309.24.1312.57137	A2
31	309.24.1313.15260	A2T	32	309.24.1312.54203	A1P
33	309.24.1104.50765	PB1	34	309.24.1311.03130	A1
35	309.24.1104.50700	VA5	36	A12015ENC160118	
37	A12030ENC160118		38	BRCLBSUB0119	
39	GABRST160118		40	GBLLETIN0118	
41	PB160160118		42	VALTN160118	

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. The Truss Design Engineer. The Truss Design Engineer 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 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.

Bearing Information:

The bearing area factor, Cb, is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

General Notes (continued)

Coated Lumber:

Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

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.

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.

C = Coated lumber.

C-AT = AtTEK coated lumber.

C-FX = FX Lumber Guard coated lumber.

C -TE = TechWood 4400 coated lumber.

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-BF = Boraflame 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-ON = OnWood 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).

General Notes (continued)

Key to Terms (continued):

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: 7222 / FROM:	COMN Ply: 1 Jot Qty: 1 The	• Number: Q2410-340 • Farm at Neills Creek			Cust: R 9836 JRef: 11 DrwNo: 309.24.110	(4O98360009 T5 / 4.51343 11/04/2024
		<u>- 8'5'6 - </u> ↓ 1 8'5'6 - ↓ 3	116*10 <u>20'</u> '11'3 8'5'6 ≋6X6	-1	,	
		10 12 (a) 10		xs		
	<mark>⊢1'</mark>	- 8'5"6 - - 2' 8'5"6 - - 11	11"7 8'7"2 '4"14 20'	-+ + ^{1'} +		
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15	Wind Criteria Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II EXP: C K2t: NA Mean Height: 17.17 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Lu: - Cs: varies Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.010 D 999 240 VERT(CL): 0.022 D 999 240 HORZ(LL): 0.007 C - - HORZ(LL): 0.010 C - - Creep Factor: 2.0 Max TC CSI: 0.781 Max BC CSI: 0.598 14	▲ Maximum Re Gravity Loc R+ / R- J 931 /- G 931 /- Wind reactions J Brg Wid =: G Brg Wid =: Bearings J & G Members not lis	eactions (Ibs) / Nh / Rw /- /517 /- /517 based on MWFRS 3.5 Min Req = 1. 3.5 Min Req = 1. are a rigid surface. sted have forces les	lon-Gravity /U /RL /57 /379 /57 /- .5 (Truss) .5 (Truss)
Spacing: 24.0 "	C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Max Web CSI: 0.541	Maximum Top Chords Tens.0	Chord Forces Per Comp. Chords	r Ply (lbs) Tens. Comp.
Lumber Top chord: 2x4 SP SS Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Bracing (a) Continuous lateral member.	Wind Duration: 1.60 5; T2 2x4 SP #2; restraint equally spaced on	WAVE	VIEW Ver: 23.02.04A.0207.13	B - C 211 C - D 295 Maximum Bot Chords Tens.C I - H 430 Maximum Wet	- 706 D - E - 416 Chord Forces Per Comp. - 143 Forces Per Ply (I	210 - 707 • Ply (lbs) bs)
Loading Design Dead Loads by for slope: BC: 7.00 PS Bottom chord checked live load.	ased on material weight adjus SF I for 10.00 psf non-concurrent	ted		Webs Tens.(B - J 269 B - I 426	-856 H-E -49 E-G	425 - 50 270 - 854
Purlins In lieu of rigid ceiling u oc. Wind Wind loads based on member design. End verticals exposed meets L/180. Wind loading based o	use purlins to brace BC @ 24" MWFRS with additional C&C I to wind pressure. Deflection n both gable and hip roof type	s.	CARO SSION EAL 54141			
IMPORTA Trusses require extrem Component Safety Info bracing per BCSI. Unle attached rigid ceiling. I diagonal bracing instal shown above and on th Notes page for addition Alpine, a division of IT	**WARNING READ AND NT** FURNISH THIS DRAI the care in fabricating, handling rmation, by TPI and SBCA) fi ses noted otherwise, top chorr ocations shown for permanel led on the CLR per BCSI sect nal information. M Building Components Group	ABCD Engine PFOLLOW ALL NOTES ON THIS D VING TO ALL CONTRACTORS INC is shapping, installing and bracing. I for safety practices prior to performin shall have properly attached struct thateral restraint of webs shall have ions B3, B7, or B10, as applicable. otherwise. Refer to drawings 160/ p. Inc. shall not be responsible for an	REAVING! PRAWING! CLUDING THE INSTALLERS Refer to and follow the latest edition g these functions. Installers shall p ural sheathing and bottom chord shi continuous fateral restraint (CLR), Apply plates to each face of truss a -Z for standard plate positions. Ref by deviation from this drawing any f	of BCSI (Building rovide temporary installed with nd position as er to job's Genera ailure to build the		
truss in conformance v	vith ANSI/TPI 1, or for handli	ng. shipping. installation and bracir	ig of trusses. A seal on this drawin	g or cover page	155 U.S.	

listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

SEQN: 7260 / FROM:	COMN Ply: 1 Qty: 10	Job Number: Q2410-340 The Farm at Neills Creek Truss Label: PB2		Cust: R 9836 JRef: 1Y4O98360009 T10 / DrwNo: 309.24.1104.51389 / YK 11/04/2024
		<mark>-1'6"5</mark> - 11"1 - 7"4 - -	3'0"10 - - - - - - -	
		$= 3X4$ C $T^{*8} - 0^{*4}$ A A $T^{*4} - 1'10^{*1}$ C $T^{*4} - 1'10^{*1}$		<u>2</u> 87"8
	1	7"4 2'5"5	3'0"10	
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc R+ /R- /Rh /Rw /U /R
ICDL: 10.00	Enclosure: Closed	PT: 15.4 Ce: 1.0	VERT(LL): 0.000 C 999 240	
BCDL: 0.00	Risk Category: II	Snow Duration: 1 15	HORZ(LL): 0.000 C 999 240	A 20 /- /- /27 /14 /29 B* 94 /- /- /67 /16 /-
Doc I d: 40.00	EXP: C Kzt: NA	Show Bulation. 1.13	HORZ(TL): 0.000 D	E 20 /- /- /16 /6 /-
NCBCLI · 10.00	Mean Height: 17.17 ft	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	RCDL: 5.0 pst	IRC 2021	Max TC CSI: 0.010	A Brg Wid = 5.2 Min Req = 1.5 (Truss)
Load Duration: 1.15	MWFRS Parallel Dist: 0	to h/2 TPI Std: 2014	Max BC CSI: 0.011	B Brg Wid = 22.1 Min Req = $-$
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearings A B & Fare a rigid surface
_	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 23.02.04A.0207.13	

Lumber

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

Plating Notes

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

Loading

Design Dead Loads based on material weight adjusted for slope: BC: 7.00 PSF

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

Wind loading based on both gable and hip roof types.

Additional Notes

Refer to DWG PB160160118 for piggyback details.



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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWINGI **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LOR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to build the Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: Alpine realower per ANSI/TPI 1. For more information see these web site: Alpine: alpineity com: TPI: toinst.orq: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org



SEQN: 7223 / 0	COMN	Ply: 1	Job Nur	nber: Q2410-340			Cust: R 983	36 JRef:1Y40	D98360009 T24
FROM:		Qiy: 9	Truss La	abel: G1			Drwino: 3	K 11	/04/2024
		-		856 10 10 10 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 12 10 12 13 13 13 13 13 13 13 13 13 13	6*10 + 20' 1*3 85'6 **\$\$0508 T2 C (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	3X6 			
			▲ 	8'5"6 2'1 8'5"6 11'	11*7 8'7*2 '4*14 20'	- ∡ →			
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind C Wind S Speed: Enclos Risk Ca EXP: C Mean H TCDL: BCDL: BCDL: MWFR C&C D Loc. fro	Criteria Std: ASCE 7-16 : 120 mph ure: Closed ategory: II C Kzt: NA Height: 17.58 ft 5.0 psf 5.0 psf S Parallel Dist: 0 ist a: 3.00 ft om endwall: Any GCpi: 0.18	to h/2	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Lu: - Cs: varies Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.010 C 999 240 VERT(CL): 0.021 C 999 240 HORZ(LL): 0.006 C - - HORZ(TL): 0.009 C - - Creep Factor: 2.0 Max TC CSI: 0.804 Max BC CSI: 0.598 Max Web CSI: 0.545	▲ Maximum Gra Loc R+ / H 860 / E 859 / Wind reactic H Brg Wic Bearings H & Members no Maximum T Chords Ter	Reactions (vity R- / Rh - /- - 1000000000000000000000000000000000000	(Ibs) Noi / Rw /499 /499 MWFRS Req = 1.5 Req = 1.5 d surface. forces less prces Per F Chords	n-Gravity /U /RL /47 /330 /47 /- (Truss) (Truss) than 375# ¹9 (Ibs) Tens. Comp.
	Wind D	Duration: 1.60		WAVE, 18SS	VIEW Ver: 23.02.04A.0207.13	A-B 1	94 - 709 85 - 420	C - D	194 - 710
Lumber Top chord: 2x4 SP SS Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Bracing (a) Continuous lateral member. Loading Design Dead Loads ba for slope: BC: 7.00 PS	; T2 2x4 restrain ased on F	4 SP #2; t equally spaced o material weight a	on adjusted			Maximum E Chords Ter G - F 4 Maximum V Webs Ter A - H 2 A - G 4	Set Chord For 120 - 111 20 - 111 Veb Forces I 115.Comp. 118 - 784 28 - 16	F - D D - E	1 ly (Ibs) 5) Tens. Comp. 427 - 18 219 - 782
Bottom chord checked	for 10.0	00 psf non-concu	rrent						
Ive load. Purlins In lieu of rigid ceiling u oc. Wind Wind loads based on M member design. End verticals exposed meets L/180. Wind loading based or	se purlii MWFRS to wind h both g	ns to brace BC @ S with additional C pressure. Deflect pable and hip roof	24" C&C tion types.	AND	CARO ESSION EAL 54141 WGINEER				
				11/04/2024 ABCD Engine	eering, PLLC NC COA 0838				
IMPORTA Trusses require extrem Component Safety Info bracing per BCSI. Unle attached rigid ceiling. L diagonal bracing install shown above and on th Notes page for addition Alpine, a division of ITV truss in conformance w	**WAF NT F ie care i rmation ss note ocation se Joint al inforn V Buildi ith ANS	RNING** READ FURNISH THIS D in fabricating, han , by TPI and SBC d otherwise, top c s shown for perm the CLR per BCSI Details, unless n mation. ing Components C SVTPI_1, or for he	AND FOI RAWING dling, shi A) for sai shord sha anent late sections oted other Group Inc andling,	LLOW ALL NOTES ON THIS DF 5 TO ALL CONTRACTORS INC pping, installing and bracing. R fety practices prior to performing II have properly attached structul eral restraint of webs shall have B3, B7, or B10, as applicable. A rwise. Refer to drawings 160A- s, shall not be responsible for any shipping, installation and bracing	RAWINGI LUDING THE INSTALLERS efer to and follow the latest edition these functions. Installers shall p ral sheathing and bottom chord sha continuous lateral restraint (CLR), i upply plates to each face of truss ai 2 for standard plate positions. Ref d deviation from this drawing, any fa g of trusses. A seal on this drawing	of BCSI (Buil rovide tempor all have a prop installed with nd position as er to job's Ger ailure to build g or cover par	ding ary berly heral the ge	AL 155 Harlen	

listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org







SEQN: 7215 / FROM:	GABL	Ply: 1 Qty: 1	Job Number: The Farm at N Truss Label:	Q2410-340 Jeills Creek PB2G			Cust: R 9836 JRef: 1Y4O98360009 T7 / DrwNo: 309.24.1104.50812 / YK 11/04/2024
				+ <mark>1'6"5 +</mark> 11"1 + <mark>7"4 +</mark> +	3'0"10 7 "4 - 2'5"5 - 11"1 -		
			↓ [2] ↓ ↓ 1"8 ⊕"4	=4X4 10 A IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		" "8	
				<mark>7"4 = = 1'10"</mark> <mark>7"4 = = 1'10"1</mark> 7"4 = = 2'5"5	1		
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 " Lumber Top chord: 2x4 SP #2 Webs: 2x4 SP #3; Plating Notes	Wind C Wind S Speed Enclos Risk C EXP: C Mean I TCDL: BCDL: BCDL: BCDL: MWFR C&C E Loc. fr	Criteria Std: ASCE 7-16 : 120 mph sure: Closed ategory: II C Kzt: NA Height: 17.17 ft 5.0 psf S: Parallel Dist: 0 Dist a: 3.00 ft om endwall: Any GCpi: 0.18 Duration: 1.60	to h/2 TPI Fit 1 Lu: Build IRC TPI Rep FT/F Plate WA	w Criteria (Pg,Pf in PSF) 20.0 Ct: 1.1 CAT: II 15.4 Ce: 1.0 - Cs: 0.93 w Duration: 1.15 ding Code: 2021 Std: 2014 Fac: Yes RT:20(0)/10(0) e Type(s): VE	Defi/CSI Criteria PP Deflection in loc L/defi L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.000 B - - HORZ(LL): 0.000 D - - Creep Factor: 2.0 Max TC CSI: 0.010 Max BC CSI: 0.005 Max Web CSI: 0.006	▲ Maximum R Gravit Loc R+ / R: A 19 /- B* 94 /- E 19 /- Wind reactions A Brg Wid = B Brg Wid = Bearings A, B, Members not li	eactions (Ibs), or *=PLF y Non-Gravity - / Rh / Rw / U / RL /- /28 /15 /29 /- /67 /15 /- /- /16 /6 /- /s based on MWFRS 5.2 Min Req = 1.5 (Truss) 22.1 Min Req = - 5.2 Min Req = 1.5 (Truss) & E are a rigid surface. isted have forces less than 375#
All plates are 2X4(A1) Loading Design Dead Loads b for slope: BC: 7.00 PS Gable end supports 8 chord must not be cut Bottom chord checked live load. Purlins In lieu of rigid ceiling u	except ased on F " max ra or notcl d for 10.	as noted. n material weight a ake overhang. Top hed. 00 psf non-concu	ndjusted o rrent 2 24"		CAROLIN		
oc. Wind Wind loads based on member design. Wind loading based o Additional Notes See DWGS A12030E GABRST160118 for g requirements. Refer to DWG PB160	MWFRS n both g NC1601 able wir 160118	S with additional C gable and hip roof 118, GBLLETIN01 nd bracing and oth for piggyback det	C&C types. 18, & her ails.	11/04/2024 ABCD Engine	ESS/04 EAL 54141 GINEER HWAY		
IMPORT/ Trusses require extrem Component Safety Info bracing per BCSI. Under	**WAI	RNING READ FURNISH THIS D in fabricating, har by TPI and SBC d otherwise, top c	AND FOLLOV RAWING TO dling, shipping A) for safety p hord shall hay	V ALL NOTES ON THIS D ALL CONTRACTORS INC g, installing and bracing. F practices prior to performing re properly attached structi	RAWING! LUDING THE INSTALLERS Refer to and follow the latest edition these functions. Installers shall p iral sheathing and bottom chord sh	of BCSI (Buildir provide temporar all have a proper	lg Iv

Ibracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached frugid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installed ind bracing of trusses. A seal on this drawing or cover page Idrawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 7225 /		Cust: R 9836 JRef: 1Y4O98360009 T29 /						
FROM:		Qty: 2	The Far	m at Neills Creek .abel: F1	/ YK 11/04/2024			
				abel: F1	₩2X4	<u>8</u> '1"8	/ YK	11/04/2024
				1'11"8 1' <mark></mark> 1'11"8				
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs)	
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: <u>10.00</u> Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind S Speed: Enclos Risk C: EXP: C Mean H TCDL: BCDL: MWFR C&C D Loc. fr Wind I	std: ASCE 7-16 : 120 mph ure: Closed ategory: II > Kzt: NA Height: Height: 15.00 ft 5.0 psf S S Parallel Dist a: 3.00 ft om endwall: Any GCpi: 0.18 Duration: 1.60	to h/2	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.000 B 999 240 HORZ(LL): -0.000 C HORZ(TL): 0.000 C Creep Factor: 2.0 Max TC CSI: 0.078 Max BC CSI: 0.037 Max Web CSI: 0.043	Gravity Loc R+ / R- E 167 /- D 64 /- Wind reactions E Brg Wid = D Brg Wid = Bearing E is a Members not li	/ Rh / Rw /- /104 /- /52 based on MWFRS 3.5 Min Req = 1 - Min Req = - rigid surface. sted have forces le	Non-Gravity <u>/ U / RL</u> ↓ /- /66 /28 /- ↓ ↓.5 (Truss) Hess than 375#
Lumber	1					1		
Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; Hangers / Ties	equired	hy others						
		-, 0						
Bottom chord checked live load.	l for 10.0	00 psf non-concu	rrent					
Wind Wind loads based on I member design.	MWFR	S with additional C	C&C					
Left end vertical exposed meets L/180.	ed to w	ind pressure. Def	lection		CAPO			
Right end vertical not	exposed	d to wind pressure) .	""TH				

Wind loading based on both gable and hip roof types.



11/04/2024 ABCD Engineering, PLLC NC COA 0838

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LIR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineity com. TPI: toinst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org



SEQN: 7258 /	MONO	Ply: 1	Job Nu	mber: Q2410-340		C	ust: R 9836 JRef: 1Y4O98360009 T14 /			
FROM:		Qty: 3	The Far	The Farm at Neills Creek DrwNo: 309.24.1104.51155 Truss Label: P1 / YK 11/04/2024						
			Truss L				/ fK 1/04/2024			
		–			₩3X4 C	Ŧ				
		t				1				
				10						
				7 7						
		,		. //		13"7				
		10				е 				
				≝3X4						
				B		⊥ 0'8"12				
		÷	A			+				
		± ±				9'1"8				
				FX	E ≡3X6	Ψ				
				III2X4	III3X4					
				2"8						
				Ŧ Į- 4'9"						
				4'8"						
			- 1'	- - 4'8"						
					3"8					
	1			1	4'11"8	1				
Loading Criteria (psf)	Wind (Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	A Maximum Rea	ctions (lbs)			
TCLL: 20.00	Speed	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc R+ /R-	/Rh /Rw /U /RL			
BCLL: 0.00	Enclos	sure: Closed		Lu: - Cs: 1.00	VERT(CL): 0.006 B 615 240	F 298 /-	/- /176 /25 /140			
BCDL: 10.00		ategory: II		Snow Duration: 1.15	HORZ(LL): -0.003 C	D 176 /-	/- /141 /57 /-			
Des Ld: 40.00	Mean I	Height: 15.00 ft			HORZ(TL): 0.006 C	Wind reactions ba	ased on MWFRS			
NCBCLL: 10.00	TCDL:	5.0 psf		Building Code:	Creep Factor: 2.0	D Brg Wid = 3 .	5 Min Req = 1.5 (Support)			
Load Duration: 1.15	BCDL:	: 5.0 psf 25 Parallel Dist: 0	to h/2	TPI Std: 2014	Max BC CSI: 0.166	Bearings F & D a	re a rigid surface.			
Spacing: 24.0 "	C&C D	Dist a: 3.00 ft	1011/2	Rep Fac: Yes	Max Web CSI: 0.184	Members not liste	ed have forces less than 375# hord Forces Per Ply (lbs)			
	Loc. fr	om endwall: Any		FT/RT:20(0)/10(0)		Chords Tens.Co	omp			
	Wind [GCpi: 0.18 Duration: 1.60		Plate Type(s):	VIEW Ver: 23 02 04A 0207 13	F-E 115	- 413			
Lumber				IWAVE		1				
Top chord: 2x4 SP #2	;					Maximum Web F	Forces Per Ply (lbs)			
Bot chord: 2x4 SP #2;										
Rt Bearing Leg: 2x4 S	P #3;					C-D 801 ·	- 487			
Loading										
Bottom chord checked	d for 10.	.00 psf non-concu	rrent							
live load.										
Wind										
Wind loads based on	MWFR	S with additional C	C&C							
member design.										
meets L/180.	to wind	a pressure. Defiect	lion							
Left cantilever is expo	sed to v	vind			11111111111					
Wind loading based o	n both g	gable and hip roof	types.	"""H	CARO					
				in the line	SSIO					
					TO A THE T					
				i // 2 c	FALTIN					
				E \\ 05	54141					
					A Min					
					GINEL					
				THE ON	HIMAK with					
					F 1 V V V V V V V V V V V V V V V V V V					
				11/04/2024						
				ABCD Engine	ering, PLLC NC COA 0838					
	WAI	RNING READ	AND FO	LLOW ALL NOTES ON THIS DE	RAWING!					
IMPORTA	NT	FURNISH THIS D in fabricating, han	RAWING	G TO ALL CONTRACTORS INC ipping, installing and bracing. R	LUDING THE INSTALLERS efer to and follow the latest edition	of BCSI (Buildina				
Component Safety Info	ormation ess note	n, by TPI and SBC ed otherwise, top o	A) for sa hord sha	tety practices prior to performing Ill have properly attached structu	these functions. Installers shall p ral sheathing and bottom chord sh	rovide temporary				
attached rigid ceiling. L	ocation	is snown for perm he CLR per BCSI	anent lat sections	eral restraint of webs shall have (B3, B7, or B10, as applicable. A	continuous lateral restraint (CLR),	installed with nd position as	· · · ·			
snown above and on the	ne Joint	Details, unless n	oted othe	erwise. Reter to drawings 160A-	-∠ ror standard plate positions. Ref	er to job's General				

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



SEQN: 7230 /	MONO	Ply: 1	Job Nur	nber: Q2410-340					Cust: R 98	36 JRef:1Y4	10983600	09 T12 /
FROM:		Qty: 6	The Farr	n at Neills Creek					DrwNo: 3	309.24.1104 √K 1	.50478 11/04/202	А
				6'1'8 +							1/04/202	
		┝───── ⁸¹⁴² ────		7 12 33X4 C C C C C C C C C C C C C C C C C C C	*334 *34 *34 *34 *34 *34 *34 *34 *34 *34	· ·	4	9'8*12 9'1*8				
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		▲ Maxir	num Re	eactions	(lbs)		
TCLL: 20.00	Wind S	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc I	L/defl L/#	Loc R-	Gravity - / R-	/ / Rh	No / Rw	on-Gravi / U	ty / RL
BCLL: 0.00	Enclos	ure: Closed		Lu: - Cs: 1.00	VERT(CL): 0.012 G	999 240 999 240	H 577	· /-	/-	/334	/49	/304
BCDL: 10.00	EXP: C	ategory: II C Kzt: NA		Snow Duration: 1.15	HORZ(LL): -0.006 D		E 503 Wind re	/- actions	/- based or	/377 n MWFRS	/102	/-
NCBCLL: 10.00	Mean I TCDL:	Height: 15.00 ft 5.0 psf		Building Code:	Creep Factor: 2.0		H Brg	Wid =	3.5 Mir	n Req = 1.5	5 (Truss))
Soffit: 2.00	BCDL:	5.0 psf		IRC 2021 TPI Std: 2014	Max TC CSI: 0.505 Max BC CSI: 0.386	5	E Brg Bearing	sH&E	are a rig	id surface.) (Suppo	οπ)
Spacing: 24.0 "	C&C D	ist a: 3.00 ft	to n/2	Rep Fac: Yes	Max Web CSI: 0.493	3	Membe Maximu	rs not lis um Top	sted have Chord F	forces less forces Per	s than 37 Plv (lbs	75#)
	Loc. fro	om endwall: Any GCni: 0.18		FT/RT:20(0)/10(0) Plate Type(s):			Chords	Tens.0	Comp.	_		,
	Wind E	Duration: 1.60		WAVE	VIEW Ver: 23.02.04A.	.0207.13	B-C	209	- 590			
Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2;	;						Maximu Chords	Im Bot Tens.(Chord Fo	orces Per Chords	Ply (Ibs) Tens. () Comp
Webs: 2x4 SP #3; Rt Bearing Leg: 2x4 S	P #2;						H - G	202	- 648	G - F	434	- 395
Loading	l for 10	00 pof pop concu	ront				Maximu Webs	um Web Tens.(• Forces Comp.	Per Ply (lb Webs	• s) Tens. (Comp.
live load.		uu psi non-concui	rent				B-H	285	- 530	C-F	353	- 503
Wind Wind loads based on I	MWFR	S with additional C	%C				в-G	300	- 34	D-E	961	-915
End verticals exposed	to wind	l pressure. Deflect	tion									
Wind loading based or	n both g	able and hip roof	types.									
				11/04/2024 ABCD Engined	CARO SSION EAL 64141 HWAK	A 0838						
IMPORTA Trusses require extrem Component Safety Info bracing per BCSI. Unle attached rigid ceiling. L diagonal bracing install shown above and on addition	**WAF In care in rmation iss note ocation led on the Doint ne Joint	NING READ FURNISH THIS D in fabricating, han , by TPI and SBC d otherwise, top c is shown for perm. he CLR per BCSI Details, unless n matiop	AND FO RAWINC dling, shi A) for sa shord sha anent late sections oted othe	LLOW ALL NOTES ON THIS DI 5 TO ALL CONTRACTORS INC pping, installing, and bracing. R fety practices prior to performing II have properly attached structu aral restraint of webs shall have B3, B7, or B10, as applicable. A prwise. Refer to drawings 160A	RAWING! LUDING THE INSTALL efer to and follow the la these functions. Insta ral sheathing and botto continuous lateral restr upply plates to each fac -Z for standard plate po	LERS atest edition allers shall p om chord sha raint (CLR), i ce of truss a ositions. Refe	of BCSI rovide ter all have a installed v nd positio er to job's	(Buildin nporary properi with n as Genera	g ly al			

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







SEQN: 7249 / FROM:	GABL	Ply: 1 Qty: 1	Job Nu The Far Truss L	mber: Q2410-340 rm at Neills Creek .abel: B1G			Cust: R 9836 JRef:1Y4O98360009 T27 DrwNo: 309.24.1104.51468 / YK 11/04/2024
				- 2'3''8 - 2 - (TYP)	H 1'10'4		1
		٤	- C III - 1'	123°8 123°8 123°8		-\$ ⁹¹⁷⁸	
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind S Speed Enclos Risk C EXP: (Mean TCDL: BCDL: BCDL: MWFF C&C E Loc. fn	Criteria Std: ASCE 7-16 : 120 mph sure: Closed ategory: II C Kzt: NA Height: 15.00 ft 5.0 psf S: Parallel Dist: 0 Dist a: 3.00 ft om endwall: Any GCpi: 0.18 Duration: 1 60	to h/2	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAYE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): -0.005 B 999 240 VERT(CL): -0.008 B 999 240 HORZ(LL): -0.027 B - -HORZ(TL): 0.035 B - -Creep Factor: 2.0 Max TC CSI: 0.223 Max BC CSI: 0.257 Max Web CSI: 0.722	▲ Maximum R Gravit Loc R+ / R- O 174 /- I* 76 /- Wind reactions O Brg Wid = I Brg Wid = Bearings O & Members not I Maximum Top Chords Tens. B - H 177	Reactions (lbs), or *=PLF y Non-Gravity - /Rh /Rw /U /RL /- /204 /29 /312 /- /59 /18 /- s based on MWFRS :3.5 Min Req = 1.5 (Truss) :143 Min Req = - O are a rigid surface. isted have forces less than 375# p Chord Forces Per Ply (lbs) .Comp.
Lumber Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2 Webs: 2x4 SP #3; M1	; ; 2x6 SF	9 #2; M7 2x4 SP #	2;			Maximum Gal Gables Tens. O - B 66	ble Forces Per Ply (lbs) Comp. 3 - 383
Bracing Fasten rated sheathin Plating Notes All plates are 2X4 exc Loading Bottom chord checked live load.	ng to one cept as r d for 10.	e face of this frame noted. 00 psf non-concu	e. rrent				
Wind Wind loads based on member design. End verticals exposed meets L/180. Wind loading based of Additional Notes See DWGS A12015E GABRST160118 for g requirements.	MWFR: d to wind on both <u>c</u> NC160 ⁷ jable win	S with additional C I pressure. Deflec gable and hip roof 118, GBLLETIN01 nd bracing and oth	C&C tion types. 18, & her	11/04/2024 ABCD Engin	CARO ESS/ON F SEAL 54141 VGINEER WHWAY		
IMPORT/ Trusses require extre- Component Safety Inf bracing per BCSI. Uni attached rigid ceiling. diagonal bracing insta shown above and on t Notes page for additio Alpine, a division of IT truss in conformance v listing this drawing, int	**WAI ANT ne care ormatior ess note Location lled on ti he Joint nal infor W Build with ANS dicates a	RNING** READ FURNISH THIS D in fabricating, han , by TPI and SBC d otherwise, top c s shown for perm he CLR per BCSI Details, unless n mation. ing Components (SITPI 1, or for ha icceptance of prof a creenoncibility of	AND FC RAWING dling, sh chord sha anent lat sections oted oth Group In andling, essional	LOW ALL NOTES ON THIS D G TO ALL CONTRACTORS INC ipping, installing and bracing. R afety practices prior to performing all have property attached structur teral restraint of webs shall have s B3, B7, or B10, as applicable. A erwise. Refer to drawings 160A c. shall not be responsibility solely inor Designer or ANSUMPUT 1 acc	RAWING! LUDING THE INSTALLERS Refer to and follow the latest edition i these functions. Installers shall p iral sheathing and bottom chord sh continuous lateral restraint (CLR), i Apply plates to each face of truss a -2 for standard plate positions. Ref y deviation from this drawing, any fi g of trusses. A seal on this drawin for the design shown. The suitabili	of BCSI (Buildir rovide temporar all have a proper installed with nd position as er to job's Genel ailure to build th g or cover page ty and use of thi	ral e s 155 Harlem Ave North Building 4th Floor

drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Glenview, IL 60025



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 A12015ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.



11/04/2024 ABCD Engineering, PLLC NC COA 0838

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SEQN: 7224 / FROM:	GABL	Ply: 1 Job N Qty: 2 The F Truss	lumber: Q2410-340 farm at Neills Creek 5 Label: F1G		Cust: R 9836 JRef:1Y4O98360009 T28 / DrwNo: 309.24.1104.51124 / YK 11/04/2024
			3 <u>"8 1'9"12</u> 3"8 1'6"4	<u>1'11'8</u> 1*12	
			, 1'11"8 - + 1'+ + 1'6"4	↓	
			1"12 1"12	3 <mark>"8_1</mark> 1'11"8	
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind S Speed Enclos Risk C EXP: (Mean TCDL: BCDL MWFF C&C I Loc. fr	Criteria Std: ASCE 7-16 I: 120 mph sure: Closed iategory: II C Kzt: NA Height: 15.00 ft : 5.0 psf : 5.0 psf RS Parallel Dist: 0 to h/2 Dist a: 3.00 ft om endwall: Any GCpi: 0.18 Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defi/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 240 VERT(CL): 0.000 B 999 240 HORZ(LL): -0.000 C - - HORZ(LL): 0.000 C - - Creep Factor: 2.0 Max TC CSI: 0.114 Max BC CSI: 0.041 Max Web CSI: 0.058 VIEW Ver: 23.02.04A.0207.13 VIEW Ver: 23.02.04A.0207.13	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL E 167 /- /- /98 /17 /76 D* 38 /- /- /35 /16 /- Wind reactions based on MWFRS E Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 20.0 Min Req = - Bearings E & E are a rigid surface. Members not listed have forces less than 375#

Lumber

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

Plating Notes

All plates are 2X4 except as noted.

Loading

Bottom chord checked for 10.00 psf non-concurrent live load.

Wind

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

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A12015ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.



11/04/2024 ABCD Engineering, PLLC NC COA 0838

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LIR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineity com. TPI: toinst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org



SEQN: 7206 /	VAL	Ply: 1 Jo	ob Number: Q2410-340			Cust: R 9836 JRef: 1	Y4O98360009 T15 /
FROM:		Qty: 1 Ti	he Farm at Neills Creek			DrwNo: 309.24.11	04.50905
		Ti	russ Label: VC1			/ YK	11/04/2024
			<u>- 2'7"15</u>	5'3"14 2'7"15			
			= 4X4 8 = 3X4(D1) A = 0 2X4	=3X4(D1) C	2'5"3		
			5'3"1 <i>4</i>				
			. 2'7"15	2'7"15			
			2'7"15	5'3"14			
	1		27 13				
Loading Criteria (psf)	Wind (Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs), or	*=PLF
TCLL: 20.00	wind a	5t0: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc R+ /R-	/ /Rh /Rv	v / U / RL
BCU: 0.00	Enclos	sure: Closed	PI: 15.4 Ce: 1.0	VERT(LL): 0.002 A 999 240	<u></u>	/ ///	/4 /6
BCDL: 10.00	Risk C	ategory: II	Snow Duration: 1.15	HORZ(LL): -0.001 C	Wind reactions	based on MWFR	/4 /0 S
Des Ld: 40.00	EXP: C	C Kzt: NA		HORZ(TL): 0.002 C	C Brg Wid =	63.9 Min Req = -	
NCBCLL: 10.00	Mean I	Height: 15.00 ft	Building Code:	Creep Factor: 2.0	Bearing A is a	rigid surface.	
Soffit: 2.00	BCDL:	5.0 psf	IRC 2021	Max TC CSI: 0.082	Members not li	sted have forces le	ess than 375#
Load Duration: 1.15	MWFR	RS Parallel Dist: 0 to	h/2 TPI Std: 2014	Max BC CSI: 0.066			
Spacing: 24.0 "	C&C D	Dist a: 3.00 ft	FT/RT·20(0)/10(0)	Max Web CSI. 0.049			
	LOC. IN	GCpi: 0.18	Plate Type(s):				
	Wind [Duration: 1.60	WAVE	VIEW Ver: 23.02.04A.0207.13			
Lumber			·				
Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	;						
Loading							
Bottom chord checked live load.	l for 10.	00 psf non-concurre	nt				
1							

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 DWG VALTN160118 for valley details.



11/04/2024 ABCD Engineering, PLLC NC COA 0838

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWINGI **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LOR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to build the Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: Alpine real priority com; TPI: toinst.orq: SBCA: sbcacomponents.com; ICC: iccsafe.org: AWC: awc.org



SEQN: 7227 /	COMN	Ply: 1	Job Nu	mber: Q2410-340			Cust: R 9836 JRef: 1Y4O98360009 1	3 /
FROM:		Qty: 1	The Far	m at Neills Creek			DrwNo: 309.24.1104.50794	
			Truss L	.abel: C1D			/ YK 11/04/2024	
			┝━───	6'	12'			
				6'	6'	I.		
				 4	IX6			
		-			B			
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				12				
				8				
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			3X6	≡H0	508	3X6		
			<u></u>		12'	 _		
			•			-		
			┝━───	6'	6'			
				6'	12'	I		
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs)	
TCLL: 20.00	Wind S	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity	y Non-Gravity	
TCDL: 10.00	Speed:	: 120 mph		Pf: 15.4 Ce: 1.0	VERT(LL): 0.006 E 999 240	Loc R+ /R-	- /Rh /Rw /U /RL	<u> </u>
BCLL: 0.00	Enclos	ure: Closed		Lu: - Cs: 1.00	VERT(CL): 0.013 E 999 240	F 504 /-	/- /304 /46 /127	,
BCDL: <u>10.00</u>	EXP: C	C Kzt: NA		Snow Duration: 1.15	HORZ(LL): 0.001 C	D 504 /-	/- /304 /46 /-	
Des Ld: 40.00	Mean I	Height: 15.00 ft		Building Code:	-HORZ(TL): 0.002 C	F Bro Wid =	3.0 Min Reg = 1.5 (Truss)	
Soffit: 2.00	TCDL:	5.0 psf		IRC 2021	Max TC CSI: 0 505	D Brg Wid =	3.0 Min Req = 1.5 (Truss)	
Load Duration: 1 15	BCDL:	5.0 pst S Parallel Dist: 0	to h/2	TPI Std: 2014	Max BC CSI: 0.324	Bearings F & D) are a rigid surface.	
Spacing: 24.0 "	C&C D)ist a: 3.00 ft	1011/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Members not li	sted have forces less than 375#	
	Loc. fro	om endwall: Any		FT/RT:20(0)/10(0)		Chords Tens	Comp. Chords Tens. Com	D.
		GCpi: 0.18		Plate Type(s):		A D 204	540 D C 224 F	40
	Wind D	Juration: 1.60		WAVE, HS	VIEW Ver: 23.02.04A.0207.13	а-в 224	- 349 B-C 224 - 3	19
Lumber						Maximum We	b Forces Per Ply (lbs)	
Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2	;					Webs Tens.	Comp. Webs Tens. Com	р.
Webs: 2x4 SP #3;	1					A - F 231	-456 C-D 231 -4	56
Loading								
Truce transfore a max	imum br	orizontal load of						
100 # (8.34 plf) al	long top	chord, from eithe	r					
direction, to supports	where in	idicated. Diaphrag	jm and					
Drag Loads: Force(#)	designe (PLF)	Mbr Start End	Record.					
Case 1: 100	8.34 T	°C 0.00 12.00	ı					
100	8.33 E	BC 0.00 12.00)					
Bottom chord checked).for 10 ل	00 psf non-concu	rrent					
Wind								
Wind loads based on	MWFRS	3 with additional C	C&C	""TH	CARO			
member design.		D-4	41	""RI	SSIG N.			
meets L/180.	to wind	pressure. Defiect	lion	i allor	ESSON AN THE			
Wind loading based o	n both a	able and hip roof	types.	1/2 0				
It is the responsibility	of the Pu	uilding Designer s	ond .	i i b				
Truss Fabricator to rev	view this	s drawing prior to	Ind		$51141 \neq 1$			
cutting lumber to verify	y that all	I data, including						
dimensions and loads	, conforr	m to the architectu	ural		Van Station in)			
plano, opeonioa liene al			-	The All	GINE			
				ON	HINAK			
				*****	Feele 4455			
				11/04/2024				
				ABCD Engine	ering, PLLC NC COA 0838			
	**18/ 4 -							
+*IMPORTA	waf ANT** [FURNISH THIS D	AND FO	G TO ALL CONTRACTORS INC		(000) (5		
Component Safety Info	ne care i ormation	in fabricating, han 1, by TPI and SBC	dling, sh A) for sa	apping, installing and bracing. R	these functions. Installers shall p	of BCSI (Buildin rovide temporary	ng V	
bracing per BCSI. Unle attached rigid ceiling. L	ess note	d otherwise, top c is shown for perm	hórd sha anent la	all have properly attached structu teral restraint of webs shall have	iral sheathing and bottom chord sha continuous lateral restraint (CLR).	all have a proper installed with	iy	
diagonal bracing instal	led on the	ne CLR per BCSI	sections	B3, B7, or B10, as applicable. A	Apply plates to each face of truss a	nd position as		6
Notos pago for addition	nal infor	motion	olca olli	crwise. There to drawings 100/1				

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

SEQN: 7212 / FROM:	VAL	Ply: 1 Qty: 2	Job Nu The Far Truss L	mber: Q2410-340 m at Neills Creek . abel: V1			Cust: R 9836 JRef: 1Y4O98360009 T34 DrwNo: 309.24.1104.50319 / YK 11/04/2024
			= A	7 12 3X4(D1))'2"4	
			-	4'8"8			
				<u>4'8"8</u> 4'8"8			
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Cr Wind Sta Speed: Enclosu Risk Cat EXP: C Mean He TCDL: 5 BCDL: 5 BCDL: 5 MWFRS C&C Dis Loc. fror	riteria d: ASCE 7-16 120 mph re: Closed tegory: II Kzt: NA eight: 21.71 ft .0 psf .0 psf .0 apsf .0 apsf .0 apsf .0 apsf .1 ar 3.00 ft at a: 3.00 ft .0 endwall: Any GCpi: 0.18	o h/2	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): Colored and the type (s):	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.005 A HORZ(TL): 0.010 A Creep Factor: 2.0 Max TC CSI: 0.292 Max BC CSI: 0.272 Max Web CSI: 0.170	▲ Maximum F Gravit Loc R+ / R C* 83 /- Wind reactions C Brg Wid = Bearing A is a Members not I	Reactions (Ibs), or *=PLF ty Non-Gravity - /Rh / Rw / U / RL /- /51 /12 /22 s based on MWFRS 56.5 Min Req = - - rigid surface. isted have forces less than 375#
Lumber Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;	Wind Du	Iration: 1.60		WAVE	VIEW Ver: 23.02.04A.0207.13]	
Loading Bottom chord checked live load.	d for 10.00) psf non-concur	rent				
Wind Wind loads based on member design. Right end vertical exp	MWFRS	with additional C	&C				
Wind loading based o	i0. In both ga	ble and hip roof t	ypes.				
Additional Notes See DWG VALTN160)118 for va	alley details.		ALL AND AL	SEAL 054141		
				11/04/2024 ABCD Engi	ineering, PLLC NC COA 0838		
IMPORT/ Trusses require extrem Component Safety Info bracing per BCSI. Unit attached rigid ceiling. I diagonal bracing instal shown above and on t blotee per of the addition	**WARI ANT Fl ne care in ormation, ess noted ocations led on the he Joint D	NING** READ JANISH THIS DI fabricating, hand by TPI and SBC otherwise, top cl shown for perma e CLR per BCSI a letails, unless no stion	AND FC RAWIN dling, sh A) for sa nord sha anent la sections oted oth	DLOW ALL NOTES ON THIS D G TO ALL CONTRACTORS INC ipping, installing and bracing. F afety practices prior to performing all have properly attached structu teral restraint of webs shall have B3, B7, or B10, as applicable. / erwise. Refer to drawings 160A	RAWING! LUDING THE INSTALLERS Refer to and follow the latest edition g these functions. Installers shall g iral sheathing and bottom chord sh continuous fateral restraint (CLR), Apply plates to each face of truss a Continuous fateral plate positions. Ref	n of BCSI (Buildin provide temporar all have a prope installed with and position as fer to job's Gene	

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

SEQN: 7209 /	VAL	Ply: 1	Job Nu	nber: Q2410-340		Cust: R 9836 JRef: 1Y4O98360009 T31 /
FROM:		Qty: 2	The Far	m at Neills Creek		DrwNo: 309.24.1104.51249
			Truss L	abel: V4		/ YK 11/04/2024
			 -	5'3"6 9'3"6 5'3"6 4'	13'3"6 	
				500 4	-	
					^{Ⅲ2X4} D	
					P	
					112X4	
				12		
					2	
				III2X4	5.4 File	
				B		
			=3X4(D1)			
			A			
) ^{15'2"4}
				G W2X4		
				 2 /\4	III 274	
			ŀ	13'3"6		
				5'3"6 4'	4'	
			la	5'3"6 ° * 9'3"6	13'3"6	
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Po.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ibs), or *=PLF
TCLL: 20.00	Wind S	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed	: 120 mph		Pf: 15.4 Ce: 1.0	VERT(LL): 0.016 A 999 240	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclos Risk C	ure: Closed		Lu: - Cs: 1.00	VERT(CL): 0.033 A 999 240	E* 83 /- /- /54 /12 /23
BCDL: 10.00	EXP: C	Kzt: NA		Snow Duration: 1.15	HORZ(LL): -0.007 D	Wind reactions based on MWFRS
Des Ld: 40.00	Mean I	leight: 19.21 ft		Building Code	Creep Factor: 2.0	Bearing A is a rigid surface.
Soffit 2 00	TCDL:	5.0 psf		IRC 2021	Max TC CSI: 0.322	Members not listed have forces less than 375#
Load Duration: 1.15	MWFR	5.0 psi S Parallel Dist: 0	to h/2	TPI Std: 2014	Max BC CSI: 0.251	Maximum Top Chord Forces Per Ply (lbs)
Spacing: 24.0 "	C&C D	ist a: 3.00 ft		Rep Fac: Yes	Max Web CSI: 0.860	chords Tens.comp.
	Loc. fro	om endwall: Any		FT/RT:20(0)/10(0)		A - B 144 - 502
	Wind F	GCpi: 0.18		Plate Type(s):	VIEW Vor: 22.02.044.0207.12	Maximum Bot Chord Forces Por Ply/lbs)
Lumbor	WING L			WAVE	VIEW Ver. 23.02.04A.0207.13	Chords Tens.Comp. Chords Tens. Comp.
Top chord: 2x4 SP #2						A - G 501 - 114 E - E 511 - 119
Bot chord: 2x4 SP #2;	,					G-F 507 -118
Webs: 2x4 SP #3; W3	3 2x4 SF	P #2;				
Loading						
Bottom chord checked	d for 10.	00 psf non-concu	rrent			
live load.						
Wind						
Wind loads based on	MWFR	S with additional C	C&C			
member design.						
Right end vertical expo	osed to	wind pressure.				
Wind loading based o	n both a	able and hip roof	types.			
Soo DWG VALTN160	119 for	vallov dotails			CARO	
See DWG VALINIOU	110101	valley details.		"ATC	N.	
				is off	55/0A 7 =	
				i //~ S		
				÷ 05	$A1A1 \rightarrow >$	
					ONER)	
				THE A	GINE	
				N	HWAK	
					444 ALE 34	
				11/04/2024		
				ABCD Enginee	ering, PLLC NC COA 0838	
**!!!!!?	**WA			LLOW ALL NOTES ON THIS DE	RAWING!	
Trusses require extrem	ne care	in fabricating, har	dling, sh	ipping, installing and bracing. R	efer to and follow the latest edition	of BCSI (Building
bracing per BCSI. Unle	ess note	d otherwise, top o	hord sha	Ill have properly attached structur	ral sheathing and bottom chord sha	All have a properly
diagonal bracing instal	led on th	ne CLR per BCSI	sections	B3, B7, or B10, as applicable. A	oply plates to each face of truss an	nd position as
Shown above and on the		Details, UTILESS I	orea orue	simise. Itelef to urawings 160A-	2 IOI SIAIIUAIU PIALE POSILIOIIS. RETE	

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

SEQN: 7211 / FROM:	VAL	Ply: 1 Qty: 2	Job Nu The Fai Truss I	mber: Q2410-340 rm at Neills Creek .abel: V2			Cust: R 9836 JRef: 1Y4O98360009 T33 DrwNo: 309.24.1104.50098 / YK 11/04/2024
			⊧–	<u>3'6"13</u> 3'6"13 + +	7'6"13 4'		
				7 12 12 112 112 112 112 112 112 1		4	
			 -	3'6"13 3'6"13	4' 7'6"13		
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind S Speed Enclos Risk C EXP: 0 Mean TCDL: BCDL: MWFF C&C E Loc. fr	Criteria Std: ASCE 7-1 1: 120 mph sure: Closed Category: II C Kzt: NA Height: 20.87 ft 5.0 psf S.5.0 psf S.5 Parallel Dist: Dist a: 3.00 ft rom endwall: An GCpi: 0.18 Duration: 1.60	0 to h/2 y	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.003 A 999 240 VERT(CL): 0.006 A 999 240 HORZ(LL): -0.002 C HORZ(LL): 0.003 C Creep Factor: 2.0 Max TC CSI: 0.282 Max BC CSI: 0.163 Max Web CSI: 0.409	▲ Maximum R Gravit Loc R+ / R D* 83 /- Wind reactions D Brg Wid = Bearing A is a Members not I	teactions (Ibs), or *=PLF y Non-Gravity - /Rh / Rw / U / RL /- /53 /13 /23 s based on MWFRS 90.8 Min Req = - - rigid surface. isted have forces less than 375#
Lumber Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2 Webs: 2x4 SP #3:	<u>2;</u> ;			WAVE	VIEW Ver: 23.02.044.0207.13]	
Loading Bottom chord checked	d for 10.	.00 psf non-con	current				
Wind Wind loads based on member design. Right end vertical exp	MWFR:	S with additiona	I C&C				
Deflection meets L/18 Wind loading based of	30. on both d	aable and hip ro	of types.				
Additional Notes See DWG VALTN160)118 for	valley details.		A COLORING COLORING	CARO ESSION EAL 54141		
				11/04/2024	HWAK		
			D 4115 55	ABCD Engine	eering, PLLC NC COA 0838		
IMPORT	**WA ANT ne care	KNING** REA FURNISH THIS in fabricating, h	D AND FO DRAWIN andling, sh	JLLOW ALL NOTES ON THIS D G TO ALL CONTRACTORS INC hipping, installing and bracing.	RAWING! CLUDING THE INSTALLERS Refer to and follow the latest edition	of BCSI (Buildir	ng

Trusses require extreme care in tabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall have a properly 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 continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Apply and the property and the property attraction from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 7208 /	GABL	Ply: 1	Job Nur	nber: Q2410-340			Cust: R 9836 JRef: 1Y4O98360009 T30 /
FROM:		Qty: 1	The Fan	m at Neills Creek			DrwNo: 309.24.1104.50936
			Truss L	abel: V5			/ fK 11/04/2024
		h .	2'1"10		++ 1'10"4∥3×3		
		,		(TYP)		Ŧ	
					P		
				7			
				6X6 E		+ 15	
				- P		ō 	
					М8		
		=3)	(4(D1)				
		_				13'6"4	
			///	/////		Ψ	
				≡6X6			
		L.		16'1"10	L		
		r-			1		
		 		16'1"10 16'1"10			
	1				1	1	
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs), or *=PLF
TCLL: 20.00	Wind S	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity	/ Non-Gravity
TCDL: 10.00	Enclos	sure: Closed		Pt: 15.4 Ce: 1.0	VERT(LL): 0.001 A 999 240		
BCLL: 0.00	Risk C	ategory: II		Snow Duration: 1 15	HORZ(11): -0.007 I	J* 83 /- Wind reactions	/- /54 /11 /23
Des I d' 40.00	EXP: 0	C Kzt: NA			HORZ(TL): 0.010 I	J Brg Wid =	193 Min Reg = -
NCBCLL: 10.00	Mean	Height: 18.37 ft		Building Code:	Creep Factor: 2.0	Bearing A is a	rigid surface.
Soffit: 2.00	BCDL	5.0 psi		IRC 2021	Max TC CSI: 0.161	Members not li	sted have forces less than 375#
Load Duration: 1.15	MWFR	RS Parallel Dist: 0	to h/2	TPI Std: 2014	Max BC CSI: 0.160	Chords Tens	Comp Chords Tens Comp
Spacing: 24.0 "	C&C D	Dist a: 3.00 ft		Rep Fac: Yes	Max Web CSI: 0.315		
	Loc. fr	om endwall: Any		F I/R I :20(0)/10(0)		A-E 154	-599 E-I 203 -387
	Wind F	GCPI: 0.18 Duration: 1.60			VIEW Ver: 23.02.044.0207.13	Maximum Bot	Chord Forces Per Ply (lbs)
Lumber				IWAVE		Chords Tens.	Comp.
Top chord: 2x4 SP #2						A - N 563	
Bot chord: 2x4 SP #2;	;					A-N 303	- 172
Webs: 2x4 SP #3; M8	3 2x4 SP	P SS;					
Plating Notes							
All plates are 2X4 exc	ept as n	noted.					
Looding							
Bottom abord abookor	d for 10		rront				
live load.		oo psi non-concu	irent				
wind		0itik	~~~				
member design.	MWFR	S with additional (Jac				
Right end vertical exp	osed to	wind pressure.					
Deflection meets L/18	80.				CAP		
Wind loading based o	on both g	gable and hip roof	types.	""TH	CAROLIN		
Additional Notes				N'OT EF	SSION		
See DWGS A12030E	NC1601	118, GBLLETIN01	18, &	i /20</td <td>E E</td> <td></td> <td></td>	E E		
GABRST160118 for g	able wir	nd bracing and ot	her	<i>[</i> ⊆ ⊆	FAL		
requirements.							
				E \\ 05	54141 57		
					GINEELA		
				···· 001	Hann.		
				V	HWAS		
				11/04/2024			
				11/04/2024 ADCD E			
				ABCD Engine	ering, PLLC NC COA 0838		
IMPOPT	**WAI	RNING READ	AND FO	LLOW ALL NOTES ON THIS DI TO ALL CONTRACTORS INC	RAWING! LUDING THE INSTALLERS		
Trusses require extrem	ne care	in fabricating, har	ndling, sh CA) for sa	ipping, installing and bracing. R	Refer to and follow the latest edition	of BCSI (Buildin	ģ
bracing per BCSI. Unle	ess note	d otherwise, top o	chord sha	Il have properly attached structu	iral sheathing and bottom chord sha	all have a proper	ly 🔶
diagonal bracing instal	lled on t	he CLR per BCSI	sections	B3, B7, or B10, as applicable.	Apply plates to each face of truss at	nd position as	
Notes page for addition	nal infor	mation.		simile. Including 160A	IOI Stanuaru plate positions. Ref		
truss in conformance v	vv Build with ANS	SI/TPI 1, or for h	andling,	shipping, installation and bracin	g of trusses. A seal o <u>n t</u> his drawing, any f	anure to dulla the	; AN ITW COMPANY
usting this drawing, ind drawing for any structu	licates a	acceptance of prof e responsibility of	ressional the Build	engineering responsibility solely ing Designer per ANSI/TPI 1 Sec	ror the design shown. The suitabili c.2.	ty and use of this	North Building, 4th Floor
For more information s	see thes	e web sites: Alpin	e: alpine	itw.com: TPI: tpinst.org: SBCA: s	sbcacomponents.com: ICC: iccsafe	ora: AWC: awc.	org Glenview, IL 60025

SEQN: 7210 /	VAL	Ply: 1	Job Nu	mber: Q2410-340			Cust: R 9836 JRef: 1Y4O98360009 T32 /
FROM:		Qty: 2	The Far	m at Neills Creek			DrwNo: 309.24.1104.50542
			Truss L	abel: V3			/ YK 11/04/2024
			⊢	2'5"1 6'5"1	<u>10'5"1</u>		
			-		-		
					ll2X4 D		
				12 #284	4		
					0"15		
					0 ⁰		
				⊪2X4 B			
			≡3X4((D1)			
			Â			10"4	
						10 4	
				G F #2X4 #2X4	₩2X4 4		
			┝	10'5"1			
			L 2	2'5"1 _L 4' _L	4'		
			F 2	2'5"1 - 6'5"1 -	10'5"1		
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs), or *=PLF
TCLL: 20.00	Wind S	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity	/ Non-Gravity
TCDL: 10.00	Speed: Enclos	: 120 mph sure: Closed		Pf: 15.4 Ce: 1.0	VERT(LL): 0.001 A 999 240	$\frac{100 \text{ K} + 7 \text{ K}}{5 \text{ t}}$	/ KII / KW / O / KL
BCLL: 0.00 BCDL: 10.00	Risk C	ategory: II		Snow Duration: 1 15	HORZ(LL): 0.002 C 999 240	E [*] 83 /- Wind reactions	/- /53 /13 /23 based on MWERS
Des Ld: 40.00	EXP: C	Kzt: NA			HORZ(TL): 0.006 D	E Brg Wid =	125 Min Req = -
NCBCLL: 10.00	TCDL:	-leight: 20.04 π 5.0 psf		Building Code:	Creep Factor: 2.0	Bearing A is a l	rigid surface.
Soffit: 2.00	BCDL:	5.0 psf		IRC 2021	Max TC CSI: 0.288	Maximum Top	Chord Forces Per Ply (lbs)
Load Duration: 1.15	MWFR	S Parallel Dist: 0	to h/2	Rep Fac: Yes	Max Web CSI: 0.826	Chords Tens.	Comp.
opaoing. 24.0	Loc. fro	om endwall: Any		FT/RT:20(0)/10(0)		A - B 105	- 457
		GCpi: 0.18		Plate Type(s):			
	Wind L	Juration: 1.60		WAVE	VIEW Ver: 23.02.04A.0207.13	Chords Tens	Chord Forces Per Ply (lbs) Comp Chords Tens Comp
Top chord: 2x4 SP #2						A C 422	95 E E 442 04
Bot chord: 2x4 SP #2;	,					G-F 435	-91
Webs: 2x4 SP #3;							
Loading							
Bottom chord checked	l for 10.	00 psf non-concu	rrent				
Wind							
Wind loads based on I member design.	MWFR	3 with additional C	C&C				
Right end vertical expo	osed to	wind pressure.					
Deflection meets L/18	0.						
Wind loading based or	n both g	able and hip roof	types.				
Additional Notes					O h D'lle		
See DWG VALTN160	118 for	valley details.		""TH	CARO		
				it offer	SSION		
				12/201	E		
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				₹ (<u></u> 0:	04141		
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					GINEL		
				ON	HWAK		
					· · · · · · · · · · · · · · · · · · ·		
				11/04/2024			
	++1+1+ -			ABCD Engine	eering, PLLC NC COA 0838		
	NT**	FURNISH THIS D		G TO ALL CONTRACTORS INC	LUDING THE INSTALLERS	of DOOL (Duilt II	-
Component Safety Info	ie care i irmation	i, by TPI and SBC	A) for sa	afety practices prior to performing	these functions. Installers shall p	rovide temporary	9 (
attached rigid ceiling. L	ocation	s shown for perm	anent la	teral restraint of webs shall have	continuous lateral restraint (CLR),	installed with	iy 🔶
shown above and on the	ne Joint	Details, unless n	oted oth	erwise. Refer to drawings 160A	-Z for standard plate positions. Ref	er to job's Gener	
Alpine, a division of IT	N Buildi	ing Components (Group In	c. shall not be responsible for any	y deviation from this drawing, any f	ailure to build the	

Itruss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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

for slope: BC: 7.00 PSF

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss designed for unbalanced snow loads.

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 A12030ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

11/04/2024 ABCD Engineering, PLLC NC COA 0838

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LIR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineity com. TPI: toinst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org

Wind

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

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

See DWGS A12030ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Refer to DWG PB160160118 for piggyback details.

11/04/2024 ABCD Engineering, PLLC NC COA 0838

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SEQN: 7264	COMN	Ply: 1	Job Nu	mber: Q2410-340			Cust: R 9836 JRef: 1Y4O9830	60009 T22 ·
FROM:		Qty: 1	The Far	m at Neills Creek			DrwNo: 309.24.1313.1526))
		<u> </u>	Truss L	adei: Azi			/ YK 11/04/2	2024
				23'11"8 1'10 ' 4				
	2'3"8	10'5"7	+	18'3"7 <u>22'1"4</u> 30	0'7"7 37'8"9 44'2'	"9 51'	- -	
	23.8	81-15		₩6 <u>X</u> 8 ₩2 <u>X</u> 4	=8X8 //6X8	15 0.9"7		
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		40				<		
		7 <mark>∕</mark> ≢8	X8		(a) W13	K		
80			K	(a) // (a)	(a)		- 9 . 6	
				(a) (a)	(a)			
	c D	(a)						
	B	W1	-					
		=6>	K6		P 0	N		
4X	=4∧4 (8(E5) ∥2X4	+ 1		2X4 ≡4X8	=0/0		113×6	
	k		- 24'1"4 -		26'10"12		- _	
 	2'3"8	7'10"3				7 <u>6'5"1</u>	5	
	238	10111		1837 21118 30 12'1"12	01015 3789 446	1 51		
				24'1"4				
Loading Criteria (psf)	Wind (Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum R	eactions (lbs)	
TCLL: 20.00	Wind Speed	Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity	/Non-Gr /Rh /Rw /U	avity / RL
BCLL: 0.00	Enclos	sure: Closed		Lu: - Cs: 1.00	VERT(CL): 0.137 D 999 240	B 578 /-	/- /341 /-	/330
BCDL: 10.00	Risk C	ategory: II		Snow Duration: 1.15	HORZ(LL): 0.049 M	Q 3051 /-	/- /1867 /205	; /-
Des Ld: 40.00	Mean	Height: 18.00 ft		Building Code:	HORZ(TL): 0.101 M	M 759 /- Wind reactions	/- /590 /121 based on MWFRS	/-
Soffit: 2.00	TCDL:	5.0 psf 5.0 psf		IRC 2021	Max TC CSI: 0.537	B Brg Wid =	3.5 Min Req = 1.5 (Tru	ss)
Load Duration: 1.15	MWFR	S Parallel Dist: h/	'2 to h	TPI Std: 2014	Max BC CSI: 0.708	M Brg Wid =	3.5 Min Req = 3.2 (1ru 3.5 Min Req = 1.5 (Tru	ss) ss)
Spacing: 24.0 "	C&C D)ist a: 5.10 ft om endwall: not ir	13.00 ft	FT/RT:20(0)/10(0)	Wax Web CSI. 0.020	Bearings B, Q, Mombers not li	& M are a rigid surface.	275#
		GCpi: 0.18		Plate Type(s):		Maximum Top	Chord Forces Per Ply (I	bs)
Lumbor	Wind E	Duration: 1.60		WAVE Additional Natas	VIEW Ver: 23.02.04A.0207.13	Chords Tens.	Comp. Chords Tens	. Comp.
Top chord: 2x6 SP #2	:			WARNING: Furnish a copy	of this DWG to the	B-C 156 C-D 158	-658 G-H 89	2 - 146 5 - 163
Bot chord: 2x6 SP #2;	, B2,B3	2x4 SP #2;		installation contractor. Spec	cial care must be taken	D-E 118	-394 I-J 42	0 - 236
Webs. 2x4 SP #3, W		- 33, WTT,		See "WARNING" note belo	W.	E-F 600 F-G 891	-193 J-K 28 -145 K-L 20	2 - 489 2 - 659
Lt Slider: 2x4 SP #3; t	DIOCK ler	$1gth = 1.500^{\circ}$						
Bracing	restrais	t agually append of				Maximum Bot	Chord Forces Per Ply (I	bs) Comp
member.	restrain	it equally spaced o	n			B - W 494	-143 T-R 27	1 - 426
Plating Notes						V-U 988	-266 O-N 50	8 - 99
All plates are 3X4 exc	ept as n	noted.				Maximum Wal	Forese Der Div (lbe)	
Loading						Webs Tens.	Comp. Webs Tens	S. Comp.
Design Dead Loads b	ased on	n material weight a	djusted			D - U 272	-738 H-Q 26	9 - 1024
Bottom chord checked	o⊢ I for 10	00 psf non-concur	rrent	11111111111111111111111111111111111111	CARÓ	U-E 422 E-T 222	0 Q-I 44	5 - 1476 0 - 95
live load.				"ATA	- IN-	F-T 632	-67 P-J 20	4 - 832
Truss designed for un	balance	d snow loads.		i i i offe	55/0 N P =	F-R 299 R-H 665	-1326 J-O 46 -115 N-L 56	1 -43 5 -81
Wind						R - Q 401	- 1157 L - M 14	7 - 705
wind loads based on member design.	MWFR	5 with additional C	C&C					
Right end vertical exp	osed to	wind pressure.		i \\ 05	41419			
Wind loading based o	u. n hoth c	nable and hin roof	types		and the state			
	in boan g		typoo.		GINE			
				N	HWAK			
				11/04/2024	4444 44434			
				ABCD Enginee	ering, PLLC NC COA 0838			
	WA	RNING READ	AND FO					
Trusses require extrem	ANT**	in fabricating, han	dling, sh	ipping, installing and bracing. R	LUDING THE INSTALLERS efer to and follow the latest edition	of BCSI (Buildin	ġ	
bracing per BCSI. Unle attached rigid ceiling. I	ess note	d otherwise, top c is shown for perm	hord sha anent lat	all have properly attached structu eral restraint of webs shall have	ral sheathing and bottom chord sha continuous lateral restraint (CLR).	all have a proper	y	
diagonal bracing instal	led on t ne Joint	he CLR per BCSI Details, unless n	sections oted other	B3, B7, or B10, as applicable. A erwise. Refer to drawings 160A-	Apply plates to each face of truss ar Z for standard plate positions. Refe	nd position as er to job's Gener		ור⊏

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

SEQN: 7270	COMN Ply: 1	Job Number: Q2410-340		Cust: R 9836	JRef:1Y4O98360009 T37
	aty. 0	Truss Label: A1P		/ YK	11/04/2024
118"	→ 60°14 → 60°14 7 12 7 60°14	122"5 18'3"7 23'' 6'1"6 6'1"2 5'6'	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 + 438*8 13 + 511*15 + ≡6X6 H (a)t	11/04/2024
	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	$= \stackrel{P}{= 6X6} = \stackrel{O}{= 6X6}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	K ≡4X4 Ⅲ3X6	∎_⊕ ^{9′1*8}
	<mark>- 9′1″11</mark> - 9 ′1″11	26'5"4		"4	
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0	Wind Criteria Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 18.29 ft TCDL: 5.0 psf BCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 C&C Dist a: 4.37 ft	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Varies by Ld Case Varies by Ld Case	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.371 R 854 240 VERT(CL): 0.765 R 414 240 HORZ(LL): 0.367 U HORZ(LL): 0.801 U Creep Factor: 2.0 Max TC CSI: 0.733 Max BC CSI: 0.994 Max Web CSI: 0.775	▲ Maximum Reactions (Ik Gravity Loc R+ / R- / Rh Q 1505 /- /- W 1156 /- /- J 1374 /- /- Wind reactions based on M Q Brg Wid = 3.5 Min F J Brg Wid = 3.5 Min F Bearings Q, W, & J are a r	Non-Gravity / Rw / U / RL /833 /164 /389 /616 /85 /- /688 /161 /- MWFRS Req = 1.8 (Truss) Req = 1.5 (Truss) Req = 1.6 (Truss) Req = 1.6 (Truss)
Lumber	Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	FT/RT:20(0)/10(0) Plate Type(s): WAVE It is the responsibility of t	VIEW Ver: 23.02.04A.0207.13	Members not listed have for Maximum Top Chord For Chords Tens.Comp. (orces less than 375# ces Per Ply (lbs) Chords Tens. Comp.
Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; W1 W16 2x4 SP #2; W8,V	; T4 2x4 SP SS; B3 2x4 SP SS Dense; 2x6 SP #2; W7,W13, W12 2x4 SP SS;	Truss Fabricator to revie cutting lumber to verify th dimensions and loads, c plans/specifications and	w this drawing prior to hat all data, including onform to the architectural fabricators truss layout.	A - B 176 - 485 E B - C 678 - 2076 F C - D 646 - 1529 C D - E 574 - 1013 F	E - F 601 - 1083 - G 522 - 883 G - H 545 - 932 H - I 431 - 793 Cres Per Ply (lbs)
(a) Continuous lateral member.	restraint equally spaced o	n.		Chords Tens.Comp. C Q - P 1826 - 849 N P - O 1585 - 713 N O - N 1235 - 555 L	Chords Tens. Comp. N - M 1920 - 889 M - L 960 - 444 - K 615 - 316
for slope: BC: 7.00 PS Bottom chord checked	ased on material weight a SF d for 10.00 psf non-concu	rrent		Maximum Web Forces Pe Webs Tens.Comp. \	er Ply (lbs) Vebs Tens. Comp.
Truss designed for un Truss supports 250# r 28-0-0; supported by " by 6 trusses. Wind Wind loads based on member design	balanced snow loads. nech unit; unit centered a IC; unit width 4-0-0; supp MWFRS with additional C	t orted	SEAL	A - Q 152 - 378 Q Q - B 519 - 1811 U P - C 430 - 53 V C - O 254 - 562 L D - O 774 - 199 H D - N 200 - 569 H T - M 89 - 436 H	G - U 243 - 392 J - V 373 - 602 / - L 328 - 585 - H 736 - 264 H - K 346 - 677 < - I
Member design. End verticals exposed meets L/180. Wind loading based o NOTE: THE ATTIC SI UNINHABITABLE	to wind pressure. Deflect n both gable and hip roof PACE IS DESIGNED ONI	tion types. LY	NGINEER AND		
		11/04/2024 ABCD Engi	ineering, PLLC NC COA 0838		
IMPORT/A Trusses require extrem Component Safety Info bracing per BCSI. Unle attached rigid ceiling. I diagonal bracing instal shown above and on th Notes page for addition Alpine, a division of IT truss in conformance w	**WARNING READ NT** FURNISH THIS D te care in fabricating, han ormation, by TPI and SBC ocations shown for perm led on the CLR per BCSI ne Joint Details, unless n nal information. W Building Components (with ANSI/TPI 1 or for ha	AND FOLLOW ALL NOTES ON THIS RAWING TO ALL CONTRACTORS IN ding, shipping, installing and bracing. A) for safety practices prior to perform thord shall have properly attached stru anent lateral restraint of webs shall hav sections B3, B7, or B10, as applicable oted otherwise. Refer to drawings 160 Group Inc. shall not be responsible for andling, shipping, installation and brac	DRAWING! NCLUDING THE INSTALLERS Refer to and follow the latest edition ing these functions. Installers shall p ctural sheathing and bottom chord sh ve continuous lateral restraint (CLR), . Apply plates to each face of truss a OA-Z for standard plate positions. Ref any deviation from this drawing, any fic- cing of trusses. A seal on this drawing	of BCSI (Building ovide temporary III have a properly nstalled with rd position as er to job's General ailure to build the g or cover page	

listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Top chord: 2x4 SP SS;

Bot chord: 2x4 SP #2;

Webs: 2x4 SP #3; W6,W8 2x4 SP #2; W9 2x6 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Design Dead Loads based on material weight adjusted for slope: BC: 7.00 PSF

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss designed for unbalanced snow loads.

Wind

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

End verticals exposed to wind pressure. Deflection meets L/180.

Wind loading based on both gable and hip roof types.

Correction and the startes

11/04/2024 ABCD Engineering, PLLC NC COA 0838

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the LIR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1. or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineity com. TPI: toinst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org

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

Maximum Bot Chord Forces Per Ply (lbs)

Chords

I - H

H - G

Webs

I - E

E - G

Tens. Comp.

Tens. Comp.

602 - 1409

- 478

- 478

- 220

821

821

486

Chords Tens.Comp.

366 - 734

1673 - 836

415 - 1405

1490 - 280

278 - 692

Maximum Web Forces Per Ply (lbs) Tens.Comp.

K - J

J - I

Webs

B - K

B - J C - I

SEQN: 7207 /	GABL	Ply: 1	Job Nur	nber: Q2410-340		Cust: R 9836 JRef: 1Y4O98360009 T13 /
FROM:		Qty: 1	The Fan	n at Neills Creek		DrwNo: 309.24.1104.50700
			Truss L	abel: VA5		/ YK 11/04/2024
		uty. I	=3X4(D1)	7 12 6X6		b 1351
				///////////////////////////////////////		Ψ
				≡6X6	III 1 774	
				16'1"10		
			 -	16'1"10		
				16'1"10 I	, 	
Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind C Wind S Speed: Enclos Risk Ca EXP: C Mean H TCDL: BCDL: MWFR C&C D Loc. frc	Criteria itd: ASCE 7-16 : 120 mph ure: Closed ategory: II > Kzt: NA Height: 18.37 ft 5.0 psf :S Parallel Dist: 0 list a: 3.00 ft om endwall: Any GCpi: 0.18	to h/2	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IRC 2021 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): Ventorial	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 240 VERT(CL): 0.014 A 999 240 HORZ(LL): -0.008 E HORZ(TL): 0.010 E Creep Factor: 2.0 Max TC CSI: 0.248 Max BC CSI: 0.161 Max Web CSI: 0.466	▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL F* 83 /- /- /54 /11 /23 Wind reactions based on MWFRS F Brg Wid = 193 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 167 - 588
	Wind D	Juration: 1.60		WAVE	VIEW Ver: 23.02.04A.0207.13	Maximum Bot Chord Forces Per Ply (lbs)
Lumber Top chord: 2x4 SP #2 Bot chord: 2x4 SP #2; Webs: 2x4 SP #3; M4 Bracing (a) Continuous lateral member. Plating Notes All plates are 2X4 exc Loading Bottom chord checked live load. Wind Wind loads based on member design.	2x4 SP restrain ept as n for 10.0 MWFRS	SS; t equally spaced o oted. 00 psf non-concur S with additional (on rrent C&C	surf H	CARO	A - H 562 - 141
Right end vertical exp	osed to	wind pressure		un Bli	ESSIO	
Deflection meets L/18	0.				E	
Wind loading based o	n both g	able and hip roof	types.	! //∝ c	SEAL A	
Additional Notes See DWGS A12030E GABRST160118 for g requirements.	NC1601 able wir	18, GBLLETIN01 Id bracing and oth	18, & ner	0 4 0 4 0 4 0 4 0 0 4 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	VGINEER	
				11/04/2024		
				ABCD Engine	eering, PLLC NC COA 0838	
IMPORTA Trusses require extrem Component Safety Info pracing per BCSI. Unle attached rigid ceiling. L diagonal bracing instal shown above and on th Notes page for addition Appine, a division of ITN	**WAF NT F ie care i rmation ss note ocation led on th ne Joint nal inforr W Buildi	INING** READ URNISH THIS D in fabricating, han , by TPI and SBC d otherwise, top c s shown for perm. The CLR per BCSI Details, unless n mation. Ing Components (UPD)	AND FO RAWING dling, shi chord sha anent lat sections oted othe Group Inc	LLOW ALL NOTES ON THIS DI 5 TO ALL CONTRACTORS INC 5 TO ALL CONTRACTORS INC 6 pping, installing, and bracing. R fety practices prior to performing II have properly attached structu eral restraint of webs shall have B3, B7, or B10, as applicable. A envise. Refer to drawings 160A c, shall not be responsible for an	RAWING! LUDING THE INSTALLERS lefer to and follow the latest edition these functions. Installers shall pi ral sheathing and bottom chord sha continuous lateral restraint (CLR), i upply plates to each face of truss ar -Z for standard plate positions. Refe y deviation from this drawing, any fa	of BCSI (Building rovide temporary installed with ad position as er to job's General ailure to build the
truss in conformance w listing this drawing, ind drawing for any structu	icates a re is the	CCEPtance of professional profession of the second	andling, essional the Build	snipping, installation and bracin engineering responsibility solely ng Designer per ANSI/TPI 1 Sec	g or trusses. A seal on this drawing for the design shown. The suitabilit c.2.	g or cover page y and use of this North Building, 4th Floor

Gable Stud Reinforcement Detail ASCE 7-16: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00 Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 Dr: 100 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Gable Stud Reinforcement Detail ASCE 7-16: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00 Dr: 100 Mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 Dr: 100 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

CLR Reinforcing Member Substitution

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

Notes

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

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

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

Web Member	Specified CLR	Alternative Reir	forecement
Size	Restraint	T- or L- Reinf.	Scab Reinf,
2x3 or 2x4	1 row	2×4	1-2×4
2x3 or 2x4	2 rows	2×6	2-2×4
2×6	1 row	2×4	1-2×6
2×6	2 rows	2×6	2-2×4(%)
2×8	1 row	2×6	1-2×8
2×8	2 rows	2×6	2-2×6(ж)

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.

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

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

SPACING

11/04/2024

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

AN ITW COMPAN

Valley Detail - ASCE 7-16: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better. Bot Chord 2x4 SP #2N or SPF #1/#2 or better. Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with: (2) 16d box (0.135" x 3.5") nails toe-nailed for ASCE 7-16, 30' Mean Height, Enclosed Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on supporting truss material at connection location: 170 mph for SP (G = 0.55, min.),155 mph for DF-L (G = 0.50, min.), or 120 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses below valley trusses.

Bottom chord of valley trusses may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

- Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation. Πr
 - Purlins at 24" o.c. or as otherwise specified on engineer's sealed design Πr
 - By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design
- *** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.
- ++ Larger spans may be built as long as the vertical height does not exceed 14'-0''.

All plates shown are Alpine Wave Plates.