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

COA #0 278 02/11/2022

Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 21-6456
Job Description: Brian Dicks Residence	
Address:	

Job Engineering Criteria:					
Design Code: FBC 7th Ed. 2020 Res.	IntelliVIEW Version: 21.02.00  JRef #: 1XcZ2150017				
Wind Standard: ASCE 7-16 Wind Speed (mph): 120 Building Type: Closed	Design Loading (psf): 40.00				

This package contains general notes pages, 60 truss drawing(s) and 7 detail(s).

Item	Drawing Number	Truss
1	042.22.1430.01630	A01
3	042.22.1429.55987	A03
5	042.22.1429.51447	B01
7	042.22.1429.45270	B03
9	042.22.1429.22207	C01
11	042.22.1429.03670	C03
13	042.22.1428.33030	E02
15	042.22.1428.25603	E04
17	042.22.1428.05407	E06
19	042.22.1427.06103	E08
21	042.22.1427.02123	E10
23	042.22.1426.56610	F02
25	042.22.1426.51853	G01
27	042.22.1426.48350	G03
29	042.22.1426.44850	G05
31	042.22.1425.15520	H02
33	042.22.1424.54763	PB01
35	042.22.1424.50813	PB03
37	042.22.1424.45410	PB05
39	042.22.1424.42083	PB07
41	042.22.1424.37293	V02
43	042.22.1424.33783	V04
45	042.22.1424.29333	V06
47	042.22.1424.26190	V08
49	042.22.1424.20573	V10
51	042.22.1424.17937	V12

Item	Drawing Number	Truss
2	042.22.1429.57980	A02
4	042.22.1429.54127	A04
6	042.22.1429.47997	B02
8	042.22.1429.42130	B04
10	042.22.1429.05487	C02
12	042.22.1428.35273	E01
14	042.22.1428.30370	E03
16	042.22.1428.08310	E05
18	042.22.1428.02350	E07
20	042.22.1427.04100	E09
22	042.22.1426.59243	F01
24	042.22.1426.54037	F03
26	042.22.1426.49823	G02
28	042.22.1426.46783	G04
30	042.22.1426.01603	H01
32	042.22.1425.12610	H03
34	042.22.1424.52433	PB02
36	042.22.1424.47253	PB04
38	042.22.1424.43727	PB06
40	042.22.1424.39390	V01
42	042.22.1424.35577	V03
44	042.22.1424.31500	V05
46	042.22.1424.27597	V07
48	042.22.1424.24730	V09
50	042.22.1424.19290	V11
52	042.22.1424.16630	V13



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COA #0 278 02/11/2022

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 21-6456
Job Description: Brian Dicks Residence	
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Item	Drawing Number	Truss
53	042.22.1424.15153	V14
55	042.22.1424.12807	V16
57	042.22.1424.10227	V18
59	042.22.1424.07403	V20
61	BRCLBSUB0119	
63	PB160160118	
65	GABRST160118	
67	A12015ENC160118	

Item	Drawing Number	Truss
54	042.22.1424.13967	V15
56	042.22.1424.11533	V17
58	042.22.1424.08923	V19
60	042.22.1424.05710	V21
62	VALTN160118	
64	A12030ENC160118	
66	GBLLETIN0118	

## **General Notes**

## Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

### Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

# Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

#### Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

## Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

# **General Notes** (continued)

## Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

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

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

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

Ic = Incised lumber.

FJ = Finger Jointed lumber.

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

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

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

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

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

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

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

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

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

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

PP = Panel Point.

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

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

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

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

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

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

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

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

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

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

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

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

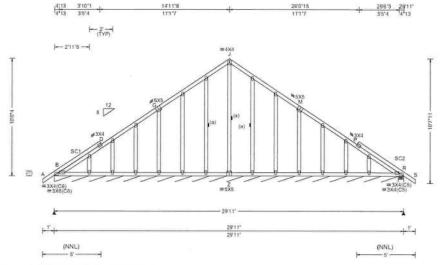
Refer to ASCE-7 for Wind and Seismic abbreviations.

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

## References:

- 1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 69788 GABL Ply: 1 Job Number: 21-6456 Cust: R215 JRef: 1XcZ2150017 FROM: Qty: 1 Brian Dicks Residence DrwNo: 042.22.1430.01630 Truss Label: A01 / DF 02/11/2022



Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.003 D 999 240 VERT(CL): 0.005 D 999 180 HORZ(LL): 0.003 P -		
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Mean Height: 0.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.004 P - Creep Factor: 2.0  Max TC CSI: 0.317  Max BC CSI: 0.087  Max Web CSI: 0.124		
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17		

	G	ravity		N	on-Gra	vity
Loc	R+	/ R-	/Rh	/ Rw	/U	/ RL
В*	81	1-	/-	/44	1-	/6
R	254	1-	1-	/125	1-	1-
Win	d read	ctions b	ased on N	<b>IWFRS</b>		
В	Brg V	Vid = 38	53 Min F	Reg = -		
R	Brg V	Vid = 5.	5 Min F	Reg = 1.5	(Trus	s)
Bea			re a rigid			
			ed have for		a than	2754

#### Lumber

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

Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

#### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### **Plating Notes**

All plates are 2X4 except as noted.

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

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



02/11/2022

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

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

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 69824 COMN Ply: 1 Job Number: 21-6456 Cust; R 215 JRef: 1XcZ2150017 FROM: Qty: 7 Brian Dicks Residence DrwNo: 042.22.1429.57980 Truss Label: A02 / DF 02/11/2022 14'11'8 7'3'9 H ⊪2X4 ⊪2X4 =6X8

29'11"

22'3"1

Loading Criteria (psf) TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16	Snow Criteria (Pg.Pf in PSF) Pg: NA Ct: NA CAT: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/#	▲ Maximum Reactions (Ibs) Gravity
TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Speed: 120 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 0.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: Any GCoi: 0.18	Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	VERT(LL): 0.057 I 999 240 VERT(CL): 0.118 I 999 180 HORZ(LL): 0.023 F HORZ(TL): 0.048 F Creep Factor: 2.0 Max TC CSI: 0.781 Max BC CSI: 0.252 Max Web CSI: 0.387	Loc R+ /R- /Rh / B 1329 /- /- /7 F 1329 /- /- /7 Wind reactions based on MWF B Brg Wid = 5.5 Min Req: F Brg Wid = 5.5 Min Req: Bearings B & F are a rigid surfa Members not listed have forces Maximum Top Chord Forces Chords Tens.Comp. Chord
	/ind Duration: 1.60 WAVE	VIEW Ver: 21.02.00.1005.17	B - C 108 - 1820 D - E	

14'11"8

#### Lumber

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

## Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Wind loading based on both gable and hip roof types.

Gravity				Non-Gravity		
Loc	R+	/ R-	/Rh	/ Rw	/ U	/RL
В	1329	/-	/-	/751	1-	/181
F	1329	1-	1-	/751	1-	1-
Win	d read	ctions b	ased on	<b>MWFRS</b>		
В	Brg V	Vid = 5.	5 Min	Reg = 1.5	5 (Trus	ss)
F	Brg V	Vid = 5.	5 Min	Reg = 1.	5 (Trus	s)
Bea	rings	B&Fa	re a rigio	surface.	9859	V.
Men	nbers	not liste	ed have	forces les	s than	375#
Max	imun	Top C	hord Fo	orces Per	Ply (II	os)
Cho	rds 7	ens.Co	mp.	Chords	Tens.	Comp.
B - (	C	108 -	1820	D-E	156	- 1268
C - I	D	156 -	1268	E-F	108	- 1820

1'0"8

29'11

## Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B-J	1409	0	I-H	1407	0
J - I	1407	0	H-F	1409	0

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.C	Comp.	Webs	Tens.	Comp.
C-1	112	- 571	I-E	112	- 571
D - I	812	-55			



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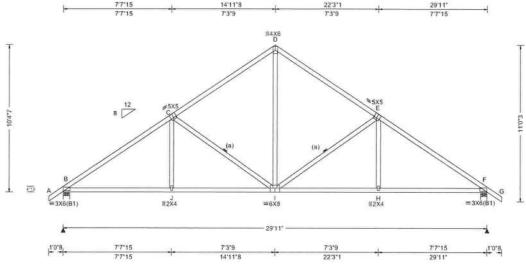
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing,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

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6750 Forum Drive Suite 305

Orlando FL, 32821

SEQN: 49734 COMN Ply: 1 Job Number: 21-6456 Cust: R 215 JRef: 1XcZ2150017 T2 FROM: Qty: 15 Brian Dicks Residence DrwNo: 042.22.1429.55987 Truss Label: A03 KD / DF 02/11/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.057 l 999 240 VERT(CL): 0.118 l 999 180 HORZ(LL): 0.023 F HORZ(TL): 0.048 F
NCBCLL: 10.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Mean Height: 15.04 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Creep Factor: 2.0 Max TC CSI: 0.781 Max BC CSI: 0.252 Max Web CSI: 0.387
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

#### ▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /R-/Rw /U / RL В 1329 /-1-/751 /181 1329 /-1-1751 Wind reactions based on MWFRS Brg Wid = 5.5 Min Req = 1.5 (Truss) Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B-C 108 - 1820 D-E 156 - 1268 C-D 156 - 1268 E-F 108 - 1820

#### Lumber

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

### Bracing

(a) Continuous lateral restraint equally spaced on member.

#### Wind

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

Wind loading based on both gable and hip roof types.

## Maximum Bot Chord Forces Per Ply (Ibs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
B-J	1409	0	1 - H	1407	0
J-1	1407	0	H-F	1409	0

## Maximum Web Forces Per Ply (lbs)

Webs	Tens.0	Comp.	Webs Tens. (		Comp.	
C-1	112	-571	I-E	112	- 571	
D - I	812	- 55				



02/11/2022

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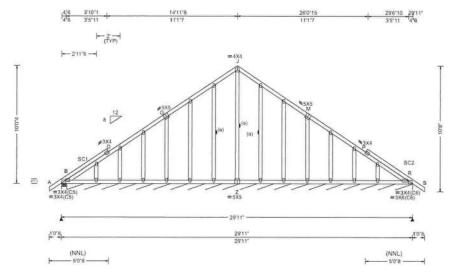
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6750 Forum Drive Suite 305

Orlando FL, 32821

SEQN: 69551 GABL Ply: 1 Job Number: 21-6456 Cust: R 215 JRef: 1XcZ2150017 FROM: Qty: 1 Brian Dicks Residence DrwNo: 042.22.1429.54127 Truss Label: A04 KD / DF 02/11/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: II	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	PP Deflection in loc L/defl L/# VERT(LL): 0.003 P 999 240 VERT(CL): 0.005 P 999 180 HORZ(LL): 0.003 P -
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.00 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18	Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.004 P
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17

Gravity				N	on-Gra	n-Gravity	
Loc	R+	/ R-	/Rh	/ Rw	/U	/RL	
В	258	/-	/-	/137	1-	/178	
R*	81	1-	1-	144	1-	1-	
Win	d read	ctions b	ased on N	<b>MWFRS</b>			
В	Brg V	Vid = 5.	5 Min F	Reg = 1.5	(Trus	s)	
R	Brg V	Vid = 38	53 Min F	Reg = -		3.6	
Bea	rings	В&Ва	re a rigid	surface.			
Mer	nbers	not liste	ed have fo	orces les	s than	375#	

#### Lumber

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

Stack Chord: SC1 2x4 SP #2; Stack Chord: SC2 2x4 SP #2;

### Bracing

(a) Continuous lateral restraint equally spaced on

## **Plating Notes**

All plates are 2X4 except as noted.

#### **Purlins**

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

#### Wind

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

Wind loading based on both gable and hip roof types.

#### **Additional Notes**

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

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



02/11/2022

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

\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

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: binst.org: SBCA: sbcacomponents.com: ICC: iccsafe.org: AWC: awc.org.



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