

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 23-7316-A RVF-LOT #29 ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Pages or sheets covered by this seal: I62587356 thru I62587381

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



December 18,2023

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



- II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
   Coblecture spaced at 2.0.0 ac
- Gable studs spaced at 2-0-0 oc.
   This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a loce par bottom role and nonconcernent with any other live loads.
   12) \* This truss has been designed for a live load of 20.0ps for the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SEAL 45844 December 18,2023

> TRENCIO A Mitek Affiliate

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcaccomponents.com)



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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
			-	-		162587359
23-7316-A	M02	HALF HIP	3	1		
			-		Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:02 2023	Page 2

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:02 2023 Page 2 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-5SD8eBqYVPDfezsHT5o0W07mwhM9bpZnmSuf\_Xy8ILB

	Vert: 1-3=-43, 5-7=-20, 3-4=-83
	Concentrated Loads (lb)
	Vert: 12=-160
2)	Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-3=-60, 5-7=-20, 3-4=-90
	Concentrated Loads (lb)
	Vert: 12=-160
3)	Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-3=-50, 5-7=-20, 3-4=-139
	Concentrated Loads (lb)
•	Vert: 12=-160 Deadle 0.35 Onew (belowed) = 0.35 Attic Floore Lumber Income 4.45 Plate Income 4.45
4)	Dead + 0.75 Show (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (pii) $V_{ort}$ (1) 2 - 27 E Z - 20 2 4 - 122
	Vell. 1-5=-57, 5-7=-20, 5-4=-155
	Vort: 12–160
5)	Dead + 0.75 Snow (Unbal, Left) + 0.75 Attic Floor: Lumber Increase=1.15 Plate Increase=1.15
0)	Liniform Loads (plf)
	Vert 1-10=-37 3-10=-42 5-7=-20 3-4=-114
	Concentrated Loads (lb)
	Vert: 12=-160
6)	Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
,	Uniform Loads (plf)
	Vert: 1-3=-25, 5-7=-20, 3-4=-135
	Concentrated Loads (lb)
	Vert: 12=-160
7)	Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
	Uniform Loads (plf)
	Vert: 1-3=-20, 5-7=-40, 3-4=-50
	Concentrated Loads (lb)
	Vert: 12=-160
8)	Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
	Vert: 1-2=60, 2-11=50, 3-11=34, 5-7=-12, 3-4=32
	$\square 012. 1-2=-72, 2-11=-02, 3-11=-40, 4-3=30, 3-4=02$
	Vort: 12–160
۹١	Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase-1.60. Plate Increase-1.60
0)	Liniform Loads (nlf)
	Vert 1-2=58 2-3=64 5-7=-12 3-4=32
	Horz: 1-2=-70, 2-3=-76, 4-5=-24, 3-4=62
	Concentrated Loads (Ib)
	Vert: 12=-160
10	) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=1, 2-3=-46, 5-7=-20, 3-4=-64
	Horz: 1-2=-21, 2-3=26, 4-5=-35, 3-4=-26
	Concentrated Loads (Ib)
	Vert: 12=-160
11	) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-41, 2-3=-46, 5-7=-20, 3-4=-64
	H0rZ: 1-2=21, 2-3=26, 4-5=27, 3-4=-26
	Vort 12 - 160
10	Vell. 12=-100 Dead L 0.6 MW/ERS Wind (Dec. Internal) Laft: Lumber Increase-1.60. Plate Increase-1.60
12	Dedu + 0.0 MWFRS Wind (FOS. Internal) Leit. Lumber increase=1.00, Flate increase=1.00
	Vort: 1-2-28 2-3-13 5-7-12 3-4-8
	Horz: $1-2=-20$ , $2-3=-25$ , $4-5=18$ , $3-4=38$
	Concentrated Loads (Ib)
	Vert 12=-160
13	) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60. Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=3, 2-3=8, 5-7=-12, 3-4=8
	Horz: 1-2=-15, 2-3=-20, 4-5=-15, 3-4=38
	Concentrated Loads (lb)
	Vert: 12=-160
14	) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-16, 2-3=-21, 5-7=-20, 3-4=-39
	Horz: 1-2=-4, 2-3=1, 4-5=7, 3-4=-1
	Concentrated Loads (lb)

Vert: 12=-160

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LOAD CASE(S) Standard Uniform Loads (plf)

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	100507050	
23-7316-A	M02	HALF HIP	3	1		162587359	
Piverside Poof Truss LLC	Job Reference (optional)						
Riverside Roof Huss, ELC,	Danville, va - 24541,	ID:BxI2Mv	vYau_NHk	braGCmH	loyOvst-5SD8eBqYVPDfezsHT5o0W07mwhM9bpZnmSuf_	_Xy8ILB	
15) Dead + 0.6 MWFRS W	/ind (Neg. Internal) Right: Lur	nber Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)							
Vert: 1-2=-5, 2	2-3=-10, 5-7=-20, 3-4=-39						
Concentrated Loads (It	) )						
Vert: 12=-160	, 						
16) Dead + 0.6 MWFRS W Uniform Loads (plf)	and (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase=1.60					
Vert: 1-2=32, 2	2-3=17, 5-7=-12, 3-4=-1						
Horz: 1-2=-44,	, 2-3=-29, 4-5=23, 3-4=29						
Vert: 12=-160	)						
17) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Paral	el: Lumber Increase=1.60, Plate Increase=1.60	1				
Uniform Loads (plf)	2-3-6 5-712 3-412						
Horz: 1-2=-33,	, 2-3=-18, 4-5=23, 3-4=18						
Concentrated Loads (It	o)						
18) Dead + 0.6 MWFRS W	(ind (Neg. Internal) 1st Parall	el: Lumber Increase=1.60. Plate Increase=1.60					
Uniform Loads (plf)	···· (··· g······.), ···· ···						
Vert: 1-2=-16,	2-3=-21, 5-7=-20, 3-4=-39						
Concentrated Loads (It	2-3=1, 4-5=12, 3-4=-1 c)						
Vert: 12=-160							
19) Dead + 0.6 MWFRS W	(ind (Neg. Internal) 2nd Paral	lel: Lumber Increase=1.60, Plate Increase=1.60	)				
Vert: 1-2=-16,	2-3=-21, 5-7=-20, 3-4=-39						
Horz: 1-2=-4, 2	2-3=1, 4-5=12, 3-4=-1						
Vert: 12=-160	))						
20) Dead + Snow on Overl	nangs: Lumber Increase=1.1	5, Plate Increase=1.15					
Uniform Loads (plf)	2 2 20 5 7 20 2 4 50						
Concentrated Loads (It	2-3=-20, 3-7=-20, 3-4=-30 c)						
Vert: 12=-160	· · · · · · · · · · · · · · · · · · ·						
21) Dead + Snow (Unbal. L Uniform Loads (plf)	_eft): Lumber Increase=1.15,	Plate Increase=1.15					
Vert: 1-10=-43	8, 3-10=-49, 5-7=-20, 3-4=-57						
Concentrated Loads (It	o)						
22) Dead + Snow (Unbal. F	Right): Lumber Increase=1.15	5, Plate Increase=1.15					
Uniform Loads (plf)							
Vert: 1-3=-27, Concentrated Loads (It	5-7=-20, 3-4=-85						
Vert: 12=-160	5)						
23) Dead: Lumber Increase	e=0.90, Plate Increase=0.90	Plt. metal=0.90					
Vert: 1-3=-20,	5-7=-20, 3-4=-50						
Concentrated Loads (It	o)						
Vert: 12=-160 24) Dead + 0 75 Snow (bal	l) + 0 75 Attic Floor + 0 75(0	6 MWERS Wind (Neg. Int) Left): Lumber Increa	se=1.60	Plate Incr	rease=1.60		
Uniform Loads (plf)							
Vert: 1-2=-34,	2-3=-38, 5-7=-20, 3-4=-124						
Concentrated Loads (It	2-3=1, 4-5=5, 3-4=-1 )						
Vert: 12=-160			4.00		1.00		
25) Dead + 0.75 Snow (bal Uniform Loads (plf)	1.) + 0.75 Attic Floor + 0.75(0)	.6 MWFRS Wind (Neg. Int) Right): Lumber Incre	ease=1.60	, Plate In	crease=1.60		
Vert: 1-2=-26,	2-3=-30, 5-7=-20, 3-4=-124						
Horz: 1-2=-11,	, 2-3=-7, 4-5=-19, 3-4=-1						
Vert: 12=-160	)						
26) Dead + 0.75 Snow (bal	l.) + 0.75 Attic Floor + 0.75(0	.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumbe	r Increase	e=1.60, Pl	ate		
Increase=1.60 Uniform Loads (plf)							
Vert: 1-2=-34,	2-3=-38, 5-7=-20, 3-4=-124						
Horz: 1-2=-3, 2	2-3=1, 4-5=9, 3-4=-1						
Vert: 12=-160	וי						
27) Dead + 0.75 Snow (bal	l.) + 0.75 Attic Floor + 0.75(0	6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumb	er Increas	e=1.60, P	late		
Increase=1.60							
Vert: 1-2=-34,	2-3=-38, 5-7=-20, 3-4=-124						
Horz: 1-2=-3, 2	2-3=1, 4-5=9, 3-4=-1						
Vert: 12=-160	וי						

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23-7316-A	M02	HALF HIP	3	1	lak Defense (astimal)	102567359
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	I g 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:02 2023	3 Page 4
		ID:BxI2M	wYau_NHk	kbraGCmH	loyOvst-5SD8eBqYVPDtezsHT5o0W07mwhM9bpZnmSut	_Xy8ILB
28) Dead + 0.75 Roof Live	1 (bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Ir	crease=1.	.60, Plate	Increase=1.60	
Uniform Loads (plf)	2 2 - 51 5 7 - 20 2 4 - 120					
Horz: 1-2=-3,	2-3=1, 4-5=5, 3-4=-129					
Concentrated Loads (I Vert: 12=-160	b)					
29) Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) Right): Lumber	Increase=	1.60, Plat	e Increase=1.60	
Vert: 1-2=-39,	2-3=-43, 5-7=-20, 3-4=-129					
Horz: 1-2=-11 Concentrated Loads (I	, 2-3=-7, 4-5=-19, 3-4=-1 b)					
Vert: 12=-160						
Uniform Loads (plf)	(bal.) + 0.75 Allic Floor + 0.7	(0.6 MWFRS wind (Neg. Int) 1st Parallel): Lu	mber incre	ease=1.60	J, Plate Increase=1.60	
Vert: 1-2=-47, Horz: 1-2=-3.	2-3=-51, 5-7=-20, 3-4=-129 2-3=1, 4-5=9, 3-4=-1					
Concentrated Loads (I	b)					
31) Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.7	75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): L	umber Inci	rease=1.6	0, Plate Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-47	2-3=-51 5-7=-20 3-4=-129					
Horz: 1-2=-3,	2-3=1, 4-5=9, 3-4=-1					
Concentrated Loads (I Vert: 12=-160	b)					
32) Dead + Minimum Snov	w: Lumber Increase=1.15, Pla	ate Increase=1.15				
Vert: 1-3=-20,	5-7=-20, 3-4=-80					
Vert: 12=-160	D)					
33) Dead + 0.6 C-C Wind	Min. Down: Lumber Increase	=1.60, Plate Increase=1.60				
Vert: 1-2=4, 2	-3=-28, 5-7=-12, 3-4=-46					
Horz: 1-2=-16 Concentrated Loads (I	b)					
Vert: 12=-160 34) Dead + 0.6 C-C Wind	Min Upward: Lumber Increas	se=1.60. Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-3=4, 5 Horz: 1-3=-16	-7=-12, 3-4=-14 , 4-5=16, 3-4=16					
Concentrated Loads (I Vert: 12=-160	b)					
35) 3rd Unbal.Dead + Sno	w (balanced) + Parallel: Lum	ber Increase=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-3=-27,	5-7=-20, 3-4=-100					
Concentrated Loads (I Vert: 12=-160	b)					
36) 4th Unbal.Dead + Sno	w (balanced) + Parallel: Lum	ber Increase=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-3=-70,	5-7=-20, 3-4=-57					
Concentrated Loads (I Vert: 12=-160	b)					
37) 5th Unbal.Dead + 0.75	Snow (balanced) + 0.75 Atti	c Floor + Parallel: Lumber Increase=1.15, Plate	Increase	=1.15		
Uniform Loads (pif) Vert: 1-3=-25,	5-7=-20, 3-4=-146					
Concentrated Loads (I Vert: 12=-160	b)					
38) 6th Unbal.Dead + 0.75	Snow (balanced) + 0.75 Atti	c Floor + Parallel: Lumber Increase=1.15, Plate	Increase	=1.15		
Uniform Loads (pif) Vert: 1-3=-57,	5-7=-20, 3-4=-114					
Concentrated Loads (I Vert: 12=-160	b)					
39) 7th Unbal.Dead + 0.75	Snow (unbal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) +	Parallel: L	umber In	crease=1.60,	
Plate Increase=1.60 Uniform Loads (plf)						
Vert: 1-2=-22, Horz: 1-2=-3	2-3=-26, 5-7=-20, 3-4=-137 2-3=1 4-5=5 3-4=-1					
Concentrated Loads (I	b)					
vert: 12=-160 40) 8th Unbal.Dead + 0.75	Snow (unbal.) + 0.75 Attic F	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) +	Parallel: L	umber In	crease=1.60,	
Plate Increase=1.60						
Vert: 1-2=-54,	2-3=-58, 5-7=-20, 3-4=-105					
Horz: 1-2=-3, Concentrated Loads (I	∠-3=1, 4-5=5, 3-4=-1 b)					
Vert: 12=-160						

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23-7316-A	M02	HALE HIP	3	1		162587359
			0		Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,	ID:Bxl2	MwYau NH	8.530 s Ai kbraGCmF	Jg_2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:02 2023 ∣ IlovOvst-5SD8eBqYVPDfezsHT5o0W07mwhM9bpZnmSuf⇒	Page 5 Kv8lLB
LOAD CASE(S) Standard 41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (lf) Vert: 12=-160 42) 10th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (lf)	Snow (unbal.) + 0.75 Attic F 2-3=-18, 5-7=-20, 3-4=-137 2-3=-7, 4-5=-19, 3-4=-1 )) 5 Snow (unbal.) + 0.75 Attic 1 2-3=-50, 5-7=-20, 3-4=-105 2-3=-7, 4-5=-19, 3-4=-1	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Righ	t) + Parallel ht) + Paralle	: Lumber   el: Lumber	ncrease=1.60, Plate Increase=1.60	,
Vert: 12=-160	·)					
43) 11th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 2 Concentrated Loads (lt	5 Snow (unbal.) + 0.75 Attic   2-3=-26, 5-7=-20, 3-4=-137 2-3=1, 4-5=9, 3-4=-1 ))	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	Parallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60	
Vert: 12=-160 44) 12th Unbal.Dead + 0.7	5 Snow (unbal.) + 0.75 Attic	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st	Parallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lk Vert: 12=-160	2-3=-58, 5-7=-20, 3-4=-105 2-3=1, 4-5=9, 3-4=-1 ))		, .			
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 2	5 Snow (unbal.) + 0.75 Attic   2-3=-26, 5-7=-20, 3-4=-137 2-3=1, 4-5=9, 3-4=-1	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	
Concentrated Loads (it Vert: 12=-160 46) 14th Unbal.Dead + 0.73 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2	)) 5 Snow (unbal.) + 0.75 Attic   2-3=-58, 5-7=-20, 3-4=-105 2-3=1, 4-5=9, 3-4=-1	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	
Concentrated Loads (lk Vert: 12=-160	)					
47) 15th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lk Vert: 12=-160	imum Snow + Parallel: Lumb 5-7=-20, 3-4=-100 ))	er Increase=1.15, Plate Increase=1.15				
48) 16th Unbal.Dead + Min Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (lk	imum Snow + Parallel: Lumb 5-7=-20, 3-4=-57 ))	er Increase=1.15, Plate Increase=1.15				
49) 1st Dead + Roof Live (r Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (lk	unbalanced): Lumber Increas 5-7=-20, 3-4=-90 ))	e=1.15, Plate Increase=1.15				
Vert: 12=-160 50) 2nd Dead + Roof Live ( Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk	(unbalanced): Lumber Increa 5-7=-20, 3-4=-90 ))	se=1.15, Plate Increase=1.15				
Vert: 12=-160 51) 3rd Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (#	Live (unbalanced) + 0.75 Atti 5-7=-20, 3-4=-139	c Floor: Lumber Increase=1.15, Plate Increas	e=1.15			
Vert: 12=-160 52) 4th Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 12=-160	∽ .ive (unbalanced) + 0.75 Attio 5-7=-20, 3-4=-139 ⊳)	c Floor: Lumber Increase=1.15, Plate Increas	e=1.15			

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			3-8-0	
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.16 BC 0.13 WB 0.00 Matrix-MP	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.01         4-7         >999         240           Vert(CT)         -0.01         4-7         >999         180           Horz(CT)         0.00         2         n/a         n/a	90 - = 20%

# LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.

 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=48(LC 15) Max Uplift 4=-5(LC 16), 2=-44(LC 16) Max Grav 4=136(LC 21), 2=215(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-6-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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818 Soundside Road

Edenton, NC 27932



TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS. (size) 5=3-8-0, 2=3-8-0, 6=3-8-0

Max Horz 2=47(LC 13)

Max Uplift 5=-3(LC 16), 2=-42(LC 16), 6=-4(LC 16) Max Grav 5=63(LC 21), 2=134(LC 21), 6=154(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 3-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-8-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
23-7316-A	M04		3	1		62587362
			Ŭ		Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541,			8.530 s Au	a 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:06 2023	Page 2

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LOAD CASE(S) 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-43, 4-5=-83(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 4-5=-90(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 4-5=-139(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-37, 4-5=-133(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-13=-37, 3-13=-42, 4-5=-114(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-137(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-40 Concentrated Loads (lb) Vert: 14=-160 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=58, 2-12=45, 3-12=34, 4-5=16(F=-18), 6-8=-12 Horz: 1-2=-70, 2-12=-57, 3-12=-46, 3-4=7, 5-6=36 Concentrated Loads (lb) Vert: 14=-160 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=29, 2-12=34, 3-12=45, 4-5=27(F=-18), 6-8=-12 Horz: 1-2=-41, 2-12=-46, 3-12=-57, 3-4=-51, 5-6=-23 Concentrated Loads (lb) Vert: 14=-160 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-3, 2-3=-42, 4-5=-60(F=-18), 6-8=-20 Horz: 1-2=-17, 2-3=22, 3-4=-30, 5-6=-33 Concentrated Loads (lb) Vert: 14=-160 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-37, 2-3=-42, 4-5=-60(F=-18), 6-8=-20 Horz: 1-2=17, 2-3=22, 3-4=28, 5-6=25 Concentrated Loads (lb) Vert: 14=-160 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=28, 2-3=13, 4-5=8(F=-18), 6-8=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18 Concentrated Loads (lb) Vert: 14=-160 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=8, 4-5=8(F=-18), 6-8=-12 Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15 Concentrated Loads (lb)

Vert: 14=-160

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20

Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

Continued on page 3

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF
					162587362
23-7316-A	M04	HALF HIP	3	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:06 2023 Page 3

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:06 2023 Page 3 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-\_ETfTZu2Zej47b92iwtygsHF7lfaXchMh4ss7ly8lL7

Concentrated Loads (lb) Vert: 14=-160 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-5, 2-3=-10, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25 Concentrated Loads (lb) Vert: 14=-160 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=32, 2-3=17, 4-5=-1(F=-18), 6-8=-12 Horz: 1-2=-44, 2-3=-29, 3-4=-34, 5-6=23 Concentrated Loads (lb) Vert: 14=-160 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-3=6, 4-5=-12(F=-18), 6-8=-12 Horz: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23 Concentrated Loads (lb) Vert: 14=-160 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12 Concentrated Loads (lb) Vert: 14=-160 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39(F=-18), 6-8=-20 Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12 Concentrated Loads (lb) Vert: 14=-160 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-43, 2-3=-20, 4-5=-50(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-13=-43, 3-13=-49, 4-5=-57(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-88(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-50(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 14=-160 25) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-26, 2-3=-30, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 14=-160 26) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 14=-160 27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

### Continued on page 4

LOAD CASE(S)

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
						162587362
23-7316-A	M04	HALF HIP	3	1	. lob Reference (optional)	
Riverside Roof Truss, LLC.	Danville, Va - 24541.			8.530 s Au	a 2 2023 MiTek Industries. Inc. Fri Dec 15 10:20:06 2023	Page 4

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LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-34, 2-3=-38, 4-5=-124(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 14=-160 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 14=-160 29) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-39, 2-3=-43, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 14=-160 30) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 14=-160 31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-47, 2-3=-51, 4-5=-129(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9 Concentrated Loads (lb) Vert: 14=-160 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-80(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=4, 2-3=-28, 4-5=-46(F=-18), 6-8=-12 Horz: 1-2=-16, 2-3=16, 3-4=-16, 5-6=-16 Concentrated Loads (lb) Vert: 14=-160 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=4, 4-5=-14(F=-18), 6-8=-12 Horz: 1-3=-16, 3-4=16, 5-6=16 Concentrated Loads (lb) Vert: 14=-160 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-27, 4-5=-100(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-5=-57(F=-30), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 37) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-146(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 38) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-57, 4-5=-114(F=-89), 6-8=-20 Concentrated Loads (lb) Vert: 14=-160 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-22, 2-3=-26, 4-5=-137(F=-79), 6-8=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 14=-160

Continued on page 5

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
23-7316-4	MOA		3	1	162	2587362
			Ů		Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,		ID:Bxl2Mw`	8.530 s Al Yau_NHkb	raGCmHloyOvstETfTZu2Zej47b92iwtygsHF7lfaXchMh4ss7ly	ige 5 y8IL7
LOAD CASE(S) 40) 8th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-54,	Snow (unbal.) + 0.75 Attic F 2-3=-58, 4-5=-105(F=-79), 6	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) - -8=-20	⊦ Parallel: I	Lumber In	crease=1.60, Plate Increase=1.60	
Concentrated Loads (II Vert: 14=-160 41) 9th Unbal.Dead + 0.75 Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (I	Snow (unbal.) + 0.75 Attic F 2-3=-18, 4-5=-137(F=-79), 6 , 2-3=-7, 3-4=-3, 5-6=-19 o)	loor + 0.75(0.6 MWFRS Wind (Neg. Int) Right	+ Parallel	: Lumber I	Increase=1.60, Plate Increase=1.60	
Vert: 14=-160 42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11, Concentrated Loads (II	5 Snow (unbal.) + 0.75 Attic 2-3=-50, 4-5=-105(F=-79), 6 , 2-3=-7, 3-4=-3, 5-6=-19	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Righ -8=-20	t) + Paralle	el: Lumber	Increase=1.60, Plate Increase=1.60	
Vert: 14=-160 43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 1 Concentrated Loads (II	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137(F=-79), 6 2-3=1, 3-4=5, 5-6=9 o)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F -8=-20	Parallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60	
44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, Concentrated Loads (lt Vert: 14=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st F -8=-20	Parallel): Lu	umber Inc	rease=1.60, Plate Increase=1.60	
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, : Concentrated Loads (ll Vert: 14=-160	5 Snow (unbal.) + 0.75 Attic 2-3=-26, 4-5=-137(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd -8=-20	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	
46) 14th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, : Concentrated Loads (II	5 Snow (unbal.) + 0.75 Attic 2-3=-58, 4-5=-105(F=-79), 6 2-3=1, 3-4=5, 5-6=9 b)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd -8=-20	Parallel): L	umber Inc	crease=1.60, Plate Increase=1.60	
47) 15th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (II Vert: 14=-160	nimum Snow + Parallel: Luml 4-5=-100(F=-30), 6-8=-20 b)	per Increase=1.15, Plate Increase=1.15				
48) 16th Unbal.Dead + Mir Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (Il Vert: 14=-160	himum Snow + Parallel: Luml 4-5=-57(F=-30), 6-8=-20 b)	per Increase=1.15, Plate Increase=1.15				
49) 1st Dead + Roof Live ( Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (ll Vert: 14=-160	unbalanced): Lumber Increa: 4-5=-50(F=-30), 6-8=-20 o)	se=1.15, Plate Increase=1.15				
50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (Ik Vert: 14=-160	(unbalanced): Lumber Increa 4-5=-90(F=-30), 6-8=-20 b)	ise=1.15, Plate Increase=1.15				
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (II	Live (unbalanced) + 0.75 Atti 4-5=-109(F=-89), 6-8=-20 o)	c Floor: Lumber Increase=1.15, Plate Increase	e=1.15			
52) 4th Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (II Vert: 14=-160	Live (unbalanced) + 0.75 Atti 4-5=-139(F=-89), 6-8=-20 p)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15			

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
			-	-		162587363
23-7316-A	M04SGE	GABLE	1	1		
2010101					Job Reference (optional)	
Riverside Roof Truss, LLC.	Danville. Va - 24541.	•		8.530 s Au	ug 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:07 2023	Page 2

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:07 2023 Page 2 ID:Bxl2MwYau\_NHkbraGCmHIoyOvst-SQ11huugKxrxllkEGeOBD3qUki?CG4qWwkcQfly8IL6

### LOAD CASE(S) 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-43, 4-5=-83, 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 4-5=-90, 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert 1-3=-50 4-5=-139 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-37, 4-5=-133, 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-17=-37, 3-17=-42, 4-5=-114, 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-25, 4-5=-137, 6-13=-20 Concentrated Loads (lb) Vert: 18=-160 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 4-5=-50, 6-13=-40 Concentrated Loads (lb) Vert: 18=-160 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=61, 2-3=52, 4-5=34, 6-13=-12 Horz: 1-2=-73, 2-3=-64, 3-4=7, 5-6=36 Concentrated Loads (lb) Vert: 18=-160 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=47, 2-3=52, 4-5=34, 6-13=-12 Horz: 1-2=-59, 2-3=-64, 3-4=-69, 5-6=-23 Concentrated Loads (lb) Vert: 18=-160 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-3, 2-3=-42, 4-5=-60, 6-13=-20 Horz: 1-2=-17, 2-3=22, 3-4=-48, 5-6=-33 Concentrated Loads (lb) Vert: 18=-160 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-37, 2-3=-42, 4-5=-60, 6-13=-20 Horz: 1-2=17, 2-3=22, 3-4=28, 5-6=25 Concentrated Loads (lb) Vert: 18=-160 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=28, 2-3=13, 4-5=8, 6-13=-12 Horz: 1-2=-40, 2-3=-25, 3-4=-11, 5-6=18 Concentrated Loads (lb) Vert: 18=-160 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=8, 4-5=8, 6-13=-12 Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-15 Concentrated Loads (lb) Vert: 18=-160 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20 Horz: 1-2=-4, 2-3=1, 3-4=31, 5-6=7

## Continued on page 3

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
						162587363
23-7316-A	M04SGE	GABLE	1	1		
					Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:07 2023	Page 3

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:07 2023 Page 3 ID:Bxl2MwYau\_NHkbraGCmHloyOvst-SQ11huugKxrxllkEGeOBD3qUki?CG4qWwkcQfly8IL6

15)	Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=-5, 2-3=-10, 4-5=-39, 6-13=-20 Horr: 1-2=-15, 2-3=-10, 3-4=-4, 5-6=-25
	1012: 1-213, 2-310, 3-44, 3-623 Concentrate Loads (b)
	Vert: 18=-160
16)	Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=32, 2-3=17, 4-5=-1, 6-13=-12
	HUI2: 1-2=-44, 2-3=-29, 3-4=-34, 3-6=23
	Vert 18=-160
17)	Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
	Uniform Loads (plf)
	Vert: 1-2=21, 2-3=6, 4-5=-12, 6-13=-12
	H0/2: 1-2=-33, 2-3=-18, 3-4=-24, 5-6=23
	Vert 18=-160
18)	Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
,	Uniform Loads (plf)
	Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
	Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
	Vert 18-160
19)	Dead + 0.6 MVFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60. Plate Increase=1.60
- /	Uniform Loads (plf)
	Vert: 1-2=-16, 2-3=-21, 4-5=-39, 6-13=-20
	Horz: 1-2=-4, 2-3=1, 3-4=6, 5-6=12
	Vert 18=-160
20)	Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (plf)
	Vert: 1-2=-43, 2-3=-20, 4-5=-50, 6-13=-20
	Voncentrated Loads (Ib)
21)	Veit 10-100 Dead + Snow (Unbal, Left): Lumber Increase=1.15. Plate Increase=1.15
,	Uniform Loads (plf)
	Vert: 1-17=-43, 3-17=-49, 4-5=-57, 6-13=-20
	Concentrated Loads (lb)
22)	Vert: 18=-160 Dead + Snow (Linba) Right): Lumber Increase-1 15 Plate Increase-1 15
22)	Uniform Loads (plf)
	Vert: 1-3=-27, 4-5=-88, 6-13=-20
	Concentrated Loads (lb)
<b>00</b> )	Vert: 18=-160
23)	Dead: Lumoen Increase=0.90, Plate Increase=0.90 Pit. metal=0.90
	Vert: 1-3=-20, 4-5=-50, 6-13=-20
	Concentrated Loads (lb)
~ ~	Vert: 18=-160
24)	Dead + 0.75 Show (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
	Vent 1-2
	Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5
	Concentrated Loads (lb)
05)	Vert: 18=-160
25)	Dead + 0.75 Show (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber increase=1.60, Plate increase=1.60
	Vert: 1-2=-26. 2-3=-30. 4-5=-124. 6-13=-20
	Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19
	Concentrated Loads (lb)
<b>~</b> ~	Vert: 18=-160
26)	Dead + 0.75 Show (bal.) + 0.75 Attic Floor + 0.75(0.6 MWERS wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate
	Uniform Loads (olf)
	Vert: 1-2=-34, 2-3=-38, 4-5=-124, 6-13=-20
	Horz: 1-2=-3, 2-3=1, 3-4=5, 5-6=9
	Concentrated Loads (lb)
271	VEIL 10=-100 Dead ± 0.75 Show (bal.) ± 0.75 Attic Floor ± 0.75(0.6 MWERS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60. Plate
21)	Increase=1.60, Flate

# Continued on page 4

LOAD CASE(S)

Concentrated Loads (lb) Vert: 18=-160

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lob	Truce		0.5	Plu		
מטר	TIUSS	Truss Type	Qty	PIY		162587363
23-7316-A	M04SGE	GABLE	1		1 Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s /	Aug 2 2023 MiTek Industries, Inc. Fri Dec 15	10:20:07 2023 Page 4
			ID:BxI2MwYa	u_NHkbra(	GCmHloyOvst-SQ11huugKxrxllkEGeOBD3qU	ki?CG4qWwkcQfly8lL6
LOAD CASE(S)						
Uniform Loads (plf)	2-338 4-5124 6-132	n				
Horz: 1-2=-34	2-3=1, 3-4=5, 5-6=9	0				
Concentrated Loads (	lb)					
Vert: 18=-160	) /hal ) + 0.75 Attia Flaar + 0.1					
28) Dead + 0.75 Roof Live	e (bal.) + 0.75 Attic Floor + 0.	75(0.6 MWFRS Wind (Neg. Int) L	eff): Lumber Increase:	=1.60, Plat	te increase=1.60	
Vert: 1-2=-47	, 2-3=-51, 4-5=-129, 6-13=-2	D				
Horz: 1-2=-3,	2-3=1, 3-4=23, 5-6=5					
Concentrated Loads (	lb)					
29) Dead + 0.75 Roof Live	, e (bal.) + 0.75 Attic Floor + 0.	75(0.6 MWFRS Wind (Neg. Int) F	ight): Lumber Increas	e=1.60, Pla	ate Increase=1.60	
Uniform Loads (plf)	· · ·	· · · · · · · · · · · · · · · · · · ·				
Vert: 1-2=-39	, 2-3=-43, 4-5=-129, 6-13=-2	0				
Concentrated Loads (	1, 2-3=-7, 3-4=-3, 5-6=-19 lb)					
Vert: 18=-160	)					
30) Dead + 0.75 Roof Live	e (bal.) + 0.75 Attic Floor + 0.	75(0.6 MWFRS Wind (Neg. Int) 1	st Parallel): Lumber In	crease=1.	60, Plate Increase=1.60	
Uniform Loads (plf)		0				
Horz: 1-2=-47	, 2-3=-51, 4-5=-129, 6-13=-20 2-3=1, 3-4=5, 5-6=9	0				
Concentrated Loads (	lb)					
Vert: 18=-160	)					
31) Dead + 0.75 Root Live	e (bal.) + 0.75 Attic Floor + 0.	75(0.6 MWFRS Wind (Neg. Int) 2	nd Parallel): Lumber I	ncrease=1	.60, Plate Increase=1.60	
Vert: 1-2=-47	, 2-3=-51, 4-5=-129, 6-13=-2	0				
Horz: 1-2=-3,	2-3=1, 3-4=5, 5-6=9					
Concentrated Loads (	lb)					
32) Dead + Minimum Sno	, w: Lumber Increase=1.15. Pl	ate Increase=1.15				
Uniform Loads (plf)						
Vert: 1-3=-20	, 4-5=-80, 6-13=-20					
Concentrated Loads (	lb)					
33) Dead + 0.6 C-C Wind	, Min. Down: Lumber Increase	=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=4, 2	2-3=-28, 4-5=-46, 6-13=-12					
Concentrated Loads (	b, 2-3=10, 3-4=-10, 5-0=-10					
Vert: 18=-160	)					
34) Dead + 0.6 C-C Wind	Min. Upward: Lumber Increa	se=1.60, Plate Increase=1.60				
Uniform Loads (plf)	1-514 6-1312					
Horz: 1-3=-16	6, 3-4=16, 5-6=16					
Concentrated Loads (	lb)					
Vert: 18=-160	) www./holoneed\k_Derollek.l.um	har barrage 4.45 Dista barrage	~ 1 15			
Uniform Loads (plf)	ow (balanced) + Parallel: Luff	iber increase=1.15, Plate increas	e=1.15			
Vert: 1-3=-27	, 4-5=-100, 6-13=-20					
Concentrated Loads (	lb)					
Vert: 18=-160	) www.(balanced) + Parallel: Lum	ber Increase-1 15 Plate Increas	o-1 15			
Uniform Loads (plf)	w (balanceu) + Parallel. Luit	iber increase=1.15, Plate increas	e=1.15			
Vert: 1-3=-70	, 4-5=-57, 6-13=-20					
Concentrated Loads (	lb)					
Vert: 18=-160 37) 5th Unbal Dead + 0.75	) 5 Snow (balanced) + 0 75 Att	ic Floor + Parallel: Lumber Increa	se=1 15 Plate Increa	e=1 15		
Uniform Loads (plf)				0-1.10		
Vert: 1-3=-25	, 4-5=-146, 6-13=-20					
Concentrated Loads (	lb)					
38) 6th Unbal.Dead + 0.75	5 Snow (balanced) + 0.75 Att	ic Floor + Parallel: Lumber Increa	se=1.15, Plate Increas	e=1.15		
Uniform Loads (plf)	· · · · / · · · ·		,	-		
Vert: 1-3=-57	, 4-5=-114, 6-13=-20					
Vert: 18160	(d) )					
39) 7th Unbal.Dead + 0.75	, 5 Snow (unbal.) + 0.75 Attic F	Floor + 0.75(0.6 MWFRS Wind (N	eg. Int) Left) + Paralle	: Lumber I	Increase=1.60,	
Plate Increase=1.60						
Uniform Loads (plf)		n				
Horz: 1-2=-22	, 2-3=-20, 4-3=-137, 0-13=-20 2-3=1, 3-4=23. 5-6=5	U				
Concentrated Loads (	lb)					
Vert: 18=-160	)					

Continued on page 5

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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF						
23-7316-A	M04SGF	GABLE	1	1	le le	32587363					
				0.500 - 4.	Job Reference (optional)						
Riverside Roof Truss, LLC,	Danville, va - 24541,	ID:B:	d2MwYau_	NHkbraG	ug 2 2023 Millek industries, inc. Fri Dec 15 10:20:07 2023 P CmHloyOvst-SQ11huugKxrxllkEGeOBD3qUki?CG4qWwkcQf	iy8lL6					
LOAD CASE(S) 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-54, 2-3=-58, 4-5=-105, 6-13=-20 Horz: 1-2=-3, 2-3=1, 3-4=23, 5-6=5 Concentrated Loads (lb) Vert: 18=-160 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60											
Uniform Loads (plf) Vert: 1-2=-14, Horz: 1-2=-11, Concentrated Loads (lt Vert: 18=-160 42) 10th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11,	Uniform Loads (plf) Vert: 1-2=-14, 2-3=-18, 4-5=-137, 6-13=-20 Horz: 1-2=-11, 2-3=-7, 3-4=-3, 5-6=-19 Concentrated Loads (lb) Vert: 18=-160 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-46, 2-3=-50, 4-5=-105, 6-13=-20 Vert: 1-2=-46, 2-3=-50, 4-5=-105, 6-13=-20 Vert: 1-2=-41, 2-3=-7, 3-4=-3, 5-6=-19										
Concentrated Loads (Il Vert: 18=-160 43) 11th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, 7 Concentrated Loads (Il Vert: 18=-160	5) 5 Snow (unbal.) + 0.75 Attic   2-3=-26, 4-5=-137, 6-13=-20 2-3=1, 3-4=5, 5-6=9 5)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st P	arallel): Lu	Imber Incr	rease=1.60, Plate Increase=1.60						
44) 12th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-54, Horz: 1-2=-3, 2 Concentrated Loads (lk Vert: 18=-160	5 Snow (unbal.) + 0.75 Attic   2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 >)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st P	arallel): Lu	Imber Incr	rease=1.60, Plate Increase=1.60						
45) 13th Unbal.Dead + 0.7 Uniform Loads (plf) Vert: 1-2=-22, Horz: 1-2=-3, Concentrated Loads (lk Vert: 18=-160 46) 14th Unbel Dead + 0.7	5 Snow (unbal.) + 0.75 Attic   2-3=-26, 4-5=-137, 6-13=-20 2-3=1, 3-4=5, 5-6=9 5)	Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd F	Parallel): L	umber Inc	rease=1.60, Plate Increase=1.60						
<ul> <li>46) T4th Orbal: Dead + 0.7</li> <li>Uniform Loads (plf)</li> <li>Vert: 1-2=-54, Horz: 1-2=-3, 2</li> <li>Concentrated Loads (II</li> <li>Vert: 18=-160</li> <li>47) 15th Unbal Dead + Mir</li> </ul>	2-3=-58, 4-5=-105, 6-13=-20 2-3=1, 3-4=5, 5-6=9 )) imum Snow + Parallel: Lumb	) ) ) ) per Increase=1 15. Plate Increase=1 15.	raralier): L	umber inc	rease=1.00, Plate increase=1.00						
Uniform Loads (plf) Vert: 1-3=-27, Concentrated Loads (lt Vert: 18=-160	4-5=-100, 6-13=-20 )										
40) Toth Unbal Dead + Min Uniform Loads (plf) Vert: 1-3=-70, Concentrated Loads (lk Vert: 18=-160	4-5=-57, 6-13=-20 ))	per increase=1.15, Plate Increase=1.15									
49) 1st Dead + Roor Live ( Uniform Loads (plf) Vert: 1-3=-60, Concentrated Loads (lt Vert: 18=-160	4-5=-50, 6-13=-20	se=1.15, Plate Increase=1.15									
50) 2nd Dead + Roof Live Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 18=-160	(unbalanced): Lumber Increa 4-5=-90, 6-13=-20 p)	Ise=1.15, Plate Increase=1.15									
51) 3rd Dead + 0.75 Roof I Uniform Loads (plf) Vert: 1-3=-50, Concentrated Loads (lk Vert: 18=-160	Live (unbalanced) + 0.75 Atti 4-5=-109, 6-13=-20 ))	c Floor: Lumber Increase=1.15, Plate Increase	=1.15								
52) 4th Dead + 0.75 Roof L Uniform Loads (plf) Vert: 1-3=-20, Concentrated Loads (lk Vert: 18=-160	Live (unbalanced) + 0.75 Attio 4-5=-139, 6-13=-20 b)	c Floor: Lumber Increase=1.15, Plate Increase	=1.15								

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December 18,2023

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REACTIONS. All bearings 12-0-0. (Ib) - Max Horz 2=-37(LC 1

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SEAL 45844 December 18,2023

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Max Horz 2=-37(LC 14) Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10



- will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1



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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #29 ROOF	
						162587367
23-7316-A	T02G	COMMON GIRDER	1	2		
				<b>U</b>	Job Reference (optional)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Dec 15 10:20:14 2023	Page 2
ID:Bxl2MwYau_NHkbraGCmHloyOvst-Imyh9I_3g5jy4pmaAc0q?YdcyWNpP1nYXJoIPry						

# NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=505, 9=437.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 20-10-0 oc max. starting at 1-11-4 from the left end to 23-11-4 to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 20-9-4 to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

# LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-43, 2-5=-43, 5-8=-43, 9-16=-20
- Concentrated Loads (lb)
  - Vert: 10=-1270(F) 17=-1170(F) 18=-1170(F) 19=-1170(F) 20=-1270(F) 21=-1270(F) 22=-1270(F) 23=-1270(F) 24=-1270(F) 25=-1270(F) 26=-1270(F) 27=-1270(F) 28=-1170(F) 26=-1270(F) 26=-1270(F)

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9-8	8-12	19-2-0		28-7-4			38-4-0			
Plate Offsets (X,Y) [2:0-2-8,	0-1-12], [10:0-2-8,0-1-12]	9-0-4		3-3-4			3-0-12			
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.77 BC 0.89 WB 0.77	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.29 13-15 -0.52 13-15 0 13 12	l/defl >999 >885 n/a	L/d 240 180 p/a	PLATES MT20	<b>GRIP</b> 244/190		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS	1012(01)	0.10 12	n/a	n/a	Weight: 215 lb	FT = 20%		
BCDL         10.0           LUMBER-         TOP CHORD         2x4 SP No.2           BOT CHORD         2x4 SP No.1         WEBS         2x4 SP No.3		і В Т В М	ACING- OP CHORD OT CHORD /EBS	Structural wood except end verti Rigid ceiling dire 1 Row at midpt	sheathing cals. ectly appli	g directly app ied or 10-0-0 7-15, 5-15	lied or 3-1-4 oc purlin: oc bracing. 5, 3-18, 9-12	S,		
REACTIONS. (size) 18=( Max Horz 18= Max Uplift 18=- Max Grav 18=	D-3-8, 12=0-3-8 160(LC 15) 128(LC 16), 12=-128(LC 16) 1744(LC 28), 12=1744(LC 29)					- /	,, -			
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-611/102, 3-5=-2859/256, 5-6=-2123/271, 6-7=-2123/271, 7-9=-2859/256, 9-10=-611/102, 2-18=-457/147, 10-12=-457/147         BOT CHORD       17-18=-186/2715, 15-17=-127/2441, 13-15=-111/2383, 12-13=-175/2620         WEBS       6-15=-66/1294, 7-15=-723/136, 7-13=0/483, 5-15=-722/136, 5-17=0/483, 3-18=-2428/187, 9-12=-2428/186										
<ul> <li>3-18=-2428/187, 9-12=-2428/186</li> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Yult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2): 1-0-0 to 2-10-0, Interior(1) 2-10-0 to 19-2-0, Exterior(2R) 19-2-0 to 23-0-0, Interior(1) 23-0-0 to 39-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>TCLL: ASCE 7-16; Pre=20.0 psf (root LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1-0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>This truss has been designed for a five load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.</li> <li>This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0 psf.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=128, 12=128.</li> <li>This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.</li> </ol></li></ul>										

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TRENCO A Milek Affiliate

818 Soundside Road Edenton, NC 27932

December 18,2023



9-8-	12	<u> </u>		28-7-4			———————————————————————————————————————			
Plate Offsets (X,Y) [2:0-2-8,0	-1-12]	9-0-4		9-3-4			9-0-4			
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.77 BC 0.89 WB 0.76	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.29 12-14 -0.51 12-14 0.13 11	l/defl >999 >883 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 212 lb	F1 = 20%		
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3 REACTIONS. (size) 17=0- Max Horz 17=16 Max Uplift 17=-1 Max Grav 17=17	-3-8, 11=Mechanical 61(LC 15) 28(LC 16), 11=-91(LC 16) 732(LC 28), 11=1673(LC 29)	<b>В</b> Т М	RACING- OP CHORD OT CHORD /EBS	Structural wood except end verti Rigid ceiling diru 1 Row at midpt	sheathing icals. ectly applie	g directly appl ed or 10-0-0 c 5-14, 7-14,	ied or 3-1-9 oc purlins oc bracing. .3-17, 9-11			
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-610/102, 3-5=-2835/254, 5-6=-2097/269, 6-7=-2096/271, 7-9=-2786/259, 9-10=-408/63, 2-17=-456/146, 10-11=-295/75         BOT CHORD       16-17=-218/2689, 14-16=-159/2412, 12-14=-143/2334, 11-12=-210/2518         WEBS       5-16=-0/484, 5-14=-723/136, 6-14=-661273, 7-14=-688/134, 7-12=0/441, 3-17=-2406/185, 9-11=-2535/222										
<ul> <li>3-17=-2406/185, 9-11=-2535/222</li> <li>NOTES- <ol> <li>Uhbalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat.</li> <li>Exp Es Inclosed; MWKFRS (directional) and C-C Exterior(22): 1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-2-0, Exterior(2R) 19-2-0 to 22-11-10, Interior(1) 22-11-10 to 37-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWKFRS (for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60)</li> <li>TCLL: ASCE 7-16; PT=20.0 psf (root LL: Lum DOL=1.15 Plate DOL=1.16); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.</li> <li>This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>Refer to girder(s) for truss to truss connections.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 17-128.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 17-128.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> </ol> </li> </ul>										

December 18,2023

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L				38-0-8							
I				38-0-8							
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	sf) 20.0 11.6/15.0 10.0 0.0 * 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI Code IRC2018/TPI201	0-0 <b>CSI.</b> .15 TC .15 BC ES WB 14 Matrix	0.09 0.06 0.17 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 1 1 25	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 250 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3			BRAC TOP C BOT C WEBS	<b>ING-</b> HORD HORD	Structura except er Rigid cei 6-0-0 oc 1 Row at	al wood nd vertid ling dire bracing t midpt	sheathin cals. ctly appl : 46-47.	g directly ap ied or 10-0-( 13-36	plied or 6-0-0 oc purlins ) oc bracing, Except:	,
REACTIONS.	All bearings 3	8-0-8.									

REACTIONS. All bearings 38-0-8. (lb) - Max Horz 47=161(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 12-13=-112/277, 13-14=-112/277

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-9-10, Exterior(2N) 2-9-10 to 19-2-0, Corner(3R) 19-2-0 to 23-2-0, Exterior(2N) 23-2-0 to 37-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.

9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26.

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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titute (www.tpinst.org) 818 Soundside Road Edenton, NC 27932

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ENGINEERING BY A MITek Affiliate

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REACTIONS. All bearings 14-5-13. (lb) - Max Horz 1=-78(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 2), 8=321(LC 33), 6=321(LC 34)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-3-5, Interior(1) 3-3-5 to 7-3-5, Exterior(2R) 7-3-5 to 10-3-5, Interior(1) 10-3-5 to 14-0-2 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-5-1, Exterior(2R) 4-5-1 to 7-5-1, Interior(1) 7-5-1 to 8-3-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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REACTIONS. (size) 1=5-10-15, 3=5-10-15, 4=5-10-15 Max Horz 1=-29(LC 14) Max Uplift 1=-17(LC 16), 3=-17(LC 16) Max Grav 1=102(LC 2), 3=102(LC 2), 4=187(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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