

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MasterCraft Mattamy-Sequoia-Crafstman-Lot 72 Providence Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I53968715 thru I53968736

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 31,2022

Gilbert, Eric

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.



	<u>12-10-8</u> 12-10-8	2	25-5-8 2-7-0	+	38-4-0	
LOADING (psf) TCLL 20.0 TCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.68 BC 0.89	DEFL. in (loc) Vert(LL) -0.40 12-15 Vert(CT) -0.64 12-15	l/defl L/d >999 360 >722 240	PLATES GRIP MT20 244/190	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.36 Matrix-MS	Horz(CT) 0.09 10 Wind(LL) 0.09 12-15	n/a n/a >999 240	Weight: 244 lb FT = 20%	
LUMBER-			BRACING-			

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

SLIDER Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=99(LC 16) Max Grav 2=1582(LC 1), 10=1582(LC 1)

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

2-4=-2805/142, 4-6=-2506/153, 6-8=-2506/153, 8-10=-2805/142 TOP CHORD

BOT CHORD 2-15=-50/2499, 12-15=0/1736, 10-12=-52/2499

WEBS 6-12=0/864, 8-12=-535/168, 6-15=0/864, 4-15=-535/168

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-0-6, Interior(1) 3-0-6 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * 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.

Structural wood sheathing directly applied or 3-1-15 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MILLIN OR COLOR CONTRACTOR VIIIIIIIIII SEAL 036322 GI mmm August 31,2022



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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-2-0, Interior(1) 3-2-0 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 48, 40, 41, 42, 43, 44, 45, 46, 47, 34, 33, 32, 31, 30, 29, 28, 27.



D BEFORE USE. mponent, not not of the overall ermanent bracing ig the BCSI Building Component 818 Soundside Road Edenton, NC 27932

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	<u>12-7-0</u> 12-7-0	25-2-0 12-7-0				
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. DEFL. TC 0.85 Vert(LL) BC 0.90 Vert(CT) WB 0.36 Horz(CT) Matrix-MS Wind(LL)	in (loc) -0.42 11-14 -0.67 11-14) 0.09 9) 0.09 11-14	l/defl L/d >999 360 >686 240 n/a n/a >999 240	PLATES MT20 Weight: 240 lb	GRIP 244/190 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

SLIDER Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

REACTIONS. (size) 1=Mechanical, 9=0-3-8 Max Horz 1=-103(LC 13) Max Grav 1=1521(LC 1), 9=1570(LC 1)

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

TOP CHORD 1-3=-2720/148, 3-5=-2436/158, 5-7=-2482/152, 7-9=-2780/141

BOT CHORD 1-14=-48/2415, 11-14=0/1710, 9-11=-54/2477

WEBS 5-11=0/869, 7-11=-534/168, 5-14=0/813, 3-14=-502/167

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-8 to 4-1-8, Interior(1) 4-1-8 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * 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.

5) Refer to girder(s) for truss to truss connections.



Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

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BCDL	10.0	Code IRC2015/TPI2014	Matrix-R			Weight: 279 lb	FT = 20%
LUMBER- TOP CHOR BOT CHOR WEBS OTHERS	RD 2x6 SP RD 2x4 SP 2x4 SP 2x4 SP 2x4 SP	No.2 No.2 No.2 No.3		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dii except end verticals. Rigid ceiling directly applied of 1 Row at midpt 1	rectly applied or 6-0-0 or or 10-0-0 oc bracing. 12-36	c purlins,

REACTIONS. All bearings 38-0-8.

Max Horz 47=-88(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 39, 40, 41, 42, 43, 44, 45, 33, 32, 31, 30, 29, 28, 27, 26 except 46=-104(LC 12) Max Grav All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 35, 33, 32,

31, 30, 29, 28, 27, 26

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-4 to 4-3-4, Interior(1) 4-3-4 to 19-2-0, Exterior(2) 19-2-0 to 24-7-1, Interior(1) 24-7-1 to 39-1-10 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) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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

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) 47, 25, 39, 40, 41, 42, 43, 44, 45, 33, 32, 31, 30, 29, 28, 27, 26 except (jt=lb) 46=104.



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818 Soundside Road Edenton, NC 27932



l	12-7-0	16-10-8	20-10-8	25-2-0		38-0-8	
Plate Offsets (X,Y)	[19:0-5-0.0-2-0]. [20:0-5-0.0-2-0]	4-3-0	4-0-0	4-3-0		12-10-0	
LOADING (psf) TCLL 20.0 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 NO Code IRC2015/TPI2014	CSI. TC 0.83 BC 0.54 WB 0.62 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) <i>li</i> -0.47 13-14 > -0.67 13-14 > 0.08 9 0.08 13-14 >	/defl L/d •965 360 •685 240 n/a n/a •999 240	PLATES MT20 Weight: 258 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF 1-4: 2x BOT CHORD 2x6 SF WEBS 2x4 SF 17-18: SLIDER Left 2x REACTIONS. (sizt Max H	P No.2 *Except* 6 SP DSS P DSS P No.3 *Except* 2x4 SP No.2 4 SP No.2 1-11-12, Right 2x4 SP No.2 1 e) 1=Mechanical, 9=0-3-8 lorz 1=-103(LC 13)	-11-12	BRACING- TOP CHOR BOT CHOR WEBS	D Structural D Rigid ceili 1 Row at i	wood sheathing dir ing directly applied o midpt 1	rectly applied or 2-11-6 or 10-0-0 oc bracing. 7-18	oc purlins.
Max G FORCES. (lb) - Max. TOP CHORD 1-2=- 4-31: 7-33: BOT CHORD 1-16: 9-11 WEBS 5-18:	arav 1=1521(LC 1), 9=1570(LC 1) Comp./Max. Ten All forces 250 (lb) or -851/0, 2-29=-2807/113, 29-30=-2762/13 -2499/135, 5-31=-2489/160, 5-32=-252 -2721/142, 33-34=-2831/133, 8-34=-286 -52/2501, 15-16=0/1958, 14-15=0/1958 =-55/2557 =0/1064, 11-18=0/862, 7-11=-537/169, 1	less except when shown. 3, 3-30=-2673/150, 3-4=-2 7/153, 6-32=-2539/128, 6- 50/105, 8-9=-1124/0 , 13-14=0/1958, 12-13=0/ 6-17=-2/805, 5-17=0/1006	2578/120, 7=-2618/113, 1958, 11-12=0/195 5, 3-16=-512/171	58,			
 NOTES- Unbalanced roof live Wind: ASCE 7-10; V gable end zone and zone; cantilever left shown; Lumber DOI This truss has been will fit between the b Refer to girder(s) for This truss is designe standard ANSI/TPL N/A 	e loads have been considered for this de: /ult=115mph Vasd=91mph; TCDL=6.0ps C-C Exterior(2) 0-3-8 to 4-1-8, Interior(1 and right exposed ; end vertical left and =1.60 plate grip DOL=1.60 designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on the pottom chord and any other members. r truss to truss connections. ed in accordance with the 2015 Internation 1.	sign. f; BCDL=6.0psf; h=32ft; C) 4-1-8 to 19-2-0, Exterior(right exposed;C-C for mer e load nonconcurrent with he bottom chord in all area onal Residential Code sect	at. II; Exp B; Enclo (2) 19-2-0 to 24-7- nbers and forces & any other live load as where a rectang ions R502.11.1 an	Dised; MWFRS (er 1, Interior(1) 24-7 & MWFRS for read Js. Jle 3-6-0 tall by 2- nd R802.10.2 and	nvelope) -1 to 39-1-10 ctions -0-0 wide referenced	SEA 0363	
LOAD CASE(S) 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-5=-6 2) Dead + 0.75 Roof Li	alanced): Lumber Increase=1.15, Plate I 60, 5-10=-60, 21-25=-20 ive (balanced): Lumber Increase=1.15, P	ncrease=1.15 late Increase=1.15				A. G. A. G. August	ILBERTITUTE 31,2022



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Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Crafstman-Lot 72 Providence Creek	00740		
MASTERCRAFT	A03	COMMON	7	1	1229	20/19		
Builders firstsource Apex NC	NC 8 530 s May 26 2022 MiTak Industries Inc. Wed Aug 31 12:44:44 202							
			ID:NOHDxMFxGtH	iYullGv8C	p8zfMF4-ffd0WWc9PopqHknyKT3f??XLPsZ8QRFpDZw6QUyiKD	n		
LUAD CASE(S)								
Vert: 1-5=-50, 5	-10=-50, 21-25=-20, 17-18=-3	30						
3) Dead + Uninhabitable At	tic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25						
Uniform Loads (plf)								
Vert: 1-5=-20, 5	-10=-20, 21-25=-40, 17-18=-4	40						
4) Dead + 0.6 C-C Wind (P	os. Internal) Case 1: Lumber	Increase=1.60, Plate Increase=1.60						
Vert 1-29=22 5	-29=12 5-32=22 9-32=12 9	-10=8 21-25=-12						
Horz: 1-29=-34,	5-29=-24, 5-32=34, 9-32=24	, 9-10=20						
5) Dead + 0.6 C-C Wind (P	os. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf)								
Vert: 1-31=12, 5	5-31=22, 5-34=12, 9-34=22, 9	9-10=42, 21-25=-12						
H012: 1-31=-24, 6) Dead + 0.6 C-C Wind (N	0-31=-34, 0-34=24, 9-34=34	-, 9-10=54 : Increase=1.60. Plate Increase=1.60						
Uniform Loads (plf)	eg. memai) Case T. Lumber							
Vert: 1-5=-32, 5	-9=-32, 9-10=-27, 21-25=-20							
Horz: 1-5=12, 5	-9=-12, 9-10=-7							
7) Dead + 0.6 C-C Wind (N	eg. Internal) Case 2: Lumber	Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf)	0_ 22 0 10_ 12 21 25_ 20							
Horz: 1-5=12, 5	-9=-32, 9-10=-13, 21-25=-20 -9=-12 9-10=7							
8) Dead + 0.6 MWFRS Wir	id (Pos. Internal) Left: Lumbe	r Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf)	· · · · ·							
Vert: 1-5=10, 5-	9=8, 9-10=4, 21-25=-12							
Horz: 1-5=-22, 5	5-9=20, 9-10=16							
9) Dead + 0.6 MWFRS Wir	ia (Pos. Internal) Right: Lumb	ber increase=1.60, Plate increase=1.60						
Vert: 1-5=8, 5-9	=10, 9-10=20, 21-25=-12							
Horz: 1-5=-20, 5	5-9=22, 9-10=32							
10) Dead + 0.6 MWFRS W	ind (Neg. Internal) Left: Lumb	per Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf)	0 0 0 40 4 04 05 00							
Vert: 1-5=-7, 5 Horz: 1-513	-9=-8, 9-10=-4, 21-25=-20 5-9=12 9-10=16							
11) Dead + 0.6 MWFRS W	ind (Neg. Internal) Right: Lun	nber Increase=1.60. Plate Increase=1.60						
Uniform Loads (plf)		,						
Vert: 1-5=-8, 5	-9=-7, 9-10=-2, 21-25=-20							
Horz: 1-5=-12,	5-9=13, 9-10=18		1.00					
12) Dead + 0.6 MWFRS W	ind (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase	=1.60					
Vert: 1-30=19	5-30=9 5-9=2 9-10=-3 21-2	25=-12						
Horz: 1-30=-3	1, 5-30=-21, 5-9=14, 9-10=9							
13) Dead + 0.6 MWFRS W	ind (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Increase	e=1.60					
Uniform Loads (plf)								
Vert: 1-5=2, 5-	33=9, 9-33=19, 9-10=14, 21-	25=-12						
14) Dead + 0.6 MWFRS W	ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60. Plate Increase	=1 60					
Uniform Loads (plf)								
Vert: 1-5=9, 5-	9=2, 9-10=-3, 21-25=-12							
Horz: 1-5=-21,	5-9=14, 9-10=9		1.00					
15) Dead + 0.6 MWFRS W	ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase	=1.60					
Vert: 1-5=2 5-	9=9 9-10=5 21-25=-12							
Horz: 1-5=-14,	5-9=21, 9-10=17							
16) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increase	=1.60					
Uniform Loads (plf)								
Vert: 1-30=2, 5	0-30=-7, 5-9=-15, 9-10=-11, 2	21-25=-20						
17) Dead + 0.6 MWERS W	ind (Neg. Internal) 2nd Parall	el: Lumber Increase=1.60. Plate Increas	e=1 60					
Uniform Loads (plf)								
Vert: 1-5=-15,	5-33=-7, 9-33=2, 9-10=6, 21-	-25=-20						
Horz: 1-5=-5, 5-33=13, 9-33=22, 9-10=26								
18) Dead: Lumber Increase	e=0.90, Plate Increase=0.90 I	Plt. metal=0.90						
Uniform Loads (plf)								
19) Dead + 0.75 Roof Live	(bal.) + 0.75 Uninhab. Attic S	Storage + 0.75(0.6 MWFRS Wind (Neg. In	nt) Left): Lumber I	ncrease=	1.60. Plate			
Increase=1.60	, ,	C	, . ,					
Uniform Loads (plf)								
Vert: 1-5=-40,	5-9=-41, 9-10=-38, 21-25=-2	0, 17-18=-30						
Horz: 1-5=-10, 20) Dead + 0.75 Roof Live	5-9=9, 9-10=12 (bal) + 0.75 Uninbab Attic 9	Storage + 0.75(0.6 MW/ERS Wind (No.2.1)	at) Right): Lumbor	Increase	-1.60 Plate			
Increase=1.60	(bai.) + 0.75 Ohininab. Allic 3		ity itiging. Lumber	increase	-1.00, 1 1010			
Uniform Loads (plf)								

Vert: 1-5=-41, 5-9=-40, 9-10=-37, 21-25=-20, 17-18=-30 Horz: 1-5=-9, 5-9=10, 9-10=13

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Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Crafstman-Lot 72 Providence Creek
					153968719
MASTERCRAFT	A03	COMMON	7	1	
					Job Reference (optional)
Builders firstsource, Apex . NC				8.	530 s May 26 2022 MiTek Industries, Inc. Wed Aug 31 12:44:44 2022 Page 3

ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-ffd0WWc9PopqHknyKT3f??XLPsZ8QRFpDZw6QUyiKDn

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-30=-34, 5-30=-41, 5-9=-46, 9-10=-43, 21-25=-20, 17-18=-30

Horz: 1-30=-16, 5-30=-9, 5-9=4, 9-10=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-46, 5-33=-41, 9-33=-34, 9-10=-30, 21-25=-20, 17-18=-30

Horz: 1-5=-4, 5-33=9, 9-33=16, 9-10=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-10=-20, 21-25=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-60, 21-25=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (blf)

Vert: 1-5=-50. 5-10=-20. 21-25=-20. 17-18=-30

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-50, 21-25=-20, 17-18=-30

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LUMBER-

 TOP CHORD
 2x6 SP No.2

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-4-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=72(LC 12)

Max Grav 2=1060(LC 1), 8=1060(LC 1)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-4=-1696/123, 4-5=-1330/85, 5-6=-1330/85, 6-8=-1696/123
- BOT CHORD 2-10=-52/1511, 8-10=-55/1511

WEBS 5-10=0/645, 6-10=-434/134, 4-10=-434/133

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 2-2-6, Interior(1) 2-2-6 to 12-7-12, Exterior(2) 12-7-12 to 16-10-11, Interior(1) 16-10-11 to 26-1-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * 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.



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- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 7) will fit between the bottom chord and any other members.
- 8) WARNING: Required bearing size at joint(s) 1, 7 greater than input bearing size.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1501 lb down at 1-4-4, 1501 lb down at 2-5-8, 1501 lb down at 4-8-8, 1501 lb down at 6-4-0, 1501 lb down at 8-4-0, 1501 lb down at 10-4-0, 1501 lb down at 12-4-0, 1501 lb down at 14-4-0, 1501 lb down at 16-4-0, 1501 lb down at 18-4-0, 1501 lb down at 20-4-0, and 1501 lb down at 22-4-0, and 1502 lb down at 24-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

LOAD CASE(S) Standard

Continued on page 2

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GILB

1111111 August 31,2022

SEAL

036322

Job	Truss	Truss Type	Qty	Ply	Mattamy-Sequoia-Crafstman-Lot 72 Providence Creek	
						153968721
MASTERCRAFT	B01-3PL	COMMON	1	2		
				J	Job Reference (optional)	
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		8.5	30 s Aug 1	1 2022 MiTek Industries, Inc. Wed Aug 31 12:23:48 2022	Page 2

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Aug 31 12:23:48 2022 Page 2 ID:NOHDxMFxGtHiYullGv8Cp8zfMF4-BDS8WVh29qVluzzYa_JCvuWoHZwq8L4xP9geLHyiKXP

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 20=-1501(F) 21=-1501(F) 22=-1501(F) 23=-1501(F) 24=-1501(F) 25=-1501(F) 26=-1501(F) 27=-1501(F) 28=-1501(F) 29=-1501(F) 30=-1501(F) 31=-1501(F) 32=-1501(F) 32=-1501(F)

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Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

16

n/a

except end verticals.

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

Weight: 162 lb

FT = 20%

FORCES	(IL)	Mox	Comp /Max	Ton	All forces	250 (IL)	\ or	loss avaant when abown	
FURGES.	(10) -	- iviax.	Comp./iviax.	1 en	All loices	230 (10	00	less except when shown	

NOTES-

BCLL

BCDL

WEBS

OTHERS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

0.0

2x6 SP No.2

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

All bearings 25-3-8. Max Horz 28=56(LC 12)

10.0

(lb) -

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

Rep Stress Incr

Code IRC2015/TPI2014

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 2-2-6, Interior(1) 2-2-6 to 12-7-12, Exterior(2) 12-7-12 to 16-7-12, Interior(1) 16-7-12 to 26-1-2 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

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

WB

Matrix-R

0.07

- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

YES

Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 27, 20, 19, 18, 17

- 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) 28, 16, 24, 25, 26, 27, 20, 19, 18, 17.



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818 Soundside Road Edenton, NC 27932



REACTIONS. All bearings 13-0-0. (lb) - Max Horz 2=42(LC 1

 $\begin{array}{ll} \text{Max Horz} & \breve{2} = 42(\text{LC 12}) \\ \text{Max Uplift} & \text{All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10} \end{array}$

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

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-6-0, Corner(3) 6-6-0 to 9-6-0, Exterior(2) 9-6-0 to 14-0-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

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

8) * 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.

9) 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.



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6) "//" indicates Released bearing: allow for upward movement at joint(s) 5.



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 	<u>9-2-4</u> 9-2-4		<u>13-(</u> 3-9-)-0 12		18-4-8 5-4-8	
Plate Offsets (X,Y)	- [2:0-0-0,0-1-2], [4:0-0-0,0-1-2], [7:0-3-	0,0-3-4]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/def	l L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.16	7-21 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.37	7-21 >432	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.03	2 n/a	a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.14	6-24 >437	240	Weight: 87 lb	FT = 20%
LUMBER-			BRACING-				

TOP CHORD

BOT CHORD

LUMBER-

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

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8, 4=0-3-0 Max Horz 2=61(LC 12) Max Uplift 2=-30(LC 12), 6=REL, 4=-65(LC 9) Max Grav 2=761(LC 1), 6=162(LC 24), 4=709(LC 1)

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

TOP CHORD 2-3=-1037/174, 3-4=-1041/168

BOT CHORD 2-7=-68/864, 6-7=-68/864, 4-6=-68/864

WEBS 3-7=0/323

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-2-4, Exterior(2) 9-2-4 to 13-5-3, Interior(1) 13-5-3 to 19-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable studs spaced at 2-0-0 oc.

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) 2, 4.

9) "//" indicates Released bearing: allow for upward movement at joint(s) 6.

ORT Vannowww. 11111111111 SEAL 036322 G mmm August 31,2022

Structural wood sheathing directly applied or 4-10-1 oc purlins.

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

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BRACING-

TOP CHORD

BOT CHORD

FORCES. (lb) -	Max. Comp./Max. Ten All forces 250 (lb) or less except when shown
TOP CHORD	2-3=-555/62, 3-4=-457/66, 4-5=-542/89
BOT CHORD	2-6=-81/417
WEBS	4-6=-72/545

5=Mechanical, 2=0-3-8

Max Grav 5=500(LC 1), 2=565(LC 1)

NOTES-

LUMBER-

WEBS

WEDGE Left: 2x4 SP No.3 REACTIONS.

TOP CHORD

BOT CHORD

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-2-4, Exterior(2) 9-2-4 to 12-6-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * 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.

5) Refer to girder(s) for truss to truss connections.

2x4 SP No.1 *Except*

2x4 SP No.3 *Except* 4-5: 2x4 SP No.2

Max Horz 2=88(LC 11) Max Uplift 2=-30(LC 12)

3-4: 2x4 SP No.2

2x4 SP No.2

(size)

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

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				3-8-0	
LOADING TCLL	G (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.18	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-7 >999 360 MT20 244/190	
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.13 WB 0.00	Vert(CT) -0.02 4-7 >999 240 Horz(CT) 0.00 2 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01 4-7 >999 240 Weight: 13 lb FT = 20%	

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=57(LC 12)

Max Uplift 3=-34(LC 12), 2=-17(LC 12) Max Grav 3=93(LC 1), 2=212(LC 1), 4=66(LC 3)

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-7-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.07 0.03	DEFL. Vert(LL) Vert(CT)	in 0.00 -0.00	(loc) 1 1	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/TP	YES 12014	WB Matrix	0.03 x-P	Horz(CT)	-0.00	4	n/a	n/a	Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-8-0. (Ib) - Max Horz 2=59(LC

Max Horz 2=59(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 6

Max Grav All reactions 250 lb or less at joint(s) 4, 2, 5, 6

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

NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-0 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

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.

Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 6.



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	<u>6-0-0</u> 6-0-0				12-0-0 6-0-0		
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.44 BC 0.39 WB 0.10 Matrix-MS	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0 Wind(LL) 0	in (loc) l/defl 0.04 6-12 >999 0.08 6-12 >999 0.01 4 n/a 0.06 6-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-50(LC 13) Max Uplift 2=-95(LC 8), 4=-95(LC 9) Max Grav 2=540(LC 1), 4=540(LC 1)

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

TOP CHORD 2-3=-739/443, 3-4=-739/439

BOT CHORD 2-6=-336/625, 4-6=-336/625 WEBS 3-6=-203/271

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-9-15 oc bracing.

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- gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) 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.



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Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10 except 8=331(LC 1), 9=289(LC 24), 12=331(LC 1), 11=289(LC 23)

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 10-8-12, Exterior(2) 10-8-12 to 13-5-8, Interior(1) 13-5-8 to 20-8-12 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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 12, 11.



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17-5-8 17-5-8 Plate Offsets (X,Y)--[4:0-3-0,Edge] GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) l/defl L/d PLATES TCLL 20.0 Plate Grip DOL 1.15 тс 0.20 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.05 0.00 7 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% BCDL 10.0 Weight: 63 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

REACTIONS. All bearings 17-5-8.

(lb) - Max Horz 1=44(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 12, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10 except 8=338(LC 1), 12=338(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 8-8-12, Exterior(2) 8-8-12 to 11-8-12, Interior(1) 11-8-12 to 16-8-12 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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 12, 10.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

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BRACING-

TOP CHORD

BOT CHORD

	184	DE	•
L.	ואוע	DE	R-

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 13-5-8. (Ib) - Max Horz 1=33(LC 12

Max Horz 1=33(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=293(LC 24), 8=293(LC 23)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 6-8-12, Exterior(2) 6-8-12 to 9-5-8, Interior(1) 9-5-8 to 12-8-12 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) Gable requires continuous bottom chord bearing.

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

5) * 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 8.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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BRACING-

TOP CHORD

BOT CHORD

BCDL

LUMBER-

OTHERS

BOT CHORD

REACTIONS.

10.0

TOP CHORD 2x4 SP No.2

(lb) -

2x4 SP No.2

2x4 SP No.3

All bearings 9-5-8.

Max Horz 1=22(LC 16)

Code IRC2015/TPI2014

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

Max Uplift All uplift 100 lb or less at joint(s) 6, 7 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 4-8-12, Exterior(2) 4-8-12 to 7-8-12, Interior(1) 7-8-12 to 8-8-12 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

Matrix-S

3) Gable requires continuous bottom chord bearing.

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

5) * 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7.



FT = 20%

Weight: 30 lb

Structural wood sheathing directly applied or 9-5-8 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

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2x4 ⋍

2x4 🗢

Structural wood sheathing directly applied or 5-5-8 oc purlins.

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

L					5-5-8						
I					5-5-8						1
Plate Offsets (X,Y)	[2:0-3-0,Edge]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	тс	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2	2014	Matrix	k-P						Weight: 15 lb	FT = 20%
UMBER-					BRACING-						

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

REACTIONS. 1=5-5-8, 3=5-5-8 (size) Max Horz 1=11(LC 16) Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=160(LC 1), 3=160(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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) Gable requires continuous bottom chord bearing.

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

5) * 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.

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



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