

Trenco 818 Soundside Rd Edenton, NC 27932

Re: B0419-1680 Jordan A&B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E12888999 thru E12889031

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



April 5,2019

Gilbert, Eric

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



Job	Truss	Truss Type	Qty	Ply	Jordan A&B
					E12888999
B0419-1680	A1	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc., Fayette	ville, NC 28309			8.130 s M	ar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:18 2019 Page 2
-		ID	:3B2lliU9a	TYR6OtFv	gEVAlyq8tk-CbMFMEI1uupjvyNDnG6elhn9iutU5z8AhX7?aozTkdJ

NOTES-

8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 24, 16, 26, 27, 30, 32, 25, 23, 22, 21, 19 except (jt=lb) 34=136, 31=196, 20=131, 29=102, 33=156, 18=185.

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 31, 20, 29, 30, 32, 33, 23, 22, 21, 19, 18.

11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 safe truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





GI mmm April 5,2019

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILER VETERCING FAGE MILETATION 1997. INVALUED BLI ONE OCC.
Design valid for use only with MITEK® connectors. This design is based only upon parameters and properly incorporate this design into the overall
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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component
ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.









A. GILP April 5,2019

(
Jop	Truss	Truss Type	Qty	Ply	Jordan A&B		F12889002
B0419-1680	A4	ROOF SPECIAL	2	1			L 12009002
Comtech Inc Eavet				8 130 c M	Job Reference (option	al) stries Inc. Fri Apr. 5.14:1	38-22 2019 Page 1
	10 2000		ID:3B2lliU9aT	YR6OtFvg	EVAlyq8tk-5MbmCcM	Ky6J9NZh_06BavXxhJV9	K1f6lb95CjZzTkdF
	6-6-0	13-7-11	21-2-1		29-0-0	<u> </u>	
			5x8 =				Scale = 1:68.4
Ţ		8.00 12					
		\Rightarrow					
		ϕ					
		19)			
	3x4 // ³⁾	.6			2x4		
4		3		- A	5 4x6 📎		
1-0-1	184 S		A /	ľ	R.		
÷					A A		
	3x6 //				æ 2'	1	
	1					\mathbf{A}	
5							
-1				185		8 ⁶ 8	1-9-1
1 1	3	5x8 — <u>4 2x4 =</u> (6 11	- 5x12	2x4 =			
	13 3x4 2x	4 =	10	9	_	4x4 =	
	4.00 12	6x6 =		3x4	. =		
	5-9-12	11-2-0	21-2-1		29-0-0		
Plate Offsets (X Y) [6:	5-9-12 0-3-0 Edge] [11:0-3-0 0-3-8]	<u>5-4-4</u> 12:0-2-5 0-1-8] [12:0-3-12 0-3-6	10-0-1 8] [17 [.] 0-0-0 0-1-12]		7-9-15	I	
	0 0 0,20g0], [110 0 0,0 0 0],					_	
LOADING (psf)	SPACING- 2-1-8 Plate Grip DOI 1 15	CSI. TC 0.71	DEFL. in Vert(LL) -0.09	1 (loc) 9-11	I/defl L/d	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.22	9-11	>999 240		210,000
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76 Matrix-S	Horz(CT) 0.07	7 Q	n/a n/a	Weight: 226 lb	FT - 20%
BODE 10.0		Matrix 0		5	2333 240	Weight: 220 ib	11 - 2070
			BRACING-	20000	purling (2.5.10 max)	avaant and varticals	
1-2: 2x4 S	SP No.1, 6-8: 2x6 SP No.1			(Switche	d from sheeted: Space	$r_{\rm r}$ = 2-0-0).	
BOT CHORD 2x6 SP N	0.1		BOT CHORD	Rigid cei	iling directly applied o	r 10-0-0 oc bracing.	
4-11,4-9:	2x4 SP No.2, 15-16: 2x6 SP N	o.1	WEBS	T-Brace:	2	·9 k4 SPF No.2 - 3-11, 15-	16
				Fasten (2	2X) T and I braces to	narrow edge of web w	ith 10d
				(0.131"x Brace m	3") nails, 6in o.c.,with ust cover 90% of web	3in minimum end dista	nce.
REACTIONS. (lb/size)	13=1466/0-5-8, 7=1589/0-5-	3				5	
Max Horz Max Unlif	z 13=-273(LC 8) ft 13=-83(I C 12) 7=-111(I C 1	3)					
FORCES. (lb) - Max. Co TOP CHORD 1-3=-23	omp./Max. Ten All forces 250 86/467 3-4=-1621/502 4-5=-2	(lb) or less except when shown	-1414/333				
BOT CHORD 12-13=-	257/334, 11-12=-236/2004, 9-	11=-42/1218, 7-9=-225/1694					
WEBS 3-12=-2	1/832, 3-11=-1066/286, 11-15 46/1819_4-16=-383/1254_9-1	=-60/414, 4-15=-137/704, 5-9=-5 5=-303/953	527/365,				
1-12=*2	10, 1010, 7 10-300/1207, 81						
NOTES-	ade have been considered for	this design					
2) Wind: ASCE 7-10; Vult	=130mph (3-second gust) Vas	d=103mph; TCDL=6.0psf; BCDI	L=6.0psf; h=15ft; Cat. II;	Exp C; en	closed;		
MWFRS (envelope) an	d C-C Exterior(2) 0-1-12 to 4-6	-9, Interior(1) 4-6-9 to 13-7-11,	Exterior(2) 13-7-11 to 18	-0-8 zone;	C-C for		
and forces &3) This truss has been de	signed for a 10.0 psf bottom cl	nord live load nonconcurrent with	ש∟=ו.ט n any other live loads.				CAD
4) * This truss has been d	lesigned for a live load of 30.0	osf on the bottom chord in all are	eas with a clearance grea	ater than 6	-0-0	"RTH	
 between the bottom ch Bearing at joint(s) 13 c 	ord and any other members. onsiders parallel to grain value	using ANSI/TPI 1 angle to grain	n formula. Building desig	ner should	d verify	Giver	PN

capacity of bearing surface. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb)

7=111.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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

Vert: 1-4=-64, 4-8=-64, 12-13=-21, 11-12=-21, 7-11=-21, 15-16=-60



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BRACING-TOP CHORD

WEBS

BOT CHORD

T-Brace:

LUMBER-

TOP CHORD	2x4 SP No.1 *Except*
	6-8: 2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except*
	4-11,4-9: 2x4 SP No.2, 14-15: 2x6 SP No.1

REACTIONS. (lb/size) 12=1432/Mechanical, 7=1442/0-5-8 Max Horz 12=-256(LC 8) Max Uplift 12=-79(LC 12), 7=-101(LC 13)

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

- TOP CHORD 3-4=-1608/502, 4-5=-1809/527, 5-7=-1952/438
- BOT CHORD 11-12=-153/1269, 9-11=-46/1150, 7-9=-221/1497
- WEBS 11-14=-80/286, 4-14=-155/606, 4-15=-228/994, 9-15=-144/672, 5-9=-432/286, 3-12=-1646/322

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=101.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 7-13=-20, 14-15=-60



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Structural wood sheathing directly applied, except end verticals.

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 3-12, 14-15

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

Brace must cover 90% of web length.

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19-8-0

	[9.0-2-0,Euge]			
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 0.34 BC 0.41 WB 0.18 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 12-13 n/r 120 Vert(CT) -0.01 12-13 n/r 120 Horz(CT) 0.00 n/a n/a	PLATES GRIP MT20 244/190 Weight: 164 lb FT = 20%
LUMBER-		·	BRACING-	

TOP CHORD

BOT CHORD

WEBS

Plate Offcotc (X V)

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x6 SP No.1
OTHERS	2x4 SP No 3

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 8-18, 7-20, 10-17, 11-16 T-Brace: Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. All bearings 19-8-0.

Max Horz 25=295(LC 12) (lb) -

[0:0.2.0 Edgo]

- Max Uplift All uplift 100 lb or less at joint(s) 18, 21, 23, 15 except 25=-401(LC 10), 20=-110(LC 12), 22=-115(LC 12), 24=-617(LC 12), 16=-114(LC 13)
- Max Grav All reactions 250 lb or less at joint(s) 20, 22, 23, 16 except 25=599(LC
 - 12), 18=327(LC 19), 21=272(LC 19), 24=508(LC 10), 17=276(LC 22), 15=261(LC 20)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 1-25=-352/246, 1-2=-440/332

WEBS 2-24=-324/349

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-7-9, Exterior(2) 4-7-9 to 13-2-3, Corner(3) 13-2-3 to 17-7-0 zone;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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 21, 23, 15 except (jt=lb) 25=401, 20=110, 22=115, 24=617, 16=114.
- 10) Non Standard bearing condition. Review required.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:29 2019 Page 1 ID:3B2lliU9aTYR60tFvgEVAlyq8tk-OiWQg?RxIGB9jejKw4pDi?ksZKX1AzUnCll4TfzTkd8

Scale = 1:73.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	n (loc) l/defl L/c	d PLATES	GRIP	
Plate Offsets (X,Y)	[2:0-0-0,0-0-12], [5:0-3-0,	Edge], [9:0-2-8	3,0-3-0], [10:0-4-0,0-	5-0]				
			6-1-4	7-11-8	6-1-4			
		L	6-1-4	14-0-12	20-2-0	1		

LUADING (pst)	SPACING- 2-0-0	631.	DEFL.	In	(IOC)	i/defi	L/a	PLAIES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL)	-0.13	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT)	-0.25	9-11	>948	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.13	9-11	>999	240	Weight: 216 lb	FT = 20%
LUMBER-			BRACING-						
TOP CHORD 2x6 SP	' No.1		TOP CHORI	D	Structu	ral wood	sheathing dir	ectly applied or 5-4-1 of	oc purlins.
BOT CHORD 2x10 S	P No.1		BOT CHORI	D	Rigid c	eiling dire	ectly applied c	r 10-0-0 oc bracing.	
WEBS 2x6 SP	No.1 *Except*								
3-4,6-7	: 2x4 SP No.3								
WEDGE									
Left: 2x6 SP No.2, Right	nt: 2x4 SP No.3								
REACTIONS. (Ib/size Max H Max G	 2=1074/0-3-8, 8=1019/0-3-8 orz 2=322(LC 9) rav 2=1218(LC 20), 8=1180(LC 20) 								
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-11= WEBS 4-6=-	Comp./Max. Ten All forces 250 (lb) or 1502/27, 3-4=-775/167, 4-5=-150/631, 5 =0/888, 9-11=0/888, 8-9=0/888 1672/465, 3-11=-27/643, 7-9=-34/600	less except when shown. -6=-143/626, 6-7=-783/17	74, 7-8=-1478/19						
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; V	e loads have been considered for this dee (ult=130mph (3-second gust) Vasd=103n	sign. nph; TCDL=6.0psf; BCDL	.=6.0psf; h=15ft; C	at. II; E	Exp C; e	nclosed;	. 4.0		

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 3-7-15, Exterior(2) 3-7-15 to 10-1-0, Corner(3) 10-1-0 to 14-5-13 zone;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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members.

5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9

6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11

7) Attic room checked for L/360 deflection.



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Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:31 2019 Page 1 ID:3B2IliU9aTYR6OtFvgEVAlyq8tk-K5eA5hTBqtRtyyti2VrhnQpC27DVet_4g3nBYYzTkd6

Scale = 1.73.3



Plate Offsets (X,	Y) [2:0-0-0,0-0-8], [5:0-3-	0,Edge], [9:0-2-8,0)-3-0], [10:0-5·	6-0,0-5-8]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	* Rep Stress Inc. Code IRC2015	2-0-0 1.15 1.15 YES /TPI2014	CSI. TC () BC () WB () Matrix-S	0.77 0.45 0.08 S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.25 0.01 0.09	(loc) 9-11 9-11 8 9-11	l/defl >999 >948 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 215 lb	GRIP 244/190 FT = 20%	
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2 3	2x6 SP No.1 2x10 SP No.1 2x6 SP No.1 *Except* 3-4,6-7: 2x4 SP No.3				BRACING- TOP CHOR BOT CHOR	:D :D	Structu Rigid c	ral wood eiling dire	sheathing dire	ectly applied or 5-6-9 o r 10-0-0 oc bracing.	c purlins.	
REACTIONS.	(lb/size) 2=1074/0-3-8, 8= ⁻ Max Horz 2=258(LC 9)	1019/0-3-8										

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

Max Grav 2=1224(LC 20), 8=1184(LC 20)

2-3=-1484/0, 3-4=-774/140, 4-5=-127/630, 5-6=-113/624, 6-7=-783/149, 7-8=-1459/0 TOP CHORD

BOT CHORD 2-11=0/865, 9-11=0/865, 8-9=0/865

4-6=-1672/365, 3-11=0/620, 7-9=-0/574 WEBS

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9

6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11





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Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:32 2019 Page 1 ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-oHCY11TpbBZka6SvcDMwJeMNoXZkNKEEvjWk4_zTkd5

Scale = 1.73.3



Plate Offsets ()	X,Y)	[2:0-0-0,0-0-8], [5:0-3-0,E	Edge], [9:0-2-8,	0-3-0], [10:0	-5-0,0-5-8]							
LOADING (psi TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	f) 0 0 * 0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrix	0.77 0.45 0.08 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.25 0.01 0.09	(loc) 9-11 9-11 8 9-11	l/defl >999 >948 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 215 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP 2x10 S 2x6 SP 3-4,6-7	PNo.1 PNo.1 No.1 *Except* : 2x4 SPNo.3		1		BRACING- TOP CHOF BOT CHOF	RD RD	Structu Rigid c	ıral wood eiling dire	sheathing dire	ectly applied or 5-6-9 c r 10-0-0 oc bracing.	oc purlins.
REACTIONS.	(lb/size Max H	e) 2=1074/0-3-8, 8=101	9/0-3-8									

Max Grav 2=1224(LC 20), 8=1184(LC 20)

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

2-3=-1484/0, 3-4=-774/140, 4-5=-127/630, 5-6=-113/624, 6-7=-783/149, 7-8=-1459/0 TOP CHORD

BOT CHORD 2-11=0/865, 9-11=0/865, 8-9=0/865

4-6=-1672/365, 3-11=0/620, 7-9=-0/574 WEBS

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11





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April 5,2019

818 Soundside Road Edenton, NC 27932



- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





 Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jordan A&B	
					E	12889013
B0419-1680	C4	Common Girder	1	2		
				2	Job Reference (optional)	
Comtech, Inc., Fa	etteville, NC 28309			8.130 s M	ar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:36 2019	Page 2
		ID:3B	2lliU9aTYF	R6OtFvgEV	Alyq8tk-h2R38OWKfQ4A3jmgr2RsUUWCZ8p8J?CppLUyDl	lzTkd1

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 1-5=-20

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TCLL TCDL BCLL BCDL	(psi) 20.0 10.0 0.0 * 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.15 1.15 YES PI2014	TC BC WB Matri	0.05 0.01 0.05 x-S	Vert(LL) Vert(CT) Horz(CT)	-0.00 -0.00 0.00	(IOC) 12 12 12	n/r n/r n/r n/a	120 120 n/a	Weight: 112 lb	244/190 FT = 20%	
LUMBER-	RD 2x4 SP	No.1				BRACING TOP CHO	RD	Structu	ral wood	sheathing di	rectly applied or 6-0-0 c	oc purlins.	

BOT CHORD

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

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.3 OTHERS

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-92(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 10-0-0, Corner(3) 10-0-0 to 14-4-13 zone;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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 12, 2, 19, 20, 21, 22. 17. 16. 15. 14.



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON MICLODED MITER REFERENCE PAGE mit-14/3 at building component, not besign valid for use only with MITeK exconnectors. 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 **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





			10-0-0								20-0-0		
			10-0-0	1		_					10-0-0		
LOADING (psi TCLL 20. TCDL 10. BCLL 0.	f) 0 0 0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.57 0.74 0.17		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.35 0.03	(loc) 4-7 4-7 4	l/defl >999 >666 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.	0	Code IRC2015/TP	2014	Matrix	k-S	\ \	Wind(LL)	0.05	2-7	>999	240	Weight: 91 lb	FT = 20%

LUMBER-

TOP CHORD2x6 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.3

REACTIONS. (lb/size) 4=839/0-5-8, 2=839/0-5-8 Max Horz 2=54(LC 16) Max Uplift 4=-62(LC 13), 2=-62(LC 12)

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

 TOP CHORD
 2-3=-1181/282, 3-4=-1181/282

 BOT CHORD
 2-7=-133/1003, 4-7=-133/1003

BOT CHORD 2-7=-133/1003, 4-7=-' WEBS 3-7=0/453

NOTES

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 4, 2.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road Edenton, NC 27932

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



	21	· · · · · · · · · · · · · · · · · · ·	12-11-3 12-11-3			13- 0-8	8-0 -13		
LOADING (psf) TCLL 20.0 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 0.15 BC 0.10 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 -0.02	(loc) 1 1	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R						Weight: 73 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13.

REACTIONS. All bearings 13-8-0.

(lb) - Max Horz 21=449(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 21, 11, 12, 16, 18, 19 except 13=-342(LC 12), 17=-104(LC 12), 20=-112(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 12, 13, 15, 16, 17, 18, 19, 20 except 21=287(LC 12)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 5-7=-208/268, 7-8=-275/349, 8-9=-300/374
- BOT CHORD 20-21=-556/445, 19-20=-544/435, 18-19=-548/437, 17-18=-547/437, 16-17=-547/437,
 - 15-16=-548/437, 13-15=-543/426, 9-14=-326/417, 13-14=-326/417

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-8-0, Exterior(2) 3-8-0 to 13-8-0 zone;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 studie 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

- Bearing at joint(s) 21, 11, 13, 15, 16, 17, 18, 19, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 11, 12, 16, 18, 19 except (jt=lb) 13=342, 17=104, 20=112.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 12, 13, 15, 16, 17, 18, 19, 20.



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6-10-0

7

8

2-1-1

9-4-4

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Apr 5 14:38:42 2019 Page 1 ID: 3B21 liU9aTYR6OtFvgEVAlyq8tk-VCoKOSb4EGqJneDqBJYGjlm6cZ?6jmciCGxGQPzTkcx and a strength of the strength13-8-0



6-10-0

6-10-0

Scale = 1.64.9



-0<u>-10-8</u> 0-10-8

	<u>6-10-0</u> 6-10-0	<u>12-11-3</u> 6-1-3	13-8-0 0-8-13		
Plate Offsets (X,Y) [2:0-1-4,0-1-12], [5:0-2-14,0-1-8]				 	

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 0.69 BC 0.32 WB 0.47 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.07 11-12 >999 360 Vert(CT) -0.17 11-12 >954 240 Horz(CT) 0.04 9 n/a n/a Wind(LL) 0.07 11 >999 240	PLATES GRIP MT20 244/190 Weight: 81 lb FT = 20%
LUMBER-			BRACING-	

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.1 TOP CHORD BOT CHORD 2x4 SP No.1 2x4 SP No.3 WEBS

Structural wood sheathing directly applied or 4-3-3 oc purlins, except end verticals. Rigid ceiling directly applied or 7-11-7 oc bracing.

REACTIONS. (lb/size) 12=593/0-5-8, 9=539/Mechanical Max Horz 12=310(LC 12) Max Uplift 9=-210(LC 12)

Max Grav 12=593(LC 1), 9=597(LC 19)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-12=-668/356, 2-3=-1629/571, 3-5=-1740/715
- BOT CHORD 11-12=-568/617, 10-11=-616/1236, 5-10=-870/429
- WEBS 2-11=-319/1229, 3-11=-410/254, 5-11=-374/834

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-8-0 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=210.



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only design parameters and READ NOTES ON TIPS ON MICLODED MITER REFERENCE PAGE mit-14/3 at building component, not besign valid for use only with MITeK exconnectors. 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 **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BRACING-

TOP CHORD

BOT CHORD

WEBS

FORCES	(lb) - Max	Comp /Max	Ten	- All forces	250 (lb) or less	excent	when	showr

(lb/size) 7=532/Mechanical, 9=587/0-5-8

Max Grav 7=792(LC 19), 9=612(LC 19)

TOP CHORD 2-3=-526/0, 2-9=-573/32

2x4 SP No.1

2x4 SP No.1

2x4 SP No.3

BOT CHORD 8-9=-427/432, 7-8=-194/444

WEBS 3-8=0/303, 3-7=-613/270, 2-8=-3/390

Max Horz 9=307(LC 12) Max Uplift 7=-203(LC 12)

NOTES-

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone;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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=203.
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 4-7, 3-7

Rigid ceiling directly applied or 9-6-15 oc bracing.

Brace must cover 90% of web length.

except end verticals.

T-Brace:

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1 1010 0110	0010 (71, 17)			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.05 11-12 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.12 11-12 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.03 8 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 12-13 >999 240 Weight: 94 lb FT = 20%
)_			BRACING.

LUMBER-		BRACING-			
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheat	hing directly applied or 6-0-0 oc purlins,	
BOT CHORD	2x4 SP No.1 *Except*		except end verticals.		
	13-15,9-11: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly a	pplied or 6-0-0 oc bracing.	
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt	5-8	
	5-8: 2x4 SP No.2, 2-16: 2x6 SP No.1		T-Brace:	2x4 SPF No.2 - 3-10	
			Fasten (2X) T and I b	races to narrow edge of web with 10d	
			(0.131"x3") nails, 6in d	o.c.,with 3in minimum end distance.	
			Brace must cover 90%	6 of web length.	

REACTIONS. (lb/size) 8=528/Mechanical, 16=589/0-5-8 Max Horz 16=306(LC 12) Max Uplift 8=-203(LC 12) Max Grav 8=585(LC 19), 16=589(LC 1)

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

TOP CHORD 2-3=-524/0, 8-10=-655/291, 14-16=-516/117, 2-14=-488/120

BOT CHORD 15-16=-347/151, 13-14=0/528, 12-13=-259/517, 11-12=-259/517, 10-11=-273/517 WEBS 3-10=-651/333

NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=203.

6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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BCDL 10	.0	Code IRC2015/1P12014	Matrix-S	Wind(LL) 0.0	12-13	>999 240	Weight: 94 lb $FI = 20\%$		
LUMBER-				BRACING-					
TOP CHORD	2x4 SP	No.1		TOP CHORD	Structu	ral wood sheathing	g directly applied or 6-0-0 oc purlins,		
BOT CHORD	2x4 SP	No.1 *Except*			except	end verticals.			
	13-15,9	-11: 2x4 SP No.3		BOT CHORD	Rigid ce	eiling directly appli	ed or 10-0-0 oc bracing, Except:		
WEBS	2x4 SP	No.3 *Except*			6-0-0 o	c bracing: 15-16,1	3-15.		
	5-8: 2x4	SP No.2, 2-16: 2x6 SP No.1		WEBS	1 Row a	at midpt	5-8		
					T-Brace	e:	2x4 SPF No.2 - 3-10		
					Fasten (2X) T and I braces to narrow edge of web with 10d				
					(0.131")	x3") nails. 6in o.c.	with 3in minimum end distance.		

Brace must cover 90% of web length.

REACTIONS. (Ib/size) 16=605/0-5-8, 7=515/0-3-8 Max Horz 16=306(LC 12) Max Uplift 7=-195(LC 12) Max Grav 16=605(LC 1), 7=570(LC 19)

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

TOP CHORD 2-3=-554/14, 8-10=-722/317, 14-16=-531/124, 2-14=-508/130

BOT CHORD 15-16=-341/136, 13-14=0/563, 12-13=-271/547, 11-12=-271/547, 10-11=-229/402

WEBS 3-10=-683/345, 3-12=-30/277

NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone;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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=195.

5) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

SEAL 036322 April 5,2019

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13-6-0 13-6-0

	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	l /d	PLATES	GRIP
	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.00	2	n/r	120	MT20	244/190
DL 1	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	0.00	2	n/r	120	-	
LL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	11	n/a	n/a		
CDL 1	10.0	Code IRC2015/TP	12014	Matri	x-R						Weight: 121 lb	FT = 20%

LUMBER-		BRACING-					
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-10-11 oc purlins,				
BOT CHORD	2x4 SP No.1		except end verticals.				
WEBS	2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.					
	10-11: 2x4 SP No.2	WEBS	T-Brace: 2x4 SPF No.2 - 10-11, 9-12, 8-13				
OTHERS	2x4 SP No.3		Fasten (2X) T and I braces to narrow edge of web with 10d				
			(0.131"x3") nails, 6in o.c., with 3in minimum end distance.				
			Brace must cover 90% of web length.				

REACTIONS. All bearings 13-6-0.

- (lb) Max Horz 18=439(LC 12)
 - Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 13, 14 except 18=-329(LC 10), 15=-117(LC 12), 17=-1041(LC 12)
 - Max Grav All reactions 250 lb or less at joint(s) 11, 15, 16 except 18=1078(LC 12), 12=276(LC 19), 13=265(LC 19), 14=271(LC 19), 17=444(LC 10)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-18=-670/535, 2-3=-727/582, 3-4=-385/317, 4-5=-339/278, 5-7=-260/214 WEBS 3-17=-521/602

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-0, Exterior(2) 3-6-0 to 13-4-4 zone;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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 13, 14 except (jt=lb) 18=329, 15=117, 17=1041.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Scale = 1:57.3



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	0-3-0 0-3-0		<u> </u>	I		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.52 BC 0.27 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 2-4 >999 360 Vert(CT) -0.06 2-4 >999 240 Horz(CT) 0.00 4 n/a n/a Wind(LL) 0.01 2-4 >999 240	PLATES GRIP MT20 244/190 Weight: 26 lb FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.3

REACTIONS. (lb/size) 4=326/0-1-8, 2=376/0-3-0 Max Horz 2=57(LC 4) Max Uplift 4=-32(LC 8), 2=-45(LC 4)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed;

- MWFRS (envelope); 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members.

4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down at 2-0-12, and 117
- Ib down and 23 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-60, 2-4=-20 Concentrated Loads (lb)
 - Vert: 5=-68(B) 6=-117(B)



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

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

except end verticals.

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0-3-0 0-3-0			<u>6-0-0</u> 5-9-0						
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 0.45 BC 0.32 WB 0.00 Matrix-P	DEFL. ir Vert(LL) -0.01 Vert(CT) -0.03 Horz(CT) 0.00 Wind(LL) 0.00	n (loc) 2-4 2-4 4 4 2-4 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 20%	

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.3

BRACING-TOP CHORD

 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 Directly applied or 40.0 occupations

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

REACTIONS. (lb/size) 4=223/0-1-8, 2=294/0-3-0 Max Horz 2=57(LC 8) Max Uplift 4=-30(LC 12), 2=-57(LC 8)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-1 zone;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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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	0-3-0 0-3-0			8-0-0						
Plate Offsets (X,Y)	[2:0-4-4,Edge]	T	1						T	
LOADING (psf)	SPACING- 2	-0-0 CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15 TC	0.89	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC	0.58	Vert(CT)	-0.09	2-4	>993	240		
BCLL 0.0 *	Rep Stress Incr	YES WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20	014 Matri	x-P	Wind(LL)	0.10	2-4	>908	240	Weight: 35 lb	FT = 20%
LUMBER-	·	·		BRACING						

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 2x6 SP No.1 WEBS

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. (lb/size) 2=337/0-3-0, 4=305/0-1-8 Max Horz 2=69(LC 8)

Max Uplift 2=-129(LC 8), 4=-125(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 7-9-4 zone; porch left 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 4=125.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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0 -	10		0 + 0		
0-4	I-8 ¹		8-0-0		1
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.18 BC 0.04 WB 0.11 Matrix-P	DEFL. ii Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) 0.00	n (loc) l/defl L/d) 1 n/r 120) 1 n/r 120) 1 n/a n/a	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x6 S	P No.1 P No.1		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	ectly applied or 6-0-0 oc purlins,

BOT CHORD

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

TOP CHORD	2X4 3P NO. 1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1
OTHERS	2x4 SP No.3

REACTIONS. All bearings 7-10-8.

(lb) - Max Horz 2=98(LC 8)

- Max Uplift All uplift 100 lb or less at joint(s) 5, 2 except 7=-132(LC 12)
- Max Grav All reactions 250 lb or less at joint(s) 5, 2, 6 except 7=372(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.

WEBS 3-7=-290/372

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 4-0-0, Exterior(2) 4-0-0 to 7-9-4 zone; porch left 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) 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
- 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) 5, 2 except (jt=lb) 7=132.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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```
REACTIONS. (lb/size) 2=496/0-3-0, 5=465/0-1-8
Max Horz 2=101(LC 8)
Max Uplift 2=-57(LC 8), 5=-62(LC 12)
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FORCES.	(lb) -	Max.	Comp./Max.	Ten.	- ,	All forces	250	(lb)	or	less	except	when	shown
		2 2	705/047										

```
        TOP CHORD
        2-3=-765/247

        BOT CHORD
        2-5=-325/696
```

```
WEBS 3-5=-686/369
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NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 11-9-4 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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0-4-8 0-4-8		1	12-4-8 12-0-0		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.11 BC 0.05 WB 0.08 Matrix-S	DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00	n (loc) l/defl L/d) 1 n/r 120) 1 n/r 120) 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 61 lb FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x6 S WEBS 2x6 S OTHERS 2x4 S	P No.1 P No.1 P No.1 P No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, r 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-8.

(lb) - Max Horz 2=144(LC 8)

- Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=-102(LC 12)
- Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=326(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. WEBS 3-12=-213/254

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 4-0-0, Exterior(2) 4-0-0 to 11-9-4 zone; 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 2, 9, 10, 11 except (jt=lb) 12=102.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Plate Off	sets (X,Y)	[3:0-0-0,0-0-0], [4:0-0-0,0-0-0)]									
LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL 1	1.15	TC	0.38	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	/ES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	14	Matrix	k-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%
						1						

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.3

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

REACTIONS. (lb/size) 2=256/0-3-0, 4=181/0-1-8 Max Horz 2=55(LC 8) Max Uplift 2=-51(LC 8), 4=-27(LC 12)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 4-9-15 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 4 considers an allel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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Plate Offsets (X,Y	- [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0	0.03 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0	0.05 2-4	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0	0.00 2	****	240	Weight: 18 lb	FT = 20%
							1	

BRACING-

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=256/0-3-0, 4=181/0-1-8 Max Horz 2=55(LC 8) Max Uplift 2=-51(LC 8), 4=-27(LC 12)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-15 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 4 considers an allel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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		<u>3-3-7</u> <u>3-3-7</u>		5-0-0 1-8-9	-
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.11 BC 0.39 WB 0.05 Matrix-P	DEFL. in (loc) Vert(LL) -0.04 2-6 Vert(CT) -0.09 2-6 Horz(CT) 0.03 4 Wind(LL) 0.05 2-6	I/defl L/d PLATES >999 360 MT20 >651 240 n/a n/a >999 240 Weight: 18 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.3 WEBS

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins, except 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 4=50/Mechanical, 2=259/0-3-0, 5=137/Mechanical Max Horz 2=36(LC 8) Max Uplift 4=-17(LC 8), 2=-57(LC 8), 5=-3(LC 8)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 9) Provide adequate drainage to prevent water ponding.
 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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	<u>1-6-14</u> 1-6-14					
Plate Offsets (X,Y)	[4:0-0-0,0-1-12], [4:0-4-0,0-1-12], [6:0-0-0	,0-1-12]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.14 BC 0.30 WB 0.04 Matrix-P	DEFL. in Vert(LL) -0.03 Vert(CT) -0.06 Horz(CT) 0.03 Wind(LL) 0.04	(loc) l/defl 6-7 >999 6-7 >860 4 n/a 6-7 >999	L/d PLATES 360 MT20 240 n/a 240 Weight: 17	GRIP 244/190 Ib FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	No.1 No.1 No.3		BRACING- TOP CHORD BOT CHORD	Structural wood s except end vertica Rigid ceiling direct	sheathing directly applied or 5- als, and 2-0-0 oc purlins: 3-4. ctly applied or 6-0-0 oc bracing	-0-0 oc purlins, g.

REACTIONS. (lb/size) 4=95/Mechanical, 6=88/Mechanical, 2=251/0-3-0

Max Horz 2=20(LC 8) Max Uplift 4=-33(LC 8), 2=-59(LC 8)

Max Grav 4=95(LC 0), 2=33(LC 0)Max Grav 4=95(LC 1), 6=116(LC 3), 2=251(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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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