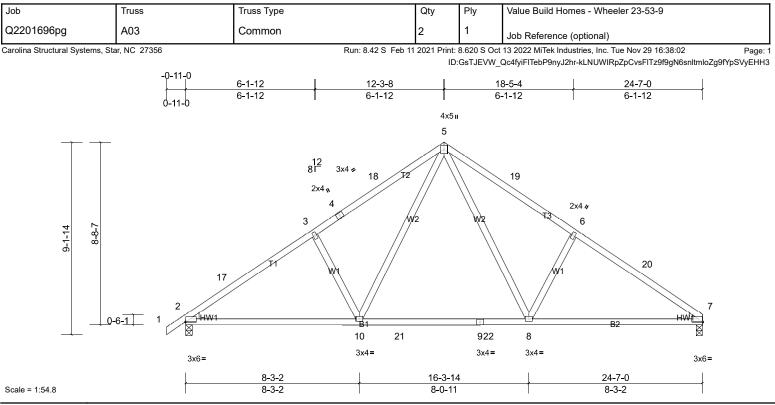


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.21	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		0.64	Vert(CT)	-0.29		>999	240	-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)		12-15	>999	240	Weight: 126 lb	FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS WEDGE BRACING TOP CHORE BOT CHORE REACTIONS	2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood she Rigid ceiling directly (lb/size) 2=1038/0	eathing directly applied y applied. )-3-8, (min. 0-1-8), )-3-8, (min. 0-1-8) C 11)	bearing plat 2 and 30 lb 6) This truss is Internationa R802.10.2 a 7) This truss d structural we		ordance w de sections andard AN at a minim applied d	30 lb uplift at ith the 2015 s R502.11.1 ISI/TPI 1. um of 7/16" irectly to the	and top					
FORCES		lax. Ten All forces 25	60									
TOP CHORD	(lb) or less except w											
TOP CHORD	2-19=-1407/60, 3-1 3-4=-1247/114, 4-20											
	5-20=-1144/152, 5-2	,										
	6-21=-1147/132, 6-											
	7-22=-1318/95, 8-2	,										
BOT CHORD	2-12=-58/1169, 12-2	23=0/767, 11-23=0/767	7,									
	11-24=0/767, 10-24	=0/767, 8-10=0/1096										
WEBS		2=-30/587, 5-10=-30/5	87,									
	7-10=-340/140											
NOTES												
	ed roof live loads have	e been considered for t	this									
design.												
	CE 7-10; Vult=120mpl mph; TCDL=6.0psf; B0											
	=25ft; eave=4ft; Cat. II											
	(directional) and C-C E											
		-8, Exterior (2) 12-3-8 to	0									
		-6-0 zone; cantilever le										
		l left and right exposed										
	mbers and forces & M		,0-									

- 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.
  \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



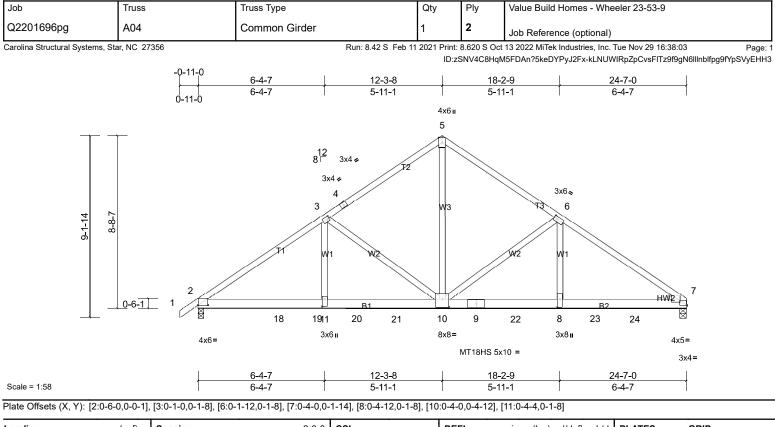
# Plate Offsets (X, Y): [2:Edge,0-0-3], [7:Edge,0-0-3]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.39	Vert(LL)	-0.21	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.29	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.03	8-13	>999	240	Weight: 124 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood she Rigid ceiling directly (lb/size) 2=1039/0 7=982/0- Max Horiz 2=147 (Lf Max Uplift 2=-31 (LC (lb) - Max. Comp./M (lb) or less except w 2-17=-1408/60, 3-1 3-4=-1249/115, 4-11 5-18=-1145/152, 5- 6-19=-1252/139, 6- 7-20=-1411/80 2-10=-74/1164, 10-2 9-22=0/762, 8-22=0		<ul> <li>bearing platand 31 lb up</li> <li>6) This truss is Internationa R802.10.2 a</li> <li>7) This truss destructural we chord and 1 the bottom c</li> <li>LOAD CASE(S)</li> </ul>	designed in a Residential C nd referenced sign requires od sheathing /2" gypsum sh hord.	vithstanding 7 ccordance w code sections standard AN that a minim be applied d	' Ib uplift at j ith the 2015 s R502.11.1 ISI/TPI 1. um of 7/16" irectly to the	oint 7 and top					
NOTES												
,	ed roof live loads have	e been considered for th	his									
design.	CE 7-10; Vult=120mpl	h (3 second quist)										
	nph; TCDL=6.0psf; B(											
	=25ft; eave=4ft; Cat. II											
	(directional) and C-C											

B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 12-3-8, Exterior (2) 12-3-8 to 15-3-8, Interior (1) 15-3-8 to 24-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

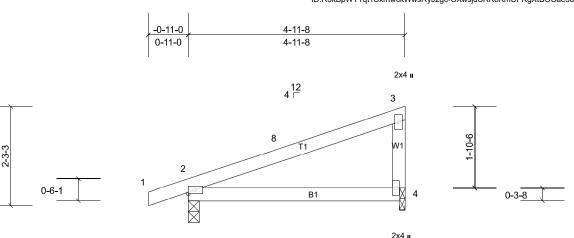


Loading TCLL (roof) TCDL	(psf) 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL		2-0-0 1.00 1.15	BC	0.84 0.97	DEFL Vert(LL) Vert(CT)	in -0.15 -0.30		l/defl >999 >997	L/d 360 240	PLATES MT20 MT18HS	<b>GRIP</b> 244/190 244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	IRC20	NO 15/TPI2014	WB Matrix-MS	0.79	Horz(CT) Wind(LL)	0.06 -0.06	7 10-11	n/a >999	n/a 240	Weight: 297 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP No.3 *Excep Right: 2x4 SP No.3 Structural wood she		6) 7)	This truss ha chord live loc * This truss l on the bottoo 3-06-00 tall chord and au This truss is International	e MT20 plates un as been designed as been designed nas been designe m chord in all are by 2-00-00 wide v ny other member designed in acco Residential Cod nd referenced sta	for a 10. t with any of for a liv as where vill fit betw s. ordance w e section:	0 psf bottom other live loa re load of 20. a rectangle ween the bot with the 2015 s R502.11.1	ads. .0psf tom					
REACTIONS	7=6977/0 Max Horiz 2=147 (Le	-3-8, (min. 0-3-3), -4-0, (min. 0-3-15) C 7) LC 14), 7=7748 (LC 15)	9)	Hanger(s) or provided suf down and 29	r other connection ficient to support 9 lb up at 4-0-12, n at 8-0-0, 1054	n device(s concentr 1054 lb	s) shall be ated load(s) 3 down at 6-0-	-0,					
FORCES	,	lax. Ten All forces 250		down at 12-	0-0, 1054 lb dow 054 lb down at 1	n at 14-0	-0, 1054 lb d	lown					
TOP CHORD		6537/0, 4-5=-6462/0,			1235 lb down at bottom chord. 1								
BOT CHORD	2-18=0/7412, 18-19 11-20=0/7412, 20-2 9-10=0/8192, 9-22=	=0/7412, 11-19=0/7412, 1=0/7412, 10-21=0/7412 0/8192, 8-22=0/8192, =0/8192, 7-24=0/8192		AD CASE(S)	of Live (balanced								
WEBS		-3570/0, 6-8=0/3606,		Uniform Lo Vert: 1-5	ads (lb/ft) =-60, 5-7=-60, 12	-15=-20							
nails as fo Top chord oc. Bottom ch	ollows: Is connected as follow nords connected as fo	ether with 10d (0.131"x3 s: 2x4 - 1 row at 0-9-0 llows: 2x6 - 2 rows	")	Vert: 9=-	ed Loads (lb) 950, 10=-950, 8= 20=-950, 21=-95 5								
Web conr 2) All loads a except if r CASE(S) provided t	I at 0-9-0 oc. nected as follows: 2x4 are considered equally noted as front (F) or ba section. Ply to ply con to distribute only loads nerwise indicated.	/ applied to all plies, ack (B) face in the LOAD inections have been	)										
		e been considered for th	is										
4) Wind: AS	CE 7-10; Vult=120mpl	n (3-second gust)											

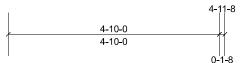
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	B01	Monopitch	14	1	Job Reference (optional)

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#### Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.32	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	4-7	>999	240	Weight: 19 lb	FT = 20%
		•		•							•	-

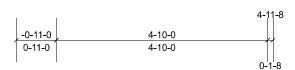
- L
- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. 2=253/0-3-0, (min. 0-1-8), **REACTIONS** (lb/size) 4=187/0-1-8, (min. 0-1-8) Max Horiz 2=51 (LC 12) Max Uplift 2=-59 (LC 12), 4=-48 (LC 12) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

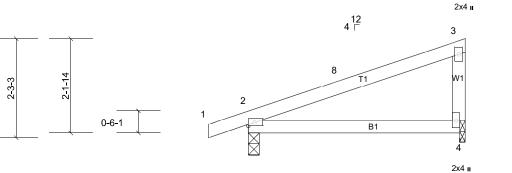
NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 4-9-12 zone; porch 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 3-06-00 tall by 2-00-00 wide will fit 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.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 59 lb uplift at joint 2 and 48 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" 8) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	B02	Monopitch	3	1	Job Reference (optional)

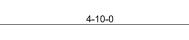
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Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	4-7	>999	240	Weight: 19 lb	FT = 20%

## LUMBER

2x4 SP No.3
2x4 SP No.2
2x4 SP No.2

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS	(lb/size)	2=253/0-3-0, (min. 0-1-8),
		4=187/0-1-8, (min. 0-1-8)
	Max Horiz	2=51 (LC 12)
	Max Uplift	2=-59 (LC 12), 4=-48 (LC 12)
FORCES	(lb) - Max	. Comp./Max. Ten All forces 2

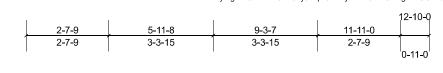
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

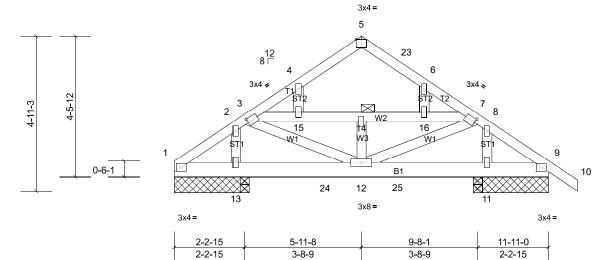
### NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 4-9-12 zone; porch 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2 and 48 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	C01	Common Girder	1	2	Job Reference (optional)

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Scale = 1:36.7

Plate Offsets (X, Y): [3:0-0-12,0-1-8], [5:0-2-0,Edge], [7:0-0-12,0-1-8]

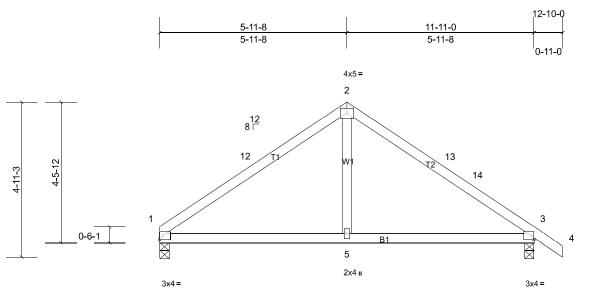
		-									
Loading (psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	12	>999	240		
BCLL 0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code I	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.00	12	>999	240	Weight: 161 lb	FT = 20%
6-0-0 oc purlins. BOT CHORD Rigid ceiling directl bracing. JOINTS 1 Brace at Jt(s): 14 <b>REACTIONS</b> All bearings 2-4-11. (lb) - Max Horiz 1=-73 (Li Max Uplift All uplift 1, 9, 17, Max Grav All reacti (s) 1, 9, - 1), 13=34	C 6), 17=-73 (LC 6) 100 (lb) or less at joint(s) 20 ons 250 (lb) or less at join 17, 20 except 11=327 (LC 43 (LC 1) 4ax. Ten All forces 250 when shown. 269/49 ether with 10d (0.131"x3", vs: 2x4 - 1 row at 0-9-0 vs: 2x6 - 2 rows 4 - 1 row at 0-9-0 oc. y applied to all plies, ack (B) face in the LOAD nnections have been s noted as (F) or (B), re been considered for this h (3-second gust) CDL=6.0psf; h=25ft; l; Exp B; Enclosed; r left and right exposed ;	only. For sti see Standar, or consult qu () All plates are 7) Gable studs 8) This truss ha chord live los 9) * This truss lo on the botton 3-06-00 tall li chord and ar 10) Provide mec bearing plate (s) 1, 9, 1, 9, 11) This truss is International (s) 1, 9, 1, 9, 12) Hanger(s) or provided suff down and 16 at 4-9-10, an 7-1-6 on bot connection co LOAD CASE(S) 1) Dead + Roo Plate Increa Uniform Lo- Vert: 12=	designed in accorda Residential Code se nd referenced stand. other connection de icient to support cor i lb up at 7-1-6 on to ad 10 lb down at 5- com chord. The desi evice(s) is the response Standard of Live (balanced): Li ase=1.00	(norm d Deta gner az ttherwi r a 10.0 th any or a liv where fit betw (by oth hading 1 ance w ections and AN evice(s noentra op cho spicon sign/sel onsibili umber	al to the face ils as applica is per ANSI/TF se indicated. 0 psf bottom other live loa re load of 20.0 a rectangle veen the botto ers) of truss t 100 lb uplift at ith the 2015 is R502.11.1 a ISJ/TPI 1. is) shall be ated load(s) 4 rd, and 9 lb d ind 9 lb down ection of suci ty of others.	), ble, PI 1. Opsf om to t joint nd 0 lb own at h					

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	C02	Common	2	1	Job Reference (optional)

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Page: 1





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.37	Vert(LL)	-0.03	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.06	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.02	5-8	>999	240	Weight: 47 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER

Scale = 1:36.7

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

Carolina Structural Systems, Star, NC 27356

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. 4 475/0 0 0 ( : 0 4 0)

REACTIONS	(lb/size) 1=475/0-3-8, (min. 0-1-8),
	3=534/0-3-8, (min. 0-1-8)
	Max Horiz 1=-75 (LC 10)
	Max Uplift 1=-2 (LC 12), 3=-28 (LC 12)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.
TOP CHORD	1-12=-569/54, 2-12=-476/75, 2-13=-478/71,
	13-14=-479/51, 3-14=-570/46
BOT CHORD	1-5=-68/398, 3-5=0/398
WEBS	2-5=0/267

NOTES

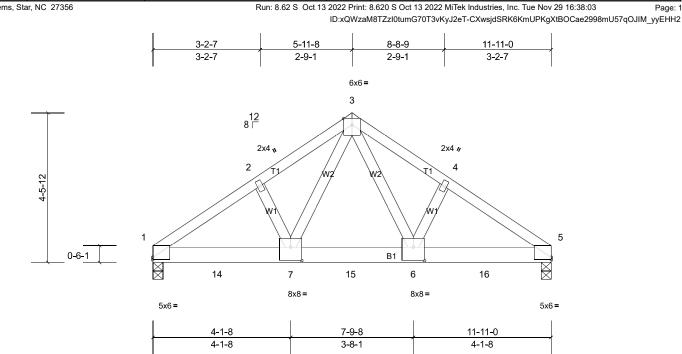
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-10-0 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) 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 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 2 lb uplift at joint 1 and 28 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" 7) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	C03	Common Girder	1	2	Job Reference (optional)

Page: 1

Carolina Structural Systems, Star, NC 27356

Scale = 1:34.5



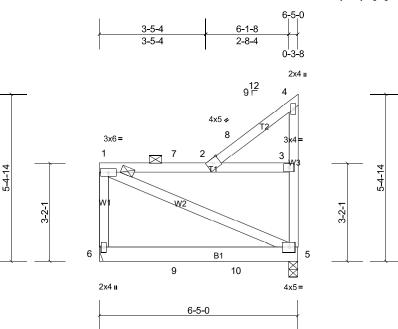
# Plate Offsets (X, Y): [1:Edge,0-0-13], [5:Edge,0-0-13], [6:0-4-0,0-4-12], [7:0-4-0,0-4-12]

Loading		(psf)	Spacing		2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL		1.00	тс	0.35	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL		10.0	Lumber DOL		1.15	BC	0.91	Vert(CT)	-0.12	6-7	>999	240		
BCLL		0.0*	Rep Stress Incr		NO	WB	0.85	Horz(CT)	0.02	5	n/a	n/a		
BCDL		10.0	Code	IRC2	015/TPI2014	Matrix-MS		Wind(LL)	0.00	7	>999	240	Weight: 136 lb	FT = 20%
	0.405.1			6)		has been design m chord in all are			.0psf	-				
TOP CHORD						m cnord in all are by 2-00-00 wide			tom					
BOT CHORD WEBS	2x6 SP N 2x4 SP N					ny other member		veen the bot	lom					
	274 OF IN	0.5		7)		designed in acc		ith the 2015						
BRACING	Otras to and		41- 1	,		Residential Coo			and					
TOP CHORD	4-5-13 oc		eathing directly applied	or	R802.10.2 a	ind referenced st	tandard AN	ISI/TPI 1.						
BOT CHORD			y applied or 10-0-0 oc	8)	provided suf	r other connection	t concentra	ated load(s)						
REACTIONS	0	1-4250/0	)-3-8, (min. 0-2-15),			1-11-0, 1814 lb d 1-0, and 1814 lb		,						
REACTIONS	(ID/SIZE)		-3-8, (min. 0-2-15), )-3-8, (min. 0-2-15)			9-11-0 on bottom			1014					
	Max Horiz					such connection		0						
		· ·	LC 13), 5=4950 (LC 14)	)	responsibilit		( )							
FORCES		-	lax. Ten All forces 250		AD CASE(S)	Standard								
	( )		vhen shown.	1)	Dead + Ro	of Live (balanced	d): Lumbei	Increase=1	15,					
TOP CHORD			7002/0, 3-4=-6983/0,	-	Plate Increa	ase=1.00								
	4-5=-7039	9/0			Uniform Lo									
BOT CHORD		,	0/5897, 7-15=0/4137,			=-60, 3-5=-60, 8	-11=-20							
		,	0/5836, 5-16=0/5836			ed Loads (lb)								
WEBS	3-7=0/416	67, 3-6=0/	4130			1522, 6=-1522, 1	14=-1584,	15=-1522,						
NOTES				<b>0</b> #\	16=-152	2								
<ol> <li>2-ply truss nails as for</li> </ol>		lected tog	ether with 10d (0.131"x	3")										
		t as follow	/s: 2x4 - 1 row at 0-9-0											
oc.	is connected	1 43 101101	3. 2A+ - 1 10w at 0-3-0											
	ords conne	cted as fo	llows: 2x6 - 2 rows											
	at 0-5-0 oc													
Web conn	nected as fo	llows: 2x4	- 1 row at 0-9-0 oc.											
			y applied to all plies,											
			ack (B) face in the LOA	D										
			nections have been											
	o distribute rerwise indio		s noted as (F) or (B),											
			e heen considered for t	his										
<ol> <li>Unbalanced roof live loads have been considered for this design.</li> </ol>														
	CE 7-10; Vu	lt=120mpl	h (3-second gust)											
			CDL=6.0psf; h=25ft;											
	B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;													
			r left and right exposed	;										
		ght expos	ed; Lumber DOL=1.60											
	DOL=1.60													
<ol><li>This truss</li></ol>	nas been d	iesigned fo	or a 10.0 psf bottom											

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

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	D01	Roof Special Girder	1	1	Job Reference (optional)

Run: 8.42 S Feb 11 2021 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Tue Nov 29 16:38:04 Page: 1 ID:zbfN2MFF3Lm?n4PTYyBi7eyJ2gu-gkUFxzS35QSd6Zvs5aidloB54YfUDILzdz1wWOyEHH1



# Scalo - 1.37 3

Scale = 1:37.3												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.85	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	5-6	>999	240	1	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Wind(LL)	0.00	5-6	>999	240		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 49 lb	FT = 20%
LUMBER TOP CHORD 2 BOT CHORD 2			provided suf	r other connect ficient to suppo 3 lb up at 0-1-1	ort concentra	ated load(s)		-				

BOT CHORD 2x6 SP No.2

WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals, and
	2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc

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

**REACTIONS** (lb/size) 5=321/0-3-8, (min. 0-1-8), 6=412/ Mechanical, (min. 0-1-8) Max Horiz 6=51 (LC 8) Max Uplift 5=-47 (LC 8), 6=-17 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-6=-291/80

NOTES

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 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 3-06-00 tall by 2-00-00 wide will fit 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 6) bearing plate capable of withstanding 17 lb uplift at joint 6 and 47 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

## responsibility of others. LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.00

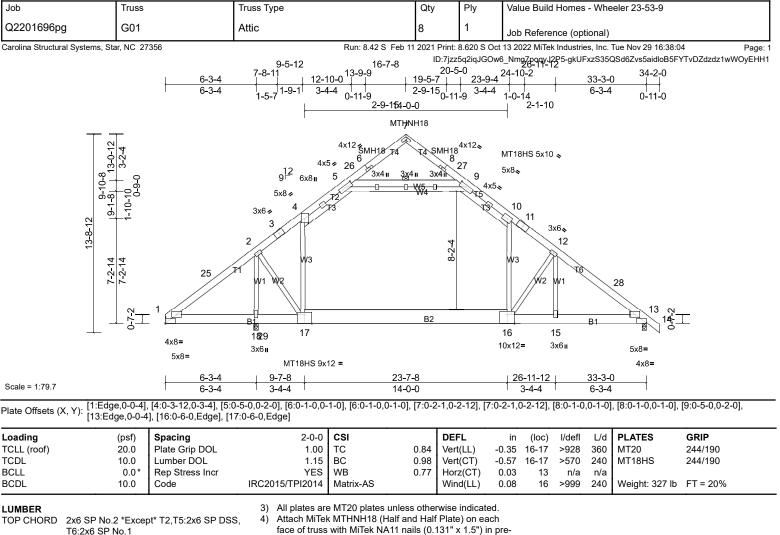
up at 2-5-0, and 72 lb down and 39 lb up at 4-5-0 on top chord, and 47 lb down at 0-1-12, and 33 lb down at 2-5-0, and 33 lb down at 4-5-0 on bottom chord. The design/selection of such connection device(s) is the

Uniform Loads (lb/ft) Vert: 1-2=-60, 2-4=-60, 5-6=-20

Concentrated Loads (lb)

Vert: 6=-35, 1=-65, 7=-43, 8=-43, 9=-28, 10=-28

	I						
Job Truss Q2201696pg E01		uss Type	Qty Ply		alue Build Homes	- whe	eeler 23-53-9
10		ttic Supported Gable	· ·		ob Reference (opt	,	Tue New 20 16:39:04
Carolina Structural Systems, Star, NC 27	3-0-12 3-0-12 7-0-5 8-0-12 8-0-12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1D:ZgCDUPaNex 0-0 17-4-4 20 1-9 3-4-4 2: 35x6= 00 8 2x4 2x4 9		NX_C30yJ2SG-gkUF 26-10-0 6-9-11 " 2 2x4 II		-
	24 23 MT18HS 5x10 3x6	ວິ <b>။</b> 10x12= 	21 20 10x12=	= 3x6i x6ii	18 17 13 37611 37611 26-10-0	1! 5x8= 4x8=	
Scale = 1:79.1	3-2-8	14-0-0 0,0-1-0], [6:0-2-1,0-2-12], [6:0-2-1,0-2-	 12] [7·0-1-0 0-1-(	0] [7:0-1-	9-7-8	0-2-1	2] [15:Edge 0-0-4]
JOINTS 1 Brace at Jt(s): 5, 7 <b>REACTIONS</b> All bearings 26-10-0. (lb) - Max Horiz 24=-286 (l Max Uplift All uplift 11 15, 17, 19 18), 20=-1 (LC 20) Max Grav All reactio (s) 15, 18, 17=879 (L 22=2574 (lb) - Max. Comp./Ma (lb) or less except wl TOP CHORD 2-3=0/471, 3-4=-426 8-30=-258/24, 8-9= 12-13=-309/73, 13-1 14-31=-256/138, 15- BOT CHORD 23-24=-125/266, 22- 21-22=-137/250, 20- 19-20=-113/256, 15-	t* T1,T3:2x6 SP No.1 t* B2:2x12 SP No.2 t* W3:2x4 SP No.3, athing directly applied, applied. 9-21, 3-22, 4-8 LC 10) 00 (lb) or less at joint(s) , 24 except 18408 (LC 628 (LC 19), 23-1804 ns 250 (lb) or less at joint 19, 20, 23 except .C 18), 21=2819 (LC 19) LC 20), 24=334 (LC 19) LC 20), 24=334 (LC 19) ax. Ten All forces 250 hen shown. /144, 4-29=-257/23, 426/148, 9-10=-152/635 4=-372/117, 31=-276/124 .23=-125/266, .21=-113/256, 17=-113/256 =-1450/14, 2-23=0/741, 7=-253/70	<ul> <li>punched holes provided. All nai Nails per side 12 nails total).</li> <li>6) See HINGE PLATE DETAILS for hinged member(s) during transp hinged member(s) during transp ), 8) Gable studs spaced at 2-0-0 oc 10) This truss has been designed for chord live load nonconcurrent w 11) * This truss has been designed on the bottom chord in all areas 3-06-00 tall by 2-00-00 wide wil chord and any other members, 12) Ceiling dead load (10.0 psf) on 13) Provide mechanical connection bearing plate capable of withsta (s) 24, 15, 19, 17 except (jt=lb) 18=407.</li> <li>14) This truss is designed in accord International Residential Code s BR02 10.2 and referenced stam</li> </ul>	SDL=6.0psf; h=25 Exp B; Enclosec ixterior (2) 6-6-12 7-8, Exterior (2) 7-8, exterior	n/a n/a n/a n/a n/a n/a n/a n/a	a - n/a 0 15 n/a 17) Attic room c LOAD CASE(S)		PLATES         GRIP           MT20         244/190           MT18HS         244/190           Weight: 279 lb         FT = 20%           d for L/360 deflection.         idard



- BOT CHORD 2x8 SP DSS \*Except\* B2:2x12 SP No.2 2x4 SP No.3 \*Except\* W3,W4:2x4 SP No.2, 5) W5:2x6 SP No.2 6) BRACING TOP CHORD Structural wood sheathing directly applied. 7) BOT CHORD Rigid ceiling directly applied. 1 Row at midpt 5-9
- 1 Brace at Jt(s): 6, JOINTS 1=970/ Mechanical, (min. 0-1-8), **REACTIONS** (lb/size) 13=1466/0-3-8, (min. 0-1-12), 18=705/0-3-8, (min. 0-1-8) Max Horiz 1=-239 (LC 10) Max Grav 1=1068 (LC 23), 13=1725 (LC 23), 18=1419 (LC 22) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-25=-1491/18, 2-25=-1359/40, 2-3=-2319/0, 3-4=-2233/0, 4-5=-1532/52, 5-26=-260/29,
- 9-27=-260/29, 9-10=-1508/44, 10-11=-2052/0, 11-12=-2138/0, 12-28=-2385/0, 13-28=-2517/0 1-18=0/1052, 18-29=0/1052, 17-29=0/1052, BOT CHORD 16-17=0/1418, 15-16=0/1969, 13-15=0/1969 4-17=0/1285, 10-16=0/1068, 5-9=-1393/82, WEBS 2-18=-1880/0, 2-17=-26/943, 12-15=0/491, 12-16=-1031/62

#### NOTES

WEBS

WEBS

- Unbalanced roof live loads have been considered for this 1) design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-3-14, Interior (1) 3-3-14 to 16-7-8, Exterior (2) 16-7-8 to 19-11-6, Interior (1) 19-11-6 to 34-2-0 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

- face of truss with MiTek NA11 nails (0.131" x 1.5") in prepunched holes provided. All nail holes must be filled (6 Nails per side 12 nails total). See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 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 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 9)
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-9
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17
- 11) Refer to girder(s) for truss to truss connections. 12) This truss is designed in accordance with the 2015
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard

Job	Truss		Truss Type		Qty	Ply		Value Build	Homes	s - Whe	eler 23-53-9	
Q2201696pg	G02		Attic		2	1		lab Defe	noc /	tionel		
10	Systems, Star, NC 27	7356		Run: 8.42 S		nt: 8 620 1	S Oct	Job Refere		,	Tue Nov 29 16:38:0	4 Page: 1
	3-2-4	3 <b>-</b> 9-76	-3-4 9-5-12 12-1 5-13 3-2-8 3-4	16-7 0-0   -  -4   -1-9	7-8 1D:F 2 19-5-7 2-9-15 0 154-0-0 MTHNH18	E616jmP 0-5-0	9FH6a <u>-9-4 <sup>2</sup></u> -4-4		I2Ms-gkL		5QSd6Zvs5aidloB6s 34-2-0 )	YTbDbjzdz1wWOyEHH1
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$4^{12} 6x6=$ $2x4u 23$ $-19$ $4x5=$	4x8 = 3x12 = 4x8 = 173 =	* 24 5 3x41	॥ 3 <u>x</u> 4॥ 3x4ौ <u></u>	° 25 9 <del>7</del> 7 <del>7</del> 7 <del>7</del> 7	4x8 x	10 3 3 11 4x8 x W6 W5 16	x8 <b>\$</b> 42 W4 15 3x6µ	B3	26 13 N- 14- 5x8=	E
Scale = 1:79.9	12:0 2 0 0 0 0	6-1-8 6-1-8	6-3-4 9-7-8 0-1-12 5-0-0-2-01 (5:0-1-0-0-1	01 (6:0 1 0 0	<u>23-7-8</u> 14-0-0	0.0.101.[	7.0.0	<u>26-11-12</u> 3-4-4	8.0.1.0.	<u>33-3-(</u> 6-3-4		
Plate Offsets (X			5-0,0-2-0], [6:0-1-0,0-1- 13:Edge,0-0-4], [16:0-6-	-0,Edge], [17:0	0-6-0,Edge], [1	9:0-2-8,0			5:0-1-0,0			-
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.80 \ 1.00 \ 0.70 H	<b>DEFL</b> /ert(LL) /ert(CT) lorz(CT) Vind(LL)	-0 0	in (loc) .29 16-17 .52 16-17 .03 13 .07 16	l/defl >999 >620 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 353 lb	<b>GRIP</b> 244/190 244/190 FT = 20%
WEBS BRACING TOP CHORD BOT CHORD WEBS JOINTS	2x8 SP DSS *Excep 2x4 SP No.3 *Excep W8:2x6 SP No.2 Structural wood she except end verticals Rigid ceiling directly 1 Row at midpt 1 Brace at Jt(s): 6, 8 b/size) 13=1527/		b.2, b.2, b.2, b.2, b.2, b.2, b.2, b.2,	with MiTek NA es provided. A e 12 nails total PLATE DETAIl ust be made t ber(s) during tr s been design ad nonconcurr has been design n chord in all y 2-00-00 wid y other memb load (5.0 psf)	A11 nails (0.13 Il nail holes mu I). LS for plate pla o prevent later ransportation. ted for a 10.0 p ent with any of gned for a live areas where a le will fit betwe	1" x 1.5") ist be fill acement. al mover osf bottor her live I load of 2 rectangle en the bo	) in pr ed (6 ment loads. 0.0ps e ottom 10, 5-	of f				
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanced design. 2) Wind: ASCE	lax Horiz 19=220 (l lax Grav 13=1809 24), 19=1 (lb) - Max. Comp./M (lb) or less except w 2-3=-1640/0, 3-4=-2 5-24=-260/29, 9-25 10-11=-2223/0, 11 12-26=-2500/0, 13 18-19=0/1171, 17-1 15-16=0/2047, 13-1 4-17=0/1493, 10-16 3-18=-1792/0, 3-17 12-15=0/430, 12-16 roof live loads have	(LC 19), 18=1243 (LC 1255 (LC 19) lax. Ten All forces 2 when shown. 2437/0, 4-5=-1542/21 =-260/29, 9-10=-1522 12=-2259/0, 26=-2649/0 8=0/1186, 16-17=0/1 5=0/2047 =-0/1281, 5-9=-1498/ =-27/886, 2-19=-1568 =-993/22 e been considered fo	chord dead lo 11) Refer to gird 12) This truss is 10 International R802.10.2 ar 13) This truss de 2/14, structural wo chord and 1/2 the bottom ch LOAD CASE(S) 30, 5/0,	bad (10.0 psf) er(s) for truss t designed in ac Residential C ad referenced sign requires t od sheathing l 2" gypsum she hord. lecked for L/36	applied only to to truss conne- ccordance with ode sections F standard ANS that a minimur be applied dire eetrock be app	o room. 1 ctions. the 201 502.11.1 I/TPI 1. n of 7/16 ctly to th	16-17 5 1 and ;" ie top					

- Vasd=95mph; TCDL=6.0pst; BCDL=6.0pst; h=25tt; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 5-1-12 to 8-5-10, Interior (1) 8-5-10 to 21-7-8, Exterior (2) 21-7-8 to 24-11-6, Interior (1) 24-11-6 to 39-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  All plates are MT20 plates unless otherwise indicated.

Job	Truss		Truss Type		Qty	Ply	Value	Build Home	s - Whe	eler 23-53-9	
Q2201696pg	g G03		Attic		4	1	Job B	eference (o	otional)		
Carolina Structura	al Systems, Star, NC 27	7356		Run: 8.62 S Oc	t 13 2022 Pr	int: 8.620 S (			,	Tue Nov 29 16:38:0	5 Page:
			5-10 3-2-11 3-4	0-11-9 2-9-15	19-5-7 2-9-15	0-5-0 1 1 23-0	24-10-2 -4     -4     -4     1-0-14	2	w2d8JTh: <u>33-3-(</u> 6-3-1	34-2-0	lcyp_yzG7sdnT3qyEHH
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$4^{12} 6x6=$ $3x4u 23$ $1 4000000000000000000000000000000000000$	3x12 <sub>11</sub> 4x12¢ 4 3x8=	4x12 \$MH18 74 2 24 5 3x4=	€ 12 SMI 334= 3x4 3x4= 3x4 3x4= 3x4 0 ₩8= 0 10 ± 0 10 10 ± 0 10 ± 0 10 10 ± 0 10 10 10 ± 0 10 10 10 10 10 10 10 10 10 1	<u> </u>	x12\$ MT18HS 3x12# 10 V6 W6 16	4x12 5 7x10 4x8 12 15	B3		I
Scale = 1:79.7	12-0.2 4 0 1 01	4x6=	4x5= MT18HS 9x <u>9-7-8</u> <u>3-4-7</u> -5-4,0-1-12], [6:0-1-0,0-	<u> </u>	3-7-8 4-0-0	0 2 121 17	3-	3x6∎ <u>1-15</u> 4-7	<u>33-3-0</u> 6-3-1		10-0 5 4 0 1 121
Plate Offsets (>			-5-4,0-1-12], [6:0-1-0,0- 3:Edge,0-0-4], [16:0-6-					12], [0:0-1-	u,u- i -U]	, [0.0-1-0,0-1-0],	[ʊ.ʊ-ʊ-ʉ,ʊ- ɪ- l∠],
Loading TCLL (roof) TCDL BCLL BCDL LUMBER	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014 4) Attach MiTel	CSI TC BC WB Matrix-AS	0.80 0.99 1.00 \	DEFL /ert(LL) /ert(CT) Horz(CT) Wind(LL)	-0.29 1 -0.51 1 0.04 -0.12 1	(loc) l/defl 6-17 >999 6-17 >777 13 n/a 5-16 >999	360 240 n/a	PLATES MT20 MT18HS Weight: 353 lb	<b>GRIP</b> 244/190 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS ( FORCES TOP CHORD	2x8 SP No.1 *Excej 2x4 SP No.3 *Excej No.2, W8:2x6 SP N Structural wood she except end verticals Rigid ceiling directly 1 Row at midpt 1 Brace at Jt(s): 6, 8 Ib/size) 13=1658/ 19=1604/ Max Horiz 19=220 (I Max Grav 13=1944 (Ib) - Max. Comp./M (Ib) or less except w 2-3=-2642/0, 3-4=-2 5-24=-263/28, 9-25 10-11=-2772/0, 13-1 12-26=-2692/0, 13-1 18-19=0/2272, 17-1 15-16=0/2206, 13-1 4-17=0/1758, 10-16	eathing directly applie 3. / applied. 5-9 0-3-8, (min. 0-2-5), 0-3-8, (min. 0-2-3) LC 11) (LC 19), 19=1877 (Li lax. Ten All forces 2 /hen shown. 2813/0, 4-5=-1737/0, -263/28, 9-10=-1734 12=-2791/0, 26=-2824/0 8=0/2309, 16-17=0/1 5=0/2206 =0/1758, 5-9=-1739/ =-646/286, 2-19=-25	No.1 face of truss punched hol Nails per sid 5) See HINGE 6) Provisions m hinged mem 7) This truss h chord live loo 8) * This truss l on the botton 3-06-00 tall 1 chord and at 9) Ceiling dead Wall dead lo 10) Bottom chor C 18) 11) This truss d structural wo chord dand 1 1250 11) This truss de structural wo chord and at 12) This truss de structural wo chord and 1/ the bottom cd 13) Attic room cd	with MiTek NA11 es provided. All na e 12 nails total). PLATE DETAILS just be made to p ber(s) during tran is been designed ad nonconcurrent nas been designe n chord in all area by 2-00-00 wide w ay other members load (5.0 psf) on ad (5.0 psf) on me d live load (40.0 p oad (10.0 psf) app designed in acco Residential Code nd referenced sta isign requires that od sheathing be 2" gypsum sheetr hord.	nails (0.13 ail holes mu for plate pla revent later sportation. for a 10.0 p with any où d for a live as where a vill fit betwe s. member(s),4- isf) and add plied only to e sections F ndard ANS t a minimur applied dire rock be app	1" x 1.5") ir ust be filled accement. al movement osf bottom ther live load load of 20.1 rectangle en the bott 1. 4-5, 9-10. 1. 7, 10-16 litional bott b room. 16- the 2015 8502.11.1 a ktop 1. 1. 716" ectly to the	n pre- l (6 ads. Opsf om , 5-9; om .17 and top				
<ol> <li>Unbalanced design.</li> <li>Wind: ASC Vasd=95my B=45ft; L=3 MWFRS (d 8-5-10, Inte to 24-11-6, left and right</li> </ol>	E 7-10; Vult=120mpl bh; TCDL=6.0psf; BC l3ft; eave=4ft; Cat. II irectional) and C-C F rior (1) 8-5-10 to 21- interior (1) 24-11-6 t at exposed ;C-C for r	CDL=6.0psf; h=25ft;	7-8 ever &								

MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.603) All plates are MT20 plates unless otherwise indicated.

Job	Trus	s	Truss Type	Qty Ply	Value Build Homes - Wheeler 23-53-9
Q2201696p	g G04	ر +	Attic Girder	4 2	Job Reference (optional)
Carolina Structur	al Systems, Star, NC	27356	Run: 8.42		Oct 13 2022 MiTek Industries, Inc. Tue Nov 29 16:38:05 Page: 1
		4-2-6			K499UAEGBli1lFyJ1be-8w2d8JThskqUjjU2fHDsH?kIOysVy277sdnT3qyEHH0 30-2-10 34-2-0
		3-0-2 $4-2-6$ $-33-0-2 12 2-0$	8-1 9-5-12 12-6-5 13-9-9 -11 3-2-11 3-0-9 1-3-3	16-7-8   19-5-7   2 2-9-15   2-9-15   2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		1-2-4	1-5-5	1-3-3 M47H0N0118	
			4x12 \$M	H# 14 TA SMH18 4x12	•
	<u> 3-2-4</u>		9 <sup>12</sup> 4x12 29	9 9 30	4x12 <sub>€</sub>
	9-10-8 0-9-0		4x16	<u>3x4= 3x4= 3x4</u> <u> -                                   </u>	0 4x12₅
	9-0		4x12 ¢ 28		4x16u
	<u>9-1-8</u> 9-1-8	4.0	73		V3 A
	<u>13-8-12</u> 9-1- 4-2-	4x6 <	4x8 4	4	4x8 3x6
		3x6≠ 3∡√	W5	8-2-4	4x6 <b>°</b> W5 13
	0-14 0-14	27	W3 W4		W4 W3 14 <sub>31</sub>
	<u>4-10-14</u> 4-10-14	W1 W2			W2 W1
				B2	
	⊥ o`	⊠ 22 5x8= 2u0	21 20		19 18 17 <sup>10</sup>
		3x6u 5x8=	10x12= MT18HS 10x16 =		MT18HS 10x16 = 3x6
Ceele - 1:74 7		3-0-2 6-3-1	9-7-8	23-7-8	26-11-15 30-2-14 33-3-0
Scale = 1:74.7	1.Edge 0-0-	3-0-2 3-2-1		14-0-0	3-4-7 3-2-15 3-0-2 :0-1-0,0-1-0], [8:0-2-1,0-2-12], [8:0-2-1,0-2-12], [9:0-1-0,0-1-0],
Plate Offsets ()	(, Y): [9:0-1-0,0-1-	0], [10:0-1-5,0-1-12], [11:	1-0-5,0-1-0], [12:0-2-12,0-1-8], [15	5:Edge,0-0-4], [15:1-4-0,0-6	-2], [18:0-3-8,0-7-4], [21:0-3-8,0-7-4]
Loading	(psf)	Spacing	4-2-10 <b>CSI</b>	DEFL	in (loc) I/defl L/d PLATES GRIP
TCLL (roof) TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.00 TC 1.15 BC	0.75 Vert(LL) 0.83 Vert(CT)	-0.28         19-20         >999         360         MT20         244/190           -0.63         19-20         >632         240         MT18HS         244/190
BCLL BCDL	0.0° 10.0	* Rep Stress Incr Code	NO WB IRC2015/TPI2014 Matrix-MS	0.69 Horz(CT) Wind(LL)	0.05 15 n/a n/a -0.07 20 >999 240 Weight: 745 lb FT = 20%
LUMBER		-	1) 2-ply truss to be connected	ed together with 10d (0.131	"x3") 14) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11,
TOP CHORD BOT CHORD		ept* T4,T1,T5:2x6 SP No cept* B2:2x12 SP DSS	0.2 nails as follows:	C (	6-10 jered 15) Bottom chord live load (40.0 psf) and additional bottom
WEBS	2x4 SP No.3 *Exc	cept* W5,W6:2x4 SP No.	2, at 0-9-0 oc.	d as follows: 2x10 - 2 rows	chord dead load (5.0 psf) applied only to room. 19-20 16) This truss is designed in accordance with the 2015
WEDGE	W7:2x6 SP No.2 Left: 2x4 SP No.3		staggered at 0-9-0 oc, 2x	12 - 2 rows staggered at 0-	,
BRACING	Right: 2x4 SP No.	.3		rs: 2x4 - 1 row at 0-9-0 oc.	17) Load case(s) 1, 2 has/have been modified. Building
TOP CHORD	2-0-0 oc purlins (4 (Switched from sh	4-6-3 max.) neeted: Spacing > 2-0-0)		) or back (B) face in the LC	
BOT CHORD		tly applied or 10-0-0 oc	provided to distribute only	y loads noted as (F) or (B),	18) Attic room checked for L/360 deflection. LOAD CASE(S) Standard
JOINTS	1 Brace at Jt(s): 7 9, 8	7,	,	d. Is have been considered for	1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
REACTIONS	(lb/size) 1=5869	//0-3-8, (min. 0-3-2),	design. 4) Wind: ASCE 7-10; Vult=1		Uniform Loads (lb/ft) Vert: 6-28=-169, 6-29=-127, 7-29=-139, 7-8=-124,
		3/0-3-8, (min. 0-2-5)		psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed;	8-9=-124, 9-30=-139, 10-30=-127, 10-11=-169, 11-16=-127, 1-20=-106, 19-20=-63, 15-19=-42,
	Max Grav 1=7268	(LC 22), 15=4569 (LC 2 /Max. Ten All forces 25		C-C Exterior (2) 0-0-0 to to 16-7-8, Exterior (2) 16-7	6-10=-42
TOP CHORD	(lb) or less except	when shown.	to 19-11-6, Interior (1) 19	-11-6 to 34-2-0 zone; cantile	ever Trapezoidal Loads (lb/ft)
	3-4=-8976/0, 4-5=	27=-9504/0, 3-27=-9503/0 7653/0, 5-28=-4737/0,	, exposed;C-C for member	rs and forces & MWFRS for	10-27=-373, 27=-373-10-3=-302, 3=-302-10-4=-342,
	7-8=-295/104, 8-9	29=-549/61, 7-29=-470/69 9=-295/104, 9-30=-470/70	DOL=1.60	to support a ceiling and is	4=-342-to-5=-306, 5=-349-to-28=-332 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor:
	10-30=-549/61, 10 11-12=-7471/0, 12	2-13=-6333/0,	intended for use where a	esthetics are a consideratio	n. Uniform Loads (Ib/ft)
	13-14=-6510/0, 14 15-31=-6829/0	4-31=-6751/0,	7) Attach MiTek MTHNH18	s unless otherwise indicated (Half and Half Plate) on eac (Add pails (0.121" x 1.5") in	ch 8-9=-103, 9-30=-116, 10-30=-105, 10-11=-148
BOT CHORD		22=0/8482, 20-21=0/782 -19=0/5174, 17-18=0/53	5, punched holes provided.	VA11 nails (0.131" x 1.5") in All nail holes must be filled	pre- 11-16=-105, 1-20=-201, 19-20=-190, 15-19=-42,
WEBS	15-17=0/5365	20=0/4252, 6-10=-4706/0	Nails per side 12 nails to 8) See HINGE PLATE DET	AILS for plate placement.	Horz: 7-29=12, 7-8=-4, 8-9=4, 9-30=-12 Trapezoidal Loads (lb/ft)
-		21=0/2670, 12-18=-2589/	0, 9) Provisions must be made hinged member(s) during		Nt or Vert: 1=-388-to-23=-378, 23=-378-to-2=-356, 2=-356- to 27= 352, 27= 352 to 3= 341, 3= 341 to 4= 320
NOTES		-17=0/382, 14-18=-323/1	10) The Cabrination Talarana	e at joint 20 = 8%, joint 19 =	
NOTES			Plate must be within 1/4 12) This truss has been desig	in of bearing surface.	
				rrent with any other live load	
			on the bottom chord in al	areas where a rectangle	
			chord and any other men	ide will fit between the botton bers.	<b>7</b> 11

Job	Trus	S	Truss Type		Qty	Ply	Value Build	Homes - W	heeler 23-53-9	
Q2201696p	g G05	i	Attic		6	1	Job Refere	nce (optiona	I)	
Carolina Structur	al Systems, Star, NC	27356		Run: 8.42 S Feb			t 13 2022 MiTek	Industries, In	c. Tue Nov 29 16:38:0	
	0-12 2-4		<u>3-3-1 9-5-12 12-1</u> -5-10 3-2-11 3-4 	-4 0-11-9 2-9-154- МТн <sup>4x12</sup> §мн18 т4	20-   <u>19-5-7</u>     2-9-15   0-1	5-0 <u>23-9-4</u> 	24 10 2	<u>33-</u> 6-3	34-2-0	⟨IFyrsy5x7sdnT3qyEH⊢
	13-8-12 13-8-12 13-14 1-10-10 13-2-14 1-10-10 13-2-0	4 <sup>12</sup> 6x6 2x41 2 <b>3</b> 1 H	4x8 • 4 3x4 • 3	5≉ 24 5 3x4∎ 3	8 84∥ 3x4n □ ₩87 □	25 9 4x5. 15	4x8 10 11	0x4 \$ 12 10 10	26	
		19 5x6= 18	B1 17 5= MT18HS 9x	12 =	B2		16 10x12=	B3 15 3x6 v	13 cy 14 5x8= 4x8=	E
Scale = 1:79.9	[2:0 1 0 0 1	$\begin{array}{c c} 4 - 0 - 0 & 4 - 1 - 7 \\ \hline 4 - 0 - 0 & 4 \\ \hline 4 - 0 - 0 & 0 - 1 - 7 \\ \hline 81 & [4 \cdot 0 & 3 + 0 & 2 & 0] & [5 \cdot 0 \\ \hline \end{array}$	9-7-8	14-	-7-8 -0-0	2 121 17:0	29-1-	2	33-3-0 4-1-12	0.0 5 8 0 2 01
Plate Offsets ()			13:0-8-1,0-4-10], [16:0-6			2-12], [7.0-	2-1,0-2-12j, [C	5.0-1-0,0-1-0	j, [0.0-1-0,0-1-0], [8	9.0-3-0,0-2-0],
L <b>oading</b> TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-7-3 1.00 1.15 YES IRC2015/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.76 Ve 0.87 Ve 0.51 Ho	rt(CT) - rz(CT)	in (loc) 0.34 16-17 0.61 16-17 0.02 13 0.13 15-16	l/defl L/ >999 36 >575 24 n/a n/ >999 24	0 MT20 0 MT18HS a	<b>GRIP</b> 244/190 244/190 FT = 20%
BOT CHORD WEBS BRACING	T6:2x6 SP No.1 2x8 SP DSS *Exc 2x4 SP No.3 *Exc No.2, W8:2x6 SP Structural wood s except end verticc Rigid ceiling direc 1 Row at midpt 1 Brace at Jt(s): 6 8	heathing directly appli als. tly applied. 5-9, 3-18	<ul> <li>S, face of truss punched hol Nails per sid</li> <li>SP 5) See HINGE</li> <li>6) Provisions m hinged mem</li> <li>ed, 7) This truss ha chord live los</li> <li>8) * This truss lo on the botton 3-06-00 tall l chord and ar</li> <li>9) Ceiling dead</li> </ul>	MTHNH18 (Half a with MiTek NA11 r es provided. All na e 12 nails total). PLATE DETAILS fo ust be made to prr ber(s) during trans as been designed f ad nonconcurrent v has been designed m chord in all areas by 2-00-00 wide wi by other members. load (5.0 psf) on me	nails (0.131" il holes mus or plate place event lateral portation. or a 10.0 ps with any othe for a live los s where a re Il fit betweer nember(s).4	x 1.5") in p t be filled (i movement. f bottom er live load ad of 20.0p ctangle n the bottor 4-5, 9-10, 5	ore- 6 t of s. vsf n			
	18=146 Max Horiz 18=-198 Max Grav 13=135 (lb) - Max. Comp./ (lb) or less except 2-3=-41/379, 3-4=	3/0-3-8, (min. 0-1-12) 8 (LC 10) 1 (LC 19), 18=1704 (L /Max. Ten All forces when shown. 1700/0, 4-5=-1104/0,	10) Bottom chor chord dead l C 21) 11) This truss is International R802.10.2 a 12) This truss de churches	d live load (40.0 ps oad (10.0 psf) app	f) and additi lied only to r dance with tl sections R5 dard ANSI/7 a minimum	onal bottor oom. 16-1 ne 2015 02.11.1 an PI 1. of 7/16"	7 d			
BOT CHORD	12-26=-2002/0, 13	11=-1629/0, 11-12=-10 3-26=-2107/0 17=0/1147, 15-16=0/15	chord and 1/	2" gypsum sheetro						
WEBS	13-15=0/1647 4-17=0/1005, 10- 3-17=0/662, 3-18=	16=0/969, 5-9=-1004/7 =-2399/0, 2-19=-92/30	13) Attic room cl , LOAD CASE(S)	necked for L/360 d	eflection.					
design. 2) Wind: ASC Vasd=95m B=45ft; L=3 MWFRS (c 8-5-10, Inte to 24-11-6,	E 7-10; Vult=120m ph; TCDL=6.0psf; I 33ft; eave=4ft; Cat. lirectional) and C-C erior (1) 8-5-10 to 2 Interior (1) 24-11-6 ht exposed ; end ve	2-16=-754/5 we been considered for ph (3-second gust) 3CDL=6.0psf; h=25ft; II; Exp B; Enclosed; Exterior (2) 5-1-12 to (1-7-8, Exterior (2) 21- 5 to 39-2-0 zone; canti ertical left and right d forces & MWERS for	7-8 lever							

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) All plates are MT20 plates unless otherwise indicated.

Lab	T	T		Dha	
Job	Truss	Truss Type		Ply 2	Value Build Homes - Wheeler 23-53-9
Q2201696pg Carolina Structural Systems, Star	G06	Attic Girder	·	<b>2</b>	Job Reference (optional) t 13 2022 MiTek Industries, Inc. Tue Nov 29 16:38:06 Page: 1
ΤJ	- 4 - 4 -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B ID:23Vr7Cl 20-5-( 19-5-7 + 2-9-15 0-11-5 54-0-0 ITHENH18 4 T4 SMH18 <sup>4</sup>	ErezRGAks 23-9-4 3-4-4	k9gDTGYULyJ13d-c6c?MfUJd1iLLt3EC?k5qDGR7MBjhVqG4HW0bGyEHH? 34-2-0
-12  9-1-8  	$\begin{array}{c} 1 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\$	B1 16 10x12=	3x4= 3x43 W6 0 V7 0 V7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 4x5 x 4352	x 9 5x6x 10 3x6x 11 15 14 10x12= 3x6u 5x8= 4x8=
Scale = 1:79.7	<u>3-7-11</u> 3-7-11		23-7-8 4-0-0		<u>29-7-5</u> 33-3-0 5-11-13 3-7-11
Plate Offsets (X, Y): [3:0-3-4 [12:0-8-	.,0-2-0], [4:0-5-8,0-2-0], [5:0- 0,0-1-8], [12:0-8-1,0-4-10],	-1-0,0-1-0], [5:0-1-0,0-1-0], [6:0-2-1,0-2- [15:0-6-0,Edge], [16:0-6-0,Edge]	12], [6:0-2-1,0-2-	·12], [7:0-	)-1-0,0-1-0], [7:0-1-0,0-1-0], [8:0-5-8,0-2-0], [9:0-3-4,0-2-0],
TCLL (roof) TCDL BCLL	(psf)Spacing20.0Plate Grip DOL10.0Lumber DOL0.0*Rep Stress Incr10.0Code	2-7-10 <b>CSI</b> 1.00 TC 1.15 BC NO WB IRC2015/TPI2014 Matrix-MS	0.88 Vert(1 0.83 Vert(1 0.66 Horzt Wind	L) -0 CT) -0 (CT) 0	in (loc) I/defl L/d PLATES GRIP 0.033 15-16 >999 360 MT20 244/190 0.057 15-16 >698 240 MT18HS 244/190 0.03 12 n/a n/a 0.12 14-15 >999 240 Weight: 658 lb FT = 20%
WEBS 2x4 SP No.3 No.2, W7:2x6 BRACING TOP CHORD 2-0-0 oc purl verticals (Switched fro BOT CHORD Rigid ceiling bracing. JOINTS 1 Brace at Jt 5, 7, 1, 6 REACTIONS (Ib/size) 12 18 Max Horiz 18 Max Grav 12 FORCES (Ib) - Max. Cr (Ib) or less ex TOP CHORD 1-2=-3182/0, 9-10=-3243/0 1-18=-2422/0 BOT CHORD 17-18=-260/3 15-16=0/243 WEBS 2-17=-1607/0 9-15=0/1645 11-14=-577/3 NOTES 1) 2-ply truss to be connect nails as follows: TOp chords connected as at 0-9-0 oc, 2x4 - 1 row a Bottom chords connected as at 0-9-0 oc, 2x4 - 1 row a Bottom chords connected as follows: Top chords as roon (IC) CASE(S) section. Ply to	*Except* B2:2x12 SP No.2 *Except* W5,W6,W1:2x4 S 6 SP No.2 lins (6-0-0 max.), except en orn sheeted: Spacing > 2-0-1 directly applied or 10-0-0 oc t(s): 2, =2127/0-3-8, (min. 0-1-8), =2146/0-3-8, (min. 0-1-8) =327 (LC 6) =2503 (LC 15), 18=2505 (L1 omp./Max. Ten All forces 2 xcept when shown. 2-3=-3453/0, 3-4=-2324/0, 7-8=-347/21, 8-9=-2321/0, 0, 10-11=-3451/0, 11-12=-36 0 325, 16-17=0/3300, 3, 14-15=0/3214, 12-14=0/3 0, 2-16=-993/3, 3-16=0/1510 , 4-8=-2195/0, 1-17=0/3274 361, 11-15=-1148/98 ted together with 10d (0.131 s follows: 2x6 - 2 rows stagg at 0-9-0 oc. d as follows: 2x8 - 2 rows x12 - 2 rows staggered at 0- ws: 2x4 - 1 row at 0-9-0 oc. equally applied to all plies, F) or back (B) face in the LC ply connections have been ly loads noted as (F) or (B),	<ul> <li>4) Wind: ASCE 7-10; Vult=120r Vasd=95mph; TCDL=6.0psf; B=45ft; L=33ft; eave=4ft; Cat MWFRS (directional); cantile end vertical left and right exp plate grip DOL=1.60</li> <li>5) All plates are MT20 plates ur</li> <li>6) Attach MiTek MTHNH18 (Ha face of truss with MiTek NA1 punched holes provided. All n Nails per side 12 nails total).</li> <li>7) See HINGE PLATE DETAILS</li> <li>8) Provisions must be made to hinged member(s) during tra</li> <li>9) This truss has been designed chord live load nonconcurrer</li> <li>10) * This truss has been designed on the bottom chord in all are 3-06-00 tall by 2-00-00 wide chord and any other membel 374/0,</li> <li>11) Ceiling dead load (10.0 psf) 4-8</li> <li>12) Bottom chord live load (40.0 chord dead load (5.0 psf) ap 13) This truss is designed in acc International Residential Coc (R802.10.2 and referenced st 14) Graphical purlin representati or the orientation of the purlin bottom chord.</li> <li>15) Attic room checked for L/360 LOAD CASE(S) Standard</li> </ul>	nph (3-second g BCDL=6.0psf; h L II; Exp B; Enclc ver left and right osed; Lumber D less otherwise ir if and Half Plate) 1 nails (0.131" x nail holes must b S for plate placen prevent lateral m nsportation. d for a 10.0 psf b t with any other ed for a live load as where a rect will fit between th son member(s). 2- psf) and addition ordance with the le sections R502 andard ANSI/TP on does not depi n along the top a	Ist) =25ft; ised; exposed OL=1.60 indicated. on each 1.5") in pi e filled (6 inent. ovement ottom ive loads of 20.0ps angle ine bottom 3, 3-4, 8- al bottom n. 15-16 2015 .11.1 and 1. ct the size	d; bore- 6 t of s. ssf m 3-9, m

Job	T	Truss	I	Truss Type		Qty	Ply	Value Build I	Homes	- Whe	eler 23-53-9	
Q2201696p	g	G07		Attic		4	1	Job Referen	ce (onti	onal)		
Carolina Structur	al Systems, Star	, NC 27	356		Run: 8.62 S Oct 13			13 2022 MiTek	Industrie	s, Inc.	Tue Nov 29 16:38:0	Ũ
	13-8-12 13-0-12 9-1-8 9-1-8	4-10-14 - 4-2-10 0-9-0 3-2-4 -	6-3-1 6-3-1 25	1-5-11 3 1-9-1 9 <sup>12</sup> 3x12 <sub>11</sub>	13-9-9	ID:xQWza <u>19-5-7</u> 2-9-15 1-3 -0 IH18 T4 SMH18 8 3 4 1 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1	M8TZzl0tur -11 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	nG70T28K44242 24-10-2 	ξ-c6c?Mf		Lt3EC?k5qDGQBM 34-2-0	99?hYpG4HW0bGyEHH?
	4	4 4	1								13 N	<u> </u>
		- 2-0-	<u>لح</u>	B1 18 17		B2		16 1:		B1		
			4x8= 5x8=	3x6ıı 10x12	=			8HS 9x12 =			5x8=	
				079	22.7	0			(6 II	<b>.</b>	4x8=	
Scale = 1:79.7			<u>6-3-1</u> 6-3-1	9-7-8 3-4-7	<u> </u>	-0		<u>26-11-15</u> 3-4-7		<u>33-3-(</u> 6-3-1	]	
Plate Offsets ()	X, Y): [1:Edge [9:0-1-5	,0-0-4], ,0-1-12]	[2:0-3-0,0-2-0], [4:0-8  , [10:0-8-5,0-1-4], [12	8-5,0-1-4], [5:0-2-11, 2:0-3-4,0-1-0], [13:Eo	0-2-8], [6:0-1-0,0-1-0], dge,0-0-4], [16:0-6-0,E	[6:0-1-0,0-´ dge], [17:0-	1-0], [7:0-2 6-0,Edge]	-1,0-2-12], [7:	0-2-1,0	-2-12]	, [8:0-1-0,0-1-0],	[8:0-1-0,0-1-0],
Loading TCLL (roof) TCDL BCLL BCDL	:	psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0- 1.0 1.1 YEs IRC2015/TPI201-	0 TC 5 BC S WB	0.94 Vert 0.47 Hor	t(LL) -0 t(CT) -0 z(CT) 0	).50 16-17 ).04 13	l/defl >999 >796 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 342 lb	<b>GRIP</b> 244/190 244/190 FT = 20%
WEBS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS	2x8 SP No.1 2x4 SP No.3 W5:2x6 SP N Structural wo Rigid ceiling 1 Row at min 1 Brace at Jt 8 (Ib/size) 1= 13 Max Horiz 1= (Ib) - Max. Co (Ib) or less ei 1-25=-2736/0	*Except lo.2 bod she directly lpt \$ (s): 6, 1542/ M =1599/( -239 (L) -239 (L) 1834 (L bomp./Ma ccept wi ), 2-25= 4-5=-1 3, 9-10=	5-9 1echanical, (min. 0-1- 0-3-8, (min. 0-2-4) C 10) C 18), 13=1884 (LC ax. Ten All forces 2 hen shown. -2605/0, 2-3=-2662/0 738/19, 5-26=-263/28 -1738/18,	<ul> <li>face of tru punched h</li> <li>Nails per s</li> <li>See HING</li> <li>Provisions</li> <li>Provisions</li> <li>This truss chord live</li> <li>* This truss on the bot</li> <li>3-06-00 ta</li> <li>(a)</li> <li>(b)</li> <li>(c)</li> &lt;</ul>	Tek MTHNH18 (Half an ss with MiTek NA11 na ioles provided. All nail l side 12 nails total). E PLATE DETAILS for s must be made to preve mber(s) during transport has been designed for load nonconcurrent will s has been designed for tom chord in all areas v all by 2-00-00 wide will f any other members. ad load (10.0 psf) on m ord live load (40.0 psf) d load (5.0 psf) applied irder(s) for trusts to trus is designed in accorda al Residential Code se and referenced stand- design requires that a	ils (0.131") holes must plate place rent lateral i ortation. a 10.0 psf th any othei or a live loa where a rec fit between nember(s). and additic l only to roc s connectic noce with th ections R50 ard ANSI/TI minimum o	x 1.5") in pr be filled (6 ement. movement bottom r live loads d of 20.0ps tangle the bottom 4-5, 9-10, onal bottom om. 16-17 ons. e 2015 2.11.1 and Pl 1. f 7/16"	of .f				
12-28=-2599/0, 13-28=-2730/0 BOT CHORD 1-18=0/2320, 17-18=0/2320, 16-17=0/1869, 15-16=0/2131, 13-15=0/2131 WEBS 10-16=0/1580, 4-17=0/1584, 5-9=-1686/49, 14				69, chord and the bottom .9, 14) Attic room LOAD CASE(	checked for L/360 def	k be applied						
design. 2) Wind: ASC Vasd=95m B=45ft; L=: MWFRS (c 3-3-14, Inte	CE 7-10; Vult=^ ph; TCDL=6.0 33ft; eave=4ft; directional) and erior (1) 3-3-14	l20mph psf; BC Cat. II; d C-C E t to 16-	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-0 to 7-8, Exterior (2) 16-7- o 34-2-0 zone; cantile	-8								

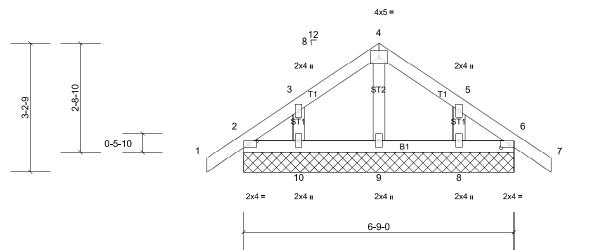
to 19-11-6, Interior (1) 19-11-6 to 34-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
All plates are MT20 plates unless otherwise indicated.

Job		Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9				
Q2201696pg	9	G08	Attic Supported Gable	1	1	Job Reference (optional)				
Carolina Structura	al Systems, Sta	r, NC 27356	Run: 8.42 S F			t 13 2022 MiTek Industries, Inc. Tue Nov 29 16:38:06 Page ncNJ7wWiMyJ1gg-c6c?MfUJd1iLLt3EC?k5qDGZEMGshZIG4HW0bGyEH				
		7-	9-5-12 13-9-9 8-11 ↓ 12-10-0 ↓ ↓ 16-7		5-0   23-9-4	4 <sup>24-10-2</sup> 33-3-0 34-2-0				
		7-	8-11 <sup>1</sup> 1-9-1 3-4-4 <sup>1</sup>	<sup>1</sup> 2-9-15 <sup>1</sup> .1154-0-0 <sup>0-1</sup>	1 3-4-4 1-9	1-0-14 8-4-14 0-11-0				
				МТ <b>ңі)</b> Н18						
	1	4 13		*	8 <sup>5x6=</sup>					
		<u>13-0-1</u> 3-2-4	<sup>5x6</sup> 5MH18 9		8 1					
			9 <sup>12</sup> 8 3x4 <sub>1</sub> 4x6¢ 5	ı 3 <u>x</u> 4⊪ 3x4ĭi <u>- 0 ₩3, 0</u>	12	7x8₅				
					14	13				
	13-8-12		5			14				
	13-	9-10-8 9-10-8	3 W1	8-2-4	-	W116				
		ත්ත් 2 /	ST4	ŭ						
			ST2			ST2				
				B2	Ļ					
		_ G 29	28 27 26 25		*********	24 23 22 21 20				
		4x8= 3x6 5x8=	3x6ı 3x6ı 3x6ı 10x12=			10x12= 3x6ı 3x6ı 3x6ı 3x6ı 5x8=				
				~ ~ ~ ~		4x8=				
Scale = 1:83.2			9-7-8 9-7-8	23-7-8 14-0-0		9-7-8				
Plate Offsets (X		,0-0-4], [8:0-2-4,0-2-12], [9: 0,0-4-8], [18:Edge,0-0-4], [		-2-12], [10:0-2-7	1,0-2-12], [	[11:0-1-0,0-1-0], [11:0-1-0,0-1-0], [12:0-2-4,0-2-12],				
Loading	-	(psf) <b>Spacing</b>	2-0-0 <b>CSI</b>	DEF		in (loc) l/defl L/d PLATES GRIP				
TCLL (roof)	:	20.0 Plate Grip DOL	1.00 TC	0.36 Vert	(LL)	n/a - n/a 999 MT20 244/190				
TCDL BCLL		10.0Lumber DOL0.0*Rep Stress Incr	1.15 BC YES WB		:(CT) z(CT) (	n/a - n/a 999 MT18HS 244/190 0.01 18 n/a n/a				
BCDL		10.0 Code	IRC2015/TPI2014 Matrix-AS			Weight: 324 lb FT = 20%				
WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS A (Ib) - N	2x8 SP No.2 2x4 SP No.2 W3:2x6 SP N 2x4 SP No.3 Structural wo Rigid ceiling 1 Row at mic 1 Brace at Jt 11 All bearings 3: Jax Horiz 1= Jax Uplift All 20 23 16	*Except* B2:2x12 SP No.2 *Except* W3:2x4 SP No.3, No.2 bod sheathing directly applied directly applied. dpt 8-12 t(s): 9, 3-3-0. -239 (LC 10) uplift 100 (lb) or less at joir , 21, 22, 27, 28, 29 except =-1063 (LC 16), 26=-1060	MWFRS (directional) and C-0 3-3-14, Exterior (2) 3-3-14 to 19-11-6, Exterior (2) 19-11-6 left and right exposed; end v exposed;C-C for members an reactions shown; Lumber DC DOL=1.60 3) Truss designed for wind load only. For studs exposed to w see Standard Industry Gable or consult qualified building d 4) All plates are MT20 plates ur 6) Attach MiTek MTHNH8 (Hai LC face of truss with MiTek NA1 punched holes provided. All r	BCDL=6.0psf; II; Exp B; Enc C Corner (3) 0-1 16-7-8, Corner to 34-2-0 zone; rertical left and nd forces & MW 0L=1.60 plate g ds in the plane d vind (normal to End Details as lesigner as per pless otherwise in f and Half Plate 1 nails (0.131" >	h=25ft; losed; 0-0 to (3) 16-7-8 (cantileven right /FRS for rip of the truss the face), applicable ANSI/TPI indicated. a) on each (1.5") in p	r LOAD CASE(S) Standard s e, 1. ore-				
יו	(s) 1= 24	reactions 250 (lb) or less a 20, 21, 22, 23, 26, 28, 29 ( 600 (LC 1), 18=667 (LC 1), =1585 (LC 25), 25=1584 (L ) 27=254 (LC 19)	8) Provisions must be made to p	prevent lateral i nsportation.	novement	t of				
FORCES	(lb) - Max. Co	), 27=254 (LC 19) omp./Max. Ten All forces	10) Cable stude spaced at 2.0.0	oc.						
	1-2=-872/0, 2 4-5=-883/84,	xcept when shown. 2-3=-892/0, 3-4=-893/25, , 5-6=-818/88, 6-7=-862/132	chord live load nonconcurren 12) * This truss has been designed	t with any othe ed for a live loa	r live loads d of 20.0ps					
		3, 8-9=-257/29, 11-12=-257 153, 13-14=-853/132,	3-06-00 tall by 2-00-00 wide will fit between the bottom							
	16-17=-892/0	87, 15-16=-893/26, ), 17-18=-874/0	13) Ceiling dead load (10.0 psf) o	chord and any other members, with BCDL = 10.0psf. 13) Ceiling dead load (10.0 psf) on member(s). 7-8, 12-13,						
BOT CHORD		28-29=0/691, 27-28=0/691 , 25-26=0/691, 24-25=0/68	8-12 14) Provide mechanical connection (by others) of truss to							
	23-24=0/684	, 22-23=0/684, 21-22=0/68 , 18-20=0/684	4, bearing plate capable of with (s) 27, 28, 29, 22, 21, 20 exc	•		bint				
WEBS		261, 7-25=-500/266,	23=1062. 15) This truss is designed in acco	ordance with th	e 2015					
NOTES			International Residential Cod	le sections R50	2.11.1 and	d				
design.	1 1001 IIVE 108	ds have been considered fo	16) This truss design requires that structural wood sheathing be chord and 1/2" gypsum shee	at a minimum o applied directly	f 7/16" y to the top					

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	H01	Common Supported Gable	2	1	Job Reference (optional)

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Scale = 1:28.7

## Plate Offsets (X, Y): [2:0-1-9,Edge], [6:0-1-9,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 32 lb	FT = 20%

# LUMBER

- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing dir
- TOP CHORDStructural wood sheathing directly applied.BOT CHORDRigid ceiling directly applied.
- REACTIONS All bearings 6-9-0.
  - (lb) Max Horiz 2=47 (LC 11), 11=47 (LC 11) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11 Max Grav All reactions 250 (lb) or less at joint
    - (b) Max. Comp./Max. Ten. All forces 250
- FORCES (lb) Max. Comp./Max. Ten. Al (lb) or less except when shown.

# NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 3-4-8, Corner (3) 3-4-8 to 6-9-0, Exterior (2) 6-9-0 to 7-8-0 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
- 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) 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.
  \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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
- bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 10, 8, 2.

- R802.10.2 and referenced standard ANSI/TPI 1. 10) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the
  - structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This truss is designed in accordance with the 2015

International Residential Code sections R502.11.1 and

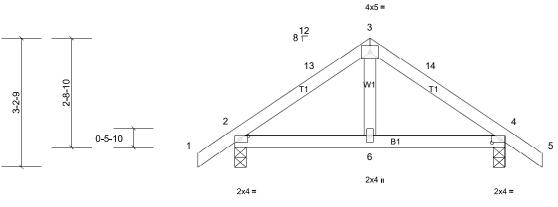
LOAD CASE(S) Standard

9)

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	H02	Common	10	1	Job Reference (optional)

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3-4-8 6-9-0 3-4-8 3-4-8

Scale = 1:28.7

## Plate Offsets (X, Y): [2:0-1-9,Edge], [4:0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.00	6-12	>999	240	Weight: 29 lb	FT = 20%

LUMBER

LOWIDER		
TOP CHORD	2x4 SP N	o.2
BOT CHORD	2x4 SP N	o.2
WEBS	2x4 SP N	0.3
BRACING		
TOP CHORD	Ctrusture	Lucad abaathing directly applied
		I wood sheathing directly applied.
BOT CHORD	Rigid ceil	ing directly applied.
REACTIONS	(lb/size)	2=325/0-3-8, (min. 0-1-8),
	. ,	4=325/0-3-8, (min. 0-1-8)
	Max Horiz	2=49 (LC 11)
	Max Uplin	2=-25 (LC 12), 4=-25 (LC 12)
FORCES	(lb) - Max	. Comp./Max. Ten All forces 250
	(lb) or les	s except when shown.
TOP CHORD	2-13=-292	2/38, 4-14=-292/38
NOTES		

#### NOTES

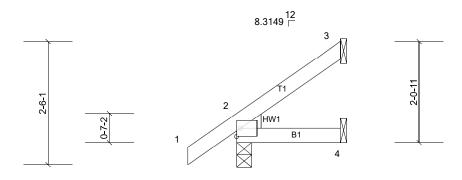
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-4-8, Exterior (2) 3-4-8 to 6-9-0, Interior (1) 6-9-0 to 7-8-0 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 3)
- 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
- 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" 7) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	J01	Jack-Open	2	1	Job Reference (optional)

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4x5 =



Scale = 1:23.5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	0.00	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 10 lb	FT = 20%

- LUMBER
- TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEDGELeft: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or
	2-1-6 oc purlins.

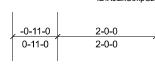
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS (lb/size) 2=151/0-3-10, (min. 0-1-8), 3=44/ Mechanical, (min. 0-1-8), 4=22/ Mechanical, (min. 0-1-8)
  - Max Horiz 2=59 (LC 12) Max Uplift 2=-15 (LC 12), 3=-16 (LC 12) Max Grav 2=151 (LC 1), 3=45 (LC 17), 4=34 (LC 3)
- FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

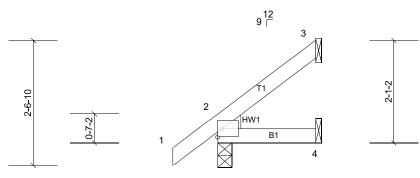
NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 16 lb uplift at joint 3 and 15 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	J02	Jack-Open	1	1	Job Reference (optional)

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4x5 =



Scale = 1:23.5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.06	Vert(LL)	0.00	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 9 lb	FT = 20%

- LUM BER
- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 Left: 2x4 SP No.2
- WEDGE BRACING

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

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

#### REACTIONS (lb/size) 2=143/0-3-8, (min. 0-1-8), 3=43/ Mechanical, (min. 0-1-8), 4=22/ Mechanical, (min. 0-1-8)

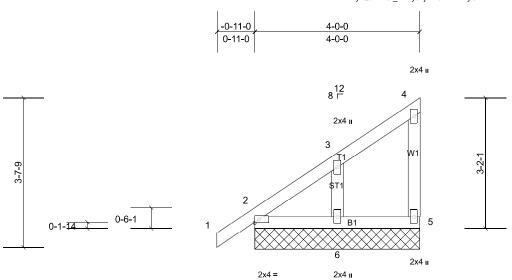
- Max Horiz 2=60 (LC 12) Max Uplift 2=-11 (LC 12), 3=-17 (LC 12) Max Grav 2=143 (LC 1), 3=45 (LC 17), 4=34 (LC 3)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

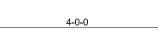
NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (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
- This truss has been designed for a 10.0 psf bottom 2) 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 3-06-00 tall by 2-00-00 wide will fit 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 17 lb uplift at joint 3 and 11 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	J03	Monopitch Supported Gable	1	1	Job Reference (optional)

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Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 21 lb	FT = 20%
LUMBER			9) This truss is	designed in acc	ordance w	ith the 2015						
TOP CHORD	2x4 SP No.2		Internationa	Residential Co	de sections	s R502.11.1 a	ind					
BOT CHORD	2x4 SP No.2			ind referenced s								
WEBS	2x4 SP No.3		10) This truss d									
OTHERS	2x4 SP No.3			ood sheathing be								
BRACING			the bottom of	/2" gypsum shee	еггоск ре а	pplied directly	y to					
TOP CHORD		eathing directly applied,	<sup>'</sup> LOAD CASE(S)									
	except end verticals		LUAD CASE(S)	Stanuaru								
BOT CHORD	Rigid ceiling directly	/ applied.										
	All bearings 4-0-0. Max Horiz 2=88 (LC Max Uplift All uplift 1 2, 5, 6, 7	11), 7=88 (LC 11) 100 (lb) or less at joint(s	5)									
		ons 250 (lb) or less at jo i, 7	pint									
FORCES	(lb) - Max. Comp./M (lb) or less except w	lax. Ten All forces 250 /hen shown.	0									
NOTES												
	CE 7-10; Vult=120mpł											
	nph; TCDL=6.0psf; BC											
	=24ft; eave=2ft; Cat. II											
	(directional) and C-C (	-4 zone; cantilever left										
		left and right exposed;	·C-									
	nbers and forces & M											
	umber DOL=1.60 plate											
		in the plane of the truss	5									
		d (normal to the face),										
		nd Details as applicable										
		igner as per ANSI/TPI	1.									
	uires continuous botto											
	ds spaced at 2-0-0 oc											

5)́

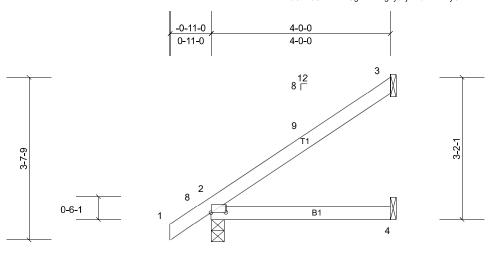
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 6) 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) 2, 5, 6, 2.

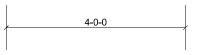
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 7.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	J04	Jack-Open	3	1	Job Reference (optional)

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2x4 =



Scale = 1:25.7

### Plate Offsets (X, Y): [2:0-4-0,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.01	4-7	>999	240	Weight: 15 lb	FT = 20%

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

### BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

- REACTIONS (lb/size) 2=219/0-3-8, (min. 0-1-8), 3=103/ Mechanical, (min. 0-1-8), 4=48/ Mechanical, (min. 0-1-8) Max Horiz 2=87 (LC 12) Max Uplift 2=-3 (LC 12), 3=-36 (LC 12) Max Grav 2=219 (LC 1), 3=103 (LC 1), 4=73
- FORCES (Ib) Max. Comp./Max. Ten. All forces 250
- (b) or less except when shown.

# NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-11-4 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 36 lb uplift at joint 3 and 3 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

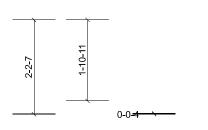
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	V01	Valley	1	1	Job Reference (optional)

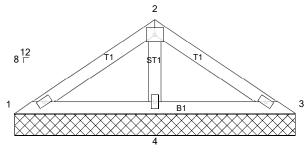
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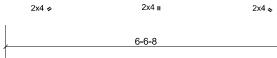
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 Page: 1



4x5 =







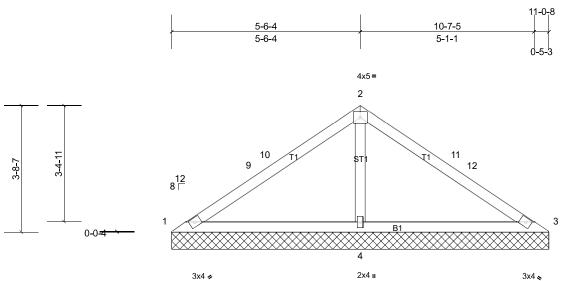
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				· · · ·								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%
	2D 2x4 SP No.2 2D 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3	eathing directly applied	LOAD CASE(S)	Standard								
BOT CHOR	D Rigid ceiling directly	y applied.										
REACTION	3=49/6-6 4=425/6- Max Horiz 1=-34 (LC Max Uplift 4=-11 (LC	,	425									
FORCES		lax. Ten All forces 25	0									
WEBS	(lb) or less except v 2-4=-293/73	vhen shown.										
	2-4=-293/73											
	nced roof live loads hav	e been considered for t	his									
design.			1115									
Vasd=9 B=45ft; MWFRS cantilev right ex for reac DOL=1.		CDL=6.0psf; h=25ft; l; Exp B; Enclosed; Exterior (2) zone; d ; end vertical left and s and forces & MWFRS OL=1.60 plate grip										
	equires continuous botto ss has been designed fo											
chord liv	ve load nonconcurrent v	vith any other live loads										
on the b 3-06-00	uss has been designed oottom chord in all areas tall by 2-00-00 wide wil nd any other members.	s where a rectangle										
6) Provide	mechanical connection plate capable of withsta		nt									
<ul> <li>7) This true Internat R802.10</li> <li>8) This true structure chord a</li> </ul>	ss is designed in accord ional Residential Code : 0.2 and referenced stan ss design requires that al wood sheathing be a nd 1/2" gypsum sheetro om chord	sections R502.11.1 and dard ANSI/TPI 1. a minimum of 7/16" pplied directly to the top	0									
chord a												

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	V02	Valley	1	1	Job Reference (optional)
Carolina Structural Systems, St	Run: 8.42 S Feb 11	2021 Print:	8.620 S Oct	13 2022 MiTek Industries, Inc. Tue Nov 29 16:38:07 Page	

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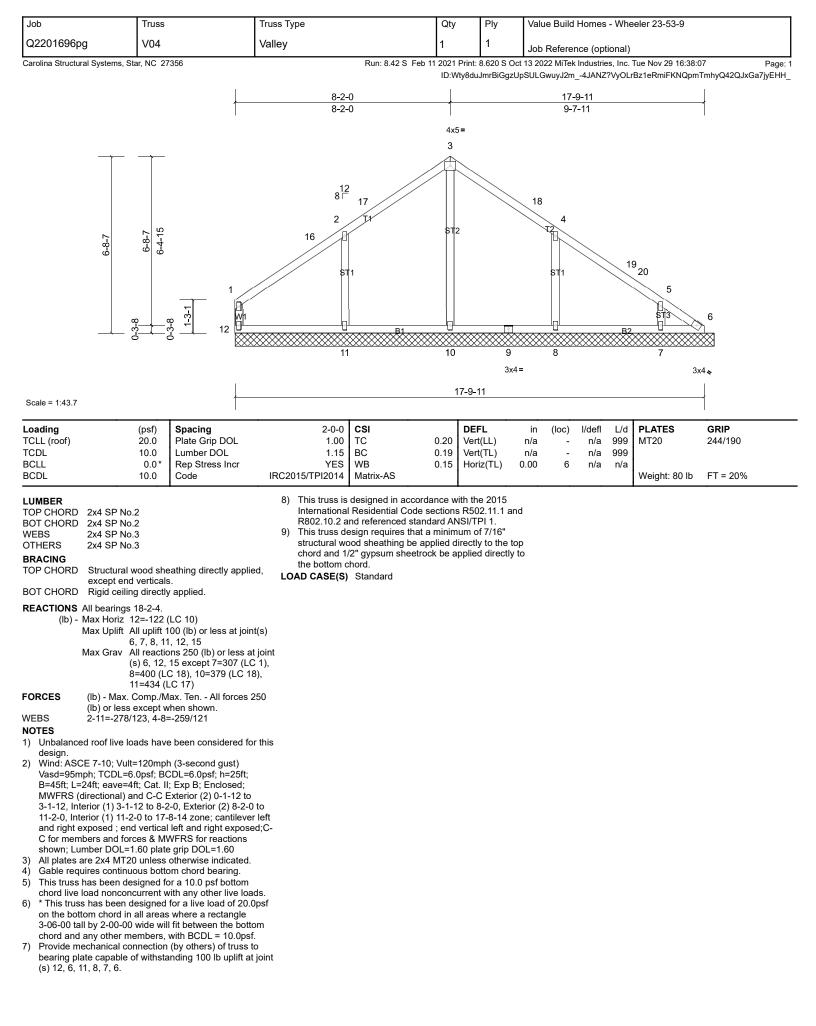


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			I.								I.	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		()		-		,	Weight: 39 lb	FT = 20%
		-									<u> </u>	-
LUMBER			<ol><li>This truss is</li></ol>	designed in acc	ordance w	ith the 2015						
TOP CHORD	2x4 SP No.2		Internationa	I Residential Cod	le sections	s R502.11.1 a	and					
BOT CHORD	2x4 SP No.3			and referenced st								
OTHERS	2x4 SP No.3			esign requires the								
BRACING				ood sheathing be								
TOP CHORD	Structural wood she	eathing directly applied.		/2" gypsum shee	trock be a	pplied direct	ly to					
BOT CHORD			the bottom o									
REACTIONS	<b>o o</b>		LOAD CASE(S)	Standard								
REACTIONS		0-8, (min. 0-1-8), 0-8, (min. 0-1-8),										
		-0-8, (min. 0-1-8)										
	Max Horiz 1=-60 (L0											
		C 22), 3=-33 (LC 21),										
	4=-30 (L0											
	Max Grav 1=78 (LC (LC 1)	21), 3=78 (LC 22), 4=8	321									
FORCES	(lb) - Max. Comp./N	lax. Ten All forces 250	D									
	(lb) or less except v											
TOP CHORD	,	-46/292, 2-10=-45/382,										
	,	2=-46/292, 3-12=-60/28	2									
BOT CHORD	,	268/95										
WEBS	2-4=-647/137											
NOTES												
,	ed roof live loads hav	e been considered for t	nis									
design.	CE 7-10; Vult=120mp	h (2 accord quat)										
	nph; TCDL=6.0psf; B											
	=24ft; eave=4ft; Cat. I											
		Exterior (2) 0-0-6 to 3-0	-6									
		erior (2) 5-6-10 to 8-6-1										
		one; cantilever left and	-,									
right expo	, sed ; end vertical left	and right exposed;C-C										
		FRS for reactions show	n;									
	OL=1.60 plate grip D											
	uires continuous bott											
	has been designed f											
		with any other live loads										
		for a live load of 20.0ps	ST									
	ttom chord in all areas	s where a rectangle										

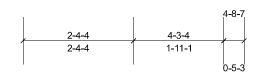
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 33 lb uplift at joint 3 and 30 lb uplift at joint 4. 6)

Lab	1-		T				1 /at 5	11-	1.4.1		1
Job	Truss		Truss Type		Qty	Ply	Value Build	Homes	- whe	eler 23-53-9	
Q2201696pg	V03		Valley		1	1	Job Refere		,		_
Carolina Structural System	is, Star, NC 2	/356		Run: 8.42 S Feb 1							)7 Page: 1 TmiCQ4NQJxGa7jyEHH_
					i	1				15-6-8	3
				7-9-4 7-9-4		с — — — — — — — — — — — — — — — — — — —		- <u>1-5</u> 4-1		r	
				-9-4			7-	+- 1		0-5-3	
					4	×5=					
					3	3					
		-									
				2x4 II			<				
				14			15	2x4 II			
7-1	4-10-11		2	TI	s	Т2	TI	4			
5-2-7	4-1		13	<u>a</u>				J.	16		
		\$	3 <sup>12</sup>	STI1				ST1	$\langle \rangle$		
										$\langle \rangle$	
		- 1 0-0 <del>-4 `</del> 1	/			<u>]</u>					5
		0-0-4						XXX			
			2.4	8 2x4 II	7	/ /x4		6 2x4 <b>I</b> I		04	
			3x4 ≠	2,44 11	2			234		3x4 👟	
Scale = 1:39.8					15-	6-8					
		1		·							-
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC		EFL ert(LL)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11 Ve	ert(TL)	n/a -	n/a	999		
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-AS	0.13 H	oriz(TL)	0.00 5	n/a	n/a	Weight: 62 lb	FT = 20%
LUMBER TOP CHORD 2x4 SP BOT CHORD 2x4 SP OTHERS 2x4 SP BRACING TOP CHORD Structu	No.2 No.3	eathing directly app	structural wo chord and 1/ the bottom c LOAD CASE(S)		lied dired	ctly to the top					
BOT CHORD Rigid c											
REACTIONS All bearin (lb) - Max Hor Max Upl	iz 1=-85 (L0 ift All uplift	C 10) 100 (lb) or less at jo	int(s)								
Max Gra		ons 250 (lb) or less									
		xcept 6=362 (LC 22 C 1), 8=362 (LC 21									
		lax. Ten All forces									
(lb) or l			\$ 250								
WEBS 3-7=-27	ess except v	when shown. 51/110, 4-6=-261/11									
	ess except v 72/0, 2-8=-20	vhen shown. 61/110, 4-6=-261/11	0								
WEBS 3-7=-27 NOTES 1) Unbalanced roof liv design.	ess except v 72/0, 2-8=-20 ve loads hav	vhen shown. 51/110, 4-6=-261/11 e been considered	0								
WEBS 3-7=-27 NOTES 1) Unbalanced roof liv design. 2) Wind: ASCE 7-10; Vasd=95mph; TCD	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; B	vhen shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft	IO for this ;								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof liv design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional)</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp iL=6.0psf; Bi ve=4ft; Cat. I al) and C-C	vhen shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to	IO for this ;								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof liv design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directiona Interior (1) 3-0-6 to 10-9-10, Interior (1)</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi ve=4ft; Cat. I al) and C-C 7-9-10, Extu ) 10-9-10 to	vhen shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti	10 for this ; 3-0-6,								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof live design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right exposed; C-C for m</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; B re=4ft; Cat. I al) and C-C 7-9-10, Extu ) 10-9-10 to ) 10-9-10 to ed; end ver embers and	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f	10 for this ; 3-0-6, ilever								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof lived esign.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eave MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right exposed to 10 to 1</li></ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; B re=4ft; Cat. I al) and C-C 7-9-10, Extu ) 10-9-10 to ) 10-9-10 to ed; end ver embers and	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f	10 for this ; 3-0-6, ilever								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof lindesign.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directiona Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right expose exposed;C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires com</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi e=4ft; Cat. I al) and C-C ) 7-9-10, Ext ) 10-9-10 to ed; end ver embers and umber DOL:	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing.	IO for this ; 3-0-6, ilever ior								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof live design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right exposed; C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond</li> <li>4) This truss has been chord live load non</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; B re=4ft; Cat. I al) and C-C al) and C-C i 7-9-10, Extu ) 10-9-10 to ed; end ver embers and umber DOL tinuous bott n designed f concurrent v	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf bottom vith any other live lo	IO for this ; 3-0-6, llever for pads.								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof lindesign.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directiona Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right expose exposed;C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond this truss has been chord live load non 5) * This truss has been on the bottom chor</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi e=4ft; Cat. 1 al) and C-C 7-9-10, Ext ) 10-9-10 to ied; end ver embers and umber DOL: tinuous bott n designed f concurrent v en designed d in all areas	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf botton vith any other live lo for a live load of 20 s where a rectangle	10 for this ; 3-0-6, ilever for pads. 0.0psf								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof live design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right exposed; C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond</li> <li>4) This truss has been chord live load non 5) * This truss has been on the bottom chord 3-06-00 tall by 2-00 chord and any other the statement of the statem</li></ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi re=4ft; Cat. I al) and C-C 17-9-10, Exti ) 10-9-10 to ved ; end ver embers and umber DOL tinuous bott n designed f concurrent v en designed d in all area: -0-00 wide wi er members.	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf botton vith any other live lo for a live load of 20 s where a rectangle Il fit between the bo	10 for this ; 3-0-6, ilever for pads. J.0psf								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof live design.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right exposed; C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond</li> <li>4) This truss has been chord live load non</li> <li>5) * This truss has been on the bottom choro 3-06-00 tall by 2-00 chord and any othe</li> <li>6) Provide mechanica</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi re=4ft; Cat. 1 al) and C-C 7-9-10, Exti ) 10-9-10 to red; end ver embers and umber DOL tinuous bott in designed f concurrent v en designed d in all areasi 0-00 wide wi er members. al connectior	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL-6.0psf; h=25ft l; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf botton vith any other live lo for a live load of 20 s where a rectangle Il fit between the bo h (by others) of truss	10 for this ; 3-0-6, ilever for nads. 0.0psf ttom s to								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof lindesign.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directiona Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right expose exposed;C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond</li> <li>4) This truss has been chord live load non 5) * This truss has been on the bottom chor 3-06-00 tall by 2-00 chord and any othe</li> <li>6) Provide mechanica bearing plate capal (s) 8, 6.</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi re=4ft; Cat. 1 al) and C-C 7-9-10, Ext ) 10-9-10 to red; end ver embers and umber DOL: tinuous bott n designed d in all area: )-00 wide wi er members. I connectior ble of withsta	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft I; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; canti tical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf botton vith any other live lo for a live load of 22 s where a rectangle I fit between the bo anding 100 lb uplift	10 for this ; 3-0-6, ilever for 0.0psf ftom s to at joint								
<ul> <li>WEBS 3-7=-27</li> <li>NOTES</li> <li>1) Unbalanced roof lindesign.</li> <li>2) Wind: ASCE 7-10; Vasd=95mph; TCD B=45ft; L=24ft; eav MWFRS (directional Interior (1) 3-0-6 to 10-9-10, Interior (1) left and right expose exposed; C-C for m reactions shown; L DOL=1.60</li> <li>3) Gable requires cond 4) This truss has been chord live load none 5) * This truss has been on the bottom chord 3-06-00 tall by 2-00 chord and any othe</li> <li>6) Provide mechanical bearing plate capal</li> </ul>	ess except v 72/0, 2-8=-20 ve loads hav Vult=120mp L=6.0psf; Bi e=4ft; Cat. I al) and C-C 7-9-10, Ext ) 10-9-10 to ed; end ver embers and umber DOL tinuous bott n designed f concurrent v en designed d in all areas )-00 wide wi er members. I connectior ble of withst and in accore ential Code	when shown. 51/110, 4-6=-261/11 e been considered h (3-second gust) CDL=6.0psf; h=25ft I; Exp B; Enclosed; Exterior (2) 0-0-6 to erior (2) 7-9-10 to 15-6-14 zone; cantitical left and right forces & MWFRS f =1.60 plate grip om chord bearing. or a 10.0 psf botton vith any other live lo for a live load of 20 s where a rectangle I fit between the bo h (by others) of truss anding 100 lb uplift dance with the 2015 sections R502.11.1	10 for this ; 3-0-6, ilever for bads. 0.0psf ftom s to at joint								

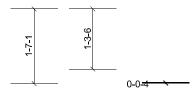


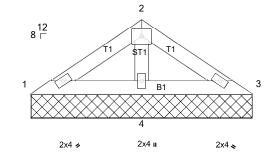
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	V05	Valley	1	1	Job Reference (optional)

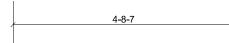
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## Scale = 1:24.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS	(lb/size)	1=51/4-8-7, (min. 0-1-8),
		3=51/4-8-7, (min. 0-1-8),
		4=275/4-8-7, (min. 0-1-8)
	Max Horiz	1=-24 (LC 10)
	Max Uplift	4=-3 (LC 12)
	Max Grav	1=61 (LC 21), 3=61 (LC 22), 4=275

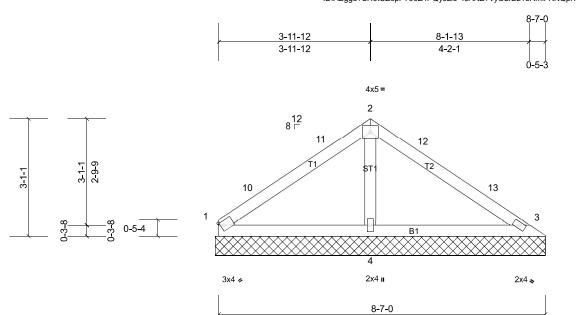
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- OWING: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (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.
- 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 3-06-00 tall by 2-00-00 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 3 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	V06	Valley	1	1	Job Reference (optional)

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Scale = 1:30.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	n/a	()	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	n/a	-	n/a	999		2
BCLL	0.0*	Rep Stress Incr	YES	WB		. ,						
					0.12	Horiz(TL)	0.00	3	n/a	n/a		FT - 00%
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 31 lb	FT = 20%
	<ul> <li>D 2x4 SP No.3 2x4 SP No.3</li> <li>D Structural wood she Rigid ceiling directly</li> <li>S All bearings 8-8-2.</li> <li>Max Horiz 1=-47 (LC Max Uplift All uplift 1 1, 3, 4, 9 Max Grav All reaction</li> </ul>		s) Internationa R802.10.2 a 9) This truss du structural we chord and 1 the bottom c LOAD CASE(S)	ood sheathing b /2" gypsum she chord.	de sections standard AN hat a minim le applied d	R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the	top					
FORCES	( ) , ,	ax. Ten All forces 25	0									
TOROLO	(lb) or less except w		0									
TOP CHOR		=-27/274, 2-11=-23/31	12									
	2-12=-20/319, 12-13	,	· <del>_</del> ,									
WEBS	2-4=-503/94	20/211										
NOTES	21 000/01											
	nced roof live loads have	been considered for t	hio									
/ -	iced foor live loads have		1115									
2) Wind: A: Vasd=99 B=45ft; MWFRS 2-10-13, 3-11-12 cantilever for react	<ul> <li>design.</li> <li>Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-1-3 to 2-10-13, Interior (1) 2-10-13 to 3-11-12, Exterior (2) 3-11-12 to 6-11-12, Interior (1) 6-11-12 to 8-1-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> </ul>											
	equires continuous botto	om chord bearing.										
	ss has been designed fo											
	/e load nonconcurrent w											
	uss has been designed		sf									

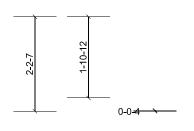
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 3, 4, 3.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 9.

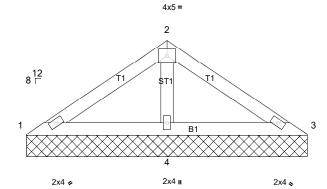
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Wheeler 23-53-9
Q2201696pg	V07	Valley	2	1	Job Reference (optional)

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 Page: 1

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Scale = 1:26.9

TCLL (roof) 2 TCDL 1 BCLL	psf) 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.12 0.21 0.06	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 22 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBERTOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.3OTHERS2x4 SP No.3			LOAD CASE(S)	Standard								
BRACING TOP CHORD Structural wo BOT CHORD Rigid ceiling of		athing directly applied.										
3=4 4=2 Max Horiz 1=3 Max Uplift 4=- Max Grav 1=6	49/6-6- 426/6-6 34 (LC -11 (LC 69 (LC	; 12)	126									
<ul> <li>(ib) or less ex</li> <li>WEBS 2-4=-293/73</li> <li>NOTES</li> <li>1) Unbalanced roof live load design.</li> <li>2) Wind: ASCE 7-10; Vult=1 Vasd=95mph; TCDL=6.0 B=45ft; L=24ft; eave=4ft; MWFRS (directional) and cantilever left and right exposed; C-C for me for reactions shown; Lum DOL=1.60</li> <li>3) Gable requires continuou</li> <li>4) This truss has been desig chord live load nonconcut</li> <li>5) * This truss has been desig on the bottom chord in all 3-06-00 tall by 2-00-00 w chord and any other mem</li> <li>6) Provide mechanical conn bearing plate capable of 4.</li> <li>7) This truss is designed in a International Residential R802.10.2 and reference</li> <li>8) This truss design requires</li> </ul>	<ul> <li>(b) or less except when shown.</li> <li>WEBS 2.4=.293/73</li> <li>Wortes</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=47t; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) Gable requires continuous bottom chord bearing.</li> <li>4) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4.</li> <li>7) This truss is designed for a acordance with the 2015 International Resident acces on sR02.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>8) This truss design requires that a minimum of 7/16" structural wood sheeting be apple directly to the top</li> </ul>											