

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:24

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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	1.15	TC	0.89	Vert(LL)	-0.37	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.72	13-14	>686	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH	1						Weight: 278 lb	FT = 20%

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1, B3:2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing. Except:

WEBS 2x4 SP No.3 6-0-0 oc bracing: 15-16

REACTIONS (lb/size) 10=1805/0-3-8, (min. 0-2-3), 19=1805/0-3-8, (min. 0-2-3) WEBS 1 Row at midpt 3-19, 7-10

Max Horiz 19=-167 (LC 8)
Max Uplift 10=-188 (LC 11

Max Uplift 10=-188 (LC 11), 19=-188 (LC 10) Max Grav 10=1865 (LC 2), 19=1865 (LC 2)

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

TOP CHORD 2-3=-605/268, 3-4=-2954/698, 4-5=-2660/682, 5-6=-2660/682, 6-7=-2954/698, 7-8=-605/268, 2-19=-503/280, 8-10=-503/280

BOT CHORD 18-19=-403/2602, 18-20=-229/2414, 17-20=-229/2414, 17-21=-229/2414, 14-21=-229/2414, 14-22=-50/1974, 22-23=-50/1974

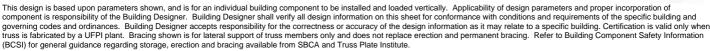
18-19=-403/2602, 18-20=-229/2414, 17-20=-229/2414, 17-21=-229/2414, 14-21=-229/2414, 14-22=-50/1974, 22-23=-50/1974, 13-23=-50/1974, 13-24=-229/2414, 12-24=-229/2414, 12-24=-229/2414, 13-24=-229

12-25=-229/2414, 11-25=-229/2414, 10-11=-403/2600 WEBS 5-15=-217/1118, 13-15=-271/904, 6-13=-605/370, 6-11

5-15=-217/1118, 13-15=-271/904, 6-13=-605/370, 6-11=-156/390, 14-16=-271/904, 5-16=-217/1118, 4-14=-605/370, 4-18=-156/390, 3-19=-2542/369, 7-10=-2542/369

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 19 and 188 lb uplift at joint 10.
- 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/



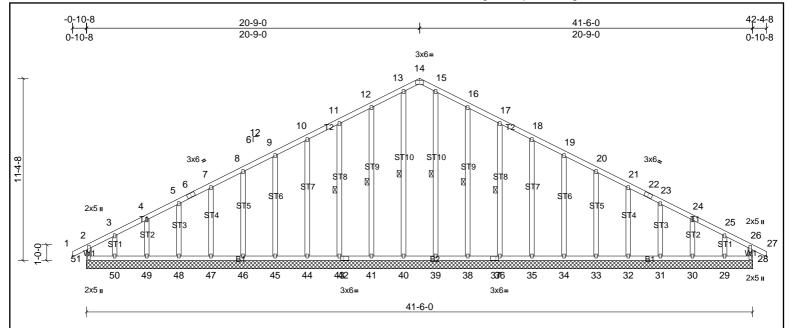






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[14:0-3-0,Edge], [37:0-2-0,0-1-8], [42:0-2-0,0-1-8] Plate Offsets (X, Y):

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR						1	Weight: 309 lb	FT = 20%

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

WFBS 1 Row at midpt 13-40, 15-39, 12-41, 11-43, 16-38, **OTHERS** 2x4 SP No.3 17-36

REACTIONS All bearings 41-6-0 (lb) - Max Horiz 51=167 (LC 9)

> All uplift 100 (lb) or less at joint(s) 28, 30, 31, 32, 33, 34, 35, 36, 38, 41, 43, 44, 45, 46, 47, 48, 49, 51 except 29=-153 (LC 11), 50=-175 (LC 10) Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 28, 29, 30, 31, 32, 33, 34, 35, 36,

38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 51 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES TOP CHORD 10-11=-102/259, 11-12=-118/307, 12-13=-142/374, 13-14=-125/322, 14-15=-125/322, 15-16=-142/374, 16-17=-118/307, 17-18=-102/259

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only
- 4) All plates are 2x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 9) 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) 51, 28, 41, 43, 44, 45, 46, 47, 48, 10 49, 38, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 50=175, 29=153.
- 11) 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.



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

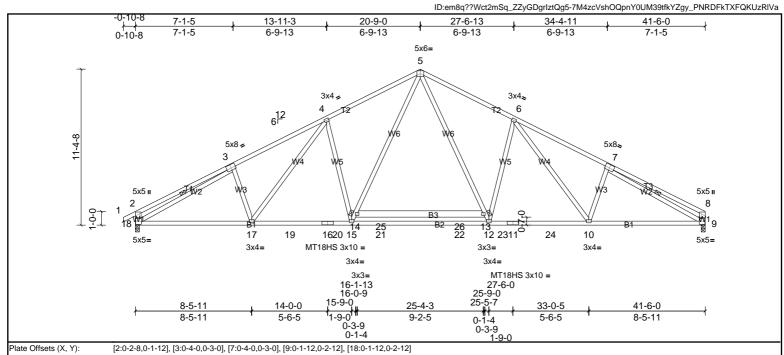
This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute





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LUMBER **BRACING**

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied, except end verticals. BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1, B3:2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing. Except:

2-0-0 CSI

1.15 TC

1.15

YES WB

IRC2015/TPI2014

вс

Matrix-MSH

2x4 SP No.3 WEBS 6-0-0 oc bracing: 13-14

WEBS 1 Row at midpt 3-18, 7-9 REACTIONS (lb/size) 9=1743/0-3-8, (min. 0-2-2), 18=1806/0-3-8, (min. 0-2-3)

18=172 (LC 10) 9=-165 (LC 11), 18=-188 (LC 10) Max Unlift

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Grav 9=1813 (LC 2), 18=1865 (LC 2) (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

FORCES TOP CHORD $2-3=-605/268,\ 3-4=-2955/699,\ 4-5=-2661/682,\ 5-6=-2661/682,\ 6-7=-2965/704,\ 7-8=-483/193,\ 2-18=-503/280,\ 8-9=-371/177$

17-18=-440/2601, 17-19=-266/2415, 16-19=-266/2415, 16-20=-266/2415, 15-20=-266/2415, 15-21=-87/1975, 21-22=-87/1975, 12-22=-87/1975, 12-23=-266/2415, 11-23=-266/2415, 15-21=-87/1975, 12-23=-87/1975, 12-23=-266/2415, 11-23=-266/2 BOT CHORD

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.89

0.87

0.98

in

-0.37

-0.72

0.15

(loc)

12-15

12-15

9

I/defI

>999

>685

n/a

L/d

240

180

n/a

11-24=-266/2415, 10-24=-266/2415, 9-10=-446/2611 WEBS

5-13-217/1118, 12-13-271/905, 6-12-605/370, 6-10-162/402, 14-15-271/904, 5-14-217/1118, 4-15-605/370, 4-17-156/390, 3-18-2543/369, 7-9-2667/450

NOTES

Loading

TCDL

BCLL

BCDI

TCLL (roof)

Unbalanced roof live loads have been considered for this design.

(psf)

20.0

10.0

0.0

10.0

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated

Max Horiz

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 18 and 165 lb uplift at joint 9. 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/ 7)



PLATES

MT18HS

Weight: 277 lb

MT20

GRIP

244/190

244/190

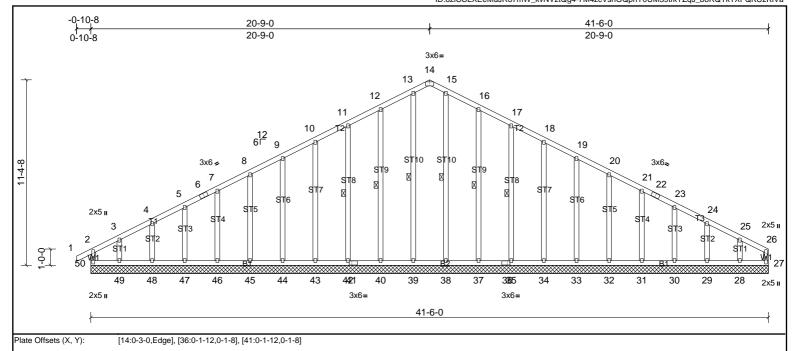
FT = 20%

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	l						Weight: 308 lb	FT = 20%

LUMBER BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

 BOT CHORD
 2x4 SP No.2
 TOP CHORD

 WEBS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 OTHERS
 2x4 SP No.3
 WEBS
 1 Row at midpt
 13-39, 15-38, 12-40, 11-42, 16-37, 17-35

 17-35
 17-35
 17-36
 17-36

REACTIONS All bearings 41-6-0.

(lb) - Max Horiz 50=172 (LC 10)

Max Uplift
All uplift 100 (lb) or less at joint(s) 27, 29, 30, 31, 32, 33, 34, 35, 37, 40, 42, 43, 44, 45, 46, 47, 48, 50 except 28=-155 (LC 11), 49=-177 (LC 10)
Max Grav
All reactions 250 (lb) or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 42, 34, 44, 54, 64, 77, 88, 49, 50

37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50

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

TOP CHORD 10-11=-106/256, 11-12=-123/304, 12-13=-147/371, 13-14=-128/320, 14-15=-128/320, 15-16=-147/371, 16-17=-123/304, 17-18=-106/256

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; b=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 2x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 50, 27, 40, 42, 43, 44, 45, 46, 47, 48, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 49=176, 28=154.
- 11) 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.



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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.





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20-10-8 4-0-12 10-0-0 15-11-4 20-0-0 4-0-12 5-11-4 5-11-4 4-0-12 0-10-8 5x6= 6 5 12¹²

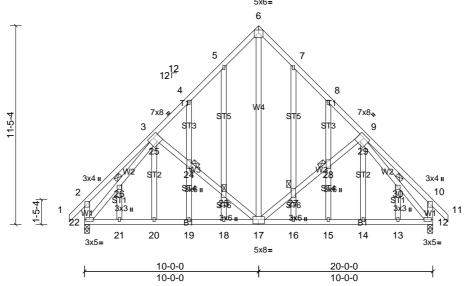


Plate Offsets (X, Y): [3:0-4-0,0-1-12], [9:0-4-0,0-1-12], [17:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	1	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.07	18-19	>999	240	MT20	244/190
TCDL	18.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.11	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH	i						Weight: 201 lb	FT = 20%
				1								

BRACING

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

BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS **JOINTS** 1 Brace at Jt(s): 23, 24, 26, 27, 28, **OTHERS** 2x4 SP No.3

REACTIONS 12=1024/0-3-8, (min. 0-1-8), 22=1024/0-3-8, (min. 0-1-8) (lb/size)

Max Horiz 22=328 (LC 9)

Max Uplift 12=-90 (LC 10), 22=-90 (LC 11)

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

TOP CHORD 2 - 3 - 352/202, 3 - 4 - 718/177, 4 - 5 - 718/250, 5 - 6 - 747/335, 6 - 7 - 747/335, 7 - 8 - 718/250, 8 - 9 - 718/177, 9 - 10 - 352/202, 2 - 22 - 392/223, 10 - 12 - 391/223, 10 - 391/223, 10 -**BOT CHORD** 21-22=-136/744, 20-21=-136/744, 19-20=-136/744, 18-19=-136/744, 17-18=-136/744, 16-17=-4/610, 15-16=-4/610, 14-15=-4/610, 13-14=-4/610, 12-13=-4/610WFBS

6-17 = -374/803, 17-27 = -350/244, 27-28 = -344/232, 9-28 = -314/221, 3-24 = -314/221, 23-24 = -344/231, 17-23 = -350/243, 22-26 = -697/11, 25-26 = -803/20, 3-25 = -319/35, 9-29 = -319/35,

29-30=-803/19, 12-30=-697/10, 20-25=-28/253, 14-29=-29/253

NOTES

LUMBER

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)
- 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 7)
- the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 22 and 90 lb uplift at joint 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. 9)



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

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ID:puJ_JmfWIR9ueguh54vFncztQfw-3kBk1Buyw14VoKdkAav7qze6nn7HvAr1xrkXONzRIVY 5-1-12 10-0-0 14-10-4 20-0-0 5-1-12 4-10-4 5-1-12 4-10-4 5x6= 3

12 3x6 2 5x5 5x5 5 11 12 9 8 16 7 17 13 14 15 18 M18AHS 5x10 II M18AHS 9x12 II M18AHS 5x10 II 5x10 II

HUS26 HUS26 HUS26 HUS26 HUS26 HUS26 HUS26 HUS26 5-1-12 10-0-0 14-10-4 20-0-0 5-1-12 4-10-4 4-10-4 5-1-12

TOP CHORD

BOT CHORD

Plate Offsets (X, Y): [1:0-1-0,0-2-4], [3:0-3-0,0-1-12], [5:0-1-0,0-2-4], [8:0-4-12,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.15	8-9	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		•					Weight: 491 lb	FT = 20%
						1						

LUMBER **BRACING**

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

WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2, W1:2x6 SP No.2

REACTIONS (lb/size) 6=8578/0-3-8, (min. 0-3-7), 10=8490/0-3-8, (min. 0-3-7)

10=299 (LC 5) Max Horiz Max Unlift 6=-886 (LC 8), 10=-877 (LC 9) Max Grav 6=8798 (LC 2), 10=8706 (LC 2)

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

TOP CHORD 1-2=-8458/911, 2-3=-6229/802, 3-4=-6229/802, 4-5=-8452/910, 1-10=-7310/769, 5-6=-7297/768

10-11=-370/1068, 11-12=-370/1068, 9-12=-370/1068, 9-13=-662/5912, 13-14=-662/5912, 8-14=-662/5912, 8-15=-551/5908, 15-16=-551/5908, 7-16=-551/5908, 7-17=-137/905, BOT CHORD

17-18=-137/905, 6-18=-137/905

3-8=-990/8431, 4-8=-2528/469, 4-7=-311/3343, 2-8=-2535/470, 2-9=-312/3353, 1-9=-475/5191, 5-7=-474/5158

WEBS NOTES

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections 2) have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 4)
- exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between 7) the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 877 lb uplift at joint 10 and 886 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 10 Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 8=-1723 (B), 11=-1723 (B), 12=-1723 (B), 13=-1723 (B), 14=-1723 (B), 15=-1723 (B), 16=-1723 (B), 17=-1723 (B), 18=-1723 (B



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

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





Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF		
72314097	C1	Truss	3	1	Job Reference (optional)		
UFP Mid Atlantic LLC, 5631 S.	NC 62, Burlington, NC, Micah Clay	Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:27					

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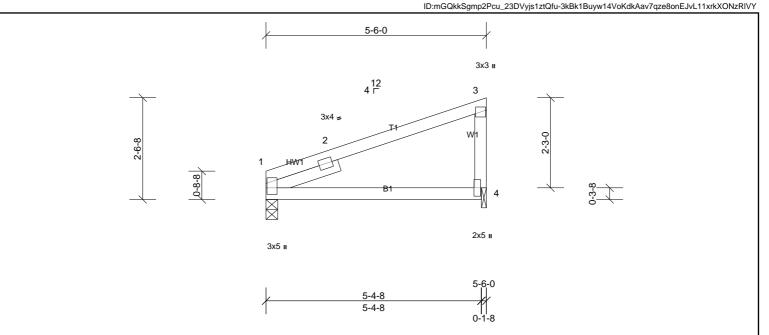


Plate Offsets (X, Y):	late Offsets (X, Y): [1:0-2-0,0-0-5], [4:0-2-8,0-0-4]														
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP			
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.03	4-7	>999	240	MT20	244/190			
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	4-7	>999	180					
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	1	n/a	n/a					
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 22 lb	FT = 20%			

BOT CHORD

LUMBER **BRACING** TOP CHORD

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

SLIDER Left 2x4 SP No.3 -- 1-11-0

REACTIONS 1=214/0-3-8, (min. 0-1-8), 4=214/0-1-8, (min. 0-1-8) (lb/size) Max Horiz 1=90 (LC 9)

2x4 SP No.3

Max Uplift 1=-36 (LC 6), 4=-53 (LC 10)

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

NOTES

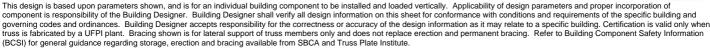
WEBS

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS
- for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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 3)
- 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
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 53 lb uplift at joint 4.
- 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



Structural wood sheathing directly applied or 5-6-0 oc purlins, except end

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

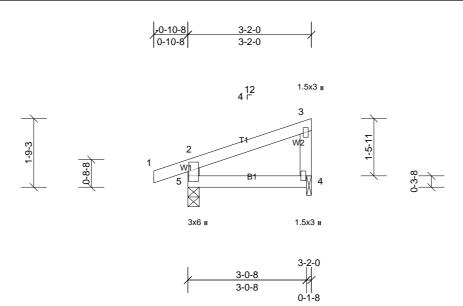




Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	C3	Truss	9	1	Job Reference (optional)

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Loading ((psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 1	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 13 lb	FT = 20%

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end BOT CHORD 2x4 SP No.2 verticals **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3

REACTIONS (lb/size) 4=104/0-1-8, (min. 0-1-8), 5=187/0-3-8, (min. 0-1-8)

Max Horiz 5=67 (LC 7)

Max Uplift 4=-26 (LC 10), 5=-67 (LC 6)

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 5 and 26 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/

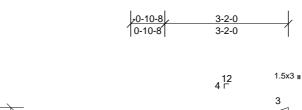


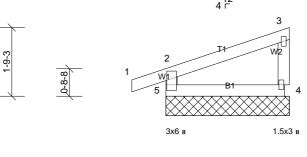


Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	C3G	Truss	2	1	Job Reference (optional)

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		3-2-0
	3-0-8	
1	3-0-8	11
		0-1-8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	ļ						Weight: 13 lb	FT = 20%

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end BOT CHORD 2x4 SP No.2 verticals **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3

REACTIONS (lb/size) 4=104/3-2-0, (min. 0-1-8), 5=187/3-2-0, (min. 0-1-8)

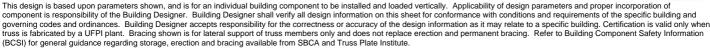
Max Horiz 5=67 (LC 7)

Max Uplift 4=-26 (LC 10), 5=-67 (LC 6)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only.
- 3) Gable requires continuous bottom chord bearing 4)
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 67 lb uplift at joint 5 and 26 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/





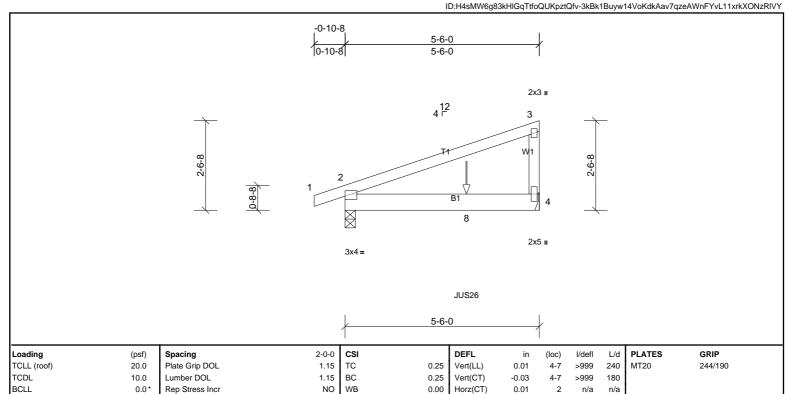


Job Truss Type PBS\SMITHFIELD FC RH ROOF Truss Qty Ply C4L 2 72314097 Truss 1 Job Reference (optional)

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LUMBER BRACING

TOP CHORD 2x4 SP No.2

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end BOT CHORD 2x6 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing WEBS 2x4 SP No.3

Matrix-MSH

IRC2015/TPI2014

REACTIONS (lb/size) 2=382/0-3-8, (min. 0-1-8), 4=409/ Mechanical, (min. 0-1-8)

> Max Horiz 2=94 (LC 7)

10.0

2=-101 (LC 4), 4=-97 (LC 8) Max Uplift

Code

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

NOTES

BCDL

2-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)
- exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- * 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 5) the bottom chord and any other members
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 4 and 101 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 3-5-4 from the left end to connect truss(es) to back face of bottom chord
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 4-5=-20

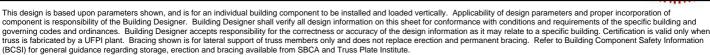
Concentrated Loads (lb)

Vert: 8=-310 (B)



Weight: 51 lb

FT = 20%





Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	C5	Truss	2	1	Job Reference (optional)

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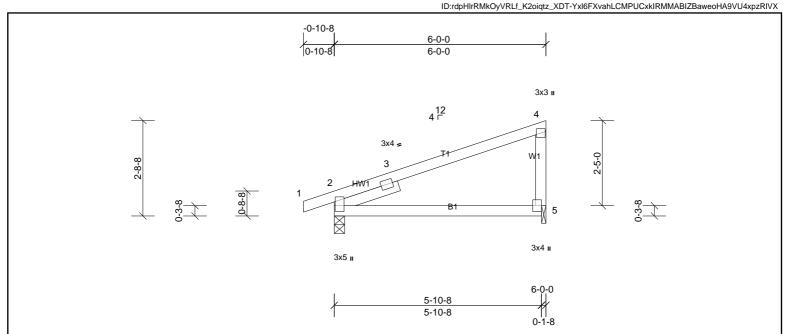


Plate Offsets (X, Y):	e Offsets (X, Y): [2:0-3-5,0-0-5], [5:Edge,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.04	5-8	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.08	5-8	>923	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 26 lb	FT = 20%	

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 -- 1-11-0

REACTIONS 2=291/0-3-8, (min. 0-1-8), 5=230/0-1-8, (min. 0-1-8) (lb/size) Max Horiz 2=104 (LC 9)

Max Uplift 2=-78 (LC 6), 5=-56 (LC 10)

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

TOP CHORD 2-3=-258/0

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS 1) 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 3) the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 56 lb uplift at joint 5.
- 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.



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





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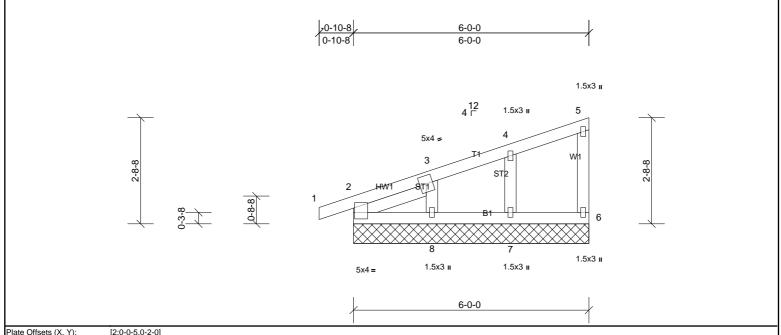


Plate Offsets	(X, Y):	[2:0-0-5	0-2-01

Loading	(psf)	Spacing	2-0-0	CSI	1	DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	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		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH	i						Weight: 29 lb	FT = 20%
											1	

LUMBER BRACING

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-11-14

REACTIONS All bearings 6-0-0.

(lb) - Max Horiz 2=104 (LC 9), 9=104 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 7, 8, 9 All reactions 250 (lb) or less at joint(s) 2, 6, 7, 8, 9

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

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS 1) for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between
- the bottom chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8, 7, 2.
- 8) 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.



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

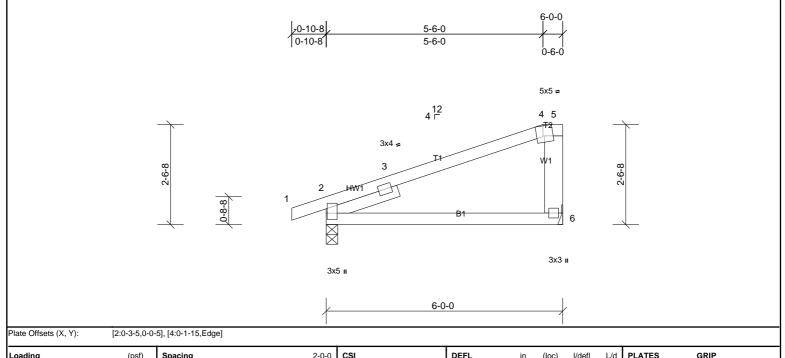
Rigid ceiling directly applied or 10-0-0 oc bracing.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF	
72314097	C6	Truss	1	1	Job Reference (optional)	
UFP Mid Atlantic LLC, 5631 S. N	NC 62, Burlington, NC, Micah Clay	Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:28	Page: 1			

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 27 lb	FT = 20%
		=										

BOT CHORD

LUMBER **BRACING** TOP CHORD

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

SLIDER Left 2x4 SP No.3 -- 1-11-0

REACTIONS 2=287/0-3-8, (min. 0-1-8), 6=227/ Mechanical, (min. 0-1-8) (lb/size)

Max Horiz 2=99 (LC 9)

Max Uplift 2=-78 (LC 6), 6=-53 (LC 6)

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

TOP CHORD 2-3=-254/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS 2) for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 5) the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 6 and 78 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 7)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

verticals, and 2-0-0 oc purlins: 4-

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





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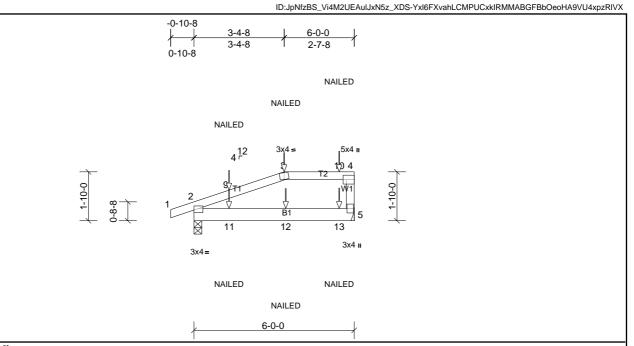


Plate Offsets (X, Y): [4:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.02	5-8	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	5-8	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 26 lb	FT = 20%	

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP No.2

verticals, and 2-0-0 oc purlins: 3-BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 3 WEBS

REACTIONS (lb/size) 2=347/0-3-8, (min. 0-1-8), 5=330/ Mechanical, (min. 0-1-8)

Max Horiz 2=65 (LC 7)

2=-88 (LC 4), 5=-59 (LC 5) Max Uplift

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

NOTES

- Unbalanced roof live loads have been considered for this design. 1)
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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 59 lb uplift at joint 5 and 88 lb uplift at joint 2. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 8)
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines. 9)
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 5-6=-20

Concentrated Loads (lb)

Vert: 3=-18 (F), 9=-24 (F), 10=-35 (F), 11=-18 (F), 12=-28 (F), 13=-34 (F)

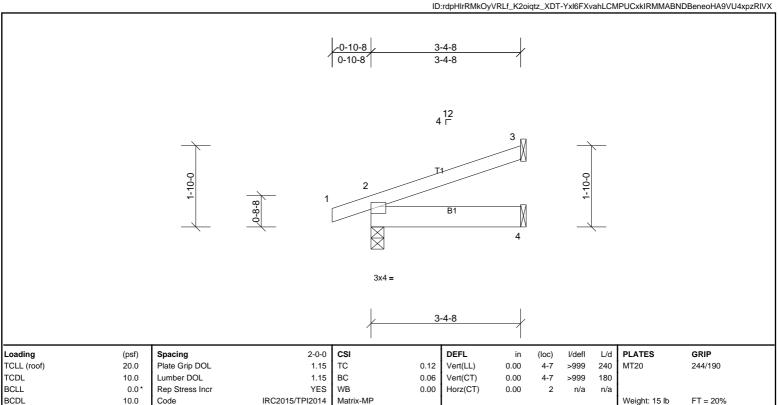


Structural wood sheathing directly applied or 6-0-0 oc purlins, except end



Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF	
72314097	C8	Truss	2	1	Job Reference (optional)	
UFP Mid Atlantic LLC, 5631 S. N	NC 62, Burlington, NC, Micah Clay	rton Run: 8.62 S Se	p 22 2022 Pi	int: 8.620 S	Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:28	Page: 1

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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins. **BOT CHORD** 2x6 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=192/0-3-8, (min. 0-1-8), 3=78/ Mechanical, (min. 0-1-8), 4=48/ Mechanical, (min. 0-1-8)

Max Horiz 2=60 (LC 6)

2=-56 (LC 6), 3=-42 (LC 10) Max Uplift

2=192 (LC 1), 3=78 (LC 1), 4=68 (LC 3) Max Grav

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3 and 56 lb uplift at joint 2.
- 5) 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	PBS\SMITHFIELD FC RH ROOF	
72314097	C9	Truss	1	1	Job Reference (optional)	
UFP Mid Atlantic LLC, 5631 S. N	NC 62, Burlington, NC, Micah Clay	rton Run: 8.62 S Se	o 22 2022 Pi	int: 8.620 S	Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:29	Page: 1

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-0-10-8 1-3-0 3-4-8 4 ¹² 3x10 II 3x4 = 3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 15 lb	FT = 20%

3-4-8

BOT CHORD

LUMBER BRACING TOP CHORD

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

WEBS 2x4 SP No.3

> (lb/size) 2=189/0-3-8, (min. 0-1-8), 4=84/ Mechanical, (min. 0-1-8), 5=38/

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

Mechanical, (min. 0-1-8) 2=34 (LC 9)

Max Horiz Max Uplift 2=-66 (LC 6), 4=-39 (LC 7)

Max Grav

2=189 (LC 1), 4=84 (LC 1), 5=66 (LC 3)

FORCES NOTES

REACTIONS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 5)
- the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 66 lb uplift at joint 2.
- 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/
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Structural wood sheathing directly applied or 3-4-8 oc purlins, except end

verticals, and 2-0-0 oc purlins: 3-4.
Rigid ceiling directly applied or 10-0-0 oc bracing.





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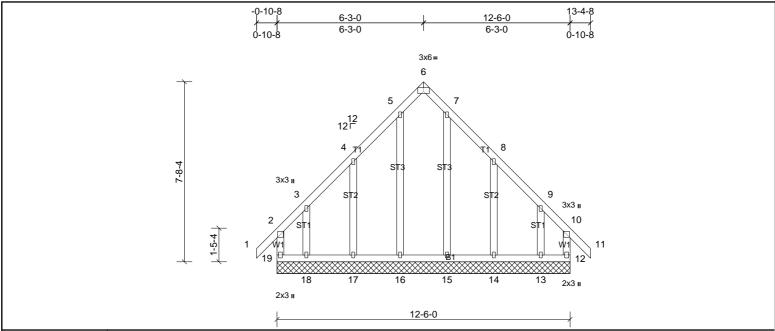


Plate Offsets (X, Y): [6:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 89 lb	FT = 20%

LUMBER **BRACING**

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

REACTIONS All bearings 12-6-0

19=-231 (LC 8) (lb) - Max Horiz

> All uplift 100 (lb) or less at joint(s) except 12=-140 (LC 7), 13=-236 (LC 11), 14=-143 (LC 11), 17=-142 (LC 10), 18=-239 (LC 10), 19=-154 (LC 6) Max Uplift Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 19 except

18=254 (LC 8)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only
- 4) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing 5)
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 154 lb uplift at joint 19, 140 lb uplift at joint 12, 142 lb uplift 10 at joint 17, 239 lb uplift at joint 18, 143 lb uplift at joint 14 and 235 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 11) TPI 1.



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

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

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute





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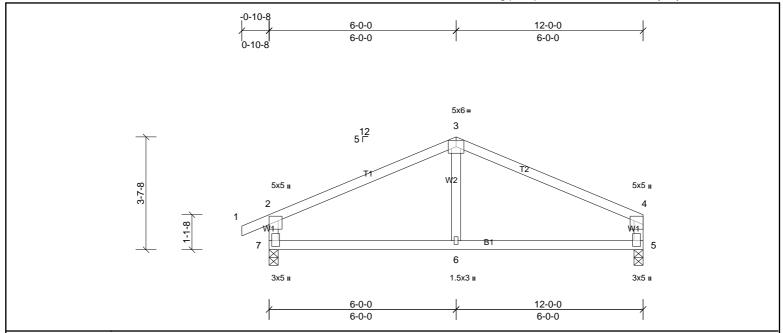


	Plate Offsets (X, Y):	[2:0-2-8,0-1-12], [5:0-2-4,0-0-8], [7:0-2-4,0-1-0]
П		[,- :], [,], [,- : -]

oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
CLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	6-7	>999	180		
CLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	5	n/a	n/a		
CDL	10.0	Code	IRC2015/TPI2014	Matrix-MR	i						Weight: 45 lb	FT = 20%
	CLL (roof) CDL CLL	CLL (roof) 20.0 CDL 10.0 CLL 0.0*	CLL (roof) 20.0 Plate Grip DOL CDL 10.0 Lumber DOL CLL 0.0* Rep Stress Incr	CLL (roof) 20.0 Plate Grip DOL 1.15 CDL 10.0 Lumber DOL 1.15 CLL 0.0* Rep Stress Incr YES	CLL (roof) 20.0 Plate Grip DOL 1.15 TC CDL 10.0 Lumber DOL 1.15 BC CLL 0.0* Rep Stress Incr YES WB	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 CDL 10.0 Lumber DOL 1.15 BC 0.43 CLL 0.0* Rep Stress Incr YES WB 0.08	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT)	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.06 CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.13 CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT) 0.01	CLL (roof) 20.0 DL Plate Grip DOL Lumber DOL 1.15 DL TC 0.92 Vert(LL) -0.06 6-7 cl CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.13 6-7 cl CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT) 0.01 5	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.06 6-7 >999 CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.13 6-7 >999 CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT) 0.01 5 n/a	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.06 6-7 >999 240 CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.13 6-7 >999 180 CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT) 0.01 5 n/a n/a	CLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Vert(LL) -0.06 6-7 >999 240 MT20 CDL 10.0 Lumber DOL 1.15 BC 0.43 Vert(CT) -0.13 6-7 >999 180 CLL 0.0* Rep Stress Incr YES WB 0.08 Horz(CT) 0.01 5 n/a n/a

LUMBER BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

REACTIONS (lb/size) 5=466/0-3-8, (min. 0-1-8), 7=532/0-3-8, (min. 0-1-8) Max Horiz 7=37 (LC 7)

5=-64 (LC 11), 7=-87 (LC 10) Max Uplift

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

 $2\hbox{-}3\hbox{-}532/193,\ 3\hbox{-}4\hbox{-}527/191,\ 2\hbox{-}7\hbox{-}-449/244,\ 4\hbox{-}5\hbox{-}-375/178$

BOT CHORD 6-7=-71/415, 5-6=-71/415

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 7 and 64 lb uplift at joint 5.
- 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

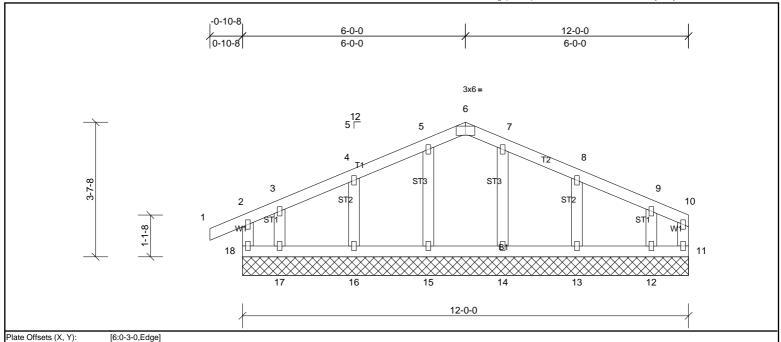


Structural wood sheathing directly applied or 6-0-0 oc purlins, except end





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[6:0-3-0,Edge]

Loa	ding	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCL	L (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCE	DL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCL	L	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BC	DL	10.0	Code	IRC2015/TPI2014	Matrix-MR	i						Weight: 57 lb	FT = 20%

BOT CHORD

LUMBER BRACING TOP CHORD

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

REACTIONS All bearings 12-0-0. (lb) - Max Horiz 18=37 (LC 9)

> Max Uplift All uplift 100 (lb) or less at joint(s) 11, 12, 13, 14, 15, 16, 17, 18 Max Grav All reactions 250 (lb) or less at joint(s) 11, 12, 13, 14, 15, 16, 17, 18

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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS 2) for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only
- All plates are 1.5x3 MT20 unless otherwise indicated. 4)
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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) 18, 11, 15, 14, 16, 17, 13, 12. 10)
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/



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

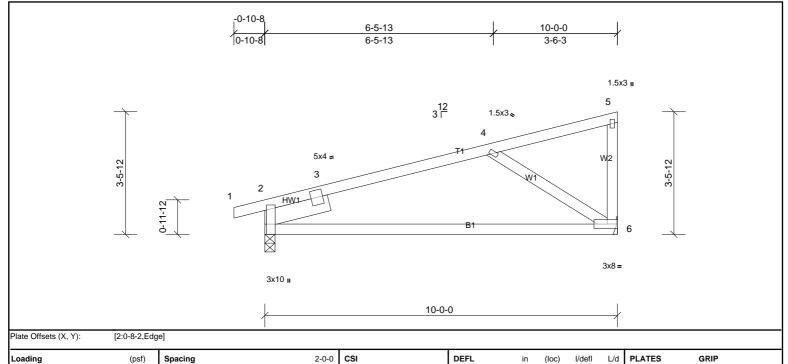
Rigid ceiling directly applied or 6-0-0 oc bracing.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute





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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.22	6-9	>550	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.44	6-9	>270	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH	l						Weight: 46 lb	FT = 20%
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 46 lb	FT = 20%

LUMBER BRACING TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS

SLIDER Left 2x6 SP No.2 -- 1-11-0

REACTIONS 2=449/0-3-8, (min. 0-1-8), 6=392/ Mechanical, (min. 0-1-8) (lb/size) 2=128 (LC 9) Max Horiz

Max Uplift 2=-110 (LC 6), 6=-90 (LC 10)

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

TOP CHORD 2-3=-756/0, 3-4=-435/218

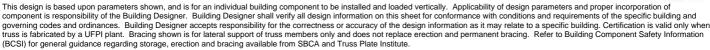
BOT CHORD 2-6=-209/422 WFBS 4-6=-468/273

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 90 lb uplift at joint 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/ 5)



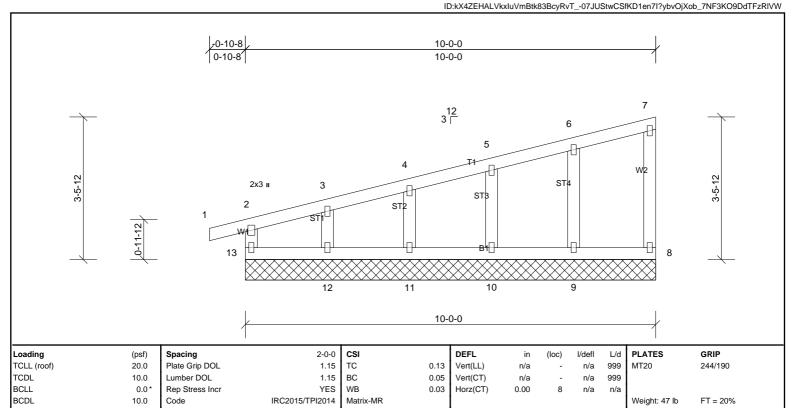
Structural wood sheathing directly applied or 5-8-1 oc purlins, except end





Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF	
72314097	G1G	Truss	1	1	Job Reference (optional)	
UFP Mid Atlantic LLC, 5631 S. N	JFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton				Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:16:29	Page: 1

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LUMBER BRACING TOP CHORD

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

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

REACTIONS All bearings 10-0-0.

(lb) - Max Horiz 13=136 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 11, 12, 13 Max Grav All reactions 250 (lb) or less at joint(s) 8, 9, 10, 11, 12, 13

NOTES

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

FORCES

7)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. 2)
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web)
- 6) Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8, 11, 10, 12, 9.
- 10) 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.



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

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

verticals

BOT CHORD



Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	V1	Truss	1	1	Job Reference (optional)

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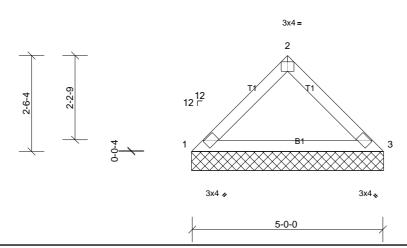


Plate Offsets (X, \	Y):	[2:0-2-0,Edge]
Plate Offsets (X,	Y):	[2:0-2-0,Eage]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 17 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=202/5-0-8, (min. 0-1-8), 3=202/5-0-8, (min. 0-1-8)

Max Horiz 1=-60 (LC 6)

Max Uplift 1=-21 (LC 10), 3=-21 (LC 11)

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

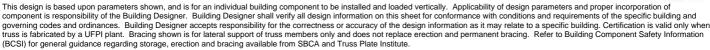
1-2=-269/61

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing. 3)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4)
- 5) * 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 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 8) 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.



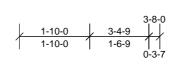




Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	V2	Truss	1	1	Job Reference (optional)

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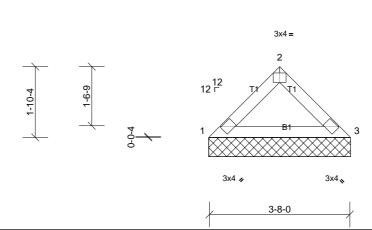


Plate Offsets (X, Y):	[2:0-2-0,Edge]
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-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	1	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER **BRACING**

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

REACTIONS (lb/size) 1=148/3-8-8, (min. 0-1-8), 3=148/3-8-8, (min. 0-1-8)

Max Horiz 1=43 (LC 7)

Max Uplift 1=-16 (LC 10), 3=-16 (LC 11)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 16 lb uplift at joint 1 and 16 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3. 7)
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/



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

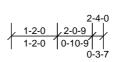
Rigid ceiling directly applied or 10-0-0 oc bracing.



Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH ROOF
72314097	V3	Truss	1	1	Job Reference (optional)

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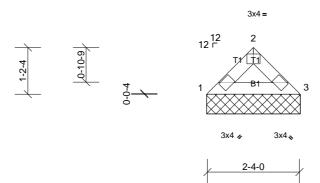


Plate Offsets (X, Y):	Plate Offsets (X, Y): [2:0-2-0,Edge]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=95/2-4-8, (min. 0-1-8), 3=95/2-4-8, (min. 0-1-8)

Max Horiz 1=-25 (LC 6)

Max Uplift 1=-11 (LC 10), 3=-11 (LC 11)

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 11 lb uplift at joint 1 and 11 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3. 7)
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/







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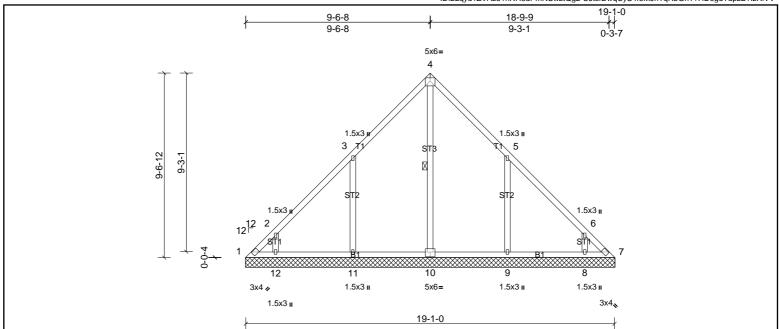


Plate Offsets	(X, Y):	[1	0:	0	-3	-0	0,	-3-	01	

	Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
	TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
	TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
	BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	7	n/a	n/a		
۱	BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 98 lb	FT = 20%

LUMBER BRACING

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 OTHERS WEBS 1 Row at midpt

REACTIONS

All bearings 19-1-8. (lb) - Max Horiz 1=242 (LC 9)

All uplift 100 (lb) or less at joint(s) 7 except 1=-117 (LC 8), 8=-127 (LC 11), Max Unlift

9=-258 (LC 11), 11=-258 (LC 10), 12=-138 (LC 10)

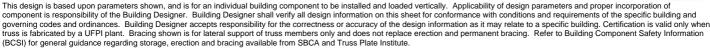
All reactions 250 (lb) or less at joint(s) 1, 7 except 8=275 (LC 18), 9=462 (LC 18), 10=398 (LC 20), 11=461 (LC 17), 12=286 (LC 17) Max Grav

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-330/212, 6-7=-287/188

WEBS 3-11=-362/304, 2-12=-279/227, 5-9=-362/304, 6-8=-279/223

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=117, 11=257, 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/



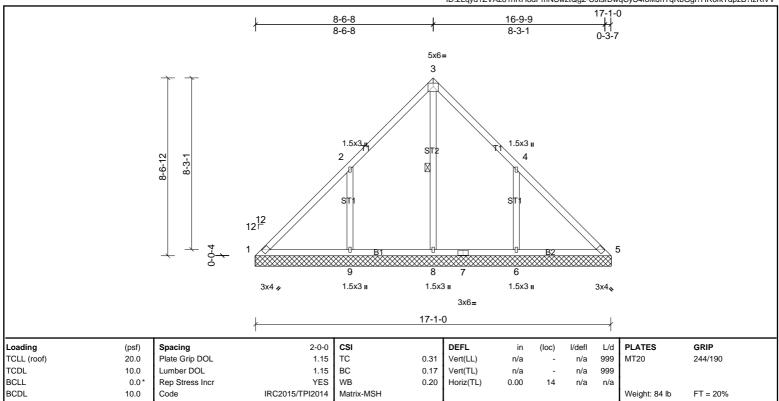






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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SP No.3 WEBS 1 Row at midpt

REACTIONS All bearings 17-1-8

> (lb) - Max Horiz 1=-216 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 5, 14 except 1=-115 (LC 8), 6=-275 (LC 11), 9=-283 (LC 10)

All reactions 250 (lb) or less at joint(s) 1, 5, 14 except 6=511 (LC 18), Max Grav

8=727 (LC 20), 9=509 (LC 17)

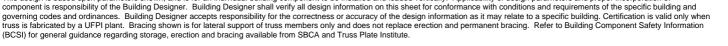
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-165/422, 2-3=-42/349, 3-4=-42/333, 4-5=-46/324

WEBS 3-8=-523/0, 2-9=-381/308, 4-6=-381/306

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS 2) for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing. 3)
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 5 except (jt=lb) 1=115, 9=282, 6=275
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5, 14.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/



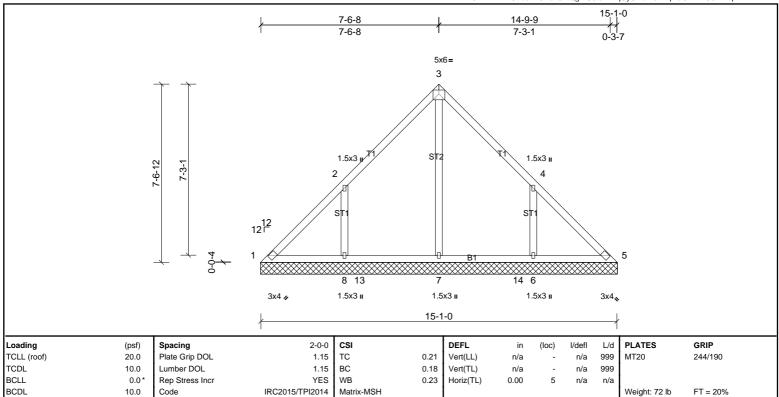






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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

OTHERS REACTIONS

All bearings 15-1-8

(lb) - Max Horiz 1=-190 (LC 6) Max Uplift

All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-237 (LC 11), 8=-241 (LC All reactions 250 (lb) or less at joint(s) 1, 5 except 6=442 (LC 18), 7=416 Max Grav

(LC 17), 8=446 (LC 17)

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

WEBS 2-8=-343/276, 4-6=-343/274

2x4 SP No.3

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 5) the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=241, 6=236.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 8) 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.

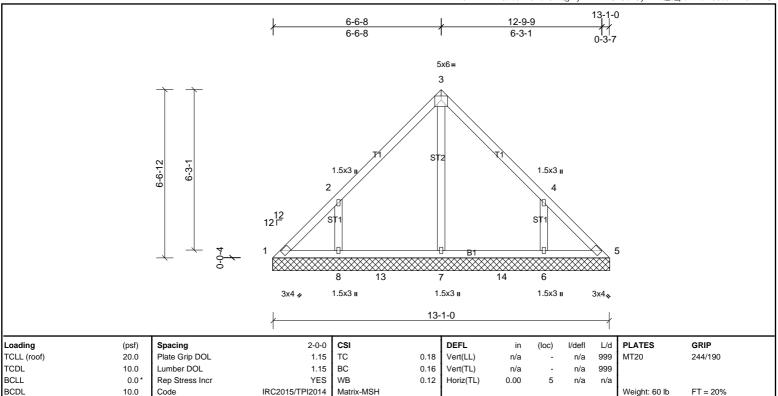






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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

OTHERS

All bearings 13-1-8 (lb) - Max Horiz 1=-164 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-208 (LC 11), 8=-213 (LC

All reactions 250 (lb) or less at joint(s) 1, 5 except 6=374 (LC 18), 7=349 Max Grav

(LC 17), 8=380 (LC 17)

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

WEBS 2-8=-321/261, 4-6=-321/259

2x4 SP No.3

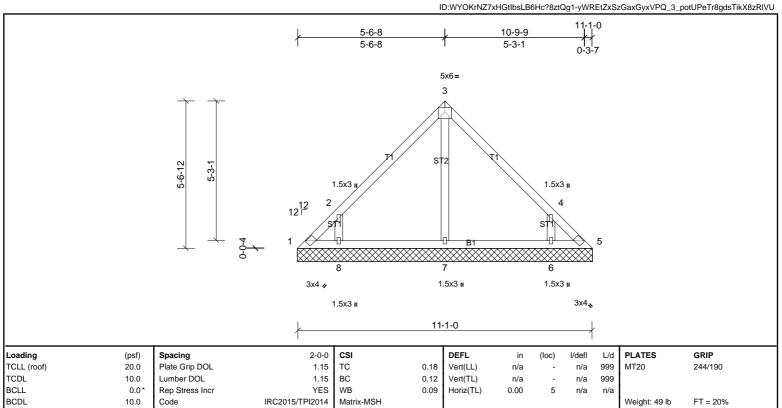
- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 5) the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=212, 6=207.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 8) 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.







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LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

OTHERS REACTIONS

All bearings 11-1-8 (lb) - Max Horiz 1=-138 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-194 (LC 11), 8=-200 (LC

All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=338 (LC 18), Max Grav

8=345 (LC 17)

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

WEBS 2-8=-350/293, 4-6=-350/290

2x4 SP No.3

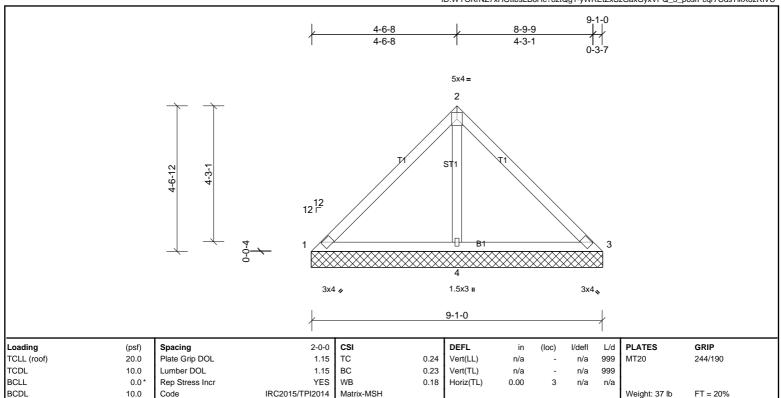
- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 5) 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, 5 except (jt=lb) 8=200, 6=194. 6)
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 8) 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.







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LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 9-1-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

2x4 SP No.3 REACTIONS (lb/size)

1=37/9-1-8, (min. 0-1-8), 3=37/9-1-8, (min. 0-1-8), 4=656/9-1-8, (min. 0-1-8)

Max Horiz

Max Uplift 1=-19 (LC 22), 3=-19 (LC 21), 4=-164 (LC 10) Max Grav 1=72 (LC 21), 3=72 (LC 22), 4=656 (LC 1)

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

TOP CHORD 1-2=-117/268, 2-3=-110/261

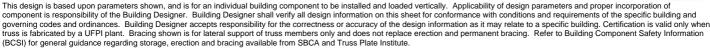
WEBS 2-4=-514/246

NOTES

OTHERS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 19 lb uplift at joint 1, 19 lb uplift at joint 3 and 164 lb uplift
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 8) 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









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 $ID: 2 Lqyd1ZVAz81hRH8dPmNSwztQg2-yWREtZxSzGaxGyxVPQ_3_potKPd4r92dsTikX8zRIVU$ 3-6-8 6-9-9 3-6-8 3-3-1 5x4 =2 STI1 12 12 □ 3x4 🕢 1.5x3 II 3x4. 7-1-0 Loading (psf) Spacing 2-0-0 CSI DEFL in I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 MT20 244/190 0.13 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(TL) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horiz(TL) 0.00 n/a n/a

LUMBER BRACING

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 7-1-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

Matrix-MSH

2x4 SP No.3 REACTIONS (lb/size) 1=92/7-1-8, (min. 0-1-8), 3=73/7-1-8, (min. 0-1-8), 4=377/7-1-8, (min. 0-1-8)

> Max Horiz 1=86 (LC 7) Max Uplift 1=-16 (LC 11), 3=-17 (LC 6), 4=-104 (LC 10)

1=102 (LC 18), 3=106 (LC 22), 4=387 (LC 17) Max Grav

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

WEBS 2-4=-261/105

NOTES

BCDL

OTHERS

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

10.0

Code

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS

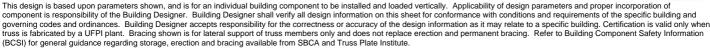
IRC2015/TPI2014

- for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Gable requires continuous bottom chord bearing. 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 5) the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 17 lb uplift at joint 3 and 104 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 8) 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.



Weight: 28 lb

FT = 20%





Job	Truss	Truss Type	Qty Ply		PBS\SMITHFIELD FC RH ROOF
72314097	V11	Truss	1	1	Job Reference (optional)

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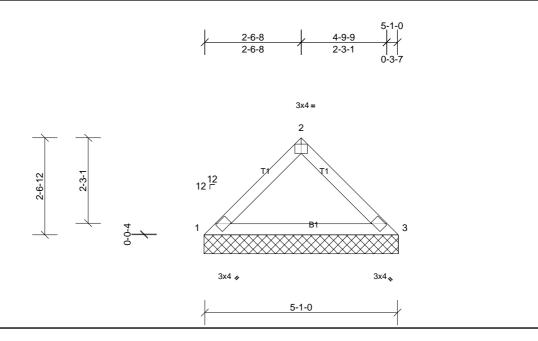


Plate Offsets (X, Y):	[2:0-2-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 17 lb	FT = 20%

LUMBER **BRACING**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=205/5-1-8, (min. 0-1-8), 3=205/5-1-8, (min. 0-1-8)

Max Horiz 1=61 (LC 7)

Max Uplift 1=-21 (LC 10), 3=-21 (LC 11)

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

1-2=-273/62

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Gable requires continuous bottom chord bearing.
- 3)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) 5) * 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 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 8) 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.



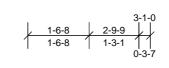


Job	Truss	Truss Type	Qty Ply		PBS\SMITHFIELD FC RH ROOF
72314097	V12	Truss	1	1	Job Reference (optional)

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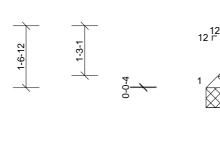
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3x4 =

3-1-0

3x4 /



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١	Plate Offsets (X, Y):	[2:0-2-0,Edge]	

Lo	pading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP	
TO	CLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
T	CDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999			
В	CLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
В	CDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%	

LUMBER **BRACING**

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 3-1-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=125/3-1-8, (min. 0-1-8), 3=125/3-1-8, (min. 0-1-8)

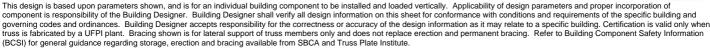
Max Horiz 1=-35 (LC 6)

1=-14 (LC 10), 3=-14 (LC 11) Max Uplift

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 2) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 14 lb uplift at joint 1 and 14 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3. 7)
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/







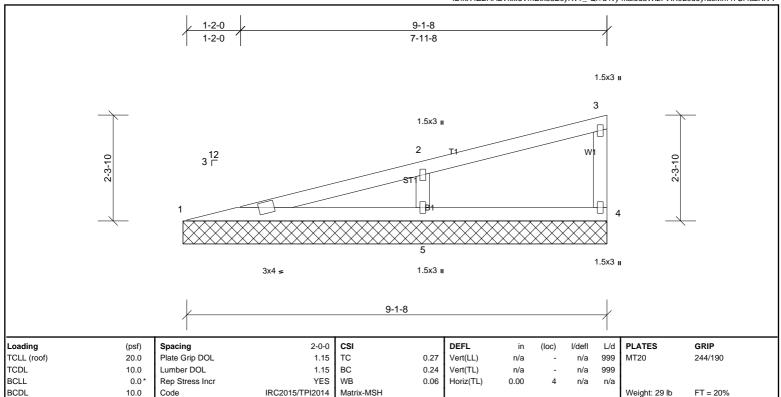


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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

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



BOT CHORD

LUMBER BRACING TOP CHORD

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

> (lb/size) 1=170/9-2-8, (min. 0-1-8), 4=102/9-2-8, (min. 0-1-8), 5=452/9-2-8, (min.

0-1-8) 1=88 (LC 7) Max Horiz

1=-26 (LC 6), 4=-21 (LC 10), 5=-102 (LC 6) Max Uplift

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

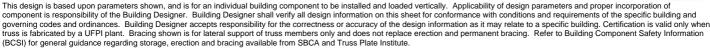
TOP CHORD 1-2=-406/112 **BOT CHORD** 1-5=-134/388 2-5=-303/199 WEBS

NOTES

REACTIONS

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing 2)
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4, 26 lb uplift at joint 1 and 102 lb uplift at joint 5.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 7) TPI 1







Job Truss Type PBS\SMITHFIELD FC RH ROOF Truss Qty Ply V14 1 72314097 Truss 1 Job Reference (optional)

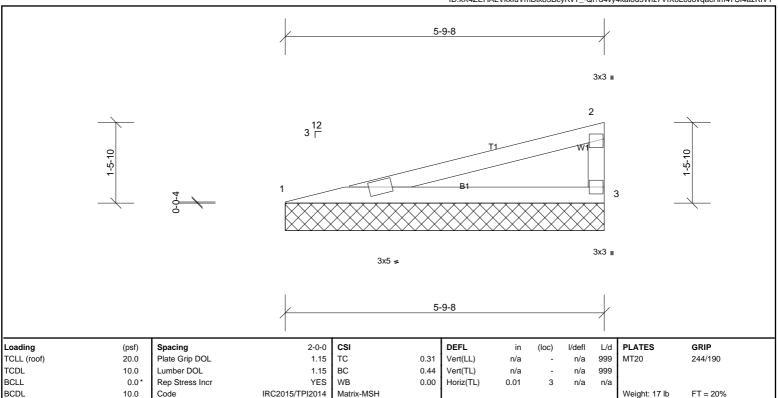
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

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Structural wood sheathing directly applied or 5-9-8 oc purlins, except end

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



BOT CHORD

LUMBER BRACING TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

> (lb/size) 1=226/5-9-8, (min. 0-1-8), 3=226/5-9-8, (min. 0-1-8)

Max Horiz 1=52 (LC 7) Max Uplift 1=-43 (LC 6), 3=-49 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-621/265

BOT CHORD 1-3=-274/596

NOTES

REACTIONS

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 1) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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. 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 4) the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3 and 43 lb uplift at joint 1.
- 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/



