Job Truss Truss Truss Truss Qty Ply MUNGO HOMES-RUSSELL 2ND FLR 24 CBR Truss 8 1 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:20

19-0-0

9-1-8

Page: 1

ID:Y?I0TELA5G72hK6FRQkx8OyE?ZL-2s0v?terSOrEBDgdX5oitKx89u?OBn9x5DFYglzmXqb 0-1-8 # 0-1-8 2-6-0 1-3-0 2-0-0 1.5x3 <sub>II</sub> 3x6 FP 1.5x3= 1.5x3= 5x8= 5x8= 3x6 II 5x4= 7x8= 3x6 II 5x6= 1.5x3 II 2 3 5 6 a 10 вИ B1 20 19 18 16 17 15 13 1.5x3= 3x4= 5x6= 5x6 =3x4 =3x8= 3x8= MT18HS 3x10 FP 3x6= 9-10-8

Scale = 1:43

Plate Offsets (X, Y):	[6:0-3-0,Edg	e], [7:0-2-0,Edge], [9:0-	·3-0,Edge], [16:0-1-8,Edge],	[17:0-1-8,Edge]								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.31	16	>737	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.60	16	>377	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 106 lb	FT = 20%F, 11%E

8-10-8

11-0-011-0-01

LUMBER BRACING

TOP CHORD 2x4 SP SS(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

OTHERS 2x4 SP No.3(flat)

**REACTIONS** (lb/size) 13=1433/0-3-8, (min. 0-1-8), 20=1438/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-4303/0, 3-4=-4306/0, 4-5=-6923/0, 5-6=-6923/0, 6-7=-6923/0, 7-8=-6116/0, 8-9=-6116/0, 9-10=-4286/0, 10-11=-4283/0

7-10-8

7-10-8

BOT CHORD 19-20=0/3188, 18-19=0/5441, 17-18=0/5441, 16-17=0/6923, 15-16=0/6769, 14-15=0/5424, 13-14=0/3172

WEBS 5-17=-571/0, 6-16=-379/117, 2-20=-3419/0, 2-19=0/1451, 4-19=-1446/0, 4-17=0/1787, 11-13=-3402/0, 11-14=0/1446, 9-14=-1450/0, 9-15=0/879, 7-15=-829/0, 7-16=-237/706

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated
- 3) The Fabrication Tolerance at joint 18 = 11%
- 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.
- 5) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

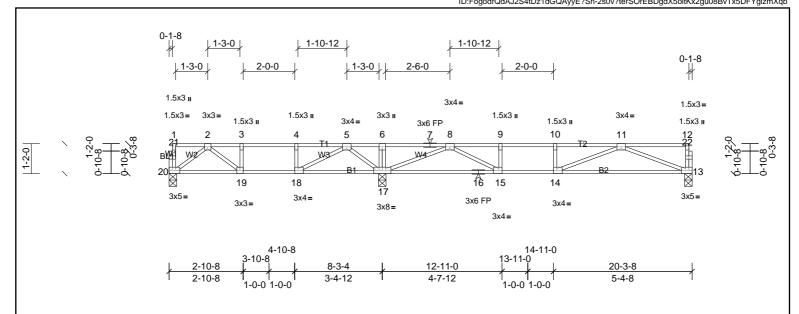
Vert: 13-20=-10, 1-5=-140, 5-6=-176, 6-12=-140







Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:20 Page: 1 ID:FogodrQdAJ2S4tDz1dGQAyyE?Sn-2s0v?terSOrEBDgdX5oitKx2gu08BvTx5DFYglzmXqb



Scale = 1:44.9

Plate Offsets (X, Y):	[13:0-2-0,Ed	lge], [14:0-1-8,Edge], [1	5:0-1-8,Edge], [18:0-1-8,Edge]	ge], [20:0-2-0,Ed	ge]							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.19	13-14	>749	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.30	13-14	>476	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER BRACING

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) BOT CHORD

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

13=601/0-3-8, (min. 0-1-8), 17=1213/0-3-8, (min. 0-1-8), 20=378/0-3-8, Max Grav 13=621 (LC 7), 17=1213 (LC 1), 20=417 (LC 10)

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

TOP CHORD  $2-3=-757/0,\ 3-4=-757/0,\ 4-5=-757/0,\ 5-6=0/607,\ 6-7=0/616,\ 7-8=0/616,\ 8-9=-1684/0,\ 9-10=-1684/0,\ 10-11=-1684/0,\ 10-1$ 

**BOT CHORD** 19-20=0/465, 18-19=0/757, 17-18=-150/342, 16-17=0/1067, 15-16=0/1067, 14-15=0/1684, 13-14=0/1254

 $4-18=-268/0,\ 6-17=-250/0,\ 9-15=-301/0,\ 2-20=-579/0,\ 2-19=0/373,\ 8-17=-1471/0,\ 8-15=0/789,\ 11-13=-1342/0,\ 11-14=0/464,\ 5-17=-694/0,\ 5-18=0/663$ WEBS

### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.

2x4 SP No.3(flat)

- 3) 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
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards.
- 5)



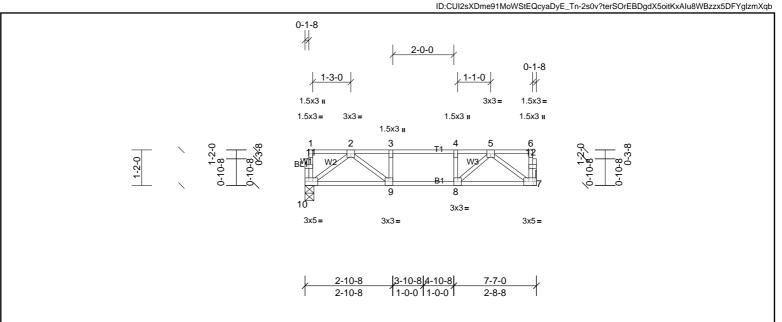
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.



Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	F202	Truss	1	1	Job Reference (optional)

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Scale = 1:37.9

Plate Offsets (X, Y):	[7:0-2-0,Edg	e], [10:0-2-0,Edge]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 39 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end 2x4 SP No.2(flat) **BOT CHORD** 

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

OTHERS 2x4 SP No.3(flat) REACTIONS (lb/size) 7=397/ Mechanical, (min. 0-1-8), 10=397/0-3-8, (min. 0-1-8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-680/0, 3-4=-680/0, 4-5=-680/0

**BOT CHORD** 9-10=0/437, 8-9=0/680, 7-8=0/437 WEBS 2-10=-544/0, 2-9=0/355, 5-7=-544/0, 5-8=0/375

# NOTES

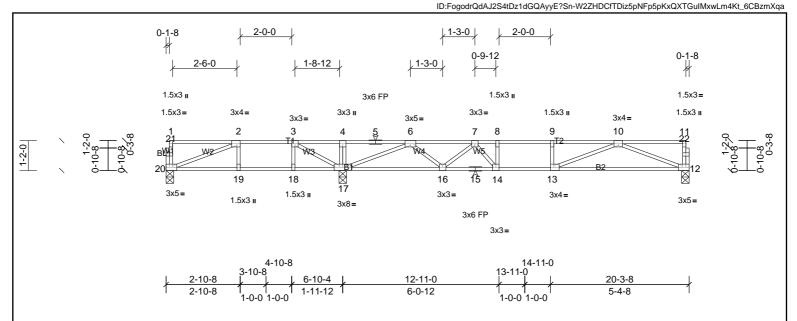
- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 3)
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







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Scale = 1:44.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.14	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.23	12-13	>694	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP No.2(flat)

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3(flat) WEBS **OTHERS** 

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

12=696/0-3-8, (min. 0-1-8), 17=1187/0-3-8, (min. 0-1-8), 20=309/0-3-8,

Max Grav 12=705 (LC 7), 17=1192 (LC 8), 20=366 (LC 3)

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

TOP CHORD  $2-3=-588/90,\ 3-4=-31/517,\ 4-5=-28/522,\ 5-6=-28/522,\ 6-7=-1715/0,\ 7-8=-2176/0,\ 8-9=-2176/0,\ 9-10=-2176/$ 

**BOT CHORD**  $19-20=-90/588,\ 18-19=-90/588,\ 17-18=-90/588,\ 16-17=0/1314,\ 15-16=0/2070,\ 14-15=0/2070,\ 13-14=0/2176,\ 12-13=0/1467,\ 14-15=0/2070,\ 1$  $8-14=-270/0,\ 2-20=-622/99,\ 3-17=-833/0,\ 10-12=-1572/0,\ 10-13=0/784,\ 6-17=-1697/0,\ 6-16=0/559,\ 7-16=-515/0,\ 7-14=-46/430$ WEBS

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) 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
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards.
- 5)

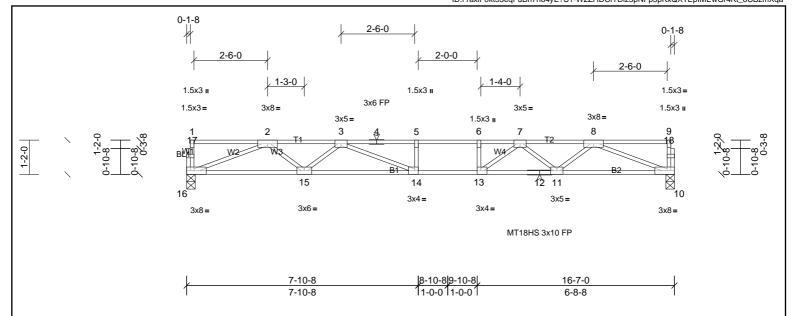


Structural wood sheathing directly applied or 6-0-0 oc purlins, except end





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Scale = 1:39.4

Plate Offsets (X, Y):	[13:0-1-8,Ed	gej, [14:0-1-8,Edgej										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.26	14-15	>763	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.47	14-15	>414	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.07	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP SS(flat) TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.

WEBS 244 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

OTHERS 2x4 SP No.3(flat)

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

TOP CHORD 2-3=-3459/0, 3-4=-4734/0, 4-5=-4734/0, 5-6=-4734/0, 6-7=-4734/0, 7-8=-3415/0

BOT CHORD 15-16=0/2656, 14-15=0/4190, 13-14=0/4734, 12-13=0/4163, 11-12=0/4163, 10-11=0/2654

10=1216/0-3-8, (min. 0-1-8), 16=1216/0-3-8, (min. 0-1-8)

WEBS 5-14=-277/0, 6-13=-424/0, 2-16=-2848/0, 2-15=0/1045, 3-15=-952/0, 3-14=0/890, 8-10=-2846/0, 8-11=0/990, 7-11=-974/0, 7-13=0/964

# NOTES

REACTIONS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.

(lb/size)

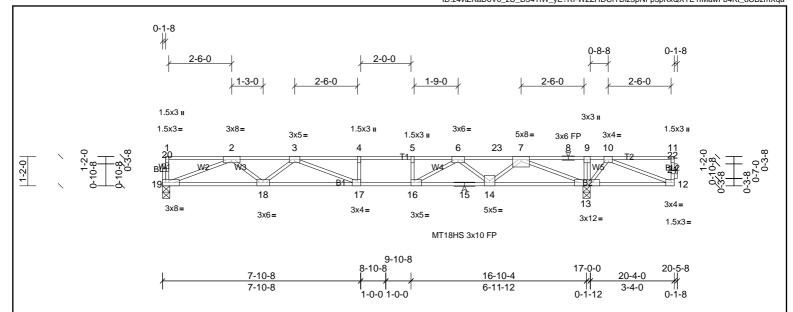
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







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riale Offsels (A, 1).	[10.0-1-0,Lu	gej, [17.0-1-6,Lugej										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.27	17-18	>741	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.49	17-18	>405	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 100 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP SS(flat) TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end BOT CHORD 2x4 SP SS(flat)

BOT CHORD 2x4 SP No.3(flat)

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13. WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 13=2074/0-3-8, (min. 0-1-8), 19=1191/0-3-8, (min. 0-1-8) Max Grav 13=2074 (LC 1), 19=1219 (LC 3)

[16:0 1 0 Edge] [17:0 1 0 Edge]

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

TOP CHORD  $2 - 3 = -3470/0, \ 3 - 4 = -4759/0, \ 4 - 5 = -4759/0, \ 5 - 6 = -4759/0, \ 6 - 23 = -3174/0, \ 7 - 23 = -3174/0, \ 7 - 8 = 0/998, \ 8 - 9 = 0/998, \ 9 - 10 = 0/992$ 

**BOT CHORD**  $18 - 19 = 0/2664, \ 17 - 18 = 0/4205, \ 16 - 17 = 0/4759, \ 15 - 16 = 0/4003, \ 14 - 15 = 0/4003, \ 13 - 14 = 0/2339, \ 12 - 13 = -477/0$ 

WEBS  $4-17=-278/0,\, 5-16=-435/0,\, 9-13=-324/0,\, 2-19=-2856/0,\, 2-18=0/1049,\, 3-18=-957/0,\, 3-17=0/895,\, 7-13=-3141/0,\, 7-14=0/1126,\, 6-14=-1129/0,\, 6-16=0/1224,\, 10-12=0/515,\, 10-13=-797/0,\,$ 

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) 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
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 5) to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 12-19=-10. 1-23=-140. 11-23=-176

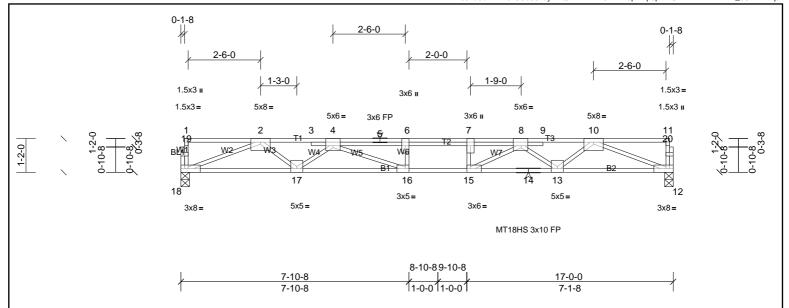






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Scale = 1:40

Plate Offsets (X, Y):	[4:0-3-0,Edge], [7:0-3-0,Edge], [8:0-2-12,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.22	16-17	>934	480	MT18HS	244/190	
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.46	16-17	>435	360	MT20	244/190	
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.09	12	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 93 lb	FT = 20%F, 11%E	

LUMBER BRACING

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end BOT CHORD 2x4 SP SS(flat)

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

**OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 12=1330/0-3-8, (min. 0-1-8), 18=1360/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-4028/0, 3-4=-4035/0, 4-5=-5943/0, 5-6=-5943/0, 6-7=-5943/0, 7-8=-5943/0, 8-9=-3887/0, 9-10=-3884/0

**BOT CHORD**  $17 - 18 = 0/2993,\ 16 - 17 = 0/5068,\ 15 - 16 = 0/5943,\ 14 - 15 = 0/4871,\ 13 - 14 = 0/4871,\ 12 - 13 = 0/2923$ 

WEBS  $6-16=-395/0,\ 7-15=-621/0,\ 2-18=-3210/0,\ 2-17=0/1347,\ 4-17=-1321/0,\ 4-16=0/1206,\ 10-12=-3135/0,\ 10-13=0/1251,\ 8-13=-1254/0,\ 8-15=0/1464$ 

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 5)

#### to walls at their outer ends or restrained by other means. LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

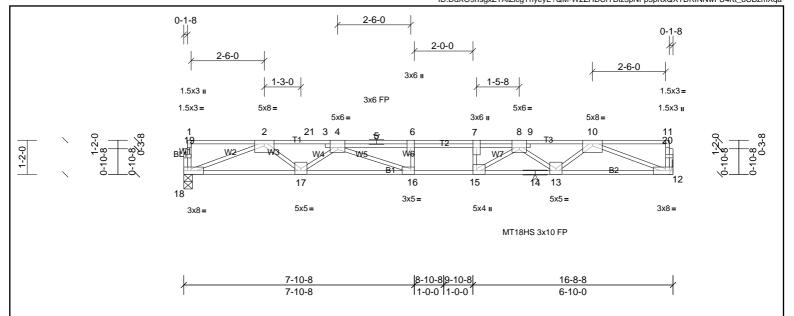
Vert: 12-18=-10, 1-3=-140, 3-7=-176, 7-11=-140







Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:22 Page: 1 



Scale = 1:39.5

riate Oliseis (A, 1). [4.0-3-0,Euge], [7.0-3-0,Euge], [10.0-1-0,Euge], [10.0-1-0,Euge]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.21	16-17	>946	480	MT18HS	244/190	
TCDL	30.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.45	16-17	>437	360	MT20	244/190	
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.08	12	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 90 lb	FT = 20%F, 11%E	

LUMBER BRACING 2x4 SP No.1(flat)

(A:0.2.0 Edge) [7:0.2.0 Edge] [9:0.2.0 Edge] [15:0.1.9 Edge] [16:0.1.9 Edge]

TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end BOT CHORD 2x4 SP SS(flat)

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 12=1312/ Mechanical, (min. 0-1-8), 18=1342/0-3-8, (min. 0-1-8) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-21=-3947/0, 3-21=-3947/0, 3-4=-3940/0, 4-5=-5760/0, 5-6=-5760/0, 6-7=-5760/0, 7-8=-5760/0, 8-9=-3778/0, 9-10=-3800/0 **BOT CHORD** 

17-18=0/2953, 16-17=0/4941, 15-16=0/5760, 14-15=0/4748, 13-14=0/4748, 12-13=0/2882

WEBS  $6-16=-374/0,\ 7-15=-697/0,\ 2-18=-3167/0,\ 2-17=0/1293,\ 4-17=-1263/0,\ 4-16=0/1134,\ 10-12=-3091/0,\ 10-13=0/1195,\ 8-13=-1204/0,\ 8-15=0/1432$ 

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 5) to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 12-18=-10, 1-21=-140, 7-21=-176, 7-11=-140

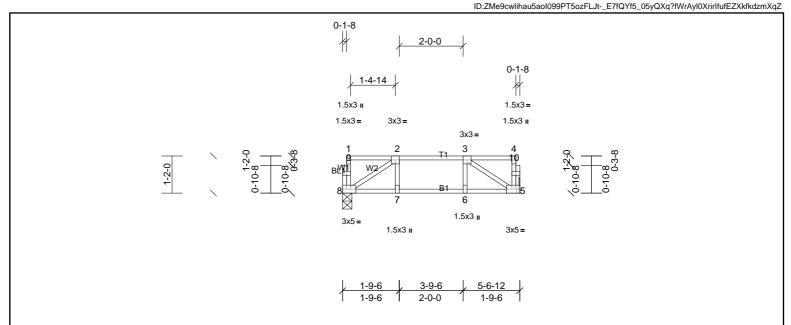




Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	F209	Truss	3	1	Job Reference (optional)

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Scale = 1:36.3

Plate Offsets (X, Y):	[5:0-2-0,Edg	e], [8:0-2-0,Edge]										
Loading	(psf)	Spacing	2-1-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 29 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.2(flat) TOP CHORD 2-0-0 oc purlins: 1-4

(Switched from sheeted: Spacing > 2-0-0). 2x4 SP No.2(flat) **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS

OTHERS 2x4 SP No.3(flat)

REACTIONS (lb/size) 5=298/ Mechanical, (min. 0-1-8), 8=298/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-361/0

**BOT CHORD** 7-8=0/361, 6-7=0/361, 5-6=0/361 WEBS 3-5=-427/0, 2-8=-427/0

NOTES

1)

Unbalanced floor live loads have been considered for this design.

- 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/
- 3) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached

to walls at their outer ends or restrained by other means.







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

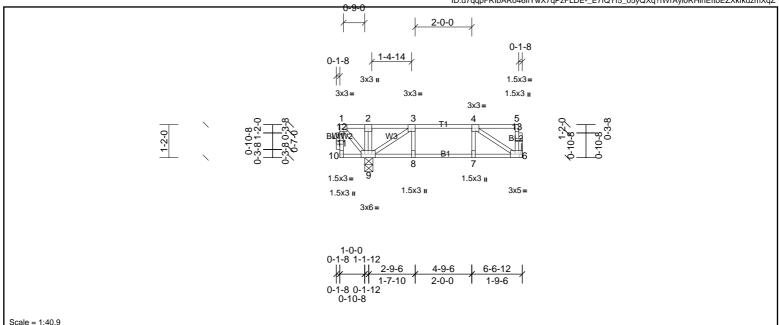


Plate Offsets (X, Y): [6:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP No.2(flat)

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10. 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 6=204/ Mechanical, (min. 0-1-8), 9=912/0-3-8, (min. 0-1-8)

Max Uplift 6=-3 (LC 3)

Max Grav 6=211 (LC 4), 9=912 (LC 1)

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

TOP CHORD 1-2=0/429, 2-3=0/430 WEBS 1-9=-636/0, 3-9=-658/0

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 6.
- 3) 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
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments. 5)
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 6) to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 6-10=-10, 1-2=-180, 2-5=-100

Concentrated Loads (lb)



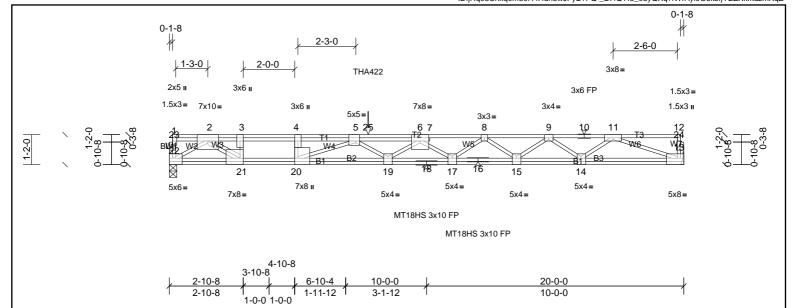


Job Truss Type MUNGO HOMES-RUSSELL 2ND FLR Truss Qty Ply FG1 1 72503908 Truss 1 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

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Scale = 1:45

Plate Offsets (X, Y):	[4:0-3-0,Edge], [5:0-1-12,Edge], [13:Edge,0-3-0], [14:0-1-12,Edge], [15:0-2-0,Edge], [17:0-2-0,Edge], [19:0-2-0,Edge], [20:0-3-0,Edge], [21:0-1-8,Edge], [22:0-3-0,Edge]	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.44	19-20	>530	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.61	19-20	>386	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.04	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 141 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP SS(flat) TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end BOT CHORD 2x4 SP SS(flat)

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 13=1163/ Mechanical, (min. 0-1-8), 22=1213/0-3-8, (min. 0-1-8) Max Grav 13=1179 (LC 4), 22=1213 (LC 1)

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

TOP CHORD  $2-3=-4059/0,\ 3-4=-4059/0,\ 4-5=-4059/0,\ 5-25=-6740/0,\ 6-25=-6740/0,\ 6-7=-6111/0,\ 7-8=-6165/0,\ 8-9=-5275/0,\ 9-10=-3700/0,\ 10-11=-3700$ **BOT CHORD** 21-22=0/1861, 20-21=0/4059, 19-20=0/6618, 18-19=0/6585, 17-18=0/6585, 16-17=0/5835, 15-16=0/5835, 14-15=0/4654, 13-14=0/2845, 12-12=0/4059, 13-14=0/4059,

WEBS  $3-21=-1260/0,\ 4-20=0/586,\ 2-22=-2150/0,\ 11-13=-2997/0,\ 11-14=0/1089,\ 9-14=-1213/0,\ 9-15=0/788,\ 8-15=-711/0,\ 8-17=0/420,\ 6-17=-520/0,\ 5-20=-2794/0,\ 2-21=0/2865$ 

### NOTES

**FORCES** 

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) 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
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached
- to walls at their outer ends or restrained by other means Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to back face of top chord. 5)
- Fill all nail holes where hanger is in contact with lumber. 6)
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

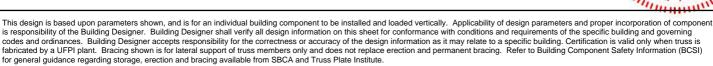
Uniform Loads (lb/ft)

Vert: 13-22=-10, 1-12=-100

Concentrated Loads (lb)

Vert: 25=-216 (B)



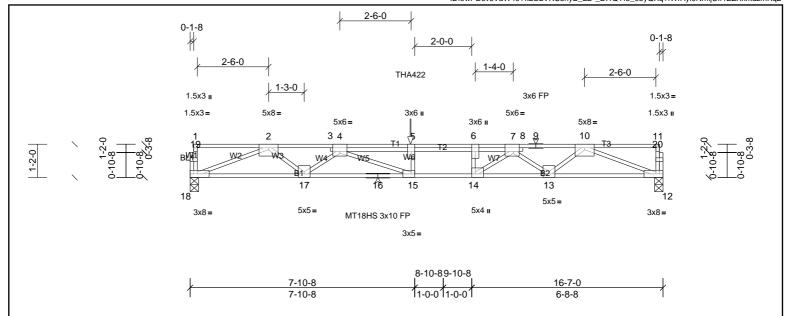




Job Truss Type MUNGO HOMES-RUSSELL 2ND FLR Truss Qty Ply FG2 1 72503908 Truss 1 Job Reference (optional) Page: 1

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

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riale Offsels (A, 1).	[4.0-3-0,Eug	ej, [0.0-3-0,Lugej, [1.0-2	2-0,Lugej, [14.0-1-0,Lugej,	[13.0-1-0,Luge]								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.26	15-17	>764	480	MT18HS	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.45	15-17	>435	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 89 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins, except end BOT CHORD 2x4 SP SS(flat)

BOT CHORD

(A:0.2.0 Edge) [6:0.2.0 Edge) [7:0.2.9 Edge) [14:0.1.9 Edge] [15:0.1.9 Edge]

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 12=1299/0-3-8, (min. 0-1-8), 18=1310/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-3825/0, 3-4=-3798/0, 4-5=-5674/0, 5-6=-5674/0, 6-7=-5674/0, 7-8=-3718/0, 8-9=-3749/0, 9-10=-3749/0

**BOT CHORD** 17-18=0/2873, 16-17=0/4772, 15-16=0/4772, 14-15=0/5674, 13-14=0/4681, 12-13=0/2851

WEBS  $5-15=-353/0,\ 6-14=-803/0,\ 10-12=-3058/0,\ 10-13=0/1169,\ 7-13=-1184/0,\ 7-14=0/1564,\ 2-18=-3081/0,\ 2-17=0/1239,\ 4-17=-1203/0,\ 4-15=0/1071,\ 4-17=-1203/0,\ 4-17=-12$ 

# NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-8-12 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber. 6)
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B), 7)

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 12-18=-10. 1-11=-140

Concentrated Loads (lb)

Vert: 5=-176 (F)





Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	FG3	Truss	1	1	Job Reference (optional)

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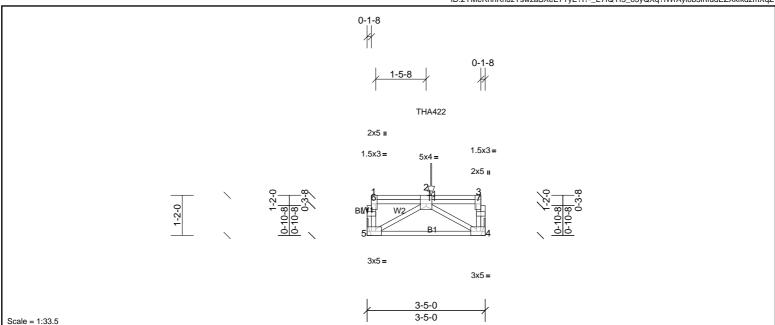


Plate Offsets (X, Y):	[2:0-2-0,Edge], [3:0-3-0,Edge], [4:0-2-0,Edge], [5:0-2-0,Edge]
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Loading (p	psf)	Spacing	2-0-0	CSI	l	DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 4	10.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P	l						Weight: 24 lb	FT = 20%F, 11%E

LUMBER BRACING

 TOP CHORD
 2x4 SP No.2(flat)
 TOP CHORD

 BOT CHORD
 2x4 SP No.2(flat)
 BOT CHORD

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

REACTIONS (lb/size) 4=316/ Mechanical, (min. 0-1-8), 5=316/ Mechanical, (min. 0-1-8)

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

BOT CHORD 4-5=0/376 WEBS 2-4=-437/0, 2-5=-437/0

NOTES

- 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/
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to front face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 4-5=-10, 1-3=-100

Concentrated Loads (lb)

Vert: 2=-297 (F)



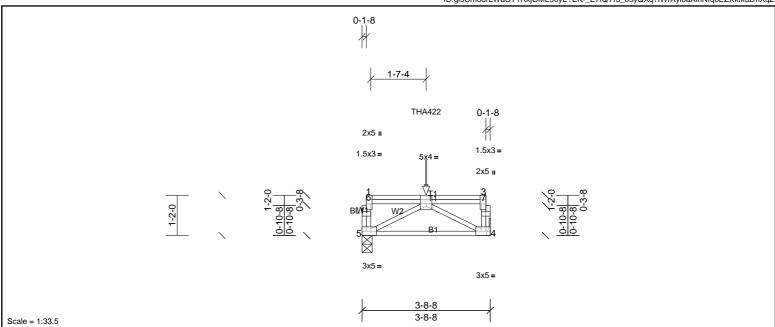
Structural wood sheathing directly applied or 3-5-0 oc purlins, except end





Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	FG4	Truss	1	1	Job Reference (optional)

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		l e										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.2(flat) TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 

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

OTHERS 2x4 SP No.3(flat) REACTIONS (lb/size) 4=790/ Mechanical, (min. 0-1-8), 5=790/0-3-8, (min. 0-1-8)

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

**BOT CHORD** 4-5=0/1193

WEBS 2-4=-1364/0, 2-5=-1364/0

### NOTES

- 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/
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 2)
- 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to back face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb)

Vert: 2=-1212 (B)

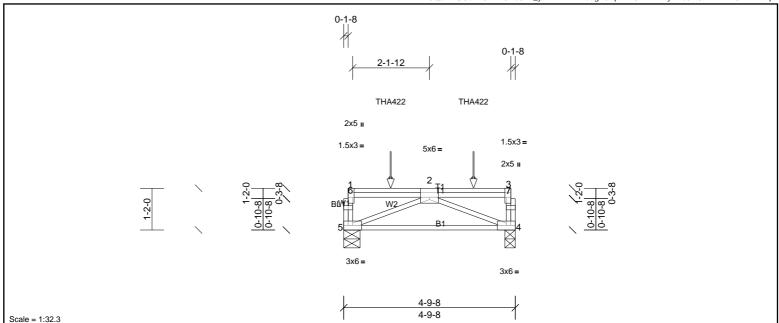


Structural wood sheathing directly applied or 3-8-8 oc purlins, except end



Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	FG5	Truss	1	1	Job Reference (optional)

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:23 Page: 1  $ID: 5QsKfPUOdLX8ZxMONo8?X\_yE?DD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRh1eugkIJDp2hPCDEMPVyZYe61tODFNnBTCH4zmXqYPD-TRH1eugkIJDp2hPCDPVyZYe61tODFNnBTCH4zmXqYPD-TRH1eugkIJDp2hPCDPVyZYe61tODFNnBTCH4zmXqYPD-TRH1eughtAyPVyZYe61tODFNnBTCH4zmXqYPD-TRH1eughtAyPVyZYe61tODFNnBTCH4zmXqYPD-TRH1eughtAyPVyZYe61tODFNnBTCH4Ze01tODFNnBTCH4Ze01tODFNNBTCH4Ze01tODFNDPATAYPVyZYe61tODFNDPATAYPVyZYe61tODFNDPATAYPVyZ$ 



riate Offsets (A, 1).	[2.0-3-0,Eug	ej, [3.0-3-0,Luge]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	30.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.07	4-5	>785	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.1(flat) TOP CHORD **BOT CHORD** 2x4 SP No.2(flat)

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

REACTIONS (lb/size) 4=1542/0-3-8, (min. 0-1-8), 5=1466/0-5-8, (min. 0-1-8)

[3:0.3.0 Edge] [3:0.3.0 Edge]

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

5-6=-529/0, 1-6=-528/0, 4-7=-607/0, 3-7=-606/0 **BOT CHORD** 4-5=0/2157

WEBS 2-5=-2313/0, 2-4=-2307/0

# NOTES

Ploto Offooto (V. VI)

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ 1)
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-3-12 oc max. starting at 1-3-12 from the left end to 3-7-8 to
- connect truss(es) to back face of top chord. Fill all nail holes where hanger is in contact with lumber. 4)
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 5)

#### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 4-5=-10. 1-3=-140

Concentrated Loads (lb)

Vert: 8=-1172 (B), 9=-1173 (B)



Structural wood sheathing directly applied or 4-9-8 oc purlins, except end



 Job
 Truss
 Truss Type
 Qty
 Ply
 MUNGO HOMES-RUSSELL 2ND FLR

 72503908
 FG6
 Truss
 1
 1
 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

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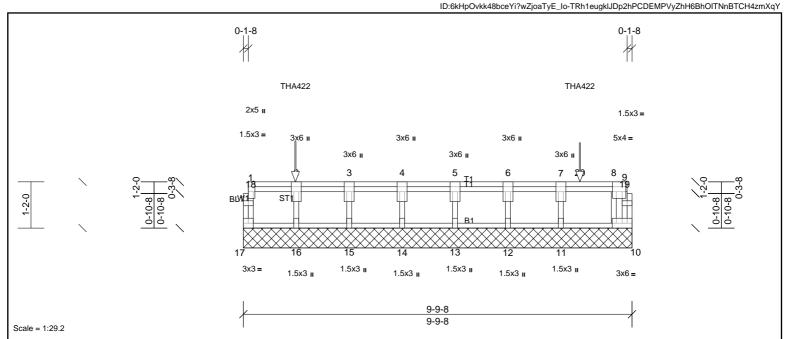


Plate Offsets (	(X, Y)	):	[9:0-2-0,Edge]

- 1													
١	Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
١	TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
١	TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(TL)	n/a	-	n/a	999		
١	BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horiz(TL)	0.00	10	n/a	n/a		
	BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 56 lb	FT = 20%F, 11%E

LUMBER BRACING

TOP CHORD 2x4 SP No.2(flat) TOP CHORD
BOT CHORD 2x4 SP No.2(flat)

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

**REACTIONS** All bearings 9-9-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 17 except 10=274

(LC 1), 11=751 (LC 1), 16=1127 (LC 1)

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

WEBS 2-16=-1134/0, 7-11=-723/0, 8-10=-313/0

# NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 7-2-0 oc max. starting at 1-3-12 from the left end to 8-5-12 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 10-17=-10, 1-9=-100

Concentrated Loads (lb)

Vert: 2=-1079 (B), 20=-690 (B)



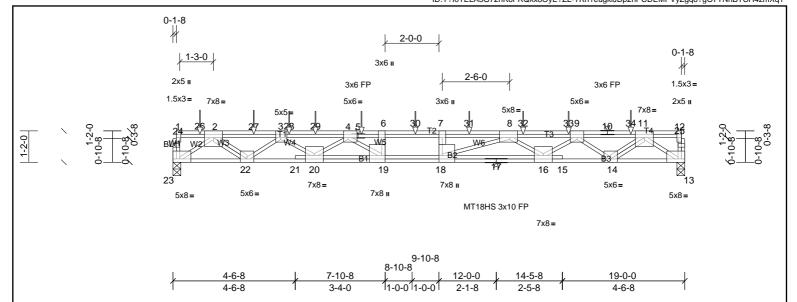
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end



Job MUNGO HOMES-RUSSELL 2ND FLR Truss Truss Type Qty Ply FG7 1 72503908 Truss 1 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

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Scale = 1:43

Plate Offsets (X, Y):	[3:0-2-4,Edg	ge], [4:0-2-0,Edge], [7:0-	3-0,Edge], [8:0-3-8,Edge], [	9:0-3-0,Edge], [12	2:0-3-0,Edge],	[13:Edge,0-1-	8], [18:0-3	-0,Edge],	[19:0-3-0	),Edge]	, [23:Edge,0-1-8]	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.38	16-18	>596	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.52	16-18	>430	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 137 lb	FT = 20%F, 11%E

LUMBER **BRACING** 

TOP CHORD 2x4 SP SS(flat) TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end BOT CHORD 2x4 SP SS(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

REACTIONS (lb/size) 13=1612/0-3-8, (min. 0-1-8), 23=1805/0-3-8, (min. 0-1-8)

> Max Grav 13=1667 (LC 4), 23=1900 (LC 3)

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

 $2-27 = -3976/0, \ 3-27 = -3976/0, \ 3-28 = -6616/0, \ 28-29 = -6616/0, \ 4-29 = -6616/0, \ 4-5 = -8322/0, \ 5-6 = -8322/0, \ 6-30 = -8322/0, \ 7-30 = -8322/0, \ 7-31 = -8322/0, \ 8-31 = -8322/0, \ 8-32 = -6389/0, \ 8-32 = -638$ 

32-33=-6389/0, 9-33=-6389/0, 9-10=-3674/0, 10-34=-3674/0, 11-34=-3674/0

**BOT CHORD** 22-23=0/2547, 21-22=0/5702, 20-21=0/5687, 19-20=0/7655, 18-19=0/8322, 17-18=0/7444, 16-17=0/7444, 15-16=0/5291, 14-15=0/5303, 13-14=0/2345, 12-12=0/5687,**WEBS** 

6-19=-691/41, 7-18=-481/0, 2-23=-3073/0, 2-22=0/1910, 3-22=-2156/0, 3-20=0/1255, 4-20=-1361/0, 4-19=-186/1779, 11-13=-2837/0, 11-14=0/1783, 9-14=-2043/0, 9-16=0/1425, 11-14=0/1783, 1

8-16=-1308/0, 8-18=-68/2019

### NOTES (7)

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 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/ 3) TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 279 lb down at 1-0-0, 277 lb down at 3-0-0, 191 lb down and 103 lb up at 4-3-12, 191 lb down and 103 lb up at 5-3-8, 191 lb down and 103 lb up at 7-0-0, 191 lb down and 103 lb up at 9-0-0, 191 lb 5) down and 103 lb up at 11-0-0, 191 lb down and 103 lb up at 13-0-0, and 191 lb down and 103 lb up at 14-8-4, and 277 lb down at 17-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- F210 trusses may be attached to 2 or more ply top chord of 19" maximum depth flat truss girder with Simpson THA422 or equal. Follow Simpson instructions for installation. In addition, install 2x4 #2 SPF in top chord notch and attach to double top chord of girder with two-16d nails each side of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00. Plate Increase=1.00 1)

Uniform Loads (lb/ft)

Vert: 13-23=-10, 1-12=-100

Concentrated Loads (lb)

Vert: 5=-111 (F), 26=-205 (F), 27=-194 (F), 28=-111 (F), 29=-111 (F), 30=-111 (F), 31=-111 (F), 32=-111 (F), 33=-111 (F), 34=-194 (F)





Job Truss Type MUNGO HOMES-RUSSELL 2ND FLR Truss Qty Ply K200 1 72503908 Truss 1 Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Joy Perry

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999

n/a

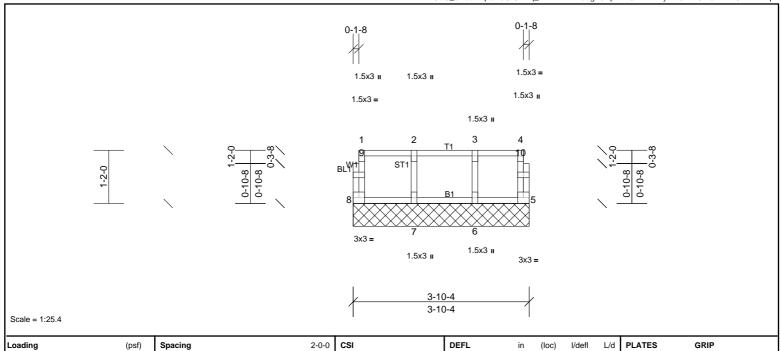
n/a 999

n/a n/a MT20

Weight: 19 lb

244/190

FT = 20%F, 11%E



0.07

0.01

0.03

Vert(LL)

Vert(TL)

Horiz(TL)

n/a

n/a

0.00

BCDL IRC2015/TPI2014 5.0 Matrix-R Code

LUMBER BRACING 2x4 SP No.2(flat)

TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end BOT CHORD 2x4 SP No.2(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3(flat)

1.00 TC

1.00 BC

YES WB

OTHERS 2x4 SP No.3(flat) REACTIONS

All bearings 3-10-4. (lb) - Max Grav All reactions 250 (lb) or less at joint(s) 5, 6, 7, 8

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

# NOTES

TCLL

TCDL

BCLL

All plates are 1.5x3 MT20 unless otherwise indicated. 1)

40.0

10.0

0.0

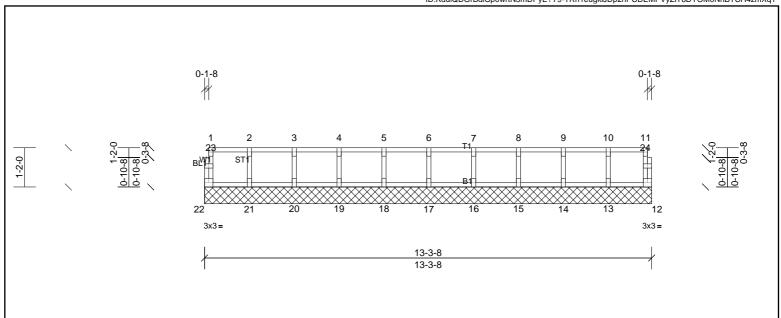
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached 6) to walls at their outer ends or restrained by other means.







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Scale = 1:34.4

Loading (psf)	Spacing	2-0-0	CSI	1	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-R	I						Weight: 56 lb	FT = 20%F, 11%E

**BOT CHORD** 

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS

2x4 SP No.3(flat) 2x4 SP No.3(flat)

REACTIONS All bearings 13-3-8

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20,

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

### NOTES

OTHERS

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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/
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 6)



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

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

verticals





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in (loc)

n/a

n/a

0.00

I/defI

n/a

n/a 999

n/a

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

19

L/d

999

PLATES

Weight: 86 lb

244/190

FT = 20%F, 11%E

MT20

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

3x6 FP 10 12 1134 15 3x3= 3x6= 3x3 =3x6 FP 20-5-8 20-5-8 Scale = 1:45.2

0.09

0.03

0.03

**BOT CHORD** 

Vert(LL)

Vert(TL)

Horiz(TL)

LUMBER **BRACING** 

TOP CHORD 2x4 SP No.2(flat) TOP CHORD

BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat) REACTIONS All bearings 20-5-8

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

28, 29, 30, 31, 32, 33, 34

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

NOTES

Loading

TCLL

TCDL

BCLL

BCDL

1) All plates are 1.5x3 MT20 unless otherwise indicated.

(psf)

40.0

10.0

0.0

5.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

- 2) Gable requires continuous bottom chord bearing
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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/
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 6)

2-0-0 CSI

1.00 TC

1.00 BC

YES WB

Matrix-R

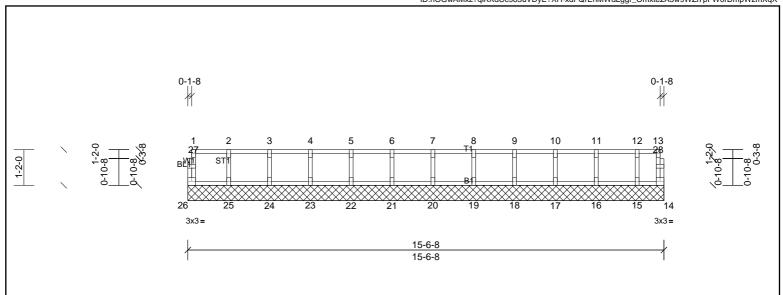
IRC2015/TPI2014







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Scale = 1:37.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 11%E

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2(flat)
 TOP CHORD

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP No.2(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BOT CHORD

2x4 SP No.3(flat)
2x4 SP No.3(flat)

REACTIONS All bearings 15-6-8.

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

23, 24, 25, 26

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

### NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

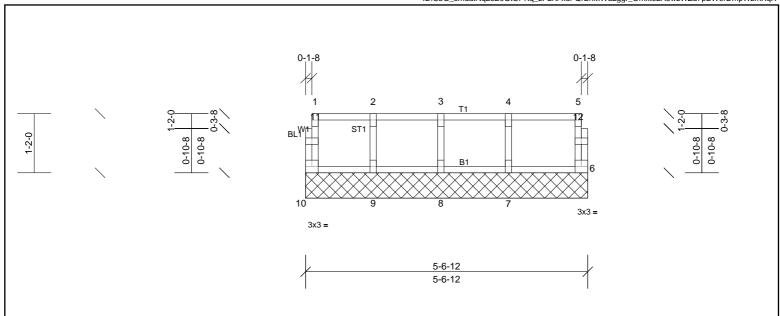
Rigid ceiling directly applied or 10-0-0 oc bracing.

verticals



Job	Truss	Truss Type	Qty	Ply	MUNGO HOMES-RUSSELL 2ND FLR
72503908	K204	Truss	1	1	Job Reference (optional)

Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Feb 10 13:39:24  $ID: CbG\_smdatNq2sB0GtOPKq\_zFLKI-xdFQrEhMWdLggr\_Omxte2A5wzWZd7pEW0rDmpWzmXqX\\$ 



Scale = 1:22.8

Loading (psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-R	l						Weight: 25 lb	FT = 20%F, 11%E

**BOT CHORD** 

LUMBER BRACING TOP CHORD

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

All bearings 5-6-12.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 6, 7, 8, 9, 10

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

# NOTES

REACTIONS

- All plates are 1.5x3 MT20 unless otherwise indicated. 1)
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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/
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Structural wood sheathing directly applied or 5-6-12 oc purlins, except end

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

verticals



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