

RE: J1024-5802

Lot 1 Heritage @ Neills Creek

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J1024-5802

Lot/Block: Model:
Address: Subdivision:
City: State:

### General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	169177175	F01	10/29/2024
2	169177176	F02	10/29/2024
3	169177177	F03	10/29/2024
4	169177178	F04	10/29/2024
5	169177179	F05	10/29/2024
6	169177180	F06	10/29/2024
7	169177181	F07	10/29/2024
8	169177182	F08	10/29/2024
9	169177183	F09	10/29/2024
10	169177184	F10	10/29/2024
11	169177185	F11	10/29/2024
12	169177186	FKW1	10/29/2024
13	169177187	FKW2	10/29/2024
14	169177188	FKW3	10/29/2024
15	169177189	FKW4	10/29/2024
16	169177190	FKW5	10/29/2024

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



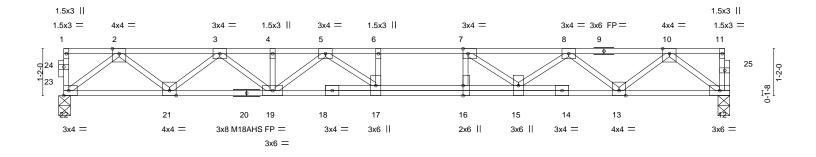
October 29, 2024

Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
J1024-5802	F01	Floor	4	1	l69177175
31024-3602		Floor	4	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:45 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





			16-8-0	
Plate Offsets (X,Y)	[7:0-1-8,Edge], [16:0-3-0,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         YES	CSI. TC 0.41 BC 0.71 WB 0.47	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.20         16-17         >997         480           Vert(CT)         -0.27         16-17         >724         360           Horz(CT)         0.05         12         n/a         n/a	PLATES GRIP MT20 244/190 M18AHS 186/179
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 91 lb FT = 20%F, 11%E

16-8-0

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 22=0-3-8, 12=0-3-8 Max Grav 22=899(LC 1), 12=893(LC 1)

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

TOP CHORD 2-3=-1833/0, 3-4=-3019/0, 4-5=-3019/0, 5-6=-3644/0, 6-7=-3644/0, 7-8=-3099/0,

8-10=-1861/0 BOT CHORD  $21-22=0/1076,\ 19-21=0/2545,\ 17-19=0/3409,\ 16-17=0/3644,\ 15-16=0/3644,\ 13-15=0/2622,$ 

12-13=0/1109

WFBS 2-22=-1374/0, 2-21=0/985, 3-21=-927/0, 3-19=0/605, 10-12=-1389/0, 10-13=0/979,

8-13=-991/0, 8-15=0/605, 7-15=-853/0, 7-16=-95/331, 5-19=-498/0, 5-17=0/550

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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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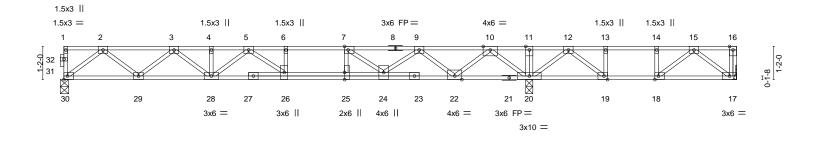


Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
14004 5000	F00				I69177176
J1024-5802	F02	Floor	3	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:45 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







		16-6-0			23-9-8	
1		16-6-0			7-3-8	1
Plate Offsets (X,Y)	[7:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1	-8,Edge], [25:0-3-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.62	Vert(LL) -0.17 26 >99	9 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.58	Vert(CT) -0.24 26-28 >82	9 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.03 20 n.	/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 127 lb	FT = 20%F, 11%E

LUMBER-BRACING-

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 30=0-3-8, 17=Mechanical, 20=0-3-0

Max Uplift 17=-69(LC 3)

Max Grav 30=824(LC 10), 17=332(LC 4), 20=1563(LC 1)

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

2-3=-1644/0, 3-4=-2658/0, 4-5=-2658/0, 5-6=-2984/0, 6-7=-2984/0, 7-9=-2273/0, TOP CHORD

9-10=-898/0, 10-11=0/1363, 11-12=0/1363, 12-13=-443/423, 13-14=-443/423,

14-15=-443/423

**BOT CHORD**  $29 - 30 = 0/980,\ 28 - 29 = 0/2273,\ 26 - 28 = 0/2919,\ 25 - 26 = 0/2984,\ 24 - 25 = 0/2984,\ 22 - 24 = 0/1721,$ 

19-20=-868/81, 18-19=-423/443, 17-18=-127/344

**WEBS** 2-30=-1251/0, 2-29=0/865, 3-29=-818/0, 3-28=0/491, 5-28=-336/0, 5-26=-150/355, 10-20=-1505/0, 10-22=0/1119, 9-22=-1092/0, 9-24=0/723, 7-24=-1000/0, 7-25=-1/406,

15-17=-432/159, 12-20=-818/0, 15-18=-378/127, 12-19=0/806, 13-19=-383/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 17.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



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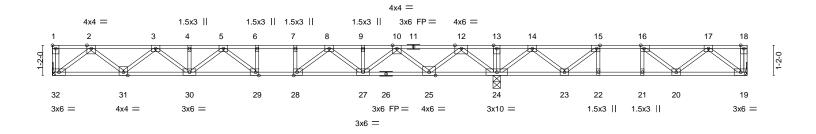
Job Truss Truss Type Qty Lot 1 Heritage @ Neills Creek 169177177 J1024-5802 Floor F03 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:46 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

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1-3-0 1-4-4 1-7-0

Scale = 1:44.7



1 2-9-0	14-	7-4	1	17-2-12	19-10-4	24-2-4	26-11-4 <sub>I</sub>
2-9-0	11-1		2-7-8	2-7-8	4-4-0	2-9-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1	-8,Edge], [28:0-1-8,Edge]	, [29:0-1-8,Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.64 BC 0.73 WB 0.59 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.21 29-30 -0.29 29-30 0.04 24	>974 4 >712 3	MT20 60 h/a Weight: 138	<b>GRIP</b> 244/190 Ib FT = 20%F, 11%E

BRACING-LUMBER-

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 19=Mechanical, 24=0-3-8

Max Uplift 19=-54(LC 3)

Max Grav 32=832(LC 10), 19=442(LC 4), 24=1814(LC 1)

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

2-3=-1696/0, 3-4=-2727/0, 4-5=-2727/0, 5-6=-2948/0, 6-7=-2948/0, 7-8=-2948/0, TOP CHORD 8-9=-2022/0, 9-10=-2022/0, 10-12=-468/115, 12-13=0/2101, 13-14=0/2101,

14-15=-364/1054, 15-16=-820/577, 16-17=-714/242

31-32=0/1030, 30-31=0/2335, 29-30=0/2961, 28-29=0/2948, 27-28=0/2535, 25-27=0/1360. **BOT CHORD** 

24-25=-785/0, 23-24=-1413/0, 22-23=-577/820, 21-22=-577/820, 20-21=-577/820,

WEBS 2-32=-1292/0, 12-24=-1651/0, 2-31=0/867, 12-25=0/1232, 3-31=-831/0, 10-25=-1193/0,

3-30=0/501, 10-27=0/881, 5-30=-299/0, 8-27=-692/0, 5-29=-304/286, 8-28=0/743,

7-28=-325/0, 17-19=-670/82, 14-24=-1077/0, 14-23=0/771, 16-20=-136/428,

15-23=-943/0, 15-22=0/302, 16-21=-276/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 19.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



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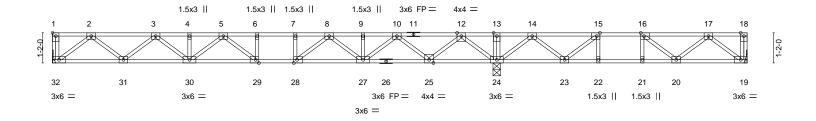


Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
		5,000			169177178
J1024-5802	F04	FLOOR	3	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:47 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-7-0 1-3-0 1-4-4

Scale = 1:44.7



1 2-9-0	14-7	7-4	1	17-2-12	19-10-4	24-2-4	<sub>1</sub> 26-11-4
2-9-0	11-1		2-7-8	2-7-8	4-4-0	2-9-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1	-8,Edge], [28:0-1-8,Edge]	, [29:0-1-8,Ed	je]			
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL.	in (loc	,	L/d <b>PLATES</b>	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL	) -0.17 29-30	) >999 4	180 MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.58	Vert(C1	) -0.23 29-30	) >891 3	360	
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(C	Γ) 0.03 24	4 n/a	n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 138	3 lb FT = 20%F, 11%E

BRACING-LUMBER-

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 32=Mechanical, 19=Mechanical, 24=0-3-8

Max Uplift 19=-43(LC 3)

Max Grav 32=666(LC 10), 19=354(LC 4), 24=1450(LC 1)

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

2-3=-1356/0, 3-4=-2180/0, 4-5=-2180/0, 5-6=-2357/0, 6-7=-2357/0, 7-8=-2357/0, TOP CHORD

8-9=-1617/0, 9-10=-1617/0, 10-12=-374/92, 12-13=0/1679, 13-14=0/1679,

14-15=-291/843, 15-16=-655/462, 16-17=-570/193

**BOT CHORD** 31-32=0/823, 30-31=0/1866, 29-30=0/2368, 28-29=0/2357, 27-28=0/2027, 25-27=0/1087,

24-25=-627/0, 23-24=-1129/0, 22-23=-462/655, 21-22=-462/655, 20-21=-462/655,

WEBS 2-32=-1033/0, 12-24=-1320/0, 2-31=0/693, 12-25=0/985, 3-31=-664/0, 10-25=-954/0,

3-30=0/400, 10-27=0/704, 8-27=-553/0, 8-28=0/594, 7-28=-259/0, 17-19=-536/65,

14-24=-861/0, 14-23=0/616, 16-20=-108/342, 15-23=-754/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 19.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

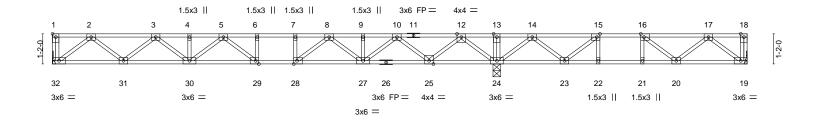


Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
		5,000			169177179
J1024-5802	F05	FLOOR	3	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:47 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-3-0 1-4-4 1-7-0

Scale = 1:44.7



1 2-	9-0		14	-7-4		1	17-2-12	19-10-4	1	24-2-4	26-11-4 <sub>I</sub>
2-	9-0	11-10-4					2-7-8	2-7-8	1	4-4-0	2-9-0
Plate Offsets (	X,Y) [1	:Edge,0-1-8], [15:0-1-8,	Edge], [16:0-	1-8,Edge], [28	:0-1-8,Edge	], [29:0-1-8,Edge]					
LOADING (ps	sf)	SPACING-	1-7-3	CSI.		DEFL.	in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL 40	,	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.17 29-	30 >999	480	MT20	244/190
TCDL 10	.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.23 29-	30 >891	360		
BCLL 0	.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	24 n/a	n/a		
BCDL 5	.0	Code IRC2015/TF	PI2014	Matrix	c-S					Weight: 138 lb	FT = 20%F, 11%E

BRACING-LUMBER-

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 32=Mechanical, 19=Mechanical, 24=0-3-8

Max Uplift 19=-43(LC 3)

Max Grav 32=666(LC 10), 19=354(LC 4), 24=1450(LC 1)

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

2-3=-1356/0, 3-4=-2180/0, 4-5=-2180/0, 5-6=-2357/0, 6-7=-2357/0, 7-8=-2357/0, TOP CHORD

8-9=-1617/0, 9-10=-1617/0, 10-12=-374/92, 12-13=0/1679, 13-14=0/1679,

14-15=-291/843, 15-16=-655/462, 16-17=-570/193

**BOT CHORD** 31-32=0/823, 30-31=0/1866, 29-30=0/2368, 28-29=0/2357, 27-28=0/2027, 25-27=0/1087,

24-25=-627/0, 23-24=-1129/0, 22-23=-462/655, 21-22=-462/655, 20-21=-462/655,

2-32=-1033/0, 12-24=-1320/0, 2-31=0/693, 12-25=0/985, 3-31=-664/0, 10-25=-954/0,

3-30=0/400, 10-27=0/704, 8-27=-553/0, 8-28=0/594, 7-28=-259/0, 17-19=-536/65,

14-24=-861/0, 14-23=0/616, 16-20=-108/342, 15-23=-754/0

### NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 19.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



October 29,2024



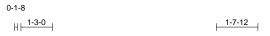
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

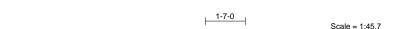
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

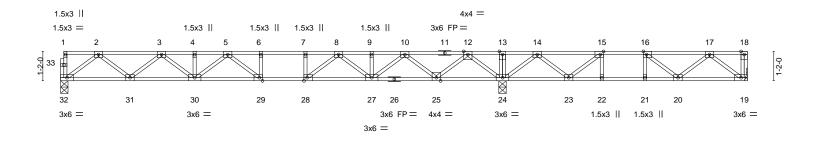


Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
J1024-5802	F06	FLOOR	4	1	l69177180
J1024-5602	F06	PLOOR	4	'	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:48 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







⊢	2-9-0		-10-12		17-6-4	20-1-12	24-5-12	27-2-12
	2-9-0		!-1-12	<u> </u>	2-7-8	2-7-8	4-4-0	2-9-0
Plate Offs	ets (X,Y)	[15:0-1-8,Edge], [16:0-1-8,Edge], [28:0-	1-8,Edge], [29:0-1-8,Edge]					
LOADING	(psf)	SPACING- 1-7-3	CSI.	DEFL.	in (loc)	l/defl L/d	d PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.52	Vert(LL)	-0.19 29-30	>999 480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.65	Vert(CT)	-0.25 29-30	>821 360	)	
BCLL	0.0	Rep Stress Incr YES	WB 0.48	Horz(CT)	0.04 24	n/a n/a	a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 138 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat)

Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-3-8, 19=Mechanical, 24=0-3-8

Max Uplift 19=-46(LC 3)

Max Grav 32=673(LC 10), 19=354(LC 4), 24=1465(LC 1)

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

TOP CHORD 2-3=-1387/0, 3-4=-2244/0, 4-5=-2244/0, 5-6=-2443/0, 6-7=-2443/0, 7-8=-2440/0, 7-8=-2440/0, 7-8=-2440/0,

8-9=-1653/0, 9-10=-1653/0, 10-12=-379/85, 12-13=0/1699, 13-14=0/1699,

14-15=-290/862, 15-16=-655/475, 16-17=-570/201

**BOT CHORD** 31-32=0/839, 30-31=0/1914, 29-30=0/2445, 28-29=0/2443, 27-28=0/2079, 25-27=0/1107,

24-25=-630/0, 23-24=-1153/0, 22-23=-475/655, 21-22=-475/655, 20-21=-475/655,

2-32=-1051/0, 12-24=-1340/0, 2-31=0/713, 12-25=0/1004, 3-31=-685/0, 10-25=-972/0,

3-30=0/421, 10-27=0/723, 5-30=-257/0, 8-27=-572/0, 5-29=-236/251, 8-28=0/643,

7-28=-285/0, 17-19=-536/70, 14-24=-864/0, 14-23=0/620, 16-20=-108/350,

15-23=-760/0

### NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 19.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



October 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

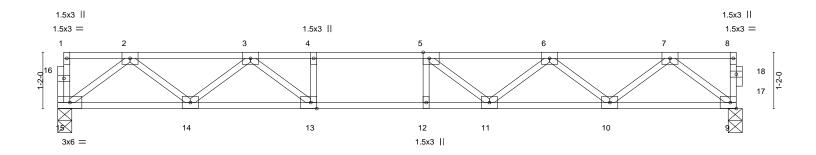
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
14004 5000	F07				l69177181
J1024-5802	F07	Floor	2	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:48 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





			14-2-8 14-2-8	
Plate Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.17 11-12 >981 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.22 11-12 >741 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Grav 15=758(LC 1), 9=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1513/0, 3-4=-2487/0, 4-5=-2487/0, 5-6=-2321/0, 6-7=-1504/0

14-15=0/940, 13-14=0/2080, 12-13=0/2487, 11-12=0/2487, 10-11=0/2084, 9-10=0/896 **BOT CHORD** WEBS 2-15=-1177/0, 2-14=0/746, 3-14=-738/0, 3-13=0/706, 4-13=-300/0, 7-9=-1144/0,

7-10=0/791, 6-10=-755/0, 6-11=0/389, 5-11=-426/15

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.





Job Truss Truss Type Qty Lot 1 Heritage @ Neills Creek 169177182 Floor J1024-5802 F08 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:48 2024 Page 1

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

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

except end verticals.

ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-11-0 0<sub>11</sub>8

Scale = 1:23.1

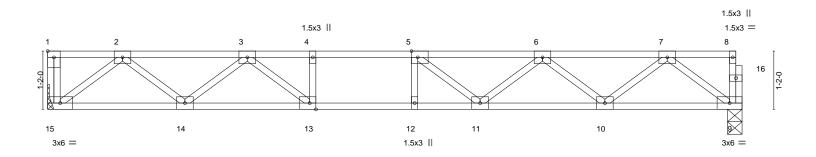


Plate Offsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [13:0-1-	8,Edge]	13-11-0	·
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.48	DEFL. in (loc) I/defl L/d Vert(LL) -0.15 11-12 >999 480	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.78 WB 0.36	Vert(CT) -0.20 11-12 >836 360 Horz(CT) 0.03 9 n/a n/a	W120 21,1100
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

13-11-0

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 15=Mechanical, 9=0-3-8 Max Grav 15=752(LC 1), 9=745(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1483/0, 3-4=-2411/0, 4-5=-2411/0, 5-6=-2271/0, 6-7=-1501/0

**BOT CHORD** 14-15=0/924, 13-14=0/2034, 12-13=0/2411, 11-12=0/2411, 10-11=0/2059, 9-10=0/916 WEBS

2-15=-1159/0, 2-14=0/728, 3-14=-717/0, 3-13=0/658, 4-13=-270/0, 7-9=-1146/0,

7-10=0/763, 6-10=-725/0, 6-11=0/358, 5-11=-387/39

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.



October 29,2024



Job Truss Truss Type Qty Lot 1 Heritage @ Neills Creek 169177183 J1024-5802 F09 Floor 3

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:49 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

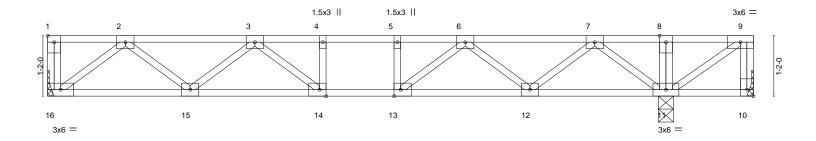
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 11-12.

1-3-0 1-3-12 1-3-12

Scale = 1:22.2



L			11-11-4		1 13	0-7-0
			11-11-4		1	-8-4
Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [10:Edge,0-1-8], [1	3:0-1-8,Edge], [14:0-1-8,Edge			
LOADING TCLL	40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.32	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.06         14-15         >999         480	PLATES GRI MT20 244	
TCDL BCLL	10.0 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.39 WB 0.33	Vert(CT) -0.08 14-15 >999 360 Horz(CT) 0.01 10 n/a n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 72 lb F	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

11\_11\_/

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=Mechanical, 16=Mechanical, 11=0-3-8

Max Uplift 10=-590(LC 3)

Max Grav 16=569(LC 3), 11=1435(LC 1)

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

9-10=0/588, 2-3=-1044/0, 3-4=-1361/0, 4-5=-1361/0, 5-6=-1361/0, 6-7=-518/0,

7-8=0/891, 8-9=0/891

15-16=0/686, 14-15=0/1351, 13-14=0/1361, 12-13=0/1040 **BOT CHORD** 

WFBS 2-16=-861/0, 2-15=0/466, 3-15=-399/0, 7-11=-1098/0, 7-12=0/696, 6-12=-683/0,

6-13=0/490, 9-11=-1071/0

### NOTES-

TOP CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 10.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.





Job Truss Truss Type Qty Lot 1 Heritage @ Neills Creek 169177184 Floor F10 J1024-5802 5 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:49 2024 Page 1

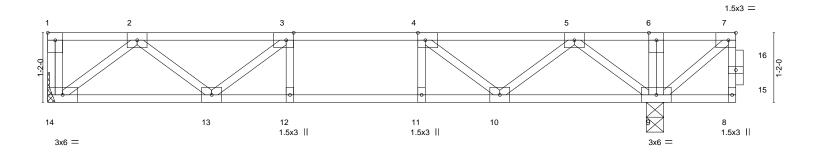
Comtech, Inc, Fayetteville, NC - 28314,

ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

1-3-0 2-1-0 1-1-0 - <sup>0</sup>-1<sub>1</sub>8

Scale = 1:19.3



		10-2-8 10-2-8		10-4-0 11-8-0 0-1-8 1-4-0
Plate Offsets (X,Y)	[1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,	Edge], [7:0-1-8,Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         NO	CSI. TC 0.46 BC 0.61 WB 0.26	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.07 12-13         >999         480           Vert(CT)         -0.09 12-13         >999         360           Horz(CT)         0.01         9         n/a         n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 lb FT = 20%F, 11%E

TOP CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 14=Mechanical, 9=0-3-8 Max Grav 14=538(LC 3), 9=1154(LC 1)

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

2-3=-958/0, 3-4=-1240/0, 4-5=-880/147, 5-6=0/547, 6-7=0/546

**BOT CHORD** 13-14=0/648, 12-13=0/1240, 11-12=0/1240, 10-11=0/1240, 9-10=-332/528 WEBS 2-14=-813/0, 2-13=0/403, 3-13=-401/71, 5-9=-881/0, 5-10=0/538, 4-10=-630/0,

7-9=-706/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

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

Vert: 8-14=-10, 1-7=-100

Concentrated Loads (lb) Vert: 7=-400



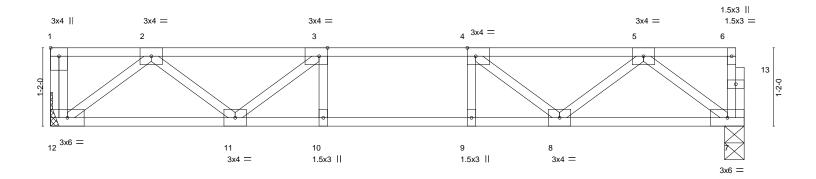


Job Truss Truss Type Qty Lot 1 Heritage @ Neills Creek 169177185 J1024-5802 Floor F11 5 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:50 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

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2-1-0 0<sub>1</sub>1<sub>7</sub>8

Scale = 1:17.2



10-4-0 Plate Offsets (X,Y)--[1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.24 Vert(LL) -0.06 8-9 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.42 Vert(CT) -0.07 9 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.01 n/a n/a BCDL Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-S Weight: 52 lb

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

REACTIONS. (size) 12=Mechanical, 7=0-3-8 Max Grav 12=555(LC 1), 7=548(LC 1)

1-3-0

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

TOP CHORD 2-3=-1000/0, 3-4=-1319/0, 4-5=-1000/0 **BOT CHORD** 

11-12=0/667, 10-11=0/1319, 9-10=0/1319, 8-9=0/1319, 7-8=0/666 2-12=-836/0, 2-11=0/434, 3-11=-449/0, 5-7=-833/0, 5-8=0/434, 4-8=-449/0 WEBS

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
- 5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
					I69177186
J1024-5802	FKW1	Floor Supported Gable	1	1	
					Job Reference (optional)

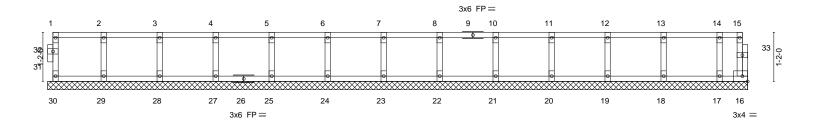
Fayetteville, NC - 28314, Comtech, Inc,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:50 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0<sub>-1</sub>1<sub>-8</sub>



Scale = 1:27.4



	16-8-0 16-8-0						
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.06	DEFL. Vert(LL)	in (loc)	l/defl L/d n/a 999	PLATES GRIP MT20 244/190	
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.01 WB 0.03	Vert(CT)	n/a - 0.00 16	n/a 999 n/a n/a	W1120 244/130	,
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R	,			Weight: 70 lb FT =	= 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.3(flat) **WEBS** 

**OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

**BOT CHORD** 

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

REACTIONS. All bearings 16-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



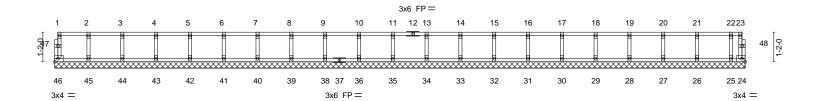
Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
J1024-5802	FKW2	Floor Supported Gable	1	1	l69177187
31024-3002	I KWZ	Thou Supported Gable	'	'	Job Reference (optional)

0-<u>1</u>-8

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:50 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-<u>1</u>-8

Scale = 1:45.4



<u> </u>						27-2-12 27-2-12						<del></del>
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-R	, ,					Weight: 113 lb	FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.3(flat) **WEBS OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 27-2-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 39, 38, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 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 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek	٦
					l69177188	i
J1024-5802	FKW3	Floor Supported Gable	1	1		
					Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:51 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

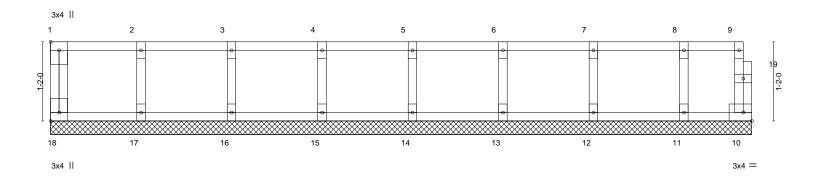
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0<sub>1</sub>1<sub>7</sub>8

Scale = 1:17.0



GRIP
244/190
b FT = 20%F, 11%E
=

**BRACING-**

TOP CHORD

**BOT CHORD** 

10-4-0

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

2x4 SP No.1(flat)

TOP CHORD 2x4 SP No.1(flat)

REACTIONS. All bearings 10-4-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

### NOTES-

LUMBER-

BOT CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
					I69177189
J1024-5802	FKW4	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:51 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0\_1\_8

Scale = 1:16.5

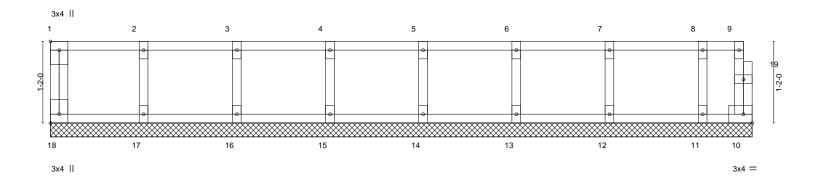


Plate Offsets (X,Y) [1:Edge,0-1-8], [18:Edge,0-1-8]												
LOADING	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-R	, ,					Weight: 44 lb	FT = 20%F, 11%E

**BRACING-**

10-0-8

TOP CHORD 2x4 SP No.1(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) 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. All bearings 10-0-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

### NOTES-

LUMBER-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 1 Heritage @ Neills Creek
					I69177190
J1024-5802	FKW5	Floor Supported Gable	1	1	
					Job Reference (optional)

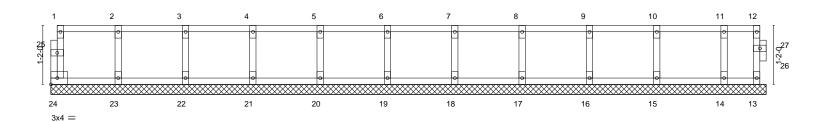
Fayetteville, NC - 28314, Comtech, Inc,

0118

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 11:27:52 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0<sub>1</sub>1<sub>1</sub>8

Scale = 1:22.8



14-2-0 14-2-0									
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00	CSI. TC 0.06 BC 0.01	DEFL. Vert(LL) n. Vert(CT) n.	′a -	defl L/d n/a 999 n/a 999	PLATES MT20	<b>GRIP</b> 244/190		
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT) 0.0	0 13	n/a n/a	Weight: 60 lb	FT = 20%F, 11%E		

LUMBER-BRACING-

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

2x4 SP No.3(flat) 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

**BOT CHORD** 

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

REACTIONS. All bearings 14-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.





### Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

## Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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### MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.