

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1024-5776

Lot 2 Heritage @ Neills Creek

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

Pages or sheets covered by this seal: I69170976 thru I69170985

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

North Carolina COA: C-0844



October 29,2024

Gilbert, Eric

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 MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or 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.

Job	Truss	Truss Type	Qty	Ply	Lot 2 Heritage @ Neills Creek
					I69170976
J1024-5776	F01	Floor	6	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:09 2024 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

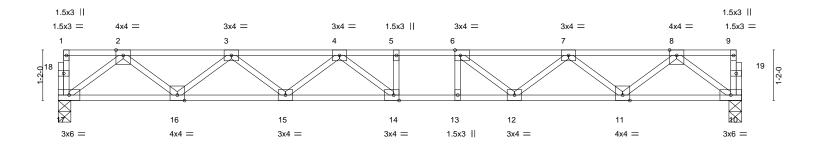
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 1-3-0 $H \vdash$

1-3-8

0-1-8 Scale = 1:26.6



			15-9-8	
Plate Offsets (X,Y) [6	6:0-1-8,Edge], [14:0-1-8,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 0.37	Vert(LL) -0.18 14 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.25 14-15 >739 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.05 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 80 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

15-9-8

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 17=0-3-8, 10=0-3-8 Max Grav 17=849(LC 1), 10=849(LC 1)

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

TOP CHORD 2-3=-1757/0, 3-4=-2785/0, 4-5=-3148/0, 5-6=-3148/0, 6-7=-2780/0, 7-8=-1759/0

BOT CHORD 16-17=0/1055, 15-16=0/2429, 14-15=0/3102, 13-14=0/3148, 12-13=0/3148, 11-12=0/2425,

10-11=0/1056

2-17=-1320/0, 2-16=0/915, 3-16=-875/0, 3-15=0/464, 4-15=-412/0, 4-14=-208/381,

8-10=-1322/0, 8-11=0/915, 7-11=-867/0, 7-12=0/505, 6-12=-599/0

NOTES-

WEBS

- 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) 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.





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 2 Heritage @ Neills Creek
J1024-5776	F02	FLOOR	6	_	169170977
J1024-5776	F02	FLOOR	ь	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:09 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?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.



1-3-8

0-1-8 Scale = 1:26.6

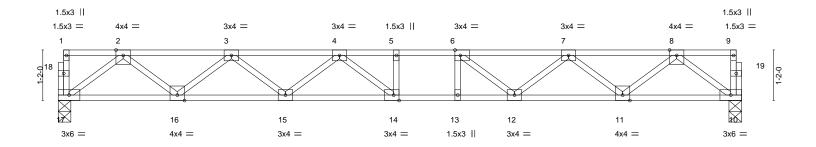


Plate Offsets (X,Y)--[6:0-1-8,Edge], [14:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defl L/d **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.37 Vert(LL) -0.18 14 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.70 Vert(CT) -0.25 14-15 >739 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.44 0.05 Horz(CT) 10 n/a n/a **BCDL** Code IRC2015/TPI2014 Weight: 80 lb FT = 20%F, 11%E 5.0 Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 17=0-3-8, 10=0-3-8 Max Grav 17=849(LC 1), 10=849(LC 1)

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

2-3=-1757/0, 3-4=-2785/0, 4-5=-3148/0, 5-6=-3148/0, 6-7=-2780/0, 7-8=-1759/0

16-17=0/1055, 15-16=0/2429, 14-15=0/3102, 13-14=0/3148, 12-13=0/3148, 11-12=0/2425, BOT CHORD

10-11=0/1056

2-17=-1320/0, 2-16=0/915, 3-16=-875/0, 3-15=0/464, 4-15=-412/0, 4-14=-208/381,

8-10=-1322/0, 8-11=0/915, 7-11=-867/0, 7-12=0/505, 6-12=-599/0

NOTES-

WEBS

- 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) 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 2 Heritage @ Neills Creek	٦
J1024-5776	F02	FLOOR			l69170978	3
J1024-5776	F03	FLOOR	2	1	Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:10 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 H | 1-3-0 0-1-8 Scale = 1:33.8 2-4-8

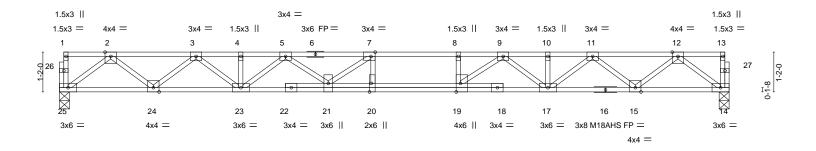


Plate Offsets (X,Y)--[7:0-1-8,Edge], [19:0-3-0,Edge], [20:0-3-0,Edge] **PLATES GRIP** LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.29 Vert(LL) -0.26 20 >884 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.56 Vert(CT) -0.3620 >644 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.47 Horz(CT) 0.05 14 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 107 lb FT = 20%F. 11%E 5.0 Matrix-S

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP 2400F 2.0E(flat) except end verticals.

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

REACTIONS. (size) 25=0-3-8, 14=0-3-8 Max Grav 25=847(LC 1), 14=847(LC 1)

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

2-3=-1829/0, 3-4=-3076/0, 4-5=-3076/0, 5-7=-3887/0, 7-8=-4085/0, 8-9=-4085/0, TOP CHORD

9-10=-3070/0, 10-11=-3070/0, 11-12=-1832/0 BOT CHORD

24-25=0/1070, 23-24=0/2548, 21-23=0/3601, 20-21=0/4085, 19-20=0/4085, 17-19=0/3601,

15-17=0/2541, 14-15=0/1072 2-25=-1340/0, 2-24=0/988, 3-24=-936/0, 3-23=0/673, 12-14=-1343/0, 12-15=0/989, WFBS

11-15=-923/0, 11-17=0/675, 9-17=-677/0, 9-19=0/777, 5-23=-671/0, 5-21=0/439,

7-21=-566/114

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

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Job Truss Truss Type Qty Ply Lot 2 Heritage @ Neills Creek 169170979 J1024-5776 F04 **FLOOR** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:10 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

except end verticals.

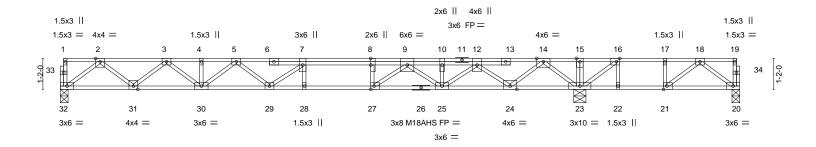
0-1-8 HI-3-0

2-5-4

10-6-12

1-7-12

0-1-8 Scale = 1:43.4



				19-6-	2						23-7-0	
ı	19-6-12						ı	6-0-4				
Plate Offs	ets (X,Y)	[8:0-3-0,0-0-0], [16:0-1-8	,Edge], [21:0-	1-8,Edge], [27	':0-1-8,Edge	e]						
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.27	28	>863	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.37	28	>629	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	23	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	<-S						Weight: 141 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

REACTIONS. (size) 32=0-3-8, 20=0-3-8, 23=0-5-8

Max Uplift 20=-157(LC 3)

2x4 SP No.3(flat)

Max Grav 32=787(LC 10), 20=208(LC 4), 23=1394(LC 1)

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

2-3=-1675/0, 3-4=-2798/0, 4-5=-2798/0, 5-7=-3346/0, 7-8=-3486/0, 8-9=-3486/0, TOP CHORD

9-10=-2399/0, 10-12=-2399/0, 12-14=-843/0, 14-15=0/1329, 15-16=0/1329,

16-17=-182/673, 17-18=-182/673

31-32=0/990, 30-31=0/2331, 29-30=0/3164, 28-29=0/3486, 27-28=0/3486, 25-27=0/2879, **BOT CHORD**

24-25=0/1710, 22-23=-673/182, 21-22=-673/182

WEBS 2-32=-1240/0, 2-31=0/892, 3-31=-855/0, 3-30=0/596, 5-30=-467/0, 5-29=0/387,

7-29=-409/58, 14-23=-1485/0, 14-24=0/1127, 12-24=-1118/0, 12-25=0/865, 9-25=-612/0,

9-27=0/977, 8-27=-509/0, 18-20=-254/299, 18-21=-554/0, 16-23=-1050/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 20.
- 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 2 Heritage @ Neills Creek 169170980 J1024-5776 FLOOR F05 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:11 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

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Structural wood sheathing directly applied or 2-2-0 oc purlins,

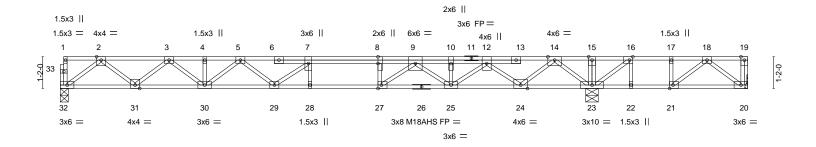
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



2-5-4

Scale = 1:42.4



2 ' 5-8-12 -1-8,Edge]
-1-8,Edge]
DEFL. in (loc) I/defl L/d PLATES GRIP 0.91 Vert(LL) -0.26 28 >884 480 MT20 244/190 0.76 Vert(CT) -0.36 28 >645 360 M18AHS 186/179 0.54 Horz(CT) 0.06 23 n/a n/a
)

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat)

(size) 32=0-3-8, 20=Mechanical, 23=0-5-8

Max Uplift 20=-209(LC 3)

Max Grav 32=775(LC 10), 20=183(LC 4), 23=1446(LC 1)

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

2-3=-1644/0, 3-4=-2736/0, 4-5=-2736/0, 5-7=-3251/0, 7-8=-3361/0, 8-9=-3361/0,

 $9\text{-}10\text{=-}2221/0,\ 10\text{-}12\text{=-}2221/0,\ 12\text{-}14\text{=-}645/0,\ 14\text{-}15\text{=}0/1533,\ 15\text{-}16\text{=}0/1533,}$

16-17=-101/811, 17-18=-101/811

31-32=0/974, 30-31=0/2286, 29-30=0/3091, 28-29=0/3361, 27-28=0/3361, 25-27=0/2718, **BOT CHORD** 24-25=0/1523, 23-24=-339/0, 22-23=-811/101, 21-22=-811/101, 20-21=-308/166

2-32=-1219/0, 2-31=0/873, 3-31=-836/0, 3-30=0/575, 5-30=-453/0, 5-29=0/363,

7-29=-379/83, 14-23=-1504/0, 14-24=0/1140, 12-24=-1131/0, 12-25=0/876, 9-25=-631/0,

9-27=0/1006, 8-27=-524/0, 18-20=-209/387, 16-23=-1111/0, 18-21=-642/0,

17-21=0/266

NOTES-

WEBS

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 20.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



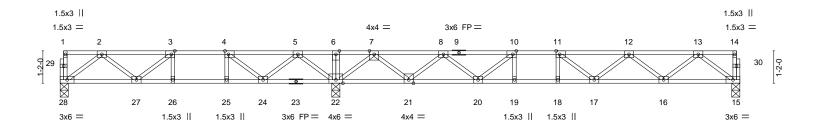
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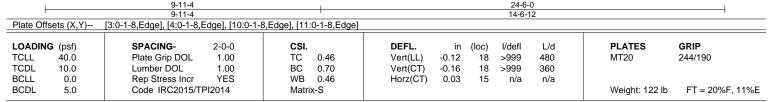


Job	Truss	Truss Type	Qty	Ply	Lot 2 Heritage @ Neills Creek
J1024-5776	F06	FLOOR	5	1	l69170981
31024-3770	1 00	I LOOK	٦		Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:11 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(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 6-0-0 oc bracing.

REACTIONS. (size) 28=0-3-8, 22=0-3-8, 15=0-3-8

Max Grav 28=470(LC 3), 22=1572(LC 1), 15=713(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-800/29, 3-4=-962/207, 4-5=-525/536, 5-6=0/1437, 6-7=0/1437, 7-8=-760/44,

8-10=-1818/0, 10-11=-2226/0, 11-12=-2111/0, 12-13=-1421/0

BOT CHORD $27 - 28 = 0/576,\ 26 - 27 = -207/962,\ 25 - 26 = -207/962,\ 24 - 25 = -207/962,\ 22 - 24 = -792/129,$

21-22=-344/48, 20-21=0/1444, 19-20=0/2226, 18-19=0/2226, 17-18=0/2226,

16-17=0/1938. 15-16=0/874

WEBS $2-28 = -720/0, \ 2-27 = -84/292, \ 5-22 = -981/0, \ 5-24 = 0/655, \ 4-24 = -775/0, \ 7-22 = -1371/0, \ 7-24 = -1371/0,$

7-21=0/975, 8-21=-935/0, 8-20=0/541, 13-15=-1093/0, 13-16=0/712, 12-16=-673/0,

12-17=0/260, 11-17=-272/121, 10-20=-644/0

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) 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.



October 29,2024



Job	Truss	Truss Type	Qty	Ply	Lot 2 Heritage @ Neills Creek
14004 5770	F07	Flace			169170982
J1024-5776	F07	Floor	2	1	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

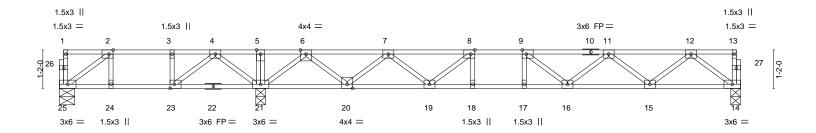
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:12 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

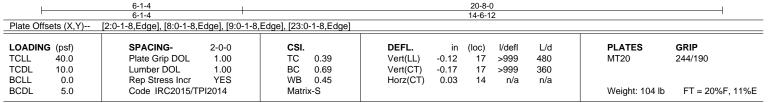




Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.





TOP CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 25=0-5-8, 21=0-3-8, 14=0-3-8

Max Uplift 25=-61(LC 4)

Max Grav 25=242(LC 3), 21=1378(LC 1), 14=726(LC 4)

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

TOP CHORD 4-5=0/1059, 5-6=0/1059, 6-7=-908/0, 7-8=-1929/0, 8-9=-2314/0, 9-11=-2174/0,

11-12=-1453/0

BOT CHORD $21-23=-568/0,\ 19-20=0/1575,\ 18-19=0/2314,\ 17-18=0/2314,\ 16-17=0/2314,\ 15-16=0/1984,$

14-15=0/891

2-25=-301/279, 4-21=-699/0, 4-23=0/601, 3-23=-284/0, 12-14=-1115/0, 12-15=0/731,

11-15=-691/0, 11-16=0/295, 9-16=-322/87, 6-21=-1322/0, 6-20=0/944, 7-20=-894/0,

7-19=0/494, 8-19=-611/0

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 25.
- 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 2 Heritage @ Neills Creek 169170983 Floor J1024-5776 F08 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:12 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-6-6 3 1.5x3 || 1 3x4 || 3x4 = Scale = 1:8.6 3x4 =

BRACING-

TOP CHORD

BOT CHORD

Plate Off	rsets (X,Y)	[1:Edge,0-1-8], [6:0-1-8,0-1-8]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.12	Vert(LL) 0.00 5 **** 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.10	Vert(CT) -0.02 4-5 >999 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 4 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 21 lb FT = 20%F, 11%E

LUMBER-

REACTIONS.

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

> (size) 5=Mechanical, 4=0-3-8 Max Grav 5=182(LC 1), 4=176(LC 1)

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

3x6 =

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.



3x6 =

Structural wood sheathing directly applied or 3-6-12 oc purlins,

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

except end verticals.



Job	Truss	Truss Type	Qty	Ply	Lot 2 Heritage @ Neills Creek
14004 5770	FIGNA				I69170984
J1024-5776	FKW1	Floor Supported Gable	1	1	Job Reference (optional)

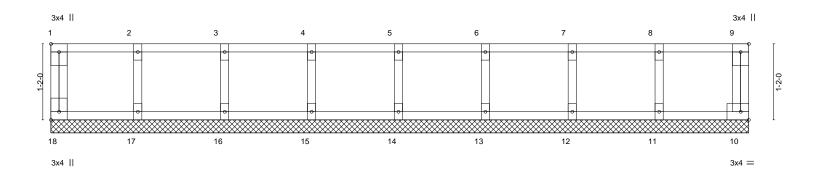
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:12 2024 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

except end verticals.

Scale = 1:17.7



	10-8-8							
Plate Offsets (X,Y)	[1:Edge,0-1-8], [18: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 0.06	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 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 47 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

10-8-8

OTHERS 2x4 SP No.3(flat)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

TOP CHORD 2x4 SP No.1(flat)

REACTIONS. All bearings 10-8-8. (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-

WEBS

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 Lot 2 Heritage @ Neills Creek 169170985 J1024-5776 FKW2 Floor Supported Gable Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Oct 25 09:20:13 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4 1.5x3 || 3 1.5x3 || 1 3x4 || 2 1.5x3 || Scale = 1:8.6 3x4 =6

> 3x4 || 1.5x3 || 1.5x3 || 3x4 =

Plate Offsets (X,Y)	[1:Edge,0-1-8], [8:Edge,0-1-8], [9:0-1-8,0-1-8]

LOADIN	· /	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	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-R						Weight: 18 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

Structural wood sheathing directly applied or 3-6-12 oc purlins,

5

except end verticals.

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

REACTIONS. All bearings 3-6-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 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) 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.





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

₹

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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- 9 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.