

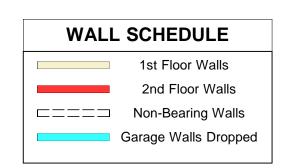
Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 19.2"oc U.N.O..

Dimension Notes

1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

All Walls Shown Are Considered Load Bearing

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards



	Conne	ctor Info	rmati	ion	Nail Information			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss		
	JUS414	USP	51	NA	16d/3-1/2"	16d/3-1/2"		
	IHFL3514	USP	12	NA	16d/3-1/2"	16d/3-1/2"		
	HD416	USP	1	NA	16d/3-1/2"	16d/3-1/2"		
$\bigcirc$	MSH422	USP	3	Varies	10d/3"	10d/3"		

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
FB4	18' 0"	1-3/4"x 14" LVL Kerto-S	1	1	FF
FB5	18' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
FB6	15' 0"	1-3/4"x 14" LVL Kerto-S	1	1	FF
FB7	14' 0"	1-3/4"x 14" LVL Kerto-S	4	4	FF
FB8	9' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
FB8	8' 0"	1-3/4"x 14" LVL Kerto-S	1	1	FF
FB9	6' 0"	1-3/4"x 14" LVL Kerto-S	1	1	FF
FB9	6' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
FB10	21' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

### ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

dearing reactions less than or equal to 300# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Codrequirements ) to determine the minimum foundatio size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attache Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Johnnie Baggett

Johnnie Baggett

LOAD CHART FOR JACK STUDS

	(B	ASED	01	N TABLE	5 R502.	.5(1) & (l	p))	
NUA	MBER C	)F JA		STUDS F			A END OF	=
(UP TO)	REQ'D STUDS FOR (2) PLY HEADER			END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
00	1			2550	1		3400	1
-00	2			5100	2		6800	2
.00	3			7650	3		10200	3
00	4			10200	4		13600	4
00	5			12750	5		17000	5
200	6			15300	6			
900	7							
500	8							
300	9							

CITY / CO.	Lillington / Harnett
ADDRESS	757 Beacon Hill Road
MODEL	Floor
DATE REV.	5/19/25
DRAWN BY	Johnnie Baggett
SALES REP.	Johnnie Baggett

BUILDERNew Home IncJOB NAMELot 42 Duncan's CreekPLANThe Garner - Craftsman - FaceSEAL DATESeal DateQUOTE #B0325-1177JOB #J0525-2660

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.con



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2660

Lot 42 Duncan's 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: I73598603 thru I73598626

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 20,2025

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.

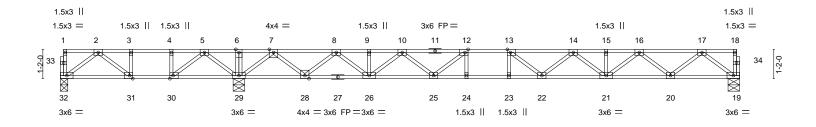
Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598603
J0525-2660	F01	Floor	4	1	
					Job Reference (optional)

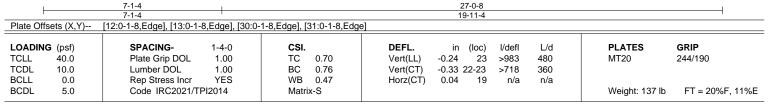
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:06 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

HI\_1-3-0 1-5-12

1-6-12





LUMBER-**BRACING-**

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

WEBS 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 6-0-0 oc bracing.

REACTIONS. (size) 32=0-3-8, 29=0-5-8, 19=0-5-8

Max Uplift 32=-165(LC 4)

Max Grav 32=179(LC 3), 29=1309(LC 1), 19=642(LC 7)

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

 $2\text{-}3\text{=-}175/662,\ 3\text{-}4\text{=-}175/662,\ 4\text{-}5\text{=-}175/662,\ 5\text{-}6\text{=-}0/1645,\ 6\text{-}7\text{=-}0/1645,\ 8\text{-}9\text{=-}1535/0,}$ TOP CHORD

9-10=-1535/0, 10-12=-2325/0, 12-13=-2675/0, 13-14=-2654/0, 14-15=-2255/0,

15-16=-2255/0, 16-17=-1360/0

**BOT CHORD** 30-31=-662/175, 29-30=-1182/0, 28-29=-638/0, 26-28=0/964, 25-26=0/2021,

24-25=0/2675, 23-24=0/2675, 22-23=0/2675, 21-22=0/2570, 20-21=0/1891, 19-20=0/806 **WEBS** 2-32=-222/302, 2-31=-537/0, 5-29=-727/0, 5-30=0/808, 4-30=-368/0, 17-19=-1009/0, 17-20=0/722, 16-20=-691/0, 16-21=0/465, 14-21=-401/0, 13-22=-257/192, 7-29=-1264/0,

7-28=0/992, 8-28=-956/0, 8-26=0/741, 10-26=-630/0, 10-25=0/438, 12-25=-564/0

### 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 32.
- 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.





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 42 Duncan's Creek
		5,000			173598604
J0525-2660	F02	FLOOR	1	1	
					Job Reference (optional)

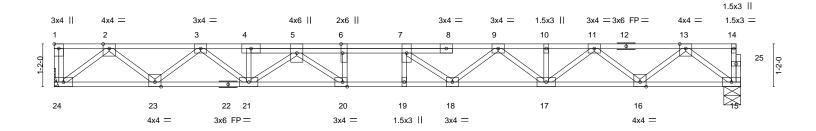
1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:07 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

1-6-0

Scale = 1:31.5



			18-9-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [6:0-3-0,Edge], [20:0-1-8]	B,Edge]		
LOADING (psf)	<b>SPACING-</b> 1-7-0	CSI.	DEFL. in (loc) I/defl L/d PI	LATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.30	Vert(LL) -0.25 19 >887 480 M	T20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.34 19 >646 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.07 15 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S	w	/eight: 104 lb FT = 20%F, 11%E
2022 0.0	0000 11102021/11 12011	l man se		org

18-9-0

LUMBER-BRACING-

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

**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) 24=Mechanical, 15=0-5-8 Max Grav 24=806(LC 1), 15=801(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1712/0, 3-4=-2881/0, 4-5=-2884/0, 5-6=-3722/0, 6-7=-3722/0, 7-9=-3493/0,

9-10=-2881/0, 10-11=-2881/0, 11-13=-1711/0

BOT CHORD 23-24=0/1009, 21-23=0/2388, 20-21=0/3404, 19-20=0/3722, 18-19=0/3722, 17-18=0/3251,

16-17=0/2387, 15-16=0/1008

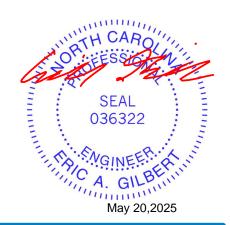
WFBS 2-24=-1265/0, 2-23=0/915, 3-23=-880/0, 3-21=0/629, 13-15=-1263/0, 13-16=0/915,

11-16=-880/0, 11-17=0/630, 9-17=-473/0, 9-18=0/412, 5-21=-653/0, 5-20=-32/643,

6-20=-329/7, 7-18=-445/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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.





Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598605
J0525-2660	F03	FLOOR	8	1	
					Job Reference (optional)

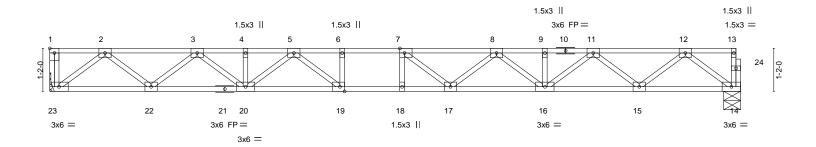
1-6-0

Comtech, Inc, Fayetteville, NC - 28314,

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:07 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:31.3



	2-9-0			10-10-8					10-	0-0		8-9-0
	2-9-0	ı		8-1-8			1		5-1	1-8		2-9-0
Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [7:0-1-8,E	Edge], [19:0-1	-8,Edge]								
LOADING	G (psf)	SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.24	18	>919	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.33	18	>670	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TI	PI2014	Matrix	∢-S	` ′					Weight: 96 lb	FT = 20%F, 11%E

LUMBER-BRACING-

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.

REACTIONS. (size) 23=Mechanical, 14=0-5-8 Max Grav 23=678(LC 1), 14=674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1443/0, 3-4=-2422/0, 4-5=-2422/0, 5-6=-2980/0, 6-7=-2980/0, 7-8=-2896/0,

8-9=-2418/0, 9-11=-2418/0, 11-12=-1442/0

BOT CHORD  $22 - 23 = 0/850,\ 20 - 22 = 0/2009,\ 19 - 20 = 0/2741,\ 18 - 19 = 0/2980,\ 17 - 18 = 0/2980,\ 16 - 17 = 0/2768,$ 

15-16=0/2012, 14-15=0/849

WFBS 12-14=-1063/0, 2-23=-1067/0, 12-15=0/772, 2-22=0/771, 11-15=-742/0, 3-22=-737/0,

11-16=0/519, 3-20=0/528, 8-16=-446/0, 5-20=-407/0, 8-17=0/280, 5-19=-7/485,

### 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.





Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598606
J0525-2660	F04	FLOOR	1	1	
					Job Reference (optional)

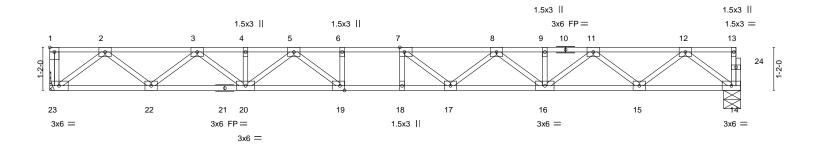
Fayetteville, NC - 28314, Comtech, Inc.

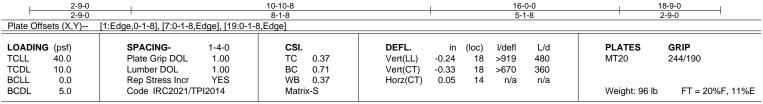
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:07 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-6-0

Scale = 1:31.3





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) 23=Mechanical, 14=0-5-8 Max Grav 23=678(LC 1), 14=674(LC 1)

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

TOP CHORD 2-3=-1443/0, 3-4=-2422/0, 4-5=-2422/0, 5-6=-2980/0, 6-7=-2980/0, 7-8=-2896/0,

8-9=-2418/0, 9-11=-2418/0, 11-12=-1442/0

BOT CHORD  $22 - 23 = 0/850,\ 20 - 22 = 0/2009,\ 19 - 20 = 0/2741,\ 18 - 19 = 0/2980,\ 17 - 18 = 0/2980,\ 16 - 17 = 0/2768,$ 

15-16=0/2012, 14-15=0/849

WFBS 12-14=-1063/0, 2-23=-1067/0, 12-15=0/772, 2-22=0/771, 11-15=-742/0, 3-22=-737/0,

 $11-16=0/519,\ 3-20=0/528,\ 8-16=-446/0,\ 5-20=-407/0,\ 8-17=0/280,\ 5-19=-7/485,$ 

### 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.



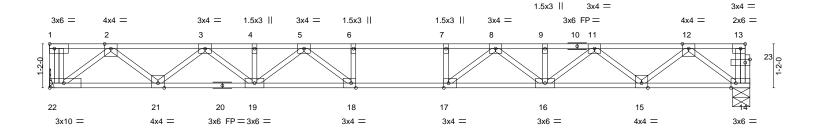


Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598607
J0525-2660	F05	FLOOR	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:08 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-3-0 2-4-0

Scale = 1:30.6



	18-7-0										
Plate Offs	sets (X,Y)	[13:0-1-8,Edge], [14:0-1-8	8,Edge], [17:0	)-1-8,Edge], [1	8:0-1-8,Ed	ge], [23:0-1-8,0-1-0]					
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	0.56	Vert(LL)	-0.26 17-18	>831	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.36 17-18	>604	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06 14	n/a	n/a		
BCDL	5.0	Code IRC2021/TF	PI2014	Matrix	-S					Weight: 96 lb	FT = 20%F, 11%E

18-7-0

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) 14=0-5-8, 22=Mechanical Max Grav 14=796(LC 1), 22=806(LC 1)

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

TOP CHORD 2-3=-1778/0, 3-4=-2915/0, 4-5=-2915/0, 5-6=-3501/0, 6-7=-3501/0, 7-8=-3501/0,

8-9=-2915/0, 9-11=-2915/0, 11-12=-1778/0

BOT CHORD 21-22=0/1090, 19-21=0/2439, 18-19=0/3263, 17-18=0/3501, 16-17=0/3262, 15-16=0/2439,

14-15=0/1089

WFBS 12-14=-1321/0, 12-15=0/897, 11-15=-861/0, 11-16=0/608, 8-16=-444/0, 8-17=-38/591,

7-17=-276/0, 2-22=-1328/0, 2-21=0/896, 3-21=-859/0, 3-19=0/608, 5-19=-444/0,

5-18=-38/591, 6-18=-276/0

### 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.



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 42 Duncan's Creek 173598608 Floor J0525-2660 F06 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

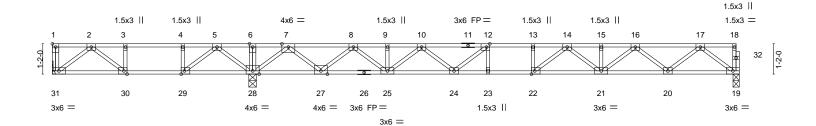
2-1-0

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:08 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 1-7-4 0-11-8

> > Scale = 1:44.3



		7-0-0	20-3-4					
		7-8-8	18-8-12					
Plate 0	Plate Offsets (X,Y) [1:Edge,0-1-8], [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge]							
LOAD	ING (psf)	<b>SPACING-</b> 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	40.0	Plate Grip DOL 1.00	TC 0.78	Vert(LL) -0.23 23 >974 480	MT20 244/190			
TCDL	10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.31 22-23 >717 360				
BCLL	0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.05 19 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 134 lb 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) 31=Mechanical, 28=0-3-8, 19=0-2-14

Max Uplift 31=-89(LC 4)

Max Grav 31=274(LC 3), 28=1416(LC 1), 19=744(LC 7)

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

TOP CHORD 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0, 8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0,

14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0

**BOT CHORD** 30-31=-149/284, 29-30=-488/367, 28-29=-969/13, 27-28=-329/0, 25-27=0/1454, 24-25=0/2533, 23-24=0/3035, 22-23=0/3035, 21-22=0/2883, 20-21=0/2171, 19-20=0/933

2-31=-357/187, 2-30=-433/106, 5-28=-748/0, 5-29=0/835, 4-29=-393/0, 7-28=-1391/0,

7-27=0/1071, 8-27=-1026/0, 8-25=0/761, 10-25=-653/0, 10-24=0/422, 12-24=-504/0,

17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 14-21=-378/0,

14-22=-115/428

### 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 at joint(s) 19.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 31.
- 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.



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 42 Duncan's Creek 173598609 J0525-2660 F07 **FLOOR** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

> 1-3-0 2-1-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:09 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

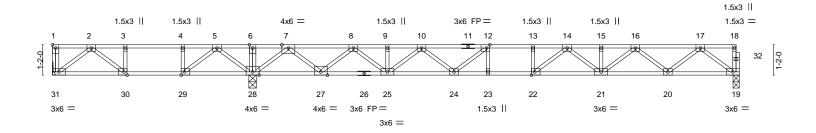
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-7-4 0-11-8

Scale = 1:44.3



<u> </u>		7-8-8	26-5-4					
		7-8-8		18-8-12	<u> </u>			
Plate Of	Plate Offsets (X,Y) [1:Edge,0-1-8], [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]							
LOADIN	IG (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	40.0	Plate Grip DOL 1.00	TC 0.78	Vert(LL) -0.23 23 >974 480	MT20 244/190			
TCDL	10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.31 22-23 >717 360				
BCLL	0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.05 19 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 134 lb FT = 20%F, 11%E			

TOP CHORD

**BOT CHORD** 

BRACING-LUMBER-

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

WEBS 2x4 SP No.3(flat)

(size) 31=Mechanical, 28=0-3-8, 19=0-2-14

Max Uplift 31=-89(LC 4)

Max Grav 31=274(LC 3), 28=1416(LC 1), 19=744(LC 7)

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

TOP CHORD 2-3=-367/488, 3-4=-367/488, 4-5=-367/488, 5-6=0/1438, 6-7=0/1438, 7-8=-682/0,

8-9=-2034/0, 9-10=-2034/0, 10-12=-2789/0, 12-13=-3035/0, 13-14=-3035/0,

14-15=-2587/0, 15-16=-2587/0, 16-17=-1565/0

**BOT CHORD** 30-31=-149/284, 29-30=-488/367, 28-29=-969/13, 27-28=-329/0, 25-27=0/1454,

24-25=0/2533, 23-24=0/3035, 22-23=0/3035, 21-22=0/2883, 20-21=0/2171, 19-20=0/933 2-31=-357/187, 2-30=-433/106, 5-28=-748/0, 5-29=0/835, 4-29=-393/0, 7-28=-1391/0,

7-27=0/1071, 8-27=-1026/0, 8-25=0/761, 10-25=-653/0, 10-24=0/422, 12-24=-504/0,

17-19=-1168/0, 17-20=0/824, 16-20=-788/0, 16-21=0/531, 14-21=-378/0,

14-22=-115/428

### NOTES-

**WEBS** 

REACTIONS.

- 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 at joint(s) 19.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 31.
- 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 42 Duncan's Creek 173598610 J0525-2660 F08-GR Floor Girder Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

2-1-0

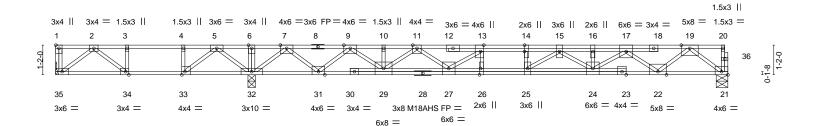
1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:10 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-7-4 0-<u>1</u>-8

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

Scale = 1:45.3



<del> </del>		7-8-8		20-5-4 18-8-12					
Dista Off	is sta (V V)		14.0 2 0 0 0 0 1 124.5 4 = 0 4 0	* * * * * * * * * * * * * * * * * * * *					
Plate Oil	Plate Offsets (X,Y) [1:Edge,0-1-8], [13:0-3-0,Edge], [14:0-3-0,0-0-0], [21:Edge,0-1-8], [26:0-3-0,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]								
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 0.74	Vert(LL) -0.26 25 >868 480	MT20 244/190				
TCDL	10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.35 25 >629 360	M18AHS 186/179				
BCLL	0.0	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.05 21 n/a n/a					
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 160 lb FT = 20%F, 11%E				

TOP CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP No.1(flat) \*Except\* except end verticals. 21-28: 2x4 SP 2400F 2.0E(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 35=Mechanical, 32=0-3-8, 21=0-5-8

Max Uplift 35=-110(LC 4)

Max Grav 35=307(LC 3), 32=1910(LC 1), 21=1454(LC 7)

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

 $2\text{-}3\text{=-}328/610,\ 3\text{-}4\text{=-}328/610,\ 4\text{-}5\text{=-}328/610,\ 5\text{-}6\text{=0}/1802,\ 6\text{-}7\text{=0}/1802,\ 7\text{-}9\text{=-}1191/0,\ 7\text{$ TOP CHORD

9-10=-3385/0, 10-11=-3385/0, 11-13=-4888/0, 13-14=-5709/0, 14-15=-5709/0,

15-16=-5554/0. 16-17=-5554/0. 17-19=-3287/0

**BOT CHORD** 34-35=-177/310, 33-34=-610/328, 32-33=-1216/0, 31-32=-297/23, 29-31=0/2365,

27-29=0/4182, 26-27=0/5709, 25-26=0/5709, 24-25=0/5794, 22-24=0/4938, 21-22=0/1818

2-35=-389/223, 2-34=-553/23, 3-34=-39/267, 5-32=-916/0, 5-33=0/1055, 4-33=-517/0, 19-21=-2277/0, 19-22=0/1907, 17-22=-2103/0, 17-24=0/751, 7-32=-1953/0, 7-31=0/1543,

9-31=-1550/0, 9-29=0/1295, 11-29=-1016/0, 11-27=0/931, 13-27=-1220/0,

15-24=-293/172, 15-25=-552/148, 13-26=0/316

### NOTES-

WEBS

- 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) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 35.
- 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.
- CAUTION, Do not erect truss backwards.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 742 lb down at 22-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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

Vert: 21-35=-10, 1-20=-100

Concentrated Loads (lb) Vert: 17=-662(B)



May 20,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598611
J0525-2660	F09	Floor	2	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

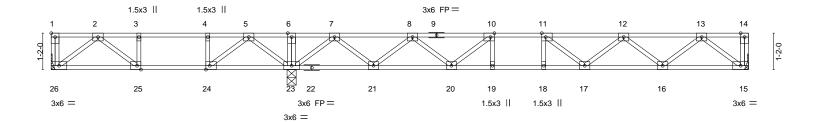
2-1-0

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:10 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-6-4

Scale = 1:36.9



L		1-0-0		22-7-7						
		7-8-8	ı	14-7-12						
Plate (	Plate Offsets (X,Y) [1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]									
-										
LOAD	ING (psf)	<b>SPACING-</b> 1-7-3	CSI.	DEFL. in (loc) I/defl L/d PLATES GR	IP .					
TCLL	40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.10 18 >999 480 MT20 244	1/190					
TCDL	10.0	Lumber DOL 1.00	BC 0.56	Vert(CT) -0.14 18 >999 360						
BCLL	0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03 15 n/a n/a						
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S	Weight: 112 lb F	T = 20%F, 11%E					

LUMBER-BRACING-

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) 26=Mechanical, 23=0-3-8, 15=Mechanical Max Grav 26=298(LC 3), 23=1120(LC 1), 15=597(LC 7)

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

TOP CHORD 2-3=-454/159, 3-4=-454/159, 4-5=-454/159, 5-6=0/781, 6-7=0/781, 7-8=-828/0,

8-10=-1632/0, 10-11=-1930/0, 11-12=-1798/0, 12-13=-1192/0

BOT CHORD 25-26=-25/317, 24-25=-159/454, 23-24=-427/156, 21-23=-22/266, 20-21=0/1356,

19-20=0/1930, 18-19=0/1930, 17-18=0/1930, 16-17=0/1630, 15-16=0/729

2-26=-398/31, 5-23=-594/0, 5-24=0/566, 4-24=-278/0, 13-15=-915/0, 13-16=0/602,

12-16=-570/0, 12-17=0/256, 11-17=-286/45, 7-23=-1054/0, 7-21=0/754, 8-21=-712/0,

8-20=0/389, 10-20=-477/0

### NOTES-

WFBS

- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
J0525-2660	F10	Floor	4	1	173598612
30323-2000	F10	FIOOI	4	'	Job Reference (optional)

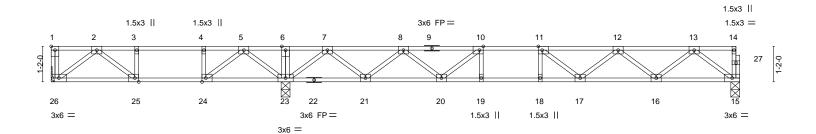
2-1-0

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:11 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 1-9-12 0-<u>1</u>-8

> > Scale = 1:37.9



-	7-8-8 7-8-8				22-7-12 14-11-4						
Plate Offsets (X,Y) [1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]											
TCDL	40.0 10.0	SPACING- Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI. TC BC	0.43 0.62	<b>DEFL.</b> Vert(LL) Vert(CT)	in (loc) -0.11 17-18 -0.15 17-18	>999	L/d 480 360	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2021/TF	YES PI2014	WB Matrix	0.37 -S	Horz(CT)	0.03 15	n/a	n/a	Weight: 113 lb	FT = 20%F, 11%E

LUMBER-BRACING-

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) 26=Mechanical, 23=0-3-8, 15=0-3-8 Max Grav 26=298(LC 3), 23=1135(LC 1), 15=605(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-453/167, 3-4=-453/167, 4-5=-453/167, 5-6=0/793, 6-7=0/793, 7-8=-842/0,

8-10=-1679/0, 10-11=-2002/0, 11-12=-1858/0, 12-13=-1222/0 BOT CHORD  $25 - 26 = -28/317, \ 24 - 25 = -167/453, \ 23 - 24 = -441/154, \ 21 - 23 = -20/264, \ 20 - 21 = 0/1384,$ 

 $19\hbox{-}20\hbox{=}0/2002,\ 18\hbox{-}19\hbox{=}0/2002,\ 17\hbox{-}18\hbox{=}0/2002,\ 16\hbox{-}17\hbox{=}0/1675,\ 15\hbox{-}16\hbox{=}0/744$ 

2-26=-397/35, 5-23=-598/0, 5-24=0/572, 4-24=-281/0, 7-23=-1076/0, 7-21=0/772,

8-21=-730/0, 8-20=0/413, 10-20=-511/0, 13-15=-931/0, 13-16=0/622, 12-16=-590/0,

12-17=0/273, 11-17=-306/31

### NOTES-

WFBS

- 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.





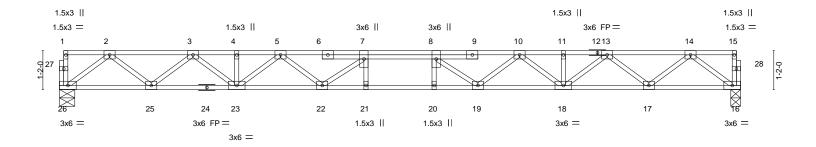
Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					I73598613
J0525-2660	F11	Floor	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:11 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



1-11-0

0-1-8 Scale = 1:34.5



20-5-0 20-5-0											
LOADING	G (psf)	SPACING-	1-4-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.27 20-21	>882	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.38 20-21	>640	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.07 16	n/a	n/a		
BCDL	5.0	Code IRC2021/Ti	PI2014	Matri	x-S					Weight: 109 lb	FT = 20%F, 11%E

LUMBER-BRACING-

2x4 SP 2400F 2.0E(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS

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. 26=0-5-8, 16=0-3-8 (size)

Max Grav 26=735(LC 1), 16=735(LC 1)

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

TOP CHORD 2-3=-1594/0, 3-4=-2732/0, 4-5=-2732/0, 5-7=-3405/0, 7-8=-3706/0, 8-10=-3405/0,

10-11=-2732/0, 11-13=-2732/0, 13-14=-1594/0

BOT CHORD  $25-26=0/929,\ 23-25=0/2235,\ 22-23=0/3109,\ 21-22=0/3706,\ 20-21=0/3706,\ 19-20=0/3706,\ 20-21$ 18-19=0/3109, 17-18=0/2235, 16-17=0/929

2-26=-1164/0, 2-25=0/865, 3-25=-835/0, 3-23=0/634, 14-16=-1164/0, 14-17=0/865,

13-17=-835/0, 13-18=0/634, 10-18=-482/0, 10-19=0/470, 8-19=-524/0, 5-23=-482/0,

5-22=0/470, 7-22=-524/0

### 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) 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 42 Duncan's Creek
10505 0000	F42	FLOOR			173598614
J0525-2660	F12	FLOOR	1	1	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:12 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-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:

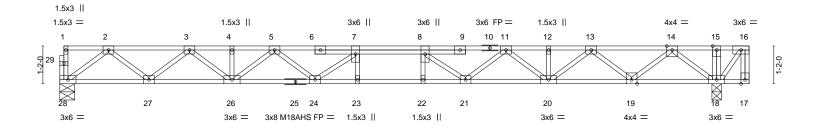
except end verticals.

6-0-0 oc bracing: 18-19.



1-10-12

0-7-8 Scale = 1:35.6



	+ <del>21-3-4</del> 1-0-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.25 BC 0.76 WB 0.43 Matrix-S	DEFL.         in (loc)         l/defl         L/           Vert(LL)         -0.27 22-23         >887         48           Vert(CT)         -0.37 22-23         >656         36           Horz(CT)         0.07         18         n/a         n/	0 MT20 244/190 0 M18AHS 186/179

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

28=0-5-8, 18=0-3-8 Max Grav 28=728(LC 3), 18=1327(LC 1)

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

2-3=-1574/0, 3-4=-2693/0, 4-5=-2693/0, 5-7=-3345/0, 7-8=-3629/0, 8-11=-3317/0, 11-12=-2629/0, 12-13=-2629/0, 13-14=-1473/0, 14-15=0/439, 15-16=0/438

27-28=0/919, 26-27=0/2207, 24-26=0/3063, 23-24=0/3629, 22-23=0/3629, 21-22=0/3629, BOT CHORD

20-21=0/3014, 19-20=0/2124, 18-19=-175/804

2-28=-1151/0, 2-27=0/853, 3-27=-823/0, 3-26=0/621, 5-26=-473/0, 5-24=0/452,

7-24=-502/7, 14-18=-1169/0, 14-19=0/897, 13-19=-875/0, 13-20=0/672, 11-20=-516/0,

11-21=0/509, 8-21=-575/0, 16-18=-674/0

### 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) 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: 17-28=-7, 1-16=-67 Concentrated Loads (lb) Vert: 16=-500



May 20,2025

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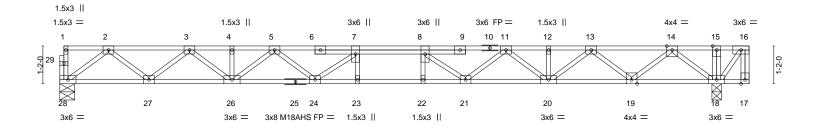
Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					I73598615
J0525-2660	F13	Floor	11	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:12 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



1-10-12

0-7-8 Scale = 1:35.6



	+ <del>21-3-4</del> 1-0-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-4-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.25 BC 0.76 WB 0.43 Matrix-S	DEFL.         in (loc)         l/defl         L/           Vert(LL)         -0.27 22-23         >887         48           Vert(CT)         -0.37 22-23         >656         36           Horz(CT)         0.07         18         n/a         n/	0 MT20 244/190 0 M18AHS 186/179

LUMBER-BRACING-

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

TOP CHORD

**BOT CHORD** 

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

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

6-0-0 oc bracing: 18-19.

REACTIONS. 28=0-5-8, 18=0-3-8

Max Grav 28=728(LC 3), 18=1327(LC 1)

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

TOP CHORD 2-3=-1574/0, 3-4=-2693/0, 4-5=-2693/0, 5-7=-3345/0, 7-8=-3629/0, 8-11=-3317/0, 11-12=-2629/0, 12-13=-2629/0, 13-14=-1473/0, 14-15=0/439, 15-16=0/438

27-28=0/919, 26-27=0/2207, 24-26=0/3063, 23-24=0/3629, 22-23=0/3629, 21-22=0/3629,

20-21=0/3014, 19-20=0/2124, 18-19=-175/804

2-28=-1151/0, 2-27=0/853, 3-27=-823/0, 3-26=0/621, 14-18=-1169/0, 14-19=0/897,

13-19=-875/0, 13-20=0/672, 11-20=-516/0, 11-21=0/509, 8-21=-575/0, 5-26=-473/0,

5-24=0/452, 7-24=-502/7, 16-18=-674/0

### NOTES-

**WEBS** 

BOT CHORD

- 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) 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: 17-28=-7, 1-16=-67 Concentrated Loads (lb) Vert: 16=-500



May 20,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					173598616
J0525-2660	F14	Floor	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:13 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

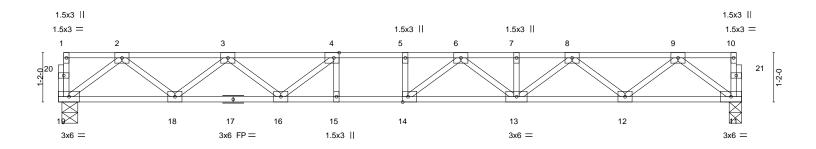
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-6-0

0-1-8 Scale = 1:27.2



0-1	-0			16-0-8		1
Plate Off	sets (X,Y)	[4:0-1-8,Edge], [14:0-1-8,Edge]				
LOADIN	G (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL	40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.16 13-14 >999 480	MT20 244/190	
TCDL	10.0	Lumber DOL 1.00	BC 0.62	Vert(CT) -0.23 13-14 >844 360		
BCLL	0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.04 11 n/a n/a		
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 82 lb FT = 20%	%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

16-1-8

LUMBER-

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

0-1-0

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 19=0-4-8, 11=0-3-8 Max Grav 19=693(LC 1), 11=693(LC 1)

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

TOP CHORD 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0,

8-9=-1438/0

18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986, 11-12=0/866

WFBS 2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0,

9-12=0/745, 8-12=-713/0, 8-13=0/452, 6-13=-293/0, 6-14=-156/328

### NOTES-

BOT 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) 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 42 Duncan's Creek
		_			173598617
J0525-2660	F15	Floor	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:13 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

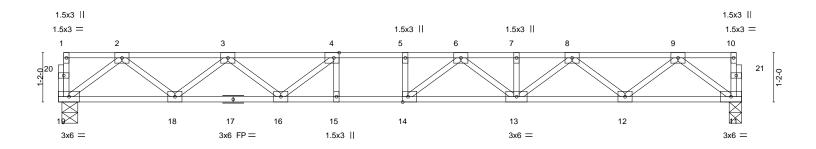
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-6-0

0-1-8 Scale = 1:27.2



0- <u>1-0</u> 0-1-0						16-1-8 16-0-8					
Plate Offse		[4:0-1-8,Edge], [14:0-1-8,	Edge]								
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.16 13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.23 13-14	>844	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04 11	n/a	n/a		
BCDL	5.0	Code IRC2021/TP	12014	Matrix	x-S					Weight: 82 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 19=0-4-8, 11=0-3-8 Max Grav 19=693(LC 1), 11=693(LC 1)

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

TOP CHORD 2-3=-1443/0, 3-4=-2295/0, 4-5=-2621/0, 5-6=-2621/0, 6-7=-2340/0, 7-8=-2340/0,

8-9=-1438/0

BOT CHORD 18-19=0/864, 16-18=0/1991, 15-16=0/2621, 14-15=0/2621, 13-14=0/2569, 12-13=0/1986,

11-12=0/866

WFBS 2-19=-1082/0, 2-18=0/753, 3-18=-714/0, 3-16=0/431, 4-16=-524/0, 9-11=-1084/0,

9-12=0/745, 8-12=-713/0, 8-13=0/452, 6-13=-293/0, 6-14=-156/328

### 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.



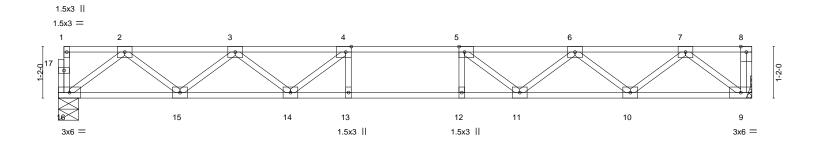


Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
					I73598618
J0525-2660	F16	Floor	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:13 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:26.1



						15-8-4					1
Plate Offsets	(X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	dge]								
LOADING (p	osf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40	0.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.16 11-12	>999	480	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.21 11-12	>904	360		
BCLL (	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5	5.0	Code IRC2021/TP	12014	Matrix	-S	` ′				Weight: 77 lb	FT = 20%F, 11%E

15-8-4

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) 16=0-5-8, 9=Mechanical Max Grav 16=674(LC 1), 9=679(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1394/0, 3-4=-2201/0, 4-5=-2478/0, 5-6=-2201/0, 6-7=-1394/0

BOT CHORD 15-16=0/838, 14-15=0/1923, 13-14=0/2478, 12-13=0/2478, 11-12=0/2478, 10-11=0/1923,

9-10=0/839

 $2-16 = -1049/0, \ 2-15 = 0/724, \ 3-15 = -688/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 4-14 = -515/0, \ 7-9 = -1052/0, \ 3-14 = 0/412, \ 3-1$ 

7-10=0/724, 6-10=-687/0, 6-11=0/412, 5-11=-515/0

### 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) 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.



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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598619 J0525-2660 F18 **FLOOR** 5 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:14 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-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.

1-3-0 2-1-4

Scale = 1:18.9

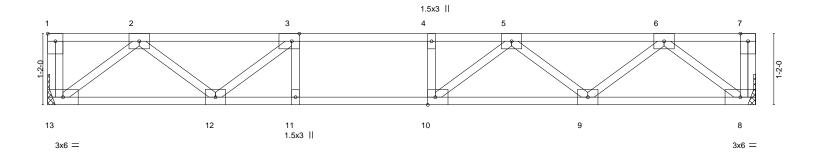


Plate Offsets (X,Y)--[1:Edge,0-1-8], [3:0-1-8,Edge], [10:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 0.35 TCLL 40.0 Plate Grip DOL 1.00 TC Vert(LL) -0.09 9-10 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.47 Vert(CT) -0.11 9-10 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.22 Horz(CT) 0.02 8 n/a n/a **BCDL** Code IRC2021/TPI2014 FT = 20%F, 11%E 5.0 Matrix-S Weight: 59 lb

**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) 13=Mechanical, 8=Mechanical Max Grav 13=499(LC 1), 8=499(LC 1)

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

TOP CHORD 2-3=-944/0, 3-4=-1317/0, 4-5=-1317/0, 5-6=-947/0 **BOT CHORD** 12-13=0/596, 11-12=0/1317, 10-11=0/1317, 9-10=0/1243, 8-9=0/608 2-13=-747/0, 2-12=0/454, 3-12=-493/0, 6-8=-763/0, 6-9=0/441, 5-9=-386/0, WEBS

5-10=-37/279

### 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.





Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek	
J0525-2660	E10	Floor	Ω	1		173598620
30323-2000	1719	1 1001	0	'	Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:14 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

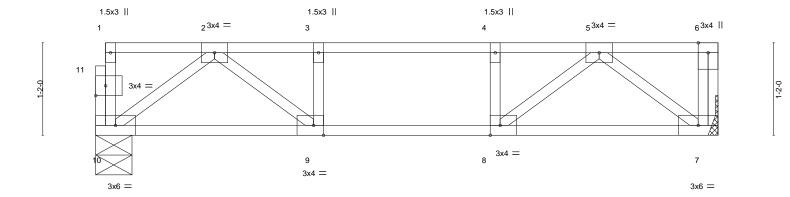
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:14.5



7-10-4 7-10-4

Plate Oil	sets (X, Y)	[8:0-1-8,Eage], [9:0-1-8,E	agej, [11:0-1-	0,0-1-8]								
LOADIN	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	0.19	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TP	12014	Matri	x-S						Weight: 40 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 10=0-5-8, 7=Mechanical Max Grav 10=329(LC 1), 7=334(LC 1)

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

TOP CHORD 2-3=-584/0, 3-4=-584/0, 4-5=-584/0

**BOT CHORD** 9-10=0/365, 8-9=0/584, 7-8=0/366

2-10=-454/0, 2-9=0/315, 5-7=-459/0, 5-8=0/315 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 42 Duncan's Creek 173598621 F20 Floor J0525-2660 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:14 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

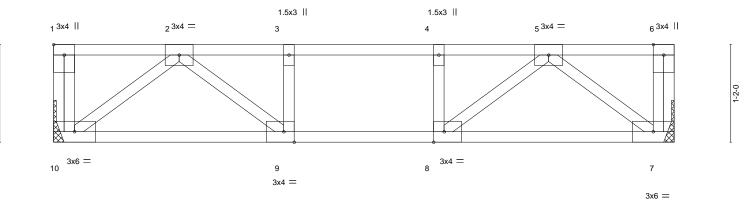
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0 1-8-0

Scale = 1:13.8



<u> </u>			7-5-0 7-5-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,	Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.14 BC 0.14 WB 0.13 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.02         7-8         >999         480           Vert(CT)         -0.02         9-10         >999         360           Horz(CT)         0.00         7         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 39 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 10=Mechanical, 7=Mechanical Max Grav 10=315(LC 1), 7=315(LC 1)

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

2-3=-526/0, 3-4=-526/0, 4-5=-526/0 9-10=0/342, 8-9=0/526, 7-8=0/342 TOP CHORD

**BOT CHORD** 

5-7=-430/0, 2-10=-430/0, 5-8=0/267, 2-9=0/267 **WEBS** 

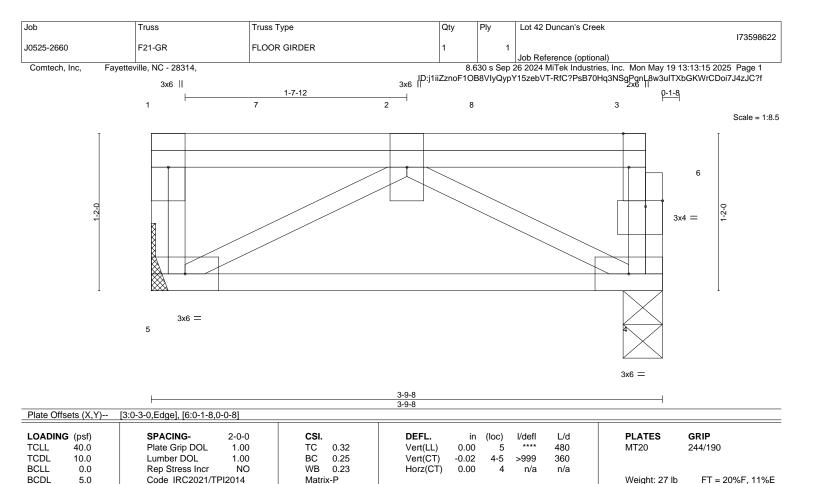
### NOTES-

- 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.





818 Soundside Road Edenton, NC 27932



LUMBER-

WEBS

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

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins,

except end verticals.

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

REACTIONS. (size) 5=Mechanical, 4=0-3-8 Max Grav 5=762(LC 1), 4=657(LC 1)

2x4 SP No.3(flat)

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

TOP CHORD 1-5=-282/0

**BOT CHORD** 4-5=0/835

2-5=-955/0, 2-4=-941/0 WEBS

### NOTES-

- 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.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 517 lb down at 0-11-2, and 517 lb down at 2-6-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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

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

Vert: 7=-517(B) 8=-517(B)





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/TPI1 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)



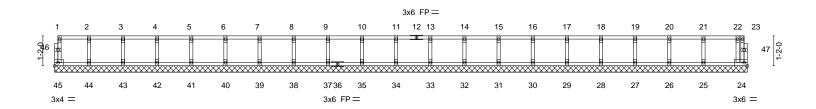
Job	Truss	Truss Type	Qty	Ply	Lot 42 Duncan's Creek
10505 0000	FIGNA		_		173598623
J0525-2660	FKW1	Floor Supported Gable	1	1	Inh Defenses (antique)
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:15 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

Scale = 1:45.0



27-0-8 27-0-8										
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00	CSI. TC 0.06	DEFL. Vert(LL)	in (loc) I/de	/a 999		RIP 14/190			
TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	BC 0.01 WB 0.03 Matrix-R	Vert(CT) Horz(CT)	n/a - n/ 0.00 24 n/		Weight: 112 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 27-0-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 45, 24, 44, 43, 42, 41, 40, 39, 38, 37, 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 42 Duncan's Creek
					173598624
J0525-2660	FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:16 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?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 = 1:24.5

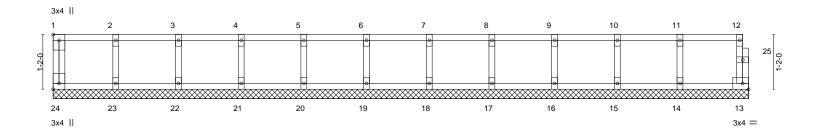


Plate Offsets (X,Y)	[1:Edge,0-1-8], [24:Edge,0-1-8]		14-9-8	1
Plate Offsets (A, f)	[1.Edge,0-1-6], [24.Edge,0-1-6]	T		
LOADING (psf)	<b>SPACING-</b> 1-7-3	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999 MT20 244/1	90
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 13 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R	Weight: 63 lb FT	Γ = 20%F, 11%E
LUMBER-			BRACING-	

TOP CHORD

**BOT CHORD** 

14-9-8

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

2x4 SP No.1(flat)

2x4 SP No.1(flat)

REACTIONS. All bearings 14-9-8. (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.

### NOTES-

TOP CHORD

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 42 Duncan's Creek
10505 0000	FIGNO	Flace Common de de Calaba			173598625
J0525-2660	FKW3	Floor Supported Gable	1	1	Joh Deference (antional)
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:16 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

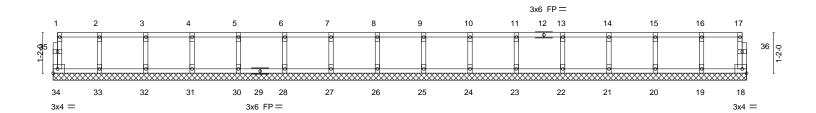
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-<u>11</u>-8

0-11-8 Scale = 1:33.2



			19-11-8 19-11-8		<del></del>
LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	<b>DEFL.</b> 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 18	n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R			Weight: 83 lb FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

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)

REACTIONS. All bearings 19-11-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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 42 Duncan's Creek
					173598626
J0525-2660	FKW4	Floor Supported Gable	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:13:16 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-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 = 1:19.1

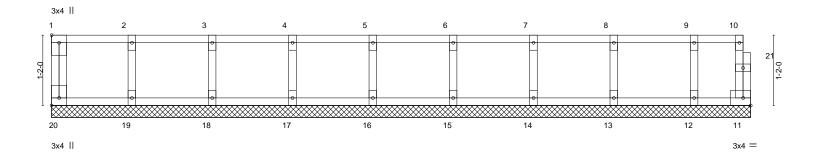


Plate Off	sets (X,Y)	[1:Edge,0-1-8], [20:Edge	,0-1-8]			11-7-4						
LOADIN TCLL	<b>G</b> (psf) 40.0	SPACING- Plate Grip DOL	1-7-3 1.00	CSI.	0.05	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL BCLL	10.0	Lumber DOL Rep Stress Incr	1.00 YES	BC WB	0.01 0.03	Vert(CT) Horz(CT)	n/a 0.00	- 11	n/a n/a	999	WITZO	244/100
BCDL	5.0	Code IRC2021/T		Matri		H0IZ(C1)	0.00	11	II/a	n/a	Weight: 50 lb	FT = 20%F, 11%E

11-7-4

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

REACTIONS. All bearings 11-7-4.

BRACING-

TOP CHORD

**BOT CHORD** 

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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.





## Symbols

## PLATE LOCATION AND ORIENTATION



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



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

₹

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

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

### PLATE SIZE

4 × 4

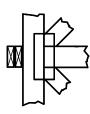
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



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

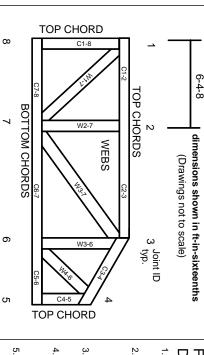
### Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

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

DSB-22:

## 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

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

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

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## MiTek



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

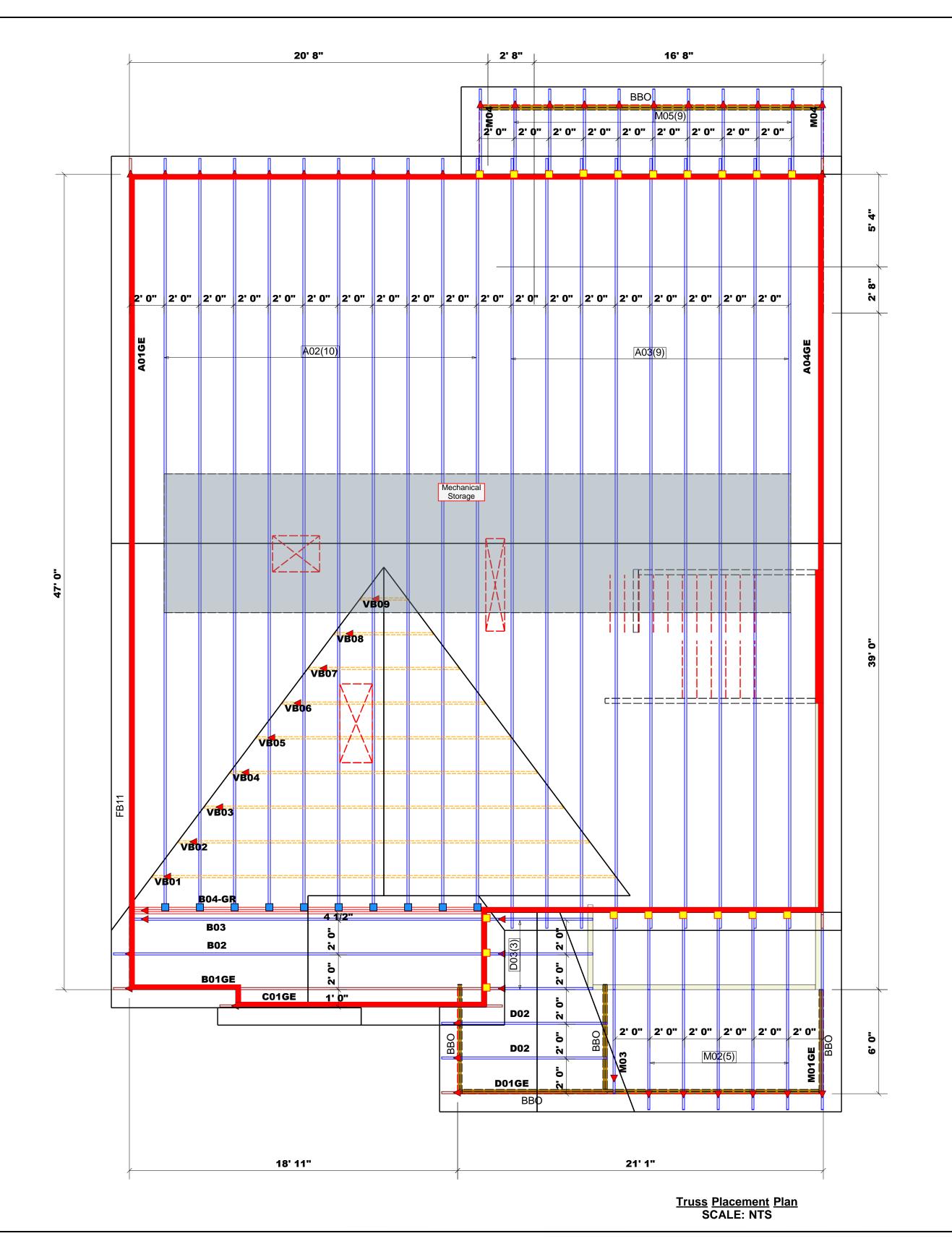
# ▲ General Safety Notes

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 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.

œ

- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.



Dimension Notes

1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

Roof Area = 2658.25 sq.ft.
Ridge Line = 79.98 ft.
Hip Line = 0 ft.
Horiz. OH = 195.56 ft.
Raked OH = 217.66 ft.
Decking = 91 sheets

All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do Not Erect Trusses Backwards



	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	10	NA	16d/3-1/2"	16d/3-1/2"
	JUS24	USP	19	NA	10d/3"	10d/3"



Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Johnnie Baggett

Johnnie Baggett

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))

NUI	NREK C	HEADER/		A END OF	-
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR
1700	1	2550	1	3400	:
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
3500	5	12750	5	17000	5
0200	6	15300	6		
1900	7				
3600	8				
5300	9				

	CITY / CO.	CITY / CO.   Lillington / Harnett
	ADDRESS	757 Beacon Hill Road
ace	MODEL	Roof
	DATE REV.	5/19/25
	DRAWN BY	Johnnie Baggett
	SALES REP.	Johnnie Baggett

BUILDERNew Home IncJOB NAMELot 42 Duncan's CreekPLANThe Garner - Craftsman - FaceSEAL DATESeal DateQUOTE #B0325-1176JOB #J0525-2659

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2659

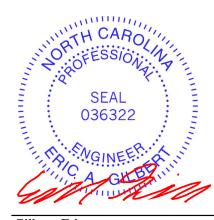
Lot 42 Duncan's Creek

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: I73598510 thru I73598535

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 20,2025

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.

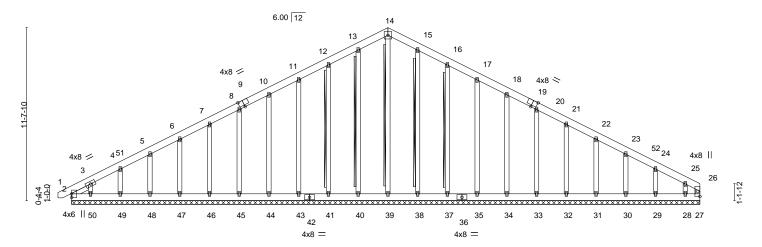
Job Truss Truss Type Qty Lot 42 Duncan's Creek Ply 173598510 J0525-2659 A01GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:13 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 0-11-0 21-3-4 20-11-12

> Scale = 1:77.5 6x6 =



42-3-0 42-3-0

Plate Oil	sels (X,Y)	[9:0-3-14,Edge], [19:0-3-1	ro,⊑agej									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code IRC2021/TP	PI2014	Matri	x-S						Weight: 386 lb	FT = 25%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 2x4 SP No.2 **OTHERS** 

SLIDER Left 2x4 SP No.2 1-3-4 BRACING-TOP CHORD

**BOT CHORD WEBS** 

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-38

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. All bearings 42-3-0.

> Max Horz 2=240(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 2, 40, 41, 43, 44, 45, 46, 47,

48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except 50=-164(LC 12),

28=-215(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 27, 2, 39, 40, 41, 43, 44, 45, 46,

47, 48, 49, 50, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-363/124, 3-4=-254/119, 10-11=-97/267, 11-12=-118/325, 12-13=-140/389, 13-14=-151/423, 14-15=-151/423, 15-16=-140/389, 16-17=-118/325, 17-18=-97/267

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 21-3-4, Corner(3R) 21-3-4 to 25-8-1 Exterior(2N) 25-8-1 to 42-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 2, 40, 41, 43, 44, 45, 46, 47, 48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 50=164, 28=215.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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)





Fayetteville, NC - 28314,

10-6-4

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-6-4 10-5-8

Structural wood sheathing directly applied or 3-1-9 oc purlins.

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

Scale = 1:80.3

6.00 12 5 2x4 // 4x8 / 4x8 2x4 \\ 3 4x4 > 8 25 1910 18 16 17 13 12 11 20 21 15 14 5x8 = 4x6 || 4x6 || 4x6 || 8x8 = 6x86x8 = 8x8 =

4x6 ||

6x6 =

	14-3-2	i i	28-3-6	1		42-3-0	
	14-3-2		14-0-5	· ·	1	3-11-10	
Plate Offsets (X,Y)	[2:0-0-0,0-2-5], [9:0-0-0,0-2-10], [10:0-4	-0,0-5-8], [15:0-4-0,0-5-8]					
LOADING (psf) TCLL 20.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.75	DEFL. in Vert(LL) -0.23	(loc) I/def			<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.73 WB 0.47	Vert(CT) -0.23 Vert(CT) -0.41 Horz(CT) 0.07		240	WITZU	244/190
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.08	2-15 >999	240	Weight: 322 lb	FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

4x6 II

LUMBER-

2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x8 SP No.1 \*Except\*

12-13: 2x4 SP No.1

**WEBS** 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.2 5-9-7

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=-146(LC 8)

Max Uplift 2=-113(LC 12), 9=-100(LC 13) Max Grav 2=2105(LC 2), 9=2060(LC 2)

10-9-0

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

TOP CHORD 2-3=-3453/603, 3-5=-3193/633, 5-7=-3127/629, 7-9=-3395/605

**BOT CHORD** 2-15=-406/3014, 10-15=-132/2029, 9-10=-382/2891

WFBS 3-15=-566/355, 5-15=-157/1392, 5-10=-142/1302, 7-10=-544/352

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior(1) 25-8-1 to 42-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=113.



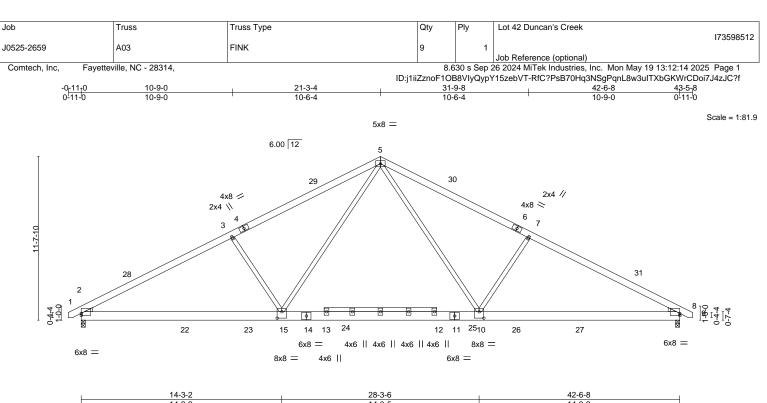
May 20,2025

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/TPI1 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)





	14-3-2	14-0-5	1.	4-3-2
Plate Offsets (X,Y)	[2:0-0-0,0-1-13], [8:0-0-0,0-1-13], [10:0-4-0	,0-5-8], [15:0-4-0,0-5-8]		
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI.         DEFL.           TC 0.36         Vert(LL)           BC 0.59         Vert(CT)	in (loc) I/defl L/d -0.25 10-15 >999 360 -0.38 10-15 >999 240	PLATES         GRIP           MT20         244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.46 Horz(CT) Matrix-AS Wind(LL)	0.07 8 n/a n/a 0.08 10-15 >999 240	Weight: 318 lb FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x8 SP No.1 \*Except\*

12-13: 2x4 SP No.1

2x4 SP No.2 WEBS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=143(LC 11)

Max Uplift 2=-112(LC 12), 8=-112(LC 13) Max Grav 2=2117(LC 2), 8=2117(LC 2)

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

TOP CHORD 2-3=-3480/610, 3-5=-3201/634, 5-7=-3201/634, 7-8=-3480/610

**BOT CHORD** 2-15=-399/3061, 10-15=-136/2064, 8-10=-396/3006

WEBS 3-15=-602/350, 5-15=-143/1360, 5-10=-143/1360, 7-10=-602/350

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 21-3-4, Exterior(2R) 21-3-4 to 25-8-1, Interior(1) 25-8-1 to 43-3-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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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 Lot 42 Duncan's Creek 173598513 J0525-2659 A04GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:15 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

42-6-8 -0-11-0 0-11-0 21-3-4 21-3-4

Scale = 1:78.4

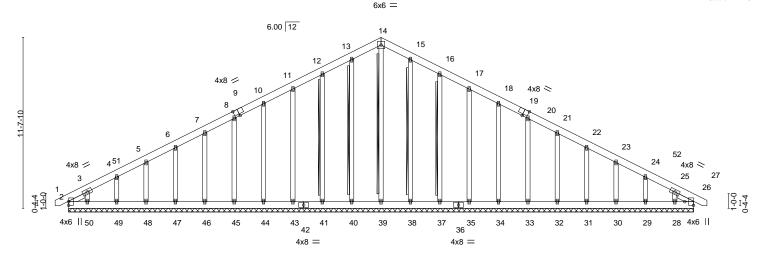


Plate Offsets (X,Y)--[9:0-3-14,Edge], [19:0-3-14,Edge], [26:Edge,0-7-2] SPACING-DEFL. in (loc) I/defl L/d **PLATES** GRIP

LOADING (psf) TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 26 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 26 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 26 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Weight: 391 lb FT = 25%Matrix-S

LUMBER-

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

Left 2x4 SP No.2 1-3-4, Right 2x4 SP No.2 1-3-4 SLIDER

BRACING-

TOP CHORD **BOT CHORD WEBS** 

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-38

, 16-37

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 42-6-8.

Max Horz 2=223(LC 16) (lb)

Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 41, 43, 44, 45, 46, 47, 48,

49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except 50=-167(LC 12), 28=-137(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47,

48, 49, 50, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 26

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

2-3=-372/106, 3-4=-262/92, 11-12=-111/289, 12-13=-134/353, 13-14=-145/389,

14-15=-145/389, 15-16=-134/353, 16-17=-111/289, 25-26=-272/83

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 21-3-4, Corner(3R) 21-3-4 to 25-8-1 . Exterior(2N) 25-8-1 to 43-3-10 zone:C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 41, 43, 44, 45, 46, 47, 48, 49, 38, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 50=167, 28=137.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.





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

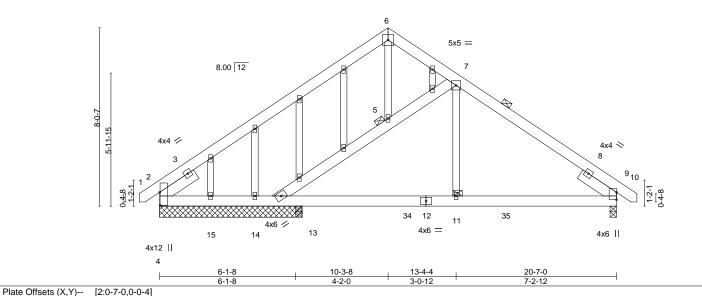
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 Lot 42 Duncan's Creek 173598514 J0525-2659 B01GE COMMON STRUCTURAL GA Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:16 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-6-0 0-11-0 5-3-8 5-3-8 15-3-8 20-7-0 5-0-0 5-0-0 5-3-8

> Scale = 1:51.9 6x6 =



LOADIN	\( \( \)		2-0-0	CSI.	0.50	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.02		>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.02	4-32	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2	2014	Matri	x-AS	Wind(LL)	0.01	15-26	>999	240	Weight: 176 lb	FT = 25%

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD TOP CHORD Structural wood sheathing directly applied. Except: BOT CHORD 6-9

2x6 SP No.1 1 Row at midpt WEBS 2x4 SP No.2 6-0-0 oc bracing: 4-5

**OTHERS** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied. Except: SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0 1 Row at midpt

**JOINTS** 1 Brace at Jt(s): 5 REACTIONS.

All bearings 6-5-0 except (jt=length) 9=0-3-8, 13=0-3-8. Max Horz 2=575(LC 12)

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 9=-230(LC 12), 15=-494(LC 12), 13=-159(LC 12) Max Grav All reactions 250 lb or less at joint(s) 14 except 2=613(LC 1), 9=546(LC 19), 15=699(LC 19), 4=316(LC 19), 13=704(LC 19), 2=613(LC 1)

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

TOP CHORD 2-6=-965/893, 6-7=-641/422, 7-9=-718/346, 4-5=-257/300

**BOT CHORD** 2-15=-596/698, 14-15=-596/698, 4-14=-596/698, 4-13=-266/586, 11-13=-266/586,

9-11=-266/586 WEBS 7-11=-43/284

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 10-3-8, Exterior(2E) 20-7-0 to 21-4-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2 except (jt=lb) 9=230, 15=494, 13=159.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





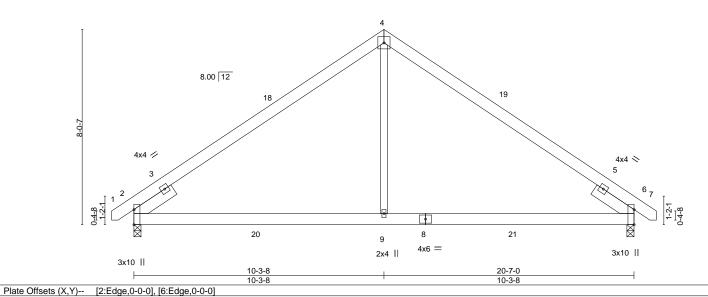
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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 42 Duncan's Creek 173598515 J0525-2659 B02 COMMON Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:16 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-6-0 0-11-0 5-3-8 5-3-8 15-3-8 5-0-0 5-0-0 5-3-8 6x6 = Scale = 1:47.4



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.10	9-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	9-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TF	PI2014	Matrix-AS		Wind(LL)	0.06	9-16	>999	240	Weight: 131 lb	FT = 25%

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

**SLIDER** Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=-177(LC 10)

Max Uplift 6=-52(LC 13), 2=-52(LC 12)

Max Grav 6=1119(LC 20), 2=1119(LC 19)

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

TOP CHORD 2-4=-1223/237, 4-6=-1223/237 **BOT CHORD** 2-9=-11/958, 6-9=-11/958

**WEBS** 4-9=0/771

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 10-3-8, Exterior(2R) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 21-4-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598516 J0525-2659 B<sub>0</sub>3 Common Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:17 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-7-0 5-0-0 5-0-0 5-3-8 Scale = 1:47.3 6x6 = 8.00 12 17 4x4 / 4x4 > 5 1-2-1 × 18 19 7 4x6 = 2x4 II 3x10 II 3x10 || 10-3-8 20-7-0 Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-7-8,Edge]

LOADING	G (psf)	SPACING- 2	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.10	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.15	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	1	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matri	x-AS	Wind(LL)	0.06	7-10	>999	240	Weight: 127 lb	FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

**SLIDER** Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=164(LC 9)

Max Uplift 1=-41(LC 12), 5=-41(LC 13) Max Grav 1=1075(LC 19), 5=1075(LC 20)

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

TOP CHORD 1-3=-1226/237, 3-5=-1226/237 **BOT CHORD** 1-7=-42/955, 5-7=-42/955

**WEBS** 3-7=0/771

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-3-8, Exterior(2R) 10-3-8 to 14-8-5, Interior(1) 14-8-5 to 20-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598517 J0525-2659 B04-GR Common Girder Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:18 2025 Page 1

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-7-0 5-0-0 5-0-0 5-3-8

> 6x6 || Scale = 1:47.3

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

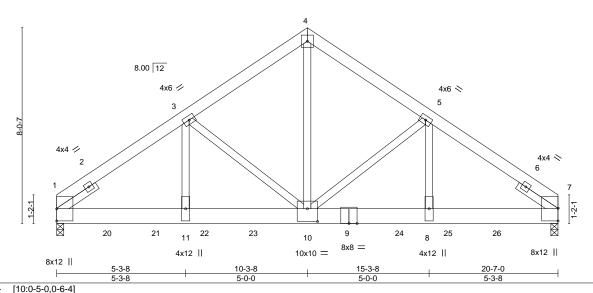


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.48 Vert(LL) -0.11 8-10 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.41 Vert(CT) -0.18 8-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.83 Horz(CT) 0.05 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Matrix-MS Wind(LL) 240 Weight: 501 lb FT = 25%0.05 8-10 >999

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.2

Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0 SLIDER

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-164(LC 27)

Max Uplift 1=-558(LC 8), 7=-641(LC 9)

Max Grav 1=10140(LC 2), 7=11711(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-12907/735, 3-4=-9739/613, 4-5=-9741/613, 5-7=-13056/743 1-11=-611/10472, 10-11=-611/10472, 8-10=-544/10603, 7-8=-544/10603 BOT CHORD

**WEBS** 4-10=-570/10147, 5-10=-3195/291, 5-8=-191/4141, 3-10=-3025/281, 3-11=-179/3963

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=558, 7=641,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2040 lb down and 120 lb up at 2-0-12, 2040 lb down and 120 lb up at 4-0-12, 2040 lb down and 120 lb up at 6-0-12, 2040 lb down and 120 lb up at 8-0-12, 2040 lb down and 120 lb up at 10-0-12, 2040 lb down and 120 lb up at 12-0-12, 2040 lb down and 120 lb up at 14-0-12, 2040 lb down and 120 lb up at 16-0-12, and 2040 lb down and 120 lb up at 18-0-12, and 2045 lb down and 115 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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



Continued on page 2

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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598517 J0525-2659 B04-GR Common Girder

Fayetteville, NC - 28314, Comtech, Inc,

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:18 2025 Page 2 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

### LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 12-16=-20

Concentrated Loads (lb)

Vert: 9=-1664(B) 10=-1664(B) 18=-1668(B) 20=-1664(B) 21=-1664(B) 22=-1664(B) 23=-1664(B) 24=-1664(B) 25=-1664(B) 2





Job Truss Truss Type Qty Lot 42 Duncan's Creek 173598518 J0525-2659 C01GE COMMON SUPPORTED GAB Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:18 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f <del>-0-11-0</del> 0-11-0 15-4-8 7-2-12 7-2-12 Scale = 1:35.3 5x5 = 6 8.00 12 18 4x4 / 4x4 × 11 10 3x6 || 3x6 | 16 15 14 13 12

14-5-8

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

L/d

120

120

n/a

(loc)

10

10

10

0.00

0.00

0.00

I/defl

n/r

n/r

n/a

**PLATES** 

Weight: 115 lb

MT20

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

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

**GRIP** 

244/190

FT = 25%

Rep Stress Incr Code IRC2021/TPI2014 **BCDL** 10.0 Matrix-S LUMBER-

Plate Grip DOL

Lumber DOL

SPACING-

2-0-0

1.15

1.15

YES

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

20.0

10.0

0.0

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

**SLIDER** Left 2x6 SP No.1 1-11-5, Right 2x6 SP No.1 1-11-5

REACTIONS. All bearings 14-5-8. (lb) -Max Horz 2=-163(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-173(LC 12), 12=-166(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=281(LC 19), 12=273(LC 20)

CSI.

TC

ВС

WB

0.05

0.03

0.07

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 4-16=-207/267. 8-12=-201/266 WEBS

### NOTES-

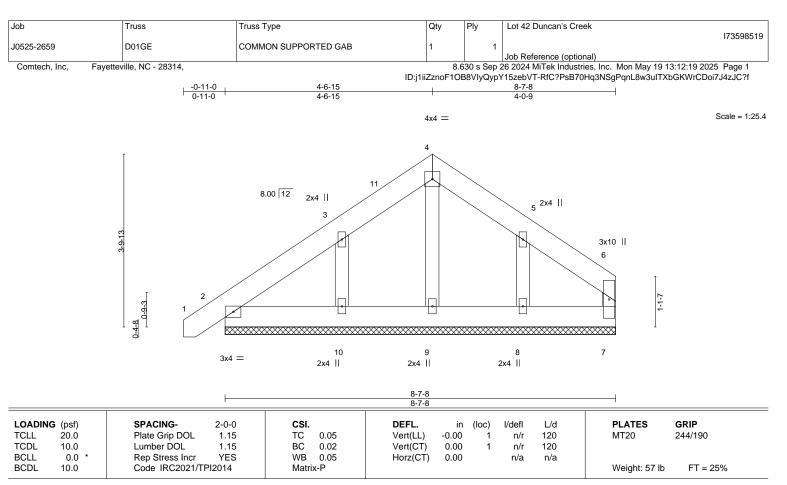
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 7-2-12, Corner(3R) 7-2-12 to 11-7-9, Exterior(2N) 11-7-9 to 15-2-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=173, 12=166.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.



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LUMBER-

TOP CHORD 2x6 SP No.1

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

**OTHERS** 2x4 SP No.2 BRACING-

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 8-7-8.

Max Horz 2=102(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8 except 10=-128(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 10, 8

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

WEBS

3-10=-203/292, 5-8=-163/255

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 4-6-15, Corner(3E) 4-6-15 to 8-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8 except (jt=lb) 10=128.



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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598520 COMMON J0525-2659 D02 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:19 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-11-0 4-6-15 4-0-9 Scale = 1:25.6 4x4 = 3 8.00 12 4x4 <> 0-4-8 6 2x4 || 3x6 II 3x4 =8-7-8 Plate Offsets (X,Y)--[5:Edge,0-4-5] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP Vert(LL) 0.01 6-13 >999 240 244/190 MT20

TCLL 20.0 Plate Grip DOL 1.15 TC 0.11 TCDL 10.0 Lumber DOL 1.15 BC 0.08 BCLL 0.0 Rep Stress Incr YES WB 0.06 Code IRC2021/TPI2014 **BCDL** 10.0 Matrix-AS

Horz(CT) **BRACING-**

Vert(CT)

-0.01

-0.00

6-13

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied.

240

n/a

Rigid ceiling directly applied.

>999

n/a

LUMBER-

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

**SLIDER** Right 2x4 SP No.2 1-11-0

REACTIONS. (size) 5=0-3-0, 2=0-3-0 Max Horz 2=81(LC 9)

Max Uplift 5=-47(LC 8), 2=-57(LC 9) Max Grav 5=343(LC 1), 2=394(LC 1)

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

2-3=-361/478, 3-5=-283/499 TOP CHORD **BOT CHORD** 2-6=-308/236, 5-6=-308/236

**WEBS** 3-6=-365/179

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 4-6-15, Exterior(2E) 4-6-15 to 8-7-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 25%

Weight: 55 lb

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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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 42 Duncan's Creek 173598521 J0525-2659 D03 Common 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

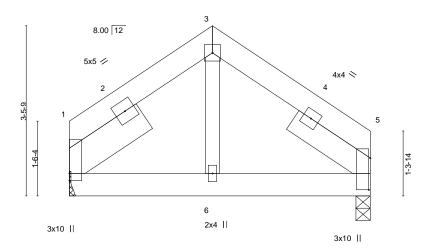
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:20 2025 Page 1 ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-15

Scale = 1:23.5 4x4 =

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



2-10-15

Plate Offsets (X,Y)	[5:0-7-12,0-0-6]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 6 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 6 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 1 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS		Weight: 47 lb FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.2 **SLIDER** Left 2x8 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

REACTIONS. (size) 1=Mechanical, 5=0-3-8

Max Horz 1=-51(LC 8)

Max Uplift 1=-29(LC 9), 5=-32(LC 8) Max Grav 1=245(LC 1), 5=245(LC 1)

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

TOP CHORD 1-3=-156/359, 3-5=-156/343

WEBS 3-6=-262/104

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 20,2025

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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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 42 Duncan's Creek 173598522 J0525-2659 M01GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:20 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-5-8 0-1-12 6<sub>7</sub>0<sub>7</sub>0 0-1-8 10-3-12 0-11-0 5-10-8 4-3-12 Scale = 1:18.8 3x4 || 2x4 3.00 12 3x4 || 3 2-6-11 2x4 || 13 0-4-0 0-4-4 6 10 3x4 = 3x4 = 2x4 II 3x4 II 2x4 II 3x4 II 10-3-12 6-0-0 4-3-12 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/def 20.0 -0.00 120 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.30 Vert(LL) n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 6 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-R Weight: 44 lb FT = 25% BRACING-LUMBER-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

**BOT CHORD** 

except end verticals.

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

2x4 SP No.1

2x4 SP No.1 \*Except\* **BOT CHORD** 

6-8: 2x6 SP No.1

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

REACTIONS. All bearings 10-3-12.

Max Horz 2=135(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 9 except 8=-190(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 9, 10, 7 except 8=346(LC 1)

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

BOT CHORD 3-8=-337/299

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 9 except
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.



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 42 Duncan's Creek 173598523 J0525-2659 M02 MONOPITCH 5 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:20 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

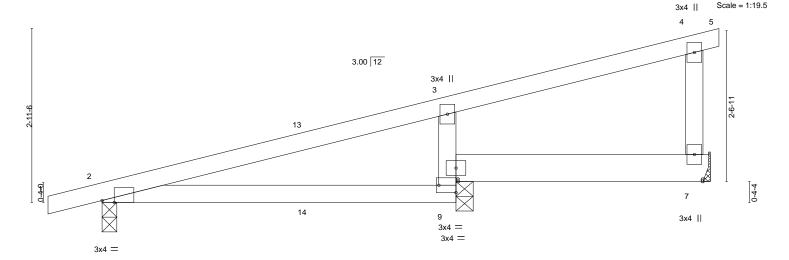
ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-3-12

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

10-3-12 0-11-0 5-10-8 4-3-12



<u>'</u>		6-0-0		0-1-12		4-2-0	<u>'</u>
Plate Offsets (X,Y)	[2:0-2-7,Edge], [9:Edge,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL)	0.08 9-12	>872 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT)	-0.05 9-12	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -	-0.00 2	n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS				Weight: 41 lb	FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

6-1-12

LUMBER-

TOP CHORD 2x4 SP No.1

**BOT CHORD** 2x4 SP No.1 \*Except\*

6-8: 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 7=Mechanical, 2=0-3-0, 8=0-3-8

Max Horz 2=105(LC 8)

Max Uplift 7=-22(LC 12), 2=-106(LC 8), 8=-125(LC 8) Max Grav 7=169(LC 1), 2=272(LC 1), 8=448(LC 1)

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

BOT CHORD 3-8=-323/302

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-5-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6-0-0

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=106, 8=125,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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 Lot 42 Duncan's Creek 173598524 J0525-2659 M03 MONOPITCH Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:21 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6<sub>7</sub>0<sub>7</sub>0 0-1-8 10-3-12 5-10-8 4-3-12 Scale = 1:19.0 3x4 ||

	3.00 12		
2-11-6	3x4    2		2-6-11
		6	0-4-4
1	3x4 = 13 $8$ $3x4 = 3x4 = 3x4 = 13$	3x4	ĪO

6-0-0 10-3-12 Plate Offsets (X,Y)-- [1:0-2-15,Edge], [8:Edge,0-1-8]

	7 9 1/1 9 7			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.08 8-11 >835 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.05 8-11 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 1 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS		Weight: 40 lb FT = 25%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SP No.1 TOP CHORD **BOT CHORD** 2x4 SP No.1 \*Except\*

5-7: 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 1=0-3-0, 6=Mechanical, 7=0-3-8

Max Horz 1=94(LC 8)

Max Uplift 1=-70(LC 8), 6=-22(LC 12), 7=-129(LC 8) Max Grav 1=212(LC 1), 6=169(LC 1), 7=453(LC 1)

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

BOT CHORD 2-7=-325/304

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-5-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 7 = 129
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



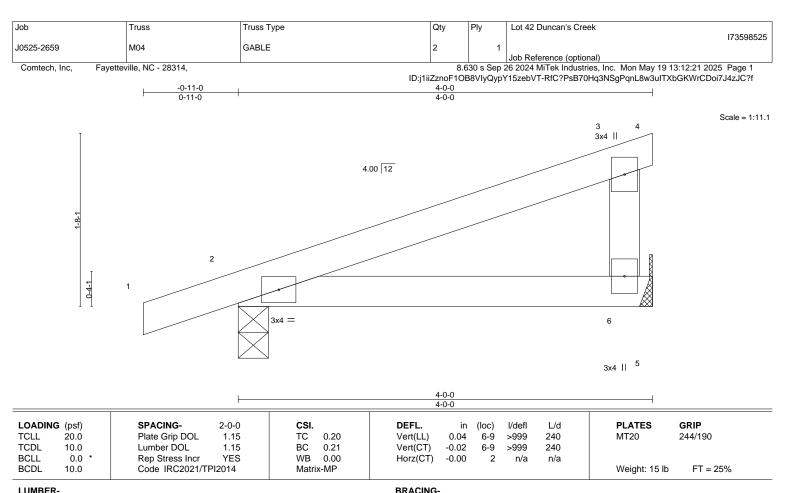
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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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**BOT CHORD** 

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.2

REACTIONS.

6=Mechanical, 2=0-3-8 (size) Max Horz 2=81(LC 8)

Max Uplift 6=-94(LC 8), 2=-125(LC 8) Max Grav 6=154(LC 1), 2=211(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2 = 125



Structural wood sheathing directly applied or 4-0-0 oc purlins,

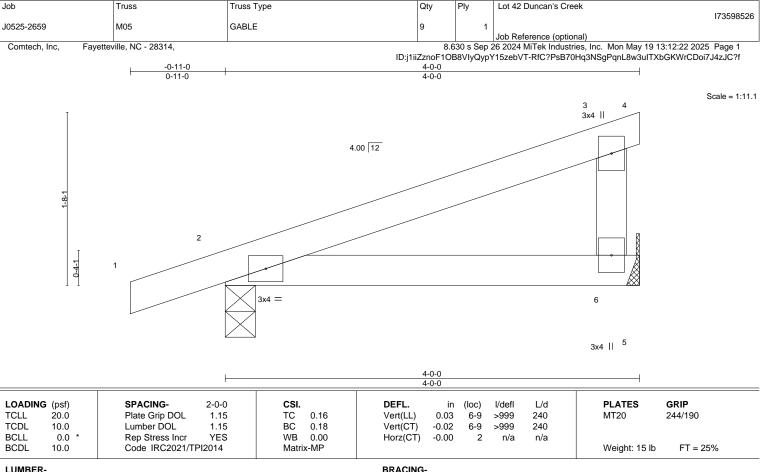
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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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**BOT CHORD** 

LUMBER-TOP CHORD

2x4 SP No.1 2x4 SP No.1

BOT CHORD WEBS 2x4 SP No.2

REACTIONS.

6=Mechanical, 2=0-3-8 (size) Max Horz 2=58(LC 8) Max Uplift 6=-62(LC 8), 2=-87(LC 8) Max Grav 6=154(LC 1), 2=211(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.



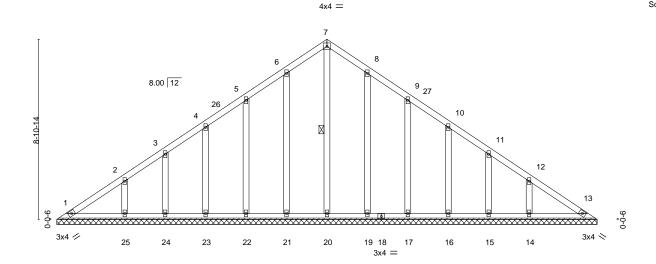
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPI1 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)





ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 26-8-10 13-4-5 13-4-5



26-8-10 Plate Offsets (X,Y)-- $[8:0-0-0,0-0-0], \ [9:0-0-0,0-0-0], \ [10:0-0-0,0-0-0], \ [11:0-0-0,0-0-0], \ [12:0-0-0,0-0-0]$ SPACING-**PLATES GRIP** LOADING (psf) DEFL. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 0.01 13 Horz(CT) n/a n/a Code IRC2021/TPI2014 FT = 25% **BCDL** 10.0 Weight: 163 lb Matrix-S

26-8-10

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.1 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 **WEBS** 1 Row at midpt 7-20

REACTIONS. All bearings 26-8-10.

(lb) -Max Horz 1=257(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 22, 23, 24, 19, 17, 16, 15 except 25=-130(LC 12),

14=-129(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 24, 19, 17, 16, 15 except 25=262(LC

19), 14=261(LC 20)

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

TOP CHORD 1-2=-251/203

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 13-4-5, Exterior(2R) 13-4-5 to 17-9-2, Interior(1) 17-9-2 to 26-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 22, 23, 24, 19, 17, 16, 15 except (jt=lb) 25=130, 14=129.



Scale = 1:57.0



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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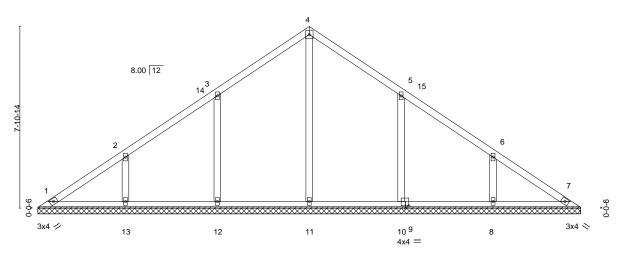
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 42 Duncan's Creek 173598528 J0525-2659 VB02 Valley Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:23 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 23-8-10 11-10-5 11-10-5

> Scale = 1:50.1 4x4 =



0-<u>0-9</u> 0-0-9 23-8-10 [9.0-1-12 0-1-4]

1 1010 011	3Ct3 (X, 1)	[5.0 1 12,0 1 4]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) n/a - n/a 999 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999
BCLL	0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00 7 n/a n/a
BCDL	10.0	Code IRC2021/TPI2014	Matrix-S	Weight: 107 lb FT = 25%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 23-7-8.

Plate Offsets (X V)--

Max Horz 1=-182(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=-102(LC 12), 10=-102(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=447(LC 22), 12=479(LC 19), 13=402(LC 19),

10=479(LC 20), 8=402(LC 20)

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

3-12=-283/204, 2-13=-261/161, 5-10=-282/204, 6-8=-261/161

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 11-10-5, Exterior(2R) 11-10-5 to 16-3-2, Interior(1) 16-3-2 to 23-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 12=102, 10=102.



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 Lot 42 Duncan's Creek 173598529 J0525-2659 VB03 Valley Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:23 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-8-10 10-4-5 10-4-5 Scale = 1:43.8 4x4 = 8.00 12 14<sup>3</sup> 15 9-0-0 

	0-0-9	20-8						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.16 BC 0.18 WB 0.13 Matrix-S	DEFL.         in           Vert(LL)         n/a           Vert(CT)         n/a           Horz(CT)         0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 89 lb	<b>GRIP</b> 244/190  FT = 25%

11

10

9

3x4 =

LUMBER-**BRACING-**

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

REACTIONS. All bearings 20-7-8.

3x4 /

13

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-105(LC 12), 10=-105(LC 13)

12

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=436(LC 19), 12=495(LC 19), 13=324(LC 19),

10=495(LC 20), 8=324(LC 20)

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

3-12=-292/209, 5-10=-291/209 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 10-4-5, Exterior(2R) 10-4-5 to 14-9-2, Interior(1) 14-9-2 to 20-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=105, 10=105.

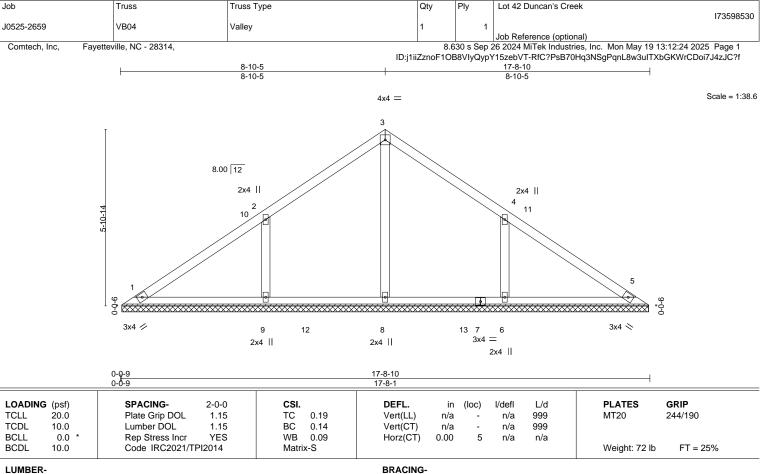


3x4 ≫

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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BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 17-7-8.

Max Horz 1=-134(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-120(LC 12), 6=-120(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=394(LC 19), 9=525(LC 19), 6=524(LC 20)

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

2-9=-327/226, 4-6=-327/226 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-5, Interior(1) 4-10-5 to 8-10-5, Exterior(2R) 8-10-5 to 13-3-2, Interior(1) 13-3-2 to 17-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=120, 6=120,



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

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



Job Truss Truss Type Qty Lot 42 Duncan's Creek 173598531 J0525-2659 VB05 Valley Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:24 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-8-10 7-4-5 Scale = 1:31.0 4x4 = 8.00 12 2x4 | 2x4 || 10 3x4 / 8 7 6 3x4 N 2x4 || 2x4 II 2x4 || 14-8-10 14-8-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.14 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 58 lb FT = 25% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 14-7-8.

Max Horz 1=110(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=257(LC 1), 8=348(LC 19), 6=348(LC 20)

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

2-8=-269/218, 4-6=-269/218 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-4-5, Exterior(2R) 7-4-5 to 11-9-2, Interior(1) 11-9-2 to 14-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



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

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

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 Lot 42 Duncan's Creek 173598532 J0525-2659 VB06 Valley Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:25 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-10-5 5-10-5 Scale = 1:25.2 4x4 = 3 8.00 12 2x4 || 2 3x4 🖊 3x4 × 2x4 || 2x4 || 2x4 || 11-8-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP I/defl 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 43 lb FT = 25% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 11-7-8.

Max Horz 1=-86(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=263(LC 1), 8=316(LC 19), 6=316(LC 20)

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

2-8=-257/240, 4-6=-257/240 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-10-5, Exterior(2R) 5-10-5 to 10-3-2, Interior(1) 10-3-2 to 11-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



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

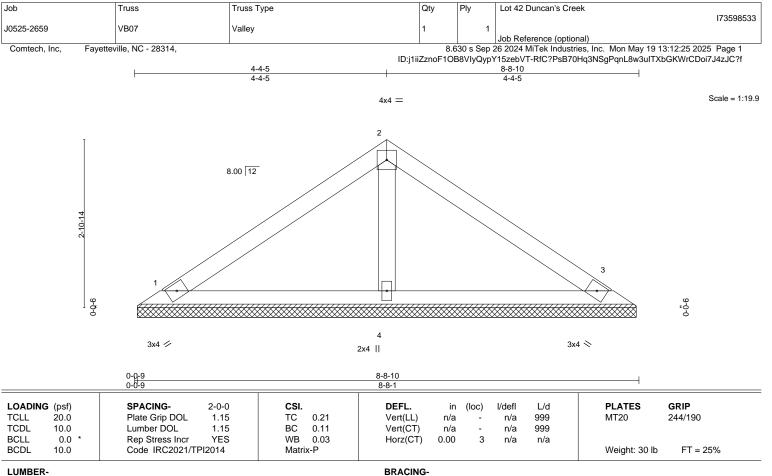
Rigid ceiling directly applied or 10-0-0 oc bracing.

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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BOT CHORD

LUMBER-

REACTIONS.

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

**OTHERS** 2x4 SP No.2

> 1=8-7-8, 3=8-7-8, 4=8-7-8 (size)

Max Horz 1=-62(LC 8)

Max Uplift 1=-27(LC 12), 3=-33(LC 13)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=282(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

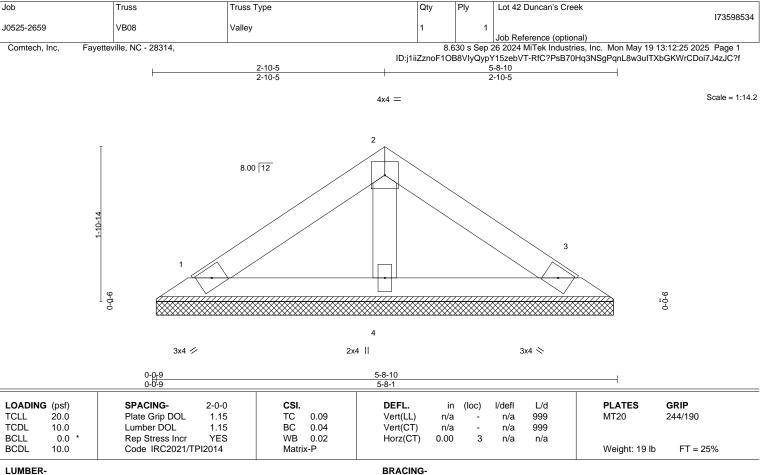
Rigid ceiling directly applied or 10-0-0 oc bracing.



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BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SP No.2

REACTIONS.

1=5-7-8, 3=5-7-8, 4=5-7-8 (size) Max Horz 1=-38(LC 8) Max Uplift 1=-16(LC 12), 3=-20(LC 13)

Max Grav 1=103(LC 1), 3=103(LC 1), 4=173(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-8-10 oc purlins.

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



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Job Truss Truss Type Qty Ply Lot 42 Duncan's Creek 173598535 J0525-2659 VB09 Valley Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon May 19 13:12:26 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:j1iiZznoF1OB8VIyQypY15zebVT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-8-10 1-4-5 1-4-5 Scale = 1:7.3 3x4 = 8.00 12 3 9-0-0 9-0-0 3x4 🖊 3x4 ≥ 2-8-10 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 244/190 TCLL 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) 999 MT20 n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 0.00 3 Horz(CT) n/a n/a Code IRC2021/TPI2014 FT = 25% **BCDL** 10.0 Matrix-P Weight: 7 lb

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 2-8-10 oc purlins.

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

REACTIONS. (size) 1=2-7-8, 3=2-7-8

Max Horz 1=-14(LC 8) Max Uplift 1=-4(LC 12), 3=-4(LC 13)

Max Grav 1=69(LC 1), 3=69(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





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)



### 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

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- 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.

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- 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.