

Dimension Notes

1. All exterior wall to wall dimensions are to face of wall 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

WALL SCHEDULE				
	1st Floor Walls			
	2nd Floor Walls			
	Non-Bearing Walls			
	Garage Walls Dropped			

	Conne	Nail Info	ormation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	JUS24	USP	16	NA	10d/3"	10d/3"
	HUS26	USP	10	NA	16d/3-1/2"	16d/3-1/2"
	THD26-2	USP	1	NA	16d/3-1/2"	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							
	(B	ASED O	N TABLES	5 R502.	5(1) & (l	o))	
NUA	MBER C		STUDS R			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 (4) PLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
10200	6		15300	6			
11900	7						
13600	8						
15300	9						

	CITY / CO.	CITY / CO.   Lillington / Harnett
	ADDRESS	697 Beacon Hill Road
90	WODEL	Roof
	DATE REV.	5/2/25
	DRAWN BY	DRAWN BY Johnnie Baggett
	SALES REP.	SALES REP. Johnnie Baggett

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.com

New Home Inc



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0525-2410

Lot 39 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: I73190279 thru I73190315

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

North Carolina COA: C-0844



May 5,2025

Gilbert, Eric

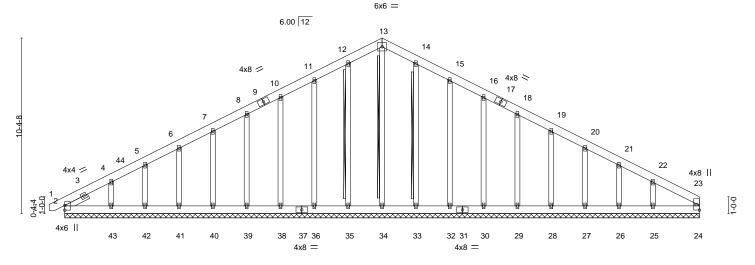
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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 39 Duncan's Creek 173190279 J0525-2410 COMMON SUPPORTED GAB A01GE Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:15:59 2025 Page 1 Comtech, Inc.

Fayetteville, NC - 28314,

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-9-0 37-6-0 18-9-0 18-9-0

Scale = 1:68.1



LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 24 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 324 lb FT = 20%

37-6-0 37-6-0

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x6 SP No.1 except end verticals. 2x4 SP No.2 BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No 2 WFBS T-Brace:

2x4 SPF No.2 - 13-34, 12-35, 14-33 SLIDER Left 2x4 SP No.2 1-6-4 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 37-6-0.

Max Horz 2=210(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26 except

43=-160(LC 12), 25=-148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 24, 2, 34, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29,

28, 27, 26, 25

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

TOP CHORD 2-4=-257/111, 10-11=-109/288, 11-12=-131/352, 12-13=-145/389, 13-14=-145/389,

14-15=-131/352, 15-16=-109/288

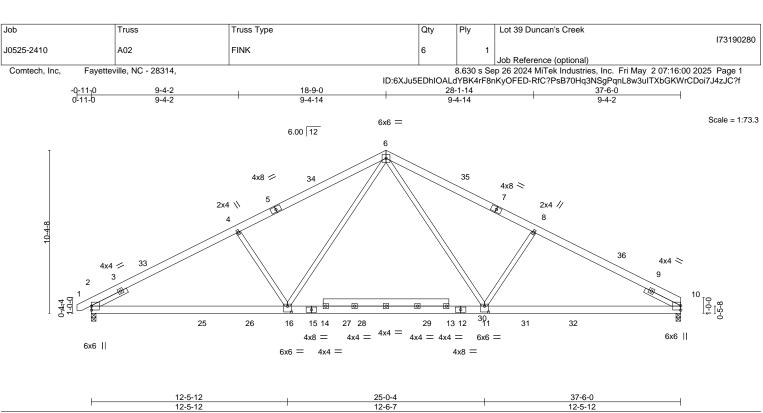
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 37-4-4 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.
- 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) 2, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26 except (jt=lb) 43=160, 25=148.
- 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)





	12-5-12	25-0-4	37-6-0
	12-5-12	12-6-7	12-5-12
Plate Offsets (X,Y)	[11:0-3-0,0-4-8], [16:0-3-0,0-4-8]		·

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 0.32	Vert(LL) -0.18 11-16 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.37 11-16 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.07 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.06 11-16 >999 240	Weight: 265 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=128(LC 9)

Max Grav 2=1927(LC 2), 10=1888(LC 2)

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

2-4=-3096/329, 4-6=-2895/350, 6-8=-2897/356, 8-10=-3097/335 TOP CHORD

**BOT CHORD** 2-16=-194/2740, 11-16=-19/1875, 10-11=-180/2695

WFBS 4-16=-485/315, 6-16=-11/1219, 6-11=-12/1221, 8-11=-487/316

## NOTES-

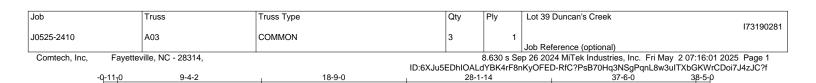
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart. 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) 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.

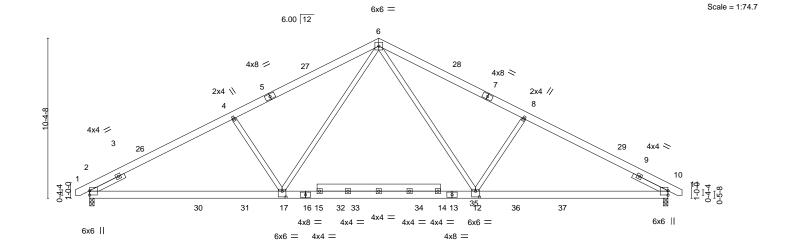
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9-4-14

9-4-14



1	12-5-12	18-9-0	25-0-4	37-6-0	1
Г	12-5-12	6-3-4	6-3-4	12-5-12	7
ts (X,Y)	[12:0-3-0,0-4-8], [17:0-3-0,0-4-8]				

LOADING	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 0.32	Vert(LL) -0.18 12-17 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.37 12-17 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.07 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.06 12-17 >999 240	Weight: 268 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

Plate Offsets

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

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=127(LC 11)

Max Grav 2=1926(LC 2), 10=1926(LC 2)

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

TOP CHORD 2-4=-3095/329. 4-6=-2895/350. 6-8=-2895/350. 8-10=-3095/329

**BOT CHORD** 2-17=-167/2744, 12-17=0/1879, 10-12=-165/2692

WFBS 4-17=-485/315, 6-17=-12/1219, 6-12=-12/1219, 8-12=-485/315

#### 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 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart. 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) 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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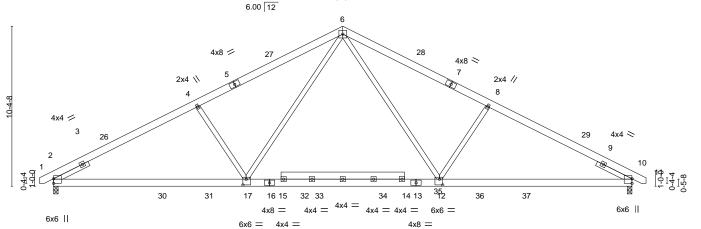




Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:02 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-4-2 18-9-0 28-1-14 37-6-0 9-4-14 9-4-14

6x6 =

Scale = 1:74.7



	12-5-12	18-9-0	25-0-4	37-6-0
	12-5-12	6-3-4	6-3-4	12-5-12
Plate Offsets (X,Y)	[12:0-2-8,0-4-8], [17:0-2-8,0-4-8]			

		[:-:- = -;- : -], [:::- = -;- : -]			
LOADIN	G (psf)	SPACING- 2-1-8	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.20 12-17 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.39 12-17 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.08 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.06 12-17 >999 240	Weight: 268 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=135(LC 11) Max Uplift 2=-6(LC 12), 10=-6(LC 13) Max Grav 2=2040(LC 2), 10=2040(LC 2)

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

TOP CHORD 2-4=-3282/366, 4-6=-3067/387, 6-8=-3067/387, 8-10=-3282/366

**BOT CHORD** 2-17=-192/2912, 12-17=0/1980, 10-12=-190/2858

**WEBS** 4-17=-530/342, 6-17=-26/1303, 6-12=-26/1303, 8-12=-530/342

## 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 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 38-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- 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) 2, 10.



Structural wood sheathing directly applied or 3-10-3 oc purlins.

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

May 5,2025

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Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:02 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-9-0 28-1-14 37-6-0 9-4-14

Scale = 1:73.3 6x6 = 6.00 12 6 4x8 / 27 4x8 > 2x4 \\ 2x4 // 4x4 < 25 4×4 / 10 29 30 15 14 32 33 13 12 35 36 4x8 = 6x6 = 6x6 || 4x4 = 4x4 =6x6 II

	12-5-12	18-9-0	25-0-4	37-6-0
	12-5-12	6-3-4	6-3-4	12-5-12
Plate Offsets (X,Y)	[11:0-2-8,0-4-8], [16:0-2-8,0-4-8]			

BRACING-

TOP CHORD

**BOT CHORD** 

4x8 =

LOADIN	G (psf)	SPACING- 2-1-8	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.20 11-16 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.39 11-16 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.08 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.06 11-16 >999 240	Weight: 265 lb FT = 20%

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=136(LC 9) Max Uplift 2=-6(LC 12)

Max Grav 2=2041(LC 2), 10=2000(LC 2)

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

TOP CHORD 2-4=-3283/366, 4-6=-3068/387, 6-8=-3069/393, 8-10=-3284/372

2-16=-221/2908, 11-16=-24/1975, 10-11=-206/2860 BOT CHORD

**WEBS** 4-16=-530/342, 6-16=-26/1303, 6-11=-26/1305, 8-11=-532/342

## 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 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6x6 =

4x4 =

- 3) 200.0lb AC unit load placed on the bottom chord, 18-9-0 from left end, supported at two points, 5-0-0 apart.
- 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) 2.



Structural wood sheathing directly applied or 3-10-3 oc purlins.

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



Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190284 J0525-2410 COMMON 9 A05 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:03 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

18-9-0

9-4-14

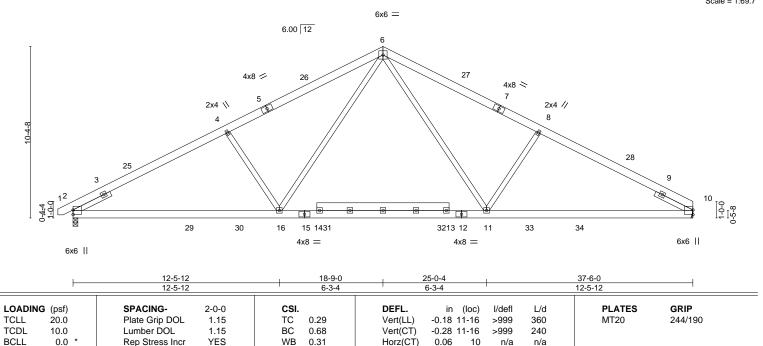
Matrix-AS

Scale = 1:69.7

37-6-0

Weight: 265 lb

FT = 20%



Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.06 11-16

>999

Rigid ceiling directly applied.

240

Structural wood sheathing directly applied.

LUMBER-

BCDL

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

10.0

SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 10=Mechanical

Max Horz 2=128(LC 9)

Max Uplift 2=-100(LC 12), 10=-89(LC 13) Max Grav 2=1827(LC 2), 10=1788(LC 2)

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

Code IRC2021/TPI2014

TOP CHORD 2-4=-2884/541 4-6=-2682/563 6-8=-2684/569 8-10=-2886/547

**BOT CHORD** 2-16=-378/2556, 11-16=-154/1740, 10-11=-364/2511

WFBS 4-16=-502/298. 6-16=-120/1110. 6-11=-120/1113. 8-11=-504/298

# 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 18-9-0, Exterior(2R) 18-9-0 to 23-1-13, Interior(1) 23-1-13 to 37-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x4 MT20 unless otherwise indicated.
- 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) 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) 2, 10.
- 8) 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.

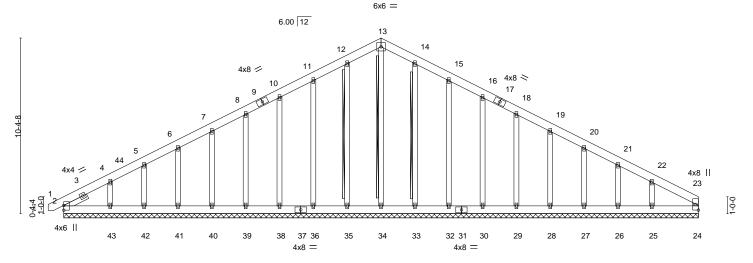
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 39 Duncan's Creek 173190285 J0525-2410 COMMON SUPPORTED GAB A06-GE Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:04 2025 Page 1 Comtech, Inc.

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-9-0 37-6-0 18-9-0

Scale = 1:68.1



LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 24 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 324 lb FT = 20%

37-6-0 37-6-0

WFBS

T-Brace:

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 except end verticals 2x4 SP No.2 BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 13-34, 12-35, 14-33 SLIDER Left 2x4 SP No.2 1-6-4 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 37-6-0.

(lb) -

2x4 SP No 2

Max Horz 2=210(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26 except

43=-160(LC 12), 25=-148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 24, 2, 34, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29,

28, 27, 26, 25

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

TOP CHORD 2-4=-257/111, 10-11=-109/288, 11-12=-131/352, 12-13=-145/389, 13-14=-145/389,

14-15=-131/352, 15-16=-109/288

OTHERS

- 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 18-9-0, Corner(3R) 18-9-0 to 23-1-13, Exterior(2N) 23-1-13 to 37-4-4 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.
- 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) 2, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26 except (jt=lb) 43=160, 25=148.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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 39 Duncan's Creek 173190286 J0525-2410 C01GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:04 2025 Page 1 Comtech, Inc.

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0 9-9-0 9-9-0

Scale = 1:50.8

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

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

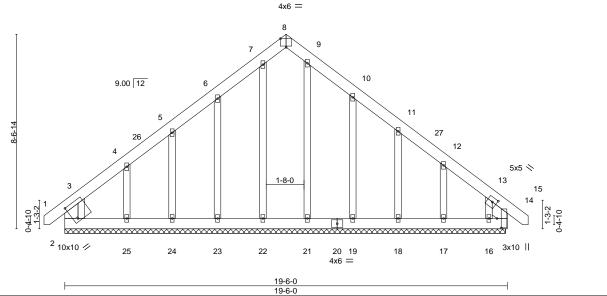


Plate Offsets (X,Y)--[2:0-2-6,0-8-7], [8:0-3-0,Edge], [13:0-2-5,0-2-4], [14:0-5-0,0-2-4] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 14 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 14 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.10 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 171 lb FT = 20%

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

SLIDER Left 2x6 SP No.1 0-10-6, Right 2x6 SP No.1 0-11-10

REACTIONS. All bearings 19-5-0.

(lb) -Max Horz 2=241(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 24, 18, 14 except 23=-115(LC 12), 25=-179(LC 12),

19=-115(LC 13), 17=-107(LC 13), 16=-242(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 21, 19, 18, 17, 16 except 14=278(LC 13)

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

TOP CHORD 13-14=-335/149

# 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) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 9-9-0, Corner(3R) 9-9-0 to 14-1-13, Exterior(2N) 14-1-13 to 20-3-8 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.
- 7) \* 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) 2, 22, 24, 18, 14 except (jt=lb) 23=115, 25=179, 19=115, 17=107, 16=242.
- 9) Non Standard bearing condition. Review 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)



J0525-2410 C02 COMMON 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:05 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0 9-9-0 Scale = 1:51.7 6x6 = 4 9.00 12 4x4 🥢 4x4 N 5 20 21 8 22 23 9 4x6 = 3x10 || 2x4 || 3x10 || 9-9-0 19-6-0 9-9-0 9-9-0 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.08 9-16 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.50 Vert(CT) -0.12 9-16 >999 240 WB 0.62

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.03

0.09

2

9-16

n/a

Rigid ceiling directly applied.

>999

n/a

Structural wood sheathing directly applied.

Weight: 132 lb

FT = 20%

240

Qty

Ply

Lot 39 Duncan's Creek

173190287

LUMBER-

**BCLL** 

BCDL

Job

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

0.0

10.0

SLIDER Left 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0

REACTIONS. (size) 6=0-3-0, 2=0-3-0

Max Horz 2=-190(LC 10)

Truss

Truss Type

Max Uplift 6=-111(LC 8), 2=-111(LC 9) Max Grav 6=1030(LC 2), 2=1030(LC 2)

Rep Stress Incr

Code IRC2021/TPI2014

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

TOP CHORD 2-4=-931/766 4-6=-931/766

**BOT CHORD** 2-9=-421/747, 6-9=-421/747

WFBS 4-9=-578/747

# 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) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior(1) 14-1-13 to 20-3-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

Matrix-AS

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 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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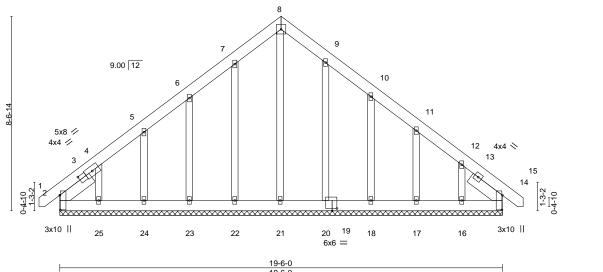


Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190288 J0525-2410 C03 COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:05 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0

> Scale = 1:50.8 5x5 =

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

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



	5010 (71,17)		,,, [	
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 0.04	Vert(LL) -0.00 14 n/r 120 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 14 n/r 120
BCLL	0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00 14 n/a n/a
BCDL	10.0	Code IRC2021/TPI2014	Matrix-S	Weight: 175 lb FT = 20%

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

SLIDER Left 2x6 SP No.1 1-8-15, Right 2x6 SP No.1 1-8-14

REACTIONS. All bearings 19-6-0.

(lb) -Max Horz 2=240(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 20, 17, 14 except 23=-103(LC 12), 24=-122(LC 12),

9-9-0

25=-153(LC 12), 18=-111(LC 13), 16=-184(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 20, 18, 17, 16, 14

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

Plate Offsets (X.Y)-- [2:0-7-12.0-0-4], [2:1-1-6.0-2-0], [14:0-7-12.0-0-4], [19:0-2-8.0-1-4]

TOP CHORD 2-3=-260/173

# 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) -0-9-8 to 3-8-8, Exterior(2N) 3-8-8 to 9-9-0, Corner(3R) 9-9-0 to 14-1-13, Exterior(2N) 14-1-13 to 20-3-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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) 2, 22, 20, 17, 14 except (jt=lb) 23=103, 24=122, 25=153, 18=111, 16=184.



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 39 Duncan's Creek 173190289 J0525-2410 C04 COMMON 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:06 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0 9-9-0 Scale = 1:51.0 6x6 = 3 9.00 12 15 4x4 <> 4

	0-
Plate Offsets (X.Y)	[9:0-4-12.0-2-0]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL)	-0.10 8	8-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT)	-0.14	8-12	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL)	0.05	8-12	>999	240	Weight: 141 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

8

•

7

4x6 =

16

Rigid ceiling directly applied.

1 Row at midpt

19-6-0 9-9-0

3x10 ||

Structural wood sheathing directly applied, except end verticals.

LUMBER-

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

2x4 SP No.2 \*Except\* WFBS 2-9: 2x6 SP No.1 **SLIDER** Right 2x6 SP No.1 2-6-0

REACTIONS.

(size) 5=0-3-8, 9=0-3-8 Max Horz 9=-214(LC 10)

Max Uplift 5=-46(LC 13), 9=-48(LC 12) Max Grav 5=998(LC 20), 9=967(LC 19)

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

×

10x10 /

TOP CHORD 2-3=-1014/217, 3-5=-864/214, 2-9=-831/258

**BOT CHORD** 8-9=-287/775, 5-8=0/723 WEBS 3-8=0/569, 2-8=-241/335

#### 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) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior(1) 14-1-13 to 20-3-8 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9-9-0

- 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) 5, 9.
- 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 Ply Lot 39 Duncan's Creek 173190290 J0525-2410 C05 COMMON Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:06 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 19-6-0 Scale = 1:51.0 6x6 = 2 9.00 12 13 12 4x4 ≫ 3 4x6 🖊 1-3-2  $\aleph$ 5 14 6 4x6 = 4x6 =3x10 || 4x4 Q-6-ρ 19-6-0 9-3-0 9-9-0

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

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 0.30	Vert(LL)	-0.10	6-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT)	-0.14	6-10	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL)	0.05	6-10	>999	240	Weight: 136 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

2x4 SP No.2 \*Except\* WFBS 1-7: 2x6 SP No.1 **SLIDER** Right 2x6 SP No.1 2-6-0

REACTIONS.

(size) 4=0-3-8, 7=0-3-8 Max Horz 7=-175(LC 8)

Max Uplift 4=-34(LC 13), 7=-33(LC 12) Max Grav 4=955(LC 20), 7=909(LC 19)

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

1-2=-1014/214, 2-4=-870/213, 1-7=-772/207 TOP CHORD

**BOT CHORD** 6-7=-239/661, 4-6=-9/721 WEBS 2-6=0/566, 1-6=-159/373

#### 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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-9-0, Exterior(2R) 9-9-0 to 14-1-13, Interior(1) 14-1-13 to 19-6-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 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) 4, 7.
- 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.

1 Row at midpt

May 5,2025

Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190291 J0525-2410 COMMON GIRDER C06-GR Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:07 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-9-0 4-9-0 14-6-0 19-6-0 5-0-0 5-0-0 4-9-0 5-0-0 Scale = 1:52.9 6x6 || 3 9.00 12 5x5 / 2x4 // 8-6-14 4x4 × 5 4x4 || 21 822 7 15 16 17 9 18 19 20 24 25 4x6 = 8x8 =5x10 M18AHS = 5x12 || 8x8 = 6-6-13 12-11-3 19-6-0 6-1-5 6-6-13

Plate Offsets (X, Y)	Plate Offsets (X, Y) [6:0-8-4,Eage], [7:0-4-0,0-4-12], [9:0-4-0,0-4-12], [10:0-4-12,0-2-8]								
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 0.48	Vert(LL) -0.10 7-9 >999 360 MT20 244/190						
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.17 7-9 >999 240 M18AHS 186/179						
BCLL 0.0 *	Rep Stress Incr NO	WB 0.47	Horz(CT) 0.04 6 n/a n/a						
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.05 7-9 >999 240 Weight: 472 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

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

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

except end verticals.

LUMBER-TOP CHORD 2x6 SP No 1

**BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.2 \*Except\* WFBS

1-10: 2x6 SP No.1 **SLIDER** Right 2x6 SP No.1 2-6-0

REACTIONS. (size) 6=0-3-8, 10=0-3-8 Max Horz 10=-198(LC 6)

Max Uplift 6=-480(LC 9), 10=-500(LC 8) Max Grav 6=8551(LC 2), 10=8910(LC 2)

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

TOP CHORD  $1\hbox{-}2\hbox{--}3479/258, 2\hbox{-}3\hbox{--}9361/637, 3\hbox{-}4\hbox{--}9307/643, 4\hbox{-}6\hbox{--}9521/568, 1\hbox{-}10\hbox{--}2294/190}$ 

BOT CHORD 9-10=-450/7176, 7-9=-261/5389, 6-7=-389/7344

WEBS 3-7=-406/5729, 4-7=-209/519, 3-9=-396/5755, 2-9=-209/956, 2-10=-6274/337

# NOTES-

- 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: 2x6 - 2 rows staggered at 0-4-0 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); cantilever left exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 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) except (jt=lb) 6=480, 10=500,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1753 lb down and 109 lb up at 1-7-12, 1753 lb down and 109 lb up at 3-7-12, 1753 lb down and 109 lb up at 5-7-12, 1746 lb down and 109 lb up at 7-7-12, 1723 lb down and 109 lb up at 9-7-12, 1743 lb down and 109 lb up at 11-7-12, 1753 lb down and 109 lb up at 13-7-12, and 1753 lb down and 109 lb up at 15-7-12, and 1753 lb down and 109 lb up at 17-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard May 5,2025



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Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
J0525-2410	C06-GR	COMMON GIRDER	1	_	I73190291

Comtech, Inc, Fayetteville, NC - 28314,

**3** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:07 2025 Page 2 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJČ?f

#### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-6=-60, 10-11=-20

Concentrated Loads (lb)

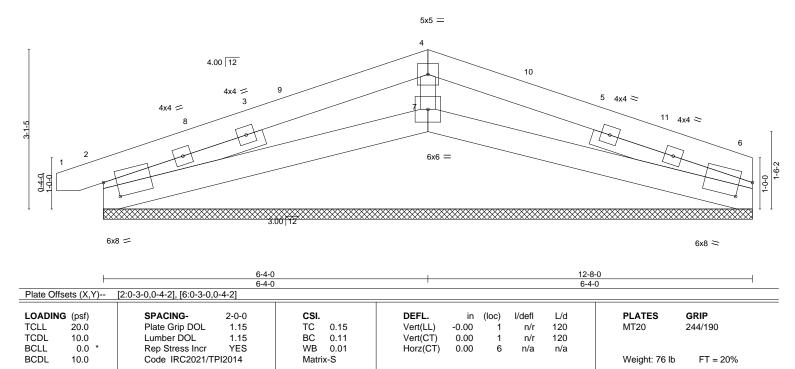
Vert: 15=-1480(B) 16=-1480(B) 17=-1480(B) 18=-1480(B) 20=-1480(B) 22=-1480(B) 23=-1480(B) 24=-1480(B) 25=-1480(B)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty   Ply   Lot 39 Duncan's Creek		Lot 39 Duncan's Creek
					173190292
J0525-2410	D01GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,			8.630 s Se	p 26 2024 MiTek Industries, Inc. Fri May 2 07:16:07 2025 Page 1
•		ID:6XJu	5EDhIOAL	dYBK4rF8r	nKyOFED-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
-0-11-0		6-4-0			12-8-0
0-11-0		6-4-0			6-4-0

Scale = 1:22.5



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

SLIDER Left 2x4 SP No.2 3-3-9, Right 2x4 SP No.2 3-3-9

REACTIONS.

OTHERS

(size) 6=12-8-0, 2=12-8-0, 7=12-8-0

Max Horz 2=-61(LC 17)

Max Uplift 6=-116(LC 9), 2=-146(LC 8), 7=-21(LC 8) Max Grav 6=288(LC 1), 2=339(LC 1), 7=417(LC 1)

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

TOP CHORD 2-4=-450/437, 4-6=-449/434 BOT CHORD 2-7=-318/383, 6-7=-317/383

# 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 12-6-11 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.
- 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.
- 7) \* 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 except (jt=lb) 6=116, 2=146.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.



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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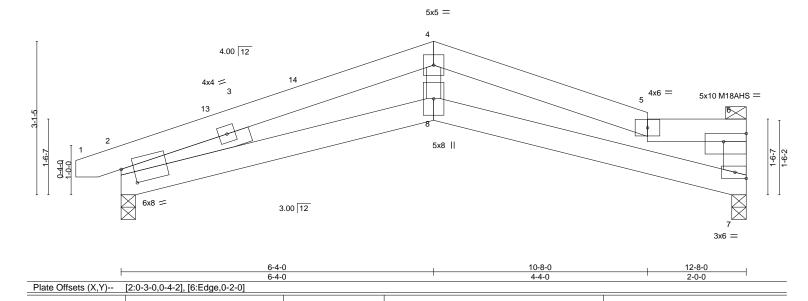
Job Truss Type Qty Ply 173190293 J0525-2410 **ROOF SPECIAL** D02 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:08 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 . 10-8-0 12-8-0 6-4-0

6-4-0

Lot 39 Duncan's Creek

Scale = 1:23.3

2-0-0



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

BOT CHORD

(loc)

8 >839

8 >999

-0.09

-0.18

0.10

0.11

I/defI

>999

n/a

L/d

360

240

n/a

240

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

**PLATES** 

M18AHS

Weight: 71 lb

MT20

Structural wood sheathing directly applied, except end verticals, and

GRIP

244/190

186/179

FT = 20%

LUMBER-

LOADING (psf)

20.0

10.0

0.0

10.0

**TCLL** 

TCDL

**BCLL** 

BCDL

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

**BOT CHORD WEBS** 2x6 SP No.1 \*Except\* 4-8: 2x4 SP No.2

**SLIDER** Left 2x4 SP No.2 2-9-0

REACTIONS.

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=31(LC 16)

Truss

Max Uplift 7=-40(LC 9), 2=-64(LC 8) Max Grav 7=496(LC 1), 2=541(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

1.15

1.15

YES

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

TOP CHORD 2-4=-1148/613, 4-5=-1152/633, 5-6=-1075/567, 6-7=-597/356

**BOT CHORD** 2-8=-609/1086, 7-8=-603/1080

WEBS 4-8=-158/488

## 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-4-0, Exterior(2E) 6-4-0 to 10-8-0, Interior(1) 10-8-0 to 12-5-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB

Matrix-AS

0.57

0.42

0.12

- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) 7, 2 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) 7, 2
- 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.



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173190294 J0525-2410 **ROOF SPECIAL** D03 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:08 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 6-4-0 8-8-0 12-8-0

Qty

Ply

Lot 39 Duncan's Creek

4-0-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

Scale = 1:23.2

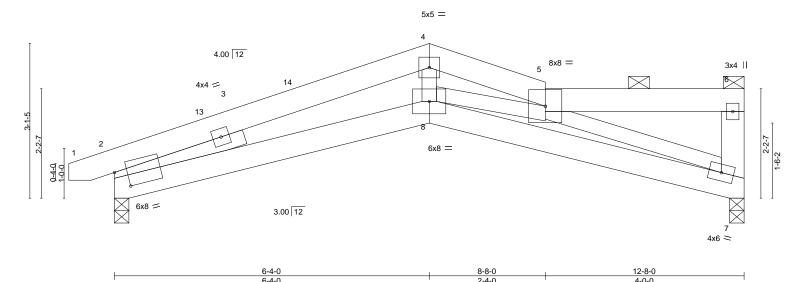


Plate Offs	sets (X,Y)	[2:0-3-0,0-4-2]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	-0.05	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.09	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2021/T	PI2014	Matrix-AS	Wind(LL)	0.06	8	>999	240	Weight: 82 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

Job

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

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

6-7: 2x6 SP No.1 **SLIDER** Left 2x4 SP No.2 2-9-0

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

Max Horz 2=58(LC 11) Max Uplift 2=-62(LC 8), 7=-43(LC 9)

Truss

Truss Type

6-4-0

Max Grav 2=541(LC 1), 7=496(LC 1)

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

TOP CHORD 2-4=-1355/800, 4-5=-1339/826 **BOT CHORD** 2-8=-845/1291, 7-8=-799/1280 WEBS 4-8=-299/649, 5-7=-1236/776

#### 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-4-0, Exterior(2E) 6-4-0 to 8-8-0, Interior(1) 8-8-0 to 12-5-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



May 5,2025

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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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190295 J0525-2410 D04 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:09 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-4-0

6-4-0

6-4-0

Scale = 1:22.9

12-8-0

6-0-0

12-8-0 6-4-0

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

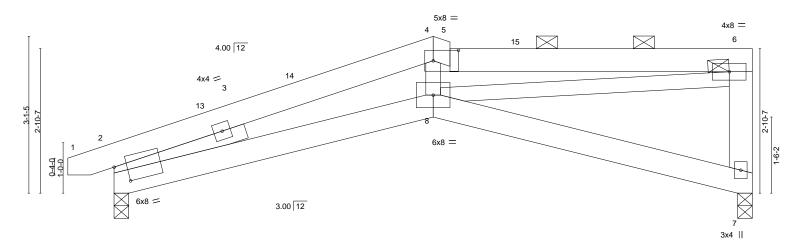


Plate Off	sets (X,Y)	[2:0-3-0,0-4-2], [4:0-6-0,0-2-8]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.06 8 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.12 8 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.07 7 n/a n/a
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.08 8 >999 240 Weight: 83 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 \*Except\* WFBS 6-7: 2x6 SP No.1

-0-11-0 0-11-0

**SLIDER** Left 2x4 SP No.2 2-9-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=90(LC 11)

Max Uplift 2=-58(LC 8), 7=-49(LC 9)

Max Grav 2=541(LC 1), 7=496(LC 1)

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

TOP CHORD 2-4=-1391/847, 4-5=-1102/715, 5-6=-1299/849, 6-7=-426/301

**BOT CHORD** 2-8=-945/1330

WEBS 4-8=-14/274, 6-8=-816/1157

# 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-4-0, Exterior(2E) 6-4-0 to 6-8-0, Interior(1) 6-8-0 to 12-5-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

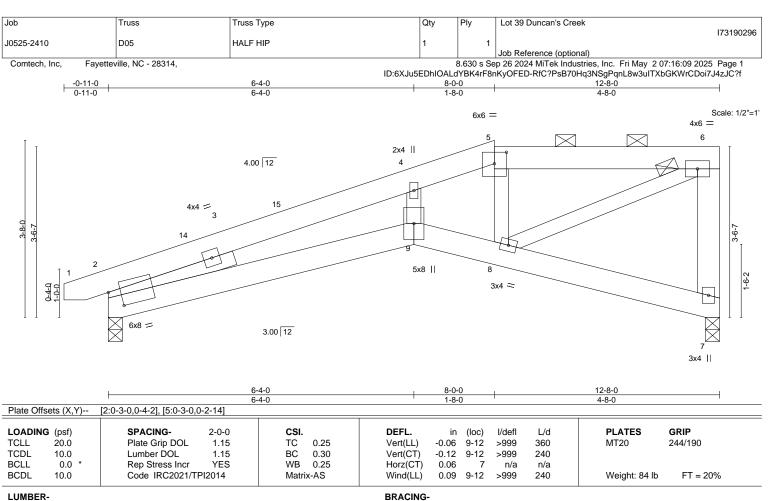


May 5,2025

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/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)





BOT CHORD

LUMBER-

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

**BOT CHORD WEBS** 2x4 SP No.2 \*Except\* 6-7: 2x6 SP No.1

**SLIDER** Left 2x4 SP No.2 2-9-0

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

Max Horz 2=117(LC 11)

Max Uplift 2=-74(LC 8), 7=-57(LC 8) Max Grav 2=541(LC 1), 7=496(LC 25)

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

TOP CHORD 2-4=-991/573, 4-5=-862/554, 5-6=-879/593, 6-7=-507/370

**BOT CHORD** 2-9=-729/924, 8-9=-682/868 WEBS 5-8=-262/263, 6-8=-712/962

# 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 8-0-0, Exterior(2E) 8-0-0 to 12-5-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



Structural wood sheathing directly applied, except end verticals, and

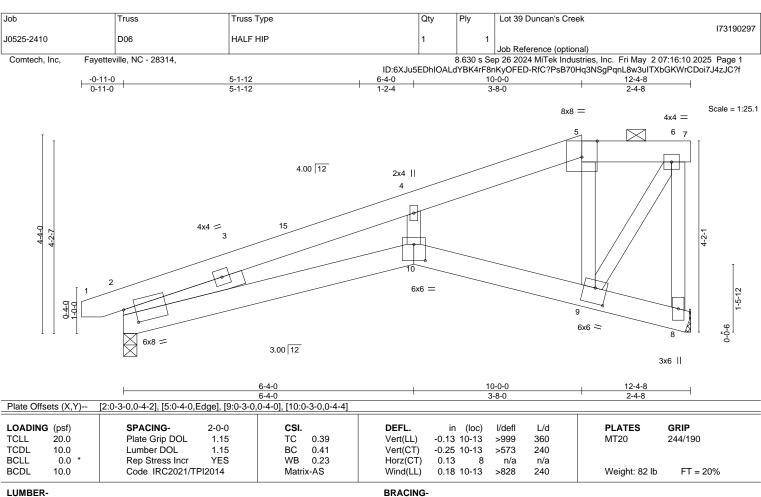
2-0-0 oc purlins (6-0-0 max.): 5-6.

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 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No 2 WFBS

SLIDER Left 2x4 SP No.2 2-9-0

REACTIONS.

(size) 2=0-3-8, 8=Mechanical Max Horz 2=116(LC 8) Max Uplift 2=-58(LC 8), 8=-71(LC 8) Max Grav 2=527(LC 1), 8=488(LC 1)

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

TOP CHORD 2-4=-588/250, 4-5=-493/280, 5-6=-485/329, 6-8=-689/455

**BOT CHORD** 2-10=-359/524. 9-10=-327/481 **WEBS** 5-9=-434/367, 6-9=-638/940

## 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 10-0-0, Exterior(2E) 10-0-0 to 12-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 2 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) 2, 8.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.

May 5,2025

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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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190298 J0525-2410 G01GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:10 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 12-8-0 Scale = 1:34.9 5x5 = 6 9.00 12 5 18 4x4 // 4x4 🛇 11 10 3x10 || 3x10 || 16 15 14 13 12 12-8-0 12-8-0 Plate Offsets (X,Y)--[2:0-7-12,0-0-4], [10:0-7-12,0-0-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 10 n/r 120 MT20 244/190

**BCLL** 0.0 Rep Stress Incr BCDL 10.0 Code IRC2021/TPI2014

BRACING-

Vert(CT)

Horz(CT)

0.00

0.00

10

10

n/r

n/a

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

10.0

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

120

n/a

Weight: 105 lb

FT = 20%

SLIDER Left 2x6 SP No.1 1-8-9, Right 2x6 SP No.1 1-8-9

Lumber DOL

REACTIONS. All bearings 12-8-0.

(lb) -Max Horz 2=164(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-174(LC 12), 12=-166(LC 13)

BC

WB

Matrix-S

0.02

0.07

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

1.15

YES

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

**WEBS** 4-16=-171/275, 8-12=-171/273

## NOTES-

TCDL

- 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) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 6-4-0, Corner(3R) 6-4-0 to 10-8-13, Exterior(2N) 10-8-13 to 13-5-8 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.
- 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) 2, 10, 15, 13 except (jt=lb) 16=174, 12=166.



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)



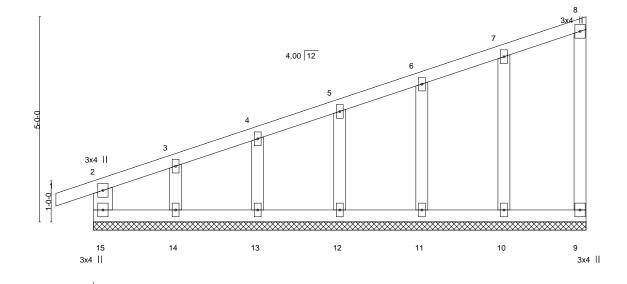
Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
	 				I73190299
J0525-2410	M01GE	GABLE	1	1	Joh Reference (antional)

Comtech, Inc, Fayetteville, NC - 28314,

-0-11-0 0-11-0

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:11 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:28.1



LOADING         (psf)         SPACING-         2-0-0         CSI.           TCLL         20.0         Plate Grip DOL         1.15         TC         0.16           TCDL         10.0         Lumber DOL         1.15         BC         0.13           BCLL         0.0 *         Rep Stress Incr         YES         WB         0.05           BCDL         10.0         Code IRC2021/TPI2014         Matrix-R	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.00         1         n/r         120           Vert(CT)         -0.00         1         n/r         120           Horz(CT)         -0.00         9         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 64 lb FT = 20%
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LUMBER-**BRACING-**

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

2x4 SP No.1 BOT CHORD except end verticals 2x4 SP No.2 \*Except\* BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS 2-15: 2x6 SP No.1

2x4 SP No.2 REACTIONS. All bearings 12-0-0. (lb) -Max Horz 15=190(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 9, 10, 11, 12, 13 except 14=-166(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 9, 15, 10, 11, 12, 13, 14

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

TOP CHORD 2-3=-346/102, 3-4=-252/75

**WEBS** 3-14=-131/281

## NOTES-

**OTHERS** 

- 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 Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 11-10-4 zone; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 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) 9, 10, 11, 12, 13 except (jt=lb) 14=166.



May 5,2025



Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190300 J0525-2410 M02 MONOPITCH 6 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:11 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 6-0-4 Scale = 1:28.7 5 3x4-H 4.00 12 11 3x4 = 3 10 3x6 = 2 12 13 8 6x6 = 62x4 || 4x6 | 6-0-4 12-0-0 6-0-4 5-11-12 Plate Offsets (X,Y)-- [2:0-0-8,0-1-8]

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	0.41	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.10	7-8	>999	240	Weight: 58 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.2 \*Except\* **WEBS** 2-9: 2x6 SP No.1

REACTIONS.

(size) 9=0-3-0, 7=Mechanical Max Horz 9=135(LC 8)

Max Uplift 9=-190(LC 8), 7=-207(LC 8) Max Grav 9=532(LC 1), 7=468(LC 1)

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

TOP CHORD 2-3=-621/688, 2-9=-451/457 **BOT CHORD** 8-9=-798/528, 7-8=-798/528 **WEBS** 3-8=-366/224, 3-7=-549/832

# 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 12-0-0 zone; end vertical left exposed; 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) except (jt=lb) 9=190, 7=207.
- 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.

May 5,2025

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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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190301 J0525-2410 M03 MONOPITCH Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:11 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 11-10-4 5-11-2 5-11-2 Scale = 1:28.5 4 5 3x4-H 4.00 12 3x4 = 3 10 3x6 =12 13 8 2x4 || 6x6 = 4x6 || 5-11-2 5-8-12 5-11-2

Plate Offsets (X,Y)--[2:0-0-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.03 7-8 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.30 -0.07 7-8 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.36 Horz(CT) -0.01 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

0.09

7-8

>999

Rigid ceiling directly applied.

240

Weight: 58 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

BCDL

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

10.0

2x4 SP No.2 \*Except\* **WEBS** 2-9: 2x6 SP No.1

REACTIONS. (size) 9=0-3-0, 7=0-4-15

Max Horz 9=133(LC 8)

Max Uplift 9=-188(LC 8), 7=-204(LC 8) Max Grav 9=526(LC 1), 7=462(LC 1)

Code IRC2021/TPI2014

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

TOP CHORD 2-3=-612/686, 2-9=-445/456

**BOT CHORD** 8-9=-796/519. 7-8=-796/519 **WEBS** 

3-8=-363/220, 3-7=-539/828

# 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 11-10-4 zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=188, 7=204.
- 5) 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 5,2025

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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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190302 J0525-2410 M04GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:12 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-4-0 1-4-0 Scale = 1:15.6 4x6 = 2x4 || 4.00 12 0-3-8 2x4 || 3 2x4 0-6-3 12 10 11 2x4 || 2x4 || 6x6 = 3x4 = 6-1-8 6-1-8 Plate Offsets (X,Y)--[5:0-1-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00 5 120 n/r WB **BCLL** 0.0 Rep Stress Incr NO 0.04 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-P Weight: 30 lb FT = 20%

TOP CHORD BOT CHORD 2x4 SP No.1

2x4 SP No 1

2x4 SP No.2 WERS **OTHERS** 

2x4 SP No.2

**BRACING-**TOP CHORD

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

except end verticals. Except:

6-0-0 oc bracing: 5-9

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

REACTIONS. All bearings 6-4-4.

(lb) -Max Horz 2=119(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 12, 11 except 10=-160(LC 12) Max Grav All reactions 250 lb or less at joint(s) 2, 7, 12, 11 except 10=567(LC 1)

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

TOP CHORD 9-10=-391/491

#### NOTES-

LUMBER-

- 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) -1-4-0 to 3-0-13, Exterior(2N) 3-0-13 to 6-1-8 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.
- 7) \* 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) 2, 7, 12, 11 except (jt=lb) 10=160.
- 9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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 Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 2-10=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 9=-400



May 5,2025





Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190303 J0525-2410 M05 MONOPITCH 6 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:12 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-4-0 1-4-0 Scale: 3/4"=1" 3x4 || 3 4.00 12 0-5-8 2x4 0-6-3 10 8 3x10 II 3x4 =2x4 || 6-1-8 6-1-8 DEFL. GRIP LOADING (psf) SPACING-2-0-0 CSI. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.03 10-13 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.35 Vert(CT) -0.07 10-13 >981 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.01 Horz(CT) 0.00 n/a n/a Code IRC2021/TPI2014 Wind(LL) 0.06 10-13 BCDL 10.0 Matrix-MP >999 240 Weight: 32 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals. Except:

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

6-0-0 oc bracing: 3-9

2x6 SP No.1

BOT CHORD 2x4 SP No.2 WFBS

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

Max Horz 2=87(LC 8)

Max Uplift 2=-72(LC 8), 8=-76(LC 12) Max Grav 2=374(LC 1), 8=769(LC 1)

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

TOP CHORD 9-10=-696/592

# 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) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 6-1-8 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.
- 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) 2, 8.
- 7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 7-11=-20, 6-9=-130, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-500



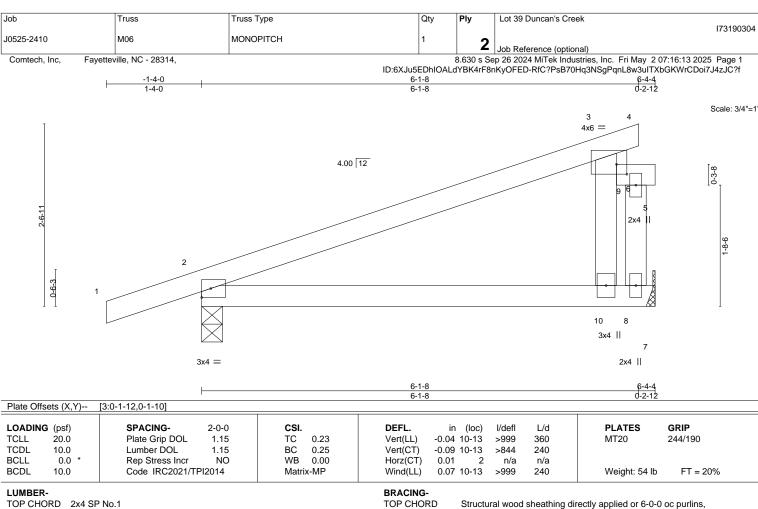
May 5,2025

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/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)





**BOT CHORD** 

except end verticals. Except:

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

6-0-0 oc bracing: 3-9

2x4 SP No 1 2x4 SP No 1

BOT CHORD 2x4 SP No 2 WFBS

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

Max Horz 2=87(LC 8)

Max Uplift 2=-69(LC 8), 8=-54(LC 12)

Max Grav 2=353(LC 1), 8=536(LC 1)

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

TOP CHORD 9-10=-490/451

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 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) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 6-1-8 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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 Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 7-11=-20, 5-9=-20

Concentrated Loads (lb)

Vert: 9=-300

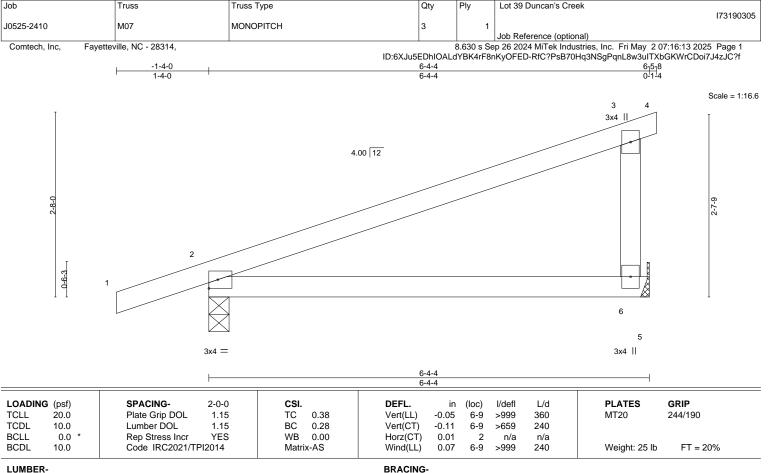


May 5,2025

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LUMBER-

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=91(LC 8)

Max Uplift 6=-41(LC 12), 2=-65(LC 8) Max Grav 6=263(LC 1), 2=331(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) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 6-5-8 zone; 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) 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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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 39 Duncan's Creek 173190306 J0525-2410 VC1 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:13 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-10-3 17-8-6 8-10-3 8-10-3 Scale = 1:42.5 4x4 = 3 9.00 12 2x4 || 2x4 || 4 11 10 3x4 // 3x4 N 9 8 12 6 3x4 = 2x4 || 2x4 || 2x4 || 17-8-6 0-0-8 17-7-14

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

LOADING (psf)

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

20.0

0.0

10.0

**BRACING-**

**DEFL** 

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD BOT CHORD in (loc)

n/a

n/a

0.00

I/defI

n/a

n/a

n/a

5

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

**PLATES** 

Weight: 76 lb

MT20

GRIP

244/190

FT = 20%

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

L/d

999

999

n/a

REACTIONS. All bearings 17-7-6.

Max Horz 1=-151(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-140(LC 12), 6=-140(LC 13)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=397(LC 22), 9=550(LC 19), 6=546(LC 20)

CSI.

TC

вс

WB

Matrix-S

0.20

0.16

0.10

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

**WEBS** 2-9=-335/250, 4-6=-335/250

# NOTES-

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

- 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) 0-5-5 to 4-10-3, Interior(1) 4-10-3 to 8-10-3, Exterior(2R) 8-10-3 to 13-3-0, Interior(1) 13-3-0 to 17-3-1 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=140, 6=140,





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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190307 J0525-2410 VC2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:14 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-6-3 7-6-3 15-0-6 Scale = 1:34.3 4x4 = 9.00 12 2x4 || 2x4 || 4 10 8 7 6 2x4 || 2x4 || 2x4 || 15-0-6 14-11-14 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 62 lb FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 14-11-6.

Max Horz 1=127(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-118(LC 12), 6=-118(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=363(LC 19), 6=363(LC 20)

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

**WEBS** 2-8=-281/245, 4-6=-281/245

# 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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 7-6-3, Exterior(2R) 7-6-3 to 11-11-0, Interior(1) 11-11-0 to 14-7-1 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 except (jt=lb) 8=118, 6=118.





Qty 173190308 J0525-2410 VC3 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:14 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f . 12-4-6 Scale = 1:28.2 4x4 = 3 9.00 12 2x4 || 4<sup>2x4</sup> || 2 10 3x4 / 3x4 💸 2x4 || 2x4 || 2x4 || 0-0-8 0-0-8 12-4-6 12-3-14 SPACING-CSI. GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 Weight: 49 lb BCDL 10.0 Matrix-S FT = 20%

Ply

Lot 39 Duncan's Creek

LUMBER-

**OTHERS** 

Job

Truss

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

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

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

REACTIONS. All bearings 12-3-6.

Max Horz 1=-103(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-107(LC 12), 6=-107(LC 13)

Truss Type

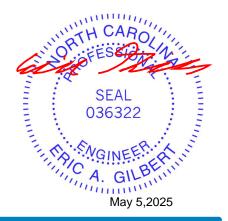
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=319(LC 19), 6=319(LC 20)

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

**WEBS** 2-8=-256/262, 4-6=-256/262

# 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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-2-3, Exterior(2R) 6-2-3 to 10-7-0, Interior(1) 10-7-0 to 11-11-1 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 except (|t=|b|) 8=107, 6=107,

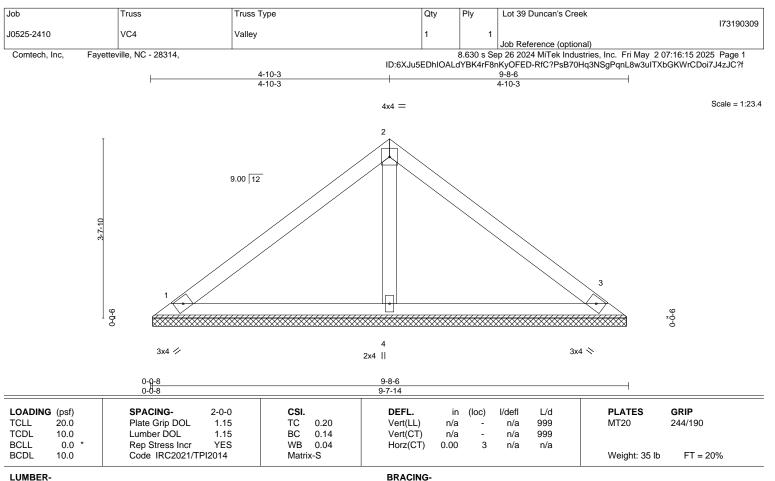




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=9-7-6, 3=9-7-6, 4=9-7-6

Max Horz 1=79(LC 11)

Max Uplift 1=-21(LC 12), 3=-29(LC 13)

Max Grav 1=182(LC 1), 3=182(LC 1), 4=342(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.
- 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, 3.



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

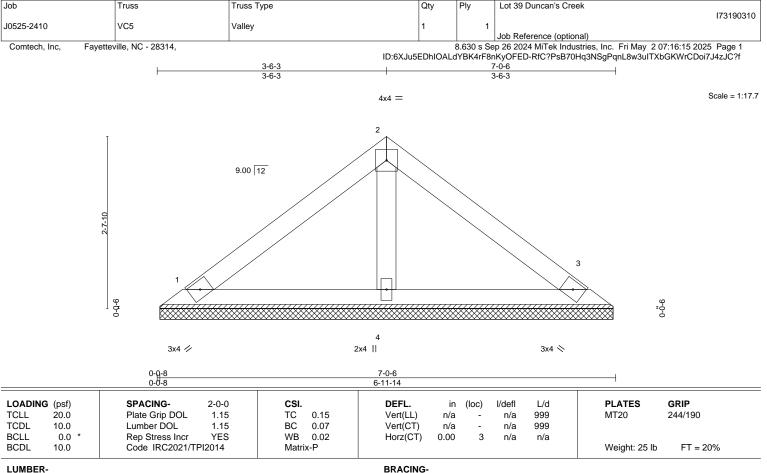
Rigid ceiling directly applied or 10-0-0 oc bracing.

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BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-11-6, 3=6-11-6, 4=6-11-6 Max Horz 1=55(LC 9)

Max Uplift 1=-21(LC 12), 3=-27(LC 13)

Max Grav 1=138(LC 1), 3=138(LC 1), 4=216(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.
- 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, 3.



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

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

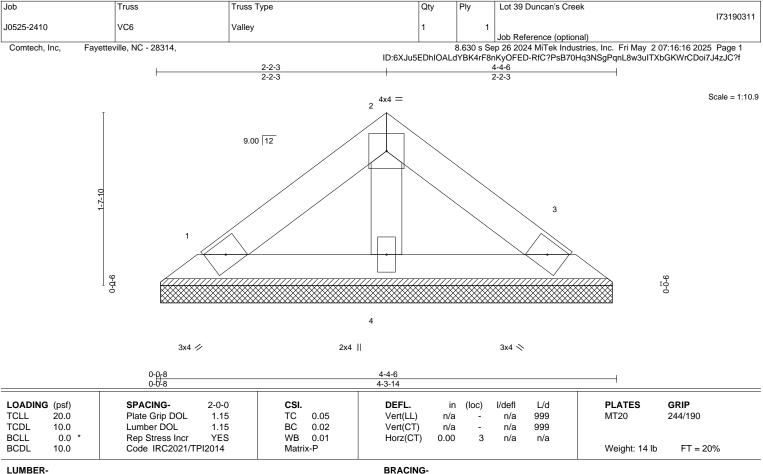


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BOT CHORD

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

2x4 SP No.2 **OTHERS** 

REACTIONS. (size) 1=4-3-6, 3=4-3-6, 4=4-3-6

Max Horz 1=31(LC 11)

Max Uplift 1=-12(LC 12), 3=-15(LC 13) Max Grav 1=78(LC 1), 3=78(LC 1), 4=122(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.
- 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, 3.



Structural wood sheathing directly applied or 4-4-6 oc purlins.

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

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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190312 J0525-2410 VG1 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:16 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-5-10 5-5-10 Scale = 1:25.3 4x4 = 9.00 12 2x4 || 4 2x4 || 8 2x4 || 3x4 // 3x4 💸 2x4 || 2x4 || 0-0-8 0-0-8 10-11-3 10-10-11 SPACING-CSI. GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB 0.05 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 Weight: 42 lb BCDL 10.0 Matrix-S FT = 20% LUMBER-**BRACING-**

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

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 10-10-3.

Max Horz 1=-90(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-116(LC 12), 6=-116(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=339(LC 19), 6=339(LC 20)

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

**WEBS** 2-8=-281/311, 4-6=-280/311

### 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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-5-10, Exterior(2R) 5-5-10 to 9-10-6, Interior(1) 9-10-6 to 10-5-14 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 except (|t=|b|) 8=116, 6=116.





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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173190313 J0525-2410 VG2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:16 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-1-10 4-1-10 Scale = 1:21.2 4x4 =2 9.00 12 9-0-0 9-0-0 3x4 × 3x4 // 2x4 || 0-0-8 8-3-3 8-2-11 SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.10 Vert(CT) n/a n/a 999 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-P Weight: 30 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Lot 39 Duncan's Creek

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

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

LUMBER-

Job

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

REACTIONS.

(size) 1=8-2-3, 3=8-2-3, 4=8-2-3

Max Horz 1=-66(LC 10)

Truss

Truss Type

Max Uplift 1=-26(LC 12), 3=-32(LC 13)

Max Grav 1=166(LC 1), 3=166(LC 1), 4=259(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.
- 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, 3.



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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190314 J0525-2410 VG3 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:17 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-9-10 2-9-10 Scale = 1:15.0 4x4 = 2 9.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 💸 0-0-8 0-0-8 5-7-3 SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 WB 0.01 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-P Weight: 19 lb FT = 20% LUMBER-**BRACING-**

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.

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

REACTIONS. (size) 1=5-6-3, 3=5-6-3, 4=5-6-3

Max Horz 1=-42(LC 8)

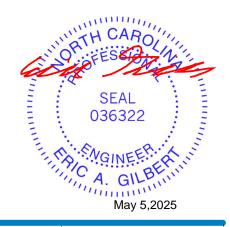
Max Uplift 1=-16(LC 12), 3=-20(LC 13)

Max Grav 1=106(LC 1), 3=106(LC 1), 4=166(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.
- 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, 3.





Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190315 J0525-2410 VG4 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:16:17 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-5-10 1-5-10 1-5-10 Scale = 1:8.3 9.00 12 3 0-0-6 9-0-0 3x4 N 3x4 // 0-0-8 0-0-8 2-11-3 2-10-11 Plate Offsets (X.Y)-- [2:0-2-0.Edge]

T late on	3613 (A, I )	[2.0-2-0,Luge]										
LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI201	14	Matri	x-P						Weight: 8 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

2x4 SP No 1

2x4 SP No.1

(size) 1=2-10-3, 3=2-10-3 Max Horz 1=-19(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=82(LC 1), 3=82(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.
- 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, 3.



Structural wood sheathing directly applied or 2-11-3 oc purlins.

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

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### 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

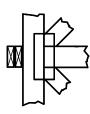
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

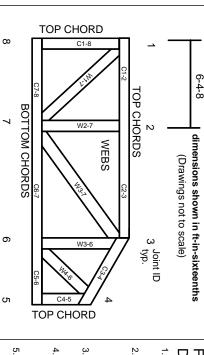
### Industry Standards: ANSI/TPI1: National I

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

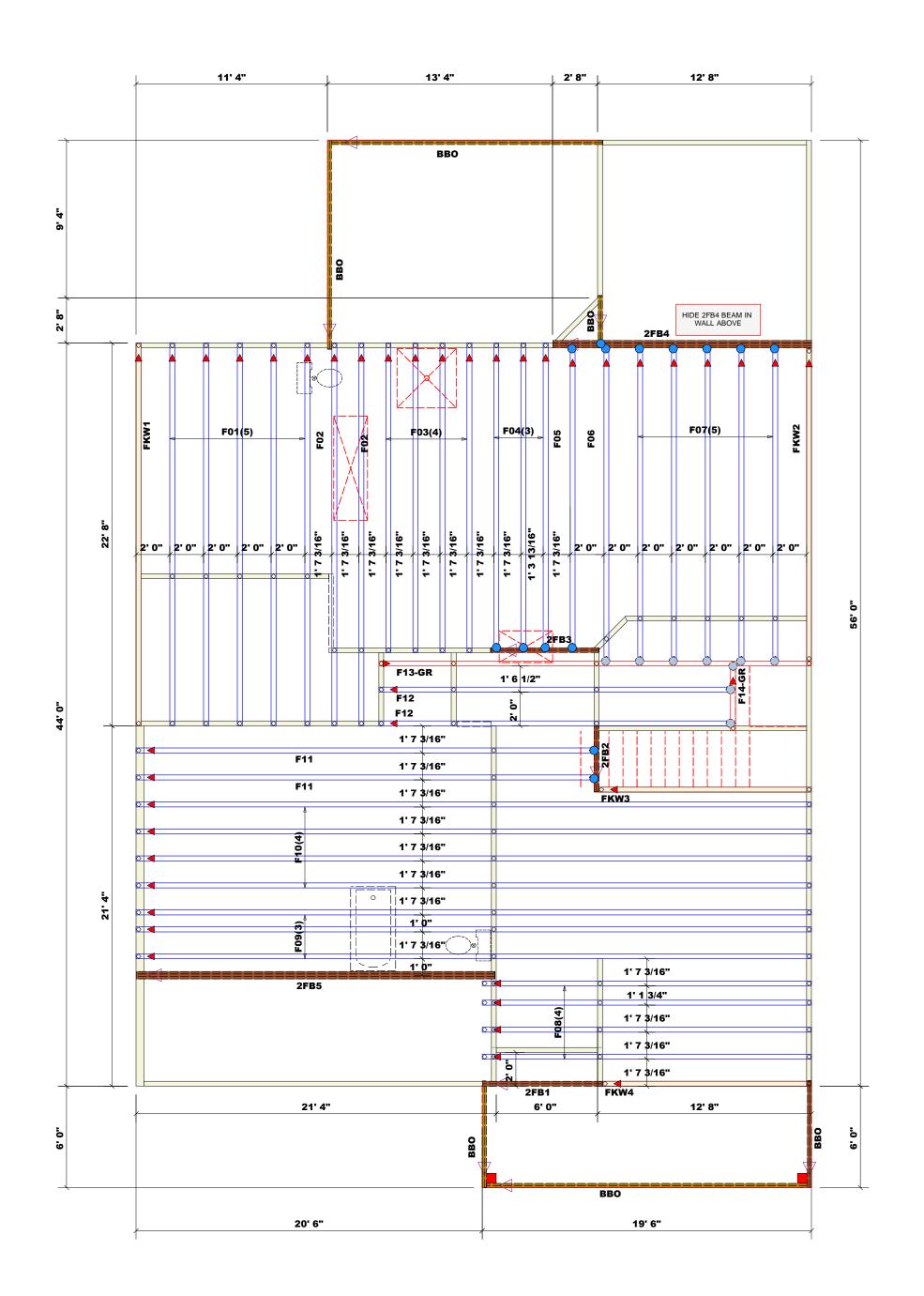
# ▲ General Safety Notes

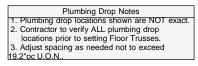
## Failure to Follow Could Cause Property Damage or Personal Injury

- 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 wall 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



		Products		
PlotID	Length	Product	Plies	Net Qty
2FB1	8' 0"	1-3/4"x 14" LVL Kerto-S	2	2
2FB3	7' 0"	1-3/4"x 14" LVL Kerto-S	2	2
2FB2	4' 0"	1-3/4"x 14" LVL Kerto-S	2	2
2FB4	16' 0"	1-3/4"x 16" LVL Kerto-S	3	3
2FB5	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3

	Conne	ctor Info	rmati	ion	Nail Info	ormation
Sym Product Manuf			Qty	Supported Member	Header	Truss
	HUS410	USP	14	NA	16d/3-1/2"	16d/3-1/2"
$\bigcirc$	MSH422	USP	9	Varies	10d/3"	10d/3"

COMTECH **ROOF & FLOOR** 

### **TRUSSES & BEAMS**

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 leemed to comply with the prescriptive Code equirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code equirements ) to determine the minimum foundation size and number of wood studs required to support eactions greater than 3000# but not greater than 15000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached Tables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

Signature Johnnie Baggett

Johnnie Baggett

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

	(B	ASED C	N TABLE:	5 R502.	5(1) & (1	o))				
NUI	NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER									
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	1			
3400	2		5100	2		6800	2			
5100	3		7650	3		10200	3			
6800	4		10200	4		13600	4			
8500	5		12750	5		17000	5			
10200	6		15300	6						
11900	7									
13600	8									
15300	9									

	ADDRESS	ADDRESS 697 Beacon Hill Road
8	MODEL	2nd Floor
	DATE REV.	5/2/25
	DRAWN BY	Johnnie Baggett
	SALES REP.	Johnnie Baggett

New Home Inc JOB NAME BUILDER

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: J0525-2413

Lot 39 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: I73190347 thru I73190364

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

North Carolina COA: C-0844



May 5,2025

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 39 Duncan's Creek
					173190347
J0525-2413	F01	FLOOR	5	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:00 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

22-8-0

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

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

except end verticals.

0-1-8 H|-1-3-0 1-11-4 1-11-12 0-1-8 Scale = 1:38.4

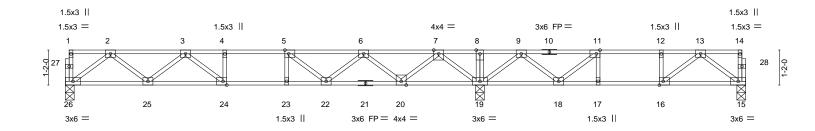


Plate Offsets (X,Y)	13-9-1 [5:0-1-8,Edge], [11:0-1-8,Edge], [16:0-1			'			8-10-4	·
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.37 BC 0.53 WB 0.43 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.10 24-25 -0.13 24-25 0.02 15	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 112 lb	<b>GRIP</b> 244/190  FT = 20%F, 11%E

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

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

REACTIONS. (size) 26=0-3-8, 15=0-3-8, 19=0-3-8

Max Grav 26=673(LC 10), 15=395(LC 4), 19=1485(LC 1)

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

2-3=-1312/0, 3-4=-1983/0, 4-5=-1983/0, 5-6=-1682/0, 6-7=-724/117, 7-8=0/1341, TOP CHORD

8-9=0/1341, 9-11=-352/446, 11-12=-679/150, 12-13=-679/150 25-26=0/830, 24-25=0/1763, 23-24=0/1983, 22-23=0/1983, 20-22=0/1364, 19-20=-343/61,

BOT CHORD 18-19=-685/16, 17-18=-150/679, 16-17=-150/679, 15-16=-17/437

2-26=-1039/0, 2-25=0/628, 3-25=-587/0, 3-24=-24/387, 7-19=-1299/0, 7-20=0/910,

13-9-12

6-20=-875/0, 6-22=0/471, 5-22=-553/0, 13-15=-544/21, 13-16=-171/310, 9-19=-915/0,

9-18=0/578, 11-18=-635/0

### 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) 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 39 Duncan's Creek
					173190348
J0525-2413	F02	FLOOR	2	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:01 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8



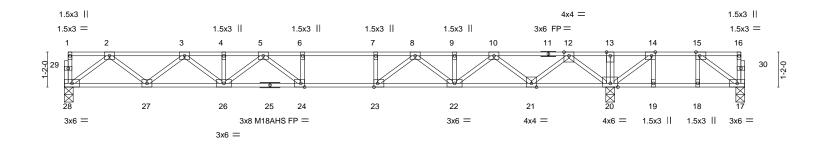


Plate Offsets (X,Y)	[14:0-1-8,Edge], [15:0-1-8,Edge], [23:0-	18-2-4 1-8,Edge], [24:0-1-8,Edge	e]	4-5-12
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	TC 0.70 BC 0.76 WB 0.48	Vert(LL) -0.23 24-26 >924 480 Vert(CT) -0.32 24-26 >671 360 Horz(CT) 0.05 20 n/a n/a	MT20 244/190 M18AHS 186/179
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.48 Matrix-S	Horz(CT) 0.05 20 n/a n/a	Weight: 115 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

BOT CHORD

18-2-4

LUMBER-

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

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

REACTIONS. (size) 28=0-3-8, 17=0-3-8, 20=0-3-8

Max Uplift 17=-212(LC 3)

Max Grav 28=728(LC 10), 17=112(LC 4), 20=1315(LC 1)

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

TOP CHORD 2-3=-1524/0, 3-4=-2515/0, 4-5=-2515/0, 5-6=-2867/0, 6-7=-2867/0, 7-8=-2867/0,

8-9=-2053/0. 9-10=-2053/0. 10-12=-778/0. 12-13=0/1159. 13-14=0/1159. 14-15=-36/493

**BOT CHORD** 27-28=0/911, 26-27=0/2116, 24-26=0/2780, 23-24=0/2867, 22-23=0/2482, 21-22=0/1503,

19-20=-493/36, 18-19=-493/36, 17-18=-493/36

**WEBS** 2-28=-1141/0, 2-27=0/798, 3-27=-770/0, 3-26=0/510, 12-20=-1382/0, 12-21=0/1003,

10-21=-952/0, 10-22=0/710, 8-22=-555/0, 8-23=0/682, 5-26=-338/0, 5-24=-133/400,

7-23=-313/0, 15-17=-40/615, 14-20=-942/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 17.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



22-8-0

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

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

except end verticals.

May 5,2025

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/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 39 Duncan's Creek
					173190349
J0525-2413	F03	FLOOR	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:01 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

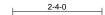
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

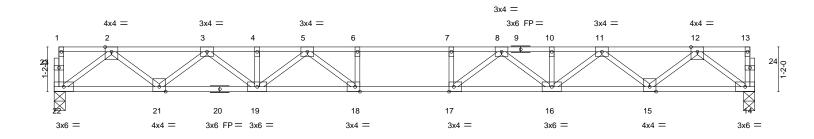
except end verticals.

0-1-8





0-1-8 Scale = 1:30.1



			18-4-0	· · · · · · · · · · · · · · · · · · ·
Plate Offsets (X,Y)	[17:0-1-8,Edge], [18:0-1-8,Edge]			
	1			
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 0.54	Vert(LL) -0.25 17-18 >866 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.72	Vert(CT) -0.34 17-18 >629 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.06 14 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 92 lb FT = 20%F, 11%E

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 22=0-3-8, 14=0-3-8

Max Grav 22=790(LC 1), 14=790(LC 1)

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

2-3=-1682/0, 3-4=-2819/0, 4-5=-2819/0, 5-6=-3405/0, 6-7=-3405/0, 7-8=-3405/0, TOP CHORD

8-10=-2819/0, 10-11=-2819/0, 11-12=-1682/0

BOT CHORD 21-22=0/994, 19-21=0/2343, 18-19=0/3167, 17-18=0/3405, 16-17=0/3167, 15-16=0/2343, 14-15=0/994

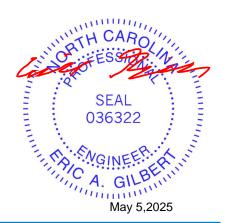
> 2-22=-1245/0, 2-21=0/896, 3-21=-861/0, 3-19=0/608, 12-14=-1245/0, 12-15=0/896,  $11-15=-861/0,\ 11-16=0/608,\ 5-19=-444/0,\ 5-18=-32/585,\ 8-16=-444/0,\ 8-17=-32/585,$

7-17=-273/0, 6-18=-273/0

### NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 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 39 Duncan's Creek
					173190350
J0525-2413	F04	Floor	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:02 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

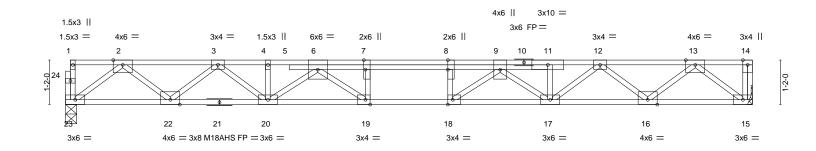
except end verticals.

0-1-8



2-0-8

Scale = 1:30.3



			10 0 0	
Plate Offsets (X,Y)	[7:0-3-0,Edge], [8:0-3-0,0-0-0], [18:0-1-			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL) -0.25 18-19 >871 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.34 18-19 >633 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.07 15 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 101 lb FT = 20%F, 11%E

**BRACING-**TOP CHORD

BOT CHORD

18-0-8 18-0-8

LUMBER-

REACTIONS.

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

BOT CHORD

WFBS 2x4 SP No.3(flat)

(size) 23=0-3-8, 15=Mechanical Max Grav 23=972(LC 1), 15=979(LC 1)

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

TOP CHORD 2-3=-2064/0, 3-4=-3437/0, 4-6=-3438/0, 6-7=-4366/0, 7-8=-4366/0, 8-9=-4366/0,

9-11=-3458/0, 11-12=-3458/0, 12-13=-2063/0

BOT CHORD 22-23=0/1221, 20-22=0/2873, 19-20=0/4000, 18-19=0/4366, 17-18=0/4066, 16-17=0/2869,

15-16=0/1223

WFBS 2-23=-1529/0, 2-22=0/1097, 3-22=-1053/0, 3-20=0/720, 6-20=-702/0, 6-19=-4/779,

7-19=-421/3, 13-15=-1535/0, 13-16=0/1093, 12-16=-1049/0, 12-17=0/752, 9-17=-758/0,

9-18=-73/733, 8-18=-392/45

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) 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.



May 5,2025



Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					I73190351
J0525-2413	F05	FLOOR	1	1	
					Lob Reference (ontional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:02 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-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 1-9-0

Scale = 1:29.2

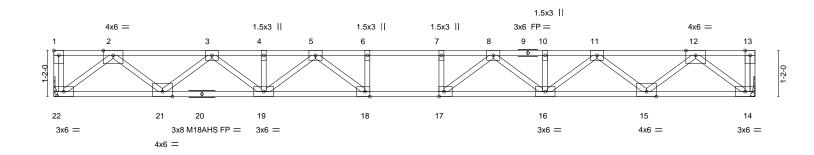


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]								
r late enests (A, r)	[::=age;e : ej; [:::e : e;=agej; [:e:e :	0,2090]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.25 17-18 >841 480	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.75	Vert(CT) -0.34 17-18 >612 360	M18AHS 186/179					
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.07 14 n/a n/a						
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 91 lb FT = 20%F, 11%E					

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=Mechanical Max Grav 22=963(LC 1), 14=963(LC 1)

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

TOP CHORD 2-3=-2023/0, 3-4=-3369/0, 4-5=-3369/0, 5-6=-4004/0, 6-7=-4004/0, 7-8=-4004/0,

8-10=-3369/0, 10-11=-3369/0, 11-12=-2023/0

BOT CHORD 21-22=0/1202, 19-21=0/2811, 18-19=0/3763, 17-18=0/4004, 16-17=0/3763, 15-16=0/2811, 14-15=0/1202

> 2-22=-1508/0, 2-21=0/1069, 3-21=-1026/0, 3-19=0/712, 12-14=-1508/0, 12-15=0/1069,  $11-15 = -1026/0,\ 11-16 = 0/712,\ 8-16 = -504/0,\ 8-17 = -85/626,\ 5-19 = -504/0,\ 5-18 = -85/626,$

6-18=-296/3, 7-17=-296/3

### NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





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Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190352 J0525-2413 Floor F06 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:02 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-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:

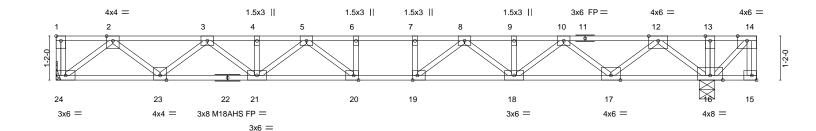
except end verticals.

6-0-0 oc bracing: 17-18,16-17.

1-5-3 0-10-4 0-1-8

Scale = 1:30.5

17r5-3 18-6-7



		17-3-11					0-1-8 1-1-4
Plate Offsets (	Plate Offsets (X,Y) [1:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge]						
LOADING (ps	) <b>SPACING-</b> 2-0-0 <b>CSI</b> .	DE	FL. in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 40.	Plate Grip DOL 1.00 TC	0.67 Ver	ert(LL) -0.26 1	9-20 >803	480	MT20	244/190
TCDL 10.	Lumber DOL 1.00 BC	0.83 Ver	ert(CT) -0.34	20 >615	360	M18AHS	186/179
BCLL 0.	Rep Stress Incr NO WB	0.56 Hor	orz(CT) 0.06	16 n/a	n/a		
BCDL 5	· · · · · · · · · · · · · · · · · · ·	-S	, ,			Weight: 98 lb	FT = 20%F, 11%E

BOT CHORD

17-3-11

LUMBER-**BRACING-**TOP CHORD

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=Mechanical, 16=0-4-15

Max Grav 24=919(LC 3), 16=2562(LC 1)

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

TOP CHORD 2-3=-1914/0, 3-4=-3151/0, 4-5=-3151/0, 5-6=-3650/0, 6-7=-3650/0, 7-8=-3650/0,

8-9=-2977/193, 9-10=-2977/193, 10-12=-1610/775, 12-13=0/1525, 13-14=0/1524

BOT CHORD 23-24=0/1144, 21-23=0/2651, 20-21=0/3496, 19-20=0/3650, 18-19=0/3390,

17-18=-464/2411 16-17=-1117/782

 $2 - 24 = -1435/0, \ 2 - 23 = 0/1002, \ 3 - 23 = -960/0, \ 3 - 21 = 0/638, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185, \ 12 - 16 = -1582/0, \ 12 - 17 = 0/1185,$ WFBS

 $10 - 17 = -1148/0, \ 10 - 18 = 0/831, \ 8 - 18 = -641/0, \ 8 - 19 = -34/803, \ 5 - 21 = -440/33, \ 5 - 20 = -345/492, \ 6 - 10 = -10/10$ 

7-19=-351/0, 14-16=-2087/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 18-4-15, and 700 lb down at 18-4-15 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: 15-24=-10, 1-14=-100

Concentrated Loads (lb)

Vert: 14=-1400(F=-700, B=-700)



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Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					173190353
J0525-2413	F07	Floor	5	1	
					Job Reference (optional)

1-3-0

3x6 =

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4x6 =

1-0-12 1-0-12 0-1-8 1-6-8

3x10 =

16<sub>г</sub>2-0

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

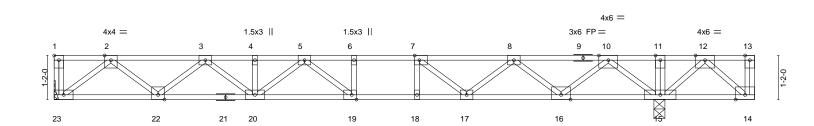
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

18-6-7

Scale = 1:30.5

4x6 =



1.5x3 ||

		16-0-8		0-1-8 2-4-7	
Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [7:0-1-8,Edge], [19:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.70	Vert(LL) -0.21 19-20 >926 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.28 19-20 >686 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.54	Horz(CT) 0.05 15 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S	,	Weight: 97 lb FT = 20%F, 11%E	

**BRACING-**TOP CHORD

BOT CHORD

16-0-8

LUMBER-

4x4 =

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=Mechanical, 15=0-3-8

Max Grav 23=841(LC 3), 15=1960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 13-14=-747/0, 2-3=-1718/0, 3-4=-2771/0, 4-5=-2771/0, 5-6=-3013/126, 6-7=-3013/126,

3x6 FP =

3x6 =

7-8=-2533/482, 8-10=-1374/1079, 10-11=0/1863, 11-12=0/1863 22-23=0/1042, 20-22=0/2368, 19-20=0/3016, 18-19=-126/3013, 17-18=-126/3013,

BOT CHORD 16-17=-768/2101. 15-16=-1428/614. 14-15=-855/0

10-15=-1532/0, 10-16=0/1123, 8-16=-1076/0, 8-17=0/766, 7-17=-979/0, 7-18=-48/289,

2-23=-1307/0, 2-22=0/881, 3-22=-845/0, 3-20=-30/516, 5-20=-312/118, 5-19=-518/328,

12-14=0/1139, 12-15=-1340/0

### 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.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 14-23=-10, 1-13=-100

Concentrated Loads (lb) Vert: 13=-700

036322 minimin

May 5,2025



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Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					I73190354
J0525-2413	F08	FLOOR	4	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:03 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 H<sup>0</sup>-3-8 ⊢ 1-3-0 2-0-12



0-1-8 Scale = 1:33.0

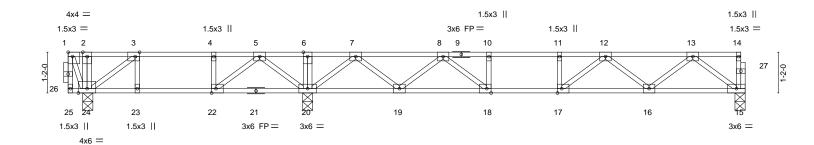




Plate Off	ate Offsets (X,Y) [1:Edge,0-1-8], [3:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge]										
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.07 16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.10 16-17	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01 15	n/a	n/a		
BCDL	5.0	Code IRC2021/TF	PI2014	Matri	x-S					Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

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

BOT CHORD

WFBS 2x4 SP No.3(flat) **BRACING-**

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) 24=0-3-8, 20=0-3-8, 15=0-3-8

Max Grav 24=1476(LC 3), 20=954(LC 4), 15=497(LC 11)

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

1-2=0/624, 2-3=0/625, 3-4=-112/565, 4-5=-112/565, 5-6=0/856, 6-7=0/856, 7-8=-650/222, 8-10=-1339/0, 10-11=-1339/0, 11-12=-1339/0, 12-13=-953/0

BOT CHORD 23-24=-565/112, 22-23=-565/112, 20-22=-623/0, 19-20=-390/218, 18-19=-57/1070,

17-18=0/1339. 16-17=0/1255. 15-16=0/611

WFBS 3-24=-455/0, 5-20=-477/0, 5-22=0/349, 7-20=-931/0, 7-19=0/602, 8-19=-604/0,

 $13\text{-}15\text{--}765/0,\ 13\text{-}16\text{=}0/445,\ 12\text{-}16\text{=-}393/0,\ 8\text{-}18\text{=}0/489,\ 1\text{-}24\text{=-}1313/0}$ 

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 15-25=-8, 1-14=-80

Concentrated Loads (lb) Vert: 1=-1152



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Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					173190355
J0525-2413	F09	FLOOR	3	1	
					Job Reference (optional)

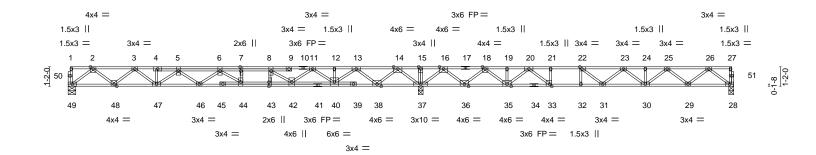
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:04 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

1-3-0

1-6-12

1-8-4 0-1-8 Scale = 1:69.2



	21-2-4 21-2-4		40-0-0 18-9-12					
Plate Offsets (X,Y)	[7:0-3-0,Edge], [22:0-1-8,Edge], [33:0-1	-8,Edge], [43:0-3-0,0-0-0]				10-9-12		
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 0.81 BC 0.99 WB 0.65 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.28 44-46 -0.36 44-46 0.05 28	I/defl >898 >697 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 224 lb	<b>GRIP</b> 244/190 FT = 20%F. 11%E

LUMBER-TOP CHORD 2x4 SP No 1(flat)

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

**BRACING-**TOP CHORD

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

**BOT CHORD** 

(size) 49=0-5-8, 28=0-3-8, 37=0-3-8

Max Grav 49=802(LC 3), 28=697(LC 4), 37=2123(LC 1)

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

TOP CHORD 2-3=-1712/0, 3-4=-2879/0, 4-5=-2884/0, 5-6=-3609/0, 6-7=-3733/0, 7-8=-3733/0,

8-11=-3019/180, 11-12=-1746/671, 12-13=-1746/671, 13-14=0/1410, 14-15=0/3526, 15-16=0/3526. 16-18=0/1573. 18-19=-1399/931. 19-20=-1399/931. 20-21=-2506/283.

 $21\text{-}22\text{-}-2506/283,\ 22\text{-}23\text{-}-2646/29,\ 23\text{-}24\text{-}-2343/0,\ 24\text{-}25\text{-}-2343/0,\ 25\text{-}26\text{-}-1451/0}$  $48 - 49 = 0/1009,\ 47 - 48 = 0/2390,\ 46 - 47 = 0/3429,\ 44 - 46 = 0/3824,\ 43 - 44 = 0/3733,\ 42 - 43 = 0/3733,\ 42 - 43 = 0/3733,\ 43 - 44 = 0/3733,\ 44 - 46 = 0/3824,\ 43 - 44 = 0/3733,\ 44 - 46 = 0/3824,\ 44 - 46 = 0$  $40 - 42 = -412/2441,\ 38 - 40 = -985/888,\ 37 - 38 = -2153/0,\ 36 - 37 = -2257/0,\ 35 - 36 = -1240/746,$ 

33-35=-651/1950, 32-33=-283/2506, 31-32=-283/2506, 30-31=0/2649, 29-30=0/2001,

28-29=0/872

WEBS 2-49=-1264/0, 2-48=0/915, 3-48=-883/0, 3-47=0/624, 14-37=-1723/0, 14-38=0/1369,

13-38=-1339/0, 13-40=0/1142, 11-40=-943/0, 11-42=0/794, 8-42=-1103/0, 5-47=-686/0, 6-46=-273/86, 6-44=-581/128, 8-43=0/336, 26-28=-1092/0, 26-29=0/754, 25-29=-715/0,

25-30=-42/436, 16-37=-1592/0, 16-36=0/1244, 18-36=-1193/0, 18-35=0/959,  $20 - 35 = -839/0, \ 20 - 33 = 0/1051, \ 23 - 30 = -391/37, \ 23 - 31 = -273/23, \ 22 - 31 = 0/574,$ 

22-32=-307/0, 21-33=-406/0

### 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) Required 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.



May 5,2025

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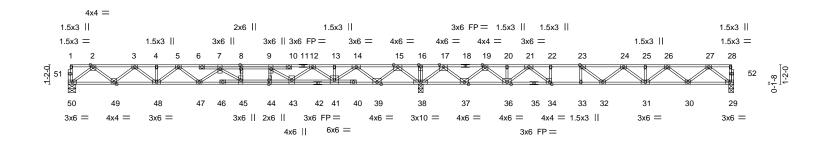


Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
J0525-2413	F10	Floor	4	1	173190356
30323-2413	1 10	1 1001	-	'	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:05 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

1-3-0 1-6-12 1-8-4 0-1-8 Scale = 1:69.2



ŀ	21-2-4 21-2-4					40-0-0						
		21-2-4		<u>'</u>				18-9-12		<u>·</u>		
Plate Off	sets (X,Y)	[8:0-3-0,Edge], [23:0-1-8,Edge],	[34:0-1-8,Edge], [44:0-3-0,0	-0-0]								
LOADIN	G (psf)	SPACING- 1-7-3	CSI.	DEF	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL 1.00	TC 0.82	Vert(	L) -0.29	45-47	>874	480	MT20	244/190		
TCDL	10.0	Lumber DOL 1.00	BC 1.00	Vert(	CT) -0.37	45-47	>677	360				
BCLL	0.0	Rep Stress Incr YES	WB 0.65	Horz	CT) 0.05	29	n/a	n/a				
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S						Weight: 220 lb	FT = 20%F, 11%E		

LUMBER-2x4 SP No 1(flat)

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

WFBS 2x4 SP No.3(flat)

**BRACING-**TOP CHORD

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 50=0-5-8, 29=0-3-8, 38=0-3-8

Max Grav 50=801(LC 3), 29=697(LC 4), 38=2126(LC 1)

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

TOP CHORD 2-3=-1709/0, 3-4=-2876/0, 4-5=-2876/0, 5-7=-3468/0, 7-8=-3724/0, 8-9=-3724/0,

9-12=-3001/183, 12-13=-1726/673, 13-14=-1726/673, 14-15=0/1426, 15-16=0/3549, 16-17=0/3549 17-19=0/1596 19-20=-1397/950 20-21=-1397/950 21-22=-2504/297 22-23=-2504/297, 23-24=-2645/40, 24-25=-2342/0, 25-26=-2342/0, 26-27=-1451/0

49-50=0/1008, 48-49=0/2384, 47-48=0/3227, 45-47=0/3745, 44-45=0/3724, 43-44=0/3724,

 $41-43=-414/2421,\ 39-41=-988/866,\ 38-39=-2174/0,\ 37-38=-2278/0,\ 36-37=-1261/743,$ 34-36=-668/1948, 33-34=-297/2504, 32-33=-297/2504, 31-32=0/2648, 30-31=0/2000,

29-30=0/872

2-50=-1262/0, 2-49=0/912, 3-49=-879/0, 3-48=0/628, 5-48=-448/0, 5-47=-22/308, 7-47=-357/77, 7-45=-525/166, 15-38=-1725/0, 15-39=0/1370, 14-39=-1341/0,

14-41=0/1144, 12-41=-944/0, 12-43=0/796, 9-43=-1110/0, 9-44=0/342, 27-29=-1092/0,

27-30=0/754, 26-30=-715/0, 26-31=-44/436, 17-38=-1595/0, 17-37=0/1246, 19-37=-1195/0. 19-36=0/961. 21-36=-842/0. 21-34=0/1054. 22-34=-407/0.

24-31=-391/39, 24-32=-275/20, 23-32=0/577, 23-33=-309/0

### NOTES-

WEBS

**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) Required 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.



May 5,2025

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/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)



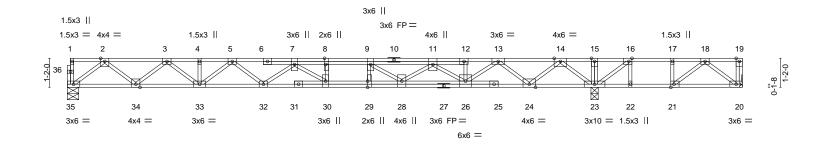
Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
J0525-2413	F11	FLOOR	2	1	I73190357
00020 2 110		. 2001.	-		Joh Reference (ontional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:06 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

HI 1-3-0 1-6-12 1-6-12

Scale = 1:46.3



	2-9-0	5-1-8	5-6-12	5-1-8	2-7-8	5-11-4
Plate Off	fsets (X,Y)	[8:0-3-0,Edge], [16:0-1-8,Edge	[21:0-1-8,Edge], [29:0-3-0,0-0-0]			
LOADIN	G (nsf)	SPACING- 1-7	3 CSI.	DEFL. in (loc)	/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.0		( /	872 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.0	0 BC 0.88	Vert(CT) -0.40 30-32 >	634 360	
BCLL	0.0	Rep Stress Incr YE	S WB 0.59	Horz(CT) 0.06 23	n/a n/a	
BCDL	5.0	Code IRC2021/TPI201	Matrix-S			Weight: 160 lb FT = 20%F, 11%

13-5-4

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) \*Except\* 10-19: 2x4 SP 2400F 2.0E(flat)

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

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

2-9-0

TOP CHORD

18-6-12

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

21-2-4

except end verticals.

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

REACTIONS. (size) 20=Mechanical, 35=0-5-8, 23=0-3-8

Max Uplift 20=-238(LC 3)

Max Grav 20=187(LC 4), 35=841(LC 10), 23=1561(LC 1)

7-10-8

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

TOP CHORD 2-3=-1810/0, 3-4=-3079/0, 4-5=-3079/0, 5-7=-3763/0, 7-8=-4225/0, 8-9=-4225/0, 9-11=-3712/0, 11-12=-2360/0, 12-13=-2355/0, 13-14=-610/0, 14-15=0/1770,

15-16=0/1770, 16-17=-98/938, 17-18=-98/938

 $34 - 35 = 0/1061,\ 33 - 34 = 0/2535,\ 32 - 33 = 0/3476,\ 30 - 32 = 0/4119,\ 29 - 30 = 0/4225,\ 28 - 29 = 0$ 

26-28=0/3228, 24-26=0/1541, 23-24=-461/0, 22-23=-938/98, 21-22=-938/98,

20-21=-340/173

2-35=-1329/0, 14-23=-1649/0, 2-34=0/975, 14-24=0/1233, 3-34=-943/0, 13-24=-1228/0,

3-33=0/695, 13-26=0/1023, 5-33=-507/0, 11-26=-1065/0, 5-32=0/370, 11-28=0/651,

7-32=-456/0, 9-28=-788/0, 7-30=-203/481, 18-20=-217/427, 16-23=-1260/0,

18-21=-763/0, 17-21=0/343

### NOTES-

**WEBS** 

**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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 20.
- 6) Required 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.



27-1-8

May 5,2025

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)



Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					173190358
J0525-2413	F12	Floor	2	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:07 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

20-10-0

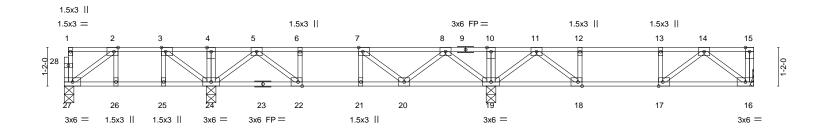
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

6-0-0 oc bracing: 19-20,18-19.





H		4-5-4			8-5-8		-				7-11-4	
Plate Offsets (X,Y) [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,Edge]					dge]							
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	0.29	Vert(LL)	-0.03 16	5-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.04 16	6-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code IRC2021/T	PI2014	Matrix	<-S						Weight: 106 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

12-10-12

LUMBER-TOP CHORD

2x4 SP No 1(flat)

4-5-4

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. All bearings 0-3-8 except (jt=length) 16=Mechanical.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 27 except 24=551(LC 16), 19=792(LC 11), 16=324(LC 5)

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

TOP CHORD 5-6=-636/0, 6-7=-636/0, 7-8=-491/0, 8-10=0/394, 10-11=0/394, 11-12=-542/0,

12-13=-542/0, 13-14=-542/0

22-24=0/365, 21-22=0/636, 20-21=0/636, 19-20=-11/298, 18-19=-102/259, 17-18=0/542. BOT CHORD

16-17=0/351

WFBS 3-24=-292/0, 8-19=-603/0, 5-24=-475/0, 8-20=0/293, 5-22=0/346, 7-20=-253/0,

11-19=-528/0, 11-18=0/440, 14-16=-440/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



May 5,2025



Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek	
						173190359
J0525-2413	F13-GR	Floor Girder	1	1		
					Job Reference (optional)	

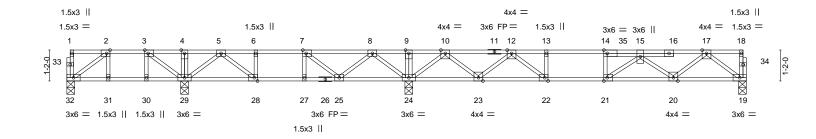
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:07 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8



0-1-8 Scale = 1:43.4



ı	4	-5-4		12-10-12					25-7-8		
	4	-5-4		8-5-8	I				12-8-12		'
Plate Off	fsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8	,Edge], [7:0-1-8	,Edge], [14:0-1-8,Edge	dge], [21:0-1-8,Ed	e], [22:0-1-8,	Edge],	[28:0-1-8	,Edge]		
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEF	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 1.00	Vert(	LL) -0.15	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.89	Vert(	CT) -0.20	20-21	>739	360		
BCLL	0.0	Rep Stress Incr	NO	WB 0.43	Horz	(CT) 0.03	19	n/a	n/a		
BCDL	5.0	Code IRC2021/	ΓPI2014	Matrix-S						Weight: 132 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

WFBS

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

2x4 SP No.3(flat)

### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32 except 29=673(LC 3), 24=1425(LC 11), 19=795(LC 5)

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

TOP CHORD 5-6=-666/93, 6-7=-666/93, 7-8=-422/258, 8-9=0/947, 9-10=0/947, 10-12=-1051/0,

12-13=-2275/0, 13-14=-2275/0, 14-15=-2290/0, 15-17=-1674/0

BOT CHORD 28-29=-72/389, 27-28=-93/666, 25-27=-93/666, 24-25=-409/149, 23-24=-50/408, 22-23=0/1711, 21-22=0/2275, 20-21=0/2322, 19-20=0/976

 $3-29 = -414/0,\ 8-24 = -825/0,\ 5-29 = -558/0,\ 8-25 = 0/445,\ 5-28 = -27/360,\ 7-25 = -449/0,$ 

 $10 - 24 = -1319/0,\ 10 - 23 = 0/876,\ 12 - 23 = -909/0,\ 17 - 19 = -1221/0,\ 17 - 20 = 0/899,\ 15 - 20 = -831/0,$ 

15-21=-275/96, 12-22=0/899, 13-22=-410/0

### 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) 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down at 20-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 19-32=-10, 1-18=-100 Concentrated Loads (lb)

Vert: 35=-251(F)



May 5,2025



Job Truss Truss Type Qty Ply Lot 39 Duncan's Creek 173190360 J0525-2413 F14-GR Floor Girder Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:08 2025 Page 1 Comtech, Inc. ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-8-0 3 1.5x3 || 1 3x4 || Scale = 1:8.5 6 3x4 =3x6 =5 3x6 =3-10-0 3-10-0 Plate Offsets (X,Y)--[1:Edge,0-1-8], [6:0-1-8,0-1-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 40.0 Plate Grip DOL 1.00 TC 0.38 Vert(LL) 0.00 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.14 Vert(CT) -0.02 >999 360 4-5 WB 0.10 **BCLL** 0.0 Rep Stress Incr NO Horz(CT) 0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

BCDL 5.0

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 5=Mechanical, 4=0-3-8 Max Grav 5=331(LC 1), 4=523(LC 1)

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

Code IRC2021/TPI2014

TOP CHORD 3-4=-312/0 **BOT CHORD** 4-5=0/357

**WEBS** 2-4=-391/0. 2-5=-413/0

### 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) 261 lb down at 1-4-12, and 283 lb down at 3-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

Matrix-P

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=-8, 1-3=-80

Concentrated Loads (lb) Vert: 3=-283(F) 7=-261(F)



Weight: 22 lb

Structural wood sheathing directly applied or 3-10-0 oc purlins,

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

except end verticals.

FT = 20%F, 11%E

May 5,2025

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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Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					173190361
J0525-2413	FKW1	Floor Supported Gable	1	1	
					Inh Reference (ontional)

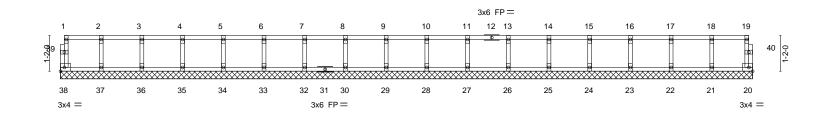
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:08 2025 Page 1

0-11-8

ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-8

Scale = 1:37.7



	22-8-0									
LOADING (	(psf) 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.06	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 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	20	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014	Matrix-R						Weight: 94 lb	FT = 20%F, 11%E

22-8-0

LUMBER-**BRACING-**

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

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

REACTIONS. All bearings 22-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24,

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.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 39 Duncan's Creek
					173190362
J0525-2413	FKW2	Floor Supported Gable	1	1	
					Joh Reference (ontional)

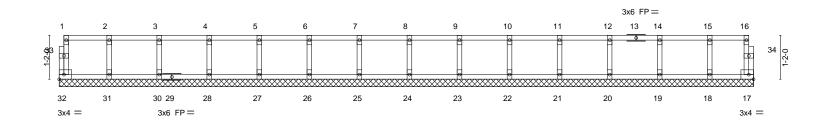
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:08 2025 Page 1

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

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

Scale = 1:30.7



	18-6-0									
	).Ó	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.06	DEFL. Vert(LL)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190	
TCDL 10	0.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a	999			
BCLL 0	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 17	n/a	n/a			
BCDL 5	5.0	Code IRC2021/TPI2014	Matrix-R					Weight: 77 lb	FT = 20%F, 11%E	

18-6-0

LUMBER-**BRACING-**

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

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 18-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

**OTHERS** 

- 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 39 Duncan's Creek
					173190363
J0525-2413	FKW3	Floor Supported Gable	1	1	
					Lob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri May 2 07:17:09 2025 Page 1 ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0118

Scale = 1:20.8

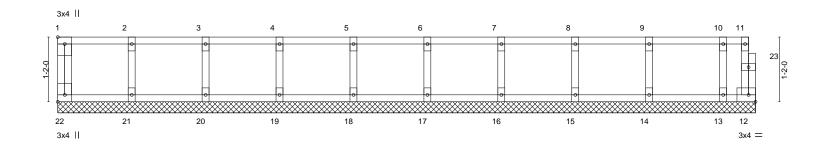


Plate Offsets (X,Y) [1:Edge,0-1-8], [22:Edge,0-1-8]								
LOADING (psf) TCLL 40.0	SPACING- 1-7-3 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.05	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         n/a         -         n/a         999         MT20         244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999					
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.03 Matrix-R	Horz(CT) 0.00 12 n/a n/a Weight: 55 lb FT = 20%F	<sup>-</sup> , 11%E				

**BRACING-**

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

2x4 SP No 1(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 12-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

### NOTES-

LUMBER-

TOP 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 39 Duncan's Creek
					173190364
J0525-2413	FKW4	GABLE	1	1	
					Inh Reference (ontional)

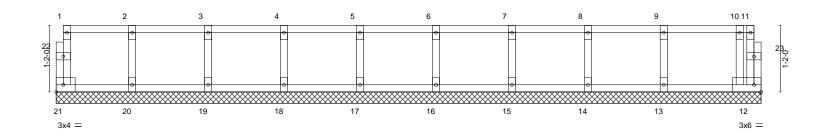
0118

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ID:6XJu5EDhIOALdYBK4rF8nKyOFED-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0<sub>1</sub>1<sub>3</sub>8

Scale = 1:20.2



1-4-0 1-4-0	2-8-0 1-4-0	4-0-0 1-4-0	5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0	9-4-0 1-4-0	10-8-0 1-4-0	12-0-0 1-4-0 1-4-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/	1.00 YES	CSI. TC 0.07 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT	in (loc n/a - n/a - ) 0.00 1:	n/a 999 n/a 999	PLATES MT20 Weight: 54 lb	<b>GRIP</b> 244/190  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, 2x4 SP No.1(flat) BOT CHORD except end verticals.

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

REACTIONS. All bearings 12-4-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

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





818 Soundside Road Edenton, NC 27932

### 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

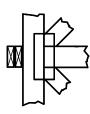
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

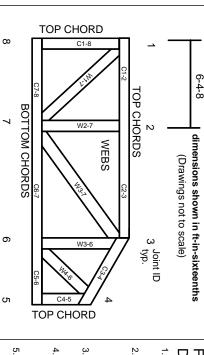
### Industry Standards: ANSI/TPI1: National I

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.
- 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.
- 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.