

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.

2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed 19.2"oc or 16"oc.

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise

2. All interior wall dimensions are to face of stud unless noted otherwise

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

Roof Area = 2569.6 sq.ft.
Ridge Line = 82.18 ft.
Hip Line = 0 ft.
Horiz. OH = 185.9 ft.
Raked OH = 202.68 ft.
Decking = 88 sheets

All Walls Shown Are Considered Load Bearing

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



Connector Information					Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	6	NA	16d/3-1/2"	16d/3-1/2"
	JUS24	USP	14	NA	10d/3"	10d/3"



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

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

Signature____

Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

	(B	ASED O	N TABLES	5 R502.	.5(1) & (t	o))					
NU	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										

	CITY / CO.	CITY / CO. Lillington / Harnett
*	ADDRESS	292 Bluestone Drive
ie - Face	MODEL	Roof
	DATE REV . 7/22/25	7/22/25
	DRAWN BY	DRAWN BY Johnnie Baggett
709)	SALES REP.	SALES REP. House Account

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

Site Name

250762 - A (J0725-37



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0725-3709

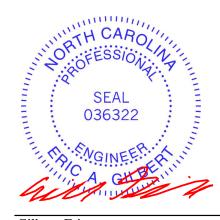
Lot 80 Duncans Creek

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: I75099558 thru I75099592

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

North Carolina COA: C-0844



July 23,2025

Gilbert, Eric

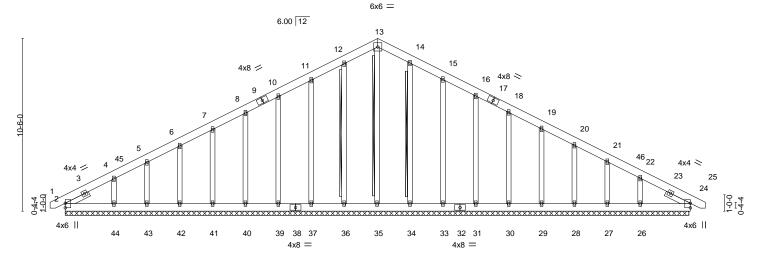
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 80 Duncans Creek 175099558 J0725-3709 **GABLE** A01GE Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:29 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 19-0-0 38-0-0 19-0-0 19-0-0

Scale = 1:70.0



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.05 BC 0.03 WB 0.13 Matrix-S	Vert(CT)	in (loc) 0.00 24 0.00 24 0.01 24	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 334 lb	GRIP 244/190 FT = 20%
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38-0-0 38-0-0

LUMBER-

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

SLIDER Left 2x4 SP No.2 1-7-0, Right 2x4 SP No.2 1-7-9 **BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

2x4 SPF No.2 - 13-35, 12-36, 14-34 T-Brace:

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 37-11-0.

(lb) -Max Horz 2=-200(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except

44=-165(LC 12), 26=-148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29,

28, 27, 26, 24

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

 $2\text{-}4\text{--}258/92,\ 10\text{-}11\text{--}108/267,\ 11\text{--}12\text{--}130/330,\ 12\text{--}13\text{--}144/370,\ 13\text{--}14\text{--}144/369,}$ TOP CHORD

14-15=-131/332, 15-16=-109/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 38-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except (jt=lb) 44=165, 26=148.
- 9) Non Standard bearing condition. Review required.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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



Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099559 J0725-3709 FINK 2 A02 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:30 2025 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

19-0-0

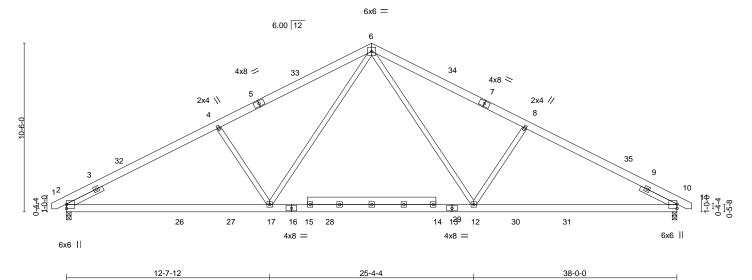
9-6-6

ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 28-6-6 38-0-0 9-5-10

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:71.7



	12-7-12	12-8-7	12-7-12	
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 0.30 Vert(LL)	-0.19 12-17 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70 Vert(CT)	-0.29 12-17 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33 Horz(CT	r) 0.07 10 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS Wind(LL	0.06 12-17 >999 240	Weight: 271 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

9-5-10 9-5-10

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

Max Horz 2=129(LC 11)

Max Uplift 2=-101(LC 12), 10=-101(LC 13) Max Grav 2=1855(LC 2), 10=1855(LC 2)

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

TOP CHORD 2-4=-2935/548 4-6=-2729/570 6-8=-2729/570 8-10=-2935/548

BOT CHORD 2-17=-355/2606, 12-17=-128/1774, 10-12=-353/2554

WFBS 4-17=-511/302, 6-17=-122/1133, 6-12=-122/1133, 8-12=-511/302

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 10=101.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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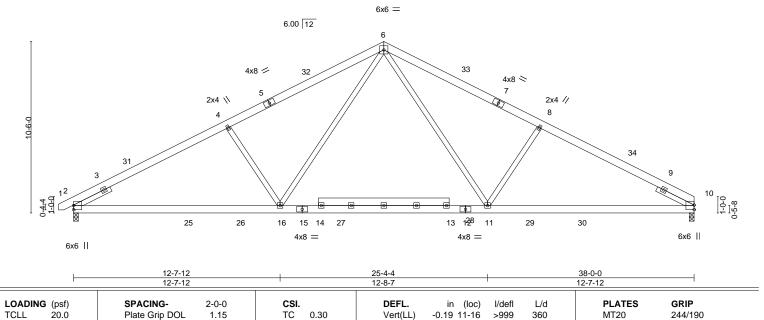
Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099560 J0725-3709 FINK 3 A02A Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:30 2025 Page 1 Comtech, Inc.

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9-6-6

38-0-0 9-5-10

Scale = 1:70.5



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

-0.29 11-16

0.06 11-16

10

0.07

>999

>999

n/a

Rigid ceiling directly applied.

240

n/a

Structural wood sheathing directly applied.

Weight: 269 lb

FT = 20%

240

LUMBER-

TCDL

BCLL

BCDL

WFBS

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

0.0

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=0-3-8

Max Horz 2=130(LC 9)

Max Uplift 2=-101(LC 12), 10=-91(LC 13) Max Grav 2=1855(LC 2), 10=1817(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

9-5-10

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

TOP CHORD 2-4=-2936/548 4-6=-2730/570 6-8=-2731/576 8-10=-2937/554

BOT CHORD 2-16=-382/2602, 11-16=-155/1770, 10-11=-368/2556

WFBS 4-16=-511/302, 6-16=-121/1132, 6-11=-122/1135, 8-11=-512/302

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 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.

1.15

YES

вс

WB

Matrix-AS

0.70

0.33

- 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) 10 except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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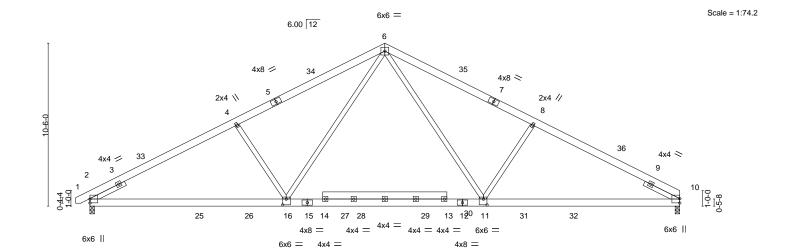
28-6-6

38-0-0

9-5-10

19-0-0

9-6-6



	12-7-12	25-4-4	38-0-0
	12-7-12	12-8-7	12-7-12
Plate Offsets (X,Y)	[11:0-2-12,0-4-8], [16:0-2-12,0-4-8]		

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 0.33	Vert(LL) -0.19 11-16 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.38 11-16 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	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: 269 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=130(LC 9) Max Uplift 2=-1(LC 12) Max Grav 2=1955(LC 2), 10=1917(LC 2)

9-5-10 9-5-10

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

TOP CHORD 2-4=-3148/336, 4-6=-2943/357, 6-8=-2945/362, 8-10=-3149/342

BOT CHORD 2-16=-198/2786, 11-16=-20/1905, 10-11=-184/2740

WEBS 4-16=-494/319, 6-16=-13/1241, 6-11=-13/1243, 8-11=-495/319

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 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, 19-0-0 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 23,2025

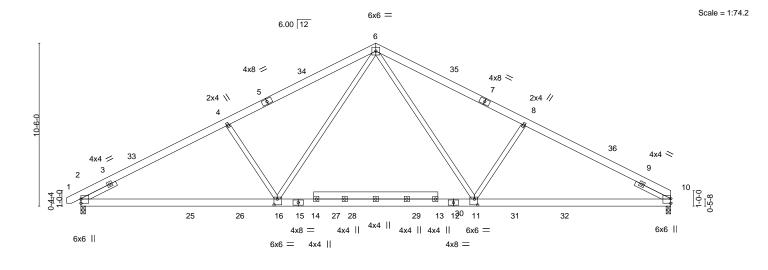
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9-6-6



	12-7-12	25-4-4	38-0-0
	12-7-12	12-8-7	12-7-12
Plate Offsets (X,Y)	[11:0-2-8,0-4-8], [16:0-2-8,0-4-8]		

		/////-			
LOADIN	G (psf)	SPACING- 2-1-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.20 11-16 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.40 11-16 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.34	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: 269 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=-5(LC 12)

Max Grav 2=2033(LC 2), 10=1992(LC 2)

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

TOP CHORD 2-4=-3276/361, 4-6=-3062/382, 6-8=-3063/388, 8-10=-3278/367

BOT CHORD 2-16=-217/2902, 11-16=-22/1970, 10-11=-202/2855

WEBS 4-16=-528/339, 6-16=-25/1303, 6-11=-25/1305, 8-11=-530/339

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 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, 19-0-0 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.



9-5-10

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

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

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

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28-6-6

38-0-0

9-5-10

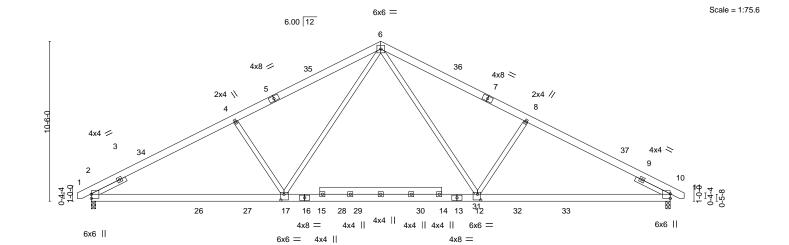
Structural wood sheathing directly applied or 3-10-0 oc purlins.

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

38-11-0 0-11-0

19-0-0

9-6-6



	12-7-12	25-4-4	38-0-0
	12-7-12	12-8-7	12-7-12
Plate Offsets (X,Y)	[12:0-2-8,0-4-8], [17:0-2-8,0-4-8]		

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-1-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.64 BC 0.90 WB 0.34	DEFL. in (loc) l/defl L/d Vert(LL) -0.20 12-17 >999 360 Vert(CT) -0.40 12-17 >999 240 Horz(CT) 0.08 10 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.06 12-17 >999 240	Weight: 271 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=-134(LC 10) Max Uplift 2=-5(LC 12), 10=-5(LC 13) Max Grav 2=2032(LC 2), 10=2032(LC 2)

9-5-10 9-5-10

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

TOP CHORD 2-4=-3276/361, 4-6=-3061/382, 6-8=-3061/382, 8-10=-3276/361

BOT CHORD $2\text{-}17\text{=-}189/2907,\ 12\text{-}17\text{=-}0/1974,\ 10\text{-}12\text{=-}186/2853}$

WEBS $4\text{-}17\text{=-}528/339,\ 6\text{-}17\text{=-}25/1303,\ 6\text{-}12\text{=-}25/1303,\ 8\text{-}12\text{=-}528/339}$

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 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, 19-0-0 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.



July 23,2025

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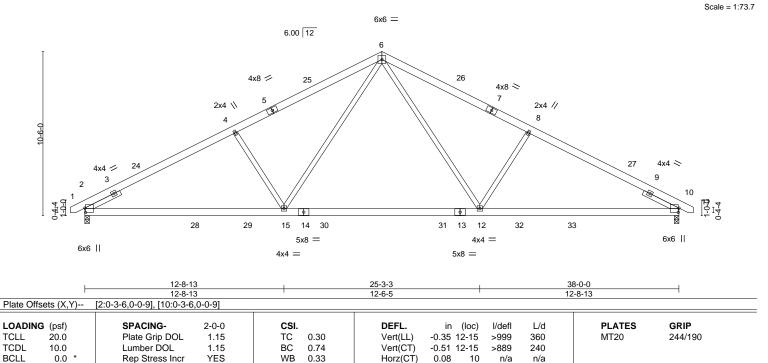
Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099564 J0725-3709 COMMON 2 A05 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:33 2025 Page 1 Comtech, Inc.

28-4-8

19-0-0

ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

38-0-0



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.06 12-15

>999

Rigid ceiling directly applied.

240

Structural wood sheathing directly applied.

Weight: 252 lb

FT = 20%

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=0-3-8

Max Horz 2=-129(LC 10)

Max Uplift 2=-101(LC 12), 10=-101(LC 13) Max Grav 2=1868(LC 2), 10=1868(LC 2)

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

TOP CHORD 2-4=-2973/543, 4-6=-2771/569, 6-8=-2771/569, 8-10=-2973/543

Code IRC2021/TPI2014

BOT CHORD 2-15=-349/2635, 12-15=-124/1808, 10-12=-347/2583

WEBS 6-12=-125/1155, 8-12=-508/304, 6-15=-125/1155, 4-15=-508/304

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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 10=101.
- 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.



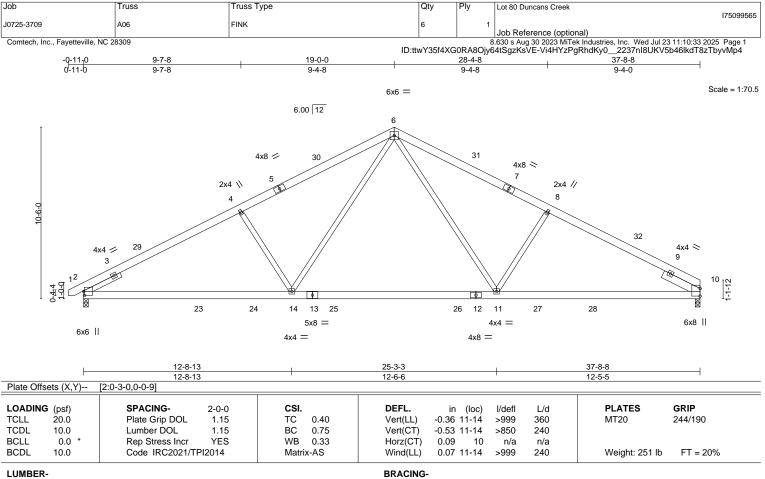
July 23,2025

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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 WEBS SLIDER Left 2x4 SP No.2 2-6-0, Right 2x6 SP No.1 2-6-0

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=132(LC 9)

Max Uplift 2=-101(LC 12), 10=-89(LC 13) Max Grav 2=1854(LC 2), 10=1819(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-2947/539, 4-6=-2745/565, 6-8=-2695/563, 8-10=-2888/536

BOT CHORD 2-14=-378/2606, 11-14=-153/1777, 10-11=-354/2494

WEBS 4-14=-508/304, 6-14=-126/1161, 6-11=-114/1084, 8-11=-474/297

- 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 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 37-8-8 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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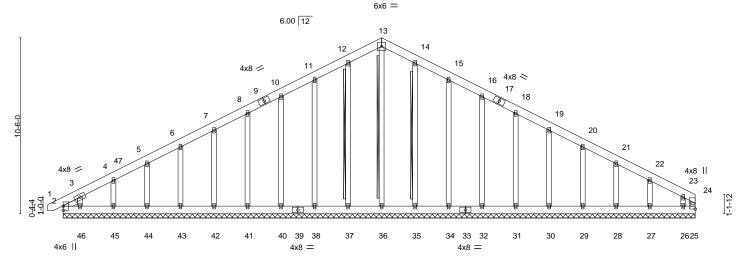


Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099566 J0725-3709 A07GE COMMON SUPPORTED GAB Job Reference (optional)

Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1 Comtech, Inc.

ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 19-0-0 37-8-8 19-0-0 18-8-8

Scale = 1:68.7



37-8-8 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 0.09 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 25 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 329 lb FT = 20%

37-8-8

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. OTHERS 2x4 SP No 2 WFBS T-Brace: 2x4 SPF No.2 - 13-36, 12-37, 14-35

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.

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

Brace must cover 90% of web length.

REACTIONS. All bearings 37-8-8.

Max Horz 2=217(LC 12) (lb) -

Left 2x4 SP No.2 0-11-10

Max Uplift All uplift 100 lb or less at joint(s) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29,

28, 27 except 46=-172(LC 12), 26=-236(LC 13)

All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, Max Grav 30, 29, 28, 27, 26 except 25=256(LC 13)

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

TOP CHORD 2-3=-338/113, 10-11=-102/283, 11-12=-125/346, 12-13=-138/383, 13-14=-138/383,

14-15=-125/346, 15-16=-102/283

SLIDER

- 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 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 37-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=172, 26=236.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 23,2025

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		7,1		′	175099567			
J0725-3709	B01GE	COMMON SUPPORTED GAB	1	1				
					Job Reference (optional)			
Comtech, Inc, Fayettev	ic, Fayetteville, NC - 28314,			8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1				
•	ID:tt			ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f				
₁ -0-11-0 ₁	10)-4-0			20-8-0			
0-11-0	10-4-0		10-4-0					

Qty

Plv

Lot 80 Duncans Creek

Scale = 1:35.9

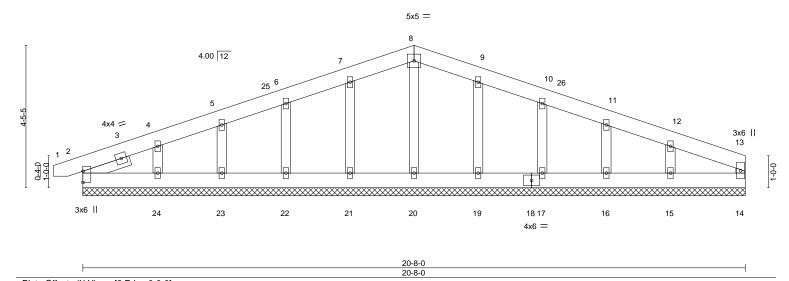


Plate Offsets (x, Y) [2:Edge,0-0-0]											
LOADING (ps	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	Plate Grip DC	DL 1.15	TC 0	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.	Lumber DOL	1.15	BC 0	.01	Vert(CT)	0.00	1	n/r	120		
BCLL 0.	* Rep Stress In	cr YES	WB 0	.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.	Code IRC202	21/TPI2014	Matrix-S	3						Weight: 132 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WFBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2

SLIDER Left 2x4 SP No.2 1-6-6

REACTIONS. All bearings 20-8-0.

(lb) - Max Horz 2=84(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 21, 22, 23, 24, 19, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 14, 2, 20, 21, 22, 23, 24, 19, 17, 16, 15

Truss Type

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

NOTES-

Job

Truss

- 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) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 10-4-0, Corner(3R) 10-4-0 to 14-8-13, Exterior(2N) 14-8-13 to 20-6-4 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 $\label{lem:consult_qualified} \textbf{Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.}$
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 14, 2, 21, 22, 23, 24, 19, 17, 16, 15.



July 23,2025

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

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

except end verticals.



Job	Job Truss			Qty	Ply	Lot 80 Duncans Creek		
						175099568		
J0725-3709	B02	KINGPOST		3	1			
						Job Reference (optional)		
Comtech, Inc, Fay	Comtech, Inc. Fayetteville, NC - 28314,				3.630 s Se	o 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1		
-	, , , , , , , , , , , , , , , , , , , ,				RA80jy64t	SgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f		
₁ -0-11-0 ₁				20-8-0				
0-11-0	11-0			10-4-0				

Scale = 1:35.6

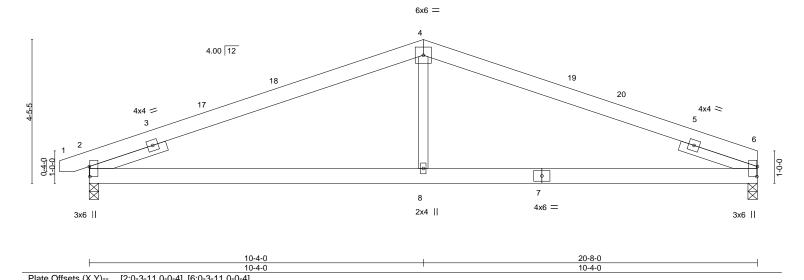


Plate Oils	sels (X,Y)	[2:0-3-11,0-0-4], [6:0-3-11,0-0-4]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.06 8-11 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.11 8-11 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.02 2 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.04 8-15 >999 240	Weight: 115 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) 6=0-3-8, 2=0-3-8 Max Horz 2=47(LC 12) Max Uplift 6=-64(LC 9), 2=-89(LC 8) Max Grav 6=826(LC 1), 2=869(LC 1)

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

TOP CHORD 2-4=-1321/469, 4-6=-1308/474 **BOT CHORD** 2-8=-342/1219, 6-8=-342/1219

WEBS 4-8=0/418

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 10-4-0, Exterior(2R) 10-4-0 to 14-8-13, Interior(1) 14-8-13 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 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.



July 23,2025

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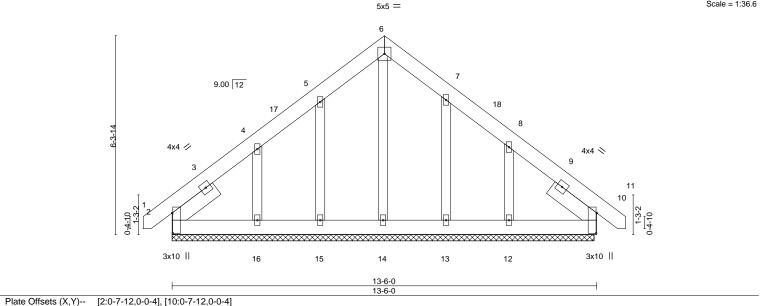


Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099569 J0725-3709 C01GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 6-9-0 13-6-0

14-5-0 6-9-0 Scale = 1:36.6

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

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



	/ /- /- //									
LOADING (psf)		2-0-0	CSI.	DEFL.	in (/	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip D	OL 1.15	TC 0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DO		BC 0.03	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0	* Rep Stress	Incr YES	WB 0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2	021/TPI2014	Matrix-S						Weight: 112 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**2x6 SP No 1 TOP CHORD

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

SLIDER Left 2x6 SP No.1 1-8-14, Right 2x6 SP No.1 1-9-8

REACTIONS. All bearings 13-5-0.

(lb) -Max Horz 2=-173(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-185(LC 12), 12=-181(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=252(LC 19), 12=251(LC 20)

6-9-0

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

WEBS 4-16=-187/283, 8-12=-186/287

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 6-9-0, Corner(3R) 6-9-0 to 11-1-13, Exterior(2N) 11-1-13 to 14-3-8 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.
- 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, 10, 15, 13 except (jt=lb) 16=185, 12=181.
- 9) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099570 J0725-3709 D01GE COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-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]

Flate Offsets (A, 1) [2:0-7-12,0-0-4], [10:0-7-12,0-0-4]												
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	0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI	2014	Matri	x-S						Weight: 105 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 1-8-9, Right 2x6 SP No.1 1-8-9

REACTIONS. All bearings 12-7-0.

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

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-172(LC 12), 12=-168(LC 13)

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

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

WEBS 4-16=-169/272, 8-12=-173/276

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 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.
- 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, 10, 15, 13 except (jt=lb) 16=172, 12=168.
- 9) Non Standard bearing condition. Review required.



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 Truss Type Qty Ply Lot 80 Duncans Creek 175099571 J0725-3709 D02 COMMON 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 12-8-0 6-4-0 Scale = 1:36.4 5x5 = 9.00 12 4x4 / 4x4 <> 18 3 8 2x4 || 3x10 || 3x10 || 6-4-0 12-8-0 6-4-0 6-4-0

Plate Offsets (X,Y)-- [2:0-5-0,0-0-4], [6:0-7-12,0-0-4]

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.15	TC	0.11	Vert(LL)	-0.01	8-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.11	Vert(CT)	-0.02	8-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI20)14	Matri	x-AS	Wind(LL)	0.01	8-11	>999	240	Weight: 92 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 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=128(LC 11) Max Uplift 2=-32(LC 12), 6=-32(LC 13) Max Grav 2=554(LC 1), 6=554(LC 1)

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

TOP CHORD 2-4=-468/216, 4-6=-468/216 **BOT CHORD** 2-8=-0/344, 6-8=-0/344

WEBS 4-8=0/259

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 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099572 J0725-3709 D03-GR COMMON GIRDER 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-4-0 Scale = 1:36.4 6x8 || 2 9.00 12 3 12 5 13 14 4 15 4x12 // 4x12 \\ 6x12 || 6x12 || 4-3-8 8-4-8 12-8-0 4-1-0 SPACING-DEFL. GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defl L/d **PLATES**

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

-0.05

-0.09

0.02

0.03

4-5

4-5

4-5

3

>999

>999

>999

n/a

360

240 n/a MT20

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

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

Weight: 214 lb

244/190

FT = 20%

BCDL 10.0

TCLL

TCDL

BCLL

LUMBER-TOP CHORD 2x8 SP No.1 BOT CHORD 2x8 SP 2400F 2.0E 2x4 SP No.2 WFBS WEDGE

20.0

0.0

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8 Max Horz 1=-114(LC 27)

Max Uplift 1=-354(LC 8), 3=-294(LC 9) Max Grav 1=6394(LC 2), 3=5288(LC 2)

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

1.15

1.15

NO

TC

вс

WB

Matrix-MS

0.14

0.31

0.47

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

TOP CHORD 1-2=-6103/376, 2-3=-6100/375

BOT CHORD 1-5=-249/4771, 4-5=-171/3332, 3-4=-231/4765

WEBS 2-4=-210/3815, 2-5=-210/3832

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1801 lb down and 107 lb up at 0-9-4, 1799 lb down and 109 lb up at 2-9-4, 1799 lb down and 109 lb up at 4-9-4, 1799 lb down and 109 lb up at 6-9-4, and 1799 lb down and 109 lb up at 8-9-4, and 1799 lb down and 109 lb up at 10-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 6-9=-20

JORTH

July 23,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
J0725-3709	D03-GR	COMMON GIRDER	1		175099572
00/20 0/00	200 OK	OCIVILITIES OF THE PROPERTY OF	'	2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 2 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard Concentrated Loads (lb)

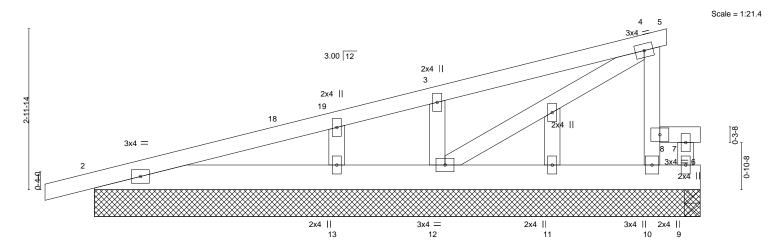
Vert: 4=-1488(B) 8=-1490(B) 12=-1488(B) 13=-1488(B) 14=-1488(B) 15=-1488(B)





Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099573 J0725-3709 **GABLE** M01GE Job Reference (optional) Comtech, Inc.

Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 6-4-6 10-7-8 0-7-8



		6-4-6 6-4-6	10-7-8 4-3-2				11-3-0	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.22 BC 0.18 WB 0.06	Vert(CT)	in (loc) -0.01 17 -0.01 17 -0.00 8	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL)	0.01 17	>999	240	Weight: 60 lb	FT = 20%

LUMBER-**BRACING-**

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

except end verticals. Except: 2-9: 2x6 SP No.1 6-0-0 oc bracing: 4-8

WFBS BOT CHORD 2x4 SP No.2 Rigid ceiling directly applied or 6-0-0 oc bracing.

OTHERS 2x4 SP No.2

(lb) -Max Horz 2=138(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 13, 9 except 12=-112(LC 8), 8=-166(LC 8) Max Grav All reactions 250 lb or less at joint(s) 10, 2, 6, 11, 9, 9 except 12=251(LC 1), 8=470(LC 1),

13=260(LC 1)

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

All bearings 11-3-0 except (jt=length) 9=0-3-8, 9=0-3-8.

WFBS 3-12=-293/318

NOTES-

REACTIONS.

- 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-7-8 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 13, 9 except (jt=lb) 12=112, 8=166.
- 9) 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: 1-4=-60, 4-5=-20, 2-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 8=-400



July 23,2025



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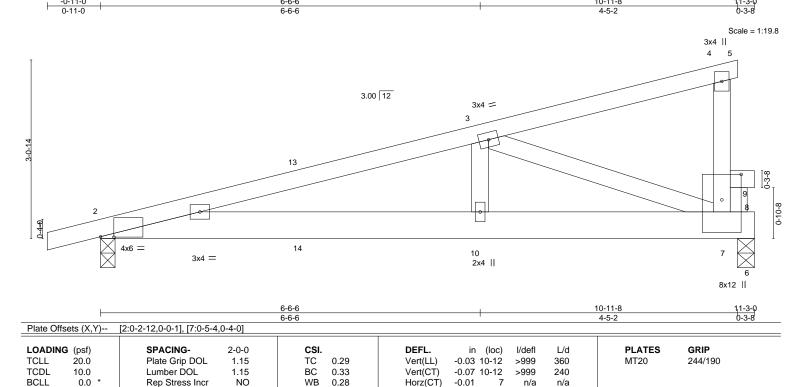


		,	,	,	175099574
J0725-3709	M02	Monopitch	3	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8	.630 s Sep	26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1
		ID:ttw	Y35f4XG0F	RA8Ojy64t	SgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
0.11.0		6 6 6			10 11 9

Qty

Ply

Lot 80 Duncans Creek



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.08 10-12

>999

Rigid ceiling directly applied.

240

Weight: 57 lb

Structural wood sheathing directly applied, except end verticals.

FT = 20%

LUMBER-

BCDL

Job

TOP CHORD 2x4 SP No.1

10.0

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

2-6: 2x6 SP No.1

WEBS 2x4 SP No.2

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

Max Horz 2=101(LC 8)

Truss

Truss Type

Max Uplift 2=-196(LC 8), 7=-277(LC 8)

Max Grav 2=498(LC 1), 7=738(LC 1)

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

Code IRC2021/TPI2014

TOP CHORD 2-3=-876/1155, 7-9=-414/518 **BOT CHORD** 2-10=-1216/828, 7-10=-1216/828 **WEBS** 3-10=-447/258, 3-7=-832/1228

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-11-8 zone; 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) 2=196, 7=277.
- 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.
- 6) 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: 1-4=-60, 4-5=-20, 2-6=-20, 8-9=-20

Concentrated Loads (lb) Vert: 9=-300

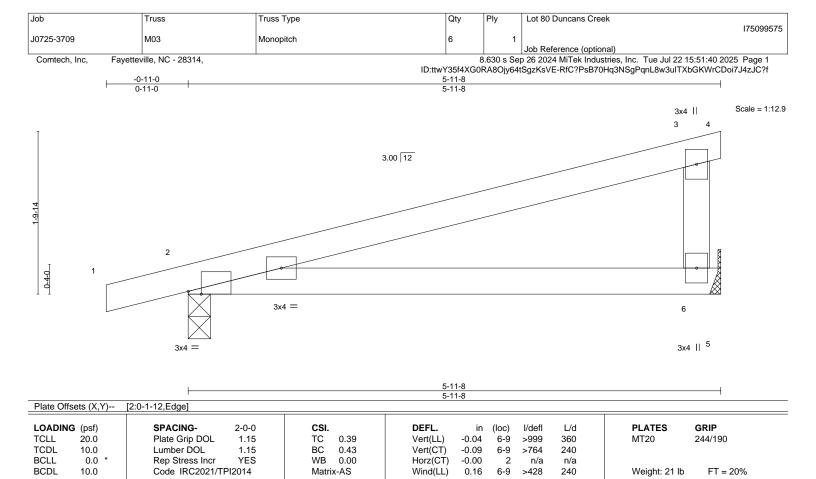


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.2

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

Max Horz 2=59(LC 8)

Max Uplift 6=-92(LC 8), 2=-117(LC 8) Max Grav 6=234(LC 1), 2=287(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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=117.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

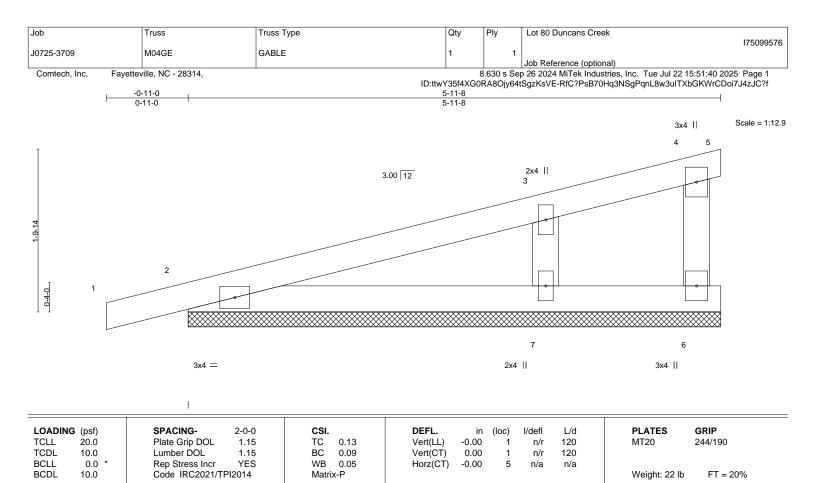
Rigid ceiling directly applied.



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

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LUMBER-

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

2x4 SP No.2 WFBS OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins,

except end verticals

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

REACTIONS. All bearings 5-11-8.

(lb) -Max Horz 2=83(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 2 except 7=-105(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2 except 7=324(LC 1)

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

WEBS 3-7=-241/304

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 2 except (jt=lb) 7=105.



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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 80 Duncans Creek
J0725-3709	M05GE	GABLE	1	1	175099577
					Job Reference (optional)
Comtech Inc Favette	ville NC - 28314		8 630 e Sar	26 2024 MiTek Industries Inc. Tue Jul 22 15:51:40 2025 Page 1	

Fayetteville, NC - 28314, ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 12-0-0

7 8 3.00 12 3 13 12 10 11 3x4 =3x4 ||

LOADIN	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	0.12	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2	2014	Matri	x-S						Weight: 51 lb	FT = 20%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 12-0-0. (lb) - Max Horz 2=154(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 2, 10, 11, 12, 13

Max Grav All reactions 250 lb or less at joint(s) 8, 9, 2, 10, 11, 12 except 13=314(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 12-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 8, 9, 2, 10, 11, 12, 13.



3x4Spale = 1:21.2

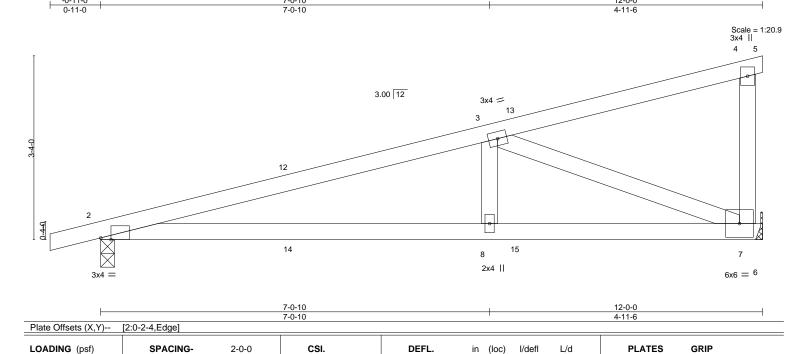
July 23,2025

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						175099578	
	J0725-3709	M06	Monopitch	8	1		
						Job Reference (optional)	
	Comtech, Inc, F	Fayetteville, NC - 28314,		8	3.630 s Sep	26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1	
				ID:ttwY35f4XG0	RA80jy64t	SgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f	
-0.11.0 7.0.10			7.0.10			12.0.0	

Qtv

Plv

Lot 80 Duncans Creek



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.19 8-11

-0.14

-0.02

8-11

>723

>989

n/a

Rigid ceiling directly applied.

240

240

n/a

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 51 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

Job

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

WFBS 2x4 SP No.2 REACTIONS.

20.0

10.0

0.0

10.0

(size) 2=0-3-0, 7=Mechanical Max Horz 2=108(LC 8)

Truss

Truss Type

Max Uplift 2=-203(LC 8), 7=-193(LC 8) Max Grav 2=526(LC 1), 7=478(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-953/1153

BOT CHORD 2-8=-1236/901, 7-8=-1236/901 WFBS 3-8=-430/266, 3-7=-948/1291

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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

Matrix-AS

0.41

0.40

0.41

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

1.15

1.15

YES

- 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) 2=203, 7=193.
- 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.

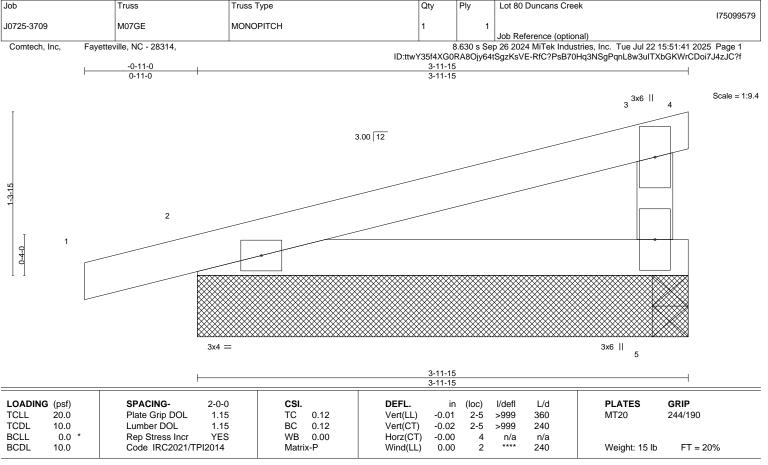


July 23,2025

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LUMBER-TOP CHORD

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

BOT CHORD 2x4 SP No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins,

except end verticals

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

REACTIONS. All bearings 3-11-15.

Max Horz 2=61(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2 except 4=-272(LC 1), 5=-246(LC 12) Max Grav All reactions 250 lb or less at joint(s) 4, 2 except 5=451(LC 1), 5=451(LC 1)

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

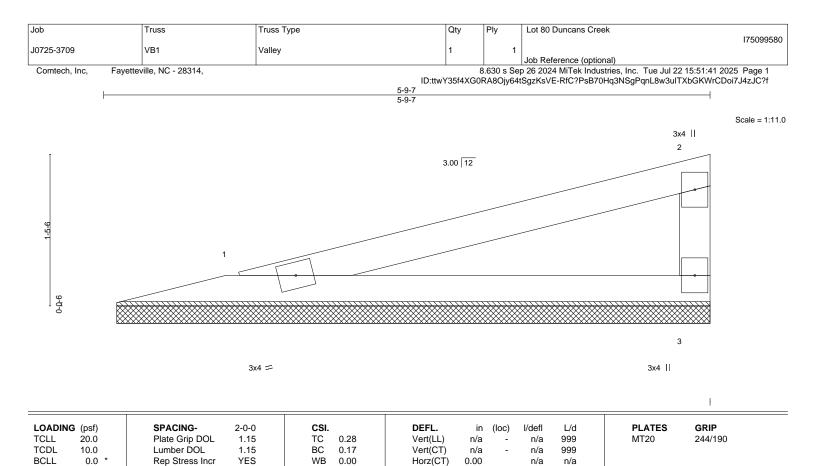
TOP CHORD 3-5=-428/525

NOTES-

- $1) \ Wind: ASCE 7-16; \ Vult=130mph \ (3-second \ gust) \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=15ft; \ Cat. \ II; \ Exp. \ C; \ Enclosed; \ Particle Part$ MWFRS (envelope) gable end zone 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
- 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) 2 except (jt=lb) 4=272, 5=246.







LUMBER-

REACTIONS.

BCDL

WFBS

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

10.0

2x4 SP No.2

Max Horz 1=36(LC 8) Max Uplift 1=-14(LC 8), 3=-23(LC 8) Max Grav 1=174(LC 1), 3=174(LC 1)

(size) 1=5-7-15, 3=5-7-15

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins,

Weight: 17 lb

FT = 20%

except end verticals.

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

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

Code IRC2021/TPI2014

NOTES-

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

Matrix-P

- 2) Gable requires continuous bottom chord bearing.
- 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) 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 80 Duncans Creek 175099581 J0725-3709 VB2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:6.6 4x6 = 3.00 12 7-0-6 3

3x4 =

Plate Offsets (X,Y)--[2:1-2-3,0-1-6] 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) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a n/a 999 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-P Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD 2x4 SP No.2 WFBS

(size) 1=2-11-15, 3=2-11-15

Max Horz 1=15(LC 8)

Max Uplift 1=-5(LC 8), 3=-9(LC 8) Max Grav 1=67(LC 1), 3=67(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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) 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 3-1-7 oc purlins,

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

except end verticals.

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

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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099582 J0725-3709 VC1 **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-3-15 9-3-15 . 18-7-14 Scale = 1:42.1 4x4 = 5 9.00 12 3 19 18 3x4 / 3x4 <> 17 16 15 14 13 12 11 10 3x4 =18-7-14 18-7-14 [6:0-0-0 0-0-0] [7:0-0-0 0-0-0] [8:0-0-0 0-0-0

Plate Offsets (A, f)	[6.0-0-0,0-0-0], [7.0-0-0,0-0-0], [6.0-0-0,0-0-0]

LOADIN	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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2021/Ti	PI2014	Matri	x-S						Weight: 101 lb	FT = 20%

LUMBER-TOP CHORD BOT CHORD

OTHERS

2x4 SP No 1 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 18-7-14.

(lb) -Max Horz 1=-200(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 16, 11 except 15=-104(LC 12), 17=-146(LC 12), 13=-102(LC 13),

10=-146(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 13, 11 except 17=268(LC 19), 10=268(LC 20)

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) gable end zone and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 9-3-15, Exterior(2R) 9-3-15 to 13-8-12 , Interior(1) 13-8-12 to 18-2-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 16, 11 except (jt=lb) 15=104, 17=146, 13=102, 10=146.





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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099583 J0725-3709 VC2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:43 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-15 15-11-14 7-11-15 Scale = 1:36.3 4x4 = 3 9.00 12 2x4 II 2x4 || 2 10 3x4 / 8 11 7 12 6 2x4 || 2x4 || 2x4 || 0-<u>0-8</u> 0-0-8 15-11-14 15-11-6 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.15 Vert(CT) n/a n/a 999

LUMBER-

BCLL

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.00

5

n/a

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

Weight: 67 lb

FT = 20%

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

n/a

REACTIONS. All bearings 15-10-14.

Max Horz 1=-136(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-125(LC 12), 6=-125(LC 13)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=404(LC 19), 8=470(LC 19), 6=469(LC 20)

WB

Matrix-S

0.09

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

Rep Stress Incr

Code IRC2021/TPI2014

WEBS 2-8=-299/245, 4-6=-298/245

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 7-11-15, Exterior(2R) 7-11-15 to 12-4-12, Interior(1) 12-4-12 to 15-6-9 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) 8=125, 6=125,





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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099584 J0725-3709 VC3 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:44 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-7-15 6-7-15 13-3-14 Scale = 1:30.2 4x4 = 3 9.00 12 2x4 || 2x4 || 2 5 8 6 3x4 / 3x4 💸 2x4 || 2x4 || 2x4 || 13-3-14 13-3-6 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 0.13 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 0.06 Horz(CT) 0.00 5 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD BOT CHORD

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

Weight: 54 lb

FT = 20%

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

REACTIONS. All bearings 13-2-14.

Max Horz 1=-112(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-109(LC 12), 6=-109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=329(LC 19), 6=328(LC 20)

Matrix-S

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

Code IRC2021/TPI2014

WEBS 2-8=-260/251, 4-6=-260/251

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 6-7-15, Exterior(2R) 6-7-15 to 11-0-12, Interior(1) 11-0-12 to 12-10-9 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 (jt=lb) 8=109, 6=109,





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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099585 J0725-3709 VC4 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:44 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-3-15 5-3-15 10-7-14 Scale = 1:24.8 4x4 = 9.00 12 3x4 ╲ 3x4 // 2x4 || 0-0-8 0-0-8 10-7-14 10-7-6 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 0.25 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.18 Vert(CT) n/a n/a 999 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 39 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 **OTHERS**

REACTIONS. (size) 1=10-6-14, 3=10-6-14, 4=10-6-14

Max Horz 1=88(LC 9)

Max Uplift 1=-24(LC 12), 3=-32(LC 13)

Max Grav 1=202(LC 1), 3=202(LC 1), 4=379(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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-3-15, Exterior(2R) 5-3-15 to 9-8-12, Interior(1) 9-8-12 to 10-2-9 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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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099586 J0725-3709 VC5 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:44 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-11-15 Scale = 1:20.7 4x4 =2 9.00 12 9-0-0 9-0-0 3x4 / 3x4 ╲ 2x4 || 7-11-14 7-11-6 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 0.19 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.09 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: 29 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.2 **OTHERS**

BOT CHORD

REACTIONS. (size) 1=7-10-14, 3=7-10-14, 4=7-10-14 Max Horz 1=-64(LC 8)

Max Uplift 1=-25(LC 12), 3=-31(LC 13)

Max Grav 1=160(LC 1), 3=160(LC 1), 4=249(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 80 Duncans Creek 175099587 J0725-3709 VC6 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:45 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-7-15 2-7-15 Scale = 1:14.4 4x4 = 2 9.00 12 3 9-0-0 9-0-0 2x4 || 3x4 ≫ 3x4 // 0-0-8 0-0-8 5-3-14 SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.08 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: 18 lb FT = 20% LUMBER-**BRACING-**TOP CHORD

BOT CHORD

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

REACTIONS.

(size) 1=5-2-14, 3=5-2-14, 4=5-2-14

Max Horz 1=-40(LC 8)

Max Uplift 1=-15(LC 12), 3=-19(LC 13)

Max Grav 1=100(LC 1), 3=100(LC 1), 4=156(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 5-3-14 oc purlins.

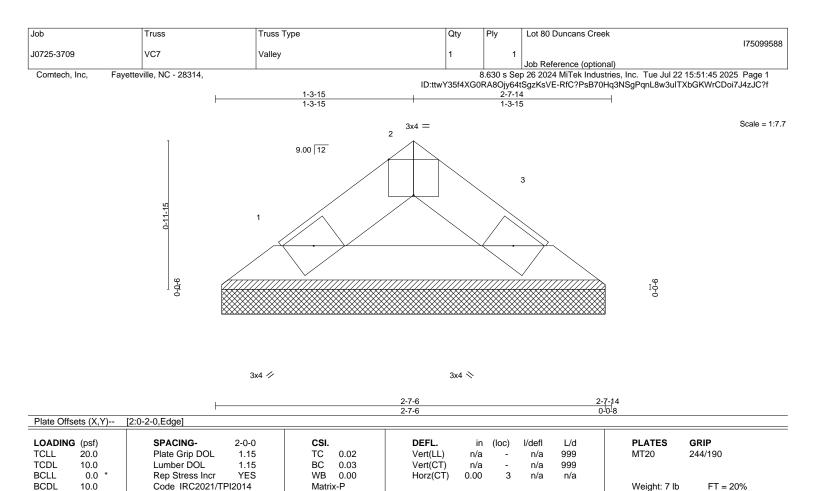
Rigid ceiling directly applied or 10-0-0 oc bracing.

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LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-7-14 oc purlins.

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

REACTIONS. (size) 1=2-6-14, 3=2-6-14

Max Horz 1=-16(LC 10)

Max Uplift 1=-3(LC 12), 3=-3(LC 13) Max Grav 1=71(LC 1), 3=71(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 80 Duncans Creek 175099589 J0725-3709 VD1 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:45 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-6-6 Scale = 1:24.5 4x4 = 2 6 9.00 12 3x4 <> 2x4 || 10-6-6 10-5-14 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 0.24 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=10-5-6, 3=10-5-6, 4=10-5-6

Max Horz 1=87(LC 9)

Max Uplift 1=-23(LC 12), 3=-32(LC 13)

Max Grav 1=199(LC 1), 3=199(LC 1), 4=374(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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-3-3, Exterior(2R) 5-3-3 to 9-8-0, Interior(1) 9-8-0 to 10-1-1 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, 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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175099590 J0725-3709 VD2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:46 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:20.4 4x4 =2 9.00 12 9-0-0 9-0-0 1 3x4 // 3x4 📏 2x4 || 7-10-6 7-9-14 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 0.19 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB 0.02 **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: 28 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

Qty

Ply

Lot 80 Duncans Creek

REACTIONS.

Job

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

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

Max Horz 1=-63(LC 10)

Truss

Truss Type

Max Uplift 1=-24(LC 12), 3=-30(LC 13)

Max Grav 1=157(LC 1), 3=157(LC 1), 4=245(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.

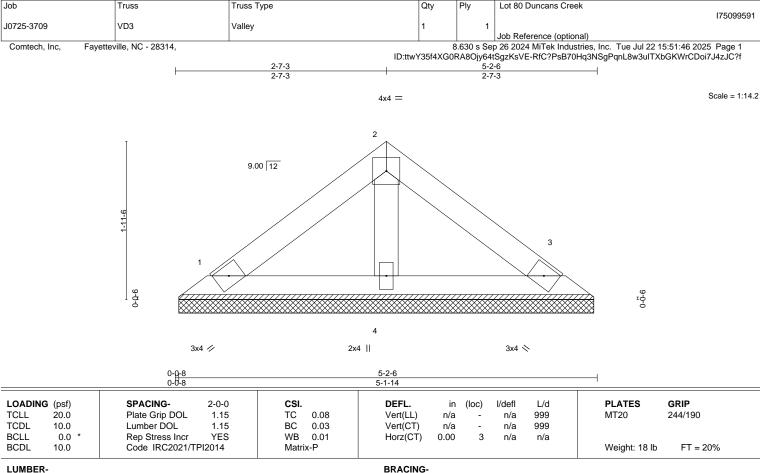


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 1=-39(LC 8)

Max Uplift 1=-15(LC 12), 3=-19(LC 13) Max Grav 1=97(LC 1), 3=97(LC 1), 4=151(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 5-2-6 oc purlins.

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

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Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099592 J0725-3709 VD4 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:47 2025 Page 1 Comtech, Inc. ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:7.5 3x4 9.00 12 3 9-0-0 9-0-C 3x4 × 3x4 // 2₇6₇6 0-0-8 2-5-14 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) n/a n/a 999 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

BRACING-TOP CHORD

Vert(CT)

Horz(CT)

n/a

0.00

BOT CHORD

Structural wood sheathing directly applied or 2-6-6 oc purlins.

Weight: 7 lb

FT = 20%

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

999

n/a

n/a

n/a

3

REACTIONS. (size) 1=2-5-6, 3=2-5-6

Max Horz 1=15(LC 9)

Max Uplift 1=-3(LC 12), 3=-3(LC 13) Max Grav 1=66(LC 1), 3=66(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

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

BC

WB

Matrix-P

0.02

0.00

- 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.

1.15

YES

- 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.



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

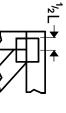
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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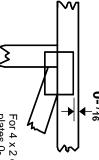


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

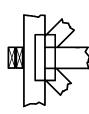
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



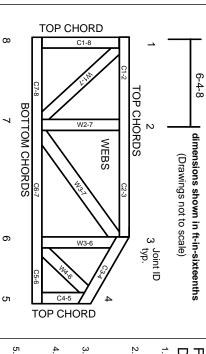
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

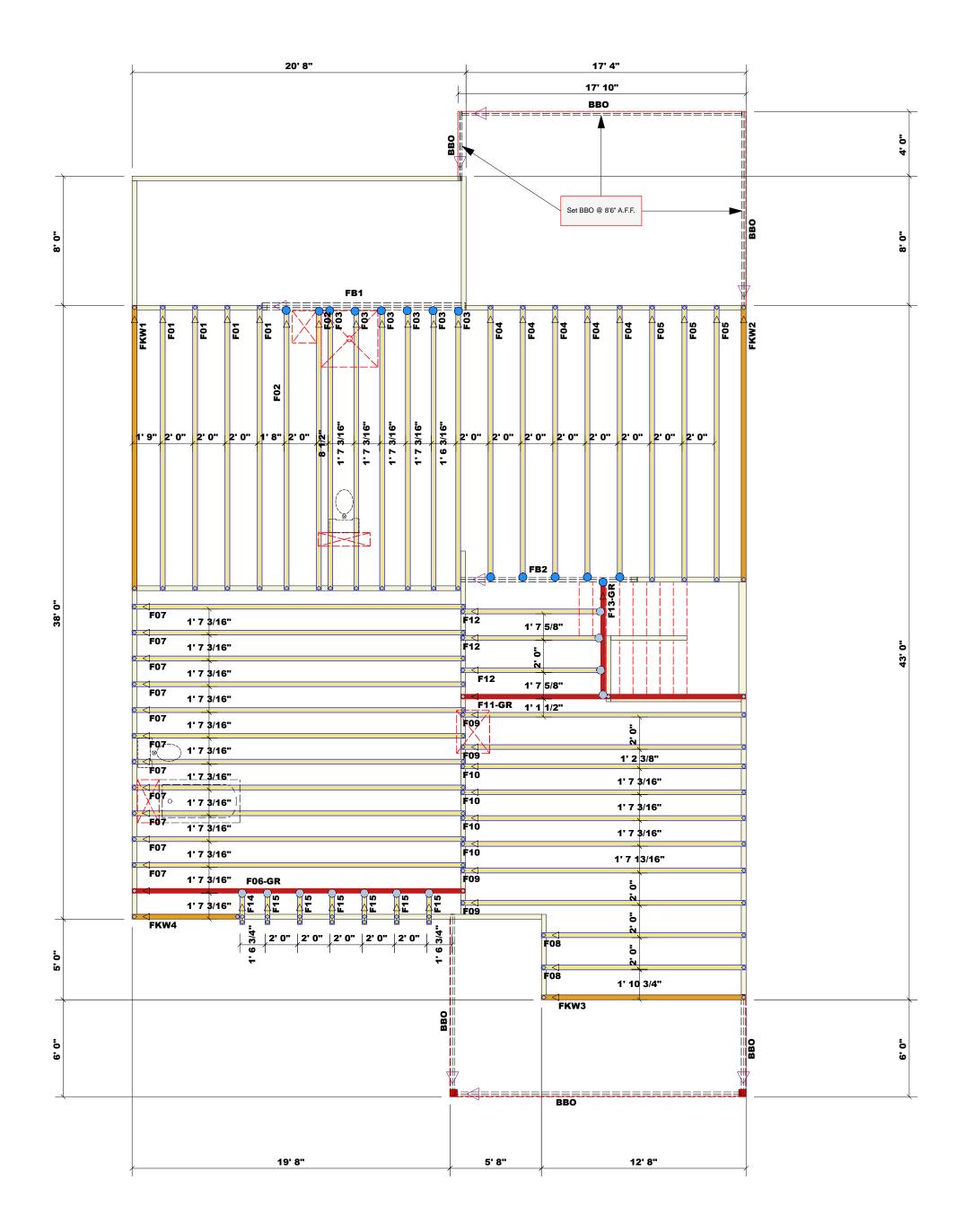
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed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

'n

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

œ

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



Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.

2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed

19.2"oc or 16"oc.

Dimension Notes 1. All exterior wall to wall dimensions are to face of sheathing 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
FB1	12' 7 1/2"	1-3/4"x 14" LVL Kerto-S	3	3
FB2	10' 11 1/4"	1-3/4"x 14" LVL Kerto-S	2	2
BBO	17' 4"	2x10 SPF No.2	2	2
BBO	12' 3 1/2"	2x10 SPF No.2	2	2
BBO	4' 3 1/2"	2x10 SPF No.2	2	2

	Conne	Nail Info	ormation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	14	NA	16d/3-1/2"	16d/3-1/2"
	MSH422	USP	11	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 lables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

	(B.	ASED (ON TABLES	5 R502.	5(1) & (l	o))	
NUM	MBER C	F JAC	K STUDS R HEADER/			A END OF	=
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR
1700	1		2550	1		3400	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	15300
s Creek	ADDRESS	292 Blueston Drive	9
rmhouse - Face	MODEL	Floor	
	DATE REV . 8/27/25	8/27/25	
	DRAWN BY	DRAWN BY Johnnie Baggett	
)725-3710)	SALES REP.	SALES REP. House Account	

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 (Reference Engineered Truss Drawing)

New Home Inc.

BUILDER

= Indicates Left End of Truss

Do NOT Erect Truss Backwards

JOB NAME



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0725-3710

Lot 80 Duncans 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: I75099820 thru I75099838

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

North Carolina COA: C-0844



July 23,2025

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 80 Duncans Creek
10705 0740	F04	FLOOD			175099820
J0725-3710	F01	FLOOR	4	1	Job Reference (optional)

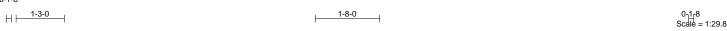
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

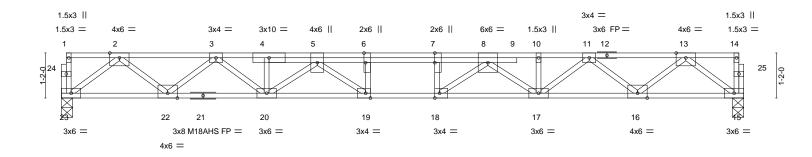
Structural wood sheathing directly applied or 6-0-0 oc purlins,

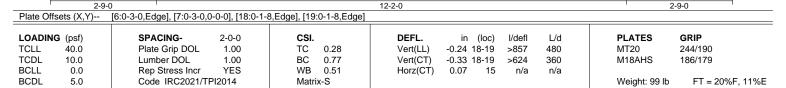
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8







BRACING-

TOP CHORD

BOT CHORD

14-11-0

LUMBER-

2-9-0

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

WFBS 2x4 SP No.3(flat)

REACTIONS.

(size) 23=0-3-8, 15=0-3-8 Max Grav 23=952(LC 1), 15=952(LC 1)

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

TOP CHORD 2-3=-2012/0, 3-4=-3343/0, 4-5=-3348/0, 5-6=-4200/0, 6-7=-4200/0, 7-8=-4200/0,

8-10=-3334/0, 10-11=-3331/0, 11-13=-2013/0 22-23=0/1195, 20-22=0/2796, 19-20=0/3916, 18-19=0/4200, 17-18=0/3884, 16-17=0/2798,

15-16=0/1194 WFBS

13-15=-1496/0, 2-23=-1496/0, 13-16=0/1066, 2-22=0/1064, 11-16=-1022/0, 3-22=-1021/0, 11-17=0/681, 3-20=0/699, 8-17=-689/0, 5-20=-714/0, 8-18=-38/695,

5-19=-71/673, 6-19=-355/38, 7-18=-369/17

NOTES-

BOT CHORD

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



17-8-0

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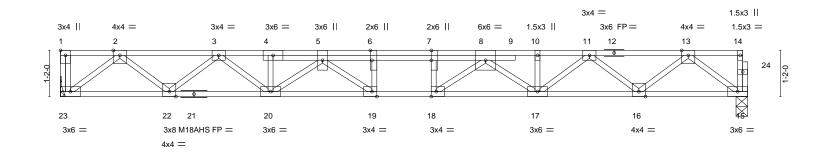
Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099821
J0725-3710	F02	FLOOR	2	1	
					Lob Reference (optional)

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-4-8

Scale = 1:29.1



2-9-0	<u> </u>		11-10-8	2-9-0	
Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [6:0-3-0,Edge], [7:0-3-0,0-0-0], [18:0-1-8,Edge], [19:0-1-8,Edge]				
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.27	DEFL. in (loc) I/defl L/d Vert(LL) -0.23 18-19 >897 480	PLATES GRIP MT20 244/190	
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.74 WB 0.50	Vert(CT) -0.31 18-19 >653 360 Horz(CT) 0.07 15 n/a n/a	M18AHS 186/179	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 98 lb FT = 20%F, 11%E	

14-7-8

LUMBER-TOP CHORD

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

2-9-0

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 10-0-0 oc bracing.

REACTIONS.

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

Max Grav 23=942(LC 1), 15=936(LC 1)

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

TOP CHORD 2-3=-1972/0, 3-4=-3264/0, 4-5=-3268/0, 5-6=-4069/0, 6-7=-4069/0, 7-8=-4069/0,

8-10=-3255/0, 10-11=-3252/0, 11-13=-1973/0

22-23=0/1175, 20-22=0/2737, 19-20=0/3812, 18-19=0/4069, 17-18=0/3781, 16-17=0/2739. BOT CHORD 15-16=0/1173

> 13-15=-1469/0, 2-23=-1474/0, 13-16=0/1041, 2-22=0/1038, 11-16=-997/0, 3-22=-995/0, $11-17=0/656,\ 3-20=0/673,\ 8-17=-660/0,\ 5-20=-684/0,\ 8-18=-52/637,\ 5-19=-84/615,$

6-19=-323/45, 7-18=-336/25

NOTES-

WFBS

- 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.



17-4-8

July 23,2025



Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099822
J0725-3710	F03	FLOOR	6	1	
			l		Job Reference (optional)

1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

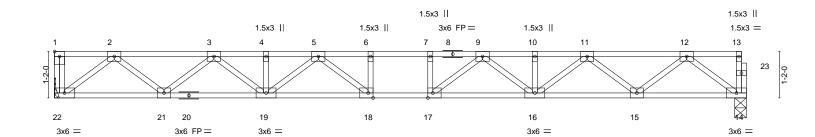
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-4-8

Scale = 1:28.9



	2-9-0				11-10-8				2	-9-0
Plate Off	sets (X,Y)	[1:Edge,0-1-8], [17:0-1-8	3,Edge], [18:0-1	-8,Edge]						
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 0.30	Vert(LL)	-0.20 17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.57	Vert(CT)	-0.28 17-18	>737	360		
BCLL	0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.05 14	n/a	n/a		
BCDL	5.0	Code IRC2021/T	PI2014	Matrix-S					Weight: 90 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

14-7-8

LUMBER-TOP CHORD

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

2-9-0

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=0-3-8 Max Grav 22=753(LC 1), 14=748(LC 1)

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

2-3=-1577/0, 3-4=-2610/0, 4-5=-2610/0, 5-6=-3071/0, 6-7=-3071/0, 7-9=-3071/0, TOP CHORD

9-10=-2610/0, 10-11=-2610/0, 11-12=-1577/0

BOT CHORD 21-22=0/939, 19-21=0/2188, 18-19=0/2910, 17-18=0/3071, 16-17=0/2910, 15-16=0/2188,

14-15=0/939

WFBS 12-14=-1175/0, 2-22=-1178/0, 12-15=0/830, 2-21=0/830, 11-15=-795/0, 3-21=-795/0,

 $11 - 16 = 0/539, \ 3 - 19 = 0/539, \ 9 - 16 = -383/0, \ 5 - 19 = -383/0, \ 9 - 17 = -83/439, \ 5 - 18 = -83/439$

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.



17-4-8



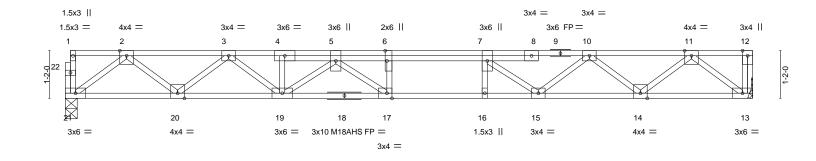
Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099823
J0725-3710	F04	FLOOR	5	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8



Scale = 1:28.2



	16-10-0			
Plate Offsets (X,Y)				
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 0.45	Vert(LL) -0.22 17 >896 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.76	Vert(CT) -0.31 17-19 >649 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.06 13 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 93 lb FT = 20%F, 11%E

16-10-0

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 10-0-0 oc bracing.

REACTIONS.

(size) 21=0-3-8, 13=Mechanical Max Grav 21=906(LC 1), 13=912(LC 1)

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

TOP CHORD 2-3=-1896/0, 3-4=-3119/0, 4-5=-3124/0, 5-6=-3730/0, 6-7=-3730/0, 7-10=-3141/0,

10-11=-1892/0

BOT CHORD 20-21=0/1134, 19-20=0/2628, 17-19=0/3629, 16-17=0/3730, 15-16=0/3730, 14-15=0/2605,

13-14=0/1142

WFBS 11-13=-1433/0, 11-14=0/976, 10-14=-928/0, 10-15=0/721, 7-15=-825/0, 2-21=-1420/0,

 $2-20=0/992,\ 3-20=-953/0,\ 3-19=0/626,\ 5-19=-636/0,\ 5-17=-236/559,\ 6-17=-291/109$

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.



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 80 Duncans Creek
J0725-3710	F05	FLOOR	2	1	175099824
30723-3710	F03	FLOOR	3	'	Job Reference (optional)

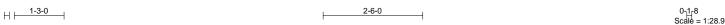
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

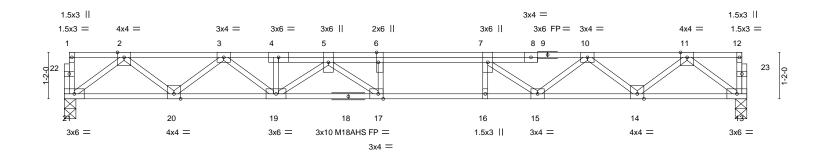
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8





1						17-1-8					'
Plate Off	Plate Offsets (X,Y) [6:0-3-0,Edge], [17:0-1-8,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.24 17	>842	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.33 17-19	>610	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06 13	n/a	n/a		
BCDL	5.0	Code IRC2021/T	PI2014	Matrix	k-S					Weight: 94 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

17-1-8

LUMBER-TOP CHORD

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

WFBS 2x4 SP No.3(flat)

REACTIONS.

(size) 21=0-3-8, 13=0-3-8

Max Grav 21=922(LC 1), 13=922(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1936/0, 3-4=-3199/0, 4-5=-3204/0, 5-6=-3855/0, 6-7=-3855/0, 7-10=-3227/0, TOP CHORD

10-11=-1931/0

BOT CHORD 20-21=0/1155, 19-20=0/2688, 17-19=0/3733, 16-17=0/3855, 15-16=0/3855, 14-15=0/2661,

13-14=0/1164

WFBS 2-21=-1446/0, 2-20=0/1017, 3-20=-979/0, 3-19=0/652, 5-19=-666/0, 5-17=-225/606,

6-17=-318/102, 11-13=-1458/0, 11-14=0/999, 10-14=-950/0, 10-15=0/765, 7-15=-881/0

NOTES-

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



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Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099825
J0725-3710	F06-GR	FLOOR GIRDER	1	1	
					Inh Reference (ontional)

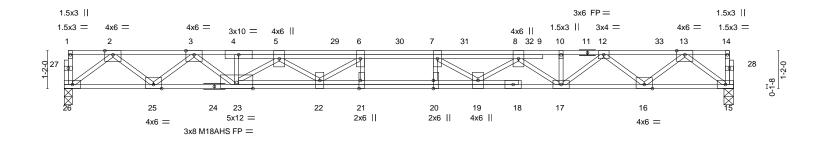
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.

0-1-8



			20-7-8	
Plate Offsets (X,Y)	[20:0-3-0,0-0-0], [21:0-3-0,Edge]			
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) -0.28 20-21 >889 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.60	Vert(CT) -0.39 20-21 >632 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.58	Horz(CT) 0.07 15 n/a n/a	
BCDI 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 129 lb FT = 20%F 11%F

BRACING-

TOP CHORD

BOT CHORD

20-7-8

LUMBER-

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

BOT CHORD WFBS

2x4 SP No.3(flat)

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

Max Grav 26=1006(LC 1), 15=985(LC 1)

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

TOP CHORD 2-3=-2205/0, 3-4=-4065/0, 4-5=-4079/0, 5-6=-5397/0, 6-7=-5625/0, 7-8=-5079/0,

8-10=-3700/0, 10-12=-3695/0, 12-13=-2169/0 25-26=0/1267, 23-25=0/3179, 22-23=0/5062, 21-22=0/5625, 20-21=0/5625, 19-20=0/5625,

BOT CHORD 17-19=0/4579, 16-17=0/3042, 15-16=0/1254

> $2\text{-}26\text{--}1588/0, 2\text{-}25\text{=-}0/1220, 3\text{-}25\text{=-}1268/0, 3\text{-}23\text{=-}0/1087, 13\text{-}15\text{=-}1572/0, 13\text{-}16\text{=-}0/1191, 13\text{-}0/1191, 13\text{$ $12 - 16 = -1135/0, \ 12 - 17 = 0/834, \ 8 - 17 = -1103/0, \ 8 - 19 = 0/668, \ 7 - 19 = -799/0, \ 5 - 23 = -1227/0,$

5-22=0/508, 6-22=-512/0

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 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 171 lb down at 6-9-12, 54 lb down at 8-4-8, 14 lb down at 10-4-8, 57 lb down at 12-4-8, 58 lb down at 14-4-8, and 58 lb down at 16-4-8, and 58 lb down at 18-4-8 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: 1-14=-80, 15-26=-8

Concentrated Loads (lb)

Vert: 5=-126(F) 11=-14(F) 29=-14(F) 30=-14(F) 31=-14(F) 32=-14(F) 33=-14(F)



July 23,2025

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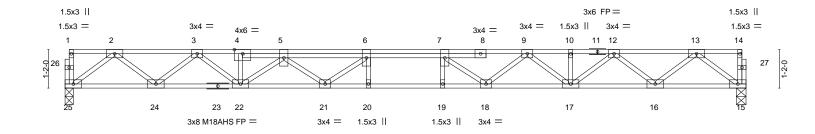


Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099826
J0725-3710	F07	FLOOR	11	1	
					Joh Reference (ontional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8





	20-7-8							
LOADIN	G (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.30 19-20 >827 480	MT20 244/190			
TCDL	10.0	Lumber DOL 1.00	BC 0.47	Vert(CT) -0.41 19-20 >600 360	M18AHS 186/179			
BCLL	0.0	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.07 15 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014	Matrix-S	` ,	Weight: 114 lb FT = 20%F, 11%E			

20-7-8

LUMBER-**BRACING-**

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

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

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

REACTIONS. (size) 25=0-3-0, 15=0-3-8 Max Grav 25=891(LC 1), 15=891(LC 1)

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

2-3=-1935/0, 3-4=-3314/0, 4-5=-3320/0, 5-6=-4305/0, 6-7=-4563/0, 7-9=-4161/0, TOP CHORD 9-10=-3321/0, 10-12=-3321/0, 12-13=-1934/0 24-25=0/1126, 22-24=0/2717, 21-22=0/4022, 20-21=0/4563, 19-20=0/4563, 18-19=0/4563,

BOT CHORD 17-18=0/3781, 16-17=0/2716, 15-16=0/1126

 $2 - 25 = -1410/0, \ 2 - 24 = 0/1053, \ 3 - 24 = -1018/0, \ 3 - 22 = 0/763, \ 13 - 15 = -1411/0, \ 13 - 16 = 0/1052, \ 13 - 1$ **WEBS**

 $12-16=-1017/0,\ 12-17=0/773,\ 9-17=-586/0,\ 9-18=0/588,\ 7-18=-677/0,\ 5-22=-883/0,$

5-21=0/536, 6-21=-573/45

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 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
			_		175099827
J0725-3710	F08	FLOOR	2	1	
					Lob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

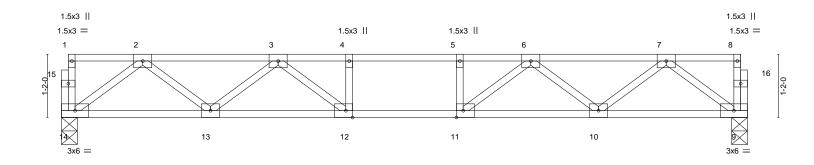
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8





1			12-8-0		
Г			12-8-0	1	
ate Of	ffsets (X,Y)	[11:0-1-8,Edge], [12:0-1-8,Edge]			

LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.34	DEFL. in (loc) I/defl L/d Vert(LL) -0.09 12-13 >999 480	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	BC 0.43 WB 0.30 Matrix-S	Vert(CT) -0.12 12-13 >999 360 Horz(CT) 0.03 9 n/a n/a	Weight: 63 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

Plat

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

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Grav 14=677(LC 1), 9=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1322/0, 3-4=-1996/0, 4-5=-1996/0, 5-6=-1996/0, 6-7=-1322/0 TOP CHORD 13-14=0/835, 12-13=0/1774, 11-12=0/1996, 10-11=0/1774, 9-10=0/835 **BOT CHORD WEBS** 2-14=-1045/0, 2-13=0/633, 3-13=-588/0, 3-12=0/485, 7-9=-1045/0, 7-10=0/633,

6-10=-588/0. 6-11=0/485

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) 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.





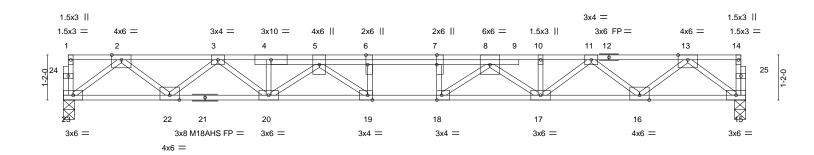
Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
10705 0740	F00	FLOOD	,		175099828
J0725-3710	F09	FLOOR	4	1	Job Reference (optional)

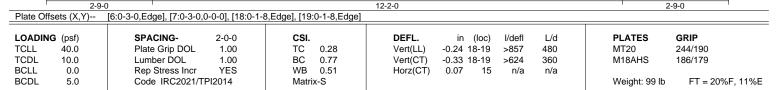
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



0-1-8 Scale = 1:29.8





14-11-0

LUMBER-

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

WFBS 2x4 SP No.3(flat)

2-9-0

BRACING-

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

except end verticals.

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

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

Max Grav 23=952(LC 1), 15=952(LC 1)

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

TOP CHORD 2-3=-2012/0, 3-4=-3343/0, 4-5=-3348/0, 5-6=-4200/0, 6-7=-4200/0, 7-8=-4200/0,

8-10=-3334/0, 10-11=-3331/0, 11-13=-2013/0 22-23=0/1195, 20-22=0/2796, 19-20=0/3916, 18-19=0/4200, 17-18=0/3884, 16-17=0/2798,

15-16=0/1194 WFBS 13-15=-1496/0, 2-23=-1496/0, 13-16=0/1066, 2-22=0/1064, 11-16=-1022/0,

3-22=-1021/0, 11-17=0/681, 3-20=0/699, 8-17=-689/0, 5-20=-714/0, 8-18=-38/695,

5-19=-71/673, 6-19=-355/38, 7-18=-369/17

NOTES-

BOT CHORD

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



17-8-0



Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
J0725-3710	E10	FLOOR	4	1	175099829
30723-3710	FIU	1 EOOK	•	'	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

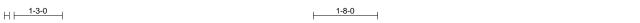
Structural wood sheathing directly applied or 6-0-0 oc purlins,

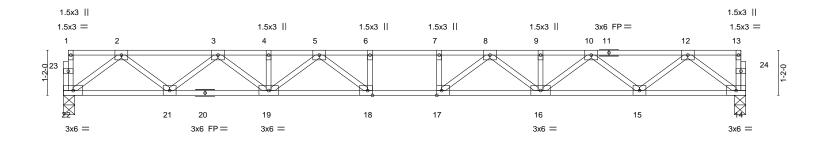
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 Scale = 1:29.8

0-1-8







BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

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

Max Grav 22=761(LC 1), 14=761(LC 1)

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

2-3=-1609/0, 3-4=-2673/0, 4-5=-2673/0, 5-6=-3171/0, 6-7=-3171/0, 7-8=-3171/0, TOP CHORD

8-9=-2673/0, 9-10=-2673/0, 10-12=-1609/0

21-22=0/955, 19-21=0/2235, 18-19=0/2988, 17-18=0/3171, 16-17=0/2988, 15-16=0/2235. BOT CHORD

14-15=0/955

WFBS 2-22=-1197/0, 2-21=0/850, 3-21=-815/0, 3-19=0/560, 12-14=-1197/0, 12-15=0/850,

10-15=-815/0, 10-16=0/560, 8-16=-402/0, 8-17=-70/482, 5-19=-402/0, 5-18=-70/482

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099830
J0725-3710	F11-GR	Floor Girder	1	1	Job Reference (optional)
					· · · · /

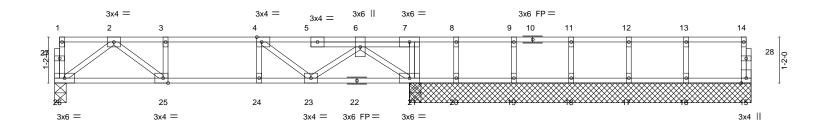
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 1-3-0

 $H \vdash$

2-3-0





<u> </u>	9-0-0 9-0-0		9-1-8 0-1-8		17-8-0 8-6-8	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [25:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.52 BC 0.54 WB 0.29	Vert(CT) -	in (loc) I/defl -0.08 24 >999 -0.10 24 >999 0.01 15 n/a	L/d PLATES 480 MT20 360 n/a	GRIP 244/190
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S			Weight: 84 II	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

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

REACTIONS. All bearings 8-8-0 except (jt=length) 26=0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20 except 26=494(LC 1), 21=1428(LC 1), 21=1428(LC 1)

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

2-3=-1030/0, 3-4=-1030/0, 4-6=-904/0 TOP CHORD

BOT CHORD 25-26=0/570, 24-25=0/1030, 23-24=0/1030, 21-23=0/691

WEBS $7\text{-}21\text{=-}1009/0,\ 2\text{-}26\text{=-}711/0,\ 2\text{-}25\text{=-}0/611,\ 3\text{-}25\text{=-}286/0,\ 6\text{-}21\text{=-}691/0,\ 6\text{-}23\text{=-}0/282,}$

4-23=-250/0

NOTES-

- 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.
- CAUTION. Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 883 lb down at 8-9-12 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: 15-26=-10, 1-14=-100

Concentrated Loads (lb)

Vert: 7=-831(B)



July 23,2025



Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099831
J0725-3710	F12	FLOOR	3	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

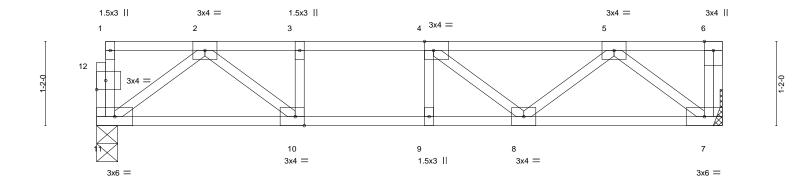
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale: 3/4"=1'



8-8-0 8-8-0 Plate Offsets (X.Y)-- [4:0-1-8.Edge], [10:0-1-8.Edge], [12:0-1-8.0-1-8]

_ Flate OII	Seis (A, I)	[4.0-1-6,Euge], [10.0-1-6,E0	ugej, [12.0-1	-0,0-1-0]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.07	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2	2014	Matri	x-S						Weight: 45 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 11=0-3-8, 7=Mechanical Max Grav 11=457(LC 1), 7=463(LC 1)

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

TOP CHORD 2-3=-898/0, 3-4=-898/0, 4-5=-766/0

BOT CHORD 10-11=0/524, 9-10=0/898, 8-9=0/898, 7-8=0/561 **WEBS** 2-11=-653/0, 2-10=0/500, 5-7=-703/0, 5-8=0/267

NOTES-

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





Job Truss Truss Type Qty Ply Lot 80 Duncans Creek 175099832 J0725-3710 FLOOR GIRDER F13-GR Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

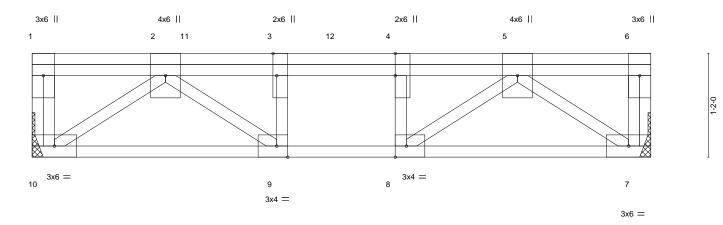
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0

Scale = 1:13.0



6-11-8 [3:0-3-0.Edge], [4:0-3-0.0-0-0], [8:0-1-8.Edge], [9:0-1-8.Edge] Plate Offcets (X V)--

T late Off	3613 (X, I)	[3.0-3-0,Luge], [4.0-3-0,0-0	0-0], [0.0-1-0,	Tiate Offsets (X, 1) [3.0-3-0,Edge], [4.0-3-0,0-0-0], [0.0-1-0,Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.02	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.03	9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI	2014	Matri	x-S						Weight: 47 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=Mechanical, 7=Mechanical Max Grav 10=896(LC 1), 7=931(LC 1)

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

TOP CHORD 2-3=-1714/0, 3-4=-1714/0, 4-5=-1714/0 9-10=0/1163, 8-9=0/1714, 7-8=0/1170 **BOT CHORD**

WEBS 5-7=-1436/0, 2-10=-1428/0, 5-8=0/692, 2-9=0/716, 3-9=-410/0, 4-8=-384/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 442 lb down at 1-10-0, and 377 lb down at 3-5-10, and 443 lb down at 5-5-10 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 7-10=-10, 1-6=-100 Concentrated Loads (lb)

Vert: 5=-363(F) 11=-363(F) 12=-363(F)



July 23,2025

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)

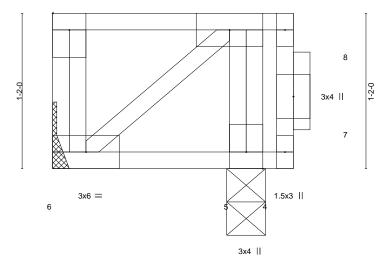


Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099833
J0725-3710	F14	Floor	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1
$$\label{eq:linear_problem} \begin{split} \text{ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f} \\ 3x6 = \end{split}$$

1-0-15 0-1-8 1 3x4 || 3 1.5x3 ||

Scale = 1:8.6



1-5-7

Plate Offsets (X,Y)	[1:Edge,0-1-8]		
LOADING (psf)	SPACING-	1-7-3	
TOLL NO Ó	Dieta Cris DOI	4.00	

LOADIN	IG (psf)	SPACING-	1-7-3	CSI.
TCLL	40.0	Plate Grip DOL	1.00	TC 0.24
TCDL	10.0	Lumber DOL	1.00	BC 0.08
BCLL	0.0	Rep Stress Incr	NO	WB 0.08
BCDL	5.0	Code IRC2021/TF	PI2014	Matrix-S

DEFL. (loc) I/defI L/d Vert(LL) -0.00 5-6 >999 480 Vert(CT) -0.00 5-6 >999 360 Horz(CT) -0.00 n/a n/a

PLATES GRIP MT20 244/190

> Weight: 15 lb 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 1-11-3 oc purlins,

except end verticals.

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

REACTIONS.

(size) 6=Mechanical, 5=0-3-8 Max Grav 6=182(LC 1), 5=634(LC 1)

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

WEBS

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-8. 1-3=-280

Concentrated Loads (lb) Vert: 2=-350



July 23,2025





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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099834
J0725-3710	F15	Floor	6	1	l
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1
$$\label{eq:linear_control_loss} \begin{split} & \text{ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f} \\ & 3x6 = \end{split}$$

Structural wood sheathing directly applied or 1-11-3 oc purlins,

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

except end verticals.

1-0-15 0-1-8 1 3x4 || 3 1.5x3 ||

Scale = 1:8.6

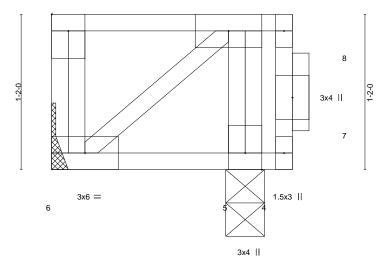


Plate Offsets	(X,Y)	[1:Edge,0-1-8]

LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.09 BC 0.02	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 6 >999 480 Vert(CT) -0.00 6 >999 360	PLATES GRIP MT20 244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.05	Horz(CT) -0.00 5 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Weight: 15 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 6=Mechanical, 5=0-3-8 Max Grav 6=70(LC 1), 5=459(LC 1)

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

WEBS

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Vert: 2=-350

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-10, 1-3=-100 Concentrated Loads (lb)





Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
J0725-3710	FKW1	FLOOR SUPPORTED GABL	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.630 e Aug 30 2023 MiTek Industries, Inc. Wed Jul 23 10:50:15 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-ANUqwUggHSA8qrtvhFCVQRiQxWZ4iKpSYz5WjByvN66

Scale = 1:29.3

0-11-8 0-1-8

3x6 FP= 3 6 8 9 10 12 13 15 16 5 11 14 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 3x6 FP= 3x4 = 4x4 =

———	17-8-0 17-8-0								
Plate Offsets (X,Y)	Plate Offsets (X,Y) [17:Edge,0-1-8]								
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 0.07 BC 0.02 WB 0.03 Matrix-R	DEFL. i Vert(LL) n/v Vert(CT) n/v Horz(CT) 0.00	a - r	efl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%F, 11%E		

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD [PSA] 2x4 SP No.1(flat) **BOT CHORD** except end verticals. 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SP No.3(flat) **OTHERS**

REACTIONS. All bearings 17-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 17, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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

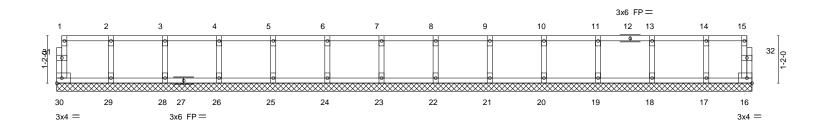
Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099836
J0725-3710	FKW2	Floor Supported Gable	1	1	
				l	Lob Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

0-ე1_8

Scale = 1:28.4



17-1-8 17-1-8								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R					Weight: 72 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 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 17-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

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



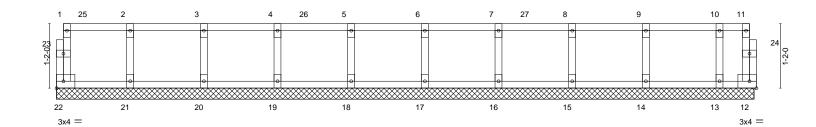


Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
10705 0740	FIGNO	ELOOD OURDONTED OARL			175099837
J0725-3710	FKW3	FLOOR SUPPORTED GABL	1	1	Job Reference (optional)

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0118

Scale = 1:20.8



	<u> </u>			
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.14	DEFL. in (loc) I/defl L/o	
TCDL 10.0	Lumber DOL 1.00	BC 0.04	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr NO	WB 0.05	Horz(CT) 0.00 12 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-R		Weight: 55 lb FT = 20%F, 11%E

12-8-0

LUMBER-**BRACING-**

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

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

except end verticals.

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

REACTIONS. All bearings 12-7-8.

(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.

- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Non Standard bearing condition. Review required.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down at 0-6-12, 95 lb down at 2-6-12, 95 lb down at 4-6-12, 95 lb down at 6-6-12, and 95 lb down at 8-6-12, and 95 lb down at 10-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 12-22=-10, 1-11=-100

Concentrated Loads (lb)

Vert: 3=-95(F) 6=-95(F) 9=-95(F) 25=-101(F) 26=-95(F) 27=-95(F)



July 23,2025



Job	Truss	Truss Type	Qty	Ply	Lot 80 Duncans Creek
					175099838
J0725-3710	FKW4	Floor Supported Gable	1	1	
				I	Llob Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

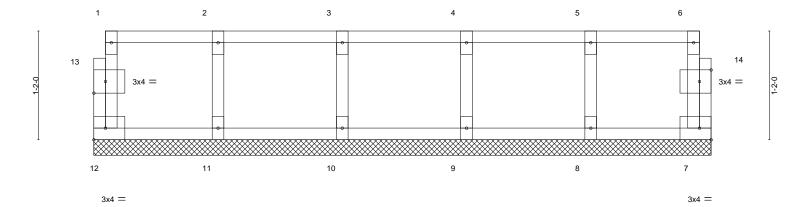
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8

Scale = 1:12.4



6-7-8

Plate Oil	Pidle Oilsels (A, 1) [13.0-1-6,0-1-6], [14.0-1-6,0-1-6]								
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014	Matrix-R					Weight: 30 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

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

BOT CHORD 2x4 SP No.1(flat)

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

REACTIONS. All bearings 6-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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.



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

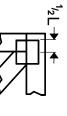
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)



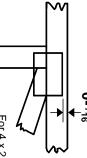
818 Soundside Road Edenton, NC 27932

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- ¹/16" from outside edge of truss.

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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

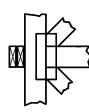
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

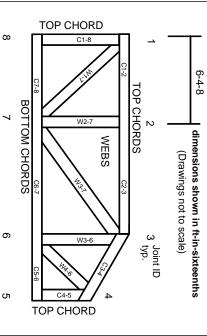
Industry Standards:

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.

ANSI/TPI1: 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.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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.