

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

# All Walls Shown Are Considered Load Bearing

Roof Area = 1692.08 sq.ft.
Ridge Line = 52.07 ft.
Hip Line = 0 ft.
Horiz. OH = 115.69 ft.
Raked OH = 175.3 ft.
Decking = 58 sheets

Hatch Legend

Padded HVAC

2nd Floor Walls

Tray Ceiling

Drop Beam

	Conne	Nail Info	ormation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	12	NA	16d/3-1/2"	16d/3-1/2"
3	THDH210-3	USP	1	Varies	16d/3-1/2"	16d/3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan
Scale: 1/4"=1'

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



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 Cod requirements) to determine the minimum foundatic size and number of wood studs required to suppor reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attache Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

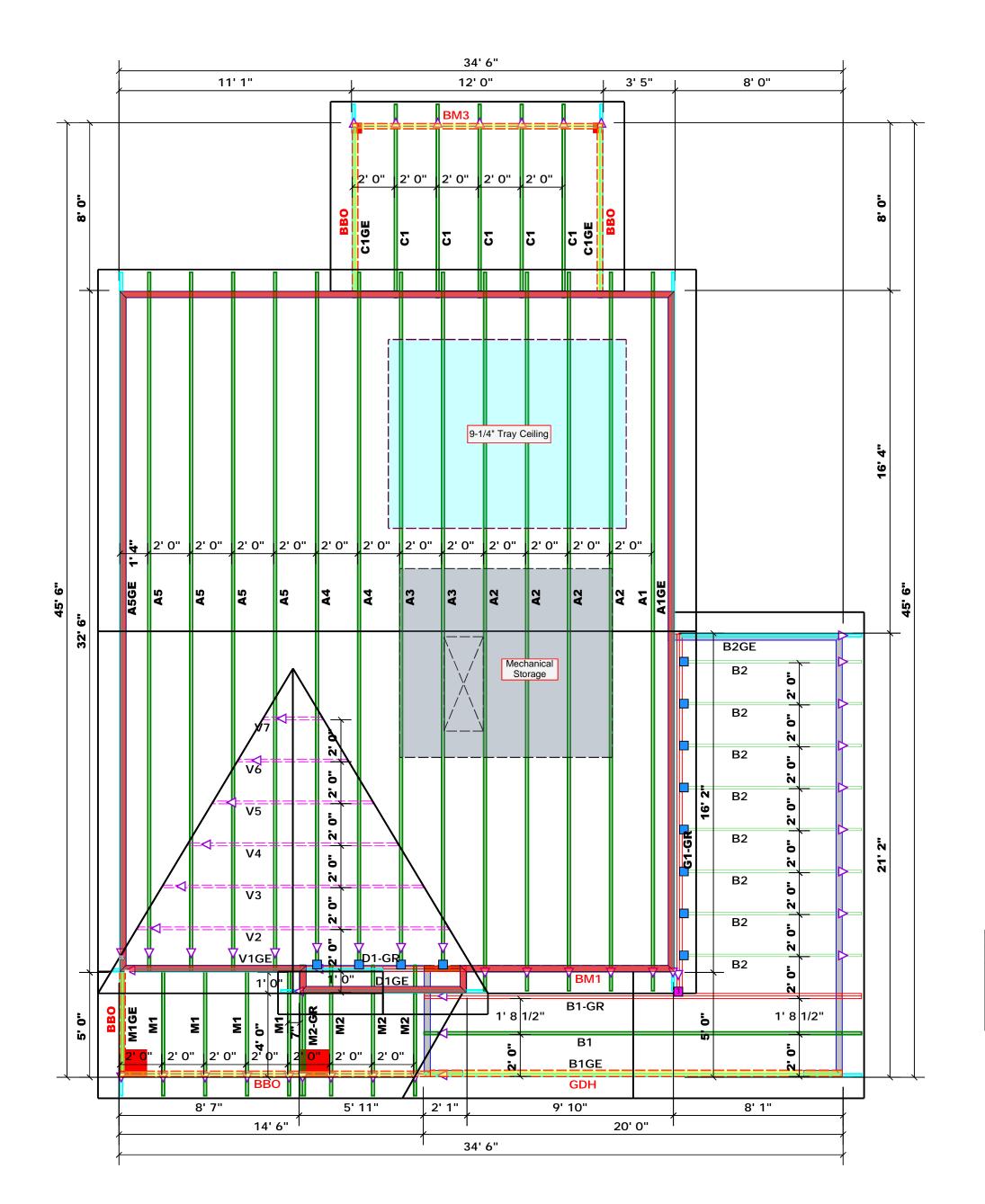
David Landry

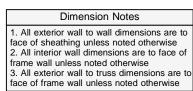
David Landry

LO.	AD (	CHAR	₹T FO	RJ	ACK :	STUD	5
	(8	ASED O	N TABLE:	S R502	5(1) 4 ()	200	
NU	ABER C		STUDS R HEADER/V			A END OF	•
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ16 STUDS FOR (3) PLY HEADER		END RENCTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
10200	6		15300	6			
11900	7						
13600	8						
15300	9						

		=		
BUILDER	Weaver Development Co. Inc.	CI TY / CO.	CITY / CO. Lillington / Harnett	8500 10200 11900 13600 15300
JOB NAME	JOB NAME Lot 3 Hales Farm	ADDRESS	NC 27 West	5 6 7 8
PLAN	Hickory II "C" / 2GLF, CP	MODEL	Roof	12750 15300
SEAL DATE N/A	N/A	DATE REV.	08/18/22	
QUOTE #		DRAWN BY	DRAWN BY David Landry	1700
JOB#	J0822-4192	SALES REP.	SALES REP. Lenny Norris	00 5

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





# All Walls Shown Are Considered Load Bearing

	Ha	atch Legend
Roof Area = 1692.08 sq.ft.		Padded HVAC
Ridge Line = 52.07 ft. Hip Line = 0 ft.		2nd Floor Walls
Horiz. OH = 115.69 ft. Raked OH = 175.3 ft.		Troy Coiling
Decking = 58 sheets		Tray Ceiling
		Drop Beam

	Conne	Nail Info	ormation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	12	NA	16d/3-1/2"	16d/3-1/2"
3	THDH210-3	USP	1	Varies	16d/3-1/2"	16d/3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan
Scale: 1/4"=1'



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

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David Landry

David Landry

LO.	LOAD CHART FOR JACK STUDS									
	(BASED ON TABLES R502 5(1) & (b))									
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)	REQ15 STUDS FOR (3) PLY HEADER		END RENCTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER			
1700	1		2550	1		3400	1			
3400	2		5100	2		6800	2			
5100	3		7650	3		10200	3			
6800	4		10200	4		13600	4			
8500	5		12750	5		17000	5			
10200	6		15300	6						
11900	7									
13600	8									
15300	9									

BUILDER	Weaver Development Co. Inc.	CI TY / CO.	CITY / CO.   Lillington / Harnett	11900 13600 15300
JOB NAME	JOB NAME Lot 3 Hales Farm	ADDRESS	ADDRESS NC 27 West	7 8 9
PLAN	Hickory II "C" / 2GLF, CP	MODEL	Roof	15300
SEAL DATE N/A	N/A	<b>DATE REV</b> . 08/18/22	08/18/22	, 0
QUOTE #		DRAWN BY	DRAWN BY David Landry	
JOB#	J0822-4192	SALES REP.	SALES REP. Lenny Norris	

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

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



RE: J0822-4192 Lot 3 Hales Farm Trenco

818 Soundside Rd Edenton, NC 27932

# Site Information:

Customer: Weaver Development Project Name: J0822-4192 Lot/Block: 3 Model: Hickory II

Address: NC 27 West Subdivision: Hales Farm

State: NC City: Lillington

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16492049	A1	12/20/2021	21	E16492069	M2-GR	12/20/2021
2	E16492050	A1GE	12/20/2021	22	E16492070	V1GE	12/20/2021
3	E16492051	A2	12/20/2021	23	E16492071	V2	12/20/2021
4	E16492052	A3	12/20/2021	24	E16492072	V3	12/20/2021
5	E16492053	A4	12/20/2021	25	E16492073	V4	12/20/2021
6	E16492054	A5	12/20/2021	26	E16492074	V5	12/20/2021
7	E16492055	A5GE	12/20/2021	27	E16492075	V6	12/20/2021
8	E16492056	B1	12/20/2021	28	E16492076	V7	12/20/2021
9	E16492057	B1-GR	12/20/2021				
10	E16492058	B1GE	12/20/2021				
11	E16492059	B2	12/20/2021				
12	E16492060	B2GE	12/20/2021				
13	E16492061	C1	12/20/2021				
14	E16492062	C1GE	12/20/2021				
15	E16492063	D1-GR	12/20/2021				
16	E16492064	D1GE	12/20/2021				
17	E16492065	G1-GR	12/20/2021				
18	E16492066	M1	12/20/2021				
19	E16492067	M1GE	12/20/2021				

12/20/2021

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

Truss Engineering Co. under my direct supervision

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

M2

Truss Design Engineer's Name: Strzyzewski, Marvin

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

E16492068

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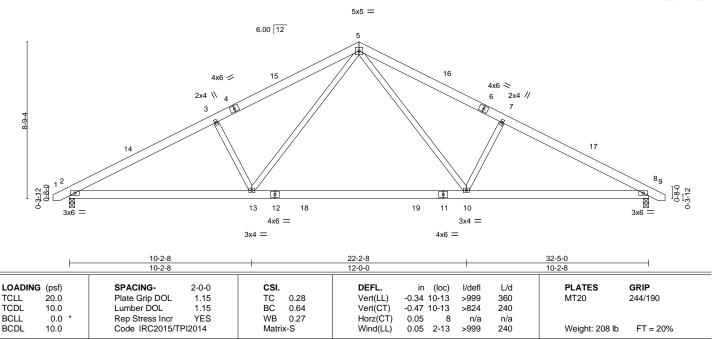
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



December 20, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Fa	arm	
							E16492049
J0822-4192	A1	COMMON	1	1			
					Job Reference	e (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,	8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:46 2021 Page 1					2021 Page 1
			ID:1yUksKympll	c2404ufZY	CrxyoKUD-cOo	okM7e_U9uBJpmwi?x?s48ibor5qAAQ\	YoEzy74yN
-Q-11-Ω	8-2-8	16-2-8		4-2-8		32-5-0	33-4-0
d-11-b	8-2-8	8-0-0	3	3-0-0	-	8-2-8	0-11-0

Scale = 1:60.7



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-110(LC 10) REACTIONS.

Max Uplift 2=-89(LC 12), 8=-89(LC 13) Max Grav 2=1337(LC 1), 8=1337(LC 1)

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

TOP CHORD BOT CHORD 2-3=-2307/486, 3-5=-2125/534, 5-7=-2125/534, 7-8=-2307/486

 $2\text{-}13\text{=-}316/2007,\ 10\text{-}13\text{=-}106/1303,\ 8\text{-}10\text{=-}320/1964}$ 

**WEBS** 5-10=-147/921, 7-10=-454/288, 5-13=-147/921, 3-13=-454/288

### NOTES-

- Unbalanced roof live loads have been considered for this design.
   Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 4-11-7 oc purlins.

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

December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

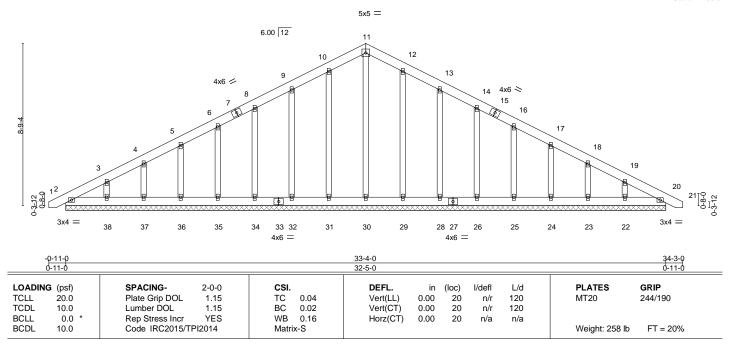
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and it for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see 

\*\*ANSI/TPI\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm		
J0822-4192	A1GE	COMMON SUPPORTED GAB	1	1		E16492050	
					Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,		8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:49 2021 Page 1				
		ID:1yL	ksKymplk24	04ufZYCr	xyoKUD-1zUs?9gsn4GmAGVUN8UiUjmGc00b1Zl	osEmTdbJy74yK	
-0-11-0	17-1-	8			33-4-0	34-3-0	
o-11-o	16-2-	8			16-2-8	0-11-0	

Scale = 1:58.6



LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** 

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

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

REACTIONS. All bearings 32-5-0.

Max Horz 2=-171(LC 17) (lb) -

Max Uplift All uplift 100 b or less at joint(s) 2, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 2, 30, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23,

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

TOP CHORD 10-11=-114/284, 11-12=-114/284

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 20,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTek® 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm			
10000 1100		D005 0D50111			E1649205	51		
J0822-4192	A2	ROOF SPECIAL	4	1				
					Job Reference (optional)			
Comtech, Inc,	Fayetteville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:51 2021 Page 1			
		ID:1vUksKymplk2404ufZYCrxvoKUD-zMcdQri7liWUPaftUYWAZ8sR3pYxVLf9h4vkfCv74vI						

6-0-0

19-2-8

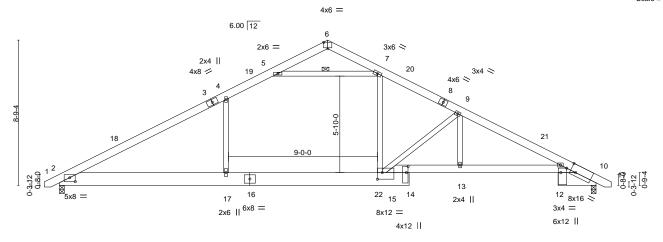
Scale = 1:65.5

30-1-8 5-11-0

Structural wood sheathing directly applied or 4-0-8 oc purlins.

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

24-2-8



	10-2-8 10-2-8	16-2-8 6-0-0	19-2-8 3-0-0		4-2-8 3-1-0	30-1- 5-11-		
Plate Offsets (X,Y) [2:0-4-0,0-2-14], [6:0-3-0,Edge], [10:0-4-0,Edge], [12:0-3-4,Edge], [14:0-4-8,0-1-4], [15:0-3-8,0-4-12]								
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 IRC2015/TPI2014	CSI. TC 0.75 BC 0.67 WB 0.70 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.21 17 -0.38 17 0.09 10 0.17 2-17	I/defI >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 247 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x10 SP No.1 \*Except\*

-0-11-0 0-11-0

10-15: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2

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

Max Horz 2=110(LC 11)

Max Uplift 2=-90(LC 12), 10=-90(LC 13) Max Grav 2=1393(LC 2), 10=1353(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-2217/403, 4-5=-1870/483, 7-9=-2258/519, 9-10=-2889/551 2-17=-193/1848, 15-17=-195/1860, 13-15=-371/2525, 10-13=-380/2525 TOP CHORD BOT CHORD 4-17=-29/402, 7-15=-114/967, 9-15=-1075/232, 9-13=0/616, 5-7=-1955/459 **WEBS** 

10-2-8 10-2-8

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

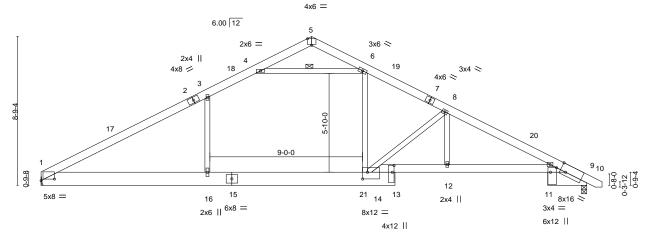


December 20,2021



Job		Truss	Truss Type			Qty	Ply	Lot 3 Hales Farm
J0822-4192		A3	ROOF SPECIA	L		2	1	E16492052
								Job Reference (optional)
Comtech, Inc,	Fayettev	ville, NC - 28314,				8.4	30 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:52 2021 Page 1
					ID:1yl	JksKymplk	c2404ufZY	CrxyoKUD-RY9?dAjl3?eL1kE32G2P6LOcfDuEEorJwkhHBey74yH
		9-11-8	1	15-11-8	18-11-8	1 2	23-11-8	29-10-8 32-2-0 33-1-0
	1	9-11-8	1	6-0-0	3-0-0	1	5-0-0	5-11-0 2-3-8 0-11-0

Scale: 3/16"=1'



		9-11-8	9-0-0	1-11-0	3-1-0	5-11-0	2-3-8	1
Plate Offs	sets (X,Y)							
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l	/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.21	16 >	999 360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.36	16 >	999 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.09	9	n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.16	1-16 >	999 240	Weight: 243 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

20-10-8 23-11-8

1 Row at midpt

29-10-8

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

4-6

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

32-2-0

18-11-8

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x10 SP No.1 \*Except\*

9-14: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 9=0-3-8

Max Horz 1=-111(LC 8)

Max Uplift 1=-76(LC 12), 9=-90(LC 13) Max Grav 1=1345(LC 2), 9=1347(LC 2)

9-11-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-2189/401, 3-4=-1853/491, 6-8=-2237/517, 8-9=-2874/549 BOT CHORD 1-16=-198/1827, 14-16=-200/1839, 12-14=-375/2511, 9-12=-384/2511  $6\text{-}14\text{=-}117/966,\ 3\text{-}16\text{=-}53/392,\ 4\text{-}6\text{=-}1931/474,\ 8\text{-}14\text{=-}1081/228,\ 8\text{-}12\text{=-}0/620}$ **WEBS** 

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.

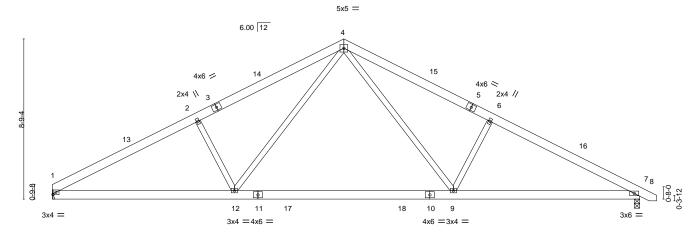


December 20,2021



Job		Truss	Truss Type	(	Qty	Ply	Lot 3 Hales	Farm	
									E16492053
J0822-4192		A4	COMMON	2	2	1			
							Job Referer	nce (optional)	
Comtech, Inc,	Fayette	ville, NC - 28314,			8.4	30 s Aug	16 2021 MiTe	ek Industries, Inc. Mon Dec 2	20 11:22:53 2021 Page 1
	-			ID:1yU	lksKympl	<2404ufŽ۱	CrxyoKUD-v	kjNqWkNqJmCfupGczZefZxi	updEkzLtS9ORrk4y74yG
_		7-11-8	15-11-8		23-1	1-8		32-2-0	33-1-Q
		7-11-8	8-0-0		8-0	-0		8-2-8	0-11-0

Scale = 1:59.4



		9-11-8		1		12-0-0			1		10-2-8	· ·
Plate Offsets (2	<,Y) [1:0-1	-14,0-1-8]										
LOADING (ps	F)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	,	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.34	( /	>999	360	MT20	244/190
TCDL 10.	0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.47	9-12	>822	240		
	0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.	0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.05	12	>999	240	Weight: 204 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

21-11-8

LUMBER-

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

2x4 SP No 2 WFBS

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

Max Horz 1=-111(LC 8) Max Uplift 1=-76(LC 12), 7=-89(LC 13) Max Grav 1=1278(LC 1), 7=1331(LC 1)

9-11-8

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

TOP CHORD  $1\hbox{-}2\hbox{--}2276/496,\ 2\hbox{-}4\hbox{--}2096/546,\ 4\hbox{-}6\hbox{--}2113/532,\ 6\hbox{-}7\hbox{--}2294/484}$ 

BOT CHORD  $1\hbox{-}12\hbox{-}-319/1973, \, 9\hbox{-}12\hbox{-}-109/1291, \, 7\hbox{-}9\hbox{-}-324/1953$ 

WEBS  $4-9=-147/922,\ 6-9=-454/288,\ 4-12=-144/897,\ 2-12=-437/286$ 

# NOTES-

- Unbalanced roof live loads have been considered for this design.
   Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



32-2-0

Structural wood sheathing directly applied or 4-11-9 oc purlins.

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

December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

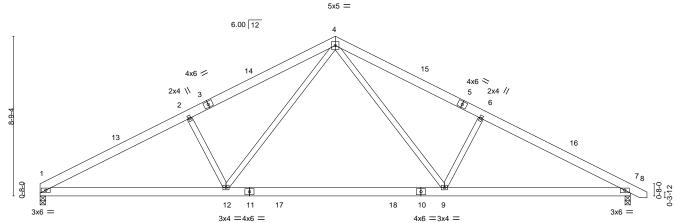
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and it for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see 

\*\*ANSI/TPI\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type		Qty	Ply	Lot 3 Hales Farm
							E16492054
J0822-4192		A5	COMMON		4	1	
							Job Reference (optional)
Comtech, Inc,	Fayette	ville, NC - 28314,			8.4	30 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:54 2021 Page 1
				ID:1yUl	sKymplk2	404ufZYC	CrxyoKUD-NxHl2sk?bdu3G2OSAh4tBmU3V1ayio3cN2AOGXy74yF
		8-2-8	16-2-8	1	24-	2-8	32-5-0 33-4-0
1		8-2-8	8-0-0	1	8-0	)-0	8-2-8 0-11-0





	10-2-8	'	12-0-0	<u>'</u>	10-2-8	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.34	9-12 >999 360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.47	9-12 >822 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.05	7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	12 >999 240	Weight: 206 lb FT = 20%	

**BRACING-**

TOP CHORD

BOT CHORD

22-2-8

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-111(LC 10) Max Uplift 1=-77(LC 12), 7=-89(LC 13)

Max Grav 1=1284(LC 1), 7=1337(LC 1)

10-2-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2310/503, 2-4=-2129/551, 4-6=-2126/535, 6-7=-2308/487 TOP CHORD BOT CHORD

1-12=-327/2012, 9-12=-111/1304, 7-9=-326/1966

**WEBS** 4-9=-147/921, 6-9=-454/288, 4-12=-149/924, 2-12=-458/292

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  4) \*This truss has been designed for a 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) 1, 7.



32-5-0

Structural wood sheathing directly applied or 4-10-13 oc purlins.

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

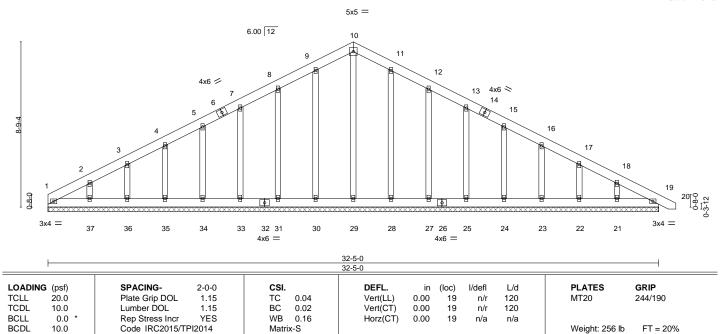
December 20,2021





Job		Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm	
							E16492055
J0822-4	192	A5GE	COMMON SUPPORTED GAB	1	1		
						Job Reference (optional)	
Comte	ch, Inc, Fayette	eville, NC - 28314,		8.4	430 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:2	22:55 2021 Page 1
				ID:1yUksKym	plk2404uf2	ZYCrxyoKUD-r7r7FCldMw0vuByejOb6k_0I5Q4?	RG4lchwyozy74yE
		16-2-8				32-5-0	33-4-0
		16-2-8	ı e			16-2-8	0-11-0

Scale = 1:57.6



LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** 

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

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

REACTIONS. All bearings 32-5-0.

Max Horz 1=-175(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 31, 33, 34, 35, 36, 28, 27, 25, 24, 23, 22, 21 except

37=-101(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22,

21, 19

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

TOP CHORD 9-10=-114/284, 10-11=-114/284

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 31, 33, 34, 35, 36, 28, 27, 25, 24, 23, 22, 21 except (jt=lb) 37=101.



December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

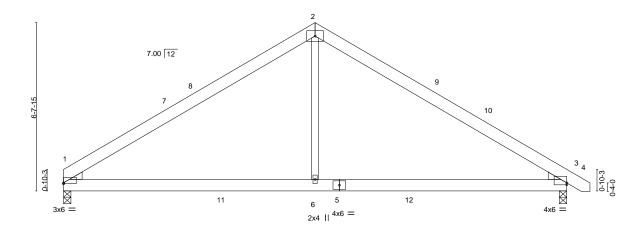
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
					E16492056
J0822-4192	B1	COMMON	1	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:57 2021 Page 1
		ID	1yUksKympl	2404ufZY	CrxyoKUD-oWzugunuuYGd7V61rpdapP6W7EfuvAk24?P2tsy74yC
_		9-11-8			19-11-0 20-10-0
· ·		9-11-8			9-11-8 '0-11-0'
		5x8 =			Scale = 1:42.9



			9-11-8						9-11-8			
Plate Offse	ets (X,Y)	[1:0-0-0,0-0-7], [3:0-0-0,0	-0-15]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.44	Vert(CT)	-0.13	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	k-S	Wind(LL)	0.04	3-6	>999	240	Weight: 114 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

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

WEDGE

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

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

Max Horz 1=-149(LC 8)

Max Uplift 1=-43(LC 12), 3=-56(LC 13) Max Grav 1=900(LC 19), 3=951(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1193/217, 2-3=-1221/216

BOT CHORD

1-6=-30/956, 3-6=-30/956 **WEBS** 2-6=0/660

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-11-11 oc purlins.

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

December 20,2021





Job Truss Truss Type Qty Ply Lot 3 Hales Farm F16492057 J0822-4192 B1-GR COMMON GIRDER Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:59 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:1yUksKymplk2404ufZYCrxyoKUD-ku5e5ao8Q9WLNpGPyEg2uqBwH2NwN\_uLXJu9xky74yA 19-11-0 14-11-8 5-0-0

> Scale = 1:43.5 5x12 ||

> > Structural wood sheathing directly applied or 4-11-12 oc purlins.

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

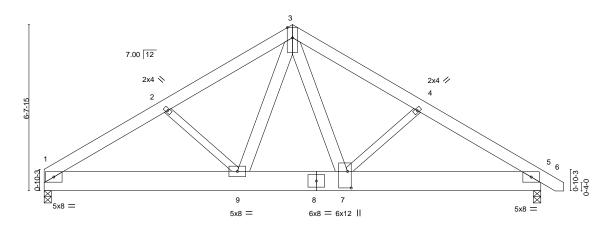


Plate Offsets (X,Y)--[7:0-8-0,0-1-12] LOADING (psf) SPACING-CSI. DEFL **PLATES** 2-0-0 I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.07 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) -0.14 >999 240 **BCLL** 0.0 Rep Stress Incr WB 0.55 Horz(CT) 0.03 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.05 >999 240 Weight: 348 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

12-2-0

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E 2x6 SP No.1 \*Except\* WFBS

4-7,2-9: 2x4 SP No.2

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

Max Horz 1=-148(LC 4)

Max Uplift 1=-423(LC 8), 5=-642(LC 9) Max Grav 1=4234(LC 2), 5=6219(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $1\hbox{-}2\hbox{--}7519/795, 2\hbox{-}3\hbox{--}7422/798, 3\hbox{-}4\hbox{--}10665/1144, 4\hbox{-}5\hbox{--}10716/1136}$ TOP CHORD

BOT CHORD 1-9=-679/6256, 7-9=-581/6251, 5-7=-887/8935

WEBS 3-7=-953/8888, 4-7=-281/487, 3-9=-44/404, 2-9=-284/309

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
  - Bottom chords connected as follows: 2x10 4 rows staggered at 0-2-0 oc. Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph 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) 9034 lb down and 972 lb up at 12-1-4 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: 1-3=-60, 3-6=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-7520(B)



December 20,2021

ameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 designs. 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 experts.

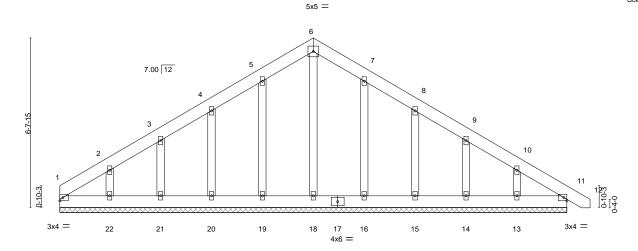
\*\*Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
					E16492058
J0822-4192	B1GE	COMMON SUPPORTED GAB	1	1	
					Job Reference (optional)
Comtech, Inc, Fayer	teville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:58 2021 Page 1
		ID:1	yUksKymp	lk2404ufZ\	CrxyoKUD-GiXGuEnWfrOUlfhDPW8pMcepae5keeDBlf8cPly74yB
		9-11-8			19-11-0 20-10-0

Scale = 1:42.6

0-11-0



19-11-0 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl L/d Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 20.0 1.15 0.03 0.00 120 MT20 11 n/r ВС **TCDL** 10.0 Lumber DOL 1.15 0.02 Vert(CT) 0.00 11 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.07 Horz(CT) 0.00 n/a 11 n/a BCDL Code IRC2015/TPI2014 Weight: 146 lb FT = 20%

19-11-0

LUMBER-

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

9-11-8

**REACTIONS.** All bearings 19-11-0.

(lb) - Max Horz 1=-186(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 20, 21, 16, 15, 14, 11 except 22=-116(LC 12),

13=-103(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 18, 19, 20, 21, 22, 16, 15, 14, 13, 11

9-11-8

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- 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) 1, 19, 20, 21, 16, 15, 14, 11 except (jt=lb) 22=116, 13=103.



December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

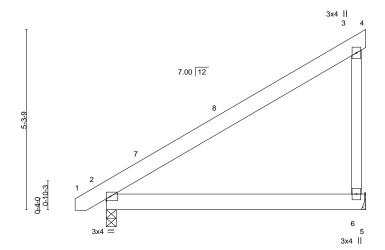


Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	B2	JACK-CLOSED	8	1	E16492059
0002202		0.161. 626625			Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:00 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-C4e0lwpmBTeC\_zrcWxBHR1k4LRkA6ZnUmzdjUAy74y9 7-7-8 7-7-8

Scale: 3/8"=1'



		·	7-7-8	
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) -0.04 2-6 >999 360 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.07 2-6 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 48 lb FT = 20%	

LUMBER-

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

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

except end verticals.

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

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

Max Horz 2=158(LC 12) Max Uplift 6=-82(LC 12)

Max Grav 6=318(LC 19), 2=345(LC 1)

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

TOP CHORD 3-6=-288/220

### NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 7-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0-11-0

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



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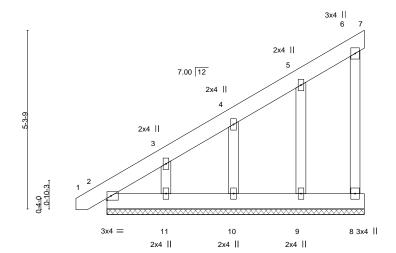
818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
10000 4400	B2GE	MONOPITCH SUPPORTED		,	E16492060
J0822-4192	B2GE	MONOPITCH SUPPORTED	'	'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:00 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-C4e0lwpmBTeC\_zrcWxBHR1k9\_Rnl6ZJUmzdjUAy74y9 7-7-8

Scale: 3/8"=1'



LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 20.0 1.15 0.03 -0.00 120 MT20 n/r TCDL 10.0 Lumber DOL 1.15 вс 0.01 Vert(CT) -0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.03 -0.00 n/a n/a Horz(CT) BCDL Code IRC2015/TPI2014 Matrix-P Weight: 57 lb FT = 20%

LUMBER-

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

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

except end verticals.

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

**REACTIONS.** All bearings 7-7-8.

(lb) - Max Horz 2=228(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10 except 11=-117(LC 12)

0-11-0

Max Grav All reactions 250 lb or less at joint(s) 7, 8, 2, 9, 10, 11

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

TOP CHORD 2-3=-269/227

### NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 7, 8, 9, 10 except (it=lb) 11=117.



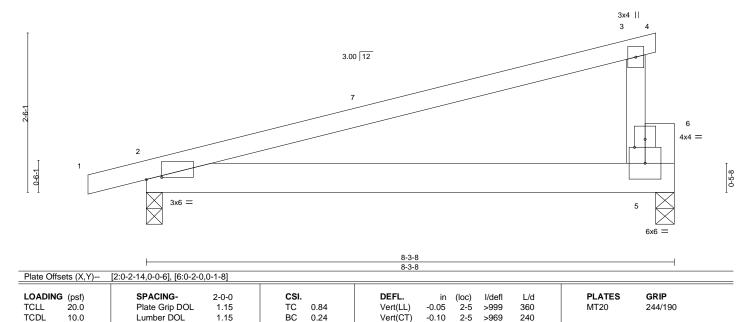
December 20,2021



rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
					E16492061
J0822-4192	C1	Monopitch	5	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8.4	130 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:01 2021 Page 1
		ID:1yl	JksKymplk2	2404ufZYC	crxyoKUD-gHCPWFqOymn3c6Qo4fiWzFG70r4tr01e_dNG0dy74y8
-0-11-	0 1	8-0-6	) .		
0-11-0	) '	8-0-6	)		

Scale = 1:17.0



Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

BOT CHORD

0.00

0.10

2-5

n/a

240

Structural wood sheathing directly applied or 5-3-4 oc purlins,

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

Weight: 37 lb

FT = 20%

>886

except end verticals.

LUMBER-

**BCLL** 

BCDL

TOP CHORD BOT CHORD 2x4 SP No.1

10.0

2x6 SP No.1 2x4 SP No.2 WFBS 2x6 SP No.1 **OTHERS** 

REACTIONS.

(size) 2=0-3-0, 5=0-3-8 Max Horz 2=74(LC 8)

Max Uplift 2=-150(LC 8), 5=-127(LC 8) Max Grav 2=375(LC 1), 5=314(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

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

WB 0.00

Matrix-P

YES

- 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=150, 5=127.



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Scale = 1:17.0 3x4 = 6 2x4 || 5 3.00 12 2x4 || 2x4 || 12 4x4 = 0-6-1 3x6 = 11 10 9 2x4 || 2x4 || 2x4 || 5x10 M18AHS =

					8-3-	8				
Plate Off	sets (X,Y)	[2:0-2-14,0-0-6], [8:Edge	,0-2-0], [12:0-2	2-0,0-1-8]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC 0.35	5 Vert(LL)	0.09 10-11	>999 240	MT20	244/190	
TCDI	10.0	Lumber DOI	1 15	BC 0.26	6 Vert(CT)	-0.08.10-11	<b>SQQQ</b> 240	M18AHS	186/170	

8-3-8

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

-0.00

8 n/a

except end verticals.

n/a

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

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

Weight: 41 lb

FT = 20%

 BCLL
 0.0 \*
 Rep Stress Incr
 YES
 WB 0.01

 BCDL
 10.0 \*
 Code IRC2015/TPI2014
 Matrix-S

2x6 SP No.1 2x4 SP No.2 2x4 SP No.2 \*Except\*

OTHERS 2x4 SP No.2 \*Except 8-12: 2x6 SP No.1

2x4 SP No.1

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

Max Horz 2=105(LC 8)

Max Uplift 2=-216(LC 8), 8=-188(LC 8) Max Grav 2=375(LC 1), 8=314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. BOT CHORD 2-11=-284/207, 10-11=-284/207, 9-10=-284/207, 8-9=-284/207

# NOTES-

TOP CHORD

BOT CHORD

WFBS

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb) 2=216, 8=188.



December 20,2021

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\*\*ANSI/TPI\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

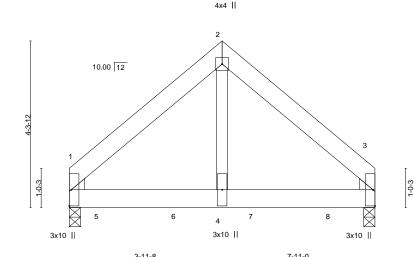
Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	D1-GR	Common Girder	1		E16492063
00022 1102	3. 6.0	Common Circo.		2	Job Reference (optional)
O	'II- NO 00044		0	00 - 4	10 0004 MT-leladorida da Mar Da 00 44 00 04 0004 Da - 4

Fayetteville, NC - 28314,

ID:1yUksKymplk2404ufZYCrxyoKUD-5suX8HsHEh9eTa8NInFDbtulV30Y2Hm4hbbwdyy74y5

3-11-8

Scale = 1:28.1



DEFL.

TOP CHORD

**BOT CHORD** 

				1
LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.15	TC 0.38
TCDL	10.0	Lumber DOL	1.15	BC 0.57
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.39
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-P

Vert(LL) -0.02 3-4 >999 360 Vert(CT) -0.04 3-4 >999 240 Horz(CT) 0.01 n/a n/a Wind(LL) 0.01 3-4 >999 240 BRACING-

in (loc) L/d

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

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

I/defl

**PLATES** GRIP 244/190 MT20

Weight: 100 lb FT = 20%

LUMBER-

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

WEDGE

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

REACTIONS.

(size) 1=0-3-8, 3=0-3-8 Max Horz 1=91(LC 24)

Max Uplift 1=-191(LC 8), 3=-180(LC 9) Max Grav 1=2919(LC 1), 3=2779(LC 2)

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

TOP CHORD 1-2=-2418/177, 2-3=-2418/177 BOT CHORD 1-4=-100/1678, 3-4=-100/1678

WEBS 2-4=-154/3142

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 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 7-10; Vult=130mph 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) 1=191, 3=180.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1261 lb down and 93 lb up at 0-9-12, 1258 lb down and 96 lb up at 2-9-12, and 1325 lb down and 96 lb up at 4-9-12, and 1325 lb down and 96 lb up at 6-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

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



December 20,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
10000 4400	D4 0D	O a maria de Olimbra			E16492063
J0822-4192	D1-GR	Common Girder	1	2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:04 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-5suX8HsHEh9eTa8NInFDbtulV30Y2Hm4hbbwdyy74y5

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 5=-1261(B) 6=-1258(B) 7=-1258(B) 8=-1258(B)

Job		Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4	102	D1GE	COMMON SUPPORTED GAB	1	1	E16492064
30022-4	192	DIGL	COMMON SOFF ON TED GAB	'	'	Job Reference (optional)
Comte	ch Inc. Favette	ville NC - 28314		8.4	130 s Aug	16 2021 MiTek Industries Inc. Mon Dec 20 11:23:03 2021 Page 1

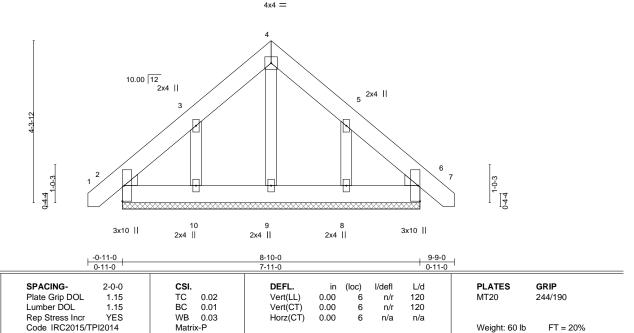
4-10-8 3-11-8

ID:1yUksKymplk2404ufZYCrxyoKUD-cfK9xxreUO1nrQaBB4k\_3fMfMfozJw1wSxsN4Vy74y6

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

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

Scale = 1:28.8



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

LOADING (psf)

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

20.0

10.0

0.0

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

REACTIONS. All bearings 7-11-0.

(lb) - Max Horz 2=-118(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-152(LC 12), 8=-148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=152, 8=148,
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 20,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 3 Hales Farm F16492065 J0822-4192 G1-GR FLAT GIRDER Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:06 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-1E0HZzuXmJPMiuImtClhgIz8Kso6W8IN8v41hqy74y38-6-12 4-0-12 17-1-8 Scale = 1:33.3 2x4 || 2x4 || 4x6 =3x10 =5x8 = ズ ·  $\boxtimes$  $\boxtimes$  $\bigotimes$ 18 19 21 22 12 25 26 29 30 17 20 23 24 27 28 14 11 15 13 16 6x6 || 10 9 6x8 = 10x10 = 3x10 || 10x10 = 6x6 II 4-6-0 12-7-8 17-1-8 4-0-12 4-0-12 [11:0-5-0,0-7-4], [13:0-7-0,0-1-8], [14:0-5-0,0-7-4] Plate Offsets (X,Y)--LOADING (psf) SPACING-DEFL **PLATES** GRIP 2-0-0 CSI. I/defl L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.04 13 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) -0.06 13 >999 240 **BCLL** 0.0 Rep Stress Incr WB 0.64 Horz(CT) 0.01 10 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 13 >999 240 Weight: 535 lb FT = 20% **BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E 2x4 SP No.2 \*Except\* WFBS

2-15.7-10: 2x6 SP No.1

REACTIONS. (size) 15=Mechanical, 10=0-3-8

Max Uplift 15=-952(LC 4), 10=-496(LC 5) Max Grav 15=9044(LC 2), 10=5622(LC 14)

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

TOP CHORD 2-15=-4967/485, 2-3=-4297/388, 3-5=-4297/388, 5-6=-4012/329, 6-7=-4012/329,

7-10=-4613/423

BOT CHORD 13-14=-445/5318, 11-13=-445/5318

2-14=-563/6307, 5-14=-1816/442, 7-11=-484/5953, 5-13=-233/2760, 5-11=-2053/179 WEBS

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 5 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-10; Vult=130mph 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
- 4) Provide adequate drainage to prevent water ponding.5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=952, 10=496,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down and 537 lb up at 1-2-8, 276 lb down and 102 lb up at 1-9-12, 1043 lb down at 2-3-12, 276 lb down and 102 lb up at 3-9-12, 1043 lb down at 4-3-12 276 lb down and 102 lb up at 5-9-12, 1043 lb down at 6-3-12, 276 lb down and 102 lb up at 7-9-12, 1122 lb down at 8-3-12, 1122 lb down at 9-3-12, 276 lb down and 102 lb up at 9-9-12, 1122 lb down at 11-3-12, 276 lb down and 102 lb up at 11-9-12, 1122 lb down at 13-3-12, 276 lb down and 102 lb up at 13-9-12, and 1122 lb down at 15-3-12, and 276 lb down and 102 lb up at 15-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.





2-0-0 oc purlins (6-0-0 max.): 1-8, except end verticals.

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

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\*\*Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm	٦
J0822-4192	G1-GR	  FLAT GIRDER	1		E16492065	,
30022-4132	01-01	I LAT OIRDER	'	3	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:06 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-1E0HZzuXmJPMiuImtClhglz8Kso6W8IN8v41hqy74y3

# LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 12=-276(F) 14=-255(B) 13=-291(B) 17=-5000(B) 18=-276(F) 19=-255(B) 20=-276(F) 21=-276(F) 22=-255(B) 23=-276(F) 24=-291(B) 25=-291(B) 26=-276(F) 27=-291(B) 28=-276(F) 29=-291(B) 30=-276(F)



Job Reference (optional)   Section   Section	Comtech, Inc, Fayetteville, NC - 28314,  -0-11-0 -0-11	8.43	30 s Aug 1	6 2021 MiTek Industries, Inc. Mon [	Dec 20 11:23:07 2021 Page 1
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Comtech, Inc. Fayetteville, NC - 28314, ID:1yUksKympile2042/1 MTek Industries, Inc. Mon Dec 20 11:23:07 2021 Page 1 ID:1yUksKympile2044/1ZYCrxyoKUD-VRZgmJu9XeXCK1tyQvpwDVWHMG9oFkWWNZqaDHy74y2 5-0-0 5-0-0 So-0 So-0 So-0 So-0 So-0 So-0 So-0	4.00 12		30 s Aug 1	6 2021 MiTek Industries, Inc. Mon [	
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	LOADING (psf) SPACING- 2-0-0 CSI. DEFL.	in			
TCLL 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 2-4 >999 360 MT20 244/190					244/190
TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) -0.01 2-4 >999 240			2-4		
BCLL         0.0 *         Rep Stress Incr         YES         WB 0.00         Horz(CT)         0.00         n/a n/a         Weight: 24 lb         FT = 20%		0.00		n/a n/a	
	BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Wind(LL)	0.01	2-4	>999 240 Weigh	it: 24 lb FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals.

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

REACTIONS.

(size) 2=0-3-0, 4=0-1-8 Max Horz 2=63(LC 8)

Max Uplift 2=-102(LC 8), 4=-79(LC 8) Max Grav 2=255(LC 1), 4=179(LC 1)

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

# NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
   \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=102.



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Job Truss Truss Type Qty Ply Lot 3 Hales Farm F16492067 J0822-4192 M1GE GABLE Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:07 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-VRZgmJu9XcXCK1tyQvpwDVWKGG9dFkHWNZqaDHy74y20-11-0 Scale = 1:13.8 2x4 || 3x4 \_ 4.00 12 2x4 မှ <sup>7</sup>2x4 || <sup>8</sup> 2x4 || 3x4 || 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES GRIP** in (loc) I/defl L/d 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.09 0.01 >999 240 MT20 8 TCDL 10.0 Lumber DOL 1.15 вс 0.09 Vert(CT) -0.01 8 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.02 Horz(CT) -0.00 6 n/a n/a

LUMBER-

BCDL

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

Weight: 27 lb

FT = 20%

except end verticals.

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

**REACTIONS.** (size) 2=0-3-0, 6=0-1-8

Max Horz 2=90(LC 8)

Max Uplift 2=-147(LC 8), 6=-115(LC 8) Max Grav 2=255(LC 1), 6=179(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147. 6=115.



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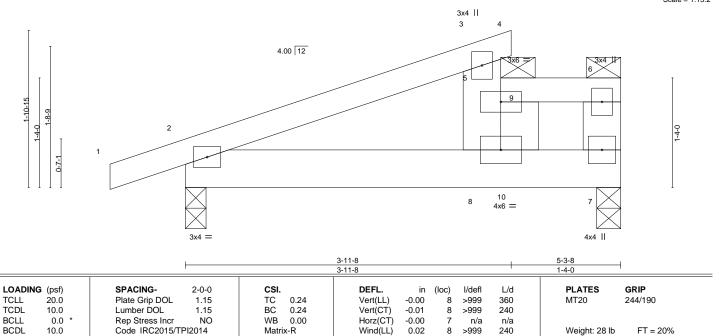
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road

Scale = 1:13.2



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=69(LC 12)

Max Uplift 7=-173(LC 8), 2=-138(LC 8) Max Grav 7=561(LC 19), 2=349(LC 1)

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

TOP CHORD 2-3=-425/505, 5-8=-279/265, 5-6=-233/338, 6-7=-292/309

0-11-0

BOT CHORD 2-8=-546/359, 7-8=-338/233

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-7-4, Interior(1) 3-7-4 to 5-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 7=173, 2=138.
- 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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: 1-3=-60, 3-4=-60, 5-9=-40, 6-9=-80, 2-7=-20

Concentrated Loads (lb) Vert: 9=-400

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 3-4=-50, 5-9=-100, 6-9=-130, 2-7=-20



Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-8, 5-6. Except:

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

10-0-0 oc bracing: 3-5

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## Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road

Job	Ply Lot 3 Hales Farm
	E16492068
J0822-4192	1   leb Deference (entional)
J0822-4192	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:08 2021 Page 2  $ID:1yUksKymplk2404ufZYCrxyoKUD-zd72\_fvnlwf3yBS8\_dK9lj3TggSc\_BmfbDZ8mjy74y1$ 

### Comtech, Inc. Fayetteville, NC - 28314, LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=-350 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 5-6=-40, 2-7=-40 Concentrated Loads (lb) Vert: 9=-300 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=70, 2-3=58, 3-4=153, 5-6=12, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-82, 2-3=-70, 3-4=-165, 3-5=-55 Concentrated Loads (lb) Vert: 9=548 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=51, 2-3=58, 3-4=51, 5-6=42, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-63, 2-3=-70, 3-4=-63, 3-5=-55 Concentrated Loads (lb) Vert: 9=566 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-3=-45, 3-4=17, 5-6=-58, 2-8=-9, 8-10=2, 7-10=-9 Horz: 1-2=-19, 2-3=25, 3-4=-37, 3-5=51 Concentrated Loads (lb) Vert: 9=-420 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-39, 2-3=-45, 3-4=-39, 5-6=-58, 2-8=-9, 8-10=2, 7-10=-9 Horz: 1-2=19, 2-3=25, 3-4=19, 3-5=51 Concentrated Loads (lb) Vert: 9=-420 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=36, 2-3=21, 3-4=14, 5-6=-11, 2-8=10, 8-10=33, 7-10=10 Horz: 1-2=-48, 2-3=-33, 3-4=-26, 3-5=7 Concentrated Loads (lb) Vert: 9=154 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=12, 3-4=28, 5-6=1, 2-7=-12 Horz: 1-2=-18, 2-3=-24, 3-4=-40, 3-5=-27 Concentrated Loads (lb) Vert: 9=43 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-33, 2-8=2, 8-10=25, 7-10=2 Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=34 Concentrated Loads (lb) Vert: 9=-339 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert; 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-21, 2-7=-20 Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=-0 Concentrated Loads (lb) Vert: 9=-234 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 2-7=-12

Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb)

Vert: 9=43

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 2-7=-12 Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 2-7=-12

Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb) Vert: 9-43

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60





Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	M2	Half Hip	2	1	E16492068
30022-4192	IVIZ	Tiali Filp	٦	'	Joh Reference (ontional)

Comtech, Inc, Fayetteville, NC - 28314,

Vert: 9=-350

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:08 2021 Page 3 ID:1yUksKymplk2404ufZYCrxyoKUD-zd72\_fvnlwf3yBS8\_dK9lj3TggSc\_BmfbDZ8mjy74y1

```
LOAD CASE(S) Standard
    Uniform Loads (plf)
            Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 2-7=-12
            Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
    Concentrated Loads (lb)
            Vert: 9=43
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-33, 2-7=-20
            Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
    Concentrated Loads (lb)
            Vert: 9=-234
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-21, 2-7=-20
            Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-234
18) Dead: Lumber Increase=0.90. Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-6=-120, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-200
19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-95, 6-9=-125, 2-8=-3, 8-10=13, 7-10=-3
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=26
    Concentrated Loads (lb)
            Vert: 9=-454
20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-9=-86, 6-9=-116, 2-7=-20
            Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-95, 6-9=-125, 2-7=-20
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
    Concentrated Loads (lb)
            Vert: 9=-375
22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-40, 2-3=-45, 3-4=-40, 5-9=-86, 6-9=-116, 2-7=-20
            Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-60, 3-4=-60, 5-6=-40, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-40, 6-9=-80, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-50, 3-4=-50, 5-6=-100, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-350
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-100, 6-9=-130, 2-7=-20
    Concentrated Loads (lb)
```

Job Truss Truss Type Qty Ply Lot 3 Hales Farm F16492069 HALF HIP J0822-4192 M2-GR Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOIwbgK4pMje0pqtJhl9y74y0 Scale = 1:13.2 3x4 II 3 4.00 12 9 -10-14 4x6 =3x4 =3x4 | 5-3-8 1-4-0 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl L/d Plate Grip DOL Vert(LL) **TCLL** 20.0 1.15 TC 0.12 -0.00 >999 360 MT20 244/190 8

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.00

8 >999

8 >999

n/a

10-0-0 oc bracing: 3-5

240

n/a

240

Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-8, 5-6. Except:

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

Weight: 55 lb

FT = 20%

LUMBER-

TCDL

**BCLL** 

**BCDL** 

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

10.0

0.0

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

Max Horz 2=69(LC 12)

Max Uplift 7=-24(LC 8), 2=-112(LC 8) Max Grav 7=710(LC 19), 2=375(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-484/446, 5-8=-334/210, 5-6=-280/291, 6-7=-390/210

BOT CHORD 2-8=-491/415, 7-8=-291/280

### NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

1.15

NO

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered 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.

вс

WB

0.14

0.00

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-7-4, Interior(1) 3-7-4 to 5-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=112.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 5-9=-160, 6-9=-200, 2-7=-20



December 20,2021

### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 properly damage. For general guidance regarding the fabrication, storage, delivery, cerection and bracing of trusses and truss systems, see 

ANSITYPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	M2-GR	HALF HIP	1		E16492069
		· · · - · · · · · ·		2	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOIwbgK4pMje0pqtJhI9y74y0

### Comtech, Inc. Fayetteville, NC - 28314, LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=-400 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 3-4=-50, 5-9=-220, 6-9=-250, 2-7=-20 Concentrated Loads (lb) Vert: 9=-350 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 5-6=-160, 2-7=-40 Concentrated Loads (lb) Vert: 9=-300 Uniform Loads (plf)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=70, 2-3=58, 3-4=153, 5-6=-108, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-82, 2-3=-70, 3-4=-165, 3-5=-55

Concentrated Loads (lb) Vert: 9=548

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=51, 2-3=58, 3-4=51, 5-6=-78, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-63, 2-3=-70, 3-4=-63, 3-5=-55

Concentrated Loads (lb) Vert: 9=566

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-1, 2-3=-45, 3-4=17, 5-6=-178, 2-8=-9, 8-10=2, 7-10=-9 Horz: 1-2=-19, 2-3=25, 3-4=-37, 3-5=51

Concentrated Loads (lb)

Vert: 9=-420

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-39, 2-3=-45, 3-4=-39, 5-6=-178, 2-8=-9, 8-10=2, 7-10=-9 Horz: 1-2=19, 2-3=25, 3-4=19, 3-5=51

Concentrated Loads (lb) Vert: 9=-420

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=36, 2-3=21, 3-4=14, 5-6=-131, 2-8=10, 8-10=33, 7-10=10 Horz: 1-2=-48, 2-3=-33, 3-4=-26, 3-5=7

Concentrated Loads (lb)

Vert: 9=154

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=6, 2-3=12, 3-4=28, 5-6=-119, 2-7=-12 Horz: 1-2=-18, 2-3=-24, 3-4=-40, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-153, 2-8=2, 8-10=25, 7-10=2

Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=34

Concentrated Loads (lb)

Vert: 9=-339

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-141, 2-7=-20

Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=-0

Concentrated Loads (lb)

Vert: 9=-234

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 2-7=-12

Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb)

Vert: 9=43

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 2-7=-12

Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 designs. 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 experts.

\*\*Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	M2-GR	HALF HIP	1		E16492069
				2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

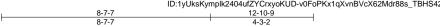
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 3 ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOlwbgK4pMje0pqtJhl9y74y0

```
LOAD CASE(S) Standard
    Uniform Loads (plf)
            Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 2-7=-12
            Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
    Concentrated Loads (lb)
            Vert: 9=43
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 2-7=-12
            Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
    Concentrated Loads (lb)
            Vert: 9=43
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-153, 2-7=-20
            Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
    Concentrated Loads (lb)
            Vert: 9=-234
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-141, 2-7=-20
            Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-234
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-6=-240, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-200
19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-215, 6-9=-245, 2-8=-3, 8-10=13, 7-10=-3
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=26
    Concentrated Loads (lb)
            Vert: 9=-454
20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-9=-206, 6-9=-236, 2-7=-20
            Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-215, 6-9=-245, 2-7=-20
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
    Concentrated Loads (lb)
            Vert: 9=-375
22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-40, 2-3=-45, 3-4=-40, 5-9=-206, 6-9=-236, 2-7=-20
            Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-60, 3-4=-60, 5-6=-160, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-160, 6-9=-200, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-50, 3-4=-50, 5-6=-220, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-350
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-220, 6-9=-250, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-350
```

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	V1GE	ROOF SPECIAL STRUCTU	1	1	E16492070
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:10 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-v0FoPKx1qXvnBVcX62Mdr88s\_TBHS42y3X2Eqby74y? 12-10-9



4x4 = Scale = 1:44.8

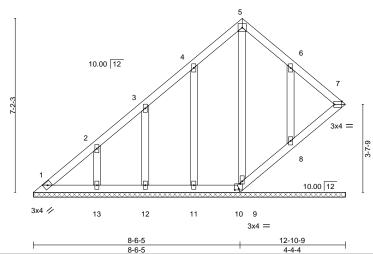


Plate Offsets (X,Y)-- [7:0-3-11,Edge], [9:0-1-6,0-1-0], [10:0-2-0,0-0-10]

LOADING TCLL TCDL	20.0 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.06 BC 0.03	DEFL. Vert(LL) Vert(CT)	n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL	0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 75 lb	FT = 20%

LUMBER-

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

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.

**REACTIONS.** All bearings 12-10-9.

(lb) - Max Horz 1=231(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10 except 11=-112(LC 12), 12=-107(LC 12), 13=-133(LC 12),

8=-126(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 9, 11, 12, 13, 8

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

TOP CHORD 1-2=-295/189

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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) Bearing at joint(s) 7, 9, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 except (jt=lb) 11=112, 12=107, 13=133, 8=126.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 8.



December 20,2021





818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4192	V2	VALLEY	1	1	E16492071
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		8.4	130 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:11 2021 Page 1

4x4 = Scale = 1:39.2

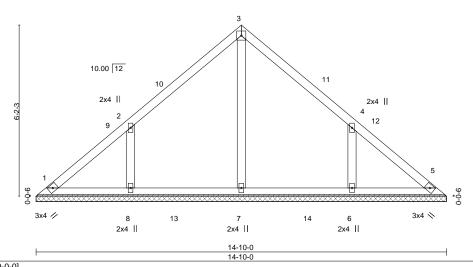


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defI L/d 20.0 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) n/a n/a 999 0.09 0.00 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 64 lb FT = 20%

LUMBER-

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

OTHERS 2x4 SP No.1

BRACING-

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.

REACTIONS. All bearings 14-10-0.

(lb) - Max Horz 1=-140(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-135(LC 12), 6=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=400(LC 19), 8=393(LC 19), 6=393(LC 20)

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

WEBS 2-8=-338/247, 4-6=-338/247

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Usind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-5-0, Exterior(2) 7-5-0 to 11-9-13, Interior(1) 11-9-13 to 14-5-3 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.
- 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=135. 6=135.



December 20,2021





Job		Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm	
10000 4400		1/0	VALLEY.			E16492072	
J0822-4192		V3	VALLEY	1	1	John Defension (entire all)	
						Job Reference (optional)	
Comtech, Inc,	Fayettev	rille, NC - 28314,		8.4	130 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:12 2021 Page 1	
			ID:1yUksKymplk2404ufZYCrxyoKUD-sONZq0yIM99VRpmvDTP5wZDAQHsqw_IFWrXLuUy74xz				

6-2-10 12-5-4 6-2-10 6-2-10

4x4 = Scale = 1:32.8

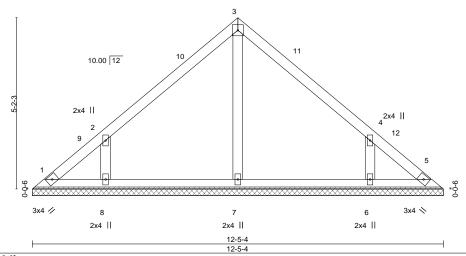


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defI L/d 20.0 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 52 lb FT = 20%

LUMBER-TOP CHORD 2x4 SP No.1 BOT CHORD 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 12-5-4.

(lb) - Max Horz 1=-116(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

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

WEBS 2-8=-312/241, 4-6=-312/241

### NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-2-10, Exterior(2) 6-2-10 to 10-7-7, Interior(1) 10-7-7 to 12-0-7 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.
- 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=123, 6=123.



December 20,2021





Job	Truss	Trus	s Туре		Qty	Ply	Lot 3 Hales F	arm	E16492073
J0822-4192	V4	VALI	LEY		1	1	Job Referenc	ce (ontional)	210402010
Comtech, Inc, F	Fayetteville, NC - 28	314,	5-0-3 5-0-3	ID:1yUk		2404ufZY0 1	16 2021 MiTek	k Industries, Inc. Mon Dec	20 11:23:14 2021 Page 1 (R5XFOuPY_90SyNy74xx
				4x4 =		·	7 0 4		Scale = 1:26.9
	6.04		00   12	2				3 *φ	
		3x4 //		4 2x4    10-0-7				3x4 📏	
				10-0-7					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACIN Plate Gri Lumber Rep Stre	ip DOL 1.15 DOL 1.15	CSI. TC 0.22 BC 0.16 WB 0.05	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT	ir n/a n/a 0.00	ı `- ı -	I/defI L/o n/a 999 n/a 999 n/a n/a	9 MT20 9	<b>GRIP</b> 244/190
BCDL 10.0		C2015/TPI2014	Matrix-S	HOIZ(CT	, 0.00	3	ıl/a II/a	Weight: 3	3 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

REACTIONS. (size) 1=10-0-7, 3=10-0-7, 4=10-0-7 Max Horz 1=-92(LC 8)

2x4 SP No.2

Max Uplift 1=-22(LC 13), 3=-30(LC 13)

Max Grav 1=197(LC 1), 3=197(LC 1), 4=344(LC 1)

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

# NOTES-

LUMBER-

**OTHERS** 

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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.

December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and it 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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see 

\*\*ANSI/TPI\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Lot 3 Hales Farm		
								E16492074
J0822-4192	V5	VALLEY		1	1			
						Job Reference (optional)		
Comtech, Inc, Fayer	teville, NC - 28314,			8	.430 s Aug	16 2021 MiTek Industries, Industries	c. Mon Dec 20 11:23:15	2021 Page 1
		3-9-		ID:TyUKSKympi	K2404UTZ Y	CrxyoKUD-Gz2hS2?Af4X4IG	OUUDYOYBIN1Utb/L/nL	pm?Upy74xw
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		3-3-	15		3-3-	15		
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LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI. in (loc) I/defl L/d TCLL Plate Grip DOL 1.15 TC Vert(LL) 244/190 20.0 0.17 n/a 999 MT20 n/a 1.15 ВС **TCDL** 10.0 Lumber DOL 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.02 Horz(CT) 0.00 3 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 28 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (size) 1=7-7-10, 3=7-7-10, 4=7-7-10

Max Horz 1=68(LC 9)

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

Max Grav 1=158(LC 1), 3=158(LC 1), 4=230(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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.



December 20,2021





Job	Truss	Truss	Туре	Qty	Ply	Lot 3 I	Hales Farm		E404000=
J0822-4192	V6	VALL	ΞY	1		1			E16492075
							eference (optional)		
Comtech, Inc, F	Fayetteville, NC - 28314,								11:23:15 2021 Page 1
			2-7-7	ID:1yUksKymp	olk2404ut∠\ 5-2	YCrxyoKl -13	JD-Gz2hS2?Af4X4I	GUUubyoYBridU	uN7LKhDpm?Upy74xw
			2-7-7		5-2- 2-7	7-6			
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		3X4 1/		2x4		3x4 `	<b>'</b>		
				5-2-13					
				5-2-13					
LOADING (nof)	SDACING	200	CCI	DEFL.	in (lo-)	I/dof	1 /d	DLATEC	CDID
LOADING (psf) TCLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.07		in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TODL 40.0	Flate Glip DOL	1.15	10 0.07		11/a -	11/a	999	IVIIZU	244/130

LUMBER-

TCDL

**BCLL** 

BCDL

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

10.0

0.0

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

n/a

3 n/a

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins.

Weight: 19 lb

FT = 20%

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

999

n/a

(size) 1=5-2-13, 3=5-2-13, 4=5-2-13 Max Horz 1=-44(LC 8) REACTIONS.

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

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=102(LC 1), 3=102(LC 1), 4=149(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

вс 0.04

WB

0.01

- 3) Gable requires continuous bottom chord bearing.

1.15

YES

- 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.



December 20,2021





Job	Truss	Truss	Гуре		Qty	Ply	Lot 3 F	Hales Farm		
10000 4400	–	.,,,,,				١.				E16492076
J0822-4192	V7	VALLE	:Y		1	1	lob Do	eference (optional)		
Comtech, Inc, F	ayetteville, NC - 28314,				8.4	130 s Aug			Inc. Mon Dec 20	11:23:16 2021 Page 1
Contecti, inc,	ayetteville, 140 - 20014,			ID:1vl						CuEfsolrRTVZ1Fy74xv
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		3x4 //			3x4					
		384 1/			384	ν.				
				2-10-0						
				2-10-0						
Plate Offsets (X,Y)	[2:0-2-0,Edge]									
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.01 BC 0.03	DEFL. Vert(LL) Vert(CT)	in n/a n/a	` <u>-</u>	I/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code IRC2015/T	YES PI2014	WB 0.00 Matrix-P	Horz(CT)	0.00	3	n/a	n/a	Weight: 8 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 2-10-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-10-0, 3=2-10-0 Max Horz 1=-20(LC 8)

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

Max Grav 1=81(LC 1), 3=81(LC 1)

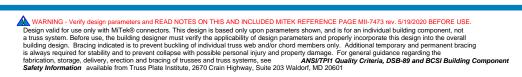
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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.



December 20,2021



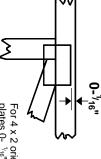


### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates This symbol indicates the

\* Plate location details available in MiTek 20/20 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



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

### BEARING



number where bearings occur.

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

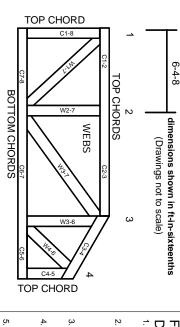
### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-89:

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

## **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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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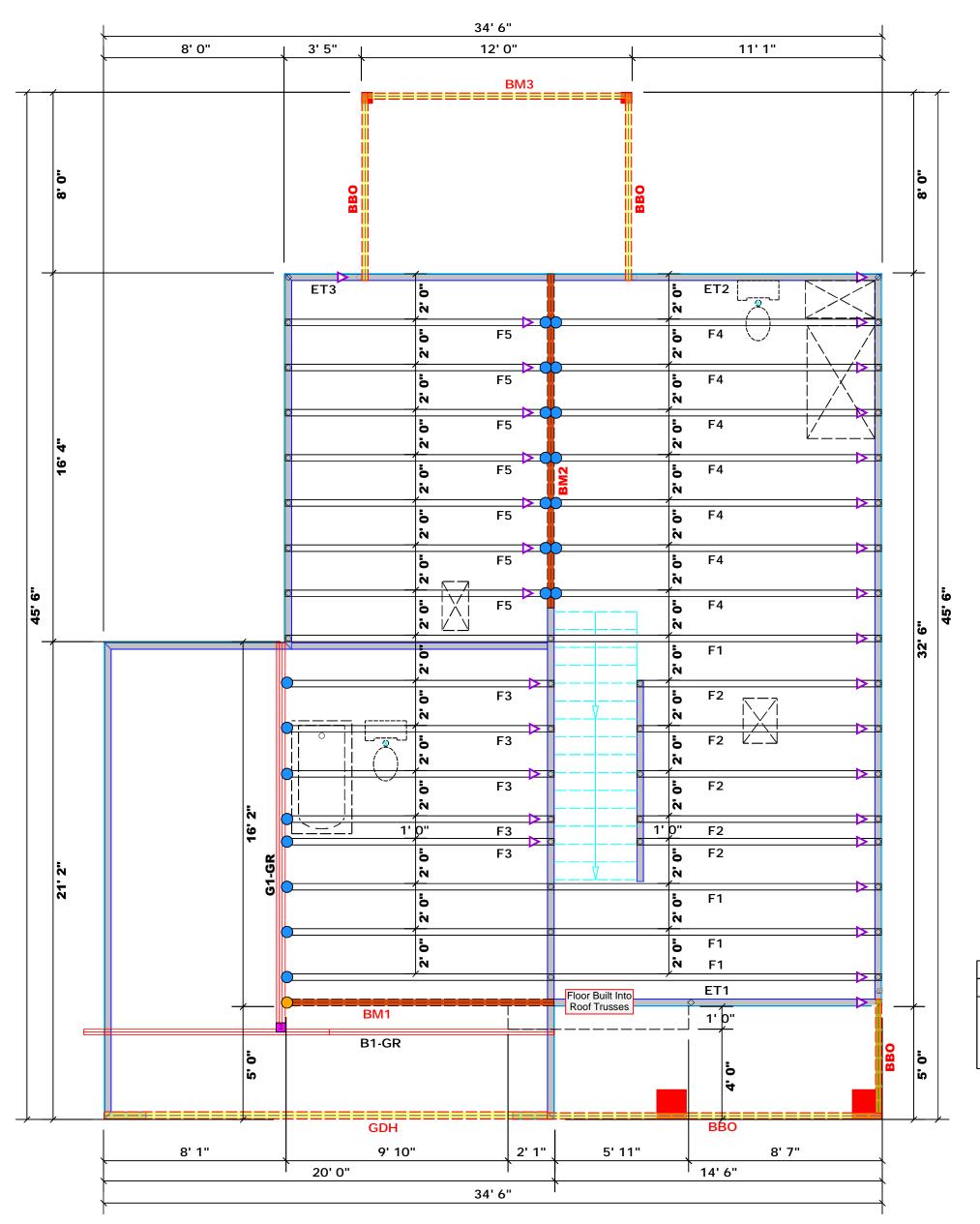


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **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
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- 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.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. 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 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.



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

### All Walls Shown Are Considered Load Bearing

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 24"oc.

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	22	NA	16d/3-1/2"	16d/3-1/2"
	THDH412	USP	1	NA	16d /3-1/2"	16d /3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan
Scale: 1/4"=1'

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

David Landry

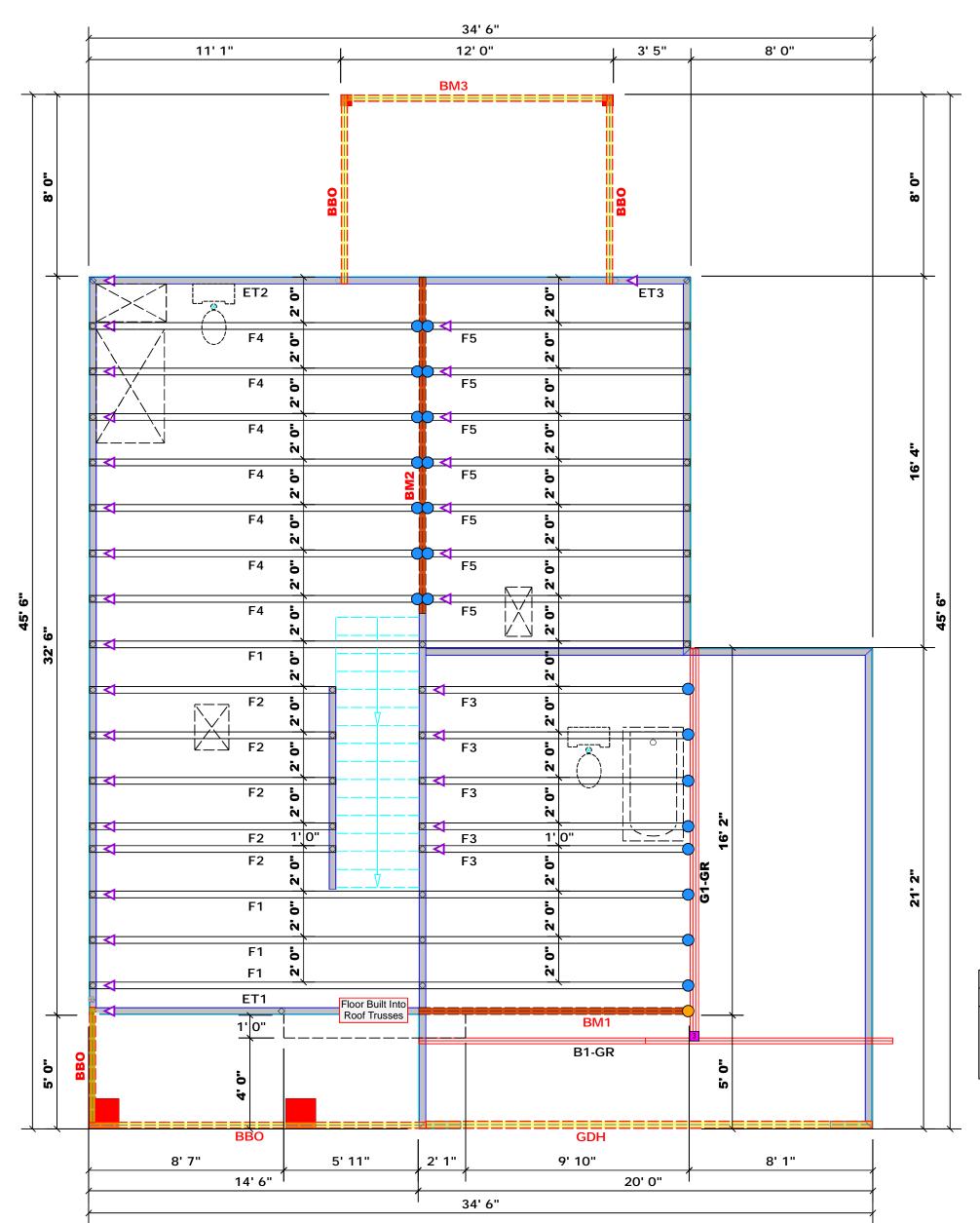
David Landry

LO.	AD 6	CHAI	RTFO	R J	ACK :	STUD	5			
	(BASED ON TABLES 8502 5(1) & (b)) NUMBER OF JACK STUDS REQUIRED ⊕ EA END OF									
NU	MBER C		STUDS R HEADER/Y			A END OF				
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ16 STUDS FOR (3) PLY HEADER		END RENCTION (UP TO)	REQ15 STUDS FOR (4) RLY HEADER			
1700	1		2550	1		3400	1			
3400	2		5100	2		6800	2			
5100	3		7650	3		10200	3			
6800	4		10200	4		13600	4			
8500	5		12750	5		17000	5			
10200	6		15300	6						
11900	7									
13600	8									
15300	9									

ı					1	,
THIS IS	BUILDER	Weaver Development Co. Inc.	CI TY / CO.	CI TY / CO.   Lillington / Harnett	8500 0200 1900 3600 5300	6800
A TRUS	JOB NAME	JOB NAME Lot 3 Hales Farm	ADDRESS	NC 27 West	5 6 7 8 9	4
SPLACEN	PLAN	Hickory II "C" / 2GLF, CP	MODEL	Floor	12750 15300	10200
IENT DIA	SEAL DATE N/A	N/A	DATE REV.	08/18/22	5	4
GRAM ON	QUOTE #		DRAWN BY	David Landry	170	1360
ILY.	JOB #	J0822-4193	SALES REP.	SALES REP. Lenny Norris		00 4

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

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



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 frame wall unless noted otherwise

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

### All Walls Shown Are Considered Load Bearing

	Plumbing Drop Notes
	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 24"oc.

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	22	NA	16d/3-1/2"	16d/3-1/2"
	THDH412	USP	1	NA	16d /3-1/2"	16d /3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan
Scale: 1/4"=1'



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 Cod requirements ) to determine the minimum foundatio size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attache Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500#.

gnature David Landry

David Landry

LO.	AD (	HAL	RIFO	R J	ACK :	STUD	5
	(8.	ASED O	N TABLE:	S R502	5(1) 4 (1	o())	
NU	MBER C		STUDS R HEADER/G			A END OF	
END REACTION (UP TO)	REQ'D STUDS FOR		SND REACTION (UP TO)	REQ15 STUDS FOR (3) PLY HEADER		END REACTION (OT 9U)	REQ'D STUDS FOR (4) PLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
10200	6		15300	6			
11900	7						
13600	8						
15300							

I					
THIS IS	BUILDER	Weaver Development Co. Inc.	CI TY / CO.	CITY / CO. Lillington / Harnett	10200 11900 13600 15300
A TRUS		JOB NAME Lot 3 Hales Farm	ADDRESS	NC 27 West	6 7 8 9
S PLACEN	PLAN	Hickory II "C" / 2GLF, CP	MODEL	Floor	15300
IENT DIA	SEAL DATE N/A	N/A	<b>DATE REV.</b> 08/18/22	08/18/22	0 6
GRAM ON	QUOTE #		DRAWN BY	DRAWN BY David Landry	
ILY.	JOB#	J0822-4193	SALES REP.	SALES REP. Lenny Norris	

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

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



Client: Weaver Development

Project: Hickory II Address:

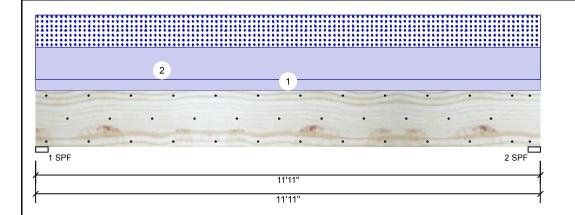
NC 27 West Lillington, NC 27546

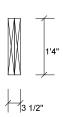
8/18/2022 Date:

Input by: David Landry Job Name: Lot 3 Hales Farm J0822-4192 Project #:

### 1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM1

Level: Level





Page 1 of

### **Member Information**

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code:** IBC/IRC 2015

Load Sharing: Deck:

Not Checked Ceiling: Gypsum 1/2"

### **Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2869	2079	0	0
2	Vertical	0	2869	2079	0	0

### Bearings

Bearing Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500"	Vert	95%	2869 / 2079	4948	L	D+S
2 - SPF 3.500"	Vert	95%	2869 / 2079	4948	L	D+S

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13679 ft-lb	5'11 1/2"	39750 ft-lb	0.344 (34%)	D+S	L
Unbraced	13679 ft-lb	5'11 1/2"	13699 ft-lb	0.999 (100%)	D+S	L
Shear	3615 lb	1'7 1/2"	13739 lb	0.263 (26%)	D+S	L
LL Defl inch	0.069 (L/2000)	5'11 1/2"	0.287 (L/480)	0.240 (24%)	S	L
TL Defl inch	0.164 (L/840)	5'11 1/2"	0.383 (L/360)	0.428 (43%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 8'8 3/8" o.c.
- 7 Lateral slenderness ratio based on single ply width

	. Eatoral oloniao	inioco ratio bacca cir cirigio	p.,								
ī	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
-	1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	2	Uniform			Тор	349 PLF	0 PLF	349 PLF	0 PLF	0 PLF	A2
		Self Weight				12 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

### chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

28314 910-864-TRUS







Client: Weaver Development

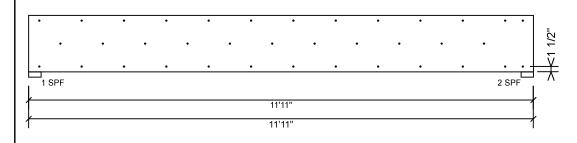
Project: Hickory II Address:

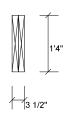
NC 27 West Lillington, NC 27546

Date: 8/18/2022 Input by: David Landry

Job Name: Lot 3 Hales Farm J0822-4192 Project #:

**Kerto-S LVL** 1.750" X 16.000" BM1 2-Ply - PASSED Level: Level





Page 2 of

### **Multi-Ply Analysis**

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 245.6 PLF Yield Limit per Fastener 81.9 lb. IV Yield Mode Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Metsä Wood

Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC USA 28314 910-864-TRUS







Weaver Development Client:

Project: Hickory II Address: NC 27 West

Lillington, NC 27546

8/18/2022 Date:

Input by: David Landry Job Name: Lot 3 Hales Farm Project #: J0822-4192

Page 3 of

Wind

0

0

n

0

Total Ld. Case

5254 L

5254 L

Const

Ld. Comb.

D+L

D+L

0

0

### **Kerto-S LVL** 1.750" X 16.000" 2-Ply - PASSED BM<sub>2</sub>

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Dir.

Vert

Vert

Cap. React D/L lb

1385 / 3868

1385 / 3868

51%

51%

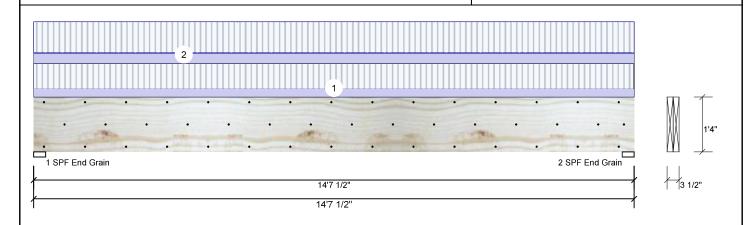
Bearing Length

1 - SPF 3.500"

2 - SPF 3.500"

Fnd Grain

End Grain



### Girder Floor Application: Brg Direction Live Dead Snow Type: Plies: Design Method: ASD 3868 1385 1 Vertical Moisture Condition: Dry **Building Code:** IBC/IRC 2015 3868 1385 2 Vertical Deflection LL: 480 Load Sharing: Deflection TL: 360 Deck: Not Checked Normal - II Importance: Ceiling: Gypsum 1/2" Temp <= 100°F Temperature: **Bearings**

### **Analysis Results**

**Member Information** 

l	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Moment	18077 ft-lb	7'3 3/4"	34565 ft-lb	0.523 (52%)	D+L	L
	Unbraced	18077 ft-lb	7'3 3/4"	18085 ft-lb	1.000 (100%)	D+L	L
l	Shear	5044 lb	1'7 1/2"	11947 lb	0.422 (42%)	D+L	L
l	LL Defl inch	0.229 (L/743)	7'3 13/16"	0.355 (L/480)	0.646 (65%)	L	L
ı	TL Defl inch	0.311 (L/547)	7'3 13/16"	0.473 (L/360)	0.658 (66%)	D+L	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at a maximum of 6'5 1/8" o.c.

O Lateral Stellus	sificas ratio based off sifigle	pry widin.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	79 PLF	235 PLF	0 PLF	0 PLF	0 PLF	F5
2	Uniform			Far Face	98 PLF	294 PLF	0 PLF	0 PLF	0 PLF	F4
	Self Weight				12 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

### chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood (800) 622-5850 www.metsawood.com/us

Manufacturer Info

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 28314 910-864-TRUS







BM<sub>2</sub>

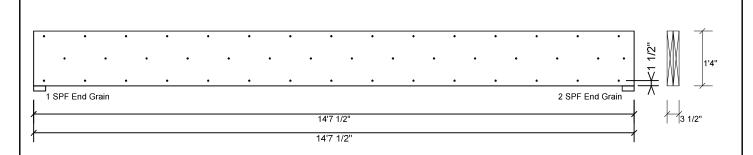
Client: Weaver Development

Project: Hickory II Address: NC 27 West

8/18/2022 Date: Input by: David Landry Job Name: Lot 3 Hales Farm

Lillington, NC 27546 Project #: **Kerto-S LVL** 1.750" X 16.000" 2-Ply - PASSED

J0822-4192 Level: Level



### **Multi-Ply Analysis**

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 79.8 % 196.0 PLF Load Yield Limit per Foot 245.6 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" D+L Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

www.metsawood.com/us

Manufacturer Info

Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC USA 28314 910-864-TRUS



Page 4 of





Client: Weaver Development Project: Hickory II

Address: NC 27 West Lillington, NC 27546

8/18/2022 Date: Input by: David Landry

Job Name: Lot 3 Hales Farm J0822-4192 Project #:

Page 5 of

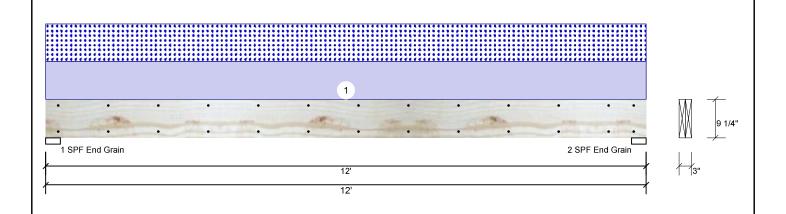
S-P-F #2 **BM3** 

2.000" X 10.000"

2-Ply - PASSED

Level: Level

**Reactions UNPATTERNED lb (Uplift)** 



Type:	Girder	Application:	Floor		Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD		1	Vertical	0	564	564	0	0
Moisture Cond	lition: Dry	Building Code:	IBC/IRC 2015		2	Vertical	0	564	564	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	360	Deck:	Not Checked								
Importance:	Normal - II	Ceiling:	Gypsum 1/2"								
Temperature:	Temp <= 100°F										
					Bear	ings					
					Bea	ring Length	Dir.	Cap. React D/L	lb Total	Ld. Case	Ld. Comb.
					1 - S End	SPF 3.500" I	Vert	25% 564 / 56	64 1128	L	D+S
Analysis Re	sults				Gra	in					
Analysis Moment	Actual Location 3130 ft-lb 6'	•	ity Comb. 79%) D+S	Case L	2 - S End Gra		Vert	25% 564 / 56	34 1128	L	D+S

L

### LL Defl inch 0.135 (L/1022) TL Defl inch 0.271 (L/511)

Unbraced

**Member Information** 

**Design Notes** 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

6' 3131 ft-lb

10'11 1/4" 2872 lb

1.000

(100%)

6' 0.289 (L/480) 0.470 (47%) S

6' 0.385 (L/360) 0.704 (70%) D+S

0.323 (32%) D+S

D+S

- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.

3130 ft-lb

928 lb

- 6 Top must be laterally braced at a maximum of 8'8 11/16" o.c.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	94 PLF	0 PLF	94 PLF	0 PLF	0 PLF	C1

This design is valid until 11/3/2024

Manufacturer Info соттесн



Client: Weaver Development
Project: Hickory II

Address: NC 27 West Lillington, NC 27546 Date: 8/18/2022
Input by: David Landry
Job Name: Lot 3 Hales Farm

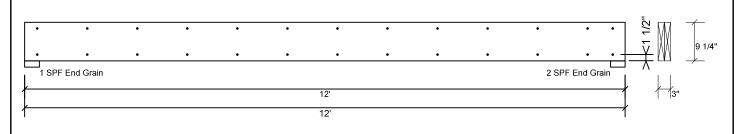
Page 6 of

BM3 S-P-F #2

2.000" X 10.000"

2-Ply - PASSED

Project #: J0822-4192 Level: Level



This design is valid until 11/3/2024

### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

0.0 % Capacity 0.0 PLF Load Yield Limit per Foot 157.4 PLF Yield Limit per Fastener 78.7 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination 1.00 Duration Factor

Manufacturer Info

Comtech, Inc,
Lot 35 Briarwood Bluff
Broadway, NC
USA
28314
910-864-TRUS



Client: Weaver Development

Project: Hickory II Address: NC 27 West

8/18/2022 Date: Input by: David Landry Job Name: Lot 3 Hales Farm

Lillington, NC 27546 Project #: **Kerto-S LVL** 1.750" X 14.000" 2-Ply - PASSED **GDH** 

Level: Level

Reactions UNPATTERNED Ib (Uplift)

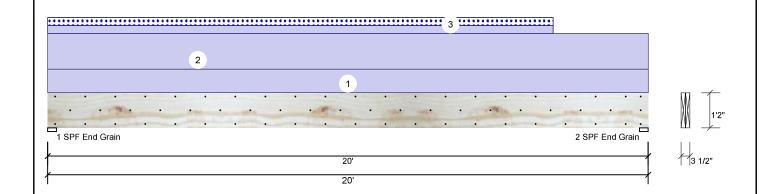
Vert

18%

1750 / 141

1891 L

J0822-4192



### Girder Floor Live Application: Brg Direction Dead Type: Snow Plies: Design Method: ASD 1804 Vertical 0 196 Moisture Condition: Dry **Building Code:** IBC/IRC 2015 0 1750 Vertical 141 Deflection LL: 480 Load Sharing: Deflection TL: 360 Deck: Not Checked Importance: Normal - II Ceiling: Gypsum 1/2" Temp <= 100°F Temperature: Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case 1 - SPF 3.500" Vert 19% 1804 / 196 2000 L Fnd

### **Analysis Results**

**Member Information** 

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8592 ft-lb	9'11 11/16"	24299 ft-lb	0.354 (35%)	D	Uniform
Unbraced	9503 ft-lb	9'11 1/2"	9509 ft-lb	0.999 (100%)	D+S	L
Shear	1553 lb	1'5 1/2"	9408 lb	0.165 (17%)	D	Uniform
LL Defl inch	0.041 (L/5726)	9'11 1/16"	0.489 (L/480)	0.084 (8%)	S	L
TL Defl inch	0.430 (L/546)	9'11 7/8"	0.651 (L/360)	0.660 (66%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 11'9 1/16" o.c.

7 Lateral slende	erness ratio based on	single ply width.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Тор	90 PLF	0 PLF	0 PLF	0 PLF	0 PLF	B1GE
3	Tie-In	0-0-0 to 16-10-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load
	Self Weight				11 PLF					

Grain

End Grain

2 - SPF 3.500"

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

### Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info



Page 7 of

Wind

0

0

Const

Ld. Comb.

D+S

D+S

0

0





Client: Weaver Development

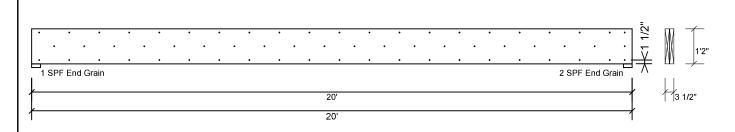
Project: Hickory II Address: NC 27 West

8/18/2022 Date: Input by: David Landry Job Name: Lot 3 Hales Farm

Lillington, NC 27546

**Kerto-S LVL** 1.750" X 14.000" 2-Ply - PASSED **GDH** 

J0822-4192 Project #: Level: Level



### **Multi-Ply Analysis**

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 245.6 PLF Yield Limit per Fastener 81.9 lb. IV Yield Mode Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design ortieria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

### Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

### Handling & Installation

Handling & Installation

1. LVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

Manufacturer Info

www.metsawood.com/us

Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC USA 28314 910-864-TRUS



Page 8 of





RE: J0822-4193 Lot 3 Hales Farm Trenco

818 Soundside Rd Edenton, NC 27932

### Site Information:

Customer: Weaver Development Project Name: J0822-4193 Lot/Block: 3 Model: Hickory II

Address: NC 27 West Subdivision: Hales Farm

City: Lillington State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

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

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16492077	ET1	12/20/2021
2	E16492078	ET2	12/20/2021
3	E16492079	ET3	12/20/2021
4	E16492080	F1	12/20/2021
5	E16492081	F2	12/20/2021
6	E16492082	F3	12/20/2021
7	E16492083	F4	12/20/2021
8	E16492084	F5	12/20/2021

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Strzyzewski, Marvin

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



December 20, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4193	ET1	GABLE	1	,	E16492077
J0822-4193	E11	GABLE	'	'	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:32 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-ztld3Ofsex34VCHpSApf8n2cuLiuc12C7yNPbKy74xf

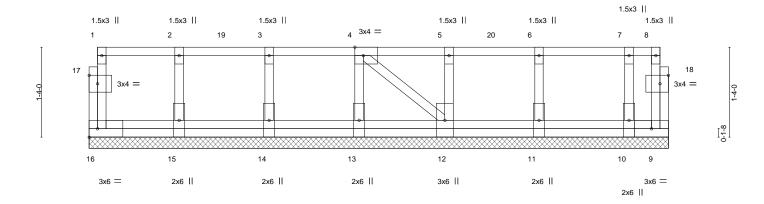
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0\_1\_8 0\_1\_8

Scale: 3/4"=1'



		1-4-0	2-8-0	4-0-0	5-4-0			6-8-0	- 1	8-0-0 , 8	3-7-0
	-	1-4-0	1-4-0	1-4-0	1-4-0	- 1		1-4-0	'	1-4-0 0	)-7-0
Plate Offset	s (X,Y)	[4:0-1-8,Edge], [17:0-	-1-8,0-1-8], [18:0-1-8	3,0-1-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 4	40.0	Plate Grip DOI	L 1.00	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Inc	or YES	WB 0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code IRC201	5/TPI2014	Matrix-P						Weight: 54 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 8-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

### NOTES-

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

### LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb)

Vert: 4=-71 7=-77 19=-71 20=-71



December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4193	ET2	GABLE	1	1	E16492078
					Job Reference (ontional)

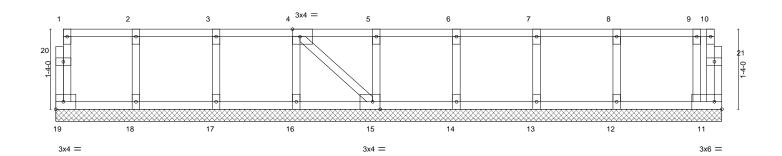
Comtech, Inc, Fayetteville, NC - 28314,

0,1,8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:33 2021 Page 1

 $ID:1yUksKymplk2404ufZYCrxyoKUD-R4J?HkgUPEBx7Ms00uKug\_boBl2\_LURLLc7y7my74xe$ 

Scale = 1:18.0



1-4-0	2-8-0	4-0-0		5-4-0	6-8-0			8-0-0	1	9-4-0		10-8-0	11-1-0
1-4-0	1-4-0	1-4-0		1-4-0	1-4-0	- 1		1-4-0	-	1-4-0	· ·	1-4-0	0-5-0
Plate Offsets (X,Y)	[4:0-1-8,Edge], [15:0-1-8	3,Edge]											
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.00 1.00 YES PI2014	CSI. TC BC WB Matr	0.06 0.01 0.03 ix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a		PLATES MT20 Weight: 54 lt	<b>GRIP</b> 244/190	20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

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

2x4 SP No.3(flat) OTHERS

**BRACING-**TOP CHORD BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 11-1-0.

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

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.



December 20,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm				
					E164920	79			
J0822-4193	ET3	GABLE	1	1					
					Job Reference (optional)				
Comtech, Inc,	Fayetteville, NC - 28314,	·	8.4	430 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:33 2021 Page 1				
		ID:1vLlksKvmplk2404uf7VCrvvoKLID-R4 I2HkaLIPERv7Ms00uKua, boNI24LLIWLLc7v7mv74vs							

3x4 = 0-1-8 1 3x4 || 2 1.5x3 || 3 4 1.5x3 || Scale = 1:9.4 8 7 6 5 3x4 = 1.5x3 || 3x4 = 3x4 II

Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [3:0-1-8,E	±dge], [7:0-1-8,	,Edge], [8:Ed	ige,0-1-8j, [9	1:0-1-8,0-1-8]						
LOADING	(1 - /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 22 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

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

REACTIONS.

ONS. All bearings 3-5-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 3-5-0 oc purlins,

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

except end verticals.

December 20,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4193	E1	Floor	4	1	E16492080
30022-4193	FI	FIOOI	4	'	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:34 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-vGtNU4g6AYJokWRCabr7DC8rM9CS4rLUaGsWfCy74xd

0-1-8

HI 1-3-0 1-6-4

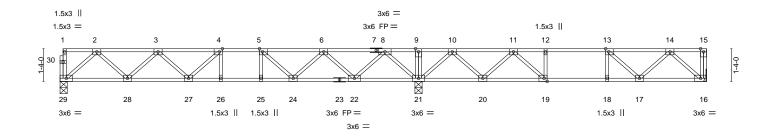
2-4-12

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

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

except end verticals.

0-1-8 Scale = 1:44.3



			14-7-12				26-5-0					
			14-7-12				11-9-4					
Plate Offse	Plate Offsets (X,Y) [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [19:0-1-8,Edge]											
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.10 26-27	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.13 26-27	>999	360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03 16	n/a	n/a			
BCDL	5.0	Code IRC2015/TPI2	2014	Matrix	:-S					Weight: 136 lb	FT = 20%F, 11%E	

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

(size) 29=0-3-8, 16=Mechanical, 21=0-3-8

Max Grav 29=727(LC 10), 16=1063(LC 4), 21=1671(LC 1)

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

TOP CHORD 15-16=-537/0, 2-3=-1257/0, 3-4=-1883/0, 4-5=-2002/0, 5-6=-1658/0, 6-8=-756/225,

8-9=0/1401, 9-10=0/1401, 10-11=-468/367, 11-12=-1158/0, 12-13=-1158/0, 13-14=-884/0

BOT CHORD 28-29=0/771, 27-28=0/1717, 26-27=0/2002, 25-26=0/2002, 24-25=0/2002,

22-24=-34/1340, 21-22=-444/147, 20-21=-637/19, 19-20=-175/900, 18-19=0/1158,

17-18=0/1158, 16-17=0/586

**WEBS** 2-29=-1023/0, 2-28=0/677, 3-28=-640/0, 8-21=-1289/0, 14-16=-780/0, 14-17=0/415,

13-17=-372/90, 10-21=-1064/0, 8-22=0/923, 6-22=-882/0, 6-24=0/527, 5-24=-633/0,

10-20=0/687, 11-20=-690/0, 11-19=0/582, 12-19=-278/0

### NOTES-

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

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 16-29=-10, 1-15=-100

Concentrated Loads (lb) Vert: 15=-500

Lecturative

December 20,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® 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 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
J0822-4193	E2	Floor	5	1	E16492081
30022-4193	12	1 1001		'	Job Reference (optional)

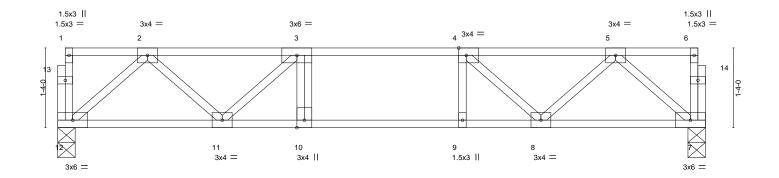
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:35 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-NSRliPhkxsRfMg007JMMmPg20YcQpL7epwc3Cfy74xc

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

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

except end verticals.



10-10-0 10-10-0												
Plate Offsets (X,Y) [4:0-1-8,Edge]												
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.07	`1Ó	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.09	10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	12014	Matri	x-S						Weight: 57 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)

WEBS 2x4 SP No.3(flat)

**REACTIONS.** (size) 12=0-3-8, 7=0-3-8

Max Grav 12=576(LC 1), 7=576(LC 1)

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

TOP CHORD 2-3=-923/0, 3-4=-1242/0, 4-5=-925/0

BOT CHORD 11-12=0/606, 10-11=0/1242, 9-10=0/1242, 8-9=0/1242, 7-8=0/603 WEBS 2-12=-805/0, 2-11=0/441, 3-11=-469/0, 5-7=-800/0, 5-8=0/449, 4-8=-475/0

### 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) 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.



December 20,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
10000 4400	E2		_	,	E16492082
J0822-4193	F3	Floor	5	1	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

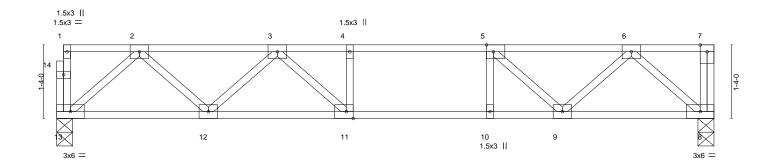
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:36 2021 Page 1  $ID:1yUksKymplk2404ufZYCrxyoKUD-sf?7vliMi9ZW\_qbbh0tbldD90yvzYnZn2aLck5y74xb$ 

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

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

except end verticals.





				11-11-0	<u> </u>
Plate Offs	sets (X,Y)	[5:0-1-8,Edge], [11:0-1-8,Edge]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.ó	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.13 11-12 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.16 11-12 >894 360	
BCLL	0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.02 8 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 62 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

11-11-0

LUMBER-

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

WFBS

2x4 SP No.3(flat)

REACTIONS. (size) 13=0-3-8, 8=0-3-8

Max Grav 13=635(LC 1), 8=1142(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 7-8=-548/0, 2-3=-1060/0, 3-4=-1495/0, 4-5=-1495/0, 5-6=-1059/0 12-13=0/676, 11-12=0/1395, 10-11=0/1495, 9-10=0/1495, 8-9=0/659 **BOT CHORD WEBS** 2-13=-898/0, 2-12=0/534, 3-12=-466/0, 3-11=-19/356, 6-8=-877/0, 6-9=0/557,

5-9=-616/0

### NOTES-

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

### LOAD CASE(S) Standard

Vert: 7=-500

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 8-13=-10. 1-7=-100 Concentrated Loads (lb)



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, rerection and bracing of trusses and truss systems, see 

\*\*AMSUTPH\*\* Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Hales Farm
10000 4400	E4	Flores	_		E16492083
J0822-4193	F4	Floor	'	1	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:36 2021 Page 1  $ID:1yUksKymplk24\widetilde{0}4ufZYCrxyoKUD-sf?7vliMi9ZW\_qbbh0tbldD9fyteYmHn2aLck5y74xb$ 

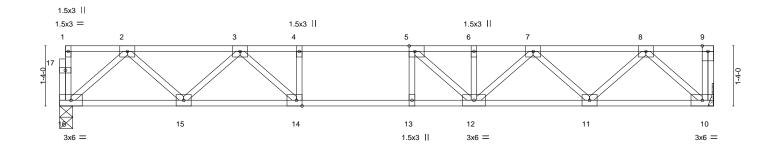
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale: 1/2"=1'



1						14-6-0					1
						14-6-0					
Plate Offse	ets (X,Y)	[5:0-1-8,Edge], [14:0-1-8,	Edgel								
		1									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.17 12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.22 12-13	>790	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03 10	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	12014	Matri	x-S					Weight: 76 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

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

Max Grav 16=778(LC 1), 10=784(LC 1)

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

TOP CHORD 2-3=-1348/0, 3-4=-2244/0, 4-5=-2244/0, 5-6=-2152/0, 6-7=-2152/0, 7-8=-1359/0 **BOT CHORD**  $15 - 16 = 0/834,\ 14 - 15 = 0/1856,\ 13 - 14 = 0/2244,\ 12 - 13 = 0/2244,\ 11 - 12 = 0/1857,\ 10 - 11 = 0/835$ **WEBS** 

2-16=-1109/0, 2-15=0/714, 3-15=-707/0, 3-14=0/697, 4-14=-339/0, 8-10=-1111/0,

 $8\text{-}11\text{=}0/729,\, 7\text{-}11\text{=}\text{-}693/0,\, 7\text{-}12\text{=}0/401,\, 5\text{-}12\text{=}\text{-}438/123$ 

### 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.



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Truss Type	Qty P	ly	Lot 3 Hales Farm	
	_		E164920	)84
Floor		1	lab Deference (entional)	
			Job Reference (optional)	
	8.430	0 s Aug 1	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:37 2021 Page 1	
	Truss Type Floor	Floor 7	Floor 7 1	E164920

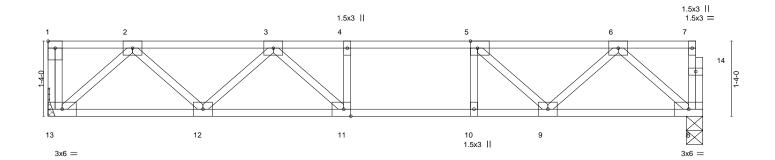
 $ID:1yUksKymplk2404ufZYCrxyoKUD-KrZW65j\_TThNczAnFkOrrqmNBMHHHF2xGE5AGXy74xa$ 2-1-8 0118

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

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

except end verticals.

Scale = 1:19.3



[1:Edge,0-1-8], [5:0-1-8,Edge], [11:0-1-8,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 (loc) I/defl L/d TCLL 1.00 -0.10 11-12 244/190 40.Ó Plate Grip DOL TC 0.44 Vert(LL) >999 480 MT20 TCDL ВС 10.0 Lumber DOL 1.00 0.56 Vert(CT) -0.13 11-12 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.02 n/a BCDL Code IRC2015/TPI2014 Matrix-S Weight: 61 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

1-3-0

REACTIONS. (size) 13=Mechanical, 8=0-3-8 Max Grav 13=626(LC 1), 8=619(LC 1)

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

TOP CHORD 2-3=-1025/0, 3-4=-1427/0, 4-5=-1427/0, 5-6=-1022/0

**BOT CHORD**  $12\text{-}13\text{=}0/658,\ 11\text{-}12\text{=}0/1345,\ 10\text{-}11\text{=}0/1427,\ 9\text{-}10\text{=}0/1427,\ 8\text{-}9\text{=}0/644$ **WEBS** 

2-13=-876/0, 2-12=0/510, 3-12=-446/0, 3-11=-41/323, 6-8=-854/0, 6-9=0/526,

5-9=-570/0

### NOTES-

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



December 20,2021



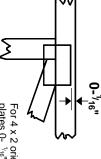


### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates This symbol indicates the

\* Plate location details available in MiTek 20/20 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



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

### BEARING



number where bearings occur.

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

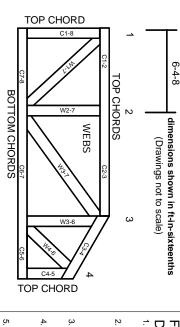
### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-89:

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

## **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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **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
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- 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.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. 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 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.