

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

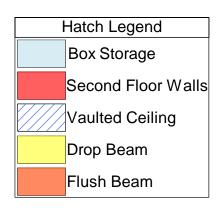
> All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Roof Area = 1645.35 sq.ft. Ridge Line = 51.18 ft. Hip Line = 29.16 ft. Horiz. OH = 156.42 ft.Raked OH = 105.22 ft. Decking = 57 sheets

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

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



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

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM2	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

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

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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

ned to comply with the prescriptive Code irements. The contractor shall refer to the hed Tables (derived from the prescriptive Co irements) to determine the minimum foundation and number of wood studs required to support ns greater than 3000# but not greater than . A registered design professional shall be d to design the support system for any n that exceeds those specified in the attact

Jonathan Landry Jonathan Landry

Wellco Contractors	CITY / CO.	CITY / CO. Johnston Co. / Johnston
Lot 13 Overhills Creek	ADDRESS	69 Onslow Court
Plan 14 / 26LF	MODEL	Roof
N/A	DATE REV.	04/16/24
	DRAWN BY	DRAWN BY Jonathan Landry
J0424-2212	SALES REP.	SALES REP. Lenny Norris

JOB NAME SEAL DATE BUILDER QUOTE; 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



RE: J0424-2212

Lot 13 Overhills Creek

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Wellco Constructors Project Name: J0424-2212 Lot/Block: 13 Model: Plan 14

Address: 69 Onslow Court Subdivision: Overhills Creek

City: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 150 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	164946155	A1	4/17/2024
2	164946156	A1GE	4/17/2024
3	164946157	A2	4/17/2024
4	164946158	A2GE	4/17/2024
5	164946159	B1	4/17/2024
6	164946160	B1SG	4/17/2024
7	164946161	B2	4/17/2024
8	164946162	B2-GR	4/17/2024
9	164946163	C1	4/17/2024
10	164946164	C1GE	4/17/2024
11	164946165	M1	4/17/2024
12	164946166	M1-GR	4/17/2024
13	164946167	M2	4/17/2024
14	164946168	M2GE	4/17/2024
15	164946169	M3	4/17/2024
16	164946170	V1	4/17/2024
17	164946171	V2	4/17/2024
18	164946172	V3	4/17/2024

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: Gilbert, Eric

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

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.



April 17, 2024

Job Truss Truss Type Qty Lot 13 Overhills Creek 164946155 COMMON J0424-2212 Α1 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:21 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-11-4 25-10-8 7-11-4 5-0-0 5-0-0 7-11-4 Scale = 1:56.7 4x6 = 6

2x4 6x6 / 6x6 / 21	2x4 = 2x4 = 7	23 2x4 8 6x6 > 9
0 12 0 17 0 18 0 18 0 18 0 18 0 18 0 18 0 18	14 13	12
4x6 =	3x10 = 4x6 = 4x6 = 4x6 = 6x6 =	3x10 = 4x6 =
7-11-4 7-11-4	17-11-4 10-0-0	25-10-8 7-11-4
Plate Offsets (X,Y) [3:0-3-0,Edge], [6:0-3-0,Edge], [9:0-3-0,E	Edge]	

SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.20 12 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.52 Vert(CT) -0.30 12-14 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.90 Horz(CT) 0.02 10 n/a n/a

Matrix-AS

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.24 14-17

>999

Rigid ceiling directly applied.

240

Structural wood sheathing directly applied.

LUMBER-

BCDL

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

10.0

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

Max Horz 2=-291(LC 10) Max Uplift 2=-193(LC 12), 10=-193(LC 13) Max Grav 2=1257(LC 19), 10=1257(LC 20)

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2-4=-1733/486,\ 4-5=-1244/543,\ 5-6=-96/423,\ 6-7=-96/424,\ 7-8=-1244/543,$ TOP CHORD

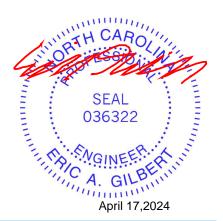
8-10=-1735/486

BOT CHORD 2-14=-192/1344, 12-14=-195/1345, 10-12=-192/1344

WEBS 8-12=0/562, 4-14=0/559, 5-7=-1842/742

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-11-4, Exterior(2) 12-11-4 to 17-4-1, Interior(1) 17-4-1 to 26-7-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 193 lb uplift at
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 25%

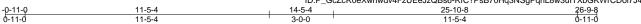
Weight: 185 lb

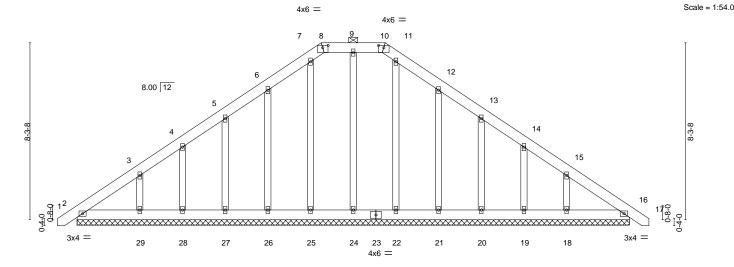




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		1				25-10-8					'		
Plate Off	sets (X,Y)	[8:0-3-0,0-1-5], [10:0-3-0	,0-1-5]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	16	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	ВС	0.03	Vert(CT)	0.00	16	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	16	n/a	n/a			
BCDI.	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 214 lb	FT = 25%	

25-10-8

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2x6 SP No.1 **BOT CHORD** 2-0-0 oc purlins (6-0-0 max.): 8-10.

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

REACTIONS. All bearings 25-10-8 (lb) -Max Horz 2=-326(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 25, 22, 16 except 26=-140(LC 12), 27=-138(LC 12),

28=-114(LC 12), 29=-205(LC 12), 21=-141(LC 13), 20=-139(LC 13), 19=-114(LC 13), 18=-201(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 22, 21, 20, 19, 16 except 29=280(LC

19), 18=276(LC 20)

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

TOP CHORD 2-3=-282/260, 6-7=-255/295, 7-8=-251/298, 8-9=-249/298, 9-10=-249/298,

10-11=-251/298, 11-12=-255/295 3-29=-264/223, 15-18=-264/220 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 25, 22, 16 except (it=lb) 26=140, 27=138, 28=114, 29=205, 21=141, 20=139, 19=114, 18=201,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 17,2024



Job Truss Truss Type Qty Lot 13 Overhills Creek 164946157 J0424-2212 A2 COMMON 10 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:22 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-7-12 5-0-0 5-0-0 7-11-4 4x6 = Scale = 1:54.9 1 2x4 = 2x4 = 5 3 8.00 12 2x4 || 2x4 || 21 20 6 6x6 < 0-0-9 19 22 10-0-0 0-10-5 0 0 0 11 12 10 4x6 = 4x6 = 4x6 = 4x6 = 3x10 = 4x6 = 4x6 =6x6 =17-7-12 7-7-12 10-0-0 7-11-4 Plate Offsets (X,Y)--[1:0-0-0,0-0-2], [4:0-3-0,Edge], [7:0-3-0,Edge] L/d LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.21

-0.31

0.02

0.24 10-18

10 >999

10 >977

n/a

Rigid ceiling directly applied.

>999

360

240

n/a

240

Structural wood sheathing directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

10.0

0.0

WEDGE

Left: 2x4 SP No.3

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

Max Horz 1=-286(LC 8)

Max Uplift 1=-172(LC 12), 8=-191(LC 13) Max Grav 1=1201(LC 19), 8=1244(LC 20)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

1.15

1.15

YES

TC

BC

WB

Matrix-AS

0.62

0.47

0.87

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

1-2=-1701/480, 2-3=-1219/541, 3-4=-89/395, 4-5=-95/403, 5-6=-1213/534, 6-8=-1692/474

BOT CHORD 1-12=-188/1309, 10-12=-192/1310, 8-10=-188/1309

WEBS 6-10=-1/543, 2-12=-0/546, 3-5=-1781/737

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 12-7-12, Exterior(2) 12-7-12 to 17-0-9, Interior(1) 17-0-9 to 26-4-1 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) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



244/190

FT = 25%

MT20

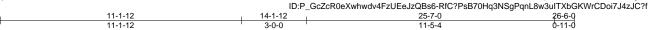
Weight: 182 lb

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

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







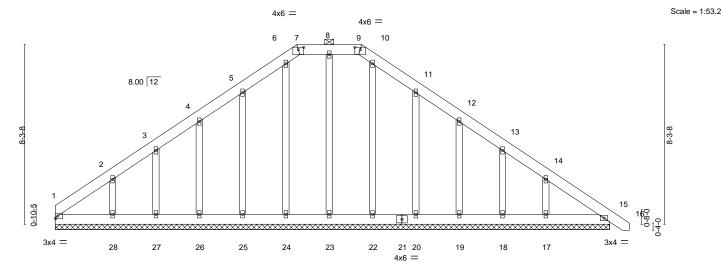


Plate Offsets (X,Y)--[7:0-3-0,0-1-5], [9:0-3-0,0-1-5] **GRIP** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 0.00 15 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 15 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 15 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 210 lb FT = 25%Matrix-S

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 7-9. **OTHERS** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-7-0.

(lb) -Max Horz 1=-322(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 22, 15 except 1=-102(LC 8), 25=-140(LC 12), 26=-137(LC

12), 27=-116(LC 12), 28=-221(LC 12), 20=-141(LC 13), 19=-139(LC 13), 18=-114(LC 13), 17=-201(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 23, 24, 25, 26, 27, 22, 20, 19, 18, 15 except 28=279(LC

19), 17=276(LC 20)

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

TOP CHORD 1-2=-295/270, 5-6=-256/295, 6-7=-252/298, 7-8=-249/298, 8-9=-249/298,

9-10=-252/298, 10-11=-256/295 2-28=-256/239, 14-17=-264/220 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 22, 15 except (it=lb) 1=102, 25=140, 26=137, 27=116, 28=221, 20=141, 19=139, 18=114, 17=201,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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



Job Truss Truss Type Qty Lot 13 Overhills Creek 164946159 J0424-2212 **B1 ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:24 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

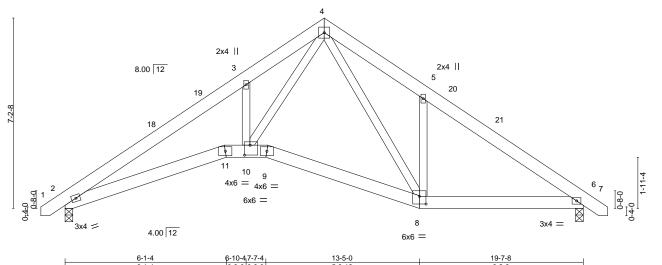
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6-10-4 6-10-4 9-9-12 2-11-8 13-5-0 3-7-4 6-2-8

> 5x5 = Scale = 1:43.6

> > Structural wood sheathing directly applied.

Rigid ceiling directly applied.



0-9-0 0-9-0 6-1-4 5-9-12 6-2-8 Plate Offsets (X,Y)--[8:0-3-0,0-3-8], [10:0-2-8,0-4-8] L/d LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.04 >999 360 244/190 11 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.31 Vert(CT) -0.09 11-14 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.06 6 n/a n/a Code IRC2015/TPI2014 Weight: 137 lb FT = 25% **BCDL** 10.0 Wind(LL) 0.05 11-14 >999 240 Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-225(LC 10)

Max Uplift 2=-150(LC 12), 6=-150(LC 13) Max Grav 2=830(LC 1), 6=830(LC 1)

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

2-3=-1818/525, 3-4=-1988/720, 4-5=-1325/591, 5-6=-1148/403 TOP CHORD

BOT CHORD 2-11=-284/1549, 10-11=-255/1464, 9-10=-35/734, 8-9=-51/791, 6-8=-184/851

WFBS 3-10=-434/348, 4-10=-430/1438, 4-8=-290/456, 5-8=-455/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 9-9-12, Exterior(2) 9-9-12 to 14-2-9, Interior(1) 14-2-9 to 20-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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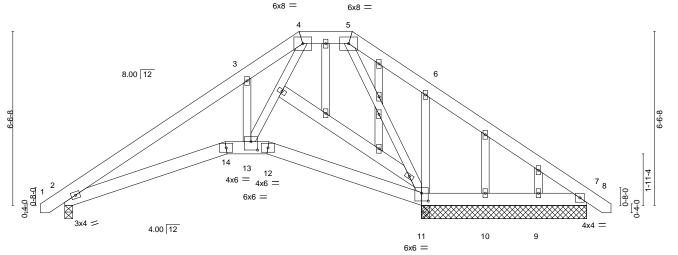
Job Truss Truss Type Qty Lot 13 Overhills Creek 164946160 J0424-2212 B1SG **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:24 2024 Page 1

19-7-8

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-10-4 6-10-4 13-5-0 2-7-4

Scale = 1:43.3



		6-1-		0-9-0 0-9-0 1-2-8	2-0-0	2-7-4		6-2-8		
Plate Offs	sets (X,Y)	[11:0-3-0,0-3-8], [13:0-3-	0,0-3-12]							
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 0.26	Vert(LL)	-0.04 14-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.09 14-25	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.05 11	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix-AS	Wind(LL)	0.07 14-25	>999	240	Weight: 161 lb	FT = 25%

13-5-0

LUMBER-**BRACING-**

6-1-4

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied, except

6-10-47-7-4 8-9-12 10-9-12

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 4-5. 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. **WEBS**

11-18: 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 6-2-8 except (jt=length) 2=0-3-8.

Max Horz 2=256(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 10 except 2=-224(LC 12), 11=-245(LC 12), 9=-200(LC 13) Max Grav All reactions 250 lb or less at joint(s) 7, 10, 7 except 2=544(LC 1), 11=872(LC 1), 11=872(LC 1), 9=279(LC 20)

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

TOP CHORD 2-3=-839/313, 3-4=-1118/622, 4-5=-309/249, 5-6=-80/286 **BOT CHORD** 2-14=-304/857, 13-14=-277/804, 12-13=-110/288, 11-12=-131/312 WEBS 3-13=-711/532, 5-11=-730/230, 6-11=-327/394, 4-13=-607/1254

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 2 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) 7, 10, 7 except (jt=lb) 2=224, 11=245, 9=200.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 13 Overhills Creek 164946161 J0424-2212 COMMON B2 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 20-6-8 0-11-0 0-11-0 19-7-8 9-9-12 9-9-12 5x8 || Scale = 1:43.4 3 8.00 12 16 17 T 18 6 19 7 4x6 =2x4 || 4x6 = 4x6 = 19-7-8 LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES GRIP** 2-0-0 (loc)

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.07

-0.12

0.01

0.07

7-13

7-13

7-13

>999

>999

>999

n/a

Rigid ceiling directly applied.

360

240

n/a

240

Structural wood sheathing directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

WEBS 2x4 SP No.2

20.0

10.0

0.0

10.0

REACTIONS.

(size) 4=0-3-8, 2=0-3-8 Max Horz 2=225(LC 11)

Max Uplift 4=-150(LC 13), 2=-150(LC 12) Max Grav 4=970(LC 20), 2=970(LC 19)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

2-3=-1164/377, 3-4=-1163/377 TOP CHORD **BOT CHORD** 2-7=-82/939, 4-7=-82/939

WEBS 3-7=0/659

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 9-9-12, Exterior(2) 9-9-12 to 14-2-9, Interior(1) 14-2-9 to 20-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-AS

0.34

0.43

0.15

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

1.15

1.15

YES

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



244/190

FT = 25%

MT20

Weight: 116 lb

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

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Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946162 J0424-2212 B2-GR Common Girder Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-9-12 4-9-12 5-0-0 5-0-0 4-9-12 6x6 || Scale = 1:42.4 3 8.00 12 4x6 / 4x6 < 2 5 0-8-0 8 20 16 17 18 19 7 21 22 23 9 6 6x6 = 3x10 || 8x8 =3x10 || 6x8 =6x8 = 9-9-12 14-9-12 19-7-8 4-9-12 5-0-0 4-9-12 Plate Offsets (X,Y)--[1:0-0-0,0-0-7], [5:Edge,0-0-7], [8:0-4-0,0-4-12] LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.09 8-9 >999 360 244/190 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.17

0.05

0.07

8-9

8-9

5

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 5-7-9 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

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

2x4 SP No.2 **WEBS**

10.0

10.0

0.0

REACTIONS. (size) 1=0-3-8 (req. 0-3-14), 5=0-3-8

Max Horz 1=-209(LC 4)

Max Uplift 1=-1110(LC 8), 5=-989(LC 9) Max Grav 1=6616(LC 2), 5=5856(LC 2)

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 1-2=-8234/1401, 2-3=-5747/1046, 3-4=-5752/1047, 4-5=-8431/1434 **BOT CHORD** 1-9=-1186/6790, 8-9=-1186/6790, 6-8=-1114/6979, 5-6=-1114/6979

WFBS 3-8=-1006/5974, 4-8=-2677/592, 4-6=-401/2790, 2-8=-2449/553, 2-9=-368/2599

1.15

NO

NOTES-

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 0-7-0 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.

BC

WB

Matrix-MS

0.95

0.73

3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope);

- Lumber DOL=1.60 plate grip DOL=1.60 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1110, 5=989.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1116 lb down and 184 lb up at 0-0-0, 1109 lb down and 192 lb up at 2-3-4, 1109 lb down and 192 lb up at 4-3-4, 1109 lb down and 192 lb up at 6-3-4, 1109 lb down and 192 lb up at 8-3-4, 1109 lb down and 192 lb up at 10-3-4, 1109 lb down and 192 lb up at 12-3-4, 1109 lb down and 192 lb up at 14-3-4, and 1109 lb down and 192 lb up at 16-3-4, and 1109 lb down and 192 lb up at 17-6-12 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



FT = 25%

Weight: 274 lb

Continued on page 2



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Truss Type Job Truss Qty Ply Lot 13 Overhills Creek 164946162 J0424-2212 B2-GR Common Girder 2 | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:26 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1003(B) 10=-1010(B) 16=-1003(B) 17=-1003(B) 18=-1003(B) 19=-1003(B) 20=-1003(B) 21=-1003(B) 22=-1003(B) 23=-1003(B)



818 Soundside Road Edenton, NC 27932

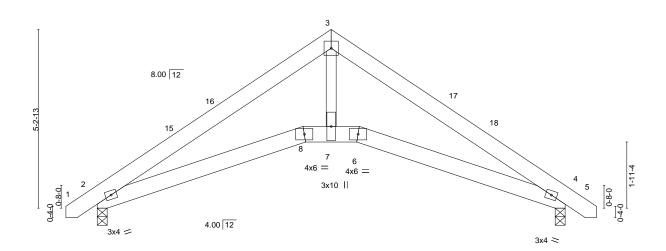
Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946163 J0424-2212 C₁ **ROOF SPECIAL** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:26 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-7-8 0-11-0 0-11-0 13-8-8

5x5 =

6-10-4

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



	0-1-		7-7-4	13-6-6	
	6-1-	4	1-6-0	6-1-4	<u> </u>
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 0.15		-0.02 8-11 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT)	-0.05 8-11 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT)	0.03 4 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.03 8-11 >999 240	Weight: 82 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x6 SP No.1 2x6 SP No.1

BOT CHORD WEBS 2x4 SP No.2

REACTIONS.

2=0-3-8, 4=0-3-8 (size) Max Horz 2=-162(LC 10)

Max Uplift 2=-109(LC 12), 4=-109(LC 13) Max Grav 2=594(LC 1), 4=594(LC 1)

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

2-3=-1114/353, 3-4=-1113/336 TOP CHORD

BOT CHORD 2-8=-137/909, 7-8=-110/846, 6-7=-110/846, 4-6=-137/902

WEBS 3-7=-63/731

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 6-10-4, Exterior(2) 6-10-4 to 11-3-1, Interior(1) 11-3-1 to 14-5-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6-10-4

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Scale = 1:33.7

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

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Job Truss Truss Type Qty Lot 13 Overhills Creek 164946164 J0424-2212 C1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

-0-11-0 0-11-0

13-8-8

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-7-8 7-10-5 5-10-3 2-0-1 5-10-3 0-11-0

Scale = 1:28.3

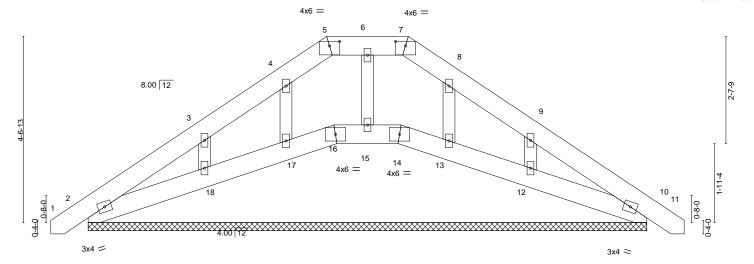


Plate Off	sets (X,Y)	[5:0-3-0,0-1-5], [7:0-3-0,0	6-1-4)-1-5]		1	1-6-0			6	5-1-4	<u> </u>	
LOADIN		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.02 0.04	Vert(CT) Horz(CT)	0.00	10 10	n/r n/a	120 n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matrix	c-S						Weight: 87 lb	FT = 25%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

REACTIONS. All bearings 13-8-8.

Max Horz 2=142(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 17, 13 except 18=-125(LC 12), 12=-124(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 16, 14, 10, 15, 17, 13 except 18=266(LC 19), 12=265(LC

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

WEBS 3-18=-275/219, 9-12=-275/219

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-1 to 3-7-12, Exterior(2) 3-7-12 to 5-11-1, Corner(3) 5-11-1 to 12-2-4, Exterior(2) 12-2-4 to 14-5-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Bearing at joint(s) 16, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 17, 13 except (jt=lb) 18=125, 12=124.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 14, 15, 17, 18, 13, 12.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946165 J0424-2212 M1 MONOPITCH 3 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-8-0 2-8-0 0-11-0 Scale = 1:11.8 3 5.00 12 2

			<u>'</u>	2-8-0	
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 0.02	Vert(LL) -0.00 7 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 7 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 7 >999 240 Weight: 16 lb FT = 25%	

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **BRACING-**

TOP CHORD BOT CHORD

2-8-0

Structural wood sheathing directly applied or 2-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=57(LC 12)

Max Uplift 3=-38(LC 12), 2=-32(LC 8)

Max Grav 3=64(LC 1), 2=151(LC 1), 4=47(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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
- 2) 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) 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) 3, 2.





Job Truss Truss Type Qty Lot 13 Overhills Creek 164946166 J0424-2212 M1-GR MONOPITCH Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 1

Structural wood sheathing directly applied or 2-8-0 oc purlins.

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

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-8-0 0-11-0 2-8-0

Scale = 1:11.8

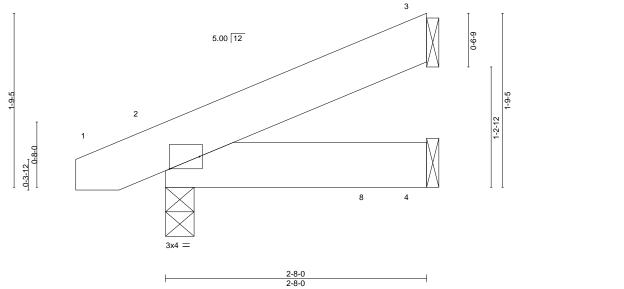


Plate Offs	sets (X,Y)	[2:0-3-10,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	`4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-MP	Wind(LL)	0.00	7	>999	240	Weight: 16 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-38(LC 8), 2=-32(LC 4)

Max Grav 3=96(LC 2), 2=235(LC 2), 4=572(LC 14)

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

NOTES-

1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

2) N/A

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 726 lb down at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

ORT April 17,2024

Continued on page 2

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Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946166 J0424-2212 M1-GR MONOPITCH Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:27 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb) Vert: 8=-187(B)



Job Truss Truss Type Qty Lot 13 Overhills Creek 164946167 J0424-2212 M2 MONOPITCH 3 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:28 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-0-0 0-11-0 5-0-0 3x4 || 3 Scale = 1:16.3 5.00 12 2-8-6 0-3-12 0-5-8 3x4 3x4 = + LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 0.02 240 244/190 **TCLL** 0.14 4-7 >999 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.00

>999

n/a

Rigid ceiling directly applied.

2

240

n/a

Weight: 30 lb

Structural wood sheathing directly applied, except end verticals.

FT = 25%

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x6 SP No.1

10.0

0.0

10.0

REACTIONS. (size)

2=0-3-0, 4=0-1-8 Max Horz 2=96(LC 12) Max Uplift 2=-103(LC 8), 4=-103(LC 8)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 2=236(LC 1), 4=188(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 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

ВС

WB

Matrix-AS

0.14

0.00

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

1.15

YES

- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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) except (jt=lb) 2=103, 4=103
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Lot 13 Overhills Creek 164946168 J0424-2212 M2GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:28 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-0-0 0-11-0 5-0-0

			3x4 3		Scale = 1:16.3
2-8-6 0-3-12 0-8-0	1 1 14 4x4 =	5.00 12 2x4 2x4	15 2x4 4 3x4	2.2.14	Scale = 1.10.3
	1				

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 0.22	Vert(LL) 0.04 4-11 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.01 4-11 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 33 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS.

(size) 2=0-3-0, 4=0-1-8 Max Horz 2=96(LC 12)

Max Uplift 2=-103(LC 8), 4=-103(LC 8) Max Grav 2=236(LC 1), 4=188(LC 1)

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

TOP CHORD 3-4=-125/352

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-8-6 to 3-8-7, Exterior(2) 3-8-7 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
- 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.
- 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) 4 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) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



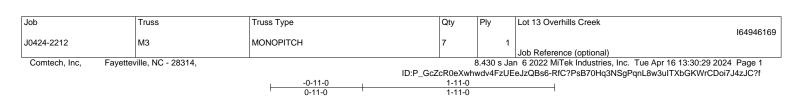
Structural wood sheathing directly applied, except end verticals.

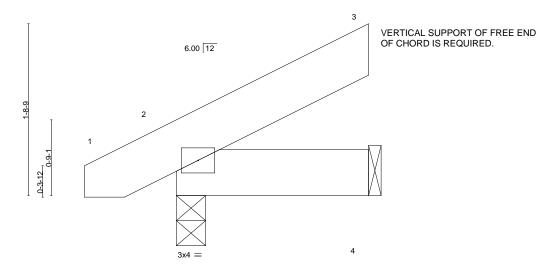
Rigid ceiling directly applied.

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		<u> </u>	1-11-0	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.09	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 7 >999 360 Vert(CT) -0.00 7 >999 240	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.00 Matrix-MP	Horz(CT) -0.00 2 n/a n/a Wind(LL) 0.00 7 >999 240	Weight: 12 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=Mechanical

Max Horz 2=53(LC 9)

Max Uplift 2=-18(LC 12), 4=-44(LC 9) Max Grav 2=127(LC 1), 4=69(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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
- 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) 2, 4.



Structural wood sheathing directly applied or 1-11-0 oc purlins.

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

Scale = 1:11.5



Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946170 J0424-2212 V1 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:29 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-8-7 7-8-8 Scale = 1:33.0 4x4 = 3 8.00 12 11 2x4 || 2x4 || 2 12 9 3x4 / 3x4 > 6 2x4 || 2x4 | 2x4 || 15-4-6 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.07 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 25% **BCDL** 10.0 Weight: 61 lb Matrix-S **BRACING-**

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 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 15-3-13.

Max Horz 1=-154(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-171(LC 12), 6=-171(LC 13)

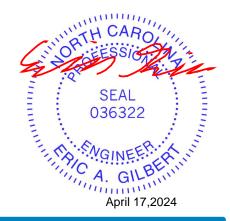
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=388(LC 19), 6=388(LC 20)

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

WEBS 2-8=-382/291, 4-6=-382/291

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-8-7, Exterior(2) 7-8-7 to 12-1-4, Interior(1) 12-1-4 to 14-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=171, 6=171.
- 6) N/A





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Job Truss Truss Type Qty Lot 13 Overhills Creek 164946171 J0424-2212 V2 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:30:30 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 11-4-15 5-8-7 5-8-7 5-8-8 Scale = 1:24.7 4x4 = 3 11 10 8.00 12 2x4 || 4 2x4 || 3x4 🖊 3x4 × 2x4 || 2x4 || 11-4-15 11-4-6 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 FT = 25% **BCDL** 10.0 Weight: 42 lb Matrix-S LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 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 11-3-13.

(lb) -Max Horz 1=-111(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-157(LC 12), 6=-157(LC 13)

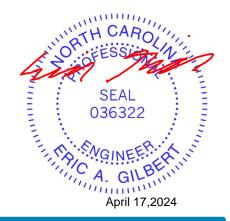
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=262(LC 1), 8=344(LC 19), 6=343(LC 20)

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

WEBS 2-8=-362/303, 4-6=-362/303

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-8-7, Exterior(2) 5-8-7 to 10-1-4, Interior(1) 10-1-4 to 10-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=157, 6=157.
- 6) N/A



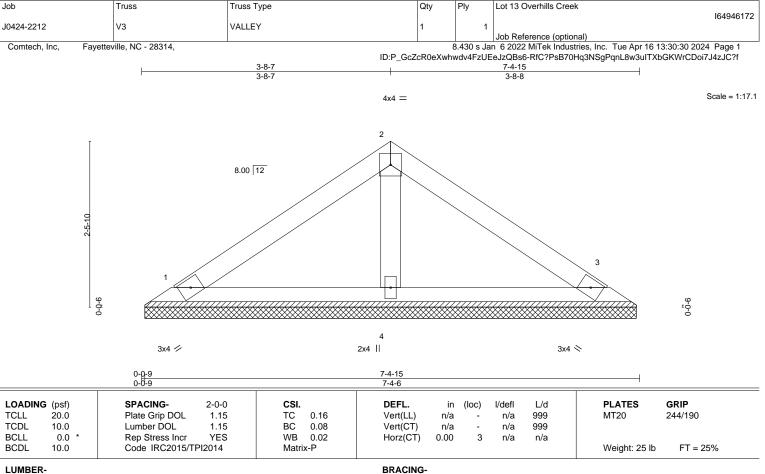
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=7-3-13, 3=7-3-13, 4=7-3-13 (size)

Max Horz 1=-69(LC 8)

Max Uplift 1=-42(LC 12), 3=-49(LC 13), 4=-4(LC 12) Max Grav 1=140(LC 1), 3=142(LC 20), 4=234(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=150mph Vasd=119mph; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) N/A





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

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

Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

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

PLATE SIZE

4 × 4

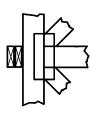
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

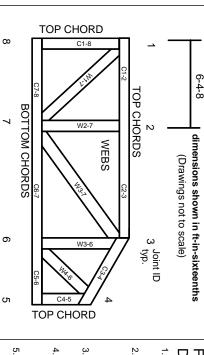
Industry Standards: ANSI/TPI1: National I

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

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

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

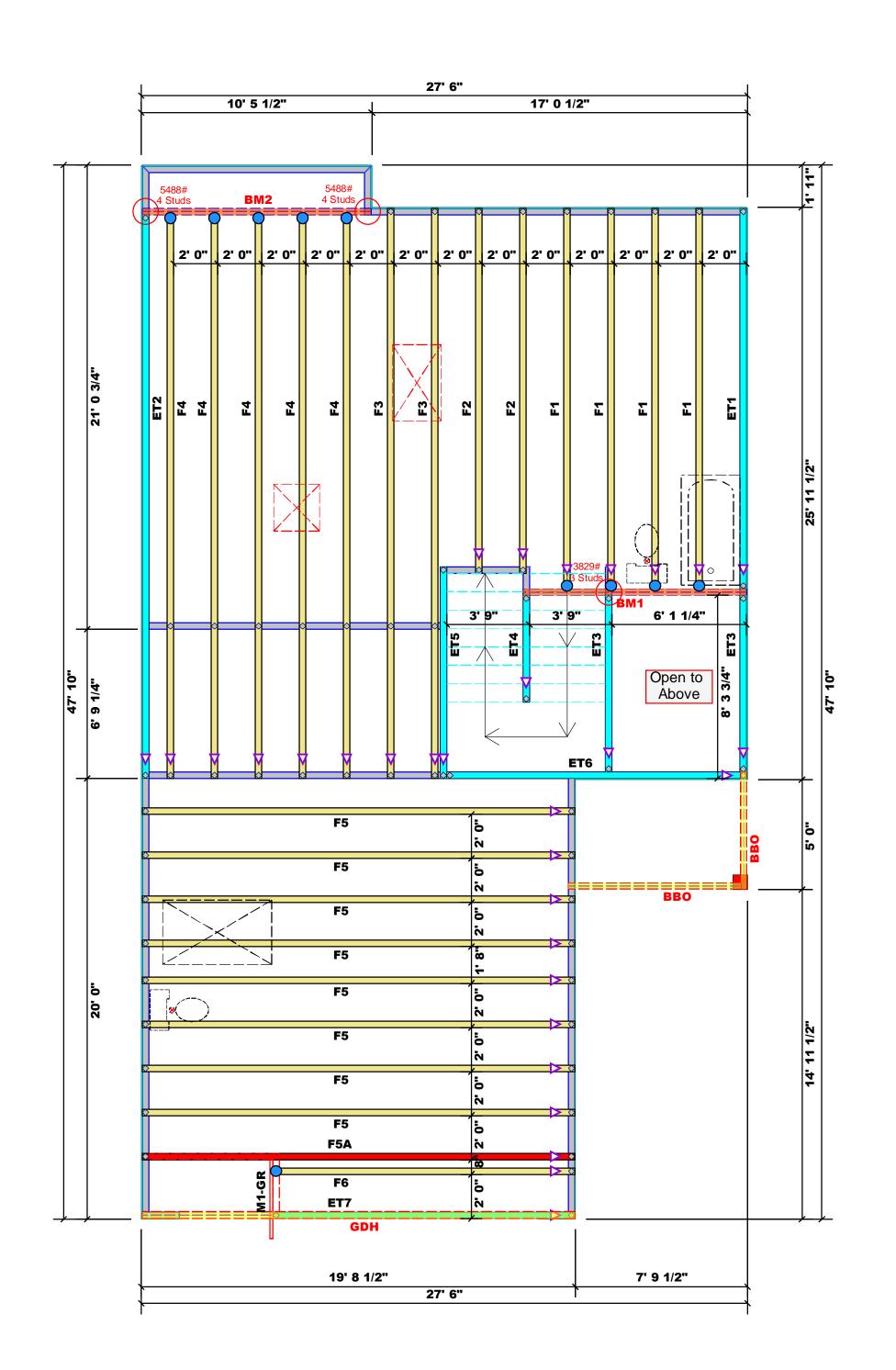
▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

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



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise. -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

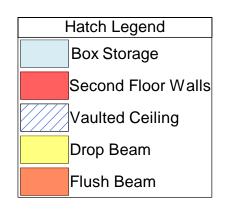
Plumbing Drop Notes

- Plumbing drop locations shown are NOT exact.
 Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
- 3. Adjust spacing as needed not to exceed 24"oc.

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

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

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



	Conne	Nail Info	rmation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
BM2	11' 0"	1-3/4"x 16" LVL Kerto-S	2	2
GDH	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

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

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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

ing reactions less than or equal to 3000# are led to comply with the prescriptive Code rements. The contractor shall refer to the hed Tables (derived from the prescriptive Cor rements) to determine the minimum foundation and number of wood studs required to supportions greater than 3000# but not greater than 300# but not greater than 300# but not greater than the state of the design the support system for any ion that exceeds those specified in the attaches. A registered design professional shall be

Jonathan Landry

Jonathan Landry

LO	AD (CHAR	T FO	RJ	ACK :	STUD	5
	(B	ASED O	N TABLES	5 R502	5(1) & (l	b))	
NU	MBER (STUDS R			A END OF	:
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
10200	6		15300	6			
11900	7						
13600	8						

Wellco Contractors	CITY / CO.	CITY / CO. Johnston Co. / Johnston	13600 15300	11900
Lot 13 Overhills Creek	ADDRESS	69 Onslow Court	9	7 8
Plan 14 / 26LF	MODEL	Floor		
N/A	DATE REV.	04/16/24		
	DRAWN BY	DRAWN BY Jonathan Landry		
J0424-2213	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.cor

JOB NAME

BUILDER

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)



Client: Project: Address:

Wellco Contractors

Plan 14

69 Onslow Court

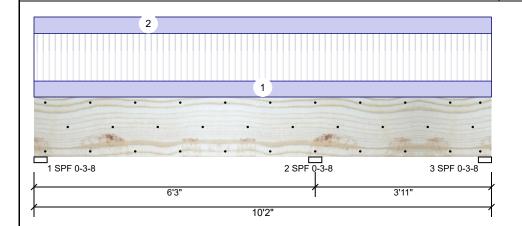
Date: 4/16/2024

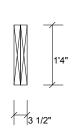
Input by: Jonathan Landry Job Name: Lot 13 Overhills Creek

Project #: J0424-2213

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

Level: Level





Page 1 of 6

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: No Not Checked Deck: Ceiling: Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)						
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	989	703	0	0	0
2	Vertical	2092	1486	0	0	0
3	Vertical	488	347	0	0	0

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	31%	663 / 971	1635	L_	D+L
2 - SPF	3.500"	Vert	74%	1591 / 2239	3829	LL	D+L
3 - SPF	3.500"	Vert	18%	282 / 664	946	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2083 ft-lb	6'3"	34565 ft-lb	0.060 (6%)	D+L	LL
Pos Moment	1882 ft-lb	2'8 11/16"	34565 ft-lb	0.054 (5%)	D+L	L_
Unbraced	1882 ft-lb	2'8 11/16"	12345 ft-lb	0.152 (15%)	D+L	L_
Shear	1284 lb	4'9 1/4"	11947 lb	0.108 (11%)	D+L	LL
LL Defl inch	0.006 (L/11160)	3'1 7/8"	0.151 (L/480)	0.043 (4%)	L	L_
TL Defl inch	0.011 (L/6638)	3'1 3/4"	0.201 (L/360)	0.054 (5%)	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 loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width

	Lateral Sicrider	ness ratio based on single	pry wiatri.								
II	D	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	I	Uniform			Тор	117 PLF	351 PLF	0 PLF	0 PLF	0 PLF	F1
2	2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
		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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

Handling & Installation

- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info

Comtech, Inc. 1001 S Reilly Road Fayetteville Cumberland 28314

Version 23.40.705 Powered by iStruct™ Dataset: 23112401.1



Client: Wellco Contractors

Project: Plan 14

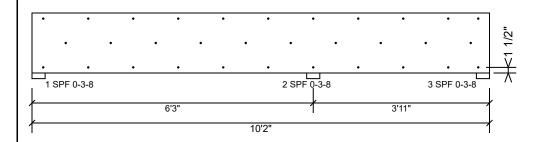
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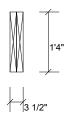
Jonathan Landry Job Name: Lot 13 Overhills Creek

Project #: J0424-2213

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

Level: Level





Page 2 of 6

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

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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 6/28/2026

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Client: Wellco Contractors Project:

Address:

Plan 14 69 Onslow Court Date: 4/16/2024

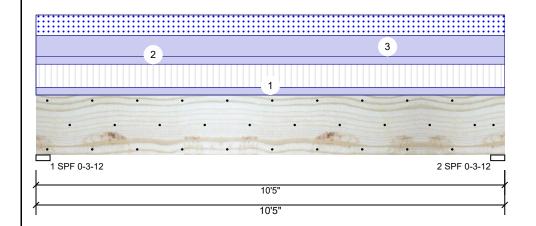
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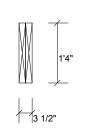
Jonathan Landry Job Name: Lot 13 Overhills Creek

Project #: J0424-2213

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED **BM2**

Level: Level





Page 3 of 6

Member Information

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

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Not Checked Deck: Ceiling: Gypsum 1/2"

Reactions UNPATTERNED Ib (Uplift) Snow Wind Brg Direction Live Dead Const 1813 2914 1620 0 Vertical 0 2 Vertical 1813 2914 1620 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.750" D+0.75(L+S) Vert 2914 / 2574 5488 L D+0.75(L+S) 2 - SPF 3.750" Vert 98% 2914 / 2574 5488 L

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13007 ft-lb	5'2 1/2"	39750 ft-lb	0.327 (33%)	D+0.75(L+S)	L
Unbraced	13007 ft-lb	5'2 1/2"	13030 ft-lb	0.998 (100%)	D+0.75(L+S)	L
Shear	3770 lb	1'7 3/4"	13739 lb	0.274 (27%)	D+0.75(L+S)	L
LL Defl inch	0.058 (L/2058)	5'2 1/2"	0.248 (L/480)	0.233 (23%)	0.75(L+S)	L
TL Defl inch	0.124 (L/965)	5'2 1/2"	0.331 (L/360)	0.373 (37%)	D+0.75(L+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 9'1 15/16" o.c.

7 Lateral slenderness ratio based on single ply width

7 Eutoral dionactrices ratio based on single ply water.											
	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	116 PLF	348 PLF	0 PLF	0 PLF	0 PLF	F4
	2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
	3	Uniform			Тор	311 PLF	0 PLF	311 PLF	0 PLF	0 PLF	A2
		Self Weight				12 PI F					

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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 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 6/28/2026

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Manufacturer Info

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Version 23.40.705 Powered by iStruct™ Dataset: 23112401.1



Client: Wellco Contractors

Project: Plan 14

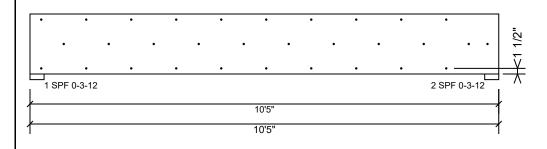
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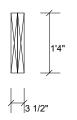
Input by: Jonathan Landry Job Name: Lot 13 Overhills Creek

Project #: J0424-2213

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL BM2**

Level: Level





Page 4 of 6

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

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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 6/28/2026

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Manufacturer Info

Comtech, Inc. 1001 S Reilly Road Fayetteville Cumberland 28314



Client: Wellco Contractors Project:

Address:

Plan 14 69 Onslow Court Date: 4/16/2024

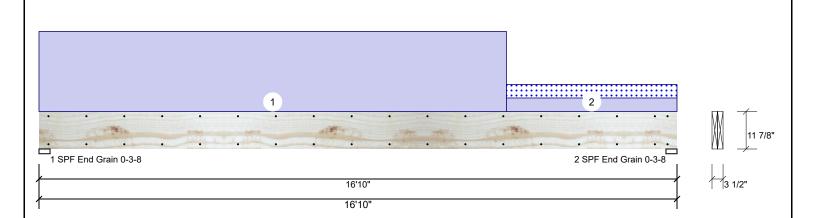
Input by: Jonathan Landry Job Name: Lot 13 Overhills Creek Page 5 of 6

Conet

Project #: J0424-2213

Level: Level

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED **GDH**



	Member Infor	Rea	ctions UNPA	ATTERNED	lb (Uplift)			
	Туре:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow
	Plies:	2	Design Method:	ASD	1	Vertical	0	1867	21
	Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	1234	150
	Deflection LL:	480	Load Sharing:	No					
	Deflection TL:	360	Deck:	Not Checked					
	Importance:	Normal - II	Ceiling:	Gypsum 1/2"					
	Temperature:	Temp <= 100°F							
	·	·			Bea	rings			
ı			ı						

Analysis	Results
----------	---------

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7021 ft-lb	7'11 11/16"	17919 ft-lb	0.392 (39%)	D	Uniform
Unbraced	7186 ft-lb	8' 3/4"	7190 ft-lb	1.000 (100%)	D+S	L
Shear	1576 lb	1'3 3/8"	7980 lb	0.198 (20%)	D	Uniform
LL Defl inch	0.011 (L/18604)	9'8 1/4"	0.409 (L/480)	0.026 (3%)	S	L
TL Defl inch	0.369 (L/532)	8'3 1/2"	0.546 (L/360)	0.677 (68%)	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 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 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 13'9" o.c.
- 7 Lateral slenderness ratio based on single ply width.

			` '	•	
Brg	Direction	Live	Dead	Snow	Wind

Pig	Direction	LIVC	DCau	OHOW	VVIIIG	Const
1	Vertical	0	1867	21	0	0
2	Vertical	0	1234	150	0	0

l	Bearings	5						
I	Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
	1 - SPF End Grain	3.500"	Vert	18%	1867 / 21	1889	L	D+S
	2 - SPF End Grain	3.500"	Vert	13%	1234 / 150	1384	L	D+S

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 12-4-0		Тор	225 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Part. Uniform	12-4-0 to 16-10-0		Тор	38 PLF	0 PLF	38 PLF	0 PLF	0 PLF	M1
	Self Weight				9 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.

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

Handling & Installation

Infoculing & Installation

I. VIL beams must not be cut or drilled

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

Damaged Beams must not be used

Design assumes top edge is laterally restrained

Design assumes top edge is laterally restrained is 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 6/28/2026

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

Comtech, Inc. 1001 S Reilly Road Fayetteville Cumberland 28314

CSD DESIGN



Client: Wellco Contractors

Project: Plan 14

Address: 69 Onslow Court Date: 4/16/2024

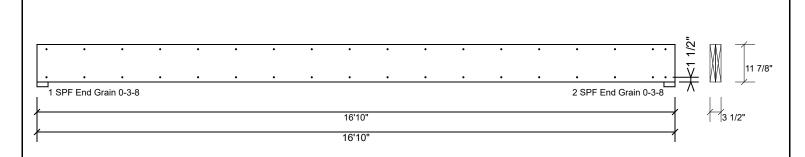
Input by:

Jonathan Landry Job Name: Lot 13 Overhills Creek Page 6 of 6

Project #: J0424-2213

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED **GDH**

Level: Level



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".

·		
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	163.7 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

Notes

NOtes
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.

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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 6/28/2026

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

Manufacturer Info

Comtech, Inc. 1001 S Reilly Road Fayetteville Cumberland 28314





RE: J0424-2213

Lot 13 Overhills Creek

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Wellco Constructors Project Name: J0424-2213 Lot/Block: 13 Model: Plan 14

Address: 69 Onslow Court Subdivision: Overhills Creek

City: State:

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

Design Code: IRC2015/TPl2014 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 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	164946400	ET1	4/17/2024
2	164946401	ET2	4/17/2024
3	164946402	ET3	4/17/2024
4	164946403	ET4	4/17/2024
5	164946404	ET5	4/17/2024
6	164946405	ET6	4/17/2024
7	164946406	ET7	4/17/2024
8	164946407	F1	4/17/2024
9	164946408	F2	4/17/2024
10	164946409	F3	4/17/2024
11	164946410	F4	4/17/2024
12	164946411	F5	4/17/2024
13	164946412	F5A	4/17/2024
14	164946413	F6	4/17/2024

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: Johnson, Andrew

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

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.



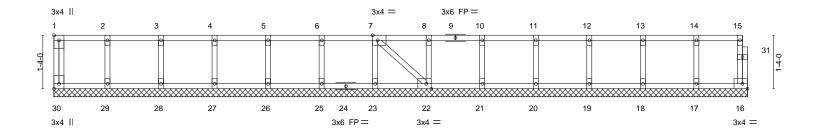
April 17, 2024

Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
10.40.4.00.40		OARLE			164946400
J0424-2213	EII	GABLE	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:41 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0₁1₇8

Scale = 1:28.7



1-4-0	2-8-0 4-0-0 1-4-0 1-4-0	5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0	9-4-0 1-4-0	10-8-0 1-4-0	12-0-0 1-4-0		-4-0 4-0	14-8-0 1-4-0	16-0-0 1-4-0	17-3-4 1-3-4	1
Plate Offsets (X,Y)	[1:Edge,0-1-8], [7:0-1-8,Edg	ge], [22:0-1-8	3,Edge], [30:	Edge,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc) I/	defl L	_/d	PLA ⁻	ΓES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a 9	99	MT20)	244/190	
TCDL 10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a 9	99				
BCLL 0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a r	n/a				
BCDL 5.0	Code IRC2015/TPI2	2014	Matrix	x-S						Weig	ht: 79 lb	FT = 20%F	, 11%E
LUMBER-	•				BRACING	<u>.</u>							

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

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

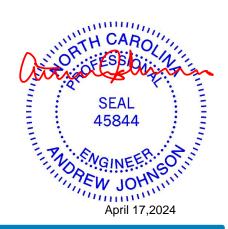
REACTIONS. All bearings 17-3-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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.
- 7) CAUTION, Do not erect truss backwards.





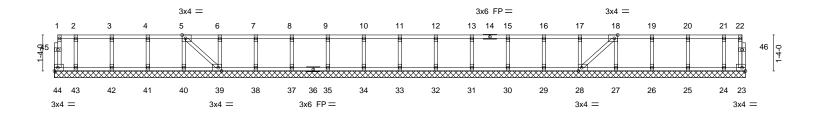
Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
J0424-2213	ET2	GABLE	1	1	164946401
30424-2213	E12	GABLE	'	'	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:41 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

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

Scale = 1:42.7



	9-8 1-4-0	1-4-0 1-4-0 1-4-0		1-4-0 1-4-0	1-4-0	1-4-0		1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-8
Plate Off	sets (X,Y)	[5:0-1-8,Edge], [18:0-1	-8,Edge], [28	3:0-1-8,Edge], [39:0-1-8,E	dge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI			DEFL.	in	(loc)	l/defl	L/d		PLAT	ES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06		Vert(LL)	n/a	-	n/a	999		MT20		244/19)
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	28	n/a	n/a					
BCDL	5.0	Code IRC2015	TPI2014	Mat	rix-S								Weigh	t: 117 lb	FT =	20%F, 11%E

LUMBER-BRACING-

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

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

REACTIONS. All bearings 25-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 44, 23, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
	ETO				164946402
J0424-2213	ET3	GABLE	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:42 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

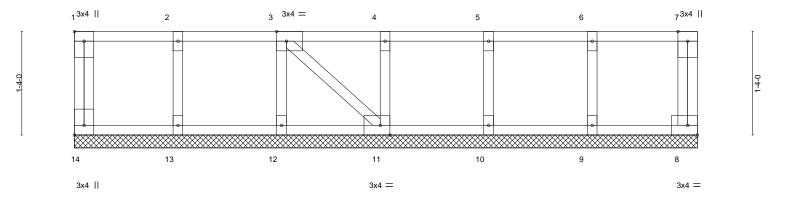
Structural wood sheathing directly applied or 8-0-4 oc purlins,

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

except end verticals.

0-1-8

Scale = 1:14.8



	1	1-4-0	2-8-0	4-0-0	1 5-4	-0	6-8-0	8-0-4	1
		1-4-0	1-4-0	1-4-0	1-4	-0	1-4-0	1-4-4	1
Plate Offsets	(X,Y)	[1:Edge,0-1-8], [3:0-1	-8,Edge], [11:0-1-	8,Edge], [14:Edge,0-1-8]					
LOADING (p TCLL 40 TCDL 10	,	SPACING- Plate Grip DOI Lumber DOL	2-0-0 L 1.00 1.00	CSI. TC 0.06 BC 0.01	DEFL. Vert(LL) Vert(CT)	in (loc) n/a - n/a -	l/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 244/190
	.0	Rep Stress Inc Code IRC201		WB 0.03 Matrix-P	Horz(CT) -(0.00 11	n/a n/a	Weight: 41 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) **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 8-0-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

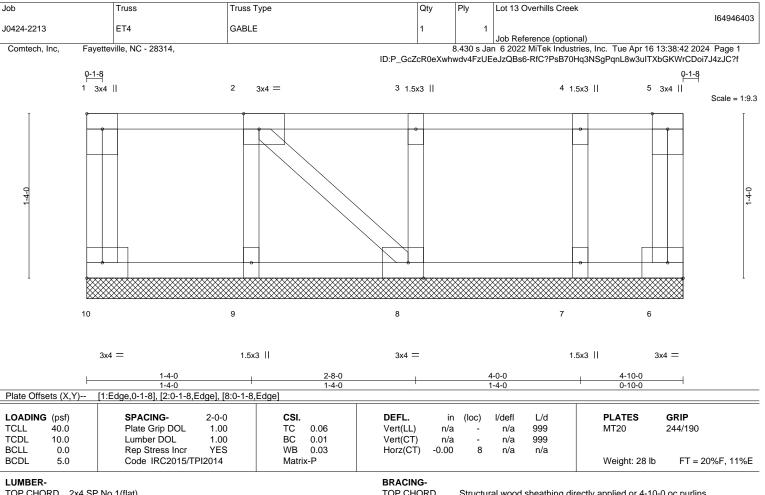
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.
- 7) CAUTION, Do not erect truss backwards.







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

Structural wood sheathing directly applied or 4-10-0 oc purlins, TOP CHORD

except end verticals.

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

REACTIONS. All bearings 4-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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).
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
10.404.0040		OARLE			I64946404
J0424-2213	E15	GABLE	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:42 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

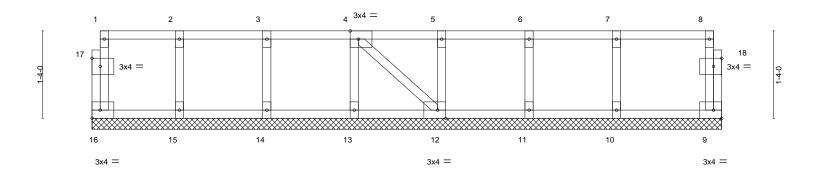
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0,1,8

0,1,8

Scale = 1:17.6



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-7-4	
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-4	ı
Plate Offsets (X,Y)	[4:0-1-8,Edge], [12:	:0-1-8,Edge], [17:0	-1-8,0-1-8], [18:0-1-8	,0-1-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l	/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip D	OL 1.00	TC 0.07	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 I	ncr YES	WB 0.04	Horz(CT	0.00 9	n/a n/a		
BCDL 5.0	Code IRC20	015/TPI2014	Matrix-S	` '			Weight: 46 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) **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 9-7-4.

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





Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					164946405
J0424-2213	ET6	GABLE	1	1	
					Job Reference (optional)

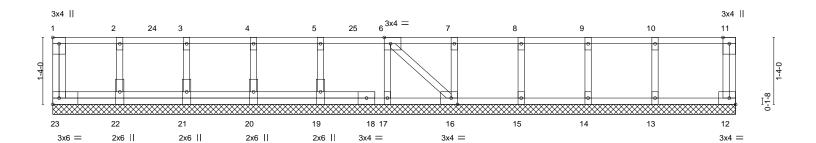
0118

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1

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0118

Scale = 1:23.0



1	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9	-4-0	1	10-8-0	12-0-0	13-7-4
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-	-4-0		1-4-0	1-4-0	1-7-4
Plate O	ffsets (X,Y)	[1:Edge,0-1-8], [6:0-1	-8,Edge], [16:	0-1-8,Edge]								
LOADII	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Inc	r YES	WB	0.04	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2015	5/TPI2014	Matr	ix-S						Weight: 72 lb	FT = 20%F, 11%E
LIMPE	:D_			<u>'</u>		PDACING						

LUMBER-BRACING-

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 13-7-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 12, 22, 21, 20, 19, 17, 16, 15, 14, 13

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.

LOAD CASE(S) Standard

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

Vert: 12-23=-10. 1-11=-100

Concentrated Loads (lb)

Vert: 4=-74 24=-74 25=-74



April 17,2024



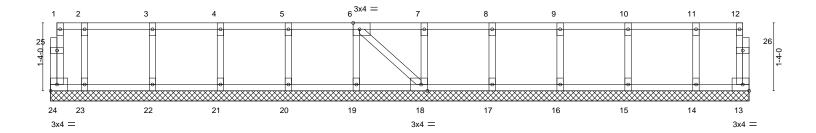
Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
J0424-2213	ET7	GABLE	1	1	164946406
J0424-2213	E17	GABLE	'	'	Job Reference (optional)

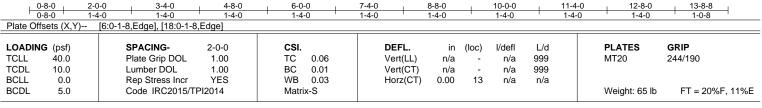
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1

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0118

Scale = 1:22.6





LUMBER-**BRACING-**

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

REACTIONS. All bearings 13-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

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





Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946407 J0424-2213 F1 Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:43 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

1-0-0 1-6-4 0<u>-1</u>_8

Scale = 1:29.0

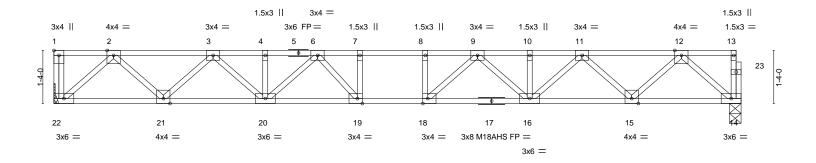


Plate Offsets (X,Y)--[1:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.45 Vert(LL) -0.19 18 >999 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.66 Vert(CT) -0.2618 >787 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.45 0.05 Horz(CT) 14 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Weight: 93 lb Matrix-S

LUMBER-**BRACING-**

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

BOT CHORD 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 22=Mechanical, 14=0-3-8 Max Grav 22=936(LC 1), 14=930(LC 1)

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

TOP CHORD 2-3=-1691/0, 3-4=-2793/0, 4-6=-2793/0, 6-7=-3271/0, 7-8=-3271/0, 8-9=-3271/0,

9-10=-2794/0, 10-11=-2794/0, 11-12=-1690/0

BOT CHORD 21-22=0/1008, 20-21=0/2343, 19-20=0/3109, 18-19=0/3271, 16-18=0/3110, 15-16=0/2344,

14-15=0/1007

WFBS 2-22=-1342/0, 2-21=0/949, 3-21=-907/0, 3-20=0/612, 6-20=-430/0, 12-14=-1338/0,

12-15=0/950, 11-15=-910/0, 11-16=0/612, 9-16=-430/0, 9-18=-102/497, 6-19=-93/519,

NOTES-

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



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					164946408
J0424-2213	F2	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:44 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.



1-11-4

0-1-8 Scale = 1:27.9

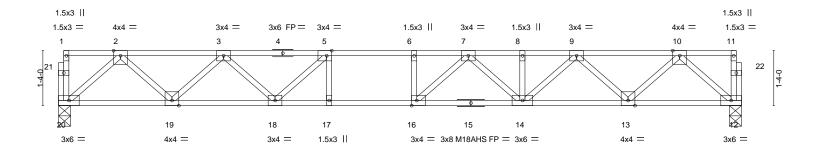


Plate Offsets (X,Y)--[5:0-1-8,Edge], [16:0-1-8,Edge] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.49 Vert(LL) -0.21 14-16 >952 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.87 Vert(CT) -0.28 14-16 >705 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.05 12 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Matrix-S Weight: 87 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 20=0-3-8, 12=0-3-8 Max Grav 20=891(LC 1), 12=891(LC 1)

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

TOP CHORD 2-3=-1609/0, 3-5=-2582/0, 5-6=-2978/0, 6-7=-2978/0, 7-8=-2631/0, 8-9=-2631/0,

9-10=-1604/0

BOT CHORD 19-20=0/962, 18-19=0/2222, 17-18=0/2978, 16-17=0/2978, 14-16=0/2900, 13-14=0/2222,

12-13=0/962

WFBS 2-20=-1278/0, 2-19=0/900, 3-19=-853/0, 3-18=0/543, 10-12=-1278/0, 10-13=0/893,

9-13=-859/0, 9-14=0/556, 7-14=-366/0, 7-16=-165/434, 5-18=-680/0

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					164946409
J0424-2213	F3	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:44 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

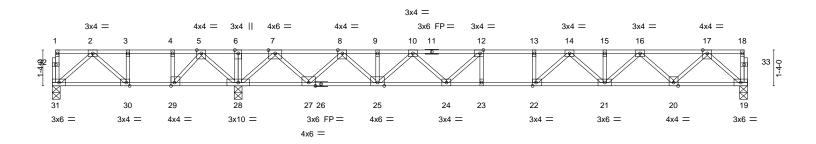
except end verticals.

0-1-8

H|-1-3-0 1-6-8

1-10-0

0-1-8 Scale = 1:42.9



		0-11-0		25-10-0						
	6-11-0						<u> </u>			
Plate C	Plate Offsets (X,Y) [12:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]									
LOADI TCLL	ING (psf) 40.0		2-0-0 1.00	CSI. TC 0.90	DEFL. Vert(LL)	in (loc) -0.22 22-23	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190
TCDL BCLL	10.0	Lumber DOL	1.00 YES	BC 0.80 WB 0.60	Vert(CT) Horz(CT)	-0.30 22-23 0.05 19	>748 n/a	360 n/a		211/100
BCDL	5.0	Code IRC2015/TPI20	014	Matrix-S					Weight: 137 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)

WEBS 2x4 SP No.3(flat)

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

Max Uplift 31=-178(LC 4)

Max Grav 31=287(LC 3), 28=1794(LC 1), 19=934(LC 7)

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

2-3=-278/660, 3-4=-278/660, 4-5=-278/660, 5-6=0/1654, 6-7=0/1654, 7-8=-630/0, TOP CHORD

8-9=-2136/0, 9-10=-2136/0, 10-12=-2997/0, 12-13=-3297/0, 13-14=-3297/0,

14-15=-2811/0, 15-16=-2811/0, 16-17=-1698/0

BOT CHORD 30-31=-232/252, 29-30=-660/278, 28-29=-1146/0, 27-28=-435/0, 25-27=0/1485,

 $24 - 25 = 0/2694,\ 23 - 24 = 0/3297,\ 22 - 23 = 0/3297,\ 21 - 22 = 0/3132,\ 20 - 21 = 0/2357,\ 19 - 20 = 0/1011$ **WEBS** 2-31=-333/307, 2-30=-582/34, 5-28=-875/0, 5-29=0/921, 4-29=-517/0, 3-30=-44/285,

7-28=-1624/0, 7-27=0/1259, 8-27=-1209/0, 8-25=0/903, 17-19=-1344/0, 17-20=0/955

16-20=-916/0, 16-21=0/617, 14-21=-437/0, 14-22=-113/504, 10-25=-772/0, 10-24=0/505,

12-24=-611/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 31.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					164946410
J0424-2213	F4	Floor	5	1	
					Job Reference (optional)

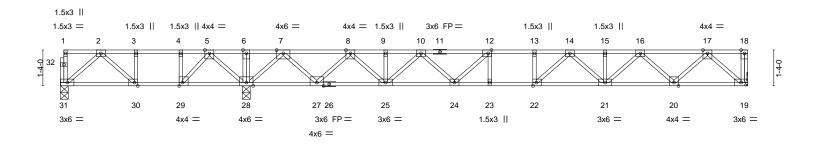
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:45 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

H|-3-0 1-6-8

1-6-8

Scale = 1:42.9



		6-11-0 18-8-0						<u> </u>		
Plate Off	Plate Offsets (X,Y) [12:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]									
LOADIN	G (psf)	SPACING- 2-)-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1	00	TC 0.87	Vert(LL)	-0.21 23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1	00	BC 0.72	Vert(CT)	-0.28 22-23	>782	360		
BCLL	0.0	Rep Stress Incr Y	ES	WB 0.59	Horz(CT)	0.05 19	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI201	4	Matrix-S					Weight: 137 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

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

except end verticals.

25-7-0

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

REACTIONS. (size) 31=0-3-8, 28=0-3-8, 19=Mechanical

6-11-0

Max Uplift 31=-168(LC 4)

Max Grav 31=289(LC 3), 28=1767(LC 1), 19=926(LC 7)

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

 $2\text{-}3\text{=-}284/634,\ 3\text{-}4\text{=-}284/634,\ 4\text{-}5\text{=-}284/634,\ 5\text{-}6\text{=-}0/1607,\ 6\text{-}7\text{=-}0/1607,\ 7\text{-}8\text{=-}643/0,\ 7\text{$

8-9=-2111/0, 9-10=-2111/0, 10-12=-2933/0, 12-13=-3206/0, 13-14=-3206/0,

14-15=-2750/0, 15-16=-2750/0, 16-17=-1668/0

BOT CHORD 30-31=-221/255, 29-30=-634/284, 28-29=-1106/0, 27-28=-407/0, 25-27=0/1481,

 $24 - 25 = 0/2653,\ 23 - 24 = 0/3206,\ 22 - 23 = 0/3206,\ 21 - 22 = 0/3058,\ 20 - 21 = 0/2311,\ 19 - 20 = 0/996$ **WEBS** 2-31=-336/293, 2-30=-561/40, 3-30=-47/275, 5-28=-861/0, 5-29=0/900, 4-29=-506/0,

17-19=-1326/0, 17-20=0/935, 16-20=-894/0, 16-21=0/596, 7-28=-1598/0, 7-27=0/1234,

8-27=-1184/0, 8-25=0/877, 10-25=-751/0, 10-24=0/478, 12-24=-567/0, 14-21=-419/0,

14-22=-132/472

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 31.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					I64946411
J0424-2213	F5	Floor	8	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:45 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except end verticals.

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



2-4-8

0-1-8 Scale = 1:32.3

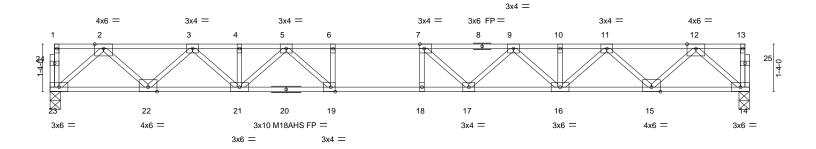


Plate Offsets (X,Y)--[7:0-1-8,Edge], [19:0-1-8,Edge] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/def L/d 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.97 Vert(LL) -0.32 18 >731 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.78 Vert(CT) -0.44 18 >533 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.54 Horz(CT) 0.06 14 n/a n/a **BCDL** Code IRC2015/TPI2014 Weight: 102 lb 5.0 FT = 20%F, 11%E Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BOT CHORD

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=0-3-8, 14=0-3-8

Max Grav 23=1059(LC 1), 14=1059(LC 1)

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

2-3=-1973/0, 3-4=-3338/0, 4-5=-3338/0, 5-6=-4209/0, 6-7=-4209/0, 7-9=-4060/0,

9-10=-3335/0, 10-11=-3335/0, 11-12=-1971/0 22-23=0/1155, 21-22=0/2753, 19-21=0/3807, 18-19=0/4209, 17-18=0/4209, 16-17=0/3840,

15-16=0/2758, 14-15=0/1153

2-23=-1535/0, 2-22=0/1137, 3-22=-1085/0, 3-21=0/795, 12-14=-1533/0, 12-15=0/1137, 11-15=-1095/0, 11-16=0/784, 9-16=-687/0, 9-17=0/465, 7-17=-563/159, 5-21=-637/0,

5-19=0/835, 6-19=-366/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job Truss Truss Type Qty Ply Lot 13 Overhills Creek 164946412 Floor J0424-2213 F5A

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:46 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 0-1-8 Scale = 1:33.2 1-3-0 2-4-8 $H \vdash$

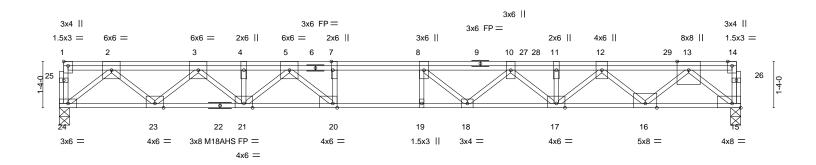


Plate Offsets (X,Y)--[1:Edge,0-1-8], [7:0-3-0,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge] LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.82 Vert(LL) -0.37 18-19 >634 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.89 Vert(CT) -0.51 18-19 >456 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr NO WB 0.91 0.10 Horz(CT) 15 n/a n/a Code IRC2015/TPI2014 **BCDL** 5.0 FT = 20%F, 11%E Matrix-S Weight: 129 lb

LUMBER-**BRACING-**

2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD except end verticals.

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

REACTIONS. (size) 24=0-3-8, 15=0-3-8 Max Grav 24=1252(LC 1), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2506/0, 3-4=-4389/0, 4-5=-4389/0, 5-7=-5948/0, 7-8=-5948/0, 8-10=-6153/0,

10-11=-5805/0, 11-12=-5805/0, 12-13=-3735/0 BOT CHORD 23-24=0/1440, 21-23=0/3530, 20-21=0/5031, 19-20=0/5948, 18-19=0/5948, 17-18=0/6241,

16-17=0/5107, 15-16=0/2331 WFBS 2-24=-1871/0, 2-23=0/1446, 3-23=-1390/0, 3-21=0/1141, 13-15=-3027/0, 13-16=0/1904,

12-16=-1861/0, 12-17=0/927, 10-17=-580/0, 10-18=-389/367, 8-18=-359/600,

5-21=-852/0, 5-20=0/1548, 7-20=-866/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down at 13-9-4, and 5 lb down at 15-6-12, and 5 lb down at 17-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 15-24=-10, 1-27=-100, 14-27=-295(F=-195)

Concentrated Loads (lb)

Vert: 12=-5(F) 28=-18(F) 29=-5(F)



April 17,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 13 Overhills Creek
					I64946413
J0424-2213	F6	Floor	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Apr 16 13:38:46 2024 Page 1 ID:P_GcZcR0eXwhwdv4FzUEeJzQBs6-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.



Scale = 1:22.7

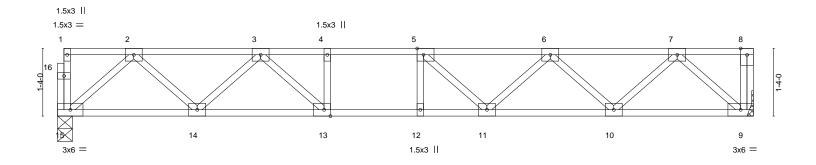


Plate Offsets (X,Y)--[5:0-1-8,Edge], [13:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defl L/d 0.42 **TCLL** 40.0 Plate Grip DOL 1.00 TC Vert(LL) -0.11 11-12 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.68 Vert(CT) -0.15 11-12 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.03 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-S Weight: 72 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 15=0-3-8, 9=Mechanical Max Grav 15=734(LC 1), 9=740(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1257/0, 3-4=-2023/0, 4-5=-2023/0, 5-6=-1911/0, 6-7=-1272/0

BOT CHORD 14-15=0/784, 13-14=0/1720, 12-13=0/2023, 11-12=0/2023, 10-11=0/1740, 9-10=0/778 WEBS

 $7-9 = -1036/0, \ 2-15 = -1041/0, \ 7-10 = 0/686, \ 2-14 = 0/657, \ 6-10 = -651/0, \ 3-14 = -644/0,$

6-11=0/313, 3-13=0/568, 5-11=-333/44

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.



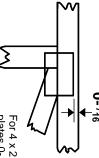


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

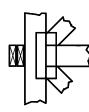
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

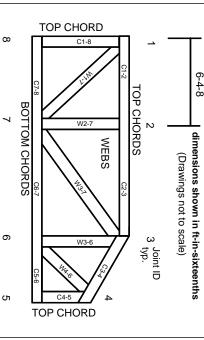
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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

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