

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0423-1890

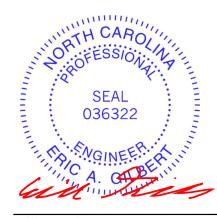
Wellco/Lot 1 Overhills Creek/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I58266734 thru I58266770

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



May 10,2023

Gilbert, Eric

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

Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266734 J0423-1890 Α1 PIGGYBACK BASE 6 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:49 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-10-4

35-2-4

6-10-4

42-0-12

6-10-8

45-6-0

2-0-0 oc purlins (5-9-6 max.): 6-8.

1 Row at midpt

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

48-11-4

6-10-8

Scale = 1:102.7

57-6₇8 0-10-8

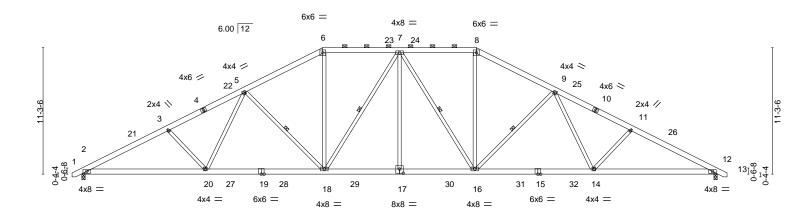
56-8-0

7-8-12

56-8-0

Structural wood sheathing directly applied or 4-7-4 oc purlins, except

5-18, 7-18, 7-16, 9-16



	ı	11-2-0	10-3-1	2	6-10-4	6-10-4	1 '	10-3-1	2	11-2-0	ı
Plate Off	sets (X,Y)	[17:0-4-0,0-4-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	oc) l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.27 18-	-20 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.45 18-	-20 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.15	12 n/a	n/a		
BCDL	10.0	Code IRC2015/7	TPI2014	Matri	x-S	Wind(LL)	0.13	17 >999	240	Weight: 430 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP 2400F 2.0E TOP CHORD

-0₁10-8 0-10-8

7-8-12

6-10-8

6-10-8

BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 12=0-3-8 Max Horz 2=-145(LC 10)

11-2-0

Max Uplift 2=-111(LC 12), 12=-111(LC 13) Max Grav 2=2420(LC 2), 12=2420(LC 2)

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

TOP CHORD 2-3=-4696/1021, 3-5=-4470/1004, 5-6=-3587/927, 6-7=-3150/900, 7-8=-3150/900,

8-9=-3587/927, 9-11=-4470/1004, 11-12=-4696/1021

BOT CHORD 2-20=-818/4117, 18-20=-673/3663, 17-18=-473/3348, 16-17=-473/3348, 14-16=-666/3663,

12-14=-810/4117

3-20=-368/249, 5-20=-53/654, 5-18=-790/334, 6-18=-197/1227, 7-18=-529/142,

7-17=0/378, 7-16=-529/142, 8-16=-197/1227, 9-16=-790/334, 9-14=-52/654,

21-5-12

11-14=-368/249

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 12=111.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266735 J0423-1890 A1A PIGGYBACK BASE Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:50 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-10-4

35-2-4

6-10-4

42-0-12

6-10-8

48-11-4

6-10-8

Structural wood sheathing directly applied or 4-7-0 oc purlins, except

4-17, 6-17, 6-15, 8-15

2-0-0 oc purlins (5-9-6 max.): 5-7.

1 Row at midpt

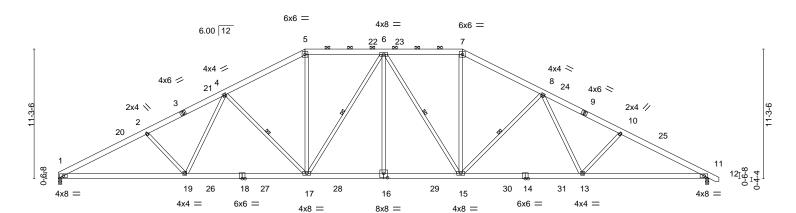
Rigid ceiling directly applied or 10-0-0 oc bracing.

57-6₇8 0-10-8

56-8-0

7-8-12

Scale = 1:100.4



L		11-2-0	21-5-12	1	28-4-0	35-2-4	ı	45-6-0		56-8-0	
ı		11-2-0	10-3-12	1	6-10-4	6-10-4	ı	10-3-12		11-2-0	
Plate Offse	ets (X,Y)	[16:0-4-0,0-4-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.27 17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.46 17-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.15 11	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.13 16	>999	240	Weight: 428 lb	FT = 20%
						. ,					

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP 2400F 2.0E TOP CHORD

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

REACTIONS. (size) 1=0-3-8, 11=0-3-8

7-8-12

6-10-8

6-10-8

Max Horz 1=-146(LC 8)

Max Uplift 1=-99(LC 12), 11=-111(LC 13) Max Grav 1=2377(LC 2), 11=2420(LC 2)

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

1-2=-4701/1044, 2-4=-4473/1009, 4-5=-3588/928, 5-6=-3151/901, 6-7=-3150/904, TOP CHORD

7-8=-3587/932, 8-10=-4470/1008, 10-11=-4697/1026

BOT CHORD 1-19=-822/4122, 17-19=-673/3665, 16-17=-473/3348, 15-16=-473/3348, 13-15=-670/3664, 11-13=-814/4117

> 2-19=-372/271, 4-19=-68/656, 4-17=-790/333, 5-17=-200/1227, 6-17=-529/139, 6-16=0/378, 6-15=-529/142, 7-15=-197/1227, 8-15=-790/334, 8-13=-52/654,

10-13=-368/249

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=111.
- 7) 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. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property danage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266736 J0423-1890 A1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:53 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

13-8-8

Scale = 1:102.7

57-6₇8 0-10-8

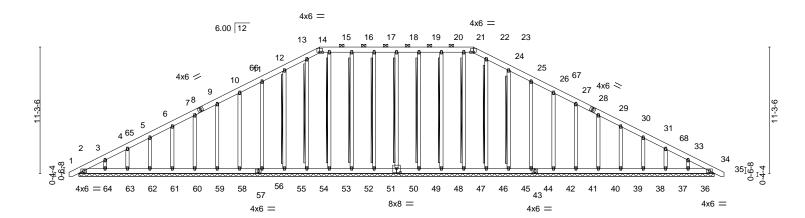


Plate Offsets (X,Y)--[50:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 34 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) 0.00 34 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 34 n/a n/a Code IRC2015/TPI2014 **BCDL** Weight: 548 lb FT = 20%10.0 Matrix-S

BRACING-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-22 Rigid ceiling directly applied or 10-0-0 oc bracing.

21-5-12

2x4 SPF No.2 - 18-50, 17-51, 16-52, 15-53 , 13-54, 12-55, 19-49, 20-48, 21-47, 23-46, 24-45

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

REACTIONS. All bearings 56-8-0. (lb) -

-0₋10-8 0-10-8

Max Horz 2=-225(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 45, 44, 42, 41, 40, 39, 38, 37, 36

All reactions 250 lb or less at joint(s) 2, 34, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37,

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

21-5-12

TOP CHORD 2-3=-310/105, 10-11=-94/291, 11-12=-115/351, 12-13=-137/413, 13-14=-142/420,

14-15=-132/418, 15-16=-132/418, 16-17=-132/418, 17-18=-132/418, 18-19=-132/418,

19-20=-132/418, 20-21=-132/418, 21-22=-132/418, 22-23=-142/422, 23-24=-137/415,

24-25=-115/353, 25-26=-94/294

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 4-11-6, Exterior(2) 4-11-6 to 21-5-12, Corner(3) 21-5-12 to 27-1-12, Exterior(2) 27-1-12 to 35-2-4, Corner(3) 35-2-4 to 40-10-4, Exterior(2) 40-10-4 to 57-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 45, 44, 42, 41, 40, 39, 38, 37, 36.

Odht Green baudio representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 1 Overhills Creek/Harnett
J0423-1890	A1GE	GABLE	1	1	I5826673(

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:54 2023 Page 2 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266737 J0423-1890 A2 PIGGYBACK BASE 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:55 2023 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-10-4

35-2-4

6-10-4

42-0-12

6-10-8

48-11-4

6-10-8

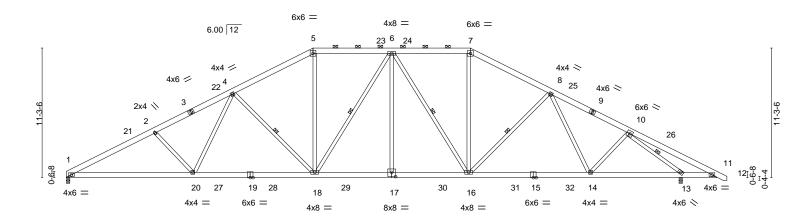
Scale = 1:100.4

57-6₇8

0-10-8

56-8-0

7-8-12



	11-2-0	21-3-12	20-4-0	33-2-4	43-6-0	33-6-0	36-6-0
	11-2-0	10-3-12	6-10-4	6-10-4	10-3-12	8-2-0	3-0-0
Plate Offsets (2	(,Y) [17:0-4-0,0-4-8]						
	, , , , , ,						
LOADING (ps	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.	D Plate Grip D	OOL 1.15	TC 0.40	Vert(LL) -C	0.26 18-20 >999 360	MT20	244/190
TCDL 10.	D Lumber DO	L 1.15	BC 0.36	Vert(CT) -0	0.44 18-20 >999 240		
BCLL 0.	0 * Rep Stress	Incr YES	WB 0.67	Horz(CT) C).12 13 n/a n/a		
BCDL 10.	Code IRC2	015/TPI2014	Matrix-S	Wind(LL) C	0.11 18 >999 240	Weight: 437 lb	FT = 20%
				` ′			

LUMBER-

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

7-8-12

6-10-8

6-10-8

WEBS 2x4 SP No.2 BRACING-

TOP CHORD

Structural wood sheathing directly applied or 3-4-9 oc purlins, except

4-18, 6-18, 6-16, 8-16, 10-13

2-0-0 oc purlins (4-5-15 max.): 5-7.

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

6-0-0 oc bracing: 11-13. **WEBS** 1 Row at midpt

REACTIONS. (size) 1=0-3-8, 13=0-3-8

Max Horz 1=-146(LC 8)

Max Uplift 1=-101(LC 12), 13=-116(LC 13) Max Grav 1=2252(LC 2), 13=2547(LC 2)

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

TOP CHORD 1-2=-4432/981, 2-4=-4204/946, 4-5=-3313/854, 5-6=-2903/834, 6-7=-2751/810,

7-8=-3145/827. 8-10=-3322/746. 10-11=-346/328 1-20=-758/3884, 18-20=-608/3422, 17-18=-396/3027, 16-17=-396/3027, 14-16=-502/2938,

BOT CHORD 13-14=-449/2568, 11-13=-205/412 WEBS

2-20=-373/272, 4-20=-69/660, 4-18=-795/335, 5-18=-172/1112, 6-18=-395/139, 6-17=0/375, 6-16=-644/182, 7-16=-146/1037, 8-16=-355/229, 10-14=0/517,

10-13=-3540/987

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=101, 13=116,
- 7) 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. 5/19/2020 BEFORE USE
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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266738 J0423-1890 **A3 ROOF TRUSS** Job Reference (optional) Comtech, Inc,

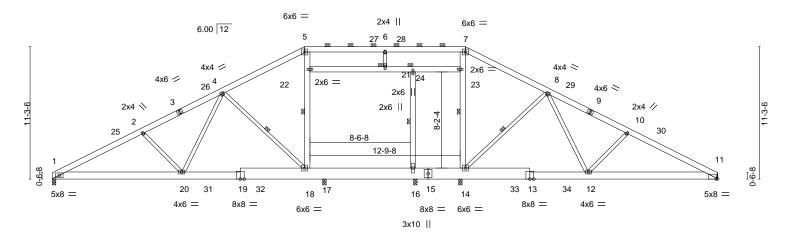
Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:56 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

35-2-4 6-10-4 42-0-12 6-10-8 21-5-12 6-10-8 28-4-0 6-10-4 48-11-4 14-7-4 6-10-8 6-10-8

Scale = 1:98.1



- DI + O"		11-2-0	11-10-4				-10-12 35-2-4	10-3-		11-2-0	
Plate Offs	sets (X,Y)	[11:0-1-6,Edge]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.07 18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.12 18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01 1	l n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix-	S	Wind(LL)	0.03 18-20	>999	240	Weight: 523 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD

BOT CHORD 2x8 SP No.1 *Except* 2-0-0 oc purlins (10-0-0 max.): 5-7. 13-15,15-19: 2x12 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

2x4 SP No.2 *Except* **WEBS** 18-22, 7-14, 8-14, 16-24, 4-18 WEBS 1 Row at midpt

5-18,7-14,22-23,16-24: 2x6 SP No.1 **JOINTS** 1 Brace at Jt(s): 21, 24

REACTIONS. All bearings 0-3-8 except (jt=length) 11=Mechanical.

Max Horz 1=140(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 14=-102(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 1=763(LC 24), 14=1531(LC 2), 11=707(LC 25), 16=764(LC 27), 17=2238(LC 2)

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

TOP CHORD 1-2=-1183/234, 2-4=-866/194, 4-5=-4/501, 5-6=0/442, 6-7=0/442, 7-8=-5/502,

8-10=-716/176, 10-11=-1018/218

BOT CHORD 1-20=-139/976, 18-20=-37/389, 17-18=-379/356, 16-17=-379/356, 14-16=-379/356,

12-14=0/299, 11-12=-86/850

WEBS 18-22=-812/213, 5-22=-607/225, 6-21=-400/226, 14-23=-516/166, 7-23=-612/227,

8-14=-798/341, 8-12=-83/680, 10-12=-436/286, 16-24=-715/48, 4-18=-874/358,

4-20=-101/788, 2-20=-423/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 6) Ceiling dead load (10.0 psf) on member(s). 21-22, 21-24, 23-24; Wall dead load (5.0psf) on member(s). 18-22, 16-24
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 16-17
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.





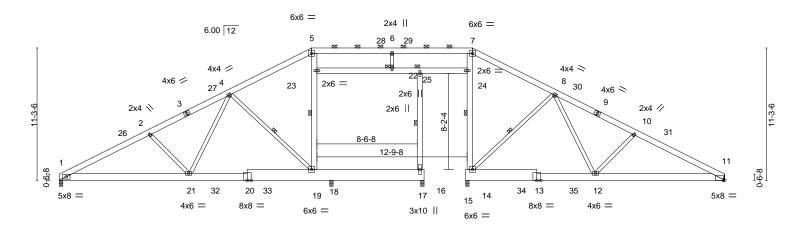
Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266739 J0423-1890 A3X **ROOF TRUSS** l٥ Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:28:58 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

28-4-0 6-10-4

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 35-2-4 6-10-4 42-0-12 6-10-8 48-11-4

6-10-8

Scale = 1:98.1



	11-2-0	11-10-4		8-0-8	3-10-0 0-3 ^L 8	10-3-1	2	11-2-0	
		11 10 -	•	000	3100 000	1001	-	11 2 0	
(psf)	SPACING-	2-0-0	CSI.	DEFL	in (loc) I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15	TC 0.22	Yert(L	_) -0.07 19-2	>999	360	MT20	244/190
10.0	Lumber DOL	1.15	BC 0.40	Vert(C	T) -0.12 19-2	>999	240		
0.0 *	Rep Stress Incr	YES	WB 0.52	. Horz(C	T) 0.03 1	4 n/a	n/a		
10.0	Code IRC2015/7	PI2014	Matrix-S	Wind(I	.L) 0.03 19-2°	>999	240	Weight: 506 lb	FT = 20%
	(psf) 20.0 10.0 0.0 *	(psf) SPACING- 20.0 Plate Grip DOL 10.0 Lumber DOL 0.0 * Rep Stress Incr	(psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr YES	ss (X,Y) [11:0-1-6,Edge] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 0.22 10.0 Lumber DOL 1.15 BC 0.40 0.0 * Rep Stress Incr YES WB 0.52	S (X,Y)	S (X,Y)	S (X,Y)	S (X,Y) [11:0-1-6,Edge]	S (X,Y) [11:0-1-6,Edge]

34-10-12 35-2-4

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except **BOT CHORD** 2x8 SP No.1 *Except* 2-0-0 oc purlins (10-0-0 max.): 5-7.

13-15,16-20: 2x12 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.2 *Except* **WEBS** 19-23, 7-14, 8-14, 17-25, 4-19 WEBS 1 Row at midpt

5-19,7-14,23-24,17-25: 2x6 SP No.1 **JOINTS** 1 Brace at Jt(s): 22, 25

REACTIONS. All bearings 0-3-8 except (jt=length) 11=Mechanical.

Max Horz 1=140(LC 9) (lb) -

11-2-0

Max Uplift All uplift 100 lb or less at joint(s) 14 except 1=-117(LC 12), 11=-178(LC 13)

23-0-4

21-5-12 6-10-8

6-10-8

Max Grav All reactions 250 lb or less at joint(s) except 1=877(LC 24), 14=1014(LC 2), 11=854(LC 25),

17=825(LC 27), 18=2035(LC 20)

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

TOP CHORD 1-2=-1428/604, 2-4=-1113/564, 4-5=-213/453, 5-6=-159/436, 6-7=-159/436,

7-8=-212/434, 8-10=-1129/533, 10-11=-1400/574

BOT CHORD 1-21=-412/1197, 19-21=-245/624, 12-14=-235/611, 11-12=-404/1181 WFBS 19-23=-632/48, 5-23=-427/69, 6-22=-397/222, 14-24=-338/0, 7-24=-432/52, 8-14=-844/329, 8-12=-65/750, 10-12=-433/285, 17-25=-711/43, 4-19=-863/342,

4-21=-77/771, 2-21=-420/281

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 22-23, 22-25, 24-25; Wall dead load (5.0psf) on member(s).19-23, 17-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 17-18
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 1=117, 11=178
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



May 10,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

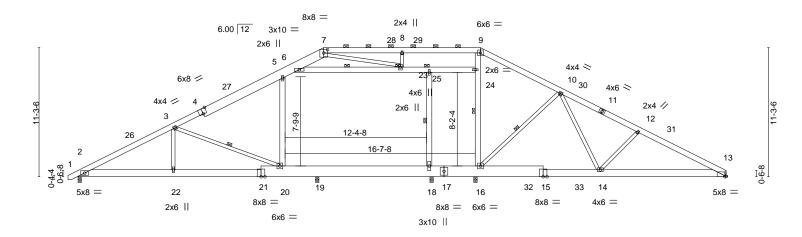
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



D:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0₁10₋₈ 8-4-0 18-1-4 21-5-12 28-4-0 35-2-4 42-0-12 48-11-4 56-8-0 0-10-8 8-4-0 9-9-4 3-4-8 6-10-4 6-10-8 6-10-8 7-8-12

Scale = 1:100.7



		8-4-0	18-1-4	20-9-4	31-0-1		34-10-12	45-6-		56-8-0	
		8-4-0	9-9-4	2-8-0	10-3-	8 '	3-10-0 0-5 ¹ -8	10-3-1	12	11-2-0	<u>'</u>
Plate Offset	ts (X,Y)	[4:0-4-0,Edge], [7:0-4-	0,0-3-8], [13:0-1-	6.Edgel							
		1 7 0 1/1	7 - 27 -								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.10 20-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.23 20-22	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03 13	n/a	n/a		
BCDL	10.0	Code IRC2015	TPI2014	Matri	x-S	Wind(LL)	0.09 20-22	>999	240	Weight: 545 lb	FT = 20%
				1	-	(/			-	- J	

35-2-4

LUMBER- BRACING-

TOP CHORD 2x6 SP No.1 *Except* TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except

4-7: 2x10 SP No.1 2-0-0 oc purlins (6-0-0 max.): 7-9.

BOT CHORD 2x8 SP No.1 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 15-17,17-21: 2x12 SP No.1 7-8-13 oc bracing: 19-20

15-17,17-21: 2x12 SP No.1 7-8-13 oc bracing: 19-20 2x4 SP No.2 *Except* 6-8-13 oc bracing: 18-19.

5-20,9-16,6-24,18-25: 2x6 SP No.1 WEBS 1 Row at midpt 3-20, 9-16, 10-16, 6-23, 18-25
JOINTS 1 Brace at Jt(s): 23, 25

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

(lb) - Max Horz 2=146(LC 9)

(Ib) - Max Horz 2=146(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 16=-149(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=1065(LC 24), 16=1169(LC

21), 13=1051(LC 1), 18=1075(LC 27), 19=2065(LC 20)

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

TOP CHORD 2-3=-1803/260, 3-5=-730/132, 5-6=-753/254, 6-7=-618/266, 7-8=-541/259,

8-9=-542/259, 9-10=-636/262, 10-12=-1469/369, 12-13=-1770/410

BOT CHORD 2-22=-135/1514, 20-22=-135/1514, 19-20=0/548, 18-19=0/548, 16-18=0/548, 14-16=-39/987, 13-14=-258/1522

WEBS 3-20=-1059/315, 5-20=-743/245, 8-23=-394/243, 9-24=-266/148, 10-16=-781/336,

10-14=-73/662, 12-14=-434/285, 3-22=0/511, 18-25=-827/49

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) *This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-23, 23-25, 24-25; Wall dead load (5.0psf) on member(s).5-20, 18-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 18-19
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (it=lb) 16=149.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



TRENCO

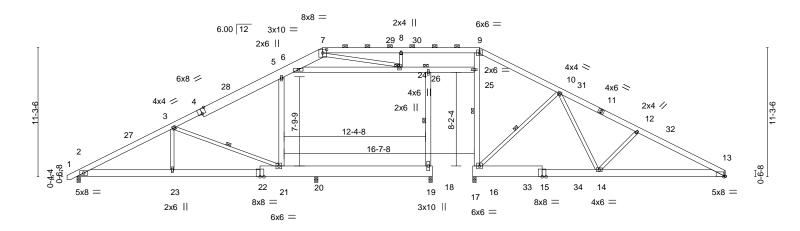
A MiTek 818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266741 J0423-1890 A4X **ROOF TRUSS** l٥ Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:01 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

28-4-0 6-10-4

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 35-2-4 6-10-4 56-8-0 7-8-12 <u>48-11-4</u> 6-10-8

6-10-8

Scale = 1:100.7



	1	8-4-0	18-1-4	20-9-4	31-0-1	2 3	34-10-12	45-6-0		56-8-0	
		8-4-0	9-9-4	2-8-0	10-3-8	В	3-10-0 0-3 ^l -8	10-3-12		11-2-0	ı
Plate Offse	ets (X,Y)	[4:0-4-0,Edge], [7:0-4-0,	0-3-8], [13:0-1	-6.Edgel							
			7/ 1	, , , , , , , , , , , , , , , , , , , 							
LOADING	(nef)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d		PLATES	GRIP
	(I -)						(/				
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.13 21-23	>999 360)	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.27 21-23	>907 240)		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.08 13	n/a n/a	.		
				1		- (- /					
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.10 21-23	>999 240)	Weight: 528 lb	FT = 20%

LUMBER-BRACING-

18-1-4 9-9-4

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

4-7: 2x10 SP No.1 2-0-0 oc purlins (10-0-0 max.): 7-9.

BOT CHORD 2x8 SP No.1 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 15-17,18-22: 2x12 SP No.1

6-6-12 oc bracing: 20-21 5-8-15 oc bracing: 19-20.

35-2-4

5-21,9-16,6-25,19-26: 2x6 SP No.1 **WEBS** 1 Row at midpt 3-21, 9-16, 10-16, 19-26 **JOINTS** 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=146(LC 9) (lb) -

2x4 SP No.2 *Except*

-0-10-8 0-10-8

Max Uplift All uplift 100 lb or less at joint(s) 2, 16 except 13=-177(LC 13)

All reactions 250 lb or less at joint(s) except 2=812(LC 24), 16=956(LC Max Grav

21), 13=856(LC 25), 19=1086(LC 27), 20=2184(LC 20)

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

TOP CHORD 2-3=-1273/468, 3-5=-170/358, 5-6=-306/435, 6-7=-450/332, 7-8=-169/431,

8-9=-169/430, 9-10=-212/433, 10-12=-1130/532, 12-13=-1401/574 2-23=-280/1041, 21-23=-280/1041, 14-16=-235/610, 13-14=-404/1182

BOT CHORD WEBS 3-21=-1129/304, 5-21=-886/192, 8-24=-395/243, 16-25=-273/0, 9-25=-440/47,

10-16=-839/330, 10-14=-65/751, 12-14=-435/285, 3-23=0/540, 6-24=0/377, 7-24=-402/0,

19-26=-934/15

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-24, 24-26, 25-26; Wall dead load (5.0psf) on member(s).5-21, 19-26
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-21, 19-20
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266742 J0423-1890 A5 **ROOF TRUSS** 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:02 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

28-4-0 6-10-4

6-10-8

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

3-19, 9-16, 10-16, 18-25

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

2-0-0 oc purlins (6-0-0 max.): 7-9.

6-0-0 oc bracing: 18-19,16-18.

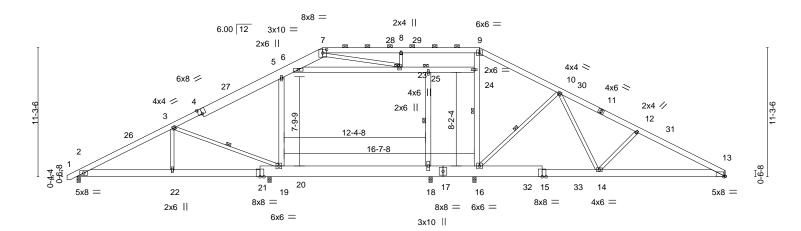
1 Row at midpt

1 Brace at Jt(s): 23, 25

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 35-2-4 6-10-4 56-8-0 7-8-12 <u>48-11-4</u>

6-10-8

Scale = 1:100.7



		8-4-0	16-8-4	18-1-4	31-0-12	1	34-10-12	45-6-0		56-8-0	
	1	8-4-0	8-4-4	¹ 1-5-0 ¹	12-11-8	U.	3-10-0 0-3 ¹ -8	10-3-12		11-2-0	<u> </u>
Plate Offsets	s (X,Y)	[4:0-4-0,Edge], [7:0-4-	0,0-3-8], [13:0-	1-6,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
	20.0	Plate Grip DOL		TC	0.24	Vert(LL)	-0.10 18-19		360	MT20	244/190
	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.17 18-19		240		
BCLL	0.0 *	Rep Stress Incr		WB	0.74	Horz(CT)	0.02 13		n/a		
BCDL 1	10.0	Code IRC2015	/TPI2014	Matr	ix-S	Wind(LL)	0.03 2-22	>999 2	240	Weight: 545 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

JOINTS

35-2-4

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 *Except* 4-7: 2x10 SP No.1

-0-10-8 0-10-8

BOT CHORD 2x8 SP No.1 *Except* 15-17,17-21: 2x12 SP No.1

WEBS 2x4 SP No.2 *Except* 5-19,9-16,6-24,18-25: 2x6 SP No.1

All bearings 0-3-8 except (jt=length) 13=Mechanical.

REACTIONS. Max Horz 2=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 16=-219(LC 13) All reactions 250 lb or less at joint(s) except 2=771(LC 24), 16=786(LC Max Grav

25), 13=919(LC 25), 18=2049(LC 2), 20=1711(LC 20)

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

TOP CHORD 2-3=-1022/165, 3-5=-343/111, 5-6=-441/179, 6-7=-466/236, 9-10=-271/159,

10-12=-1194/271, 12-13=-1487/313

BOT CHORD 2-22=-82/820, 20-22=-82/842, 19-20=-82/820, 18-19=-64/291, 16-18=-64/291,

14-16=0/718, 13-14=-171/1269

WEBS 3-19=-661/292, 5-19=-917/295, 8-23=-386/241, 9-24=-391/178, 10-16=-806/337,

10-14=-77/700, 12-14=-434/286, 3-22=-1/270, 18-25=-848/52

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-23, 23-25, 24-25; Wall dead load (5.0psf) on member(s).5-19, 18-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.





28-4-0 6-10-4 35-2-4 6-10-4

6-10-8

56-8-0 7-8-12

<u>48-11-4</u>

6-10-8

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

3-20, 9-16, 10-16, 19-26

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

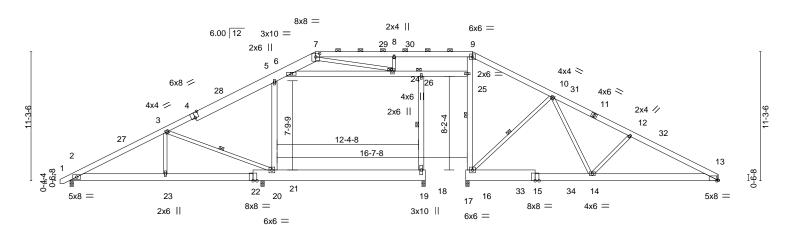
2-0-0 oc purlins (6-0-0 max.): 7-9.

5-2-13 oc bracing: 19-20.

1 Brace at Jt(s): 24, 26

1 Row at midpt

Scale = 1:100.7



		0-4-0	10-0-4	10-1-4	31-0-12		34-10-12	45-6-0		30-0-0	
	1	8-4-0	8-4-4	¹ 1-5-0 ¹	12-11-8	Į.	3-10-0 0-3 ¹ -8	10-3-12		11-2-0	ı.
Plate Offset	ts (X,Y)	[4:0-4-0,Edge], [7:0-4-0,0-3-8], [13:0	-1-6,Edge]							
	(0	004000				555		1/1 0		DI 4750	
LOADING	(pst)	SPACING	i - 2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip	DOL 1.15	TC	0.25	Vert(LL)	-0.17 19-20	>975	360	MT20	244/190
TCDL	10.0	Lumber D	OL 1.15	BC	0.77	Vert(CT)	-0.28 19-20	>597	240		
BCLL	0.0 *	Rep Stres	s Incr YES	WB	0.77	Horz(CT)	0.05 13	n/a	n/a		
BCDL	10.0	Code IRC	2015/TPI2014	Mati	ix-S	Wind(LL)	0.03 13-14	>999	240	Weight: 528 lb	FT = 20%
						- (/					

BOT CHORD

WEBS

JOINTS

31_0_12

35-2-4

34-10-12

LUMBER- BRACING-

18-1-4 9-9-4

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

16-8-4

18-1-4

4-7: 2x10 SP No.1 BOT CHORD 2x8 SP No.1 *Except* 15-17,18-22: 2x12 SP No.1

WEBS 2x4 SP No.2 *Except* 5-20,9-16,6-25,19-26: 2x6 SP No.1

-0-10-8 0-10-8

All bearings 0-3-8 except (jt=length) 13=Mechanical.

REACTIONS. All bearings 0-3-8 exce (lb) - Max Horz 2=146(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-107(LC 12), 13=-177(LC

13)

Max Grav All reactions 250 lb or less at joint(s) except 2=653(LC 1), 16=964(LC 21),

13=858(LC 25), 19=1462(LC 26), 21=1924(LC 20)

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

TOP CHORD 2-3=-751/471, 3-5=-161/356, 5-6=-316/437, 6-7=-401/321, 7-8=-199/437, 8-9=-199/437,

9-10=-218/435, 10-12=-1133/534, 12-13=-1405/576

BOT CHORD 2-23=-276/579, 21-23=-276/611, 20-21=-276/579, 14-16=-236/613, 13-14=-406/1185 WEBS 3-20=-627/299, 5-20=-947/209, 8-24=-386/241, 16-25=-284/0, 9-25=-435/46,

10-16=-839/331, 10-14=-65/750, 12-14=-434/285, 6-24=0/342, 7-24=-341/0,

19-26=-877/0

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-24, 24-26, 25-26; Wall dead load (5.0psf) on member(s).5-20, 19-26
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=107, 13=177.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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



818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266744 **ROOF TRUSS** J0423-1890 A6 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:05 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

6-10-4

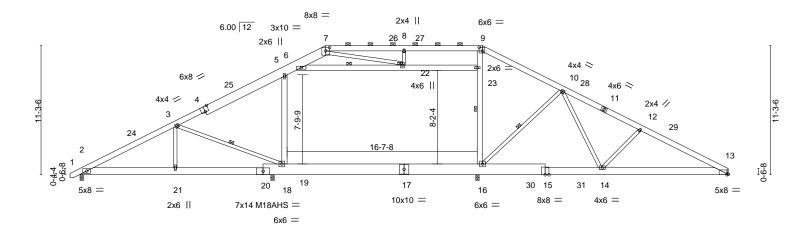
21-5-12

3-4-8

9-9-4

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 48-11-4 35-2-4 56-8-0 6-10-4 6-10-8 6-10-8 7-8-12

Scale = 1:100.7



	8-4-0	8-4-4	1-5-0	16-9-8	0-3-8	10-3-12	11-2-0	'
Plate Offsets (X,Y)	[4:0-4-0,Edge], [7:0-4-0),0-3-8], [9:0-3	-8,0-3-12], [13:0-1-6,Edge]					
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 0.58	Vert(LL)	-0.30 16-18	>730 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.47 16-18	>461 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.06 13	n/a n/a		
BCDL 10.0	Code IRC2015/	TPI2014	Matrix-S	Wind(LL)	0.03 13-14	>999 240	Weight: 525 lb	FT = 20%

34-10-12

LUMBER-BRACING-

16-8-4

1.8-1-4

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

4-7: 2x10 SP No.1

BOT CHORD 2x8 SP No.1 *Except* 15-17,17-20: 2x12 SP No.1

-0₋10-8 0-10-8

8-4-0

WEBS 2x4 SP No.2 *Except*

5-18,9-16,6-23: 2x6 SP No.1

Structural wood sheathing directly applied or 4-8-10 oc purlins,

35₇2-4

2-0-0 oc purlins (5-2-11 max.): 7-9.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. **WEBS** 1 Row at midpt 3-18, 16-23, 10-16, 6-22 **JOINTS** 1 Brace at Jt(s): 22

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 13

All reactions 250 lb or less at joint(s) except 2=1180(LC 24), 16=2051(LC Max Grav

21), 13=1351(LC 25), 19=1906(LC 20)

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

TOP CHORD 2-3=-1869/333, 3-5=-1375/215, 5-6=-1451/340, 6-7=-849/291, 7-8=-1396/365,

8-9=-1396/364, 9-10=-1349/328, 10-12=-2108/485, 12-13=-2412/527 **BOT CHORD** 2-21=-151/1570, 19-21=-151/1587, 18-19=-151/1570, 16-18=-24/1172, 14-16=-149/1602,

13-14=-362/2097

3-18=-431/292, 5-18=-869/303, 16-23=-280/129, 10-16=-640/362, 10-14=-126/533,

12-14=-446/285, 6-22=-597/131, 7-22=-163/845

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-22, 22-23; Wall dead load (5.0psf) on member(s).5-18, 16-23
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



56-8-0



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



Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266745 J0423-1890 A6GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:08 2023 Page 1

6-10-4

6-10-4

Fayetteville, NC - 28314, Comtech, Inc.

8-4-0

-0₁10-8 0-10-8

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6-10-8

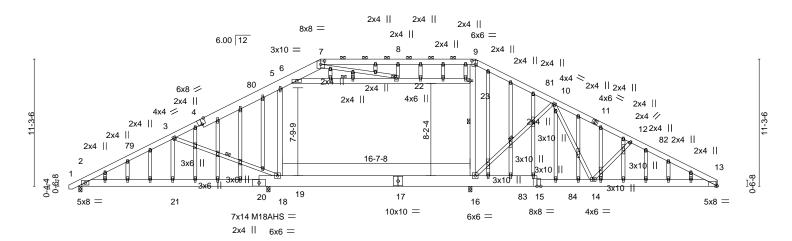
6-10-8

Scale = 1:102.2

7-8-12

Structural wood sheathing directly applied or 4-8-10 oc purlins,

3-18, 16-23, 10-16, 6-22



		8-4-0	16-8-4	18-1-4		10-12	35 ₇ 2-4	45-6	6-0	56-8-0	
		8-4-0	8-4-4	1-5-0	16	6-9-8	0-3-8	10-3	-12	11-2-0	I .
Plate Offse	ets (X,Y)	[4:0-4-0,Edge], [7:0-4-0	,0-3-8], [9:0-3-	3,0-3-12], [13	:0-1-6,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
ΓCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.30 16-18	>730	360	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.47 16-18	>461	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06 13	n/a	n/a		
BCDL	10.0	Code IRC2015/7	TPI2014	Matri	ix-S	Wind(LL)	0.05 13-14	>999	240	Weight: 648 lb	FT = 20%

BOT CHORD

WEBS

JOINTS

2-0-0 oc purlins (5-2-11 max.): 7-9.

1 Row at midpt

1 Brace at Jt(s): 22

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

LUMBER-**BRACING-**

9-9-4

3-4-8

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

4-7: 2x10 SP No.1

BOT CHORD 2x8 SP No.1 *Except* 15-17,17-20: 2x12 SP No.1

WEBS 2x4 SP No.2 *Except*

5-18,9-16,6-23: 2x6 SP No.1

OTHERS 2x4 SP No 2

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=232(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-135(LC 9), 13=-171(LC

8), 19=-137(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 2=1180(LC 24), 16=2029(LC

21), 13=1351(LC 25), 19=1882(LC 2)

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

TOP CHORD 2-3=-1869/455, 3-5=-1375/338, 5-6=-1451/412, 6-7=-849/367, 7-8=-1396/453, 8-9=-1396/453, 9-10=-1348/397, 10-12=-2108/739, 12-13=-2412/830

2-21=-331/1570, 19-21=-331/1587, 18-19=-331/1570, 16-18=-204/1172, 14-16=-187/1602,

13-14=-581/2097

WEBS 3-18=-431/524, 5-18=-869/526, 16-23=-280/267, 9-23=-45/269, 10-16=-640/564.

10-14=-270/533, 12-14=-446/466, 6-22=-597/131, 7-22=-187/845

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 4-11-6, Exterior(2) 4-11-6 to 21-5-12, Corner(3) 21-5-12 to 27-1-12, Exterior(2) 27-1-12 to 35-2-4, Corner(3) 35-2-4 to 40-10-4, Exterior(2) 40-10-4 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 2x6 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-22, 22-23; Wall dead load (5.0psf) on member(s). 5-18, 16-23
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18

OவிtiRefer to girder(2) for truss to truss connections.



May 10,2023

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

Design valid for use only with MiTek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 1 Overhills Creek/Harnett
					158266745
J0423-1890	A6GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:09 2023 Page 2 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=135, 13=171, 19=137.

 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266746 J0423-1890 B1GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:10 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-0-8 20-1-0 10-0-8 10-0-8

> Scale = 1:70.4 5x5 =

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

Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 7-18, 6-19, 8-17

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

Brace must cover 90% of web length.

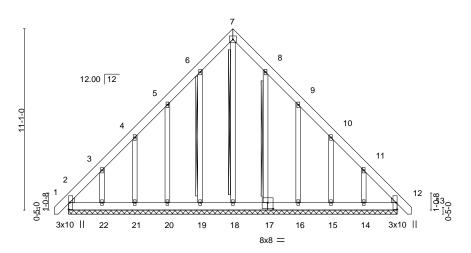


Plate Offsets (X,Y) [17:0-4-0,0-4-8]												
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 197 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 20-1-0. Max Horz 2=-324(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 12 except 2=-125(LC 10),

19=-106(LC 12), 20=-154(LC 12), 21=-135(LC 12), 22=-228(LC 12), 16=-159(LC

13), 15=-134(LC 13), 14=-222(LC 13)

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

except 2=306(LC 12), 12=270(LC 13)

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

TOP CHORD 2-3=-444/267, 11-12=-398/264

BOT CHORD 2-22=-202/315, 21-22=-204/315, 20-21=-205/316, 19-20=-205/316, 18-19=-205/316, 17-18=-205/316, 16-17=-207/317, 15-16=-207/317, 14-15=-206/316, 12-14=-205/315

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 10-0-8, Corner(3) 10-0-8 to 14-5-5, Exterior(2) 14-5-5 to 20-10-2 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=125, 19=106, 20=154, 21=135, 22=228, 16=159, 15=134, 14=222.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



 Job
 Truss
 Truss Type
 Qty
 Ply
 Wellco/Lot 1 Overhills Creek/Harnett

 J0423-1890
 B2GDR
 FINK
 1
 2

Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:11 2023 Page 1

5x8 || Scale = 1:70.4

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

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

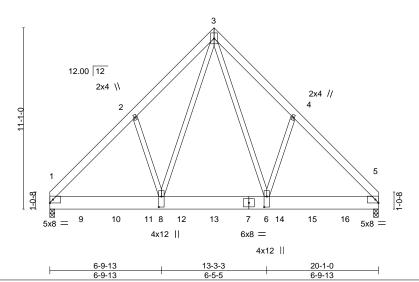


Plate Offsets (X,Y)--[6:0-7-12,0-2-0], [8:0-7-12,0-2-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.05 1-8 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.30 Vert(CT) -0.10 1-8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.53 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 240 Weight: 386 lb FT = 20%Matrix-S 0.04 1-8 >999

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP 2400F 2.0E WEBS 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=249(LC 24)

Max Uplift 1=-227(LC 9), 5=-280(LC 8) Max Grav 1=5840(LC 1), 5=4627(LC 1)

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

TOP CHORD 1-2=-5772/308, 2-3=-5525/418, 3-4=-4981/448, 4-5=-5199/337

BOT CHORD 1-8=-228/3845, 6-8=-120/2579, 5-6=-160/3449

WEBS 2-8=-265/376, 3-8=-287/4330, 3-6=-358/2980, 4-6=-267/370

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 5=280.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1331 lb down and 44 lb up at 1-11-4, 1331 lb down and 44 lb up at 3-11-4, 1331 lb down and 44 lb up at 5-11-4, 899 lb down and 56 lb up at 9-11-4, 1031 lb down and 49 lb up at 11-11-4, 687 lb down and 76 lb up at 13-11-4, and 687 lb down and 76 lb up at 15-11-4, and 687 lb down and 76 lb up at 15-11-4, and 687 lb down and 76 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-5=-20, 1-3=-60, 3-5=-60



May 10,2023

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266747 FINK B2GDR J0423-1890

Comtech, Inc, Fayetteville, NC - 28314,

| **Z** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:11 2023 Page 2 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 7=-1031(B) 9=-1331(B) 10=-1331(B) 11=-1331(B) 12=-899(B) 13=-899(B) 14=-687(B) 15=-687(B) 16=-687(B)

818 Soundside Road Edenton, NC 27932



Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266748 COMMON J0423-1890 P1 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:12 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-10-8 7-0-0 0-10-8

7-0-0

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

Rigid ceiling directly applied or 9-11-12 oc bracing.

Scale = 1:26.8

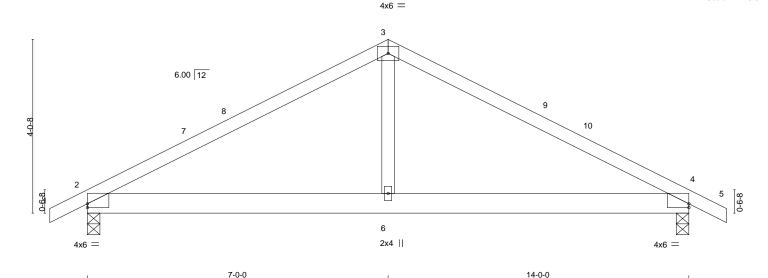


Plate Offsets (X,Y) [2:0-0-0,0-1-1], [4:Edge,0-1-1]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP								
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.02 4-6 >999 360 MT20 244/190								
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.05 4-6 >999 240								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01 4 n/a n/a								
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 4-6 >999 240 Weight: 64 lb FT = 20%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-51(LC 10)

Max Uplift 2=-125(LC 9), 4=-125(LC 8) Max Grav 2=610(LC 1), 4=610(LC 1)

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

TOP CHORD 2-3=-772/772, 3-4=-772/772 **BOT CHORD** 2-6=-552/592, 4-6=-552/592

WFBS 3-6=-462/352

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0, Exterior(2) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 14-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7-0-0 7-0-0

- 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) except (jt=lb) 2=125, 4=125.

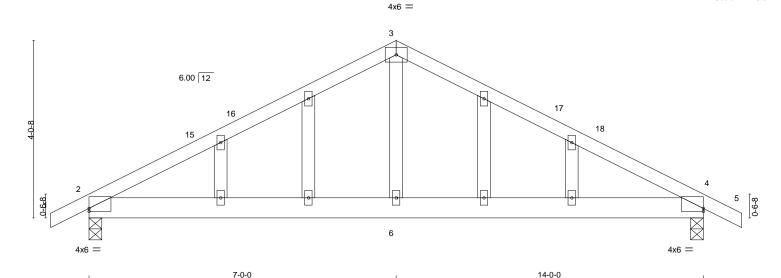




Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266749 J0423-1890 P1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:13 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-10-8 7-0-0 7-0-0 0-10-8

Scale = 1:26.3



	7-0-0		1		7-0-0						
Plate Offsets (X,Y) [2:0-0-0,0-0-13], [4:Edge,0-0-13]											
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.45	DEFL. Vert(LL) -0.	in (loc)	l/defl L/d >999 360	_	GRIP 244/190				
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.22 WB 0.08	Vert(CT) -0. Horz(CT) 0.	.05 4-6 .01 4	>999 240 n/a n/a	-					
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0	.03 2-6	>999 240	Weight: 75 lb	FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

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

Max Horz 2=80(LC 16)

Max Uplift 2=-141(LC 12), 4=-141(LC 13) Max Grav 2=610(LC 1), 4=610(LC 1)

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

TOP CHORD 2-3=-772/461, 3-4=-772/461 **BOT CHORD** 2-6=-211/592, 4-6=-211/592

WEBS 3-6=-11/352

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 7-0-0, Corner(3) 7-0-0 to 11-4-13, Exterior(2) 11-4-13 to 14-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 4=141.



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

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

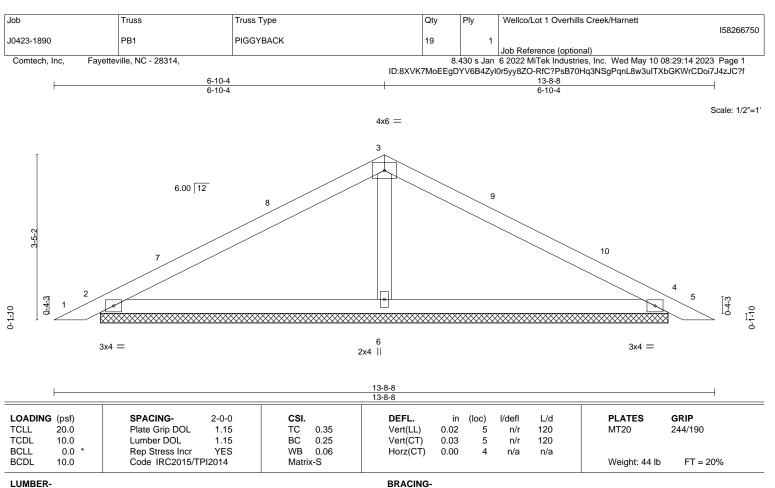
May 10,2023

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

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

2=11-9-6, 4=11-9-6, 6=11-9-6 (size) Max Horz 2=43(LC 11) Max Uplift 2=-38(LC 12), 4=-46(LC 13)

Max Grav 2=258(LC 23), 4=258(LC 24), 6=508(LC 1)

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

WEBS 3-6=-328/176

NOTES-

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



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

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

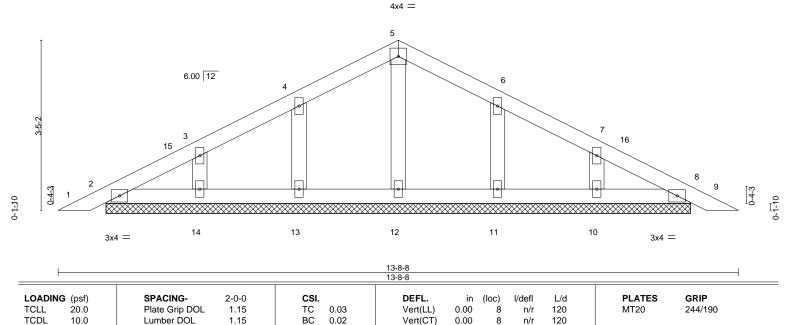


Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266751 J0423-1890 PB1GE **GABLE** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:15 2023 Page 1

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-10-4 6-10-4 6-10-4

Scale = 1:23.2



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

8

n/a

n/a

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

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

Weight: 52 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

OTHERS 2x4 SP No.2

REACTIONS. All bearings 11-9-6. Max Horz 2=66(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

YES

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.

Rep Stress Incr

Code IRC2015/TPI2014

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-15 to 4-10-4, Interior(1) 4-10-4 to 6-10-4, Exterior(2) 6-10-4 to 11-3-1, Interior(1) 11-3-1 to 13-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.02

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Wellco/Lot 1 Overhills Creek/Harnett 158266752 J0423-1890 VA1 **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:16 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

7-6-10 7-6-10

> Scale = 1:45.0 4x4 =

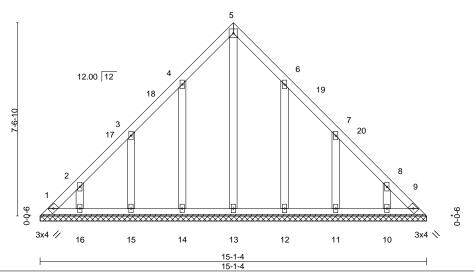


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	oc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/a	- n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	- n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 90 lb FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 15-1-4.

(lb) -Max Horz 1=-216(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-142(LC 12), 15=-144(LC 12), 16=-124(LC 12),

12=-140(LC 13), 11=-145(LC 13), 10=-124(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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

TOP CHORD 1-2=-289/179, 8-9=-255/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-6-10, Exterior(2) 7-6-10 to 11-11-7, Interior(1) 11-11-7 to 14-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=142, 15=144, 16=124, 12=140, 11=145, 10=124.





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266753 J0423-1890 VA2 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:17 2023 Page 1

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-6-10 6-6-10

> Scale = 1:42.5 4x4 =

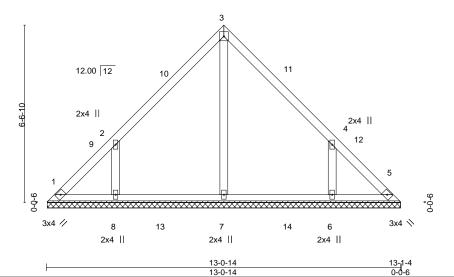


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-L/d **PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.09 0.00 5 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 60 lb Matrix-S

LUMBER-

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

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

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

REACTIONS. All bearings 13-0-8.

Max Horz 1=-149(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 12), 6=-163(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=386(LC 19), 8=376(LC 19), 6=376(LC 20)

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

WEBS 2-8=-358/290, 4-6=-358/290

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-6-10, Exterior(2) 6-6-10 to 10-11-7, Interior(1) 10-11-7 to 12-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=163,





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266754 J0423-1890 VA3 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:19 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-6-10 5-6-10

> Scale = 1:36.4 4x4 =

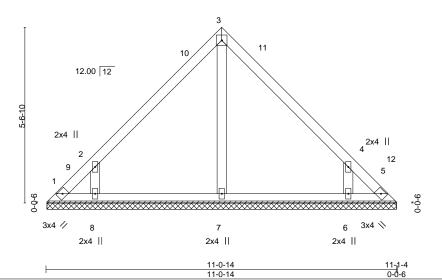


Plate Offsets (X, Y) [4:0-0-0,0-0-0]												
LOADING	(psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	/ES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	14	Matri	x-S						Weight: 49 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 11-0-8.

(lb) -Max Horz 1=-125(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=347(LC 19), 6=347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-373/317, 4-6=-374/318 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-6-10, Exterior(2) 5-6-10 to 9-11-7, Interior(1) 9-11-7 to 10-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=166, 6=166





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266755 J0423-1890 VA4 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:19 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 9-1-4 4-6-10 4-6-10 Scale = 1:30.9 4x4 = 2 12.00 12 3 9-0-0 3x4 / 3x4 \ 4 2x4 II 9-0-14 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC 999 244/190 **TCLL** 0.19 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 37 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. 1=9-0-8, 3=9-0-8, 4=9-0-8 (size) Max Horz 1=101(LC 9)

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

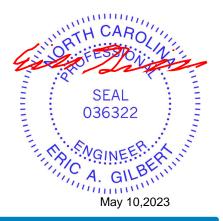
Max Grav 1=191(LC 1), 3=190(LC 1), 4=291(LC 1)

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

NOTES-

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

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



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

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

Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266756 J0423-1890 VA5 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:20 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-6-10 3-6-10 Scale = 1:24.4 4x4 = 2 12.00 12 3 9-0-0 0-0-0 3x4 / 3x4 N 2x4 || 7-1-4 0-0-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC 999 244/190 **TCLL** 0.17 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 28 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=7-0-8, 3=7-0-8, 4=7-0-8 (size) Max Horz 1=77(LC 9) Max Uplift 1=-28(LC 13), 3=-28(LC 13)

Max Grav 1=156(LC 1), 3=156(LC 1), 4=200(LC 1)

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

NOTES-

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



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

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

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 1 Overhil	lls Creek/Harnett	
J0423-1890	VA6	VALLEY	1	1			158266757
J0423-1690	VAB	VALLET	'	'	Job Reference (option	nal)	
Comtech, Inc, Fayet	eville, NC - 28314,			8.430 s Jan	6 2022 MiTek Industr	ies, Inc. Wed May 10 08	3:29:21 2023 Page 1
			ID:8XVK7MoEEg		0r5yy8ZO-RfC?PsB70)Hq3NSgPqnL8w3uITXb	GKWrCDoi7J4zJC?f
		2-6-10 2-6-10	+	5-1-4 2-6-10			
		2-6-10		2-0-10			
							Scale = 1:18.5
			4x4 =				
	T		2				
		12.00 12					
			/ \ `				
	d						
	2-6-10						
	7						
				/ ,	3		
					\		
		1 //		`			
		// /			\longrightarrow		
	9-0-0	<u> </u>				9-0-0	
	5			******		5	
		2.4.4	4		4.5		
		3x4 //	2x4	3.	x4 📏		
		<u> </u>	5-0-14		5-1-4 0-0-6		
1		·	5-0-14		0-0-6		
LOADING (psf)	SPACING- 2-0-	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.1			/a -	n/a 999		244/190
TCDL 10.0	Lumber DOL 1.1			/a -	n/a 999		
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.0		n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	, ,			Weight: 20 lb	FT = 20%
LUMBER-			BRACING-			1	

BOT CHORD

LUMBER-

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

2x4 SP No.2 **OTHERS**

REACTIONS. (size) 1=5-0-8, 3=5-0-8, 4=5-0-8 Max Horz 1=53(LC 11)

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

Max Grav 1=107(LC 1), 3=107(LC 1), 4=138(LC 1)

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

NOTES-

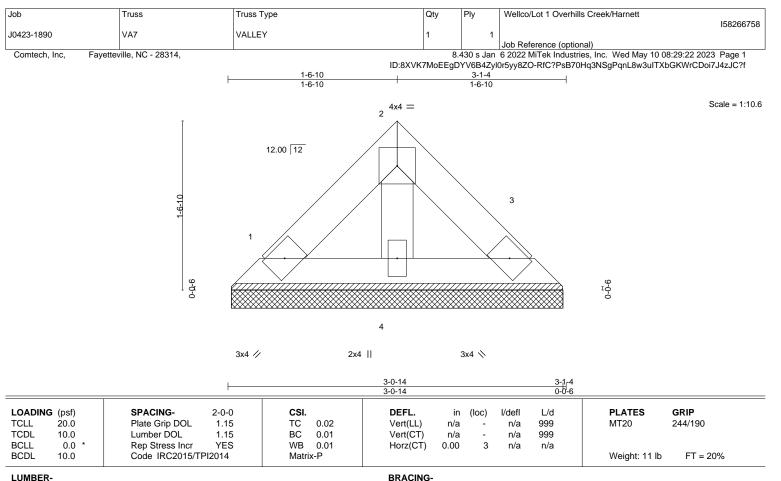
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip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



Structural wood sheathing directly applied or 5-1-4 oc purlins.

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





BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=3-0-8, 3=3-0-8, 4=3-0-8 (size) Max Horz 1=29(LC 9)

Max Uplift 1=-10(LC 13), 3=-10(LC 13) Max Grav 1=58(LC 1), 3=58(LC 1), 4=75(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 3-1-4 oc purlins.

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

Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266759 J0423-1890 VB1 **GABLE** Job Reference (optional)

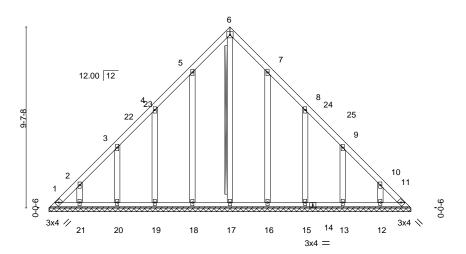
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:24 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

19-3-0 9-7-8 9-7-8

4x4 =

Scale = 1:61.3



19-3-0 19-3-0

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 129 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 6-17

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

REACTIONS. All bearings 19-3-0.

Max Horz 1=-278(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-133(LC 10), 18=-138(LC 12), 19=-142(LC 12),

20=-141(LC 12), 21=-127(LC 12), 16=-135(LC 13), 15=-144(LC 13), 13=-141(LC 13), 12=-127(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 11, 17, 18, 19, 20, 21, 16, 15, 13, 12 except 1=262(LC 12)

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

TOP CHORD 1-2=-384/233, 2-3=-271/194, 10-11=-340/229

BOT CHORD 1-21=-170/259, 20-21=-170/259, 19-20=-170/259, 18-19=-170/259, 17-18=-170/259, 16-17=-170/259, 15-16=-170/259, 13-15=-170/259, 12-13=-170/259, 11-12=-170/259

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-7-8, Exterior(2) 9-7-8 to 14-0-5, Interior(1) 14-0-5 to 18-10-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=133, 18=138, 19=142, 20=141, 21=127, 16=135, 15=144, 13=141, 12=127.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.





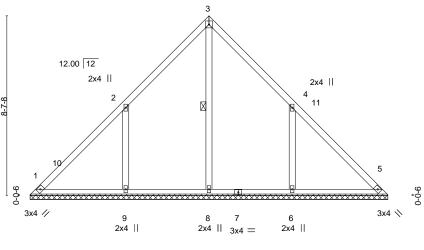
Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266760 J0423-1890 VB2 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:25 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-7-8 8-7-8 8-7-8

> Scale = 1:55.4 4x4 =



17-3-0 0-0-6 17-2-10

_Plate Off	Plate Offsets (X,Y) [4:0-0-0,0-0-0]											
LOADIN TCLL	IG (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.20	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S						Weight: 84 lb	FT = 20%

LUMBER-

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

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

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

WEBS 1 Row at midpt 3-8

REACTIONS. All bearings 17-2-4.

(lb) -Max Horz 1=-198(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-208(LC 12), 6=-208(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=415(LC 22), 9=539(LC 19), 6=539(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-9=-447/332, 4-6=-447/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-7-8, Interior(1) 4-7-8 to 8-7-8, Exterior(2) 8-7-8 to 13-0-5, Interior(1) 13-0-5 to 16-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=208, 6=208





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266761 J0423-1890 VB3 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:26 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4x4 =

Scale = 1:49.2

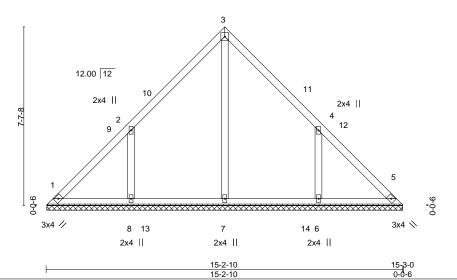


Plate Offsets (X,Y) [4:0-0-0,0-0-0]												
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matri	x-S						Weight: 73 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 15-2-4.

(lb) -Max Horz 1=-174(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-182(LC 12), 6=-182(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=414(LC 22), 8=457(LC 19), 6=456(LC 20)

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

2-8=-395/305, 4-6=-395/305 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 14-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=182, 6=182,





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266762 J0423-1890 VB4 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:27 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-7-8 6-7-8 13-3-0 6-7-8

> Scale = 1:43.0 4x4 =

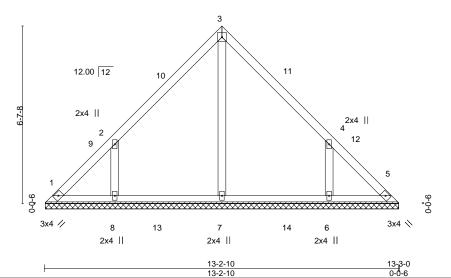


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-L/d **PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.09 0.00 5 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 61 lb Matrix-S

LUMBER-**BRACING-**

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

REACTIONS. All bearings 13-2-4.

2x4 SP No.2

Max Horz 1=-150(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-164(LC 12), 6=-164(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=389(LC 19), 8=380(LC 19), 6=380(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-360/290, 4-6=-360/291

OTHERS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-7-8, Exterior(2) 6-7-8 to 11-0-5, Interior(1) 11-0-5 to 12-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=164,





Job Truss Truss Type Qty Ply Wellco/Lot 1 Overhills Creek/Harnett 158266763 J0423-1890 VB5 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 10 08:29:28 2023 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-7-8 5-7-8 5-7-8

> Scale = 1:36.6 4x4 =

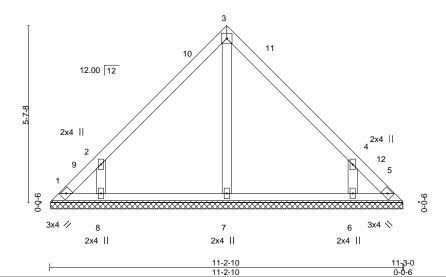


Plate Offsets (X, Y) [4:0-0-0,0-0-0]												
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	12014	Matri	x-S						Weight: 49 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 11-2-4.

(lb) -Max Horz 1=126(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-164(LC 12), 6=-164(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=344(LC 19), 6=344(LC 20)

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

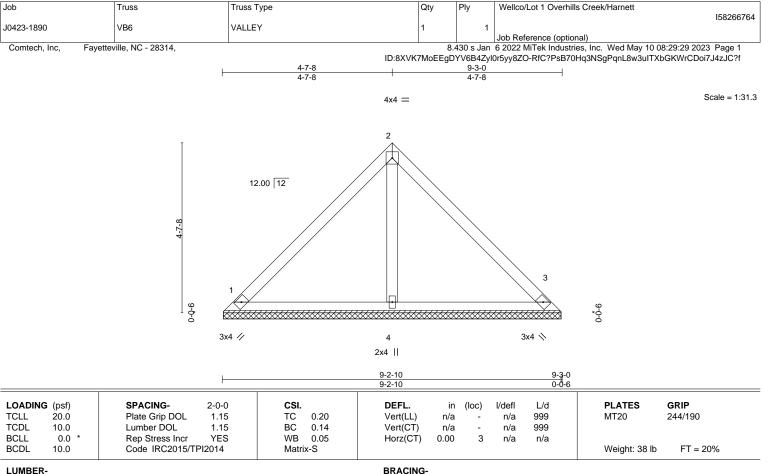
WEBS 2-8=-369/312, 4-6=-369/312

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-7-8, Exterior(2) 5-7-8 to 10-0-5, Interior(1) 10-0-5 to 10-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=164,







BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=9-2-4, 3=9-2-4, 4=9-2-4 (size) Max Horz 1=-102(LC 8)

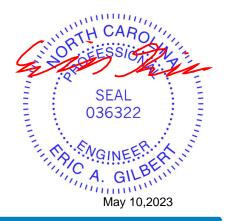
Max Uplift 1=-25(LC 13), 3=-25(LC 13)

Max Grav 1=194(LC 1), 3=194(LC 1), 4=296(LC 1)

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

NOTES-

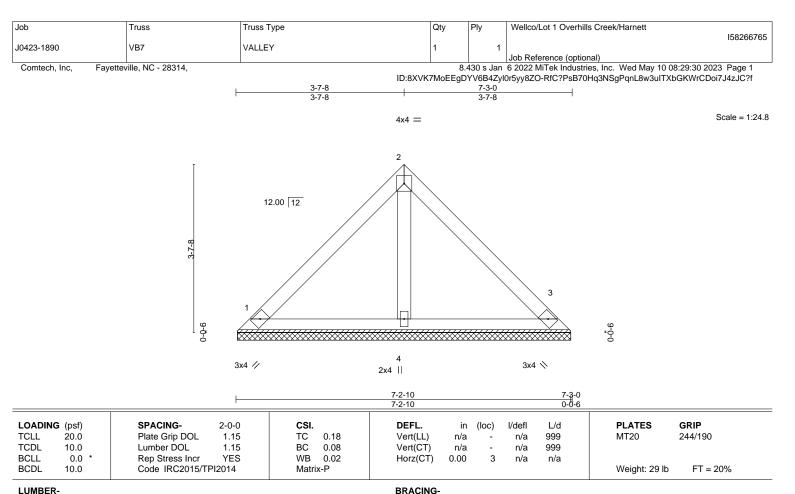
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip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



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

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





BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=7-2-4, 3=7-2-4, 4=7-2-4 (size) Max Horz 1=78(LC 9)

Max Uplift 1=-28(LC 13), 3=-28(LC 13) Max Grav 1=159(LC 1), 3=159(LC 1), 4=205(LC 1)

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

NOTES-

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



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

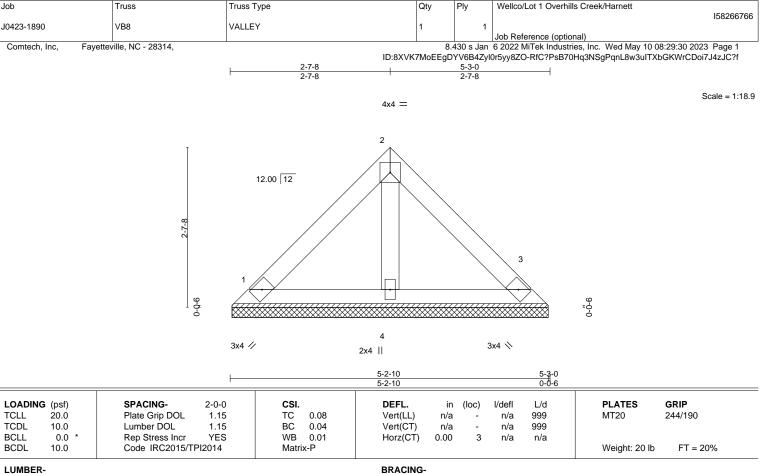
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

Wellco/Lot 1 Overhills Creek/Harnett

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

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

LUMBER-

Job

Truss

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

OTHERS 2x4 SP No.2

REACTIONS.

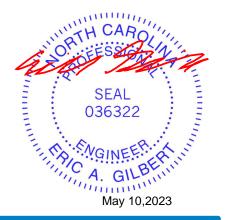
1=5-2-4, 3=5-2-4, 4=5-2-4 (size) Max Horz 1=54(LC 9) Max Uplift 1=-20(LC 13), 3=-20(LC 13)

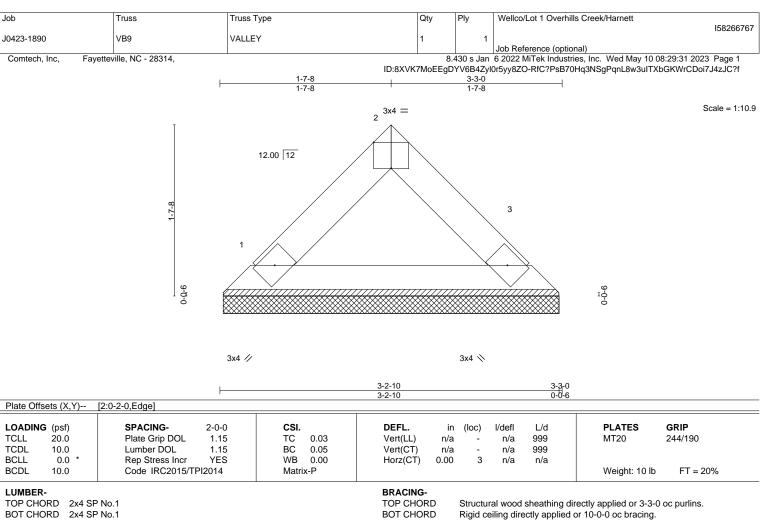
Max Grav 1=111(LC 1), 3=111(LC 1), 4=142(LC 1)

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

NOTES-

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





REACTIONS.

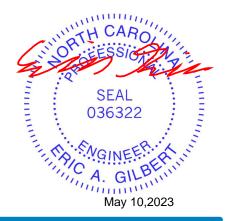
(size) 1=3-2-4, 3=3-2-4

Max Horz 1=-31(LC 8) Max Uplift 1=-3(LC 12), 3=-3(LC 12) Max Grav 1=102(LC 1), 3=102(LC 1)

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

NOTES-

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





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Typ	е	Qty	Ply	Wellco	/Lot 1 Overhills	Creek/Harnett	150000700
J0423-1890	VP1	VALLEY		1		1			158266768
		V/12221		<u> </u>		Job Re	erence (optiona	1)	
Comtech, Inc,	ayetteville, NC - 28314,			ID 000 46714 F					08:29:32 2023 Page 1
		6-11-0		ID:8XVK/MOE	EBDY V6B4Z	yiur5yy8Z0	J-RIC?PSB/0H0 13-10-1	J3NSgPqnL8w3u17	XbGKWrCDoi7J4zJC?f
		6-11-0					6-11-1		
				4x4 =					Scale: 1/2"=1'
3-5-8 9-0-0	2x4 9		10	3		11		2x4 4 12	5 2°0
3x	4 🛩 2x4	8 		7 2x4			6 2x4	:	3x4 <>
0-0-12				13-10-1					
0-0 <u>-12</u> 0-0-12				13-9-5					
Plate Offsets (X,Y)	[4:0-0-0,0-0-0]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015	1.15 YES	CSI. TC 0.13 BC 0.09 WB 0.04 Matrix-S	Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%
BOT CHORD 2x4	SP No.1 SP No.1 SP No.2	1		BRACING- TOP CHORD BOT CHORD				ctly applied or 6-0- 10-0-0 oc bracing.	

REACTIONS.

All bearings 13-8-9.

(lb) - Max Horz 1=-41(LC 8)

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=284(LC 1), 8=305(LC 23), 6=305(LC 24)

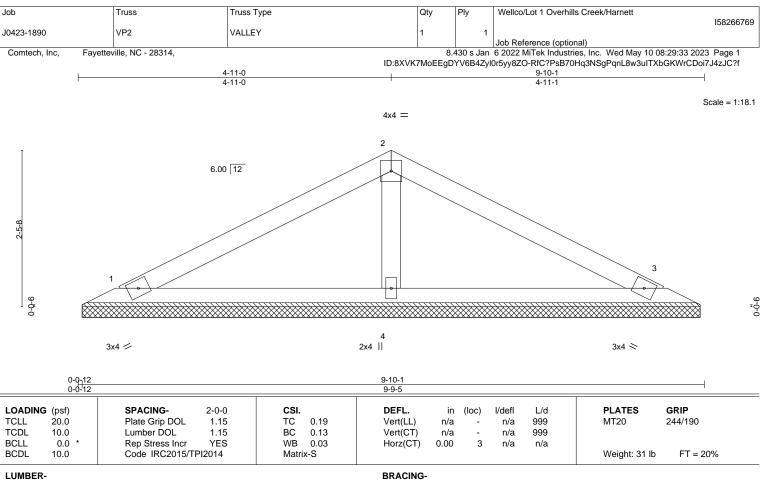
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 6-11-0, Exterior(2) 6-11-0 to 11-3-13, Interior(1) 11-3-13 to 13-2-4 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, 8, 6.
- 6) N/A







BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=9-8-9, 3=9-8-9, 4=9-8-9 (size) Max Horz 1=-28(LC 10) Max Uplift 1=-21(LC 12), 3=-26(LC 13)

Max Grav 1=158(LC 23), 3=158(LC 24), 4=370(LC 1)

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

NOTES-

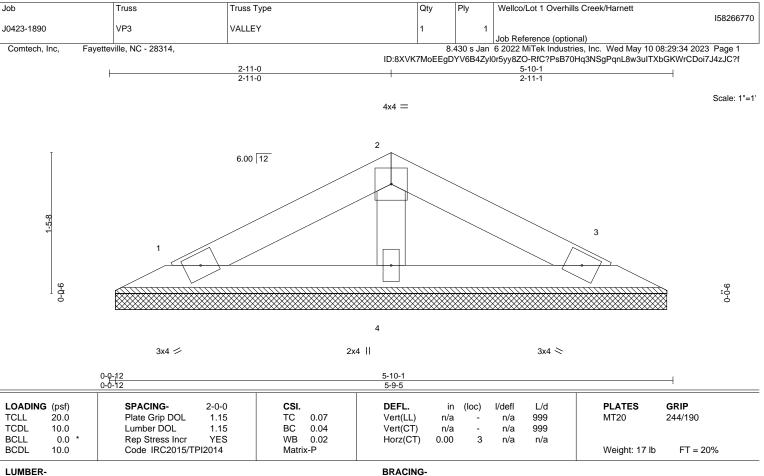
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 6) N/A



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

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





BOT CHORD

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

OTHERS 2x4 SP No.2

REACTIONS.

1=5-8-9, 3=5-8-9, 4=5-8-9 (size) Max Horz 1=15(LC 9)

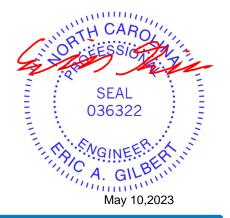
Max Uplift 1=-15(LC 12), 3=-17(LC 13)

Max Grav 1=92(LC 1), 3=93(LC 1), 4=178(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 6) N/A



Structural wood sheathing directly applied or 5-10-1 oc purlins.

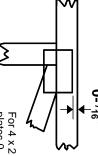
Rigid ceiling directly applied or 10-0-0 oc bracing.

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



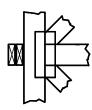
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



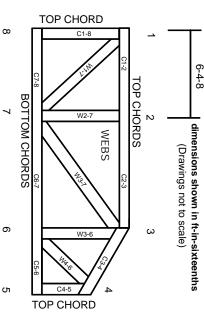
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- 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.

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- 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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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.