

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0120-0162
Centrella Residence

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: E14208628 thru E14208639

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



March 20,2020

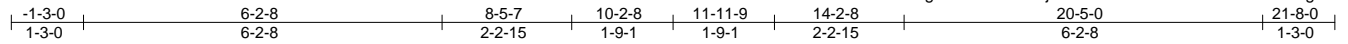
Gilbert, Eric

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.

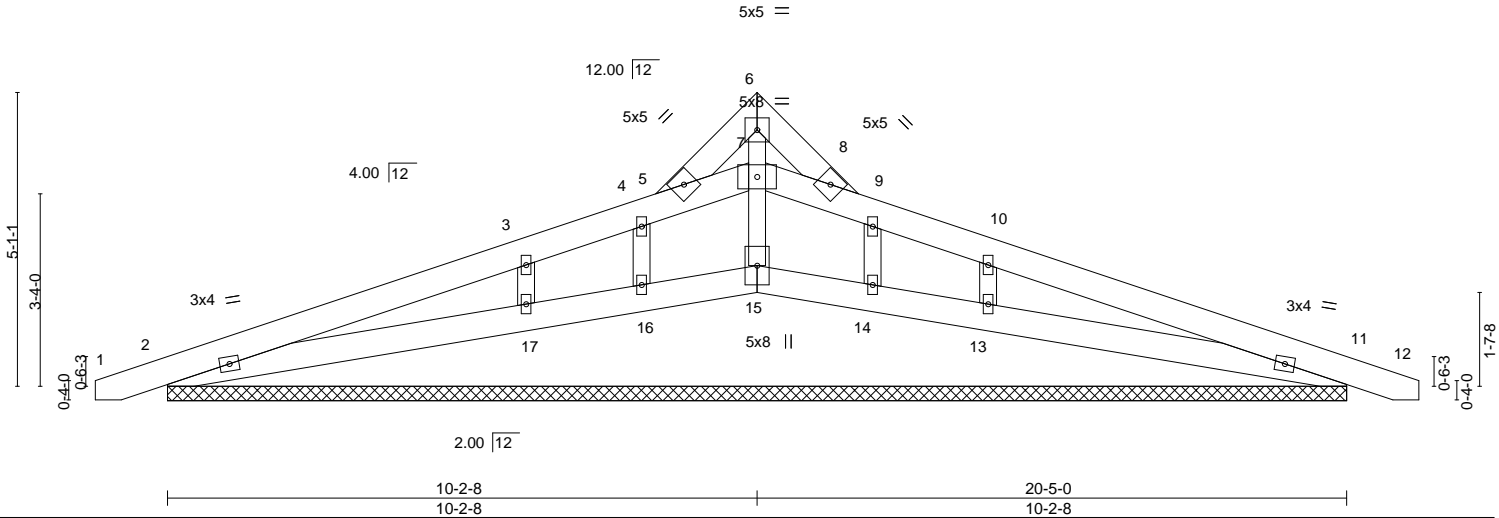
Job J0120-0162	Truss B1-GE	Truss Type GABLE	Qty 1	Ply 1	Centrella Residence Job Reference (optional)	E14208628
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:14 2020 Page 1
ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-b0XbB6kErjC6U44uhLdLEOUVPwJAFDnJ7bkg1zZ4jl



Scale = 1:39.9



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.01	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) 0.01	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 125 lb	FT = 20%

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

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

REACTIONS. All bearings 20-5-0.
(lb) - Max Horz 2=98(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 16, 14 except 2=-125(LC 8), 11=-126(LC 9), 17=-187(LC 12), 13=-187(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15, 16, 14 except 2=269(LC 1), 11=270(LC 1), 17=534(LC 23), 13=534(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-17=-376/274, 10-13=-376/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 14 except (jt=lb) 2=125, 11=126, 17=187, 13=187.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16, 17, 14, 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 20, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



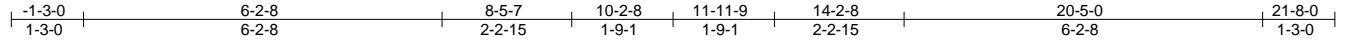
818 Soundside Road
Edenton, NC 27932

Job J0120-0162	Truss B2	Truss Type ROOF SPECIAL	Qty 9	Ply 1	Centrella Residence Job Reference (optional)	E14208629
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:15 2020 Page 1

ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-4D5zOSlsc0Kz6Ef4F28anc1fIKY3_cJSLFTEZTz4jk



Scale = 1:39.9

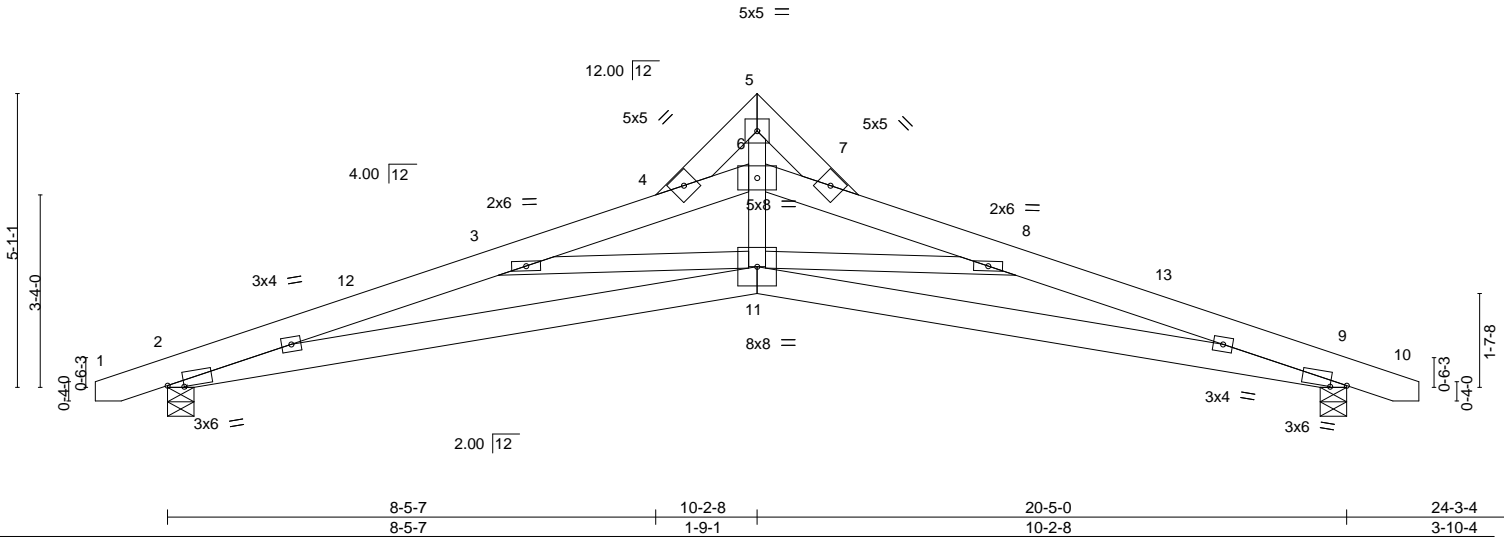


Plate Offsets (X,Y)--	[2:0-3-6,0-0-12], [9:0-3-6,0-0-12]
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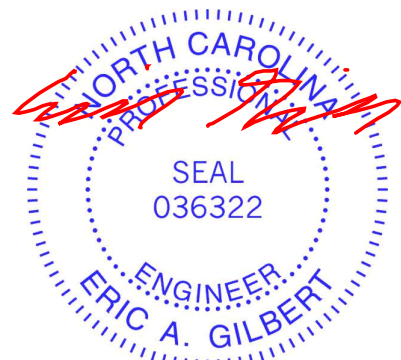
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.14	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.29	2-11	>834	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.14	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	11	>999	240		
							Weight: 133 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=58(LC 12)
 Max Uplift 2=-86(LC 8), 9=-86(LC 9)
 Max Grav 2=874(LC 1), 9=874(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2883/595, 3-4=-2405/379, 4-6=-2280/468, 6-7=-2273/469, 7-8=-2398/367, 8-9=-2885/580
 BOT CHORD 2-11=-509/2706, 9-11=-491/2708
 WEBS 3-11=-498/247, 6-11=-73/1147, 8-11=-506/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 10-2-8, Exterior(2) 10-2-8 to 11-10-1, Interior(1) 11-10-1 to 21-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



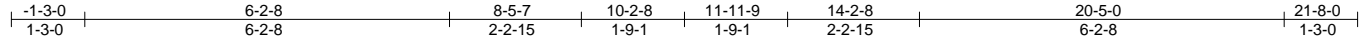
March 20,2020

Job J0120-0162	Truss B3	Truss Type ROOF SPECIAL	Qty 8	Ply 1	Centrella Residence Job Reference (optional)	E14208630
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:16 2020 Page 1

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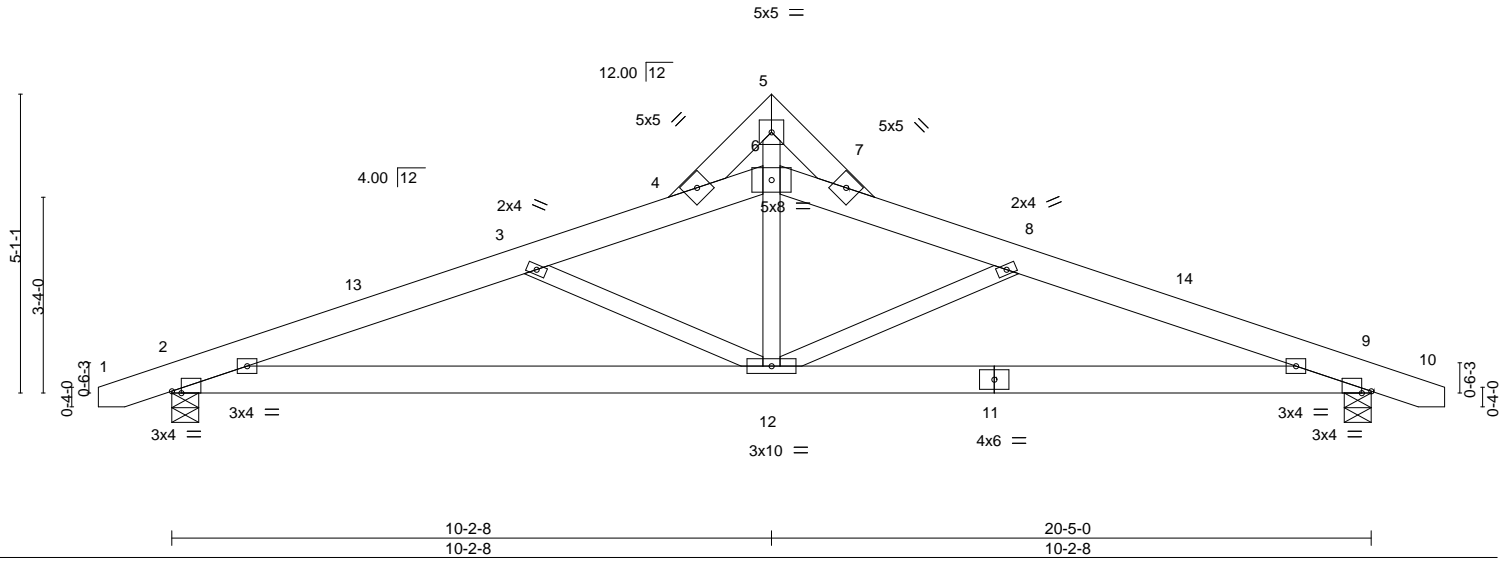


Plate Offsets (X,Y)--	[2:0-1-15,Edge], [9:0-1-15,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.06	2-12	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.13	2-12	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.03	9	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	12	>999	240	
								Weight: 134 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 9=0-5-8, 2=0-5-8
 Max Horz 2=58(LC 16)
 Max Uplift 9=-86(LC 9), 2=-86(LC 8)
 Max Grav 9=874(LC 1), 2=874(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1708/366, 3-4=-1327/235, 4-6=-1227/284, 6-7=-1226/285, 7-8=-1325/235, 8-9=-1708/367
 BOT CHORD 2-12=-277/1570, 9-12=-268/1571
 WEBS 6-12=-29/592, 8-12=-419/196, 3-12=-416/196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 10-2-8, Exterior(2) 10-2-8 to 11-10-1, Interior(1) 11-10-1 to 21-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



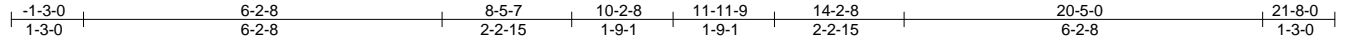
March 20,2020

Job J0120-0162	Truss B4	Truss Type ROOF SPECIAL	Qty 1	Ply 2	Centrella Residence	E14208631
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:17 2020 Page 1

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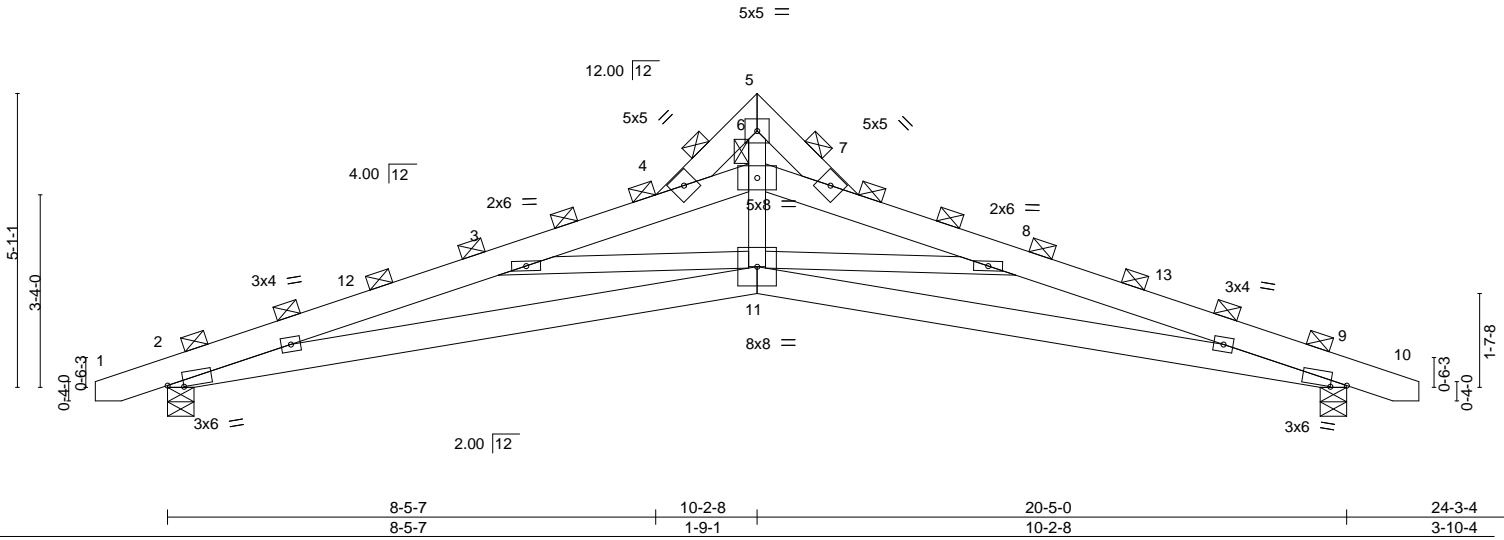


Plate Offsets (X,Y)--	[2:0-3-5,0-0-13], [9:0-3-5,0-0-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.14	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.29	2-11	>835	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.29	Horz(CT) 0.14	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	11	>999	240		
							Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=-116(LC 17)
 Max Uplift 2=-173(LC 8), 9=-173(LC 9)
 Max Grav 2=1747(LC 1), 9=1747(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5762/1189, 3-4=-4807/758, 4-6=-4557/935, 4-5=-345/0, 5-7=-350/0,
 6-7=-4542/937, 7-8=-4792/733, 8-9=-5766/1160
 BOT CHORD 2-11=-1016/5406, 9-11=-982/5410
 WEBS 3-11=-994/495, 6-11=-146/2292, 5-6=-142/339, 8-11=-1010/502

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 10-2-8, Exterior(2) 10-2-8 to 11-10-1, Interior(1) 11-10-1 to 21-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 9=173.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

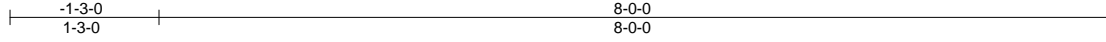
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Centrella Residence	E14208632
J0120-0162	C1-GE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:18 2020 Page 1

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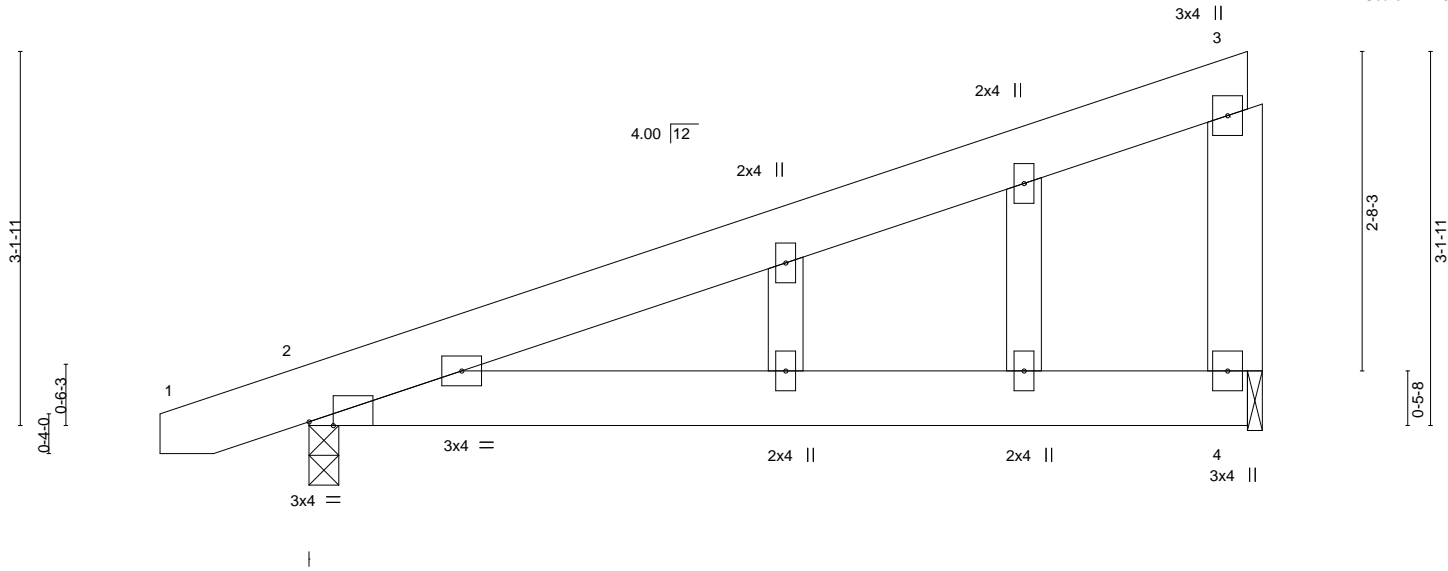


Plate Offsets (X,Y)--		[2:0-2-7,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.09	2-4	>993	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 50 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SP No.1		
OTHERS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=142(LC 8)
 Max Uplift 2=-129(LC 8), 4=-106(LC 12)
 Max Grav 2=380(LC 1), 4=301(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 4=106.



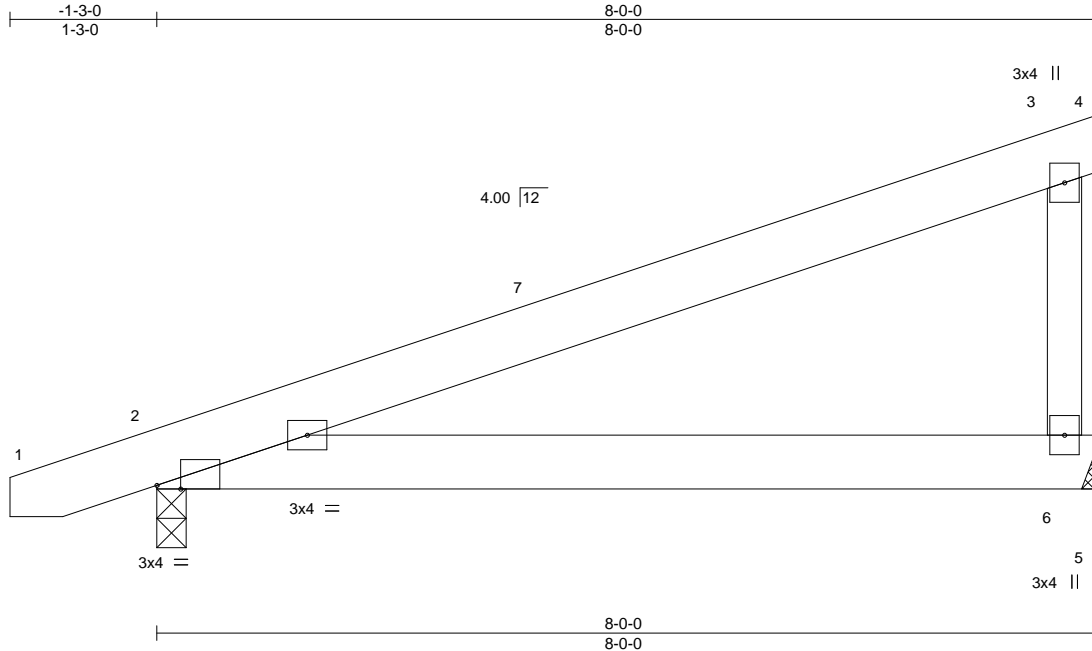
March 20,2020

Job J0120-0162	Truss C2	Truss Type MONOPITCH	Qty 38	Ply 1	Centrella Residence Job Reference (optional)	E14208633
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:18 2020 Page 1

ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-Uom60UnlvxiYziNfwBiHPEf85XexB1Xv1DiuAozZ4jh



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.05	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.09	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.10	2-6	>923	240	Weight: 45 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 6=Mechanical, 2=0-3-0
 Max Horz 2=102(LC 8)
 Max Uplift 6=130(LC 8), 2=147(LC 8)
 Max Grav 6=310(LC 1), 2=378(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 8-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=130, 2=147.

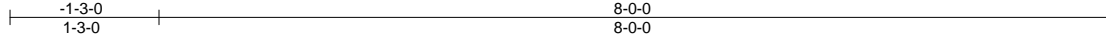


Job J0120-0162	Truss C3	Truss Type MONOPITCH	Qty 30	Ply 1	Centrella Residence Job Reference (optional)	E14208634
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:19 2020 Page 1

ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-y_KUEpoNgFqObryrUuDWxSCJmx_6wUn2GsRRIEzZ4jg



Scale = 1:19.3

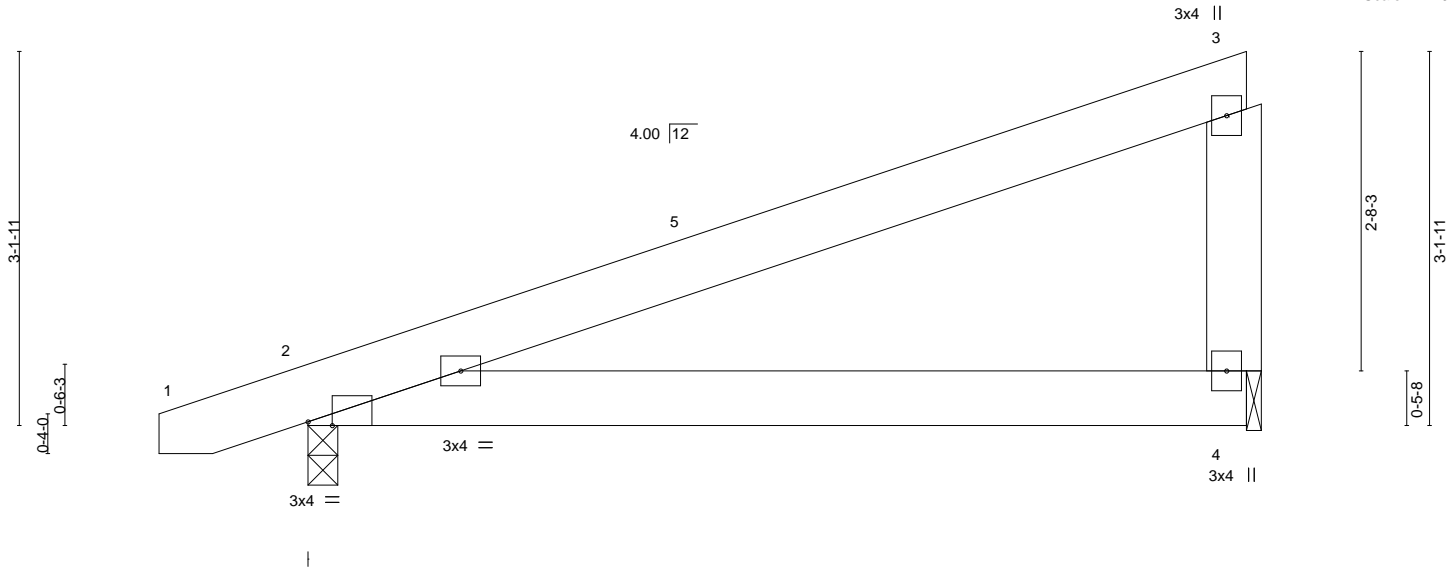


Plate Offsets (X,Y)--		[2:0-2-7,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.05	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.09	2-4	>993		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.10	2-4	>908		
								Weight: 46 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SP No.1		

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=100(LC 8)
 Max Uplift 2=148(LC 8), 4=129(LC 8)
 Max Grav 2=380(LC 1), 4=301(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 7-9-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148, 4=129.



March 20,2020

Job J0120-0162	Truss C4	Truss Type MONOPITCH	Qty 2	Ply 1	Centrella Residence	E14208635
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:20 2020 Page 1	
					ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-QAusR9p?QZyFD?X22bklUfkUblJOfx1BVWB?EgzZ4jf	

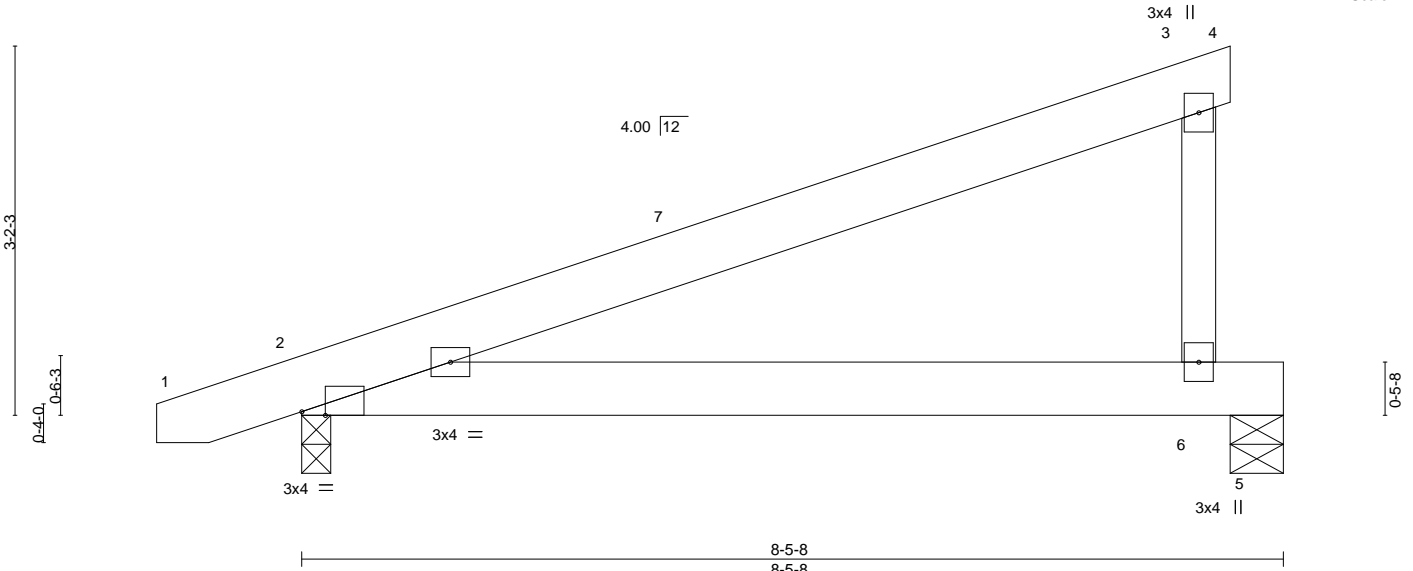
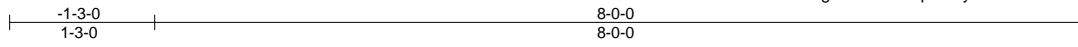


Plate Offsets (X,Y)--	[2:0-2-7,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.06	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.13	2-6	>777	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.15	2-6	>659	240	Weight: 46 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 5=0-5-8
 Max Horz 2=102(LC 8)
 Max Uplift 2=155(LC 8), 5=130(LC 8)
 Max Grav 2=397(LC 1), 5=295(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 8-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=155, 5=130.

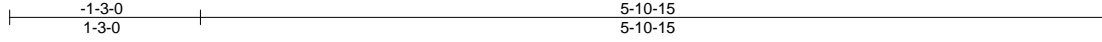


March 20,2020

Job J0120-0162	Truss Y1	Truss Type Jack-Open	Qty 4	Ply 1	Centrella Residence Job Reference (optional)	E14208636
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:20 2020 Page 1
ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-QAusR9p?QZyFD?X22bkiUfkXELL4fx1BVWB?EgzZ4jf



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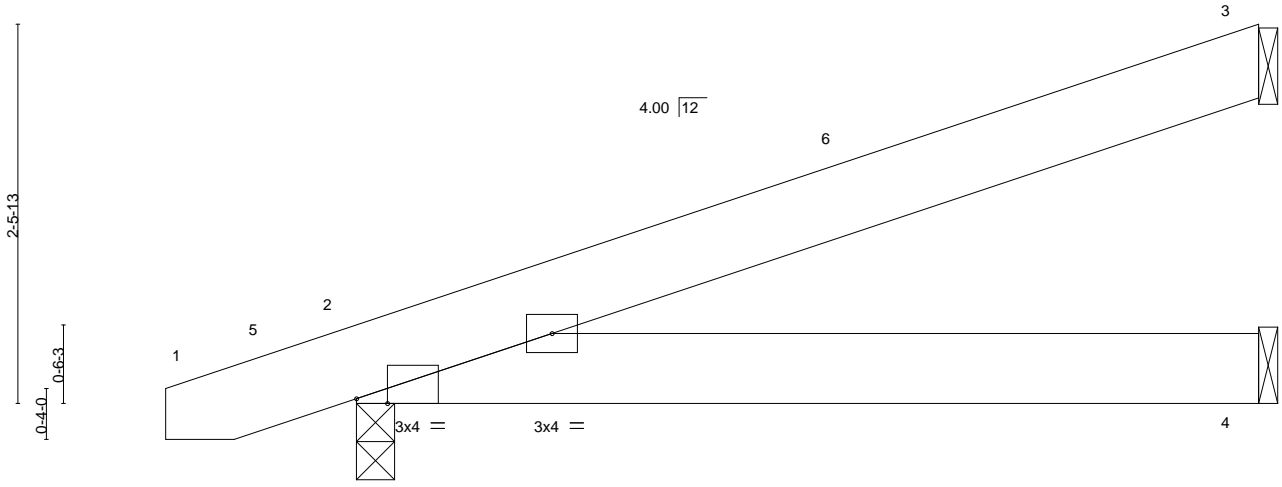


Plate Offsets (X,Y)--	[2:0-2-7,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.03	2-4	>999	240	Weight: 32 lb	FT = 20%

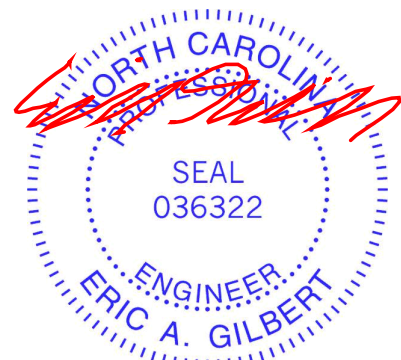
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=79(LC 8)
Max Uplift 3=-68(LC 12), 2=-123(LC 8), 4=-29(LC 8)
Max Grav 3=165(LC 1), 2=305(LC 1), 4=114(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 5-10-3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=123.

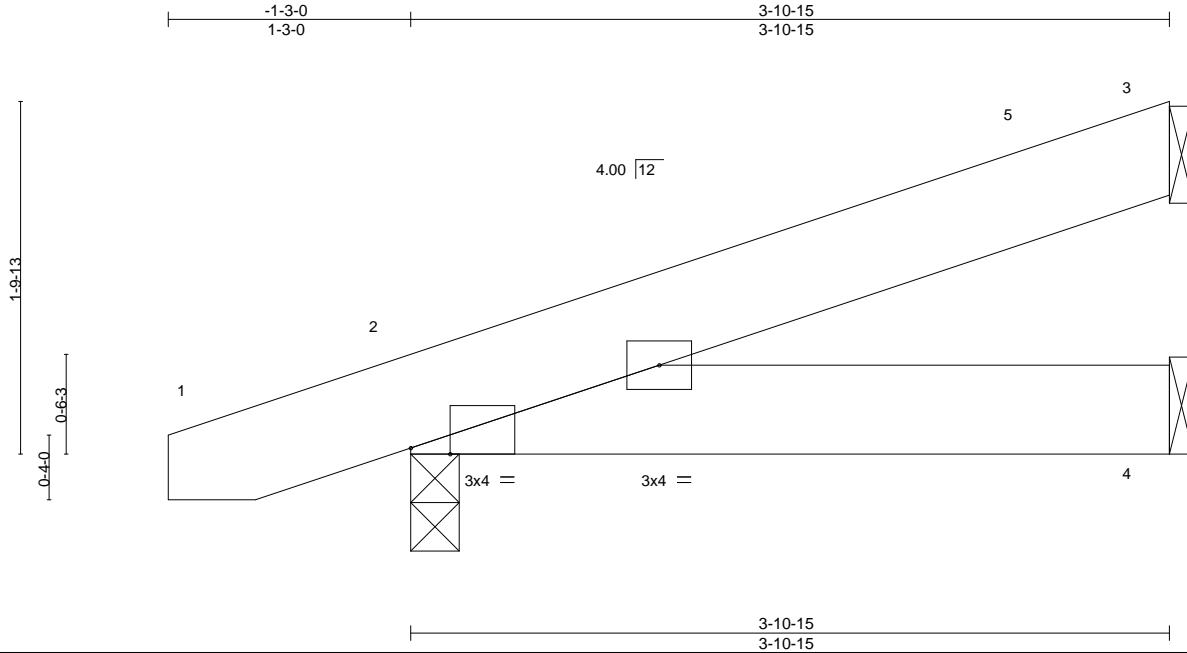


March 20,2020

Job J0120-0162	Truss Y2	Truss Type Jack-Open	Qty 4	Ply 1	Centrella Residence	E14208637
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:21 2020 Page 1
ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-uMSEfVpdBs46q96EbJF_1tHjtKiXONGLkAwYn7zZ4je



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT) -0.01	2-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.01	2-4	>999	240	Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

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

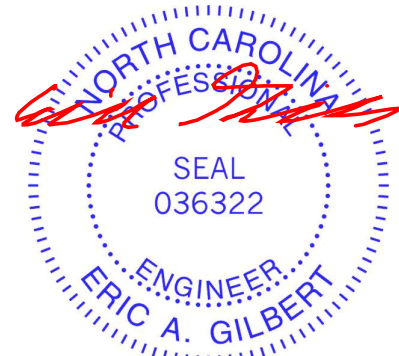
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=58(LC 8)
Max Uplift 3=-43(LC 12), 2=-98(LC 8), 4=-19(LC 8)
Max Grav 3=101(LC 1), 2=229(LC 1), 4=74(LC 3)

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

NOTES-

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



March 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



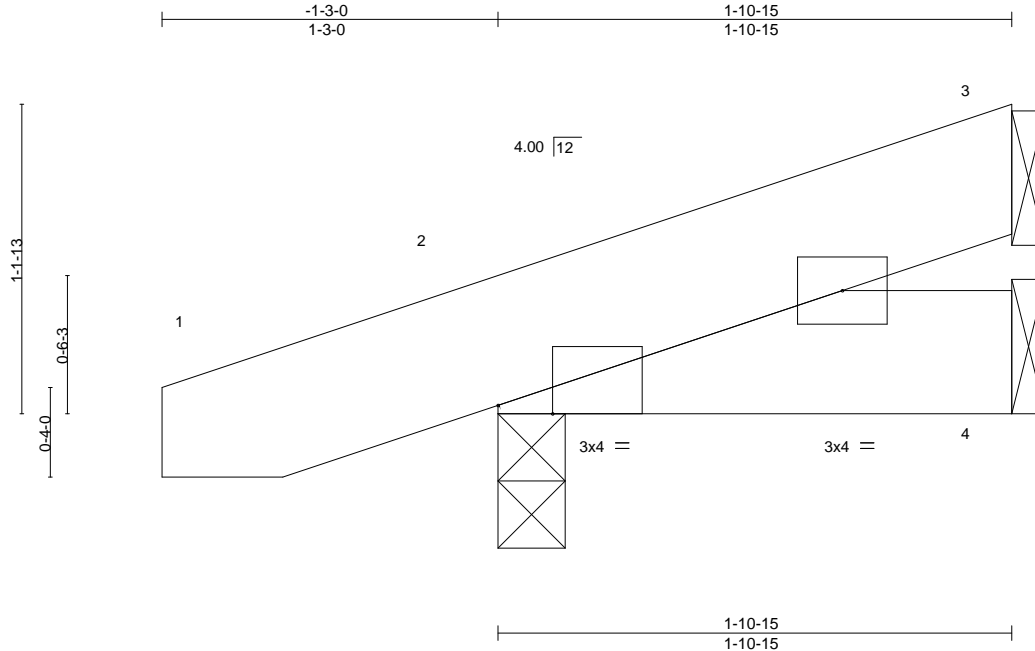
818 Soundside Road
Edenton, NC 27932

Job J0120-0162	Truss Y3	Truss Type Jack-Open	Qty 4	Ply 1	Centrella Residence Job Reference (optional)	E14208638
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:22 2020 Page 1

ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-MZ0csrqFyACzSjHq90mDZ4qvF82N7qWUyqg6JzZ4jd



Scale = 1:8.6

Plate Offsets (X,Y)-- [2:0-2-7,Edge]		CSI		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	Vert(LL)	-0.00	2	>999		
TCDL 10.0	Lumber DOL	1.15	WB	Vert(CT)	-0.00	2	>999		
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-P	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014			Wind(LL)	0.00	2	>999	Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=36(LC 8)
Max Uplift 3=-19(LC 12), 2=-75(LC 8), 4=-10(LC 8)
Max Grav 3=39(LC 1), 2=156(LC 1), 4=37(LC 3)

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

NOTES-

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



March 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job J0120-0162	Truss Z1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Centrella Residence	E14208639
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 20 09:24:23 2020 Page 1	
					ID:UdiTzYURNr5hDeSCXUvhtYzCgC9-rIZ_4BrjULq4TGcjkIS6IM1HYLAsBoeBUPfr?zZ4jc	
Job Reference (optional)						

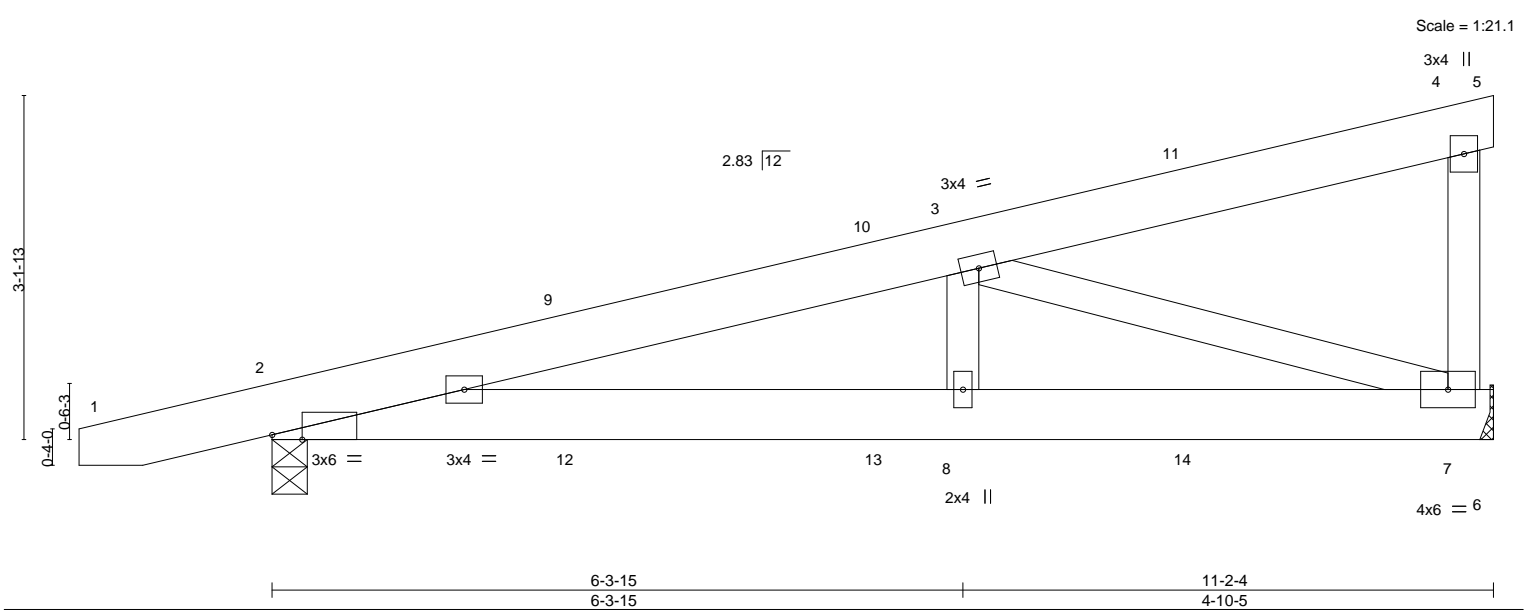


Plate Offsets (X,Y)--	[2:0-3-5,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.04	2-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.05	2-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 69 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-14
Max Horz 2=101(LC 19)
Max Uplift 7=-275(LC 4), 2=-262(LC 4)
Max Grav 7=627(LC 1), 2=611(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1180/447
BOT CHORD 2-8=-494/1104, 7-8=-494/1104
WEBS 3-8=-77/339, 3-7=-1127/504

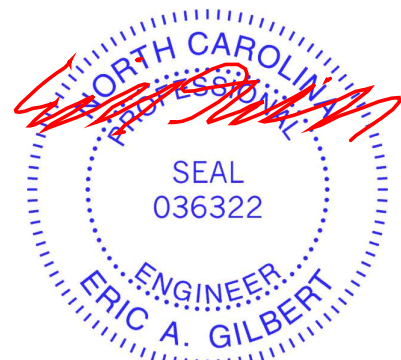
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=275, 2=262.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 17 lb up at 2-9-8, 17 lb down and 17 lb up at 2-9-8, 40 lb down and 53 lb up at 5-7-7, 40 lb down and 53 lb up at 5-7-7, and 80 lb down and 87 lb up at 8-5-6, and 80 lb down and 87 lb up at 8-5-6 on top chord, and 2 lb down and 21 lb up at 2-9-8, 2 lb down and 21 lb up at 2-9-8, 20 lb down and 42 lb up at 5-7-7, 20 lb down and 42 lb up at 5-7-7, and 58 lb down and 58 lb up at 8-5-6, and 58 lb down and 58 lb up at 8-5-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

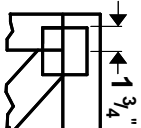
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20

Concentrated Loads (lb)
Vert: 10=-32(F=-16, B=-16) 11=-160(F=-80, B=-80) 13=-18(F=-9, B=-9) 14=-58(F=-29, B=-29)

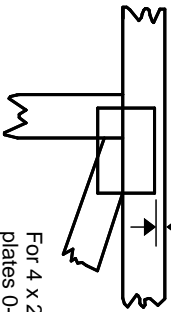


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/8" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

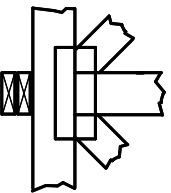
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



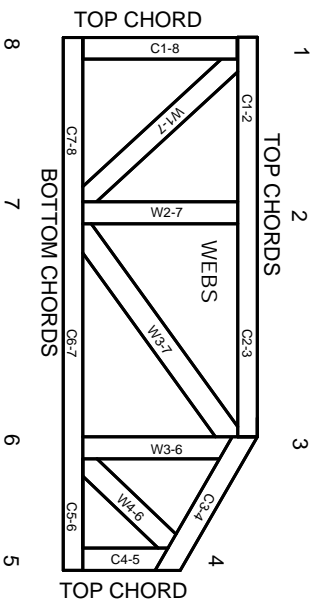
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. 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 environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.