ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J1220-5675
Ben Stout/Lot 34 Forest Ridge/Harnett

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J1220-5675
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

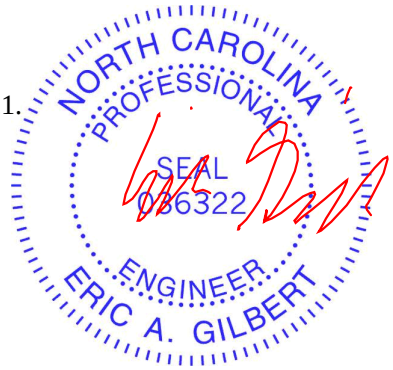
No.	Seal#	Truss Name	Date
1	E14273333	A01	1/7/2021
2	E14273334	A01GE	1/7/2021
3	E14273335	A02	1/7/2021
4	E14273336	A03	1/7/2021
5	E14273337	A03GE	1/7/2021
6	E14273338	B01	1/7/2021
7	E14273339	B01GE	1/7/2021
8	E14273340	B02	1/7/2021
9	E14273341	C01	1/7/2021
10	E14273342	C01GR	1/7/2021
11	E14273343	C01SG	1/7/2021
12	E14273344	D01GE	1/7/2021
13	E14273345	J02	1/7/2021
14	E14273346	M01	1/7/2021
15	E14273347	M01GE	1/7/2021
16	E14273348	M03	1/7/2021
17	E14273349	M04	1/7/2021
18	E14273350	PB01	1/7/2021
19	E14273351	PB02	1/7/2021

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

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



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

January 07, 2021

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	A01	PIGGYBACK BASE	4	1	E14273333 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:51 2020 Page 1
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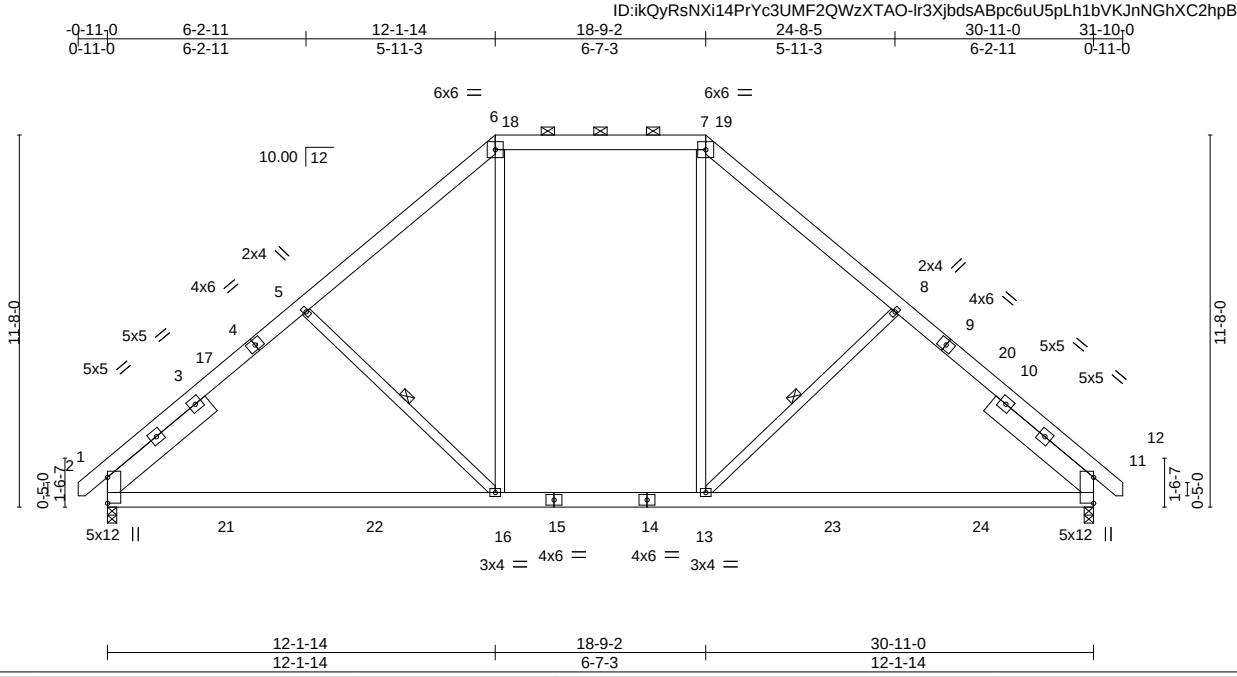

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.29	2-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.44	2-16	>850	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.19	2-16	>999	240	Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP No.1 - 4-3-7, Right 2x8 SP No.1 -x 4-3-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 8-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-267(LC 8)
Max Uplift 2=-52(LC 12), 11=-52(LC 13)
Max Grav 2=1486(LC 19), 11=1486(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-1649/413, 5-6=-1429/436, 6-7=-1033/408, 7-8=-1429/436, 8-11=-1649/413
BOT CHORD 2-16=-183/1268, 13-16=-14/1079, 11-13=-162/1122
WEBS 5-16=-347/270, 6-16=-69/560, 7-13=-69/560, 8-13=-347/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 31-8-11 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 52 lb uplift at joint 2 and 52 lb uplift at joint 11.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

April 8,2020

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	A01GE	PIGGYBACK BASE SUPPO	1	1	E14273334
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:53 2020 Page 1
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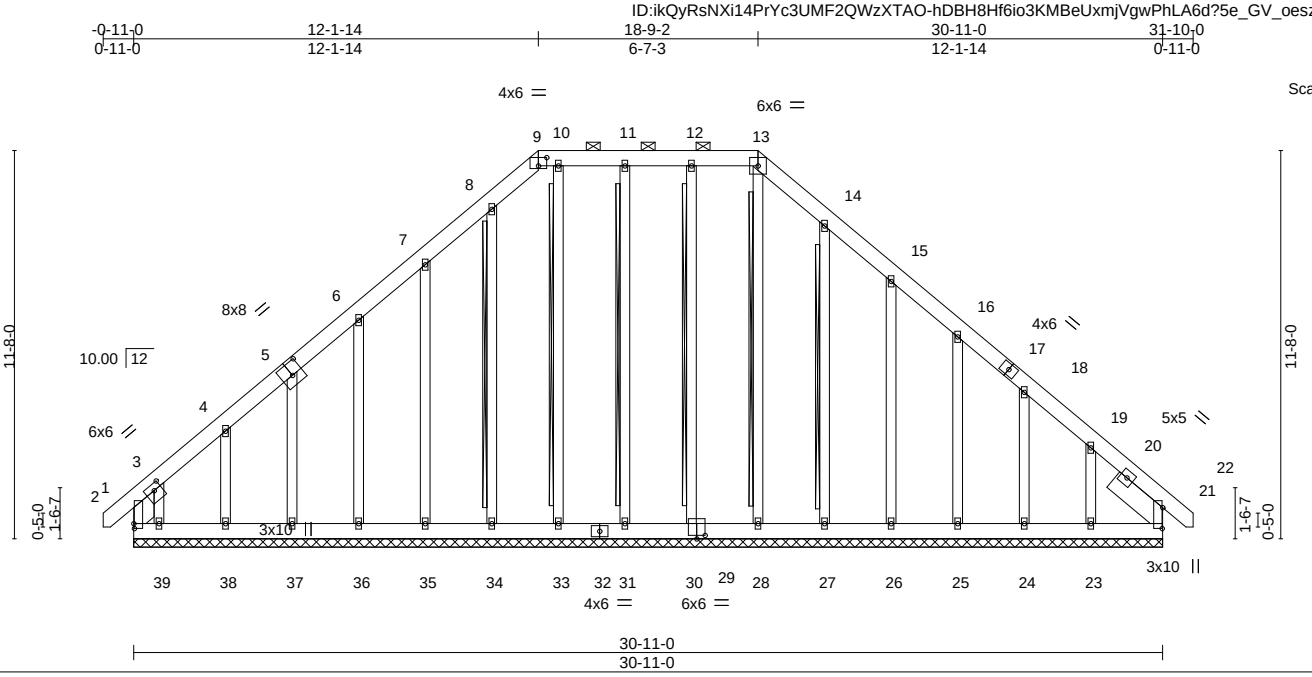

Plate Offsets (X,Y)-- [2:0-1-12,0-0-3], [3:0-2-12,0-2-4], [5:0-4-0,0-4-8], [9:0-3-0,0-3-0], [21:0-7-8,0-0-3], [29:0-0-0,0-2-12], [29:0-3-0,0-1-4], [30:0-1-12,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	21	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	21	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 333 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x8 SP No.1 -x 1-1-4, Right 2x8 SP No.1 -x 1-11-13

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 13-28, 12-30, 11-31, 10-33 , 8-34, 14-27 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 30-11-0.
(lb) - Max Horz 2=-334(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 21, 30, 31, 33, 34, 27, 24 except 35=-125(LC 12), 36=-116(LC 12), 37=-106(LC 12), 38=-123(LC 12), 39=-425(LC 12), 26=-122(LC 13), 25=-113(LC 13), 23=-263(LC 13), 2=-371(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 28, 30, 31, 33, 34, 35, 36, 37, 38, 27, 26, 25, 24, 23 except 21=256(LC 22), 39=342(LC 10), 2=544(LC 12)

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

TOP CHORD	2-3=-557/399, 3-4=-281/244, 7-8=-256/283, 8-9=-282/306, 9-10=-254/285, 10-11=-254/285, 11-12=-254/285, 12-13=-254/285, 13-14=-295/318, 19-21=-322/180
BOT CHORD	36-37=-167/251, 35-36=-167/251, 34-35=-167/251, 33-34=-167/251, 31-33=-167/251, 30-31=-167/251, 28-30=-167/251, 27-28=-167/251, 26-27=-167/251, 25-26=-167/251, 24-25=-167/251, 23-24=-167/251, 21-23=-167/251
WEBS	3-39=-243/339, 19-23=-253/262

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) 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) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 30, 31, 33, 34, 27, 24 except (jt=lb) 35=125, 36=116, 37=106, 38=123, 39=425, 26=122, 25=113, 23=263, 2=371.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	A01GE	PIGGYBACK BASE SUPPO	1	1	E14273334 Job Reference (optional)

NOTES-

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

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	A02	PIGGYBACK BASE	7	1	E14273335 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:55 2020 Page 1
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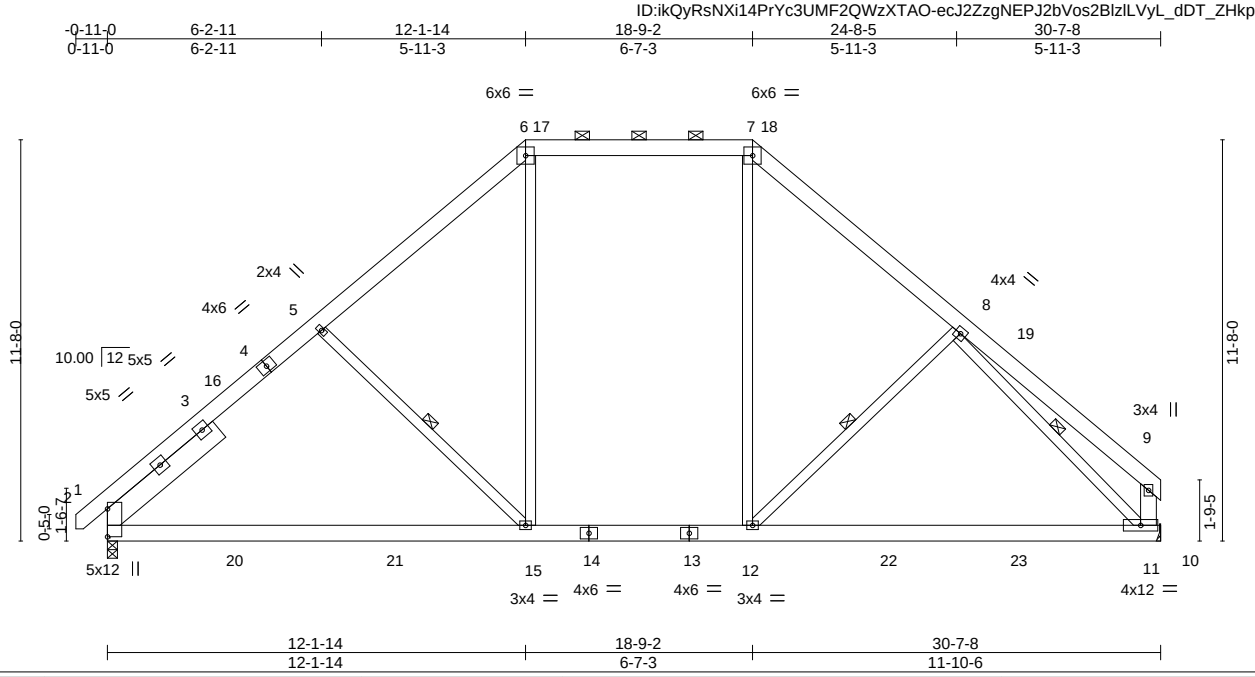

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.33	2-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.50	2-15	>726	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.19	2-15	>999	240	Weight: 248 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 9-11: 2x6 SP No.1
SLIDER	Left 2x8 SP No.1 -x 4-3-7

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-15, 8-12, 8-11

REACTIONS. (size) 2=0-3-8, 11=Mechanical
Max Horz 2=283(LC 9)
Max Uplift 2=-52(LC 12), 11=-33(LC 13)
Max Grav 2=1453(LC 19), 11=1390(LC 2)

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

TOP CHORD	2-5=-1593/405, 5-6=-1372/428, 6-7=-981/402, 7-8=-1362/431, 8-9=-640/106, 9-11=-510/107
BOT CHORD	2-15=-247/1236, 12-15=-53/1030, 11-12=-206/1023
WEBS	5-15=-361/271, 6-15=-64/553, 7-12=-68/493, 8-12=-289/251, 8-11=-1049/339

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 30-3-4 zone; end vertical left and 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	A03	PIGGYBACK BASE	8	1	E14273336 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:56 2020 Page 1
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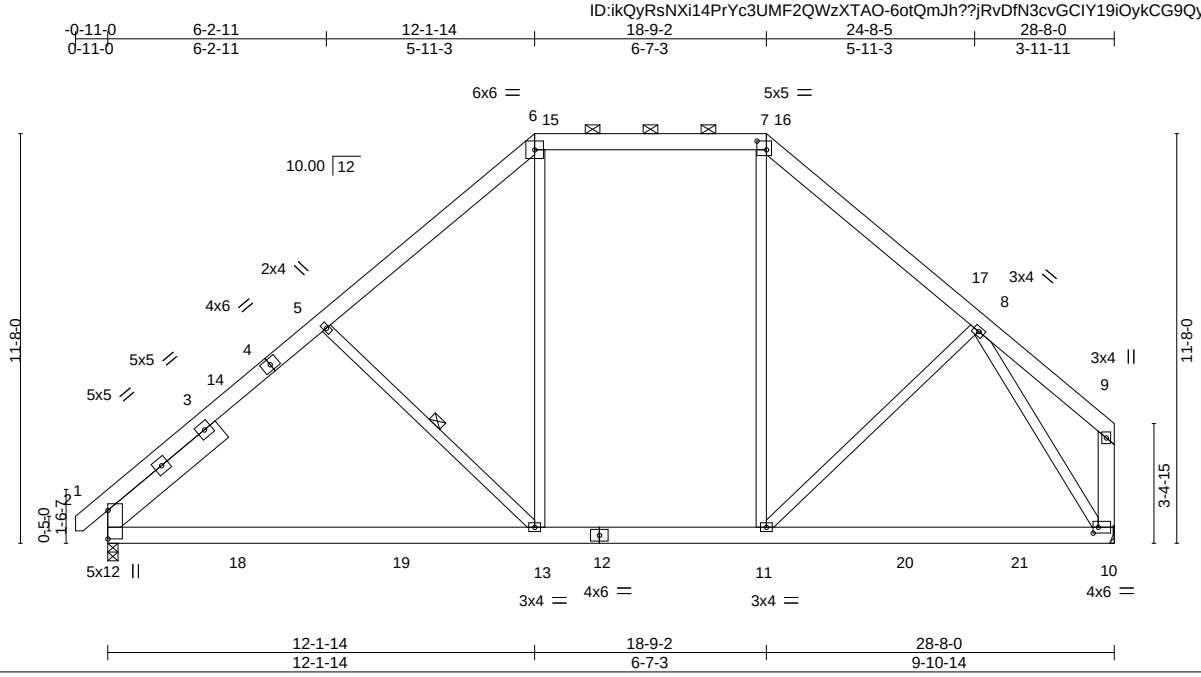

Plate Offsets (X,Y)-- [7:0-3-4,0-3-0], [10:0-1-12,0-2-0]

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)	-0.38	2-13	>893	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.61	2-13	>558	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.22	2-13	>999	240	Weight: 240 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 9-10: 2x6 SP No.1
SLIDER	Left 2x8 SP No.1 -x 4-3-7

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-13

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=303(LC 9)
Max Uplift 2=-51(LC 12), 10=-28(LC 13)
Max Grav 2=1369(LC 19), 10=1318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-1456/382, 5-6=-1232/404, 6-7=-860/381, 7-8=-1188/387
BOT CHORD 2-13=-314/1148, 11-13=-114/910, 10-11=-199/672
WEBS 5-13=-395/280, 6-13=-55/516, 7-11=-27/350, 8-11=-98/333, 8-10=-1209/358

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 28-5-4 zone; end vertical left and 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett E14273337
J1220-5675	A03GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:58 2020 Page 1
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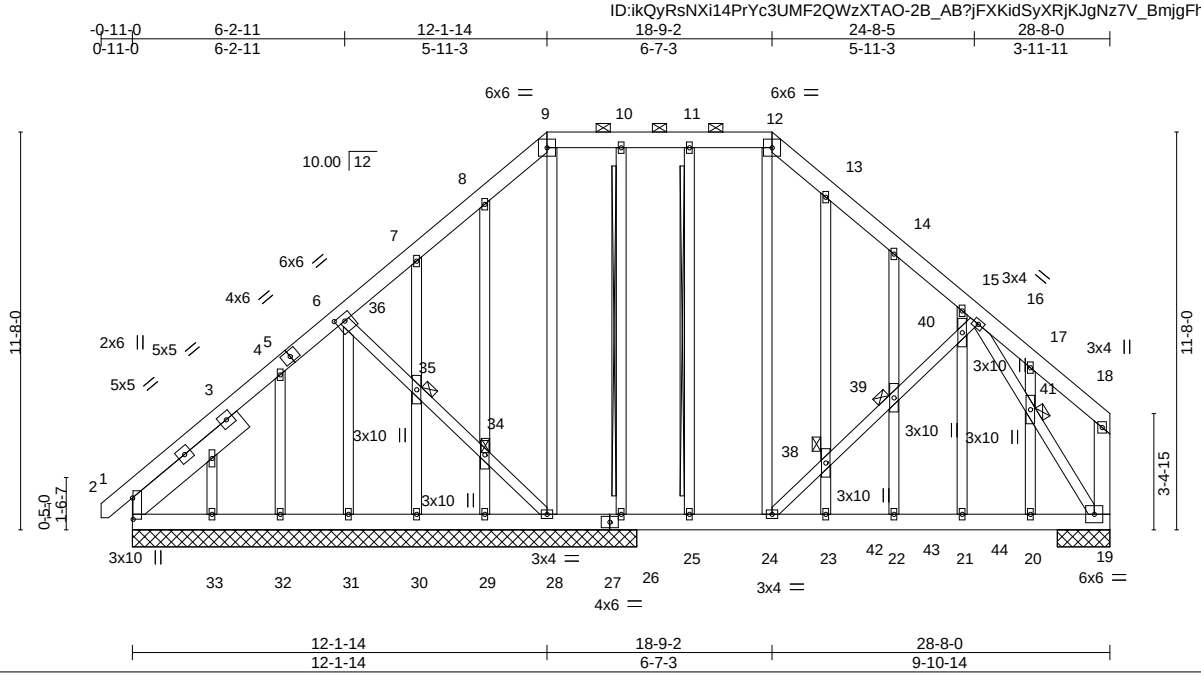

Plate Offsets (X,Y)-- [2:0-7-8,0-0-3], [6:0-3-0,0-2-4], [36:0-0-4,0-2-6]

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	0.19	Vert(LL)	0.07	22-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	22-23	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.01	19	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 354 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 18-19: 2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x8 SP No.1 -x 4-3-7

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-12.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 10-26, 11-25 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.
JOINTS	1 Brace at Jt(s): 34, 35, 38, 39, 41

REACTIONS. All bearings 14-9-8 except (jt=length) 19=1-6-8.
(lb) - Max Horz 2=377(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 29, 31, 33 except 2=-311(LC 4), 28=-617(LC 20), 19=-481(LC 9), 26=-163(LC 4), 30=-121(LC 8), 32=-247(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 29, 30, 33 except 2=793(LC 34), 28=414(LC 9), 19=1148(LC 1), 26=478(LC 20), 31=267(LC 1), 32=266(LC 15)

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

TOP CHORD	2-4=-959/474, 4-6=-783/425, 6-7=-862/495, 7-8=-887/581, 8-9=-807/596, 9-10=-618/496, 10-11=-617/496, 11-12=-618/496, 12-13=-733/544, 13-14=-820/523, 14-15=-860/444, 15-16=-1056/536
BOT CHORD	2-33=-171/517, 32-33=-171/517, 31-32=-171/517, 30-31=-171/517, 29-30=-171/517, 28-29=-171/517, 26-28=-165/602, 25-26=-165/602, 24-25=-165/602, 23-24=-296/638, 22-23=-296/638, 21-22=-296/638, 20-21=-296/638, 19-20=-296/638
WEBS	9-28=-307/405, 12-24=-213/262, 16-41=-1242/532, 19-41=-1095/468, 4-32=-237/285, 15-40=-166/285, 21-40=-151/267

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) 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) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 31, 33 except (jt=lb) 2=311, 28=617, 19=481, 26=163, 30=121, 32=247.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Continued on page 2

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 55 lb up at 16-6-12, 45 lb down and 55 lb up at 18-6-12, 45 lb down and 55 lb up at 20-2-12, 45 lb down and 55 lb up at 21-8-4, and 45 lb down and 55 lb up at 23-4-4, and 45 lb down and 55 lb up at 25-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
13) 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: 1-9=-60, 9-12=-60, 12-18=-60, 2-19=-20
   Concentrated Loads (lb)
   Vert: 24=-45(B) 25=-45(B) 23=-45(B) 42=-45(B) 43=-45(B) 44=-45(B)

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	B01	ATTIC	1	1	E14273338
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:00 2020 Page 1
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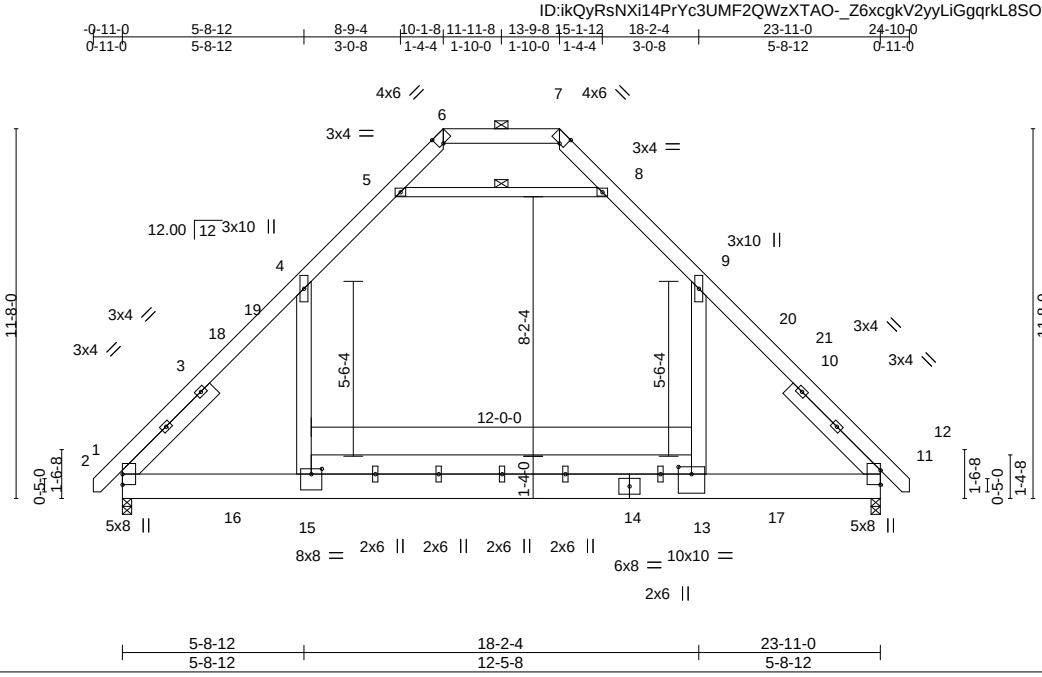


Plate Offsets (X,Y)-- [6:0-2-2,Edge], [7:0-2-2,Edge], [13:0-5-0,0-2-12], [15:0-4-0,0-2-0]

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	0.67	Vert(LL)	-0.27	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	13-15	>647	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08	13-15	>999	240	Weight: 271 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP 2400F 2.0E *Except* 6-7: 2x6 SP No.1
BOT CHORD	2x10 SP No.1 *Except* 13-15: 2x8 SP No.1
WEBS	2x6 SP No.1 *Except* 5-8: 2x4 SP No.1
SLIDER	Left 2x6 SP No.1 -x 3-11-11, Right 2x6 SP No.1 -x 3-11-11

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS	1 Row at midpt 5-8

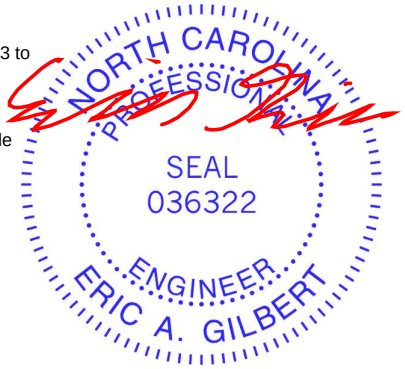
REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-265(LC 8)
Max Grav 2=1677(LC 20), 11=1677(LC 21)

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

TOP CHORD	2-4=-2171/0, 4-5=-1136/177, 5-6=0/449, 7-8=0/449, 8-9=-1136/177, 9-11=-2171/0, 6-7=0/695
BOT CHORD	2-15=0/1246, 13-15=0/1246, 11-13=0/1246
WEBS	5-8=-1793/177, 4-15=0/1130, 9-13=0/1130

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) 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) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 10-1-8, Exterior(2) 10-1-8 to 20-0-3, Interior(1) 20-0-3 to 24-8-10 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Attic room checked for L/360 deflection.



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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett E14273339
J1220-5675	B01GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:01 2020 Page 1
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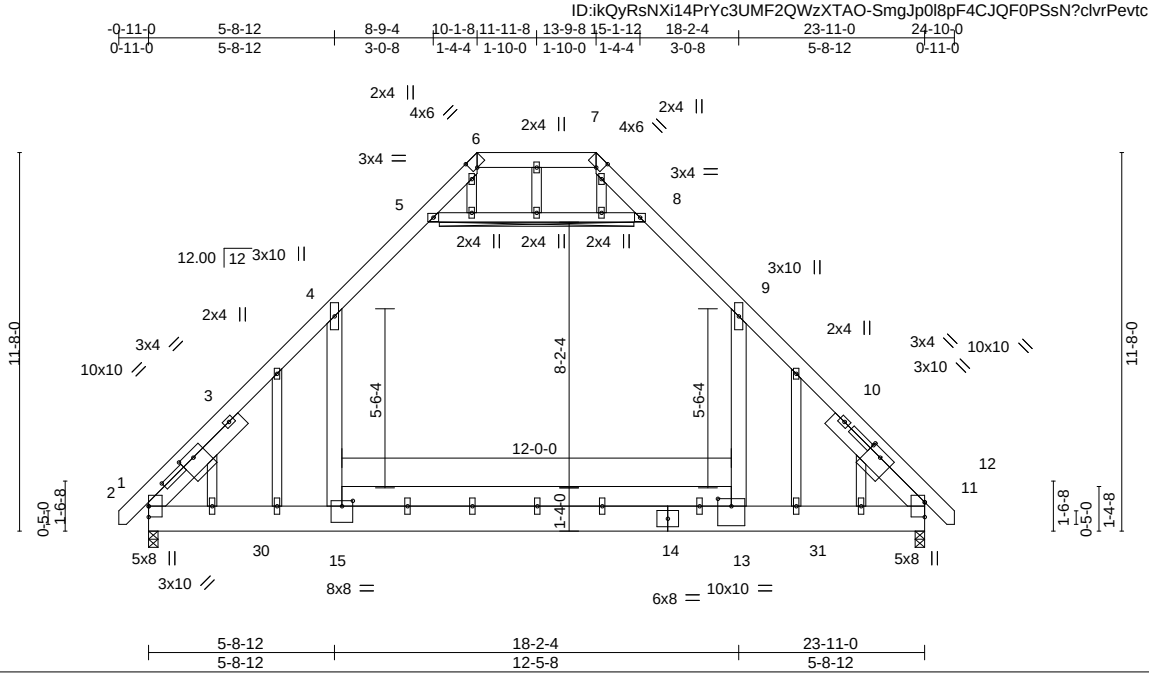

Plate Offsets (X,Y)-- [2:0-9-6,0-2-9], [6:0-2-2,Edge], [7:0-2-2,Edge], [11:2-4-5,0-1-8], [13:0-5-0,0-2-12], [15:0-4-0,0-2-0], [23:0-5-0,0-2-8], [29:0-5-0,0-2-8]

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	0.67	Vert(LL)	-0.27	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	13-15	>647	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	13-15	>999	240	Weight: 294 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP 2400F 2.0E *Except* 6-7: 2x6 SP No.1
BOT CHORD	2x10 SP No.1 *Except* 13-15: 2x8 SP No.1
WEBS	2x6 SP No.1 *Except* 5-8: 2x4 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 3-11-11, Right 2x6 SP No.1 -x 3-11-11

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-8 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. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-331(LC 8)
Max Grav 2=1672(LC 2), 11=1671(LC 2)

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

TOP CHORD	2-4=-2165/0, 4-5=-1134/203, 5-6=0/449, 7-8=0/449, 8-9=-1134/203, 9-11=-2165/0, 6-7=0/695
BOT CHORD	2-15=0/1253, 13-15=0/1253, 11-13=0/1253
WEBS	5-8=-1790/248, 4-15=0/1130, 9-13=0/1130

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) 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) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x6 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
13) Attic room checked for L/360 deflection.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett E14273340
J1220-5675	B02	ATTIC	5	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:02 2020 Page 1
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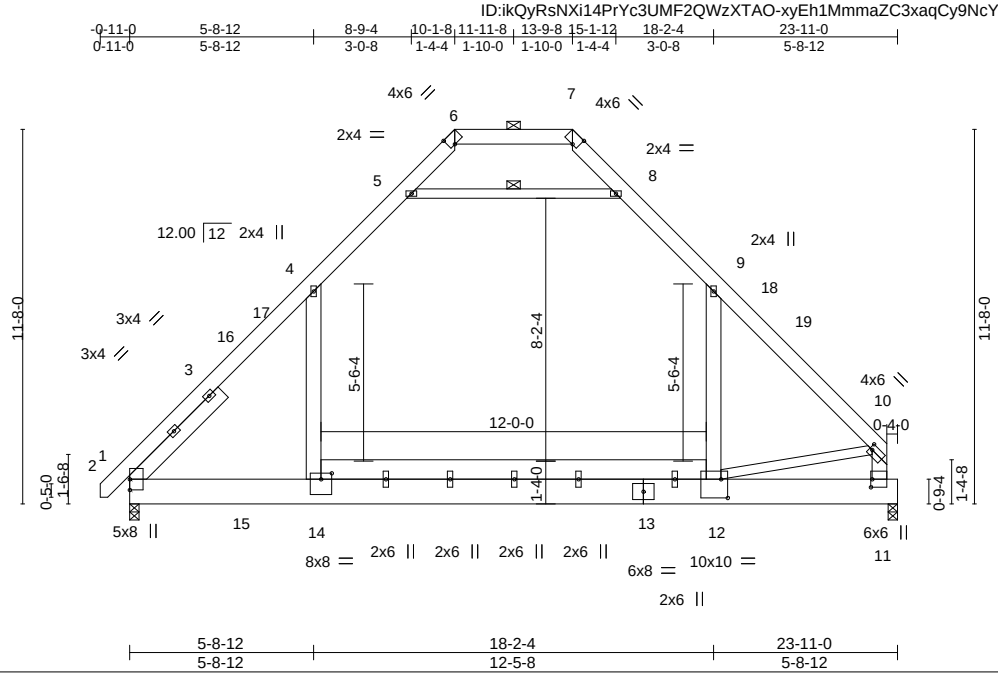


Plate Offsets (X,Y)-- [6:0-2-2,Edge], [7:0-2-2,Edge], [10:0-1-0,0-2-0], [11:0-3-0,0-0-8], [12:0-2-8,0-7-0], [14:0-4-0,0-2-4]

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	0.64	Vert(LL)	-0.26	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	12-14	>642	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	12-14	>999	240	Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP 2400F 2.0E *Except* 6-7: 2x6 SP No.1
BOT CHORD	2x10 SP No.1 *Except* 12-14: 2x8 SP No.1
WEBS	2x6 SP No.1 *Except* 5-8: 2x4 SP No.1, 10-12: 2x4 SP No.2
SLIDER	Left 2x6 SP No.1 -x 3-11-11

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 9-5-9 oc bracing.
WEBS	1 Row at midpt 5-8

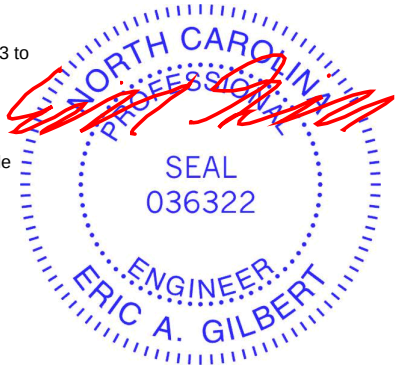
REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=283(LC 9)
Max Grav 2=1621(LC 20), 11=1542(LC 2)

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

TOP CHORD	2-4=-2035/0, 4-5=-1065/176, 5-6=0/428, 7-8=-11/400, 8-9=-1091/177, 9-10=-1849/0, 6-7=0/644, 10-11=-1722/0
BOT CHORD	2-14=0/1163, 12-14=0/1163, 11-12=-92/265
WEBS	5-8=-1665/174, 4-14=0/1039, 9-12=0/832, 10-12=0/1010

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) 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) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 10-1-8, Exterior(2) 10-1-8 to 20-0-3, Interior(1) 20-0-3 to 23-4-4 zone; end vertical left and 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-14, 9-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Attic room checked for L/360 deflection.



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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	C01	COMMON	1	1	E14273341
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:03 2020 Page 1
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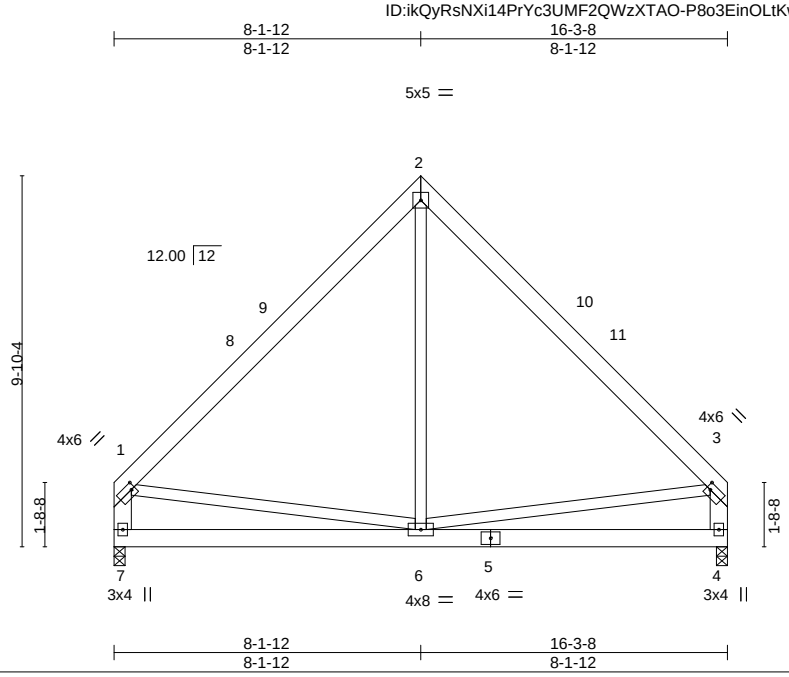


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [3:0-1-4,0-2-0]

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	0.29	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.00	6	>999	240	Weight: 135 lb	FT = 20%

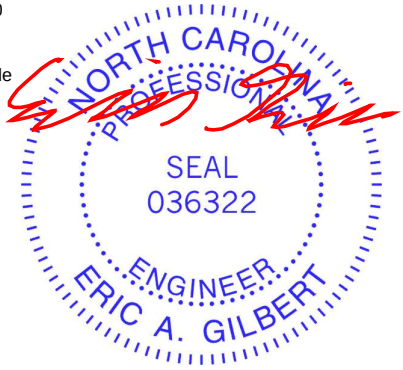
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-7,3-4: 2x6 SP No.1

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) 4=0-3-8, 7=0-3-8
Max Horz 7=238(LC 9)
Max Uplift 4=-27(LC 12), 7=-27(LC 13)
Max Grav 4=633(LC 1), 7=633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-597/185, 2-3=-597/185, 1-7=-562/196, 3-4=-562/196
BOT CHORD 6-7=-280/369, 4-6=-152/262
WEBS 2-6=0/315, 1-6=-106/254, 3-6=-112/260

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) 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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-1-12, Exterior(2) 8-1-12 to 12-6-9, Interior(1) 12-6-9 to 16-0-12 zone; end vertical 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.
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) 4, 7.



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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	C01GR	COMMON GIRDER	1	2	E14273342
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:05 2020 Page 1
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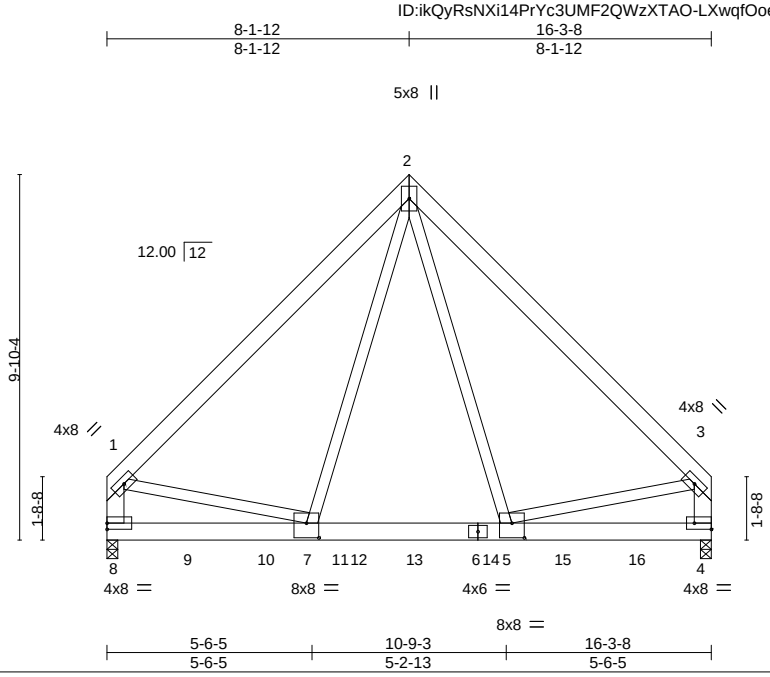


Plate Offsets (X,Y)-- [4:Edge,0-2-0], [5:0-4-0,0-4-12], [7:0-4-0,0-4-12]

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	0.29	Vert(LL)	-0.06	5-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.11	5-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	5-7	>999	240	Weight: 283 lb	FT = 20%

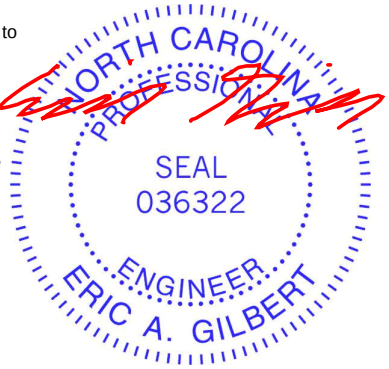
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-8,3-4: 2x6 SP No.1

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) 8=0-3-8, 4=0-3-8
Max Horz 8=-238(LC 25)
Max Uplift 8=-168(LC 9), 4=-170(LC 8)
Max Grav 8=5101(LC 2), 4=5160(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4740/232, 2-3=-4719/232, 1-8=-4153/167, 3-4=-4130/167
BOT CHORD 7-8=-310/750, 5-7=-105/2364, 4-5=-135/623
WEBS 2-5=-98/3162, 2-7=-99/3216, 1-7=-169/2767, 3-5=-172/2735

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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); end vertical left and right exposed; 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) 8=168, 4=170.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1298 lb down and 48 lb up at 2-2-12, 1298 lb down and 48 lb up at 4-2-12, 1287 lb down and 48 lb up at 6-2-12, 1253 lb down and 48 lb up at 8-2-12, 1291 lb down and 48 lb up at 10-2-12, and 1298 lb down and 48 lb up at 12-2-12, and 1298 lb down and 48 lb up at 14-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-8=-20

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-1117(B) 9=-1117(B) 10=-1117(B) 11=-1117(B) 13=-1117(B) 15=-1117(B) 16=-1117(B)

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	C01SG	GABLE	1	1	E14273343
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:06 2020 Page 1
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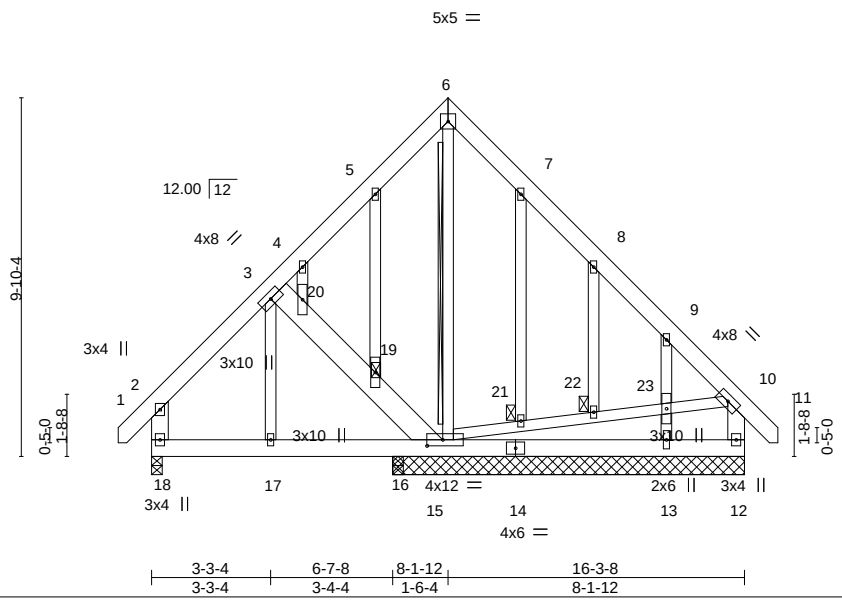


Plate Offsets (X,Y)-- [15:0-5-4,0-2-0]

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	0.12	Vert(LL)	-0.01	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.00	17	>999	240	Weight: 182 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 2-18,10-12: 2x6 SP No.1, 3-15: 2x8 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 6-15 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.
JOINTS	1 Brace at Jt(s): 19, 21, 22

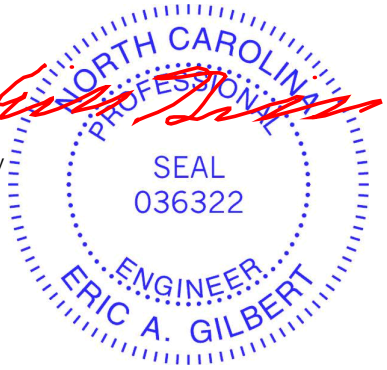
REACTIONS. All bearings 9-8-0 except (jt=length) 18=0-3-8, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 18=-329(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 16 except 12=-165(LC 11), 15=-109(LC 12), 13=-372(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 16, 16 except 15=584(LC 1), 18=314(LC 1), 13=522(LC 20)

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

TOP CHORD	9-10=-279/242, 2-18=-259/155
BOT CHORD	17-18=-225/293, 16-17=-226/293, 15-16=-226/293
WEBS	6-15=-303/0, 3-20=-269/225, 19-20=-287/224, 15-19=-350/288, 9-23=-435/362, 13-23=-523/442

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) 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) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;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.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16 except (jt=lb) 12=165, 15=109, 13=372.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	D01GE	COMMON SUPPORTED GAB	1	1	E14273344
					Job Reference (optional)

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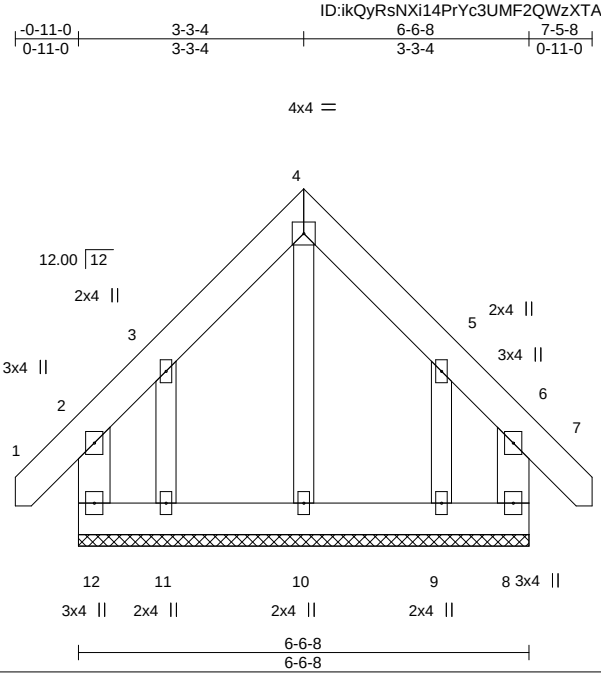

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 61 lb	FT = 20%

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

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

REACTIONS. All bearings 6-6-8.
(lb) - Max Horz 12=-185(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-141(LC 8), 8=-127(LC 9), 11=-160(LC 9), 9=-151(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 12, 127 lb uplift at joint 8, 160 lb uplift at joint 11 and 151 lb uplift at joint 9.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	J02	JACK-OPEN	8	1	E14273345 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:08 2020 Page 1
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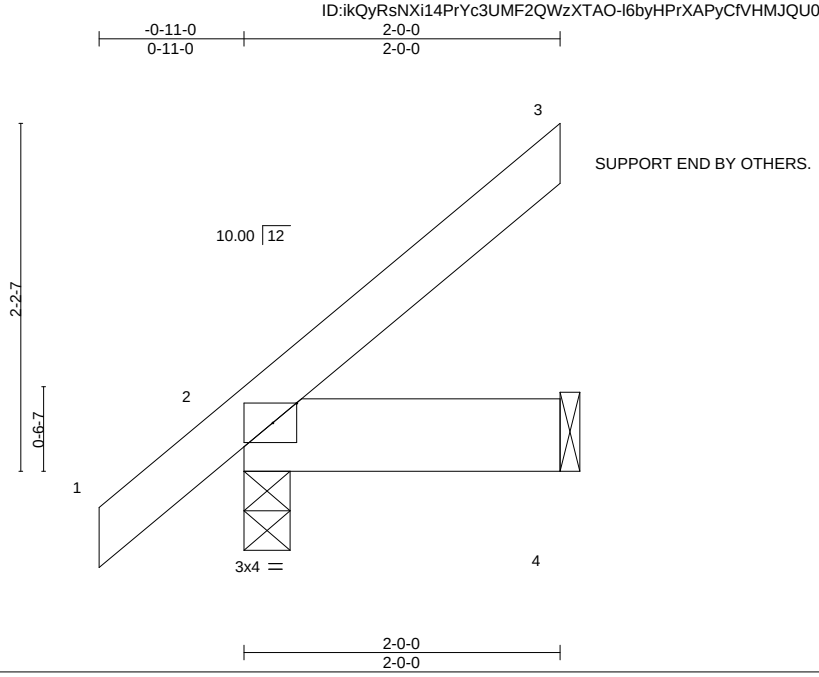

Plate Offsets (X,Y)-- [2:0-1-13,Edge]

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	0.30	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	2-4	>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							Weight: 11 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=93(LC 9)
Max Uplift 2=-18(LC 9), 4=-35(LC 9)
Max Grav 2=149(LC 1), 4=66(LC 19)

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;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 18 lb uplift at joint 2 and 35 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	M01	MONOPITCH	15	1	E14273346
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:09 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-EI9KVlr9xj43HfsZt7?FKI4I7dTtlCvKy?seCxzSs4i

-0-11-0 / 0-11-0 | 8-2-8 / 8-2-8 | 13-11-8 / 5-9-0

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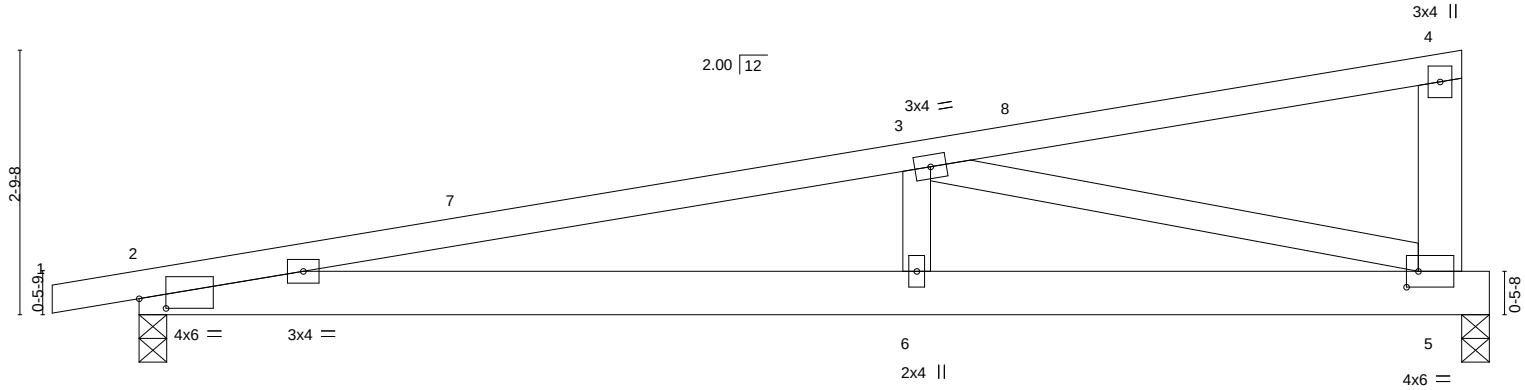

8-2-8 / 8-2-8 | 13-11-8 / 5-9-0 | 14-3-0 / 0-3-8

Plate Offsets (X,Y)-- [2:0-3-6,0-1-4], [5:0-1-8,0-2-0]

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	0.52	Vert(LL)	-0.07	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.15	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	2-6	>999	240	Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=81(LC 8)
Max Uplift 5=-215(LC 8), 2=-243(LC 8)
Max Grav 5=541(LC 1), 2=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1485/1380
BOT CHORD 2-6=-1426/1420, 5-6=-1426/1420
WEBS 3-6=-383/311, 3-5=-1420/1417

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 13-8-12 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
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 215 lb uplift at joint 5 and 243 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	M01GE	GABLE	2	1	E14273347
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:10 2020 Page 1
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0-11-0 13-11-8

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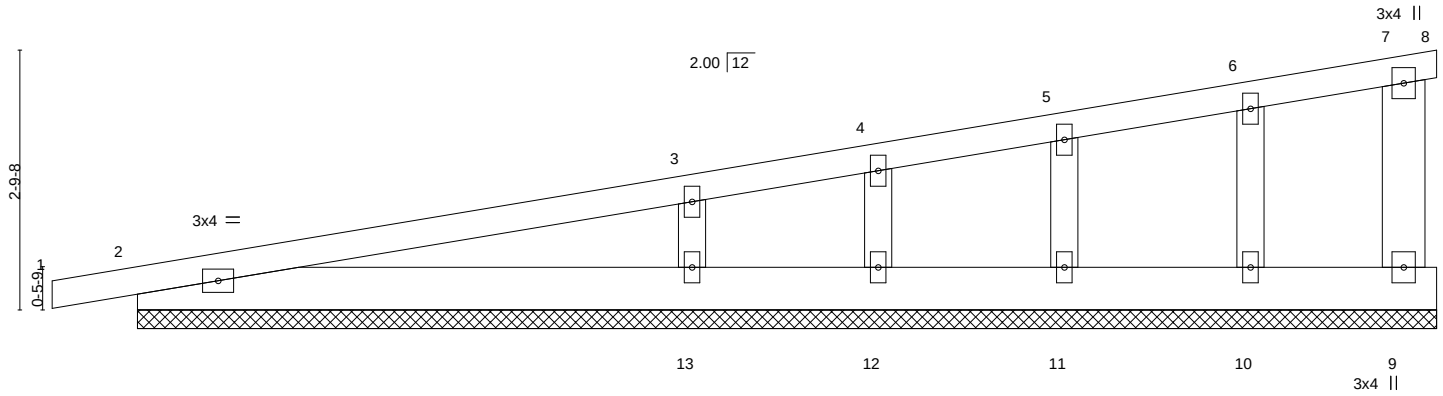

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 67 lb	FT = 20%

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

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

REACTIONS. All bearings 13-11-8.
(lb) - Max Horz 2=117(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 2, 10, 11, 12 except 13=-154(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 11, 12 except 2=253(LC 1), 13=513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-330/242

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) gable end zone and C-C Exterior(2) 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 2, 10, 11, 12 except (jt=lb) 13=154.

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Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	M03	Monopitch	5	1	E14273348 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:11 2020 Page 1
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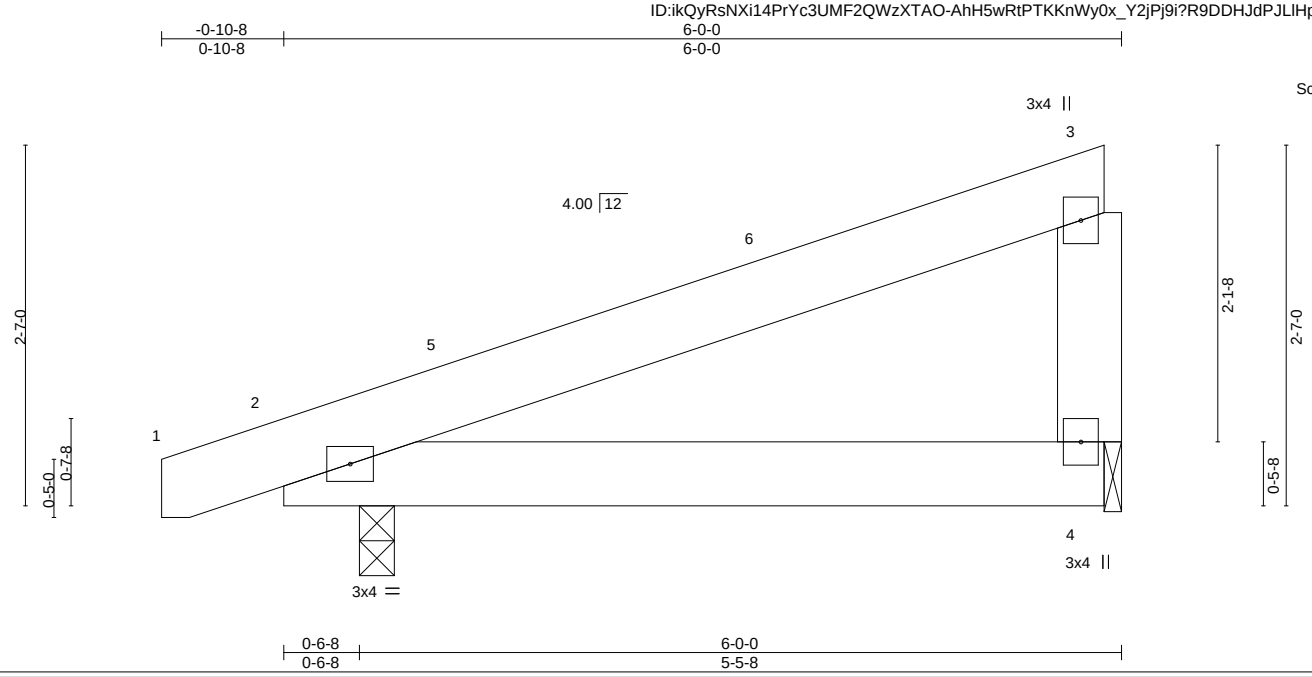


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.03	2-4	>999	240	Weight: 34 lb	FT = 20%

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

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) 2=0-3-0, 4=0-1-8
Max Horz 2=73(LC 8)
Max Uplift 2=-110(LC 8), 4=-97(LC 8)
Max Grav 2=284(LC 1), 4=222(LC 1)

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

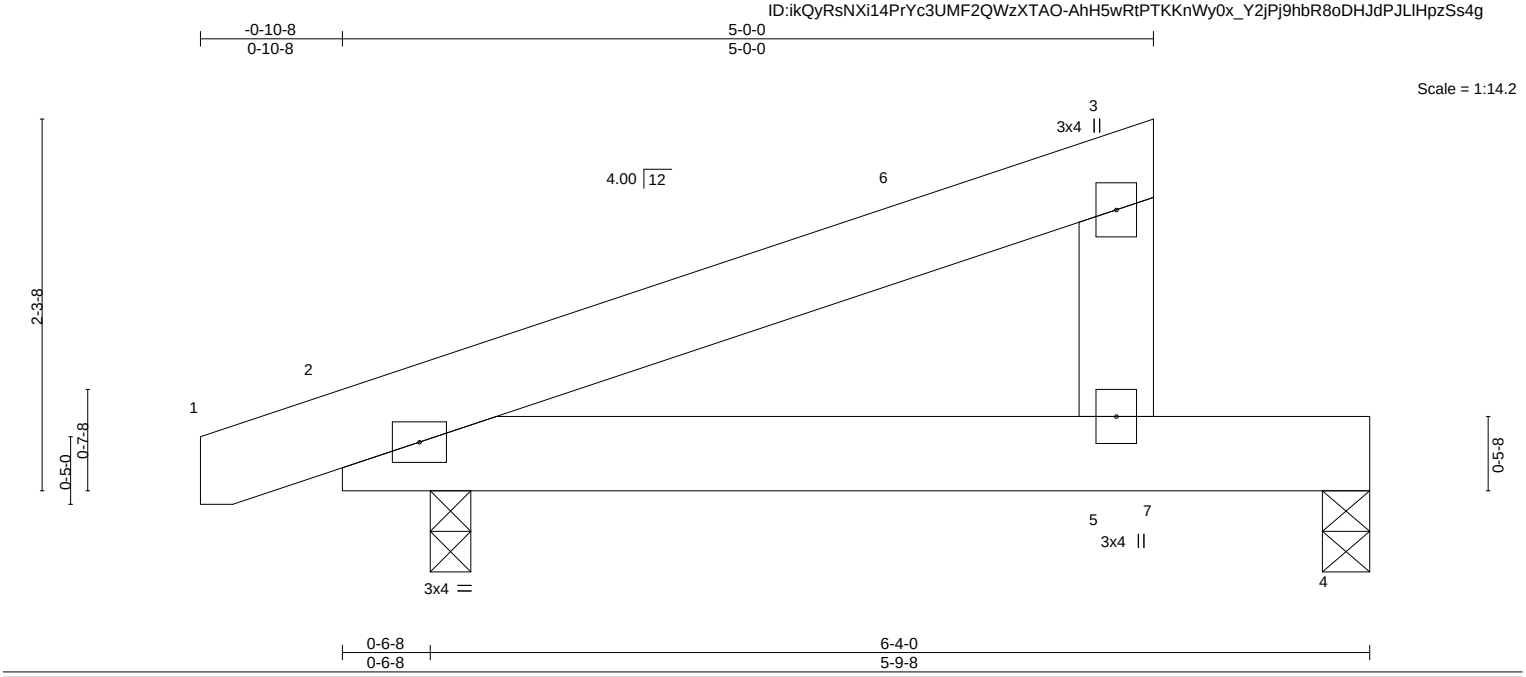
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 5-9-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 4 except (jt=lb) 2=110.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

April 8,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	M04	Roof Special	4	1	E14273349
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:11 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-AhH5wRtPTKKnWy0x_Y2jPj9hbR8oDHJdPJLlHpzSs4g



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	0.33	Vert(LL)	-0.04	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	2-5	>846	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.14	2-5	>525	240	Weight: 33 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-3-8, 2=0-3-0
Max Horz 2=62(LC 8)
Max Uplift 4=-191(LC 8), 2=-142(LC 8)
Max Grav 4=466(LC 1), 2=357(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) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 4-9-4 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=191, 2=142.
5) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 7=-369

April 8,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	PB01	PIGGYBACK	21	1	E14273350 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:13 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-63OrL7uf?xaVlGAK5z4BU8E5cEw7hBawtcqsLizSs4e

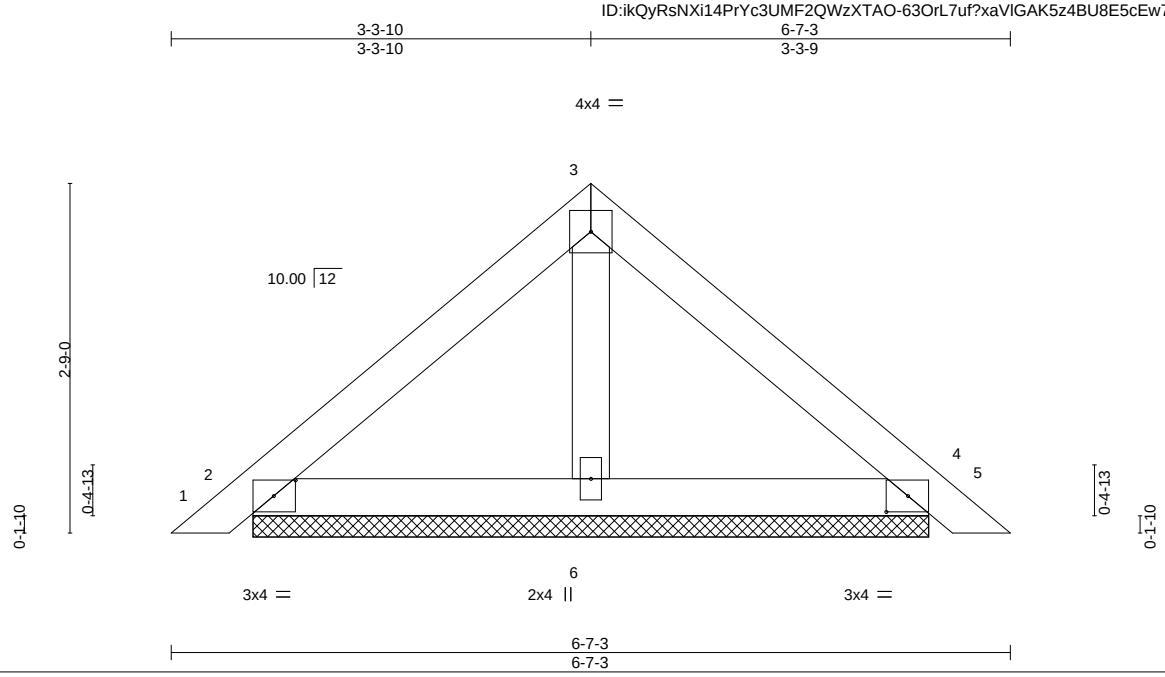


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

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	0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 2=5-3-12, 4=5-3-12, 6=5-3-12
Max Horz 2=-77(LC 10)
Max Uplift 2=-51(LC 12), 4=-61(LC 13)
Max Grav 2=150(LC 1), 4=150(LC 1), 6=175(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;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.

April 8,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 34 Forest Ridge/Harnett
J1220-5675	PB02	PIGGYBACK	7	1	E14273351 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:13 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-63OrL7uf?xaVlGAK5z4BU8E6qEw6hBpwtcqsLizSs4e

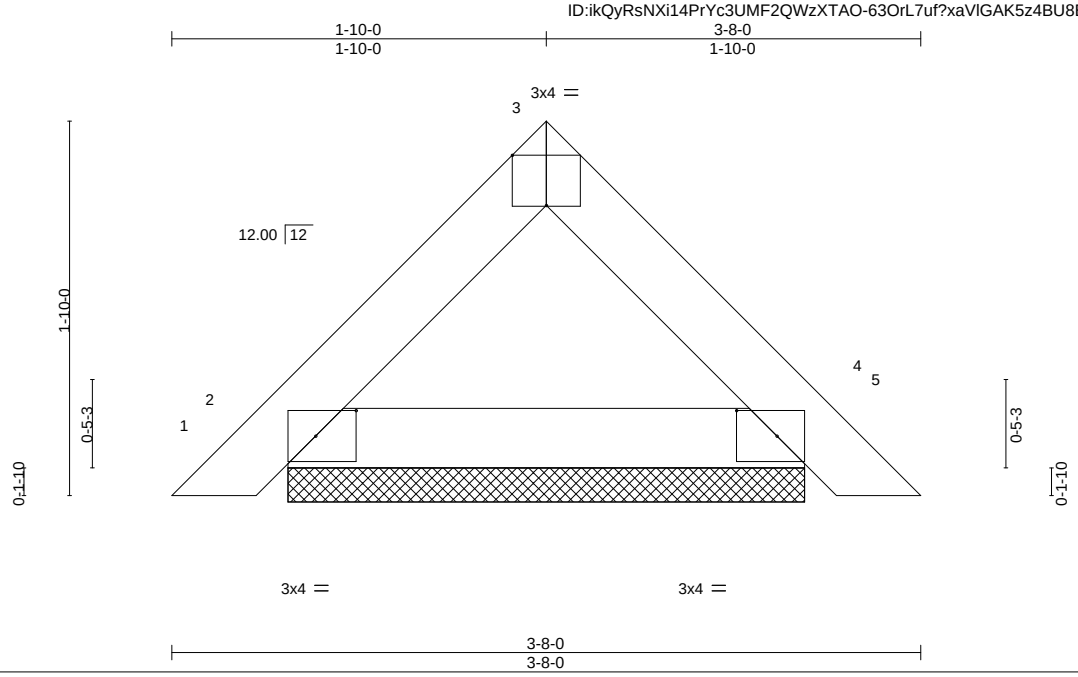


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [3:0-2-0,Edge], [4:0-2-6,0-1-8]

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	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-6-6, 4=2-6-6
Max Horz 2=-49(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 13)
Max Grav 2=123(LC 1), 4=123(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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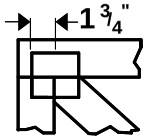
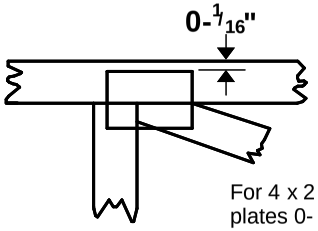
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

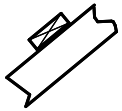
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

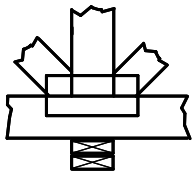
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

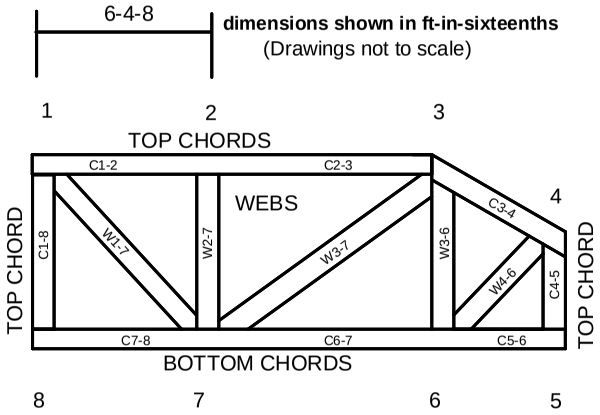


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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.

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

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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.