ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0320-1191
Lot 13 Blackberry Manor

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: E14188561 thru E14188583

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

North Carolina COA: C-0844

March 16,2020

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	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188561
J0320-1191	A1	ROOF SPECIAL	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:55 2020 Page 1
ID:Mx8V6g?IlBPF9OPoaUbLprzhKw_-zWLp7?3q6XM?9BH4AJEnbIj8FcdZMISJhwCs5WzaLuk

-0-11-0 1-9-8 | 6-3-8 | 10-9-8 | 16-5-14 | 21-7-0 | 22-6-0
0-11-0 1-9-8 | 4-6-0 | 4-6-0 | 5-8-6 | 5-1-2 | 0-11-0

5x8 ||

Scale = 1:60.6

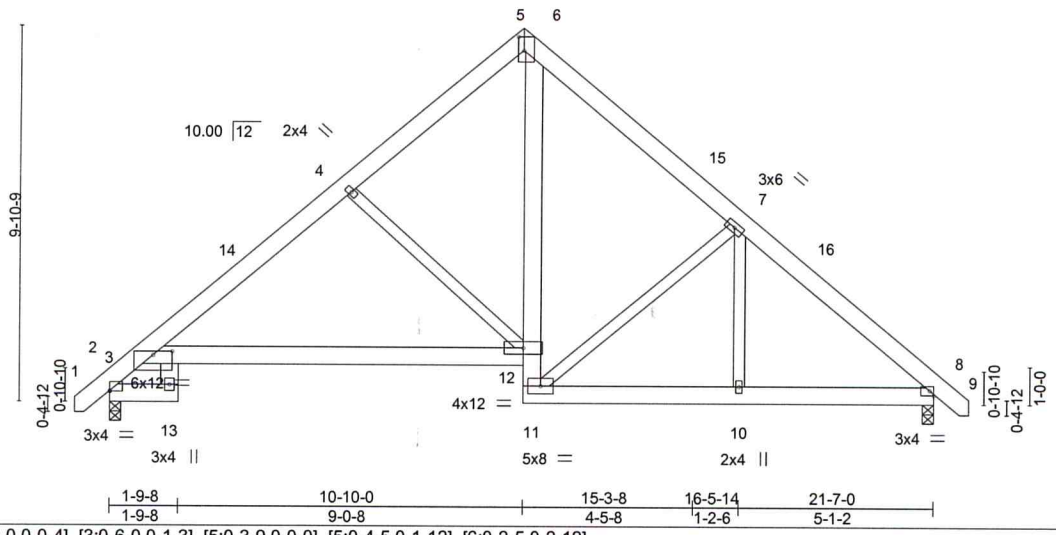

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-6-0,0-1-3], [5:0-3-9,0-0-0], [5:0-4-5,0-1-12], [6:0-2-5,0-2-12]

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	0.39	Vert(LL)	-0.12	3-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.28	3-12	>897	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	3-12	>999	240	Weight: 172 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-13.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-232(LC 10)
Max Uplift 2=-39(LC 12), 8=-48(LC 13)
Max Grav 2=923(LC 1), 8=909(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-740/166, 3-4=-1054/272, 4-5=-846/277, 5-6=-270/150, 6-7=-820/281, 7-8=-1082/236
BOT CHORD 3-12=-78/890, 11-12=-92/364, 6-12=-187/776, 10-11=-60/736, 8-10=-60/736
WEBS 4-12=-442/234, 7-11=-426/202

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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 22-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2, 8.

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818 Soundside Road
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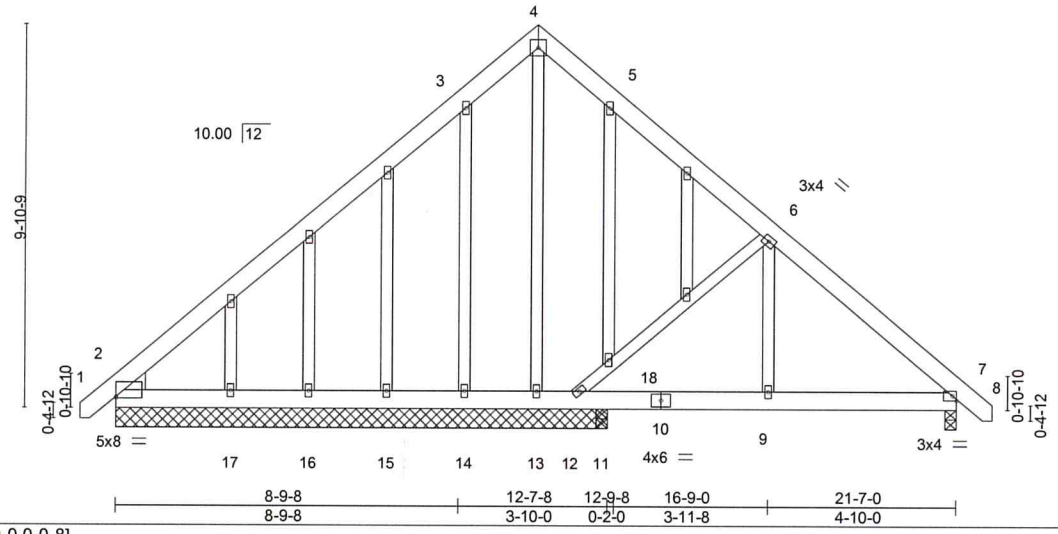
Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	A1GE	HIP STRUCTURAL GABLE	1	1	E14188562
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:56 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-RjvBLL4StqUsnLsHj0l07WGLW00c5gdSwayQdyzaLuj

-0-11-0	8-9-8	12-9-8	21-7-0	22-6-0
0-11-0	8-9-8	4-0-0	8-9-8	0-11-0

5x5 =

Scale = 1:59.5



8-9-8	12-7-8	12-9-8	16-9-0	21-7-0
8-9-8	3-10-0	0-2-0	3-11-8	4-10-0

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

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	0.29	Vert(LL)	0.01	2-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	
Left: 2x6 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 12-7-8 except (jt=length) 7=0-3-8, 11=0-3-8.
(lb) - Max Horz 2=289(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 16, 2 except 14=-536(LC 12), 17=-197(LC 12), 12=-244(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 13, 15, 16, 12, 11 except 7=491(LC 24), 14=709(LC 19), 17=377(LC 19), 2=318(LC 21)

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

TOP CHORD	2-3=-405/315, 6-7=-491/0
BOT CHORD	2-17=-327/399, 16-17=-327/399, 15-16=-327/399, 14-15=-327/399, 13-14=-327/399, 12-13=-327/399, 11-12=0/305, 9-11=0/305, 7-9=0/303
WEBS	3-14=-672/566, 12-18=-506/310, 6-18=-459/277

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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 16, 2 except (jt=lb) 14=536, 17=197, 12=244.

March 16,2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188563
J0320-1191	A2	COMMON	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:57 2020 Page 1
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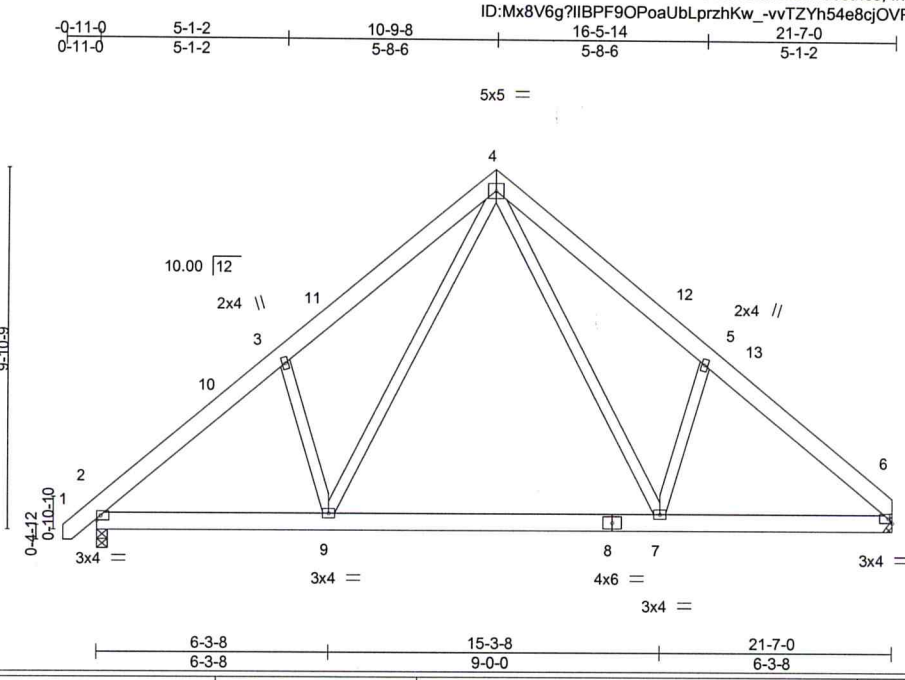

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.09	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.14	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	9	>999	240	Weight: 163 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=229(LC 11)
Max Uplift 6=-35(LC 13), 2=-48(LC 12)
Max Grav 6=912(LC 20), 2=967(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1219/235, 3-4=-1152/390, 4-5=-1159/405, 5-6=-1220/243
BOT CHORD 2-9=-75/972, 7-9=0/615, 6-7=-75/854
WEBS 4-7=-184/667, 5-7=-363/273, 4-9=-179/657, 3-9=-358/268

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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.

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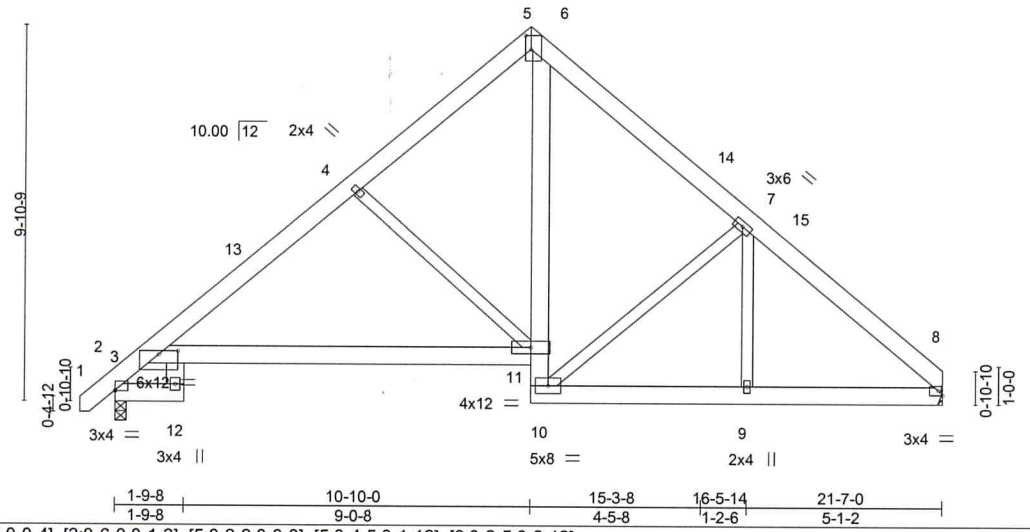
Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	A2A	ROOF SPECIAL	3	1	E14188564
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:57 2020 Page 1
ID:Mx8V6g?IlBPF9OPoaUbLprzhKw_-vvTZYh54e8cjOVRTHkGFgjoUjQI0qCpc9Ehz9OzaLui

-0-11-0	1-9-8	6-3-8	10-9-8	16-5-14	21-7-0
0-11-0	1-9-8	4-6-0	4-6-0	5-8-6	5-1-2

Scale = 1:60.6



1-9-8	10-10-0	15-3-8	16-5-14	21-7-0
1-9-8	9-0-8	4-5-8	1-2-6	5-1-2

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-6-0,0-1-3], [5:0-3-9,0-0-0], [5:0-4-5,0-1-12], [6:0-2-5,0-2-12]

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	0.39	Vert(LL)	-0.12	3-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.29	3-11	>898	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.06	3-11	>999	240	Weight: 169 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-12.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=229(LC 9)
Max Uplift 8=-35(LC 13), 2=-39(LC 12)
Max Grav 8=855(LC 1), 2=928(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-745/163, 3-4=-1062/275, 4-5=-855/280, 5-6=-271/151, 6-7=-829/290, 7-8=-1077/246
BOT CHORD 3-11=-83/890, 10-11=-99/371, 6-11=-202/786, 9-10=-76/754, 8-9=-76/754
WEBS 4-11=-444/237, 7-10=-436/212

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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.

March 16,2020

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188565
J0320-1191	A2GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:58 2020 Page 1
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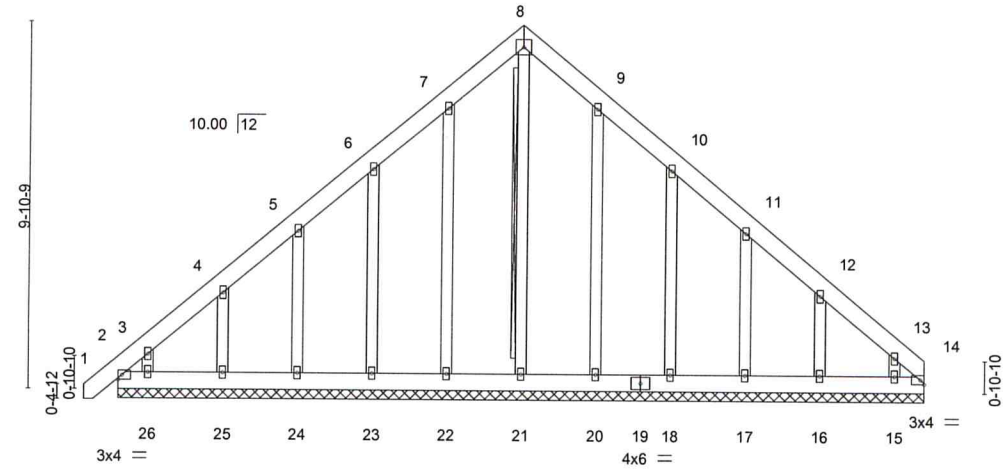
-0-11-0 10-9-8 21-7-0
0-11-0 10-9-8 10-9-8

5x5 =

Scale = 1:61.9



21-7-0
21-7-0

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	0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 192 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 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-21
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 21-7-0.
(lb) - Max Horz 2=286(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 22, 20 except 14=-127(LC 11), 2=-157(LC 10), 23=-123(LC 12), 24=-108(LC 12), 25=-120(LC 12), 26=-186(LC 12), 18=-125(LC 13), 17=-109(LC 13), 16=-119(LC 13), 15=-187(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 21, 23, 24, 25, 26, 20, 18, 17, 16, 15 except 14=286(LC 13), 2=295(LC 12), 22=251(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-405/249, 3-4=-270/193, 13-14=-359/231

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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 20 except (jt=lb) 14=127, 2=157, 23=123, 24=108, 25=120, 26=186, 18=125, 17=109, 16=119, 15=187.
10) 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	Lot 13 Blackberry Manor
J0320-1191	A3	COMMON	6	1	E14188566
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:02:59 2020 Page 1
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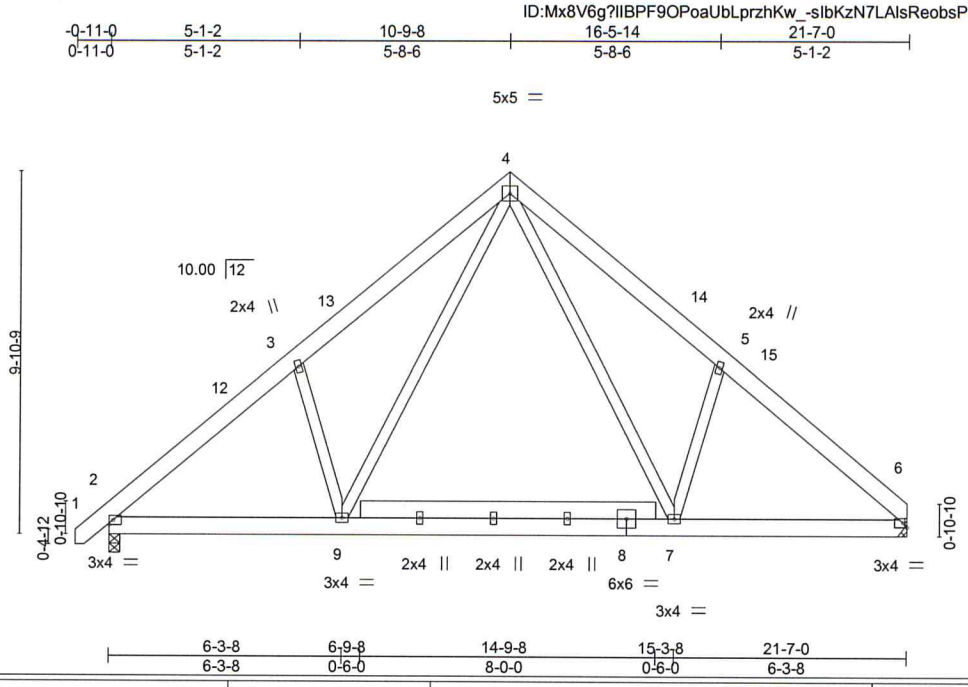


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.09	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.14	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.01	9	>999	240	Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

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

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=229(LC 11)
Max Uplift 6=-35(LC 13), 2=-48(LC 12)
Max Grav 6=912(LC 20), 2=967(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1219/235, 3-4=-1152/390, 4-5=-1159/405, 5-6=-1220/243
BOT CHORD 2-9=-75/972, 7-9=0/615, 6-7=-75/854
WEBS 4-7=-184/667, 5-7=-363/273, 4-9=-179/657, 3-9=-358/268

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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.

March 16,2020

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

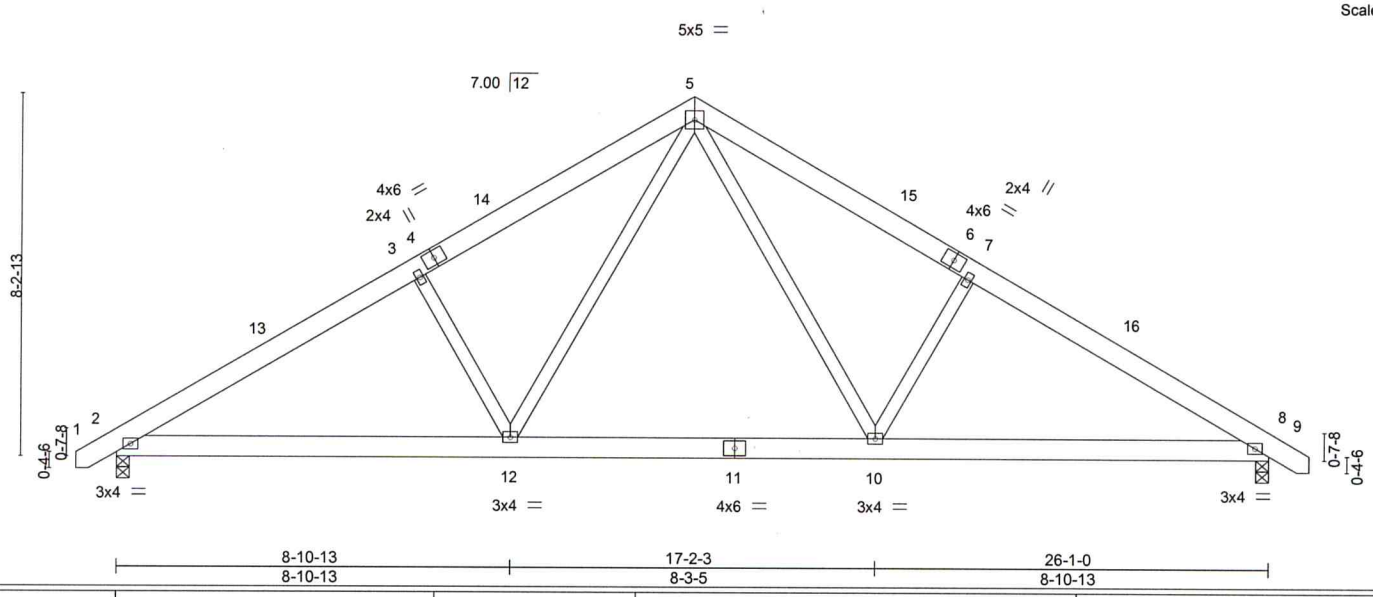
Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188567
J0320-1191	B1	COMMON	3	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:00 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-KU9iAj7zx3_IFyA2ysqyIMQ3FdMO1ce2rCwdmjzaLuf

0-11-0	6-10-0	13-0-8	19-3-0	26-1-0	27-0-0
0-11-0	6-10-0	6-2-8	6-2-8	6-10-0	0-11-0

Scale = 1:52.4



8-10-13	17-2-3	26-1-0
8-10-13	8-3-5	8-10-13

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	0.18	Vert(LL)	-0.09	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.13	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	12	>999	240	Weight: 175 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 5-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=-193(LC 10)
Max Uplift 8=-71(LC 13), 2=-71(LC 12)
Max Grav 8=1141(LC 20), 2=1141(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1714/335, 3-5=-1558/384, 5-7=-1559/384, 7-8=-1714/335
BOT CHORD 2-12=-174/1519, 10-12=-11/998, 8-10=-183/1375
WEBS 5-10=-122/737, 7-10=-409/240, 5-12=-122/737, 3-12=-409/240

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) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 13-0-8, Exterior(2) 13-0-8 to 17-5-5, Interior(1) 17-5-5 to 26-10-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.

March 16,2020

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

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	B1GRD	Common Girder	1	2	E14188568
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:02 2020 Page 1
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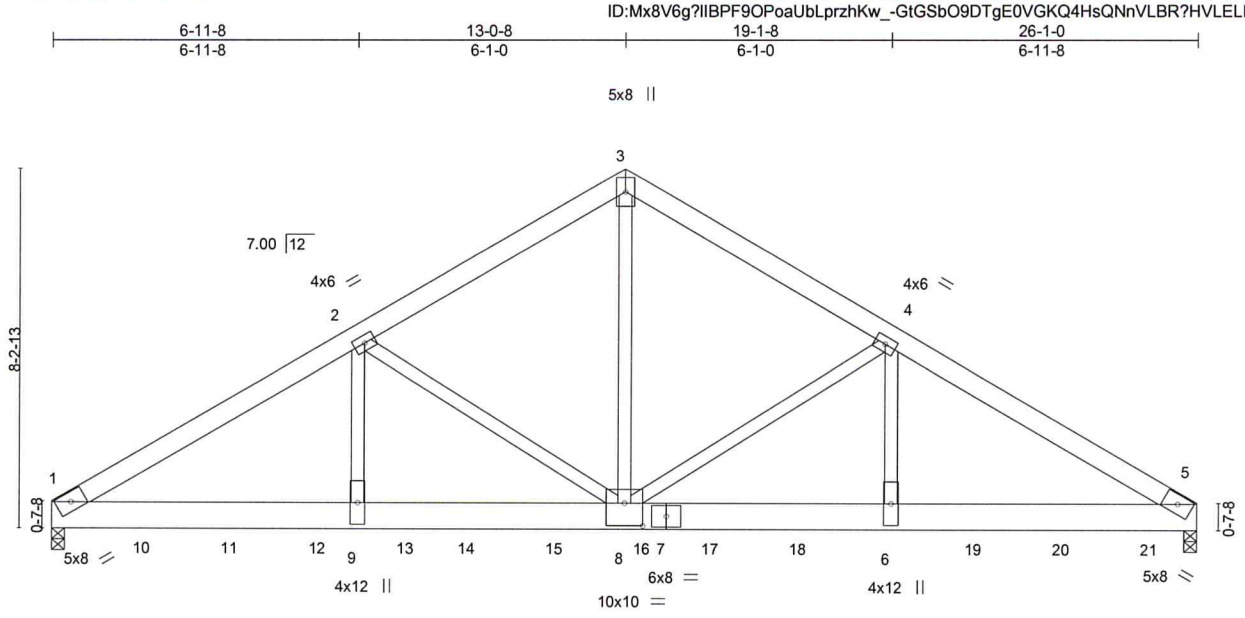

Plate Offsets (X,Y)-- [8:0-5-0,0-6-4]

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	0.41	Vert(LL)	-0.11	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.22	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08	8-9	>999	240	Weight: 385 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=184(LC 26)
Max Uplift 1=-354(LC 8), 5=-373(LC 9)
Max Grav 1=6269(LC 2), 5=6616(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-10028/574, 2-3=-6870/454, 3-4=-6871/454, 4-5=-9921/568
BOT CHORD 1-9=-503/8530, 8-9=-503/8530, 6-8=-407/8435, 5-6=-407/8435
WEBS 3-8=-355/6478, 4-8=-3123/296, 4-6=-85/3014, 2-8=-3249/302, 2-9=-91/3230

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: 2x8 - 2 rows staggered at 0-9-0 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); 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=354, 5=373.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 860 lb down and 55 lb up at 2-0-12, 860 lb down and 55 lb up at 4-0-12, 860 lb down and 55 lb up at 6-0-12, 860 lb down and 55 lb up at 8-0-12, 860 lb down and 55 lb up at 9-5-8, 860 lb down and 55 lb up at 11-5-8, 860 lb down and 55 lb up at 13-5-8, 860 lb down and 55 lb up at 15-0-4, 860 lb down and 55 lb up at 17-0-4, 860 lb down and 55 lb up at 19-0-4, 835 lb down and 55 lb up at 21-0-4, and 835 lb down and 55 lb up at 23-0-4, and 835 lb down and 54 lb up at 25-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 16,2020

Continued on page 2

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

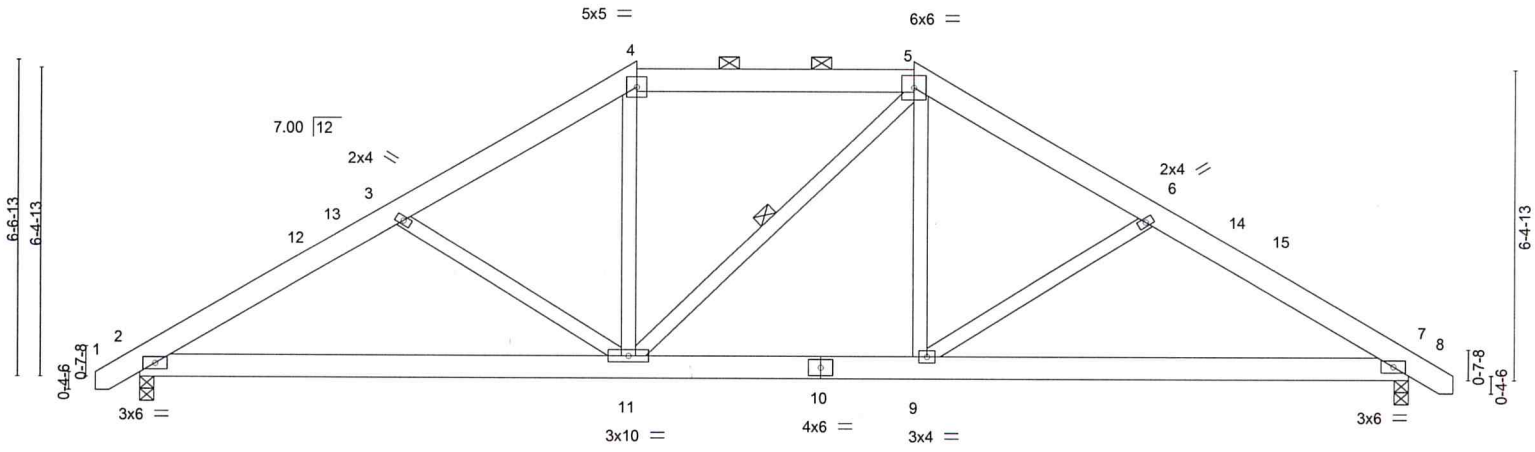
Vert: 6=-831(B) 10=-831(B) 11=-831(B) 12=-831(B) 13=-831(B) 14=-831(B) 15=-831(B) 16=-831(B) 17=-831(B) 18=-831(B) 19=-835(B) 20=-835(B) 21=-835(B)

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	B2	HIP	1	1	E14188569
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:03 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-k3qqpkArE_Mt6Qvde_Nfv_2avrNeEy2UX98HN2zaLuc

-0-11-0	5-4-14	10-2-3	15-10-13	20-8-2	26-1-0	27-0-0
0-11-0	5-4-14	4-9-6	5-8-9	4-9-6	5-4-14	0-11-0

Scale: 1/4"=1'



10-2-3	15-10-13	26-1-0
10-2-3	5-8-9	10-2-3

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	0.15	Vert(LL)	-0.07	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.15	7-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	11	>999	240	Weight: 180 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 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-152(LC 10)
Max Uplift 2=-58(LC 12), 7=-58(LC 13)
Max Grav 2=1087(LC 1), 7=1087(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1593/439, 3-4=-1335/377, 4-5=-1084/375, 5-6=-1334/377, 6-7=-1593/439
BOT CHORD 2-11=-290/1309, 9-11=-118/1083, 7-9=-291/1309
WEBS 3-11=-339/207, 4-11=-18/380, 5-9=-16/380, 6-9=-340/207

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) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 10-2-3, Exterior(2) 10-2-3 to 22-1-7, Interior(1) 22-1-7 to 26-10-5 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 7.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 16,2020

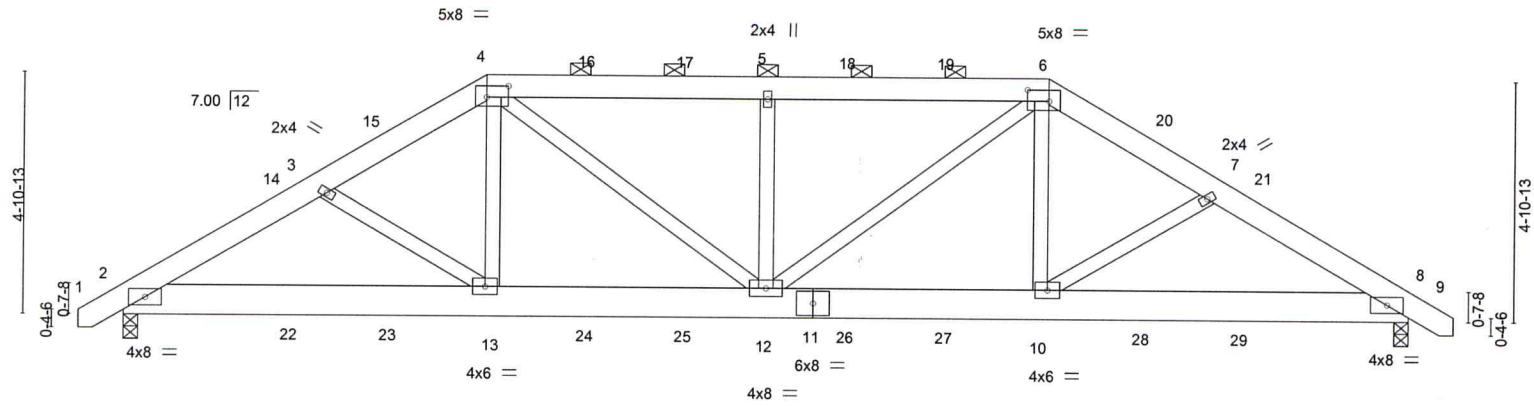
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188570
J0320-1191	B3GRD	HIP GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:05 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-gRybEQB5mbcaMj2?IPQ7?P7x_e4NitBn_TdORxzaLua

0-11-0	4-1-3	7-3-15	13-0-8	18-9-1	21-11-13	26-1-0	27-0-0
0-11-0	4-1-3	3-2-12	5-8-9	5-8-9	3-2-12	4-1-3	0-11-0

Scale = 1:47.0



4-1-3	7-3-15	13-0-8	18-9-1	21-11-13	26-1-0
4-1-3	3-2-12	5-8-9	5-8-9	3-2-12	4-1-3

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

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	0.12	Vert(LL)	-0.03	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 401 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-114(LC 25)
Max Uplift 2=-431(LC 8), 8=-431(LC 9)
Max Grav 2=1670(LC 1), 8=1670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2640/748, 3-4=-2448/730, 4-5=-2563/817, 5-6=-2563/817, 6-7=-2448/730, 7-8=-2640/749
BOT CHORD 2-13=-674/2201, 12-13=-635/2102, 10-12=-577/2102, 8-10=-583/2201
WEBS 4-13=-1/542, 4-12=-285/620, 5-12=-616/451, 6-12=-286/620, 6-10=-2/542

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: 2x8 - 2 rows staggered at 0-9-0 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); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=431, 8=431.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 72 lb up at 3-4-11, 27 lb down and 36 lb up at 5-4-11, 125 lb down and 129 lb up at 7-3-15, 130 lb down and 125 lb up at 9-4-11, 130 lb down and 125 lb up at 11-4-11, 130 lb down and 125 lb up at 13-0-8, 130 lb down and 125 lb up at 14-8-5, 130 lb down and 125 lb up at 16-8-5, 125 lb down and 129 lb up at 18-9-1, and 27 lb down and 36 lb up at 20-8-5, and 70 lb down and 72 lb up at 22-8-5 on top chord, and 89 lb down and 28 lb up at 3-4-11, 118 lb down and 56 lb up at 5-4-11, 52 lb down at 7-4-11, 52 lb down at 9-4-11, 52 lb down at 11-4-11, 52 lb down at 13-0-8, 52 lb down at 14-8-5, 52 lb down at 16-8-5, 52 lb down at 18-8-5, and 118 lb down and 56 lb up at 20-8-5, and 89 lb down and 28 lb up at 22-8-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

March 16,2020

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	B3GRD	HIP GIRDER	1	2	E14188570
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:05 2020 Page 2
ID:Mx8V6g?IlBPF9OPoaUbLprzhKw_-gRybEQB5mbcaMj2?IPQ7?P7x_e4NitBn_TdORxzaLua

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 4=-73(F) 6=-73(F) 13=-26(F) 12=-26(F) 5=-73(F) 10=-26(F) 14=-30(F) 16=-73(F) 17=-73(F) 18=-73(F) 19=-73(F) 21=-30(F) 22=-89(F) 23=-118(F) 24=-26(F) 25=-26(F) 26=-26(F) 27=-26(F) 28=-118(F) 29=-89(F)

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

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188571
J0320-1191	C1	ROOF SPECIAL	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:06 2020 Page 1
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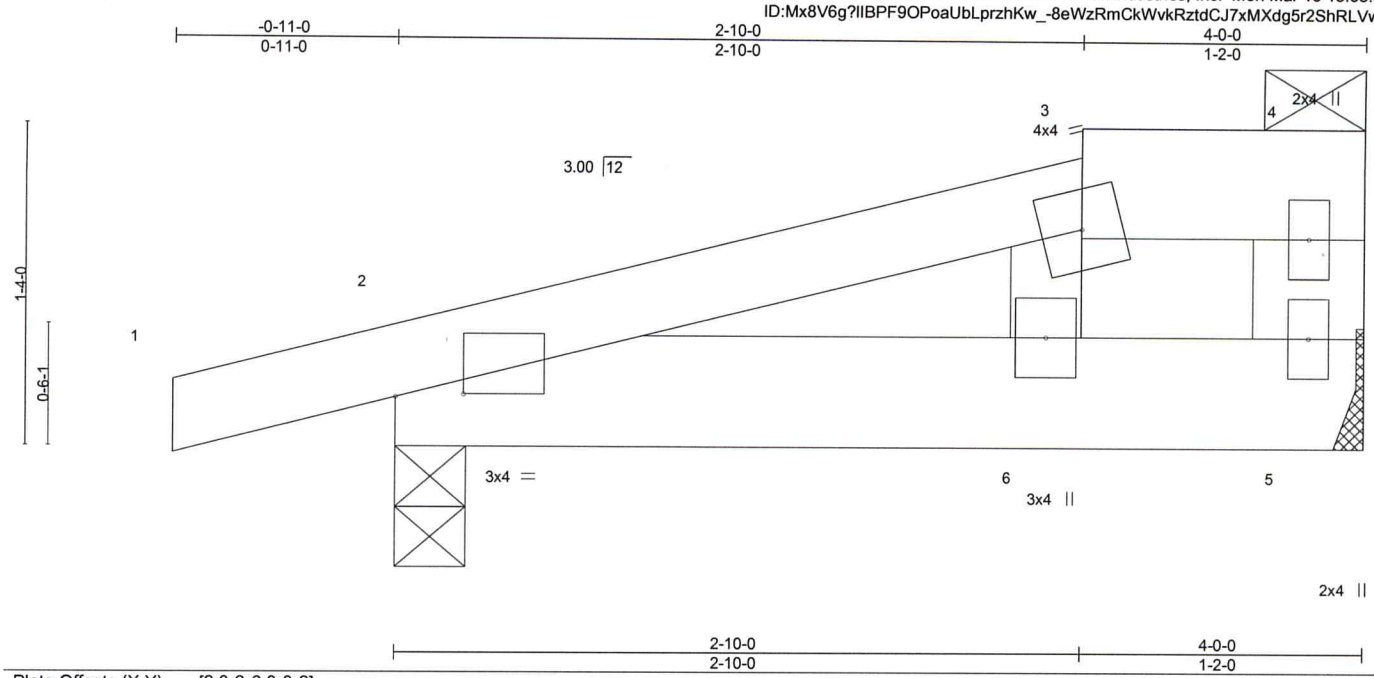

Plate Offsets (X,Y)-- [2:0-3-6,0-0-2]

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	0.17	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.00	6	>999	240	Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
3-4: 2x6 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 2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-6, 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=34(LC 8)
Max Uplift 2=-60(LC 8), 5=-19(LC 8)
Max Grav 2=263(LC 1), 5=272(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) and C-C Exterior(2) -0-11-0 to 2-10-0, Interior(1) 2-10-0 to 3-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
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, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 2-5=-20, 3-4=-75
Concentrated Loads (lb)
Vert: 3=-168

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	C2	ROOF SPECIAL	2	2	E14188572
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:07 2020 Page 1
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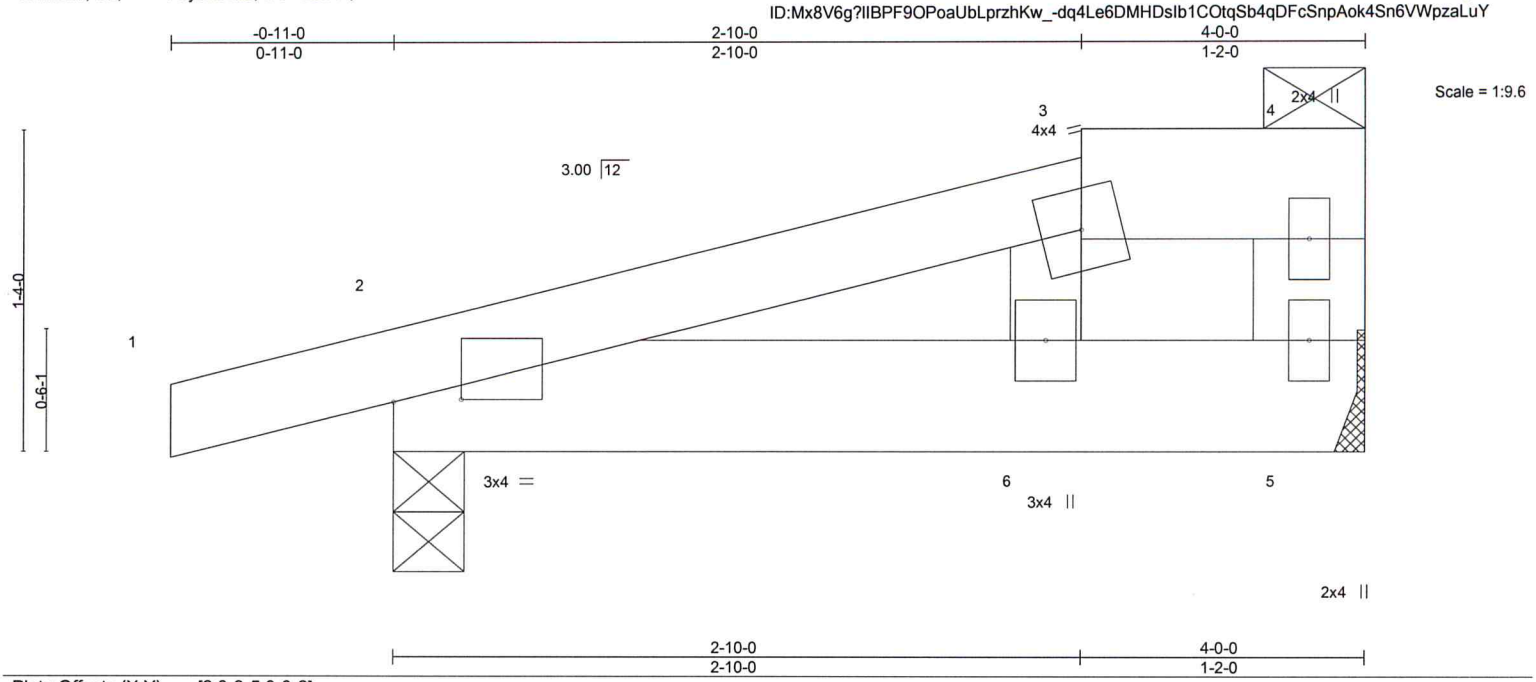


Plate Offsets (X,Y)-- [2:0-3-5,0-0-2]

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	0.17	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	6	>999	240	Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
3-4: 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

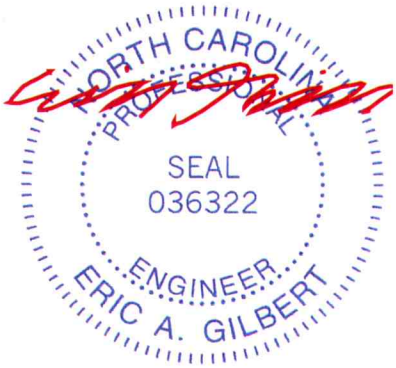
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-6, 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=47(LC 8)
Max Uplift 2=-135(LC 8), 5=-157(LC 8)
Max Grav 2=355(LC 1), 5=589(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-284/119, 3-6=-319/236
WEBS 4-5=-264/152

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
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) 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=135, 5=157.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 2-5=-20, 3-4=-187
   Concentrated Loads (lb)
   Vert: 3=-471

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	D1	Monopitch	7	1	E14188573
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:07 2020 Page 1
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0-11-0 4-0-0

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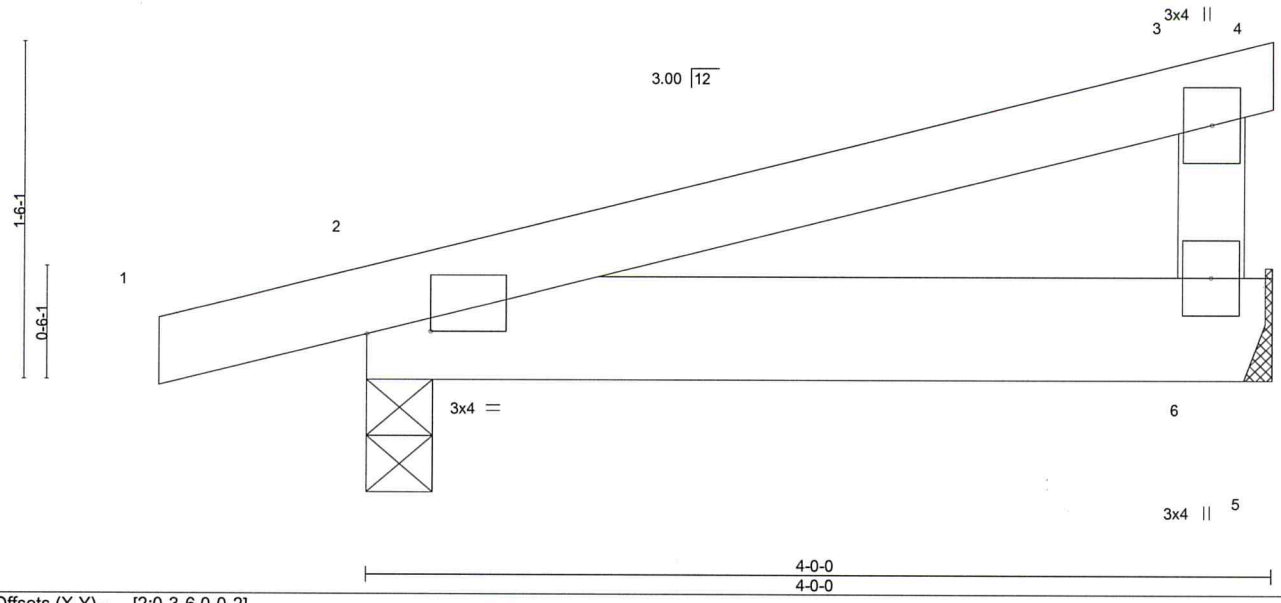

4-0-0
4-0-0

Plate Offsets (X,Y)-- [2:0-3-6,0-0-2]

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	0.14	Vert(LL)	-0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=59(LC 8)
Max Uplift 6=-49(LC 12), 2=-94(LC 8)
Max Grav 6=145(LC 1), 2=216(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) 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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.

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Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188574
J0320-1191	G1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:08 2020 Page 1
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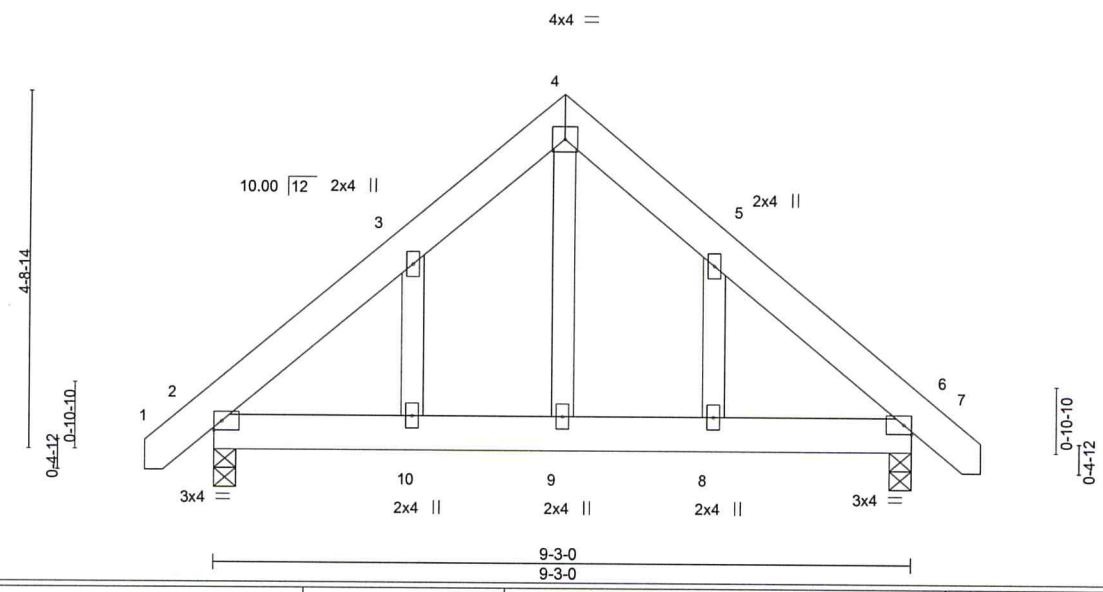
Scale = 1:30.7



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	0.05	Vert(LL)	0.01	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 68 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 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=135(LC 11)
Max Uplift 2=-87(LC 12), 6=-87(LC 13)
Max Grav 2=415(LC 1), 6=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-372/82, 3-4=-345/176, 4-5=-345/176, 5-6=-372/82

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) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

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Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	P1	MONOPITCH	8	1	E14188575
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:09 2020 Page 1
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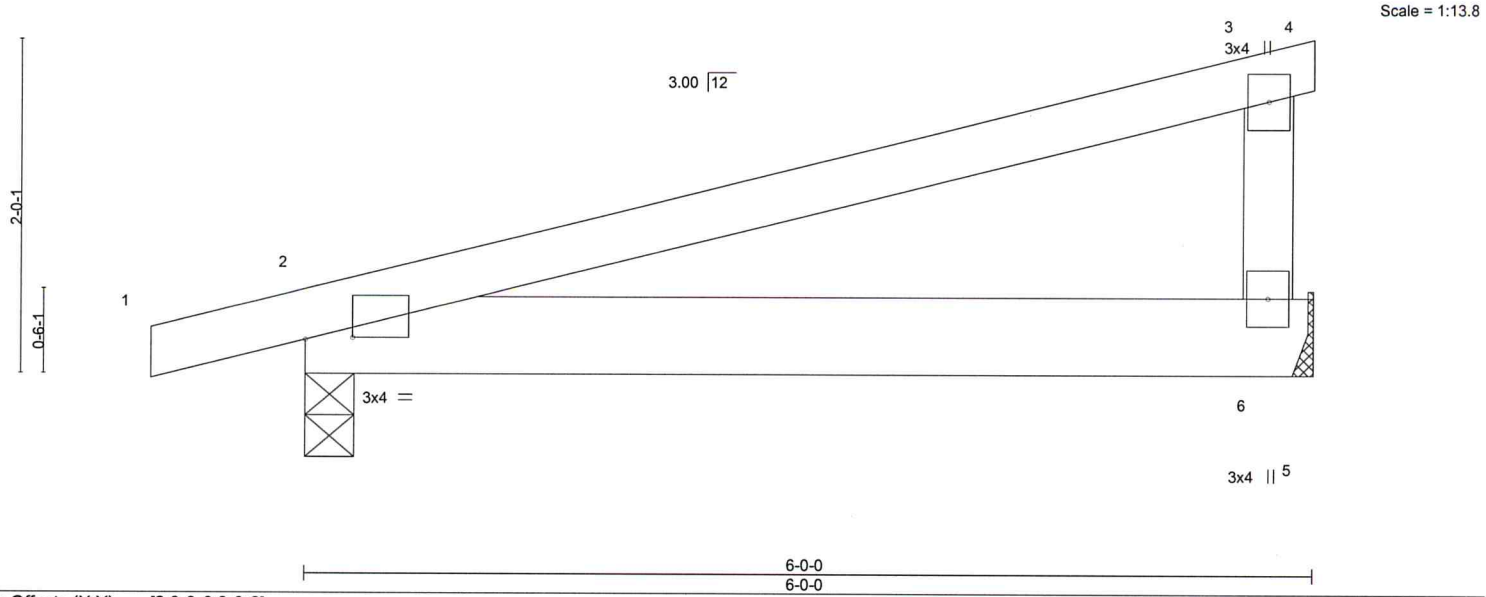

Plate Offsets (X,Y)-- [2:0-3-6,0-0-2]

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	0.42	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	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)	0.03	2-6	>999	240	Weight: 27 lb	FT = 20%

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

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

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=82(LC 8)
Max Uplift 6=-136(LC 8), 2=-174(LC 8)
Max Grav 6=228(LC 1), 2=293(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) 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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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=136, 2=174.

March 16,2020

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188576
J0320-1191	VB1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:10 2020 Page 1
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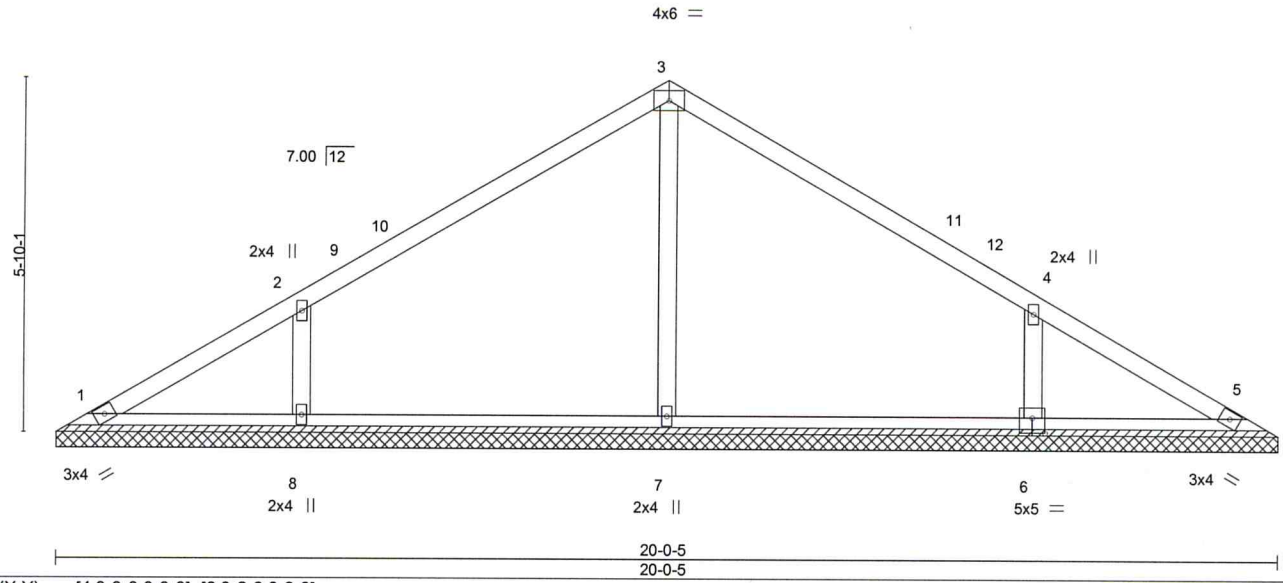

20-0-5 / 20-0-5

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

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 76 lb	FT = 20%

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

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

REACTIONS. All bearings 20-0-5.
(lb) - Max Horz 1=-132(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-123(LC 12), 6=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=411(LC 1), 8=483(LC 19), 6=481(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-285/47, 2-8=-396/238, 4-6=-395/237

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) 0-6-8 to 4-11-4, Interior(1) 4-11-4 to 10-0-2, Exterior(2) 10-0-2 to 14-4-15, Interior(1) 14-4-15 to 19-5-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=123, 6=122.

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Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	VB2	GABLE	1	1	E14188577
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:11 2020 Page 1
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7-1-14 / 7-1-14 | 14-3-12 / 7-1-14

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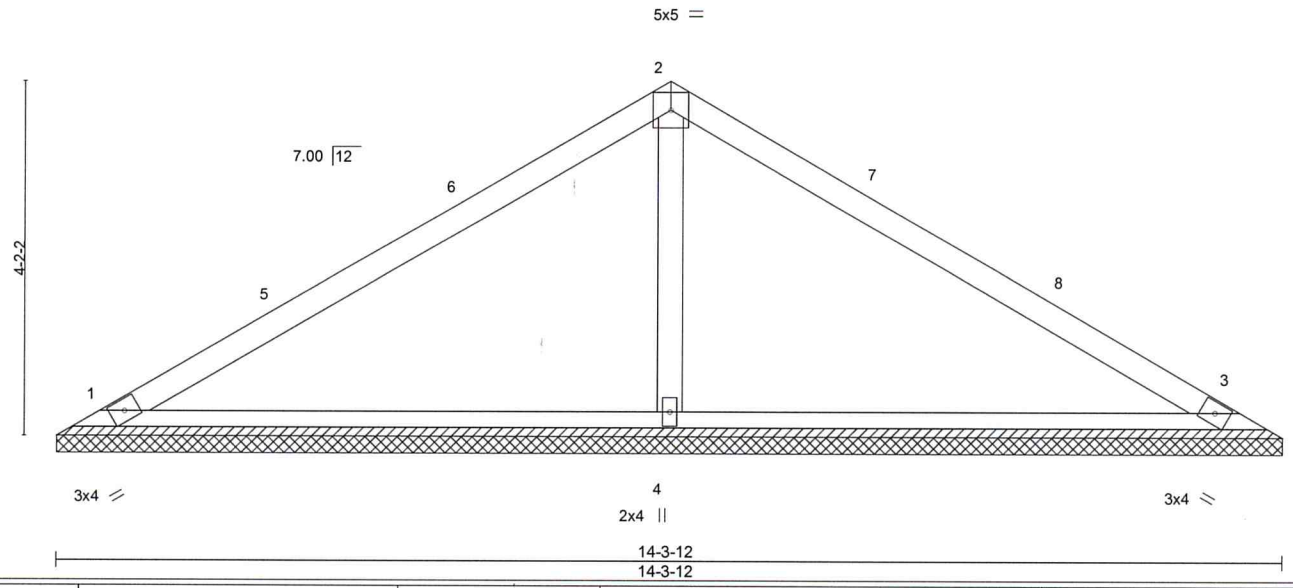

14-3-12 / 14-3-12

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	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 49 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) 1=14-3-12, 3=14-3-12, 4=14-3-12
Max Horz 1=-93(LC 8)
Max Uplift 1=-33(LC 12), 3=-42(LC 13)
Max Grav 1=252(LC 1), 3=252(LC 1), 4=554(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-360/153

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) 0-6-8 to 4-11-4, Interior(1) 4-11-4 to 7-1-14, Exterior(2) 7-1-14 to 11-6-11, Interior(1) 11-6-11 to 13-9-4 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036322 ERIC A. GILBERT

March 16,2020

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188578
J0320-1191	VB3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:11 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-VbJsUTGsLRNk4eW96gWYEgNwC39C6cTgNP4jfazaLuU

4-3-9 / 4-3-9 — 8-7-2 / 4-3-9

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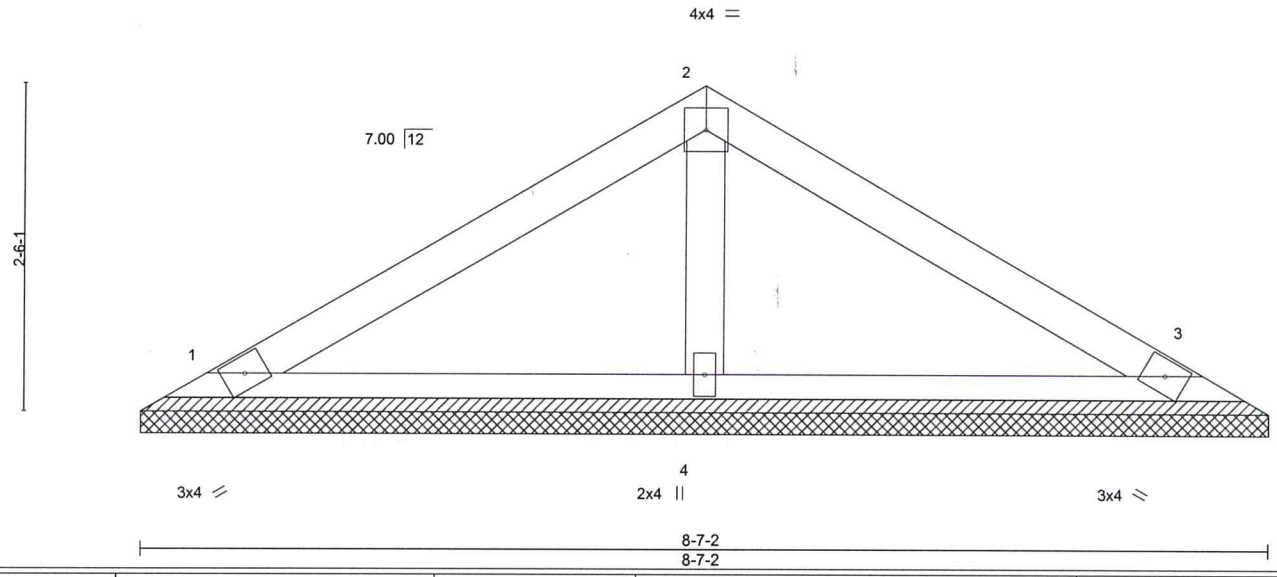


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 29 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) 1=8-7-2, 3=8-7-2, 4=8-7-2
Max Horz 1=53(LC 11)
Max Uplift 1=-25(LC 12), 3=-30(LC 13)
Max Grav 1=158(LC 1), 3=158(LC 1), 4=285(LC 1)

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

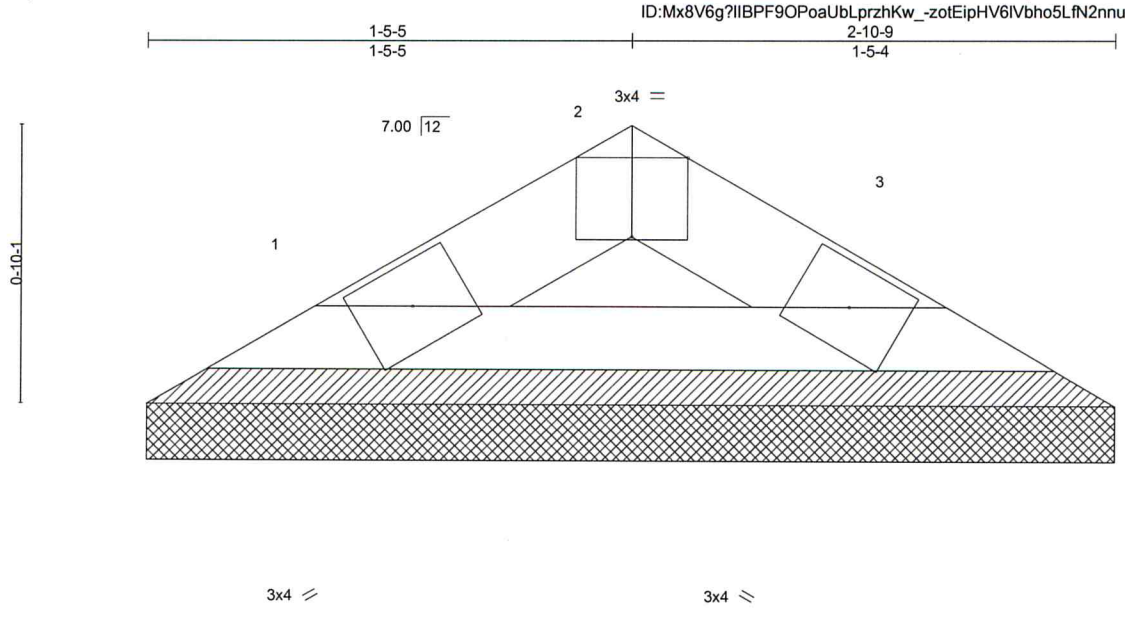
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

March 16,2020

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

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	VB4	VALLEY	1	1	E14188579
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:12 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-zotEipHV6lVbho5LfN2nnuw8sTWer36pb3qGB1zaLuT



Scale = 1:6.9

Plate Offsets (X,Y)-- [2:0-2-0,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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 8 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 2-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-10-9, 3=2-10-9
Max Horz 1=13(LC 11)
Max Uplift 1=-4(LC 12), 3=-4(LC 13)
Max Grav 1=72(LC 1), 3=72(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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

March 16,2020

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

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188580
J0320-1191	X1	JACK-OPEN	7	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:13 2020 Page 1
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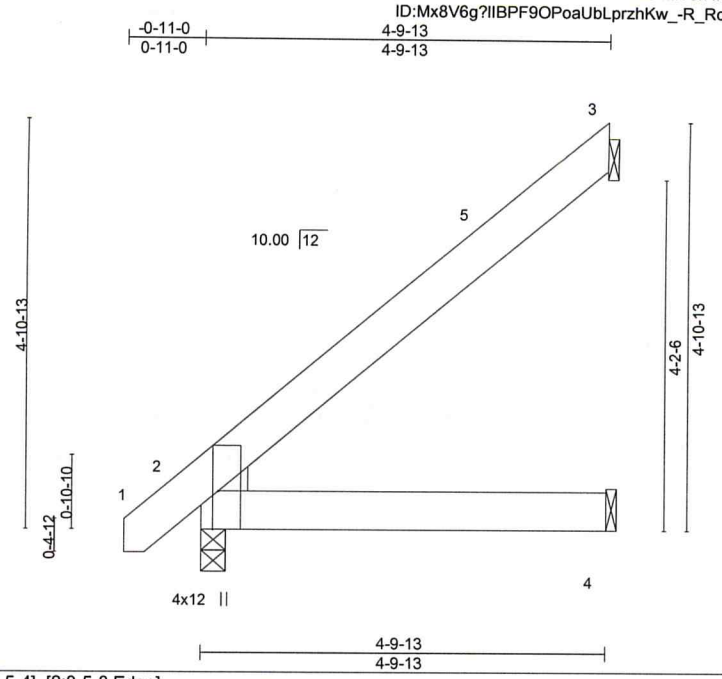

Plate Offsets (X,Y)-- [2:0-1-0,0-1-4], [2:0-2-1,0-5-4], [2:0-5-8,Edge]

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	0.16	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	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)	0.00	2	****	240	Weight: 30 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=149(LC 12)
Max Uplift 3=-112(LC 12)
Max Grav 3=157(LC 19), 2=247(LC 1), 4=92(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) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 4-9-1 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 3=112.

March 16,2020

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	X2	JACK-OPEN	2	1	E14188581
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:13 2020 Page 1
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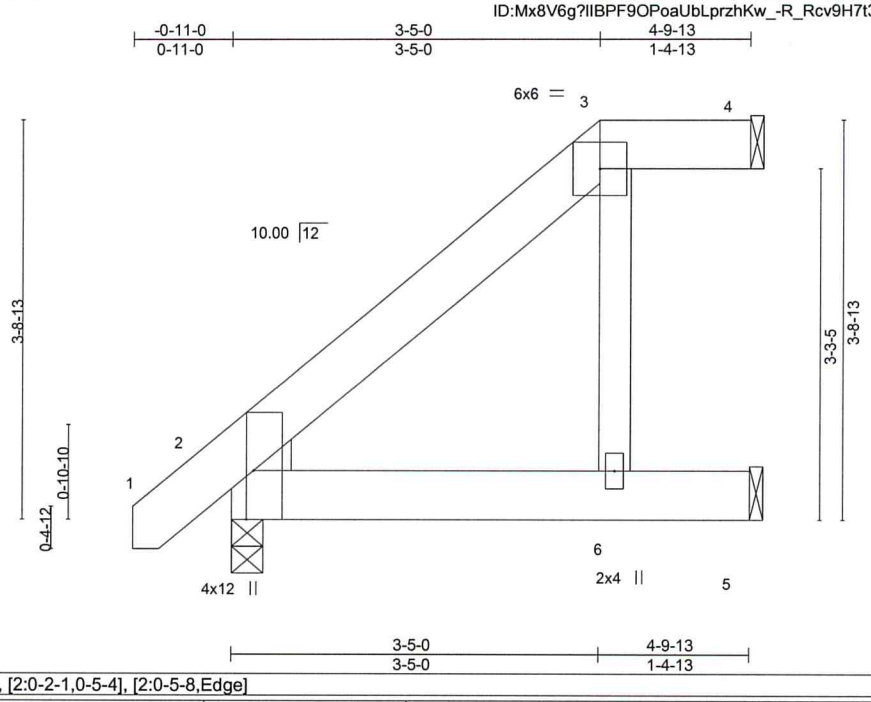

Plate Offsets (X,Y)-- [2:0-1-0,0-1-4], [2:0-2-1,0-5-4], [2:0-5-8,Edge]

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	0.08	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.01	2-6	>999	240	Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except
2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 4=-14(LC 8), 5=-36(LC 12)
Max Grav 4=40(LC 1), 2=247(LC 1), 5=140(LC 19)

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) 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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
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) 4, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 16,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor	E14188582
J0320-1191	X3GRD	JACK-OPEN GIRDER	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:14 2020 Page 1
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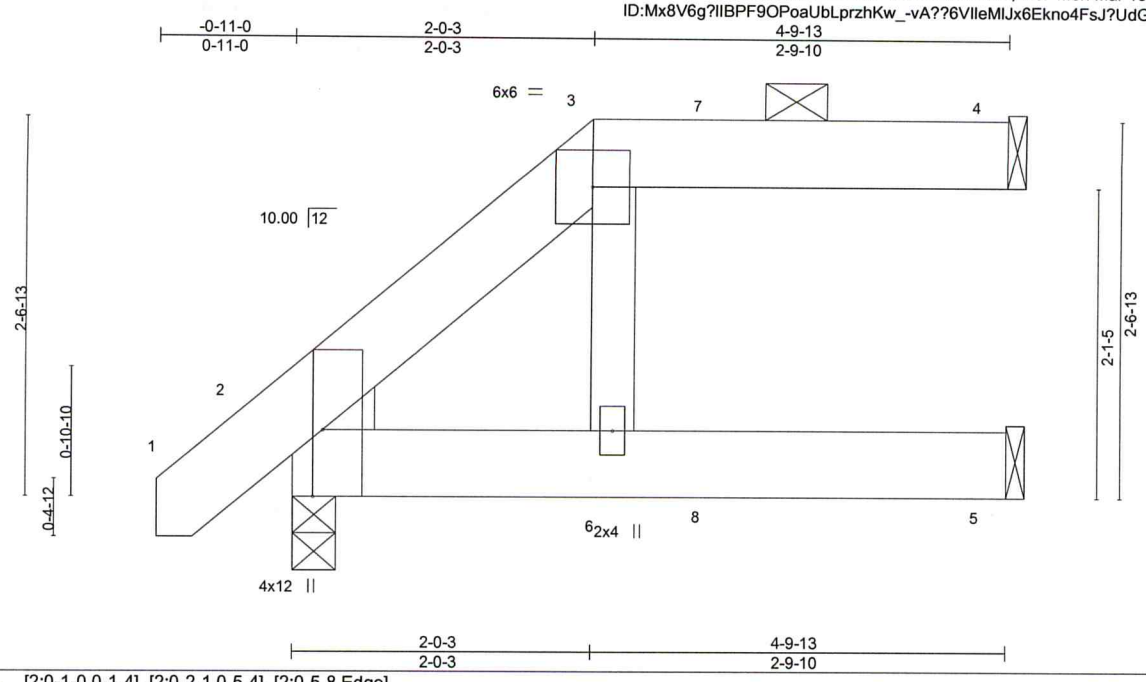


Scale = 1:15.6

Plate Offsets (X,Y)-- [2:0-1-0,0-1-4], [2:0-2-1,0-5-4], [2:0-5-8,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	0.06	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.01	6	>999	240	Weight: 30 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except
2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=76(LC 8)
Max Uplift 4=-40(LC 4), 2=-25(LC 8), 5=-8(LC 8)
Max Grav 4=90(LC 20), 2=260(LC 1), 5=124(LC 3)

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); 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
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) 4, 2, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 64 lb up at 2-10-9 on top chord, and 22 lb down at 2-10-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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: 1-3=-60, 3-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 7=-23(B) 8=-11(B)

March 16,2020

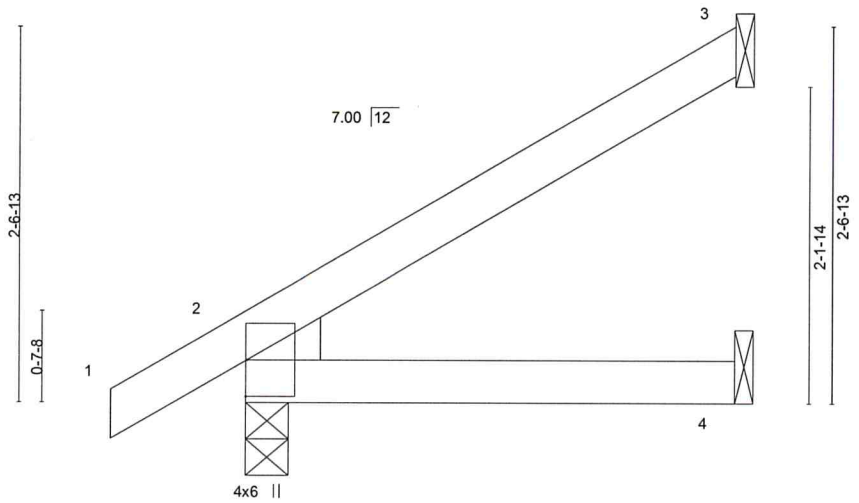
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 13 Blackberry Manor
J0320-1191	Y1	Jack-Open	2	1	E14188583
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 16 13:03:15 2020 Page 1
ID:Mx8V6g?IIBPF9OPoaUbLprzhKw_-ONZNKrJNPgtAYGpwLWbUPWYd3gXU2QsFH12woMzaLuQ

-0-11-0 3-3-15
0-11-0 3-3-15

Scale = 1:15.8



3-3-15
3-3-15

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

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	0.14	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	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)	0.00	2	****	240	Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=78(LC 12)
Max Uplift 3=-55(LC 12), 2=-5(LC 12)
Max Grav 3=94(LC 19), 2=199(LC 1), 4=62(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;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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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.

March 16,2020

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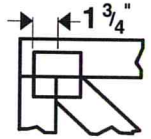
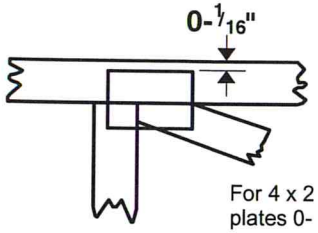
Edenton, NC 27932

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.

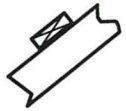
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

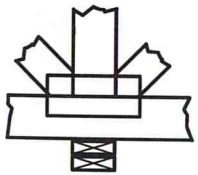
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

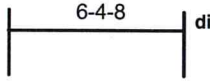


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

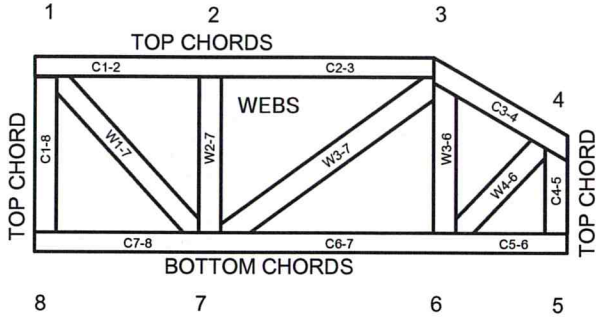
Industry Standards:

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



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.

MiTek

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

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.

OB Estimate

ComTech
ROOF & FLOOR TRUSSES & BEAMS
eilly Road Industrial Park P.O. Box 40408
ayetteville, N.C. 28309 (910) 864-TRUS
ary Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1191
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY		INVOICE #	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502		
DESIGNER		TRACKING	Hampton Horrocks

Benjamin Stout Real Estate
PO Box 53798
Fayetteville, NC 28305
(910) 476-4502

Ben Stout Real Estate
13 Kotata Ave
Harnett County, NC

JOB NAME: Lot 13 Blackberry Manor **LOT #** 13 **SUBDIV:** Blackberry Manor
MODEL: Roof **TAG:** Northbrook **JOB CATEGORY:** Residential - Roof

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
1303 Fraser Drive

PLAN SEAL DATE: N/A

ROOF TRUSSES

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	ID	SPAN FT-IN-16	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	NOTES
	4	10.00	0.00	A1	21-07-00	2 X 6	2 X 6	00-11-00	00-11-00			
	1	10.00	0.00	A1GE	21-07-00	2 X 6	2 X 6	00-11-00	00-11-00			
	4	10.00	0.00	A2	21-07-00	2 X 6	2 X 6	00-11-00				
	3	10.00	0.00	A2A	21-07-00	2 X 6	2 X 6	00-11-00				
	1	10.00	0.00	A2GE	21-07-00	2 X 6	2 X 6	00-11-00				
	6	10.00	0.00	A3	21-07-00	2 X 6	2 X 6	00-11-00				
	3	7.00	0.00	B1	26-01-00	2 X 6	2 X 6	00-11-00	00-11-00			
	1 / 2 Ply	7.00	0.00	B1GRD	26-01-00	2 X 6	2 X 8					
	1	7.00	0.00	B2	26-01-00	2 X 6	2 X 6	00-11-00	00-11-00			
	1 / 2 Ply	7.00	0.00	B3GRD	26-01-00	2 X 6	2 X 8	00-11-00	00-11-00			
	4	3.00	0.00	C1	02-10-00	2 X 4	2 X 6	00-11-00	01-02-00			
	2 / 2 Ply	3.00	0.00	C2	02-10-00	2 X 4	2 X 6	00-11-00	01-02-00			
	7	3.00	0.00	D1	04-00-00	2 X 4	2 X 6	00-11-00				
	1	10.00	0.00	G1GE	09-03-00	2 X 6	2 X 6	00-11-00	00-11-00			
	8	3.00	0.00	P1	06-00-00	2 X 4	2 X 6	00-11-00				
	1	7.00	0.00	VB1	20-00-05	2 X 4	2 X 4					
	1	7.00	0.00	VB2	14-03-12	2 X 4	2 X 4					
	1	7.00	0.00	VB3	08-07-02	2 X 4	2 X 4					
	1	7.00	0.00	VB4	02-10-09	2 X 4	2 X 4					
	7	10.00	0.00	X1	04-09-13	2 X 6	2 X 6	00-11-00				
	2	10.00	0.00	X2	04-09-13	2 X 6	2 X 6	00-11-00				
	2	10.00	0.00	X3GRD	04-09-13	2 X 6	2 X 6	00-11-00				
	2	7.00	0.00	Y1	03-03-15	2 X 4	2 X 4	00-11-00				
	1	Truss Drawings With B-1 and B-3 Bracing And Handling Instructions (Included in truss price)										

ROOF SUB-TOTAL: $ 3,428.06

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES

ob Estimate

ComTech

ROOF & FLOOR TRUSSES & BEAMS

eilly Road Industrial Park P.O. Box 40408
ayetteville, N.C. 28309 (910) 864-TRUS
ary Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1191
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY		INVOICE #	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502		
DESIGNER		TRACKING	Hampton Horrocks

Benjamin Stout Real Estate
PO Box 53798
Fayetteville, NC 28305
(910) 476-4502

Ben Stout Real Estate
13 Kotata Ave
Harnett County, NC

JOB NAME: Lot 13 Blackberry Manor **LOT #** 13 **SUBDIV:** Blackberry Manor
MODEL: Roof **TAG:** Northbrook **JOB CATEGORY:** Residential - Roof

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
1303 Fraser Drive

PLAN SEAL DATE: N/A

TEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
13	Hangers, USP	HUS 26			SIMPSON (HUS26)
10	Hangers, USP	JUS26			SIMPSON (LUS26)
1	Hangers, USP	THD26-2			SIMPSON (HHUS26-2)

ITEMS SUB-TOTAL: $ 34.30

ease examine this quote, as we agree to furnish at the price herein specified only the articles named and described herein. ices quoted are valid for thirty days unless otherwise specified. Additional design time made necessary by incorrect undation installation or plan changes may require additional charges. This estimate includes sealed engineering of individual ıss drawings only. Any requirement for additional engineering services will be billed in quarter hour increments as costs e incurred.

SUB-TOTAL	$3,462.36
SALES TAX 7.00%	$242.36
GRAND TOTAL	**$3704.72**

ACCEPTED BY SELLER

BY: _____

TITLE: _____

DATE OF ACCEPTANCE: _____

ACCEPTED BY BUYER

PURCHASER: _____

BY: _____ TITLE: _____

ADDRESS: _____

_____

PHONE: _____ DATE: _____

WARNING: As part of this proposal, we warn that trusses can be dangerous and cause property damage or personal injury if improperly installed and / or aced. Customer acceptance hereof shall constitute his affirmative representation to us that he is trained in the proper and safe methods of truss installation d bracing, and will use such methods. Customer acknowledges receipt of instructional pamphlet entitle: 'Bracing Wood Trusses: Commentary and recom- endations', HIB-91, as published by the Truss Plate Institute, Inc., and also the engineering drawings showing the required lateral bracing. By his acceptance, ıstomer agrees, for himself, his agents and employees, to hold Comtech Inc. harmless from any and all actions for property damage, personal injury, or ongful death resulting from improper installation and / or bracing during erection of the trusses comprehended hereby.

eaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
lly Road Industrial Park P.O. Box 40408
'etteville, N.C. 28309 (910) 864-TRUS
ry Office: (919) 816-0105

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COUNTY	Harnett	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Hampton Horrocks

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MODEL: Roof **TAG:** Northbrook **JOB CATEGORY:** Residential - Roof

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
1303 Fraser Drive

PLAN SEAL DATE: N/A

UILDING DEPARTMENT
oof Order

OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS				REQ. ENGINEERING					BY	DATE
END CUT	RETURN											QUOTE		/ /
	NO	GABLE STUDS	16 IN. OC			JOBSITE	1			JOBSITE	1	LAYOUT	mn	03/13/20
												CUTTING		/ /

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	4	10.00	0.00	ROOF A1	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 923.3 lbs. -39.2 lbs. Joint 8 908.9 lbs. -47.8 lbs.
	1	10.00	0.00	HIP A1GE	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 318.5 lbs. -49.0 lbs. Joint 7 491.4 lbs. -5.9 lbs. Joint 11 198.0 lbs. 53.7 lbs. Joint 12 248.7 lbs. -243.9 lbs. Joint 13 105.8 lbs. 22.2 lbs.
	4	10.00	0.00	COMMON A2	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00		Joint 2 966.8 lbs. -48.3 lbs. Joint 6 912.1 lbs. -35.0 lbs.
	3	10.00	0.00	ROOF A2A	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00		Joint 2 927.9 lbs. -39.4 lbs. Joint 8 854.5 lbs. -35.0 lbs.
	1	10.00	0.00	GABLE A2GE	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00		Joint 2 294.7 lbs. -157.5 lbs. Joint 14 285.7 lbs. -126.9 lbs. Joint 15 176.0 lbs. -186.6 lbs. Joint 16 190.9 lbs. -118.6 lbs. Joint 17 177.1 lbs. -108.6 lbs.
	6	10.00	0.00	COMMON A3	21-07-00 21-07-00	2 X 6	2 X 6	00-11-00		Joint 2 966.8 lbs. -48.3 lbs. Joint 6 912.1 lbs. -35.0 lbs.
	3	7.00	0.00	COMMON B1	26-01-00 26-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 1141.1 lbs. -71.2 lbs. Joint 8 1141.1 lbs. -71.2 lbs.
	1 / 2 Ply	7.00	0.00	COMMON B1GRD	26-01-00 26-01-00	2 X 6	2 X 8			Joint 1 6269.3 lbs. -354.4 lbs. Joint 5 6615.5 lbs. -373.2 lbs.
	1	7.00	0.00	HIP B2	26-01-00 26-01-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 1086.9 lbs. -57.7 lbs. Joint 7 1086.9 lbs. -57.7 lbs.
	1 / 2 Ply	7.00	0.00	HIP GIRDER B3GRD	26-01-00 26-01-00	2 X 6	2 X 8	00-11-00	00-11-00	Joint 2 1670.0 lbs. -430.7 lbs. Joint 8 1670.0 lbs. -430.7 lbs.
	4	3.00	0.00	ROOF C1	02-10-00 02-10-00	2 X 4	2 X 6	00-11-00	01-02-00	Joint 2 263.4 lbs. -59.8 lbs. Joint 5 272.5 lbs. -19.3 lbs.

eaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
lly Road Industrial Park P.O. Box 40408
'etteville, N.C. 28309 (910) 864-TRUS
ry Office: (919) 816-0105

REQ. QUOTE DATE	/ /	ORDER #	J0320-1191
ORDER DATE	03/13/20	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT #	0000007060
DATE OF INVOICE	/ /	CUSTOMER PO #	
ORDERED BY		INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT	Ben Stout	SALES REP	Marshall Naylor
JOBSITE PHONE #	(910) 476-4502	SALES AREA	Hampton Horrocks

Benjamin Stout Real Estate
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Fayetteville, NC 28305
(910) 476-4502

Ben Stout Real Estate
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Harnett County, NC

JOB NAME: Lot 13 Blackberry Manor **LOT #** 13 **SUBDIV:** Blackberry Manor
MODEL: Roof **TAG:** Northbrook **JOB CATEGORY:** Residential - Roof

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
1303 Fraser Drive

PLAN SEAL DATE: N/A

UILDING DEPARTMENT
)of Order

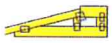
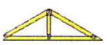
OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS		REQ. ENGINEERING			BY	DATE
END CUT	RETURN								QUOTE	/ /
	NO	GABLE STUDS	16 IN. OC	JOBSITE	1	JOBSITE	1		LAYOUT	mn 03/13/20
									CUTTING	/ /

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	2 2 Ply	3.00	0.00	ROOF C2	02-10-00 02-10-00	2 X 4	2 X 6	00-11-00	01-02-00	Joint 2 355.3 lbs. -135.4 lbs. Joint 5 588.5 lbs. -156.8 lbs.
	7	3.00	0.00	MONOPITCH D1	04-00-00 04-00-00	2 X 4	2 X 6	00-11-00		Joint 2 216.1 lbs. -94.2 lbs. Joint 6 145.1 lbs. -49.1 lbs.
	1	10.00	0.00	COMMON G1GE	09-03-00 09-03-00	2 X 6	2 X 6	00-11-00	00-11-00	Joint 2 414.9 lbs. -87.1 lbs. Joint 6 414.9 lbs. -87.1 lbs.
	8	3.00	0.00	MONOPITCH P1	06-00-00 06-00-00	2 X 4	2 X 6	00-11-00		Joint 2 292.9 lbs. -173.6 lbs. Joint 6 228.4 lbs. -136.2 lbs.
	1	7.00	0.00	GABLE VB1	20-00-05 20-00-05	2 X 4	2 X 4			Joint 1 119.8 lbs. -15.7 lbs. Joint 5 104.5 lbs. 8.5 lbs. Joint 6 481.2 lbs. -122.2 lbs. Joint 7 411.0 lbs. 52.0 lbs. Joint 8 482.7 lbs. -122.9 lbs.
	1	7.00	0.00	GABLE VB2	14-03-12 14-03-12	2 X 4	2 X 4			Joint 1 252.1 lbs. -32.7 lbs. Joint 3 252.1 lbs. -41.7 lbs. Joint 4 554.4 lbs. 4.9 lbs.
	1	7.00	0.00	VALLEY VB3	08-07-02 08-07-02	2 X 4	2 X 4			Joint 1 158.0 lbs. -25.2 lbs. Joint 3 157.9 lbs. -30.3 lbs. Joint 4 285.3 lbs. 16.0 lbs.
	1	7.00	0.00	VALLEY VB4	02-10-09 02-10-09	2 X 4	2 X 4			Joint 1 72.1 lbs. -4.1 lbs. Joint 3 72.1 lbs. -4.1 lbs.
	7	10.00	0.00	JACK-OPEN X1	04-09-13 04-09-13	2 X 6	2 X 6	00-11-00		Joint 2 246.7 lbs. 31.6 lbs. Joint 3 157.2 lbs. -111.9 lbs. Joint 4 92.2 lbs. 27.7 lbs.
	2	10.00	0.00	JACK-OPEN X2	04-09-13 04-09-13	2 X 6	2 X 6	00-11-00		Joint 2 246.7 lbs. 5.5 lbs. Joint 4 40.2 lbs. -13.8 lbs. Joint 5 140.5 lbs. -36.3 lbs.
	2	10.00	0.00	JACK-OPEN X3GRD	04-09-13 04-09-13	2 X 6	2 X 6	00-11-00		Joint 2 260.5 lbs. -25.0 lbs. Joint 4 90.2 lbs. -39.8 lbs. Joint 5 124.3 lbs. -7.6 lbs.

eaction Summary of Order

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DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:
1303 Fraser Drive

PLAN SEAL DATE: N/A

UILDING DEPARTMENT
)of Order

OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS				REQ. ENGINEERING					BY	DATE
END CUT	RETURN											QUOTE		/ /
	NO	GABLE STUDS	16 IN. OC			JOBSITE	1			JOBSITE	1	LAYOUT	mn	03/13/20
												CUTTING		/ /

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	2	7.00	0.00	JACK-OPEN Y1	03-03-15 03-03-15	2 X 4	2 X 4	00-11-00		Joint 2 199.4 lbs. -5.2 lbs. Joint 3 93.5 lbs. -55.0 lbs. Joint 4 62.4 lbs. 18.7 lbs.

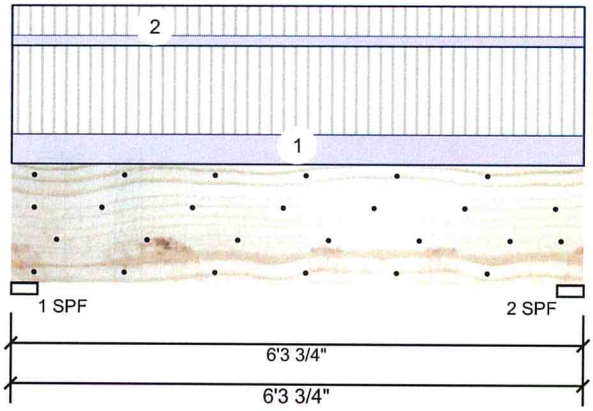
TEMS

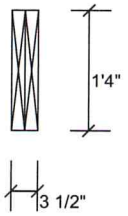
QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
13	Hangers, USP	HUS 26			SIMPSON (HUS26)
10	Hangers, USP	JUS26			SIMPSON (LUS26)
1	Hangers, USP	THD26-2			SIMPSON (HHUS26-2)

Client:	Ben Stout	Date:	3/16/2020
Project:		Input by:	Hampton Horrocks
Address:		Job Name:	Lot 13 Blackberry Manor
		Project #:	J0330-1192

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

Level: Level





Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1644	588	0	0	0
2	1644	588	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	43%	588 / 1644	2233	L	D+L
2 - SPF	3.500"	43%	588 / 1644	2233	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3052 ft-lb	3'1 7/8"	34565 ft-lb	0.088 (9%)	D+L	L
Unbraced	3052 ft-lb	3'1 7/8"	19518 ft-lb	0.156 (16%)	D+L	L
Shear	2062 lb	1'6 5/8"	11947 lb	0.173 (17%)	D+L	L
LL Defl inch	0.010 (L/6734)	3'1 7/8"	0.147 (L/480)	0.070 (7%)	L	L
TL Defl inch	0.014 (L/4959)	3'1 7/8"	0.196 (L/360)	0.070 (7%)	D+L	L

Design Notes

1 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
2 Refer to last page of calculations for fasteners required for specified loads.
3 Girders are designed to be supported on the bottom edge only.
4 Top braced at bearings.
5 Bottom braced at bearings.
6 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	130 PLF	389 PLF	0 PLF	0 PLF	0 PLF	F02
2	Uniform			Near Face	44 PLF	132 PLF	0 PLF	0 PLF	0 PLF	F03
	Self Weight				12 PLF					

Notes

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

Lumber

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

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/13/2022

Manufacturer Info

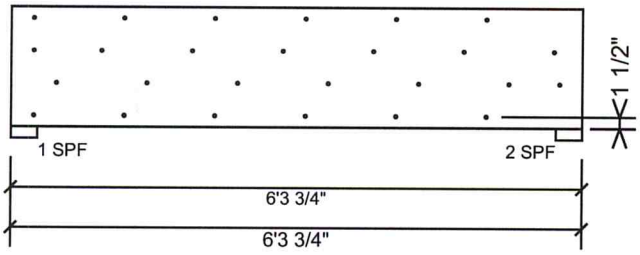
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us
ICC-ES: ESR-3633

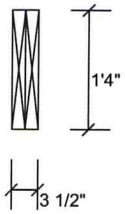
Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Ben Stout	Date:	3/16/2020
Project:		Input by:	Hampton Horrocks
Address:		Job Name:	Lot 13 Blackberry Manor
		Project #:	J0330-1192

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

Level: Level





Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	79.3 %
Load	259.5 PLF
Yield Limit per Foot	327.4 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Notes

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4. Design assumes top edge is laterally restrained
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This design is valid until 11/13/2022

Manufacturer Info

Metsä Wood
301 Merritt 7 Building, 2nd Floor
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