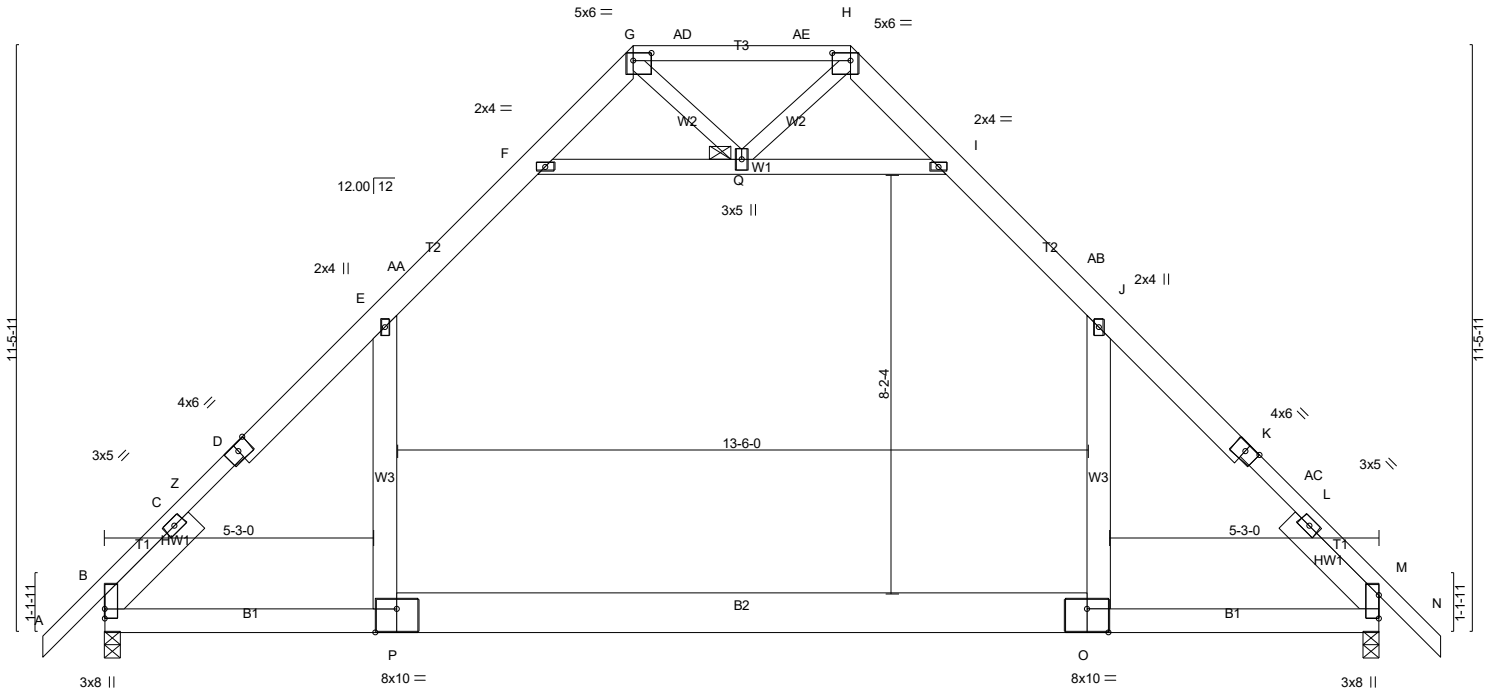
Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	AT	PIGGYBACK ATTIC	5	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:54 2021 Page 1
ID:3iyllN8lonmQ4lOsWlD0kjzXSMr-F3gGKx7fPAY7ZLe8rYg5B7oOM_KWkp1hbt5BG?zT9?F

-1-2-8	2-7-5	5-5-12	10-4-0	14-7-0	19-5-4	22-3-11	24-11-0	26-1-8
1-2-8	2-7-5	2-10-7	4-10-4	4-2-15	4-10-4	2-10-7	2-7-5	1-2-8

Scale = 1:45.1



2-7-5	5-5-12	19-5-4	22-3-11	24-11-0
2-7-5	2-10-7	13-11-8	2-10-7	2-7-5

Plate Offsets (X,Y)-- [G:0-4-4,0-1-12], [H:0-4-4,0-1-12], [O:0-5-0,Edge], [P:0-5-0,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.30	O-P	>982	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.47	O-P	>641	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Attic	-0.19	O-P	833	360	Weight: 213 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.2 *Except*
W1: 2x4 SP No.2, W2: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -t 2-6-0, Right 2x6 SP No.2 -t 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): G-H.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): Q

REACTIONS. (lb/size) B=1032/0-3-8 (min. 0-1-8), M=1032/0-3-8 (min. 0-1-8)
Max Horz B=-163(LC 10)
Max Grav B=1266(LC 18), M=1266(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-Z=-1450/0, D-Z=-1416/0, D-E=-1347/0, E-AA=-871/18, F-AA=-784/43, I-AB=-784/43, J-AB=-871/18, J-K=-1347/0, K-AC=-1416/0, L-AC=-1449/0, G-AD=0/300, AD-AE=0/300, H-AE=0/300
BOT CHORD B-P=0/905, O-P=0/926, M-O=0/902
WEBS E-P=0/758, J-O=0/758, F-Q=-1136/1, I-Q=-1135/1

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 10-4-0, Exterior(2) 10-4-0 to 18-9-14, Interior(1) 18-9-14 to 26-1-8 zone; cantilever left and right exposed ; 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 20.0psf 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) Ceiling dead load (5.0 psf) on member(s). E-F, I-J, F-Q, I-Q; Wall dead load (7.0psf) on member(s).E-P, J-O
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. O-P
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

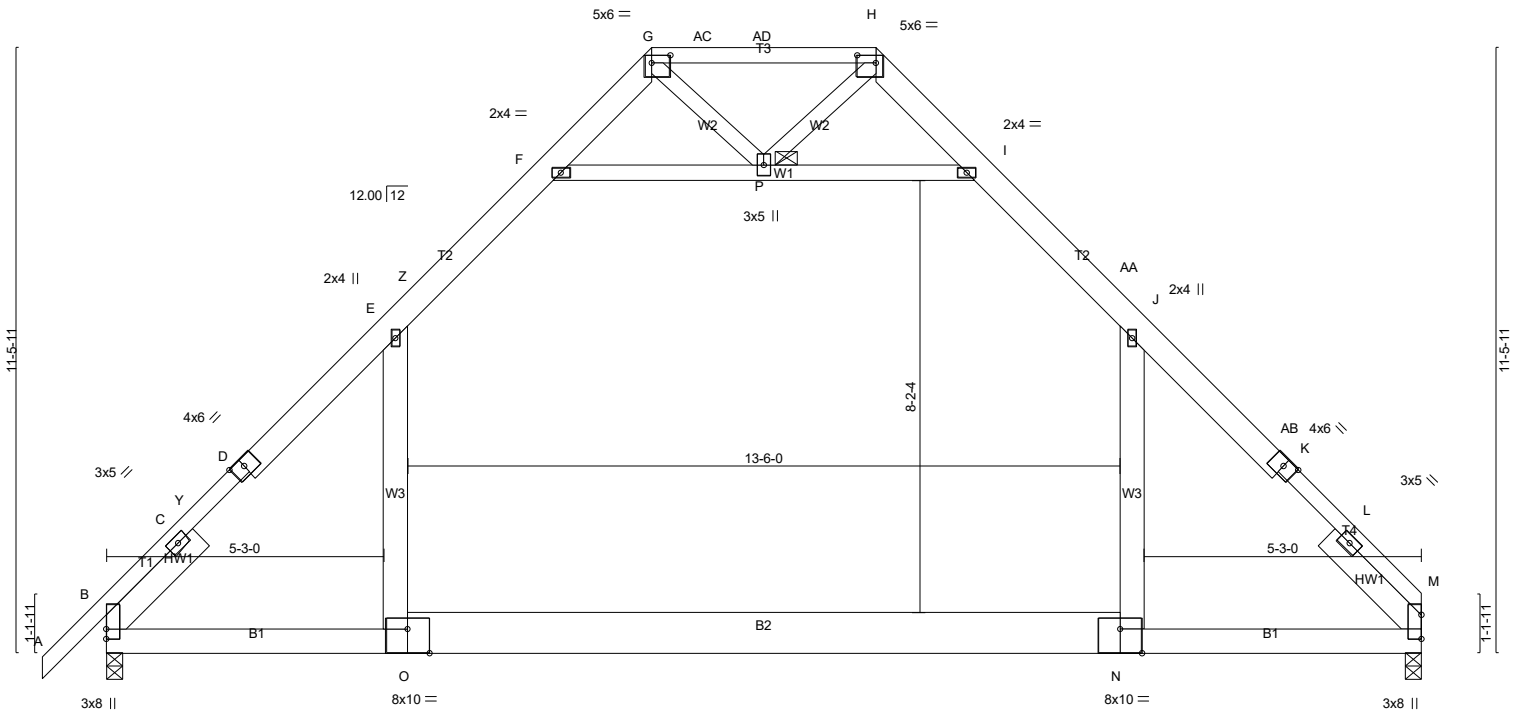
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	ATA	PIGGYBACK ATTIC	6	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:56 2021 Page 1
ID:3iyllN8IonmQ4IOsWID0kjzXSMr-BSo0ld8vxnorpenWzzjZGYtkeo?rCjW_3BaIKuzT9?D

-1-2-8	2-7-5	5-5-12	10-4-0	14-7-0	19-5-4	22-3-11	24-11-0
1-2-8	2-7-5	2-10-7	4-10-4	4-2-15	4-10-4	2-10-7	2-7-5

Scale = 1:43.7



2-7-5	5-5-12	19-5-4	22-3-11	24-11-0
2-7-5	2-10-7	13-11-8	2-10-7	2-7-5

Plate Offsets (X,Y)-- [G:0-4-4,0-1-12], [H:0-4-4,0-1-12], [N:0-5-0,Edge], [O:0-5-0,Edge]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.30	N-O	>982	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.47	N-O	>641	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Attic	-0.19	N-O	833	360	Weight: 211 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.2 *Except*
W1: 2x4 SP No.2, W2: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -t 2-6-0, Right 2x6 SP No.2 -t 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-14 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): G-H.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): P

REACTIONS. (lb/size) B=1034/0-3-8 (min. 0-1-8), M=973/0-3-8 (min. 0-1-8)
Max Horz B=157(LC 11)
Max Grav B=1267(LC 18), M=1212(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-Y=-1453/0, D-Y=-1420/0, D-E=-1351/0, E-Z=-873/18, F-Z=-787/44, I-AA=-786/43, J-AA=-872/20, J-AB=-1350/0, K-AB=-1404/0, K-L=-1452/0, G-AC=0/301, AC-AD=0/301, H-AD=0/301
BOT CHORD B-O=0/899, N-O=0/920, M-N=0/896
WEBS E-O=0/759, J-N=0/759, F-P=-1141/2, I-P=-1139/7

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 10-4-0, Exterior(2) 10-4-0 to 18-9-14, Interior(1) 18-9-14 to 24-11-0 zone; cantilever left and right exposed ; 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 20.0psf 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) Ceiling dead load (5.0 psf) on member(s). E-F, I-J, F-P, I-P; Wall dead load (7.0psf) on member(s).E-O, J-N
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. N-O
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	ATG	GABLE	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:57 2021 Page 1
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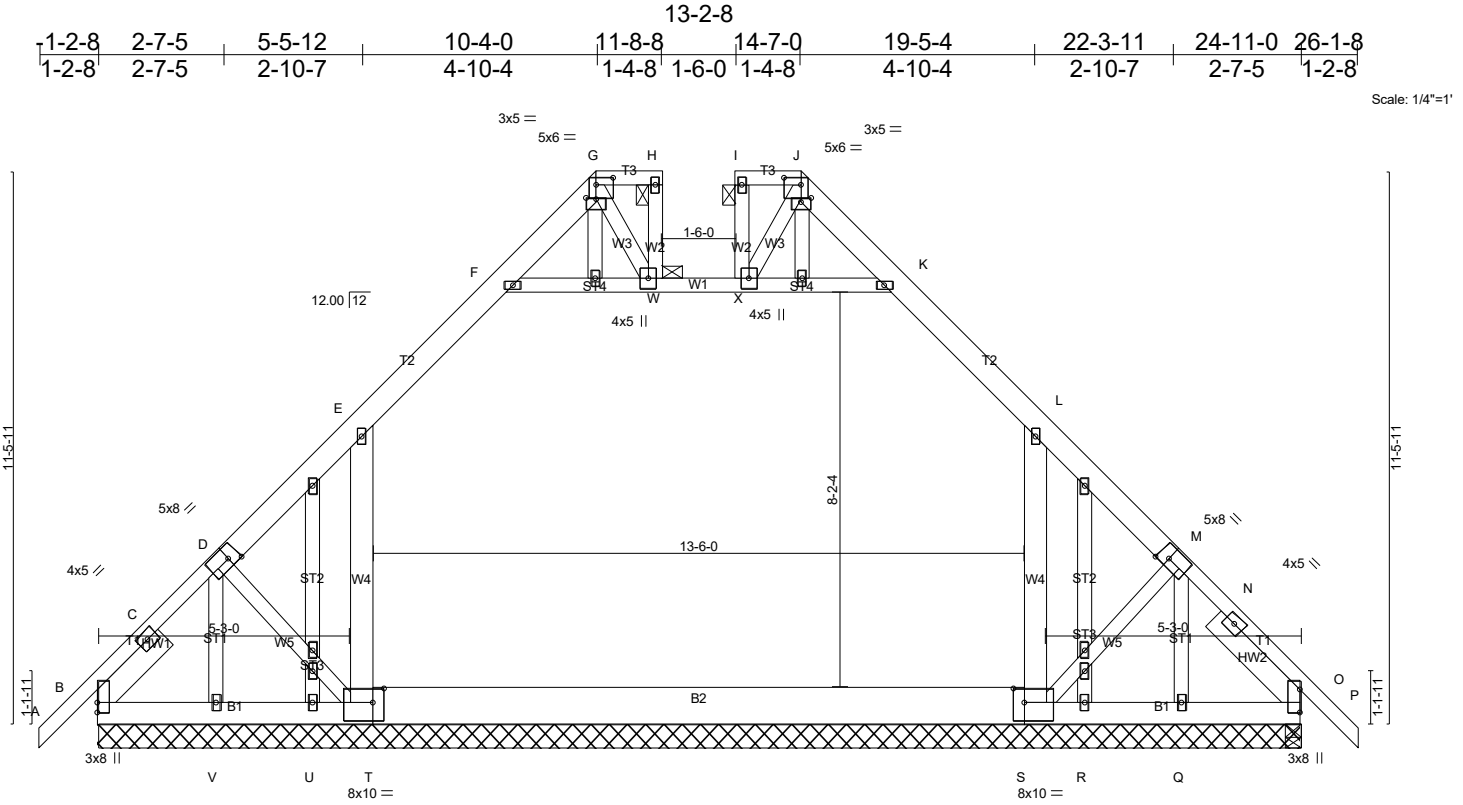


Plate Offsets (X,Y)-- [D:0-2-12,Edge], [G:0-4-4,0-1-12], [G:0-2-8,0-0-6], [J:0-4-4,0-1-12], [J:0-2-8,0-1-1], [M:0-2-12,Edge], [S:0-2-12,0-3-8], [T:0-2-12,0-3-8]

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	0.28	Vert(LL)	-0.06	S-T	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.09	S-T	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	O	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 252 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* T2: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W4: 2x6 SP No.2, W1: 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -t 1-11-9, Right 2x6 SP No.2 -t 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): G-H, I-J.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): H, W, I

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-11-0.
(lb) - Max Horz B=-202(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, O except U=-694(LC 16), R=-697(LC 16)
Max Grav All reactions 250 lb or less at joint(s) V, Q except B=666(LC 1), T=1122(LC 18), S=1110(LC 19), O=657(LC 1), O=657(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-660/46, C-D=-598/62, D-E=-525/85, E-F=-506/158, K-L=-506/158, L-M=-527/85, M-N=-584/61, N-O=-664/45
BOT CHORD B-V=-44/405, U-V=-44/405, T-U=-37/440, S-T=-9/367, R-S=0/398, Q-R=-5/369, O-Q=-5/369
WEBS F-W=-365/234, W-X=-351/230, K-X=-365/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 1-9-8, Exterior(2) 1-9-8 to 10-4-0, Corner(3) 10-4-0 to 11-6-12, Exterior(2) 13-4-4 to 14-7-0, Corner(3) 14-7-0 to 17-7-0, Exterior(2) 17-7-0 to 26-1-8 zone; cantilever left and right exposed ; 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) 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 20.0psf 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.

Continued on page 2

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) U=694.
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and O. This connection is for uplift only and does not consider lateral forces.
11) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) R. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

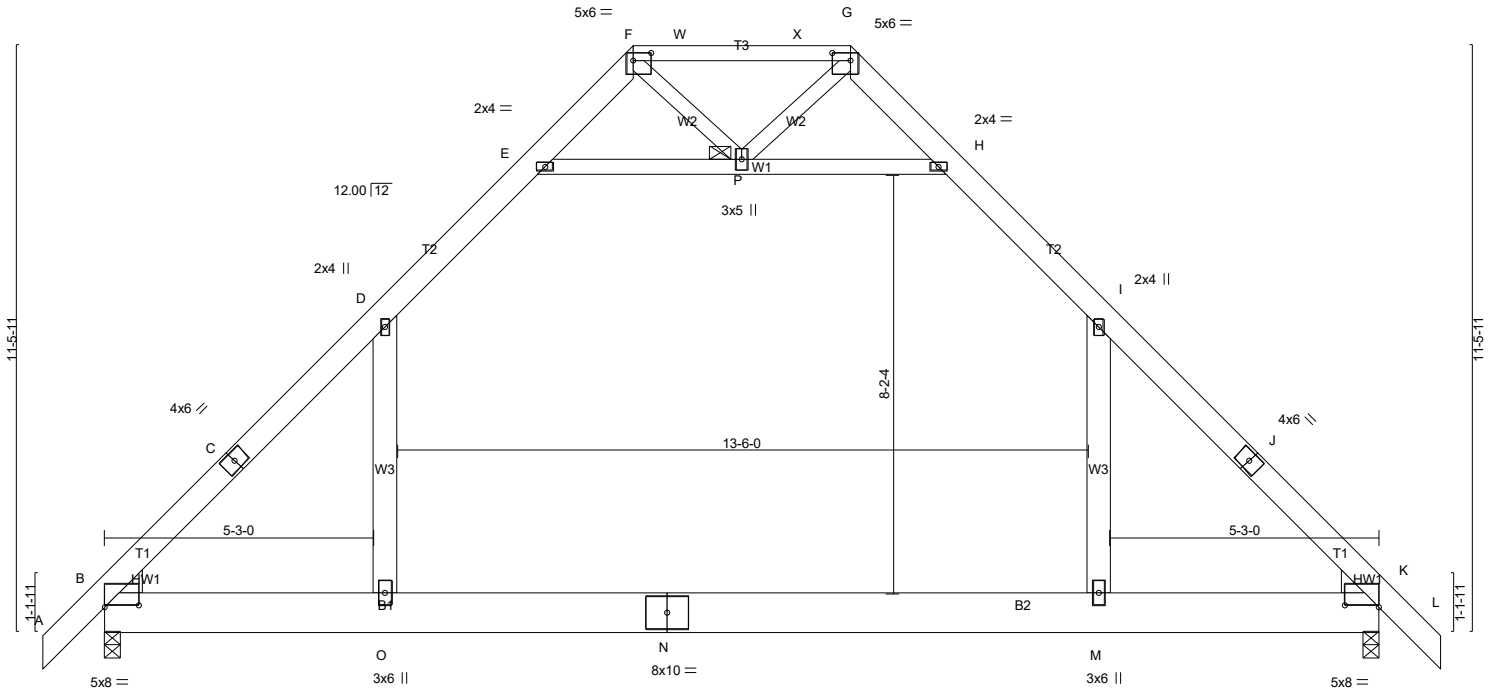
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	ATGR	PIGGYBACK ATTIC	2	2	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:58 2021 Page 1
ID:3iyllN8IonmQ4lOsWlD0kjzXSMr-7rwmAJA9TP2Z2yxv4Ol1Lzy21blzgeiHWV3PPmzT9?B

-1-2-8	2-7-5	5-5-12	10-4-0	14-7-0	19-5-4	22-3-11	24-11-0	26-1-8
1-2-8	2-7-5	2-10-7	4-10-4	4-3-0	4-10-4	2-10-7	2-7-5	1-2-8

Scale = 1:45.1



2-7-5	5-5-12	19-5-4	22-3-11	24-11-0
2-7-5	2-10-7	13-11-8	2-10-7	2-7-5

Plate Offsets (X,Y)-- [B:0-8-0,0-0-7], [F:0-4-4,0-1-12], [G:0-4-4,0-1-12], [K:0-8-0,0-0-7]

LOADING (psf)		**SPACING-**	3-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.27	M-O	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.43	M-O	>694	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.02	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Attic	-0.15	M-O	1097	360	Weight: 461 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E *Except*
T3: 2x4 SP No.2, T1: 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.2 *Except*
W1: 2x4 SP No.2, W2: 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): F, G, P

REACTIONS. (lb/size) B=1937/0-3-8 (min. 0-1-8), K=1937/0-3-8 (min. 0-1-8)
Max Horz B=309(LC 7)
Max Grav B=2397(LC 14), K=2397(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2991/0, C-D=-2742/0, D-E=-1685/0, E-F=-239/385, G-H=-239/385, H-I=-1684/0, I-J=-2742/0, J-K=-2990/0, F-W=0/652, W-X=0/652, G-X=0/652
BOT CHORD B-O=0/1823, N-O=0/1823, M-N=0/1823, K-M=0/1823
WEBS D-O=0/1496, I-M=0/1496, E-P=-2277/0, H-P=-2276/0

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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). D-E, H-I, E-P, H-P; Wall dead load (7.0psf) on member(s).D-O, I-M
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. M-O

Continued on page 2

NOTES-

10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	ATGA	Monopitch Supported Gable	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:59 2021 Page 1
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-1-2-8 3-11-8
1-2-8 3-11-8

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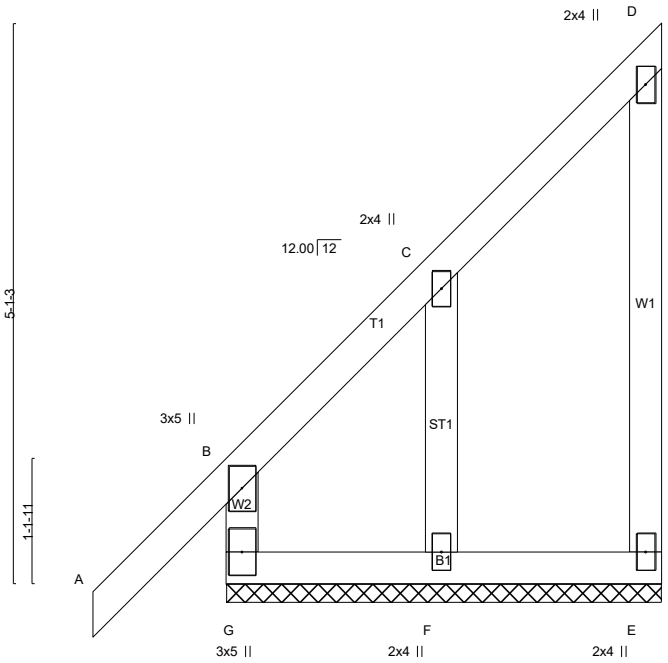

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	A	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) G=175/3-11-8 (min. 0-1-8), E=66/3-11-8 (min. 0-1-8), F=134/3-11-8 (min. 0-1-8)
Max Horz G=140(LC 9)
Max Uplift G=-22(LC 8), E=-24(LC 9), F=-82(LC 9)
Max Grav G=214(LC 18), E=75(LC 17), F=180(LC 17)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 1-11-8, Exterior(2) 1-11-8 to 3-9-12 zone; cantilever left and right exposed ; 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, E, and F. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	CP	Piggyback	11	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:26:59 2021 Page 1
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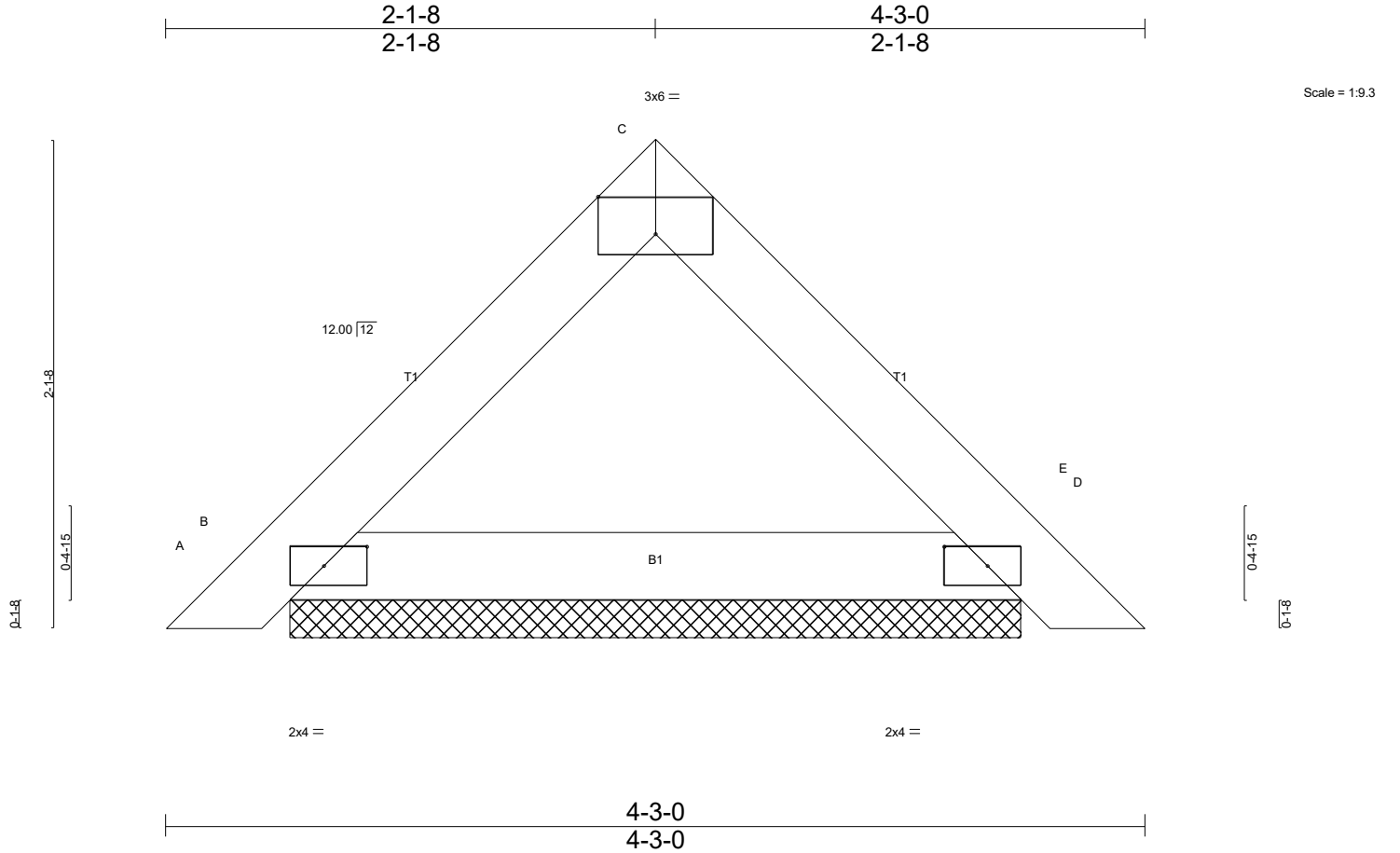

Plate Offsets (X,Y)-- [B:0-2-4,0-1-0], [C:0-3-0,Edge], [D:0-2-4,0-1-0]

LOADING (psf)		SPACING-	1-7-3	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	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	D	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=117/3-2-2 (min. 0-1-8), D=117/3-2-2 (min. 0-1-8)
Max Horz B=-27(LC 10)
Max Uplift B=-4(LC 12), D=-4(LC 12)

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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; 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 20.0psf 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	CPG	Piggyback	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:00 2021 Page 1
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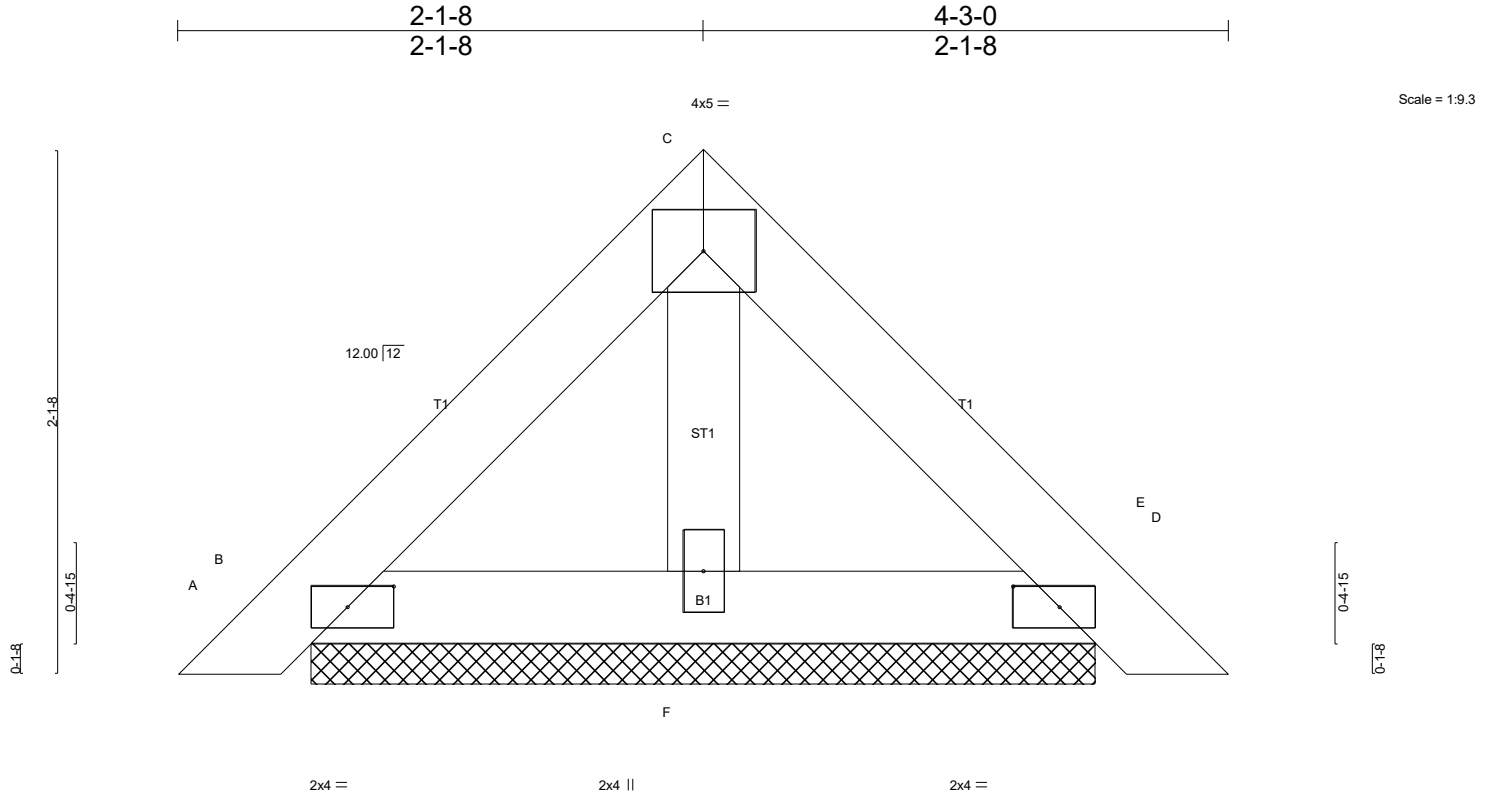

Plate Offsets (X,Y)-- [B:0-2-4,0-1-0], [D:0-2-4,0-1-0]

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	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	D	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=98/3-2-2 (min. 0-1-8), D=98/3-2-2 (min. 0-1-8), F=98/3-2-2 (min. 0-1-8)
Max Horz B=-34(LC 10)
Max Uplift B=-17(LC 12), D=-17(LC 12)
Max Grav B=98(LC 1), D=98(LC 1), F=99(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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; 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 20.0psf 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	CPGR	PIGGYBACK	2	2	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:01 2021 Page 1
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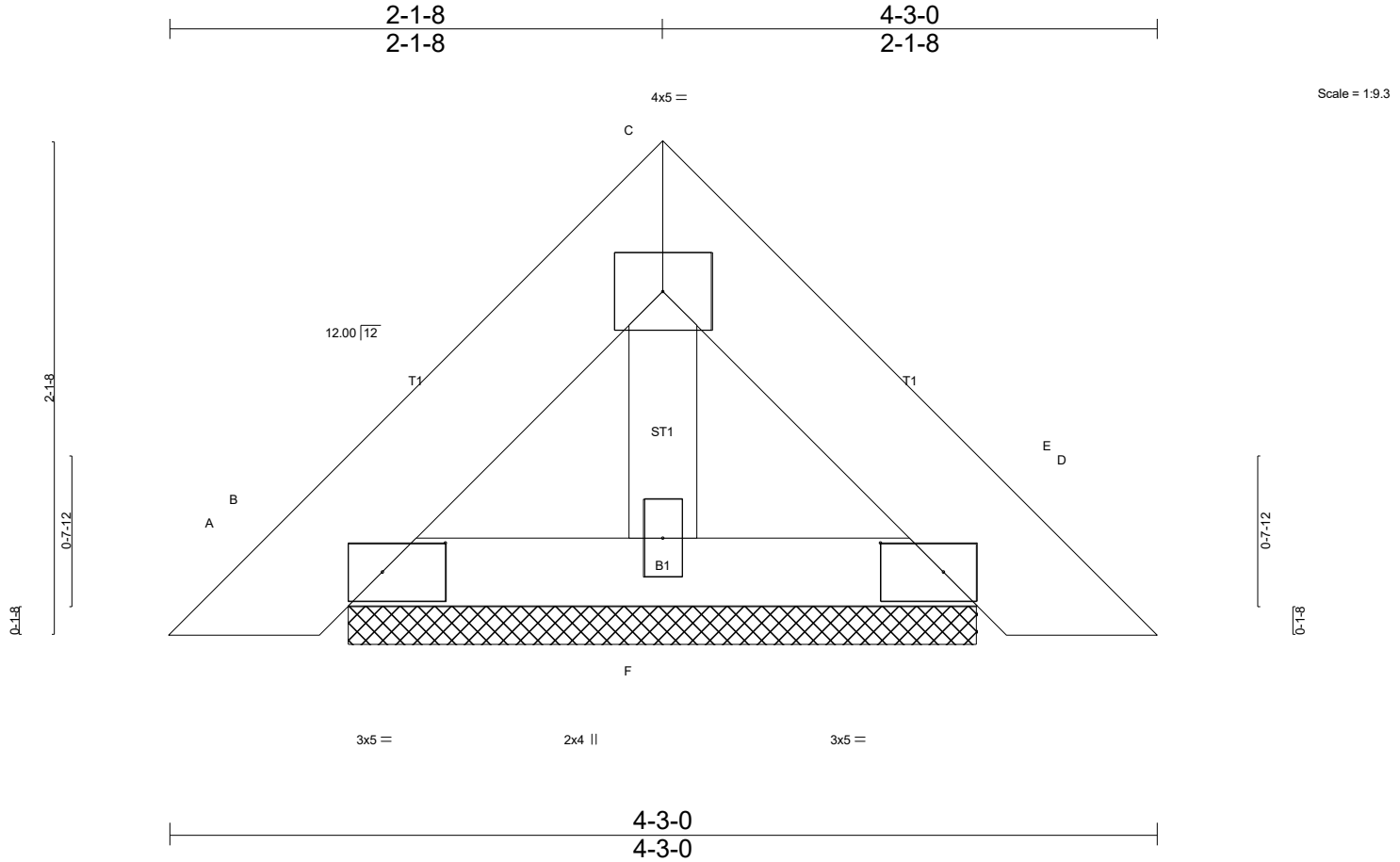

Plate Offsets (X,Y)-- [B:0-3-4,0-1-8], [D:0-3-4,0-1-8]

LOADING (psf)		SPACING-	3-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	0.00	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	D	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=149/2-8-7 (min. 0-1-8), D=149/2-8-7 (min. 0-1-8), F=108/2-8-7 (min. 0-1-8)
Max Horz B=-47(LC 10)
Max Uplift B=-30(LC 12), D=-30(LC 12)
Max Grav B=149(LC 1), D=149(LC 1), F=120(LC 3)

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

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: 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; 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
5) Gable requires continuous bottom chord bearing.
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and D. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M	Monopitch	24	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:02 2021 Page 1
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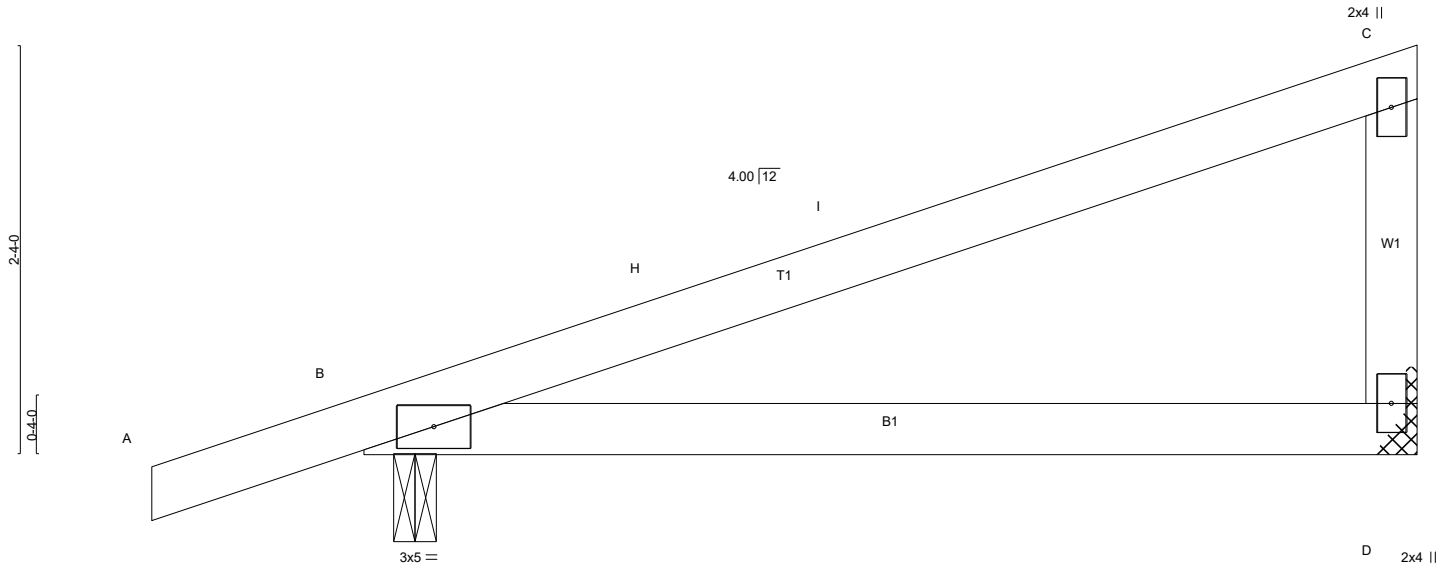

0-2-0 6-0-0
0-2-0 5-10-0

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	0.50	Vert(LL)	-0.05	D-G	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	D-G	>599	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) D=227/Mechanical, B=314/0-3-0 (min. 0-1-8)
Max Horz B=59(LC 11)
Max UpliftB=-24(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 5-10-4 zone; cantilever left and right exposed ; 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
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 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1	Jack-Open	2	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:03 2021 Page 1
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-1-2-8 / 1-2-8 | 4-4-8 / 4-4-8

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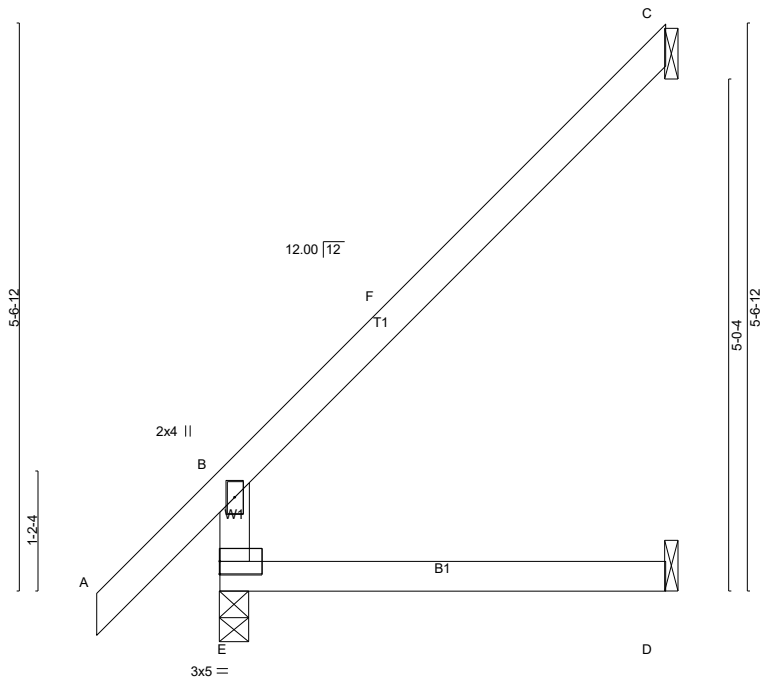

4-4-8 / 4-4-8

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	0.40	Vert(LL)	0.03	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	D-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) E=261/0-3-8 (min. 0-1-8), C=107/Mechanical, D=46/Mechanical
Max Horz E=158(LC 12)
Max Uplift C=-68(LC 12)
Max Grav E=261(LC 1), C=121(LC 17), D=79(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 4-3-12 zone; cantilever left and right exposed ; 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
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1A	Jack-Open	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:04 2021 Page 1
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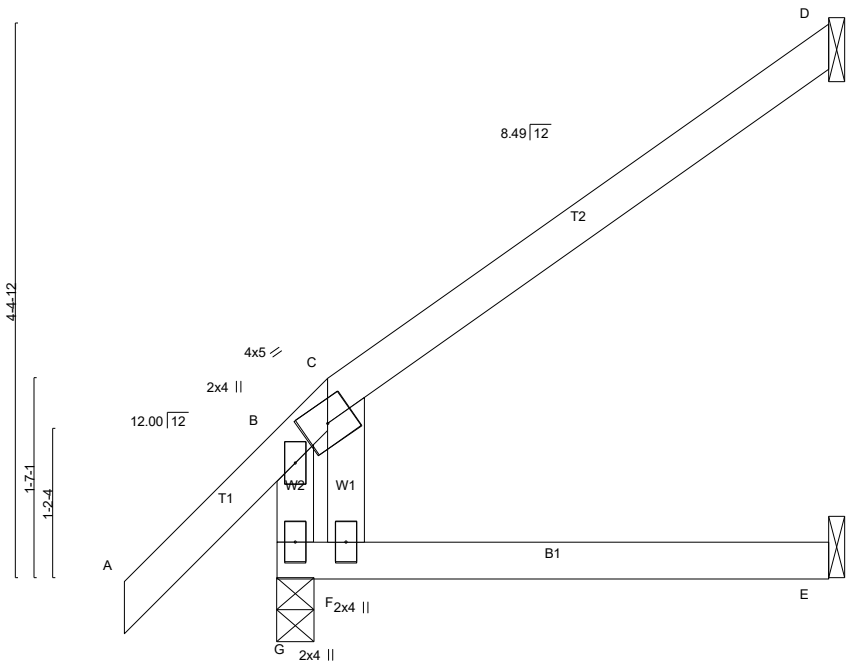

0-4-13 4-4-8
0-4-13 3-11-11

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)	0.02	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.04	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) G=251/0-3-8 (min. 0-1-8), D=105/Mechanical, E=48/Mechanical
Max Horz G=131(LC 12)
Max UpliftD=-43(LC 12)
Max Grav G=251(LC 1), D=107(LC 17), E=77(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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 4-3-12 zone; cantilever left and right exposed ; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1C	Jack-Open	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:04 2021 Page 1
ID:3iyllN8IonmQ4lOsWlD0kjzXSMr-y?H2RMEw2FpimtO3ResRbEC9w0qa4NhAvRWjcQzT9?5

-1-2-8 0-5-0 4-4-8
1-2-8 0-5-0 3-11-8

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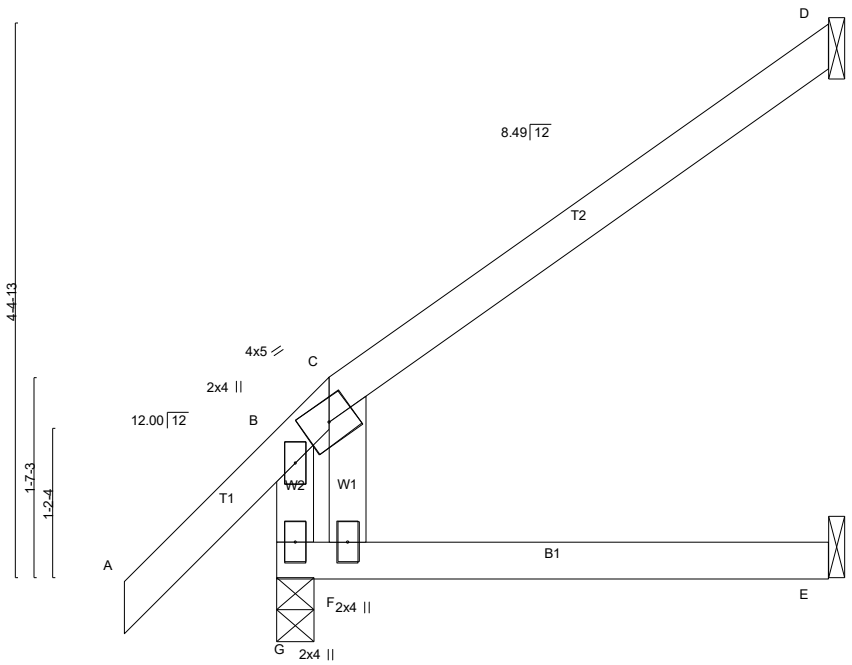

0-5-0 4-4-8
0-5-0 3-11-8

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	0.24	Vert(LL)	0.02	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	E-F	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.04	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) G=251/0-3-8 (min. 0-1-8), D=105/Mechanical, E=48/Mechanical
Max Horz G=131(LC 12)
Max UpliftD=-43(LC 12)
Max Grav G=251(LC 1), D=107(LC 17), E=77(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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 4-3-12 zone; cantilever left and right exposed ; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1D	Jack-Open	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:05 2021 Page 1
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-1-8-8 / 1-8-8 | 2-6-8 / 2-6-8

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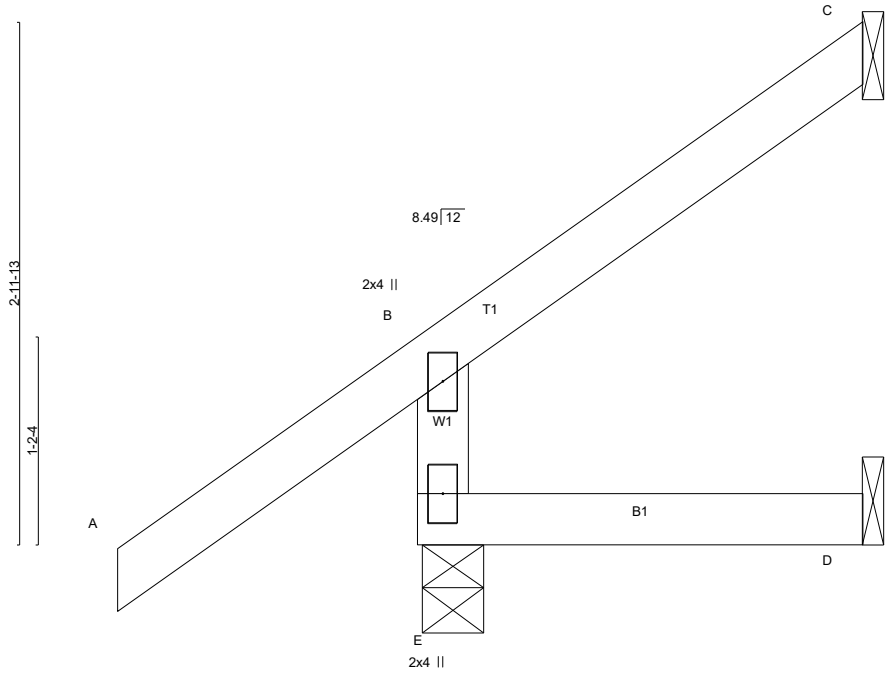

2-6-8 / 2-6-2

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	0.25	Vert(LL)	-0.00	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) E=249/0-4-3 (min. 0-1-8), C=37/Mechanical, D=12/Mechanical
Max Horz E=99(LC 12)
Max Uplift E=-17(LC 12), C=-21(LC 12)
Max Grav E=249(LC 1), C=42(LC 17), D=40(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; 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
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1E	Jack-Open	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

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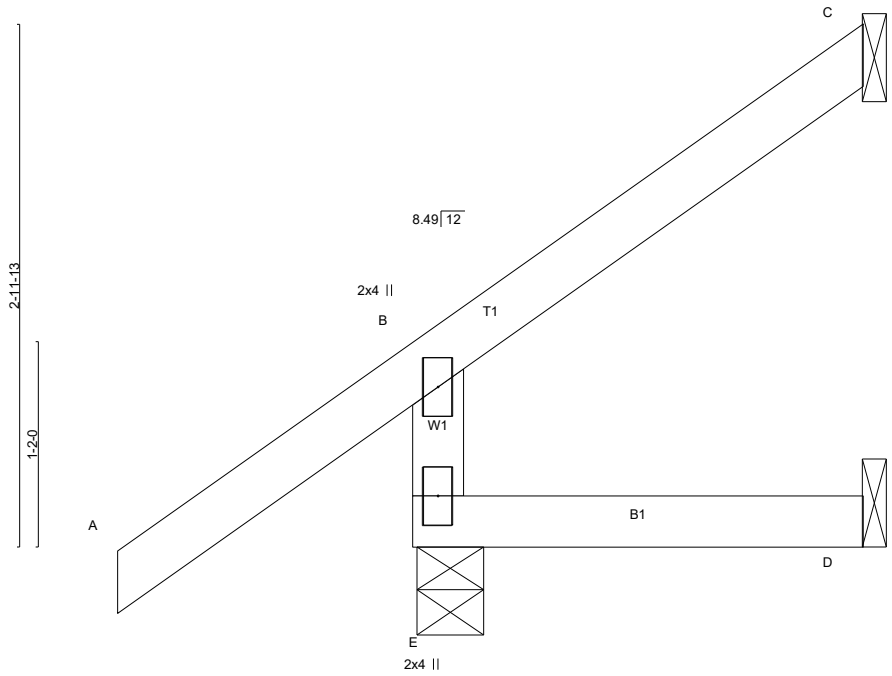

2-6-14 / 2-6-8

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	0.24	Vert(LL)	-0.00	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) E=247/0-4-8 (min. 0-1-8), C=39/Mechanical, D=13/Mechanical
Max Horz E=99(LC 12)
Max Uplift E=-17(LC 12), C=-21(LC 12)
Max Grav E=247(LC 1), C=44(LC 17), D=41(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; 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
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	M1F	Jack-Open	3	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

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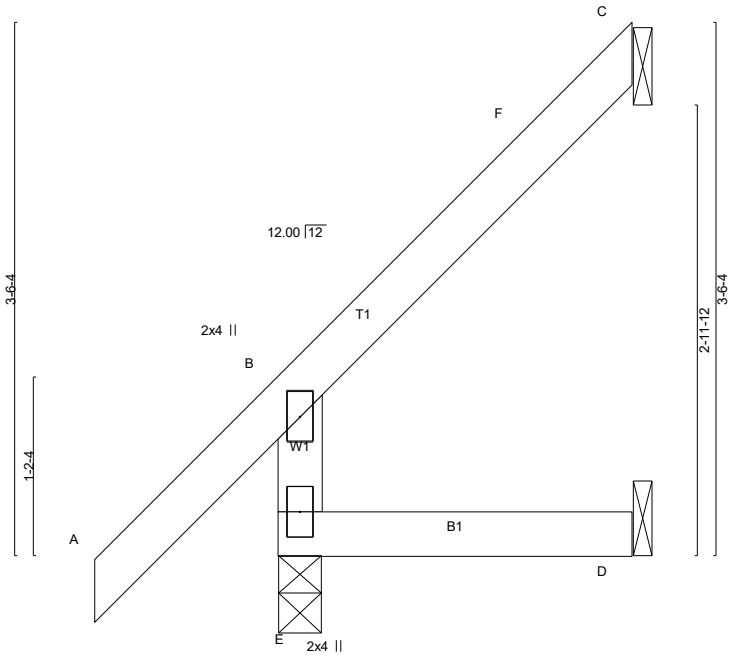

2-4-0 / 2-4-0

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	0.20	Vert(LL)	-0.00	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	D-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) E=192/0-3-8 (min. 0-1-8), C=43/Mechanical, D=16/Mechanical
Max Horz E=112(LC 12)
Max Uplift C=-37(LC 12), D=-9(LC 12)
Max Grav E=192(LC 1), C=54(LC 17), D=39(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-9-8, Interior(1) 1-9-8 to 2-3-4 zone; cantilever left and right exposed ; 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
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	MA	Monopitch	2	1	Job Reference (optional)

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6-0-1
6-0-1

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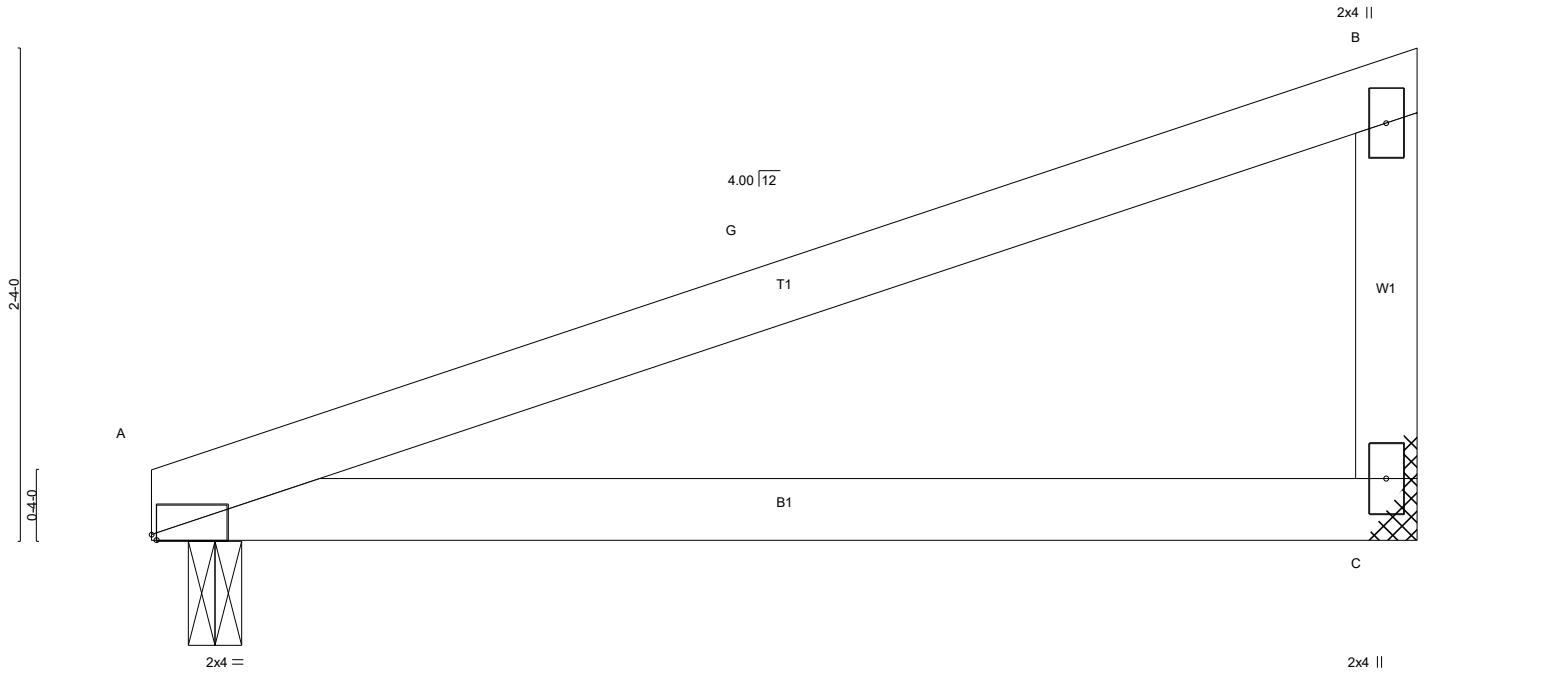

0-2-1 6-0-1
0-2-1 5-10-0

Plate Offsets (X,Y)-- [A:0-0-5,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	0.52	Vert(LL)	-0.06	C-F	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	C-F	>548	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) C=234/Mechanical, A=234/0-3-0 (min. 0-1-8)
Max Horz A=54(LC 11)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-10-5 zone; cantilever left and right exposed ; 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
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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	MB	Roof Special	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:07 2021 Page 1
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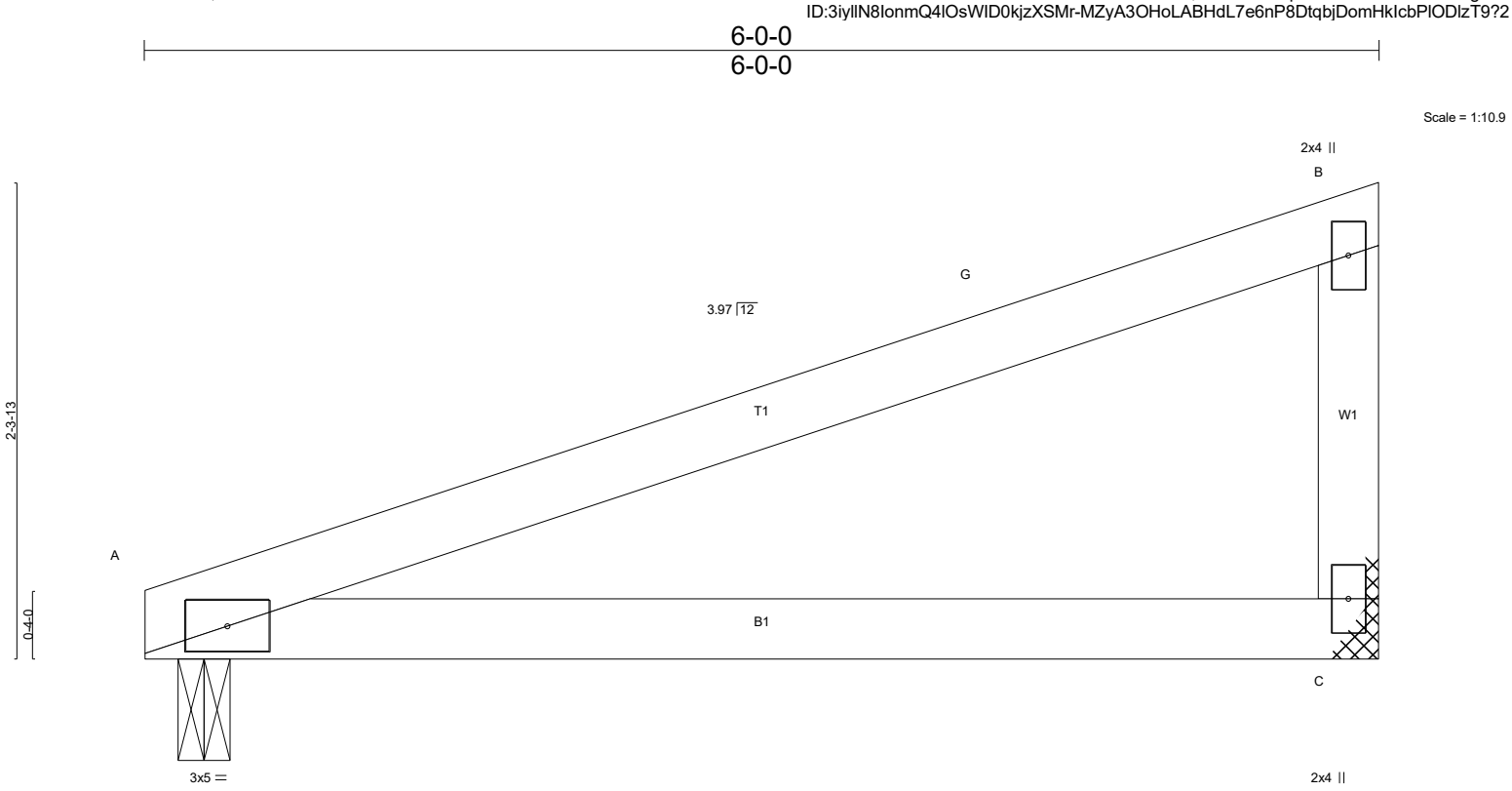

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.07	C-F	>994	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	C-F	>548	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) C=234/Mechanical, A=234/0-3-0 (min. 0-1-8)
Max Horz A=54(LC 11)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2) 4-2-15 to 5-10-4 zone; cantilever left and right exposed ; 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
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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	MC	Roof Special	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:08 2021 Page 1
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4-7-3
4-7-3

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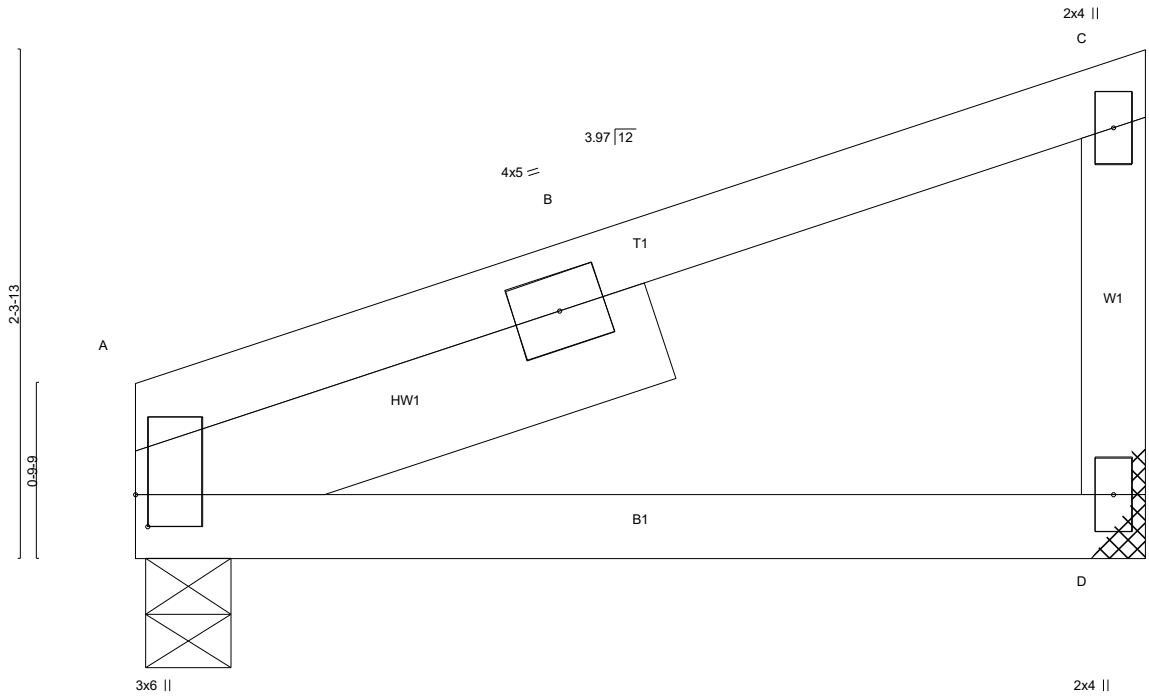

4-7-3
4-6-11

Plate Offsets (X,Y)-- [A:0-1-12,0-0-11]

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)	0.03	D-G	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.21	Vert(CT)	-0.04	D-G	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.00	Horz(CT)	0.01	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -t 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) A=178/0-4-12 (min. 0-1-8), D=178/Mechanical
Max Horz A=50(LC 11)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; 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
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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	MD	Roof Special	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:08 2021 Page 1
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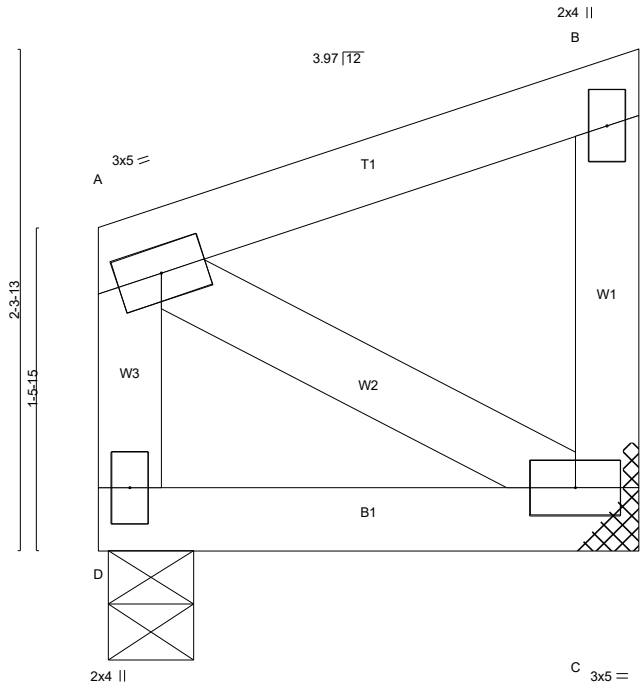
2-5-15
2-5-15

Scale = 1:10.6



2-5-15
2-5-7

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	0.08	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	C-D	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) D=88/0-4-12 (min. 0-1-8), C=88/Mechanical
Max Horz D=51(LC 11)
Max Uplift D=-1(LC 8), C=-14(LC 9)
Max Grav D=88(LC 18), C=88(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; 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
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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	MG	GABLE	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:09 2021 Page 1
ID:3iyllN8IonmQ4lOsWlD0kjzXSMr-Jy4xU4I3tnR?teH0EBScIlwyb1Utkeov2jEUldzT9?0

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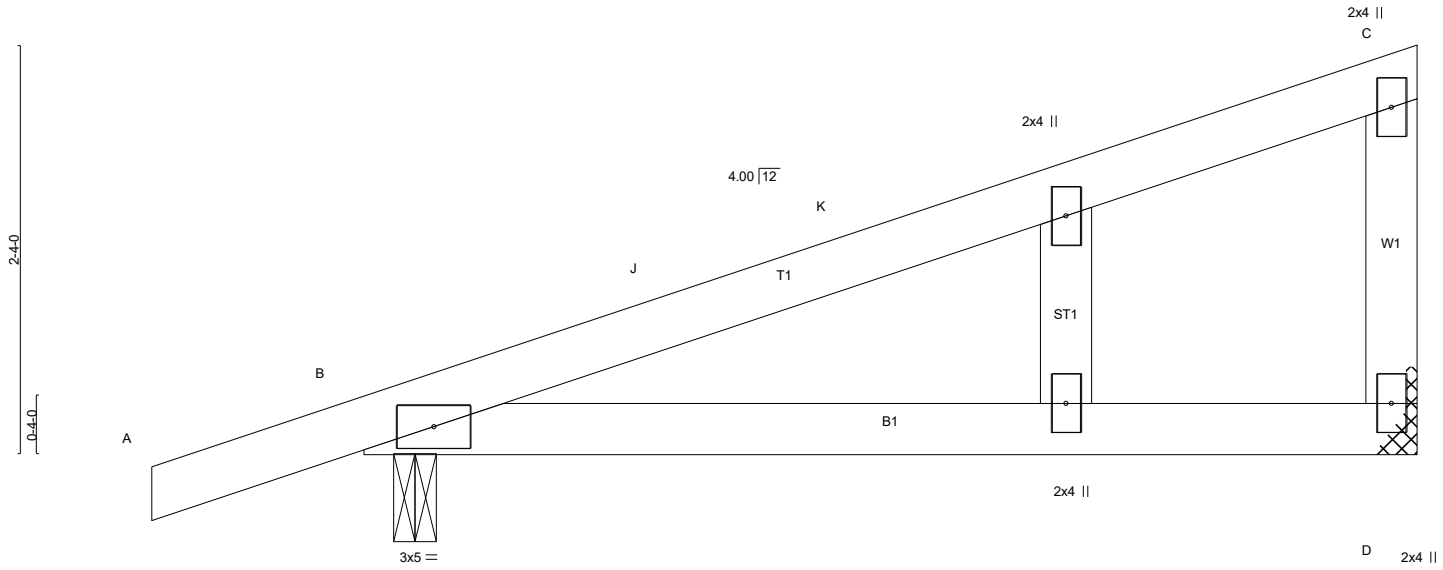


0-2-0 6-0-0
0-2-0 5-10-0

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	0.50	Vert(LL)	0.06	D-I	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	D-I	>599	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) D=227/Mechanical, B=314/0-3-0 (min. 0-1-8)
Max Horz B=59(LC 11)
Max UpliftB=-24(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 1-9-8, Exterior(2) 1-9-8 to 5-10-4 zone; cantilever left and right exposed ; 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf 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) Refer to girder(s) for truss to truss connections.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

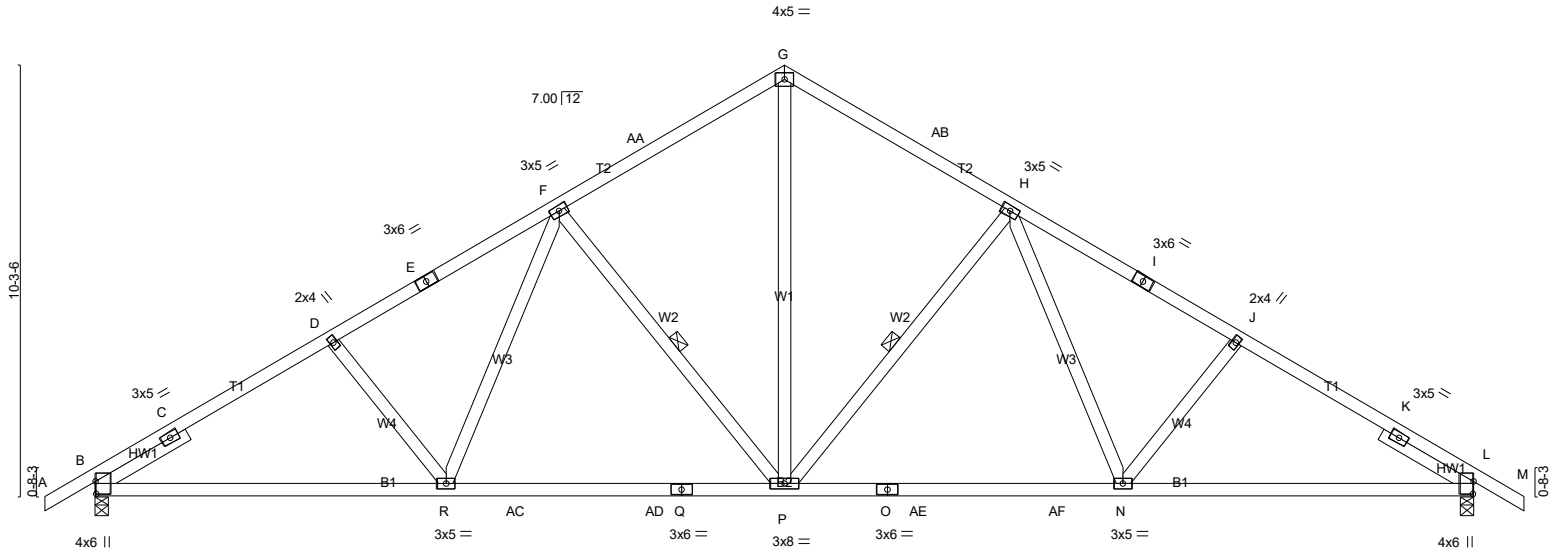
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1	Common	9	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:10 2021 Page 1
ID:3iyllN8IonmQ4IOsWID0kjzXSMr-n8eJhPJhe5ZsUosDnvzrrVS7_RkLT?L2HNz2q4zT9??

-1-2-8	5-8-3	11-0-13	16-5-8	21-10-3	27-2-13	32-11-0	34-1-8
1-2-8	5-8-3	5-4-11	5-4-11	5-4-11	5-4-11	5-8-3	1-2-8

Scale = 1:55.0



8-4-8	16-5-8	24-6-8	32-11-0
8-4-8	8-1-0	8-1-0	8-4-8

Plate Offsets (X,Y)-- [B:0-3-10,0-0-3], [L:0-3-10,0-0-3]

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 0.45	Vert(LL) -0.18 N-P >999 240	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.33 N-P >999 180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.08 L n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt H-P, F-P

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1389/0-3-8 (min. 0-1-10), L=1389/0-3-8 (min. 0-1-10)
Max Horz B=-161(LC 10)
Max UpliftB=-3(LC 12), L=-3(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-820/0, C-D=-2006/54, D-E=-1869/57, E-F=-1799/76, F-AA=-1367/94, G-AA=-1279/121, G-AB=-1279/121, H-AB=-1367/94, H-I=-1799/76, I-J=-1869/57, J-K=-2006/54, K-L=-820/0
BOT CHORD B-R=0/1765, R-AC=0/1502, AC-AD=0/1502, Q-AD=0/1502, P-Q=0/1502, O-P=0/1429, O-AE=0/1429, AE-AF=0/1429, N-AF=0/1429, L-N=0/1679
WEBS G-P=-36/1045, H-P=-556/89, H-N=0/393, F-P=-555/89, F-R=0/393

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 2-1-0, Interior(1) 2-1-0 to 16-5-8, Exterior(2) 16-5-8 to 19-9-0, Interior(1) 19-9-0 to 34-1-8 zone; cantilever left and right exposed ; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and L. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

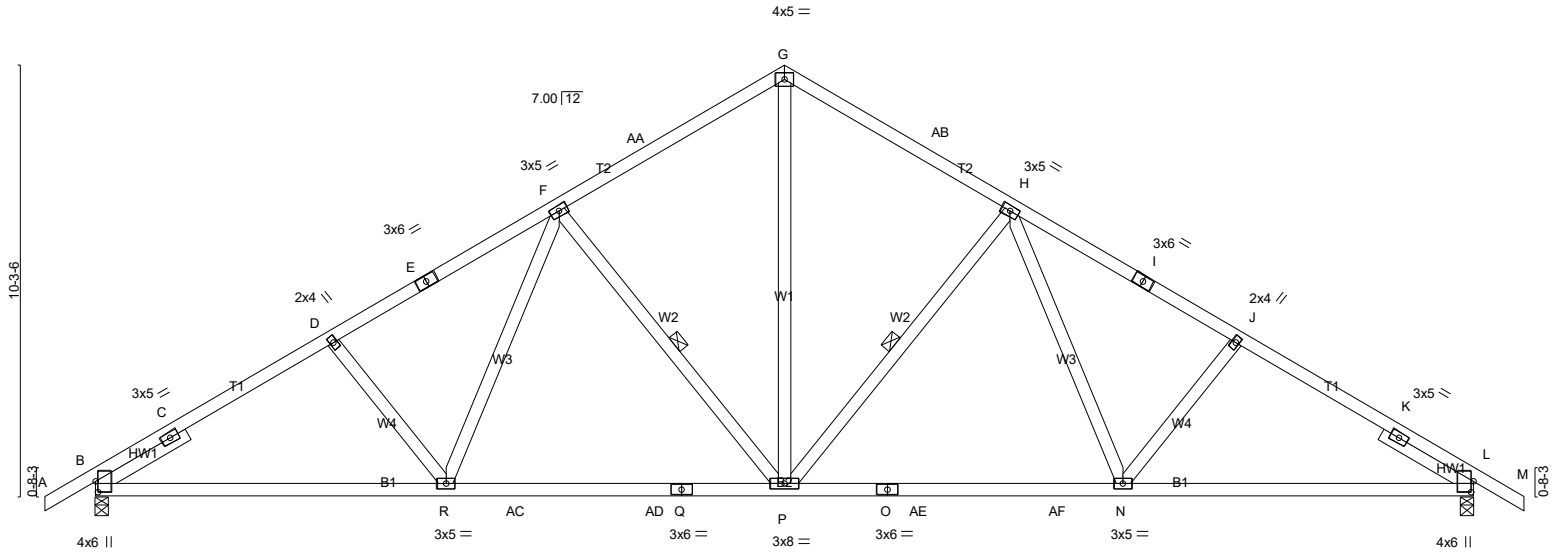
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1A	COMMON	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:11 2021 Page 1
ID:3iyIlN8IonmQ4lOsWID0kjzXSMr-FLChvlKJPOhj6yRPLcU4Nj?G1q16CR0BW1jbMWzT9?

-1-2-8	5-8-3	11-0-13	16-5-8	21-10-3	27-2-13	32-11-0	34-1-8
1-2-8	5-8-3	5-4-11	5-4-11	5-4-11	5-4-11	5-8-3	1-2-8

Scale = 1:55.0



8-4-8	16-5-8	24-6-8	32-11-0
8-4-8	8-1-0	8-1-0	8-4-8

Plate Offsets (X,Y)-- [B:0-3-2,0-0-11], [L:0-3-2,0-0-11]

LOADING (psf)		**SPACING-**	2-2-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.20	N-P	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.35	N-P	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.09	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-6 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt H-P, F-P

REACTIONS. (lb/size) B=1505/0-3-8 (min. 0-1-12), L=1505/0-3-8 (min. 0-1-12)
Max Horz B=-175(LC 10)
Max UpliftB=-3(LC 12), L=-3(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-888/0, C-D=-2173/58, D-E=-2024/62, E-F=-1949/82, F-AA=-1481/102, G-AA=-1386/131, G-AB=-1386/131, H-AB=-1481/102, H-I=-1949/82, I-J=-2024/62, J-K=-2173/58, K-L=-888/0
BOT CHORD B-R=0/1912, R-AC=0/1627, AC-AD=0/1627, Q-AD=0/1627, P-Q=0/1627, O-P=0/1548, O-AE=0/1548, AE-AF=0/1548, N-AF=0/1548, L-N=0/1819
WEBS G-P=-39/1132, H-P=-602/96, H-N=0/426, F-P=-602/96, F-R=0/426

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 2-1-0, Interior(1) 2-1-0 to 16-5-8, Exterior(2) 16-5-8 to 19-9-0, Interior(1) 19-9-0 to 34-1-8 zone; cantilever left and right exposed ; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and L. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

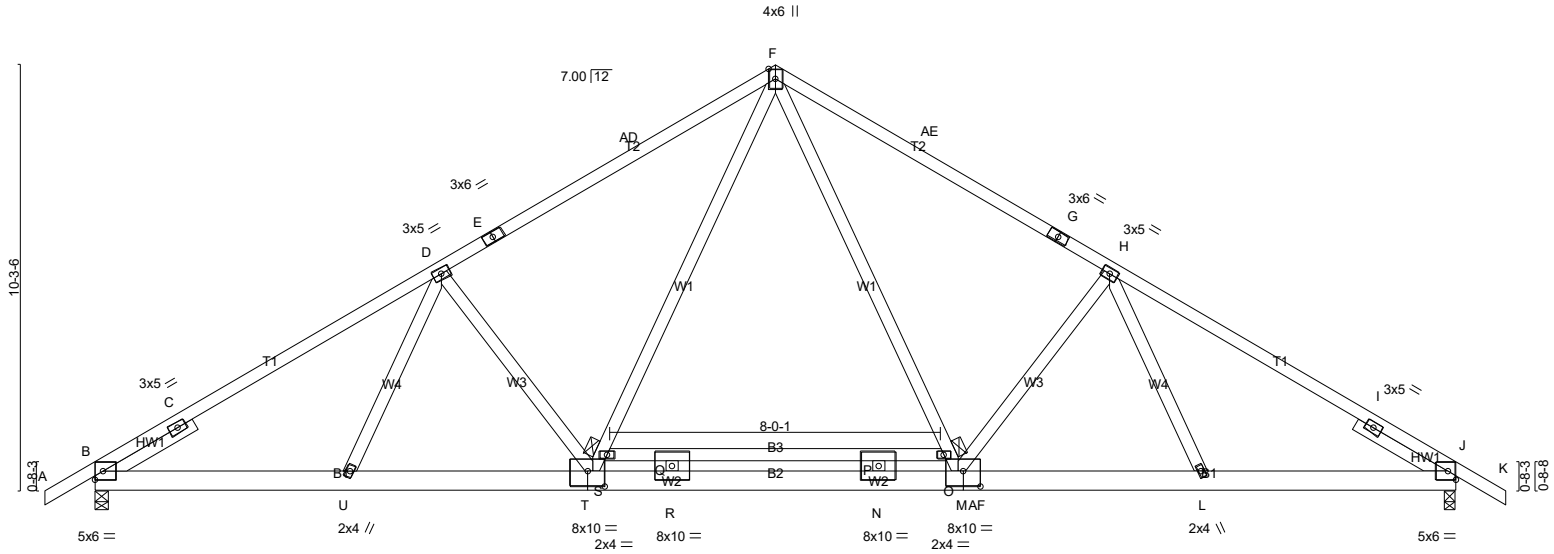
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1B	COMMON	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:12 2021 Page 1
ID:3iyllN8IonmQ4lOsWlD0kjzXSMr-jXm365LxAipak60bvK?JwwYQ?EO5xwoLkhS8tyzT9_z

-1-2-8	8-4-8	16-5-8	24-6-8	32-11-0	34-1-8
1-2-8	8-4-8	8-1-0	8-1-0	8-4-8	1-2-8

Scale = 1:55.7



6-2-0	12-0-8	13-11-8	18-11-8	20-10-8	26-9-0	32-11-0
6-2-0	5-10-8	1-11-0	5-0-0	1-11-0	5-10-8	6-2-0

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

LOADING (psf)		**SPACING-**	2-2-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.17	P-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.36	P-Q	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.05	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 224 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except*
B3: 2x4 SP No.2, B2: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0

BRACING-
TOP CHORD 2-0-0 oc purlins (4-9-10 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=1693/0-3-8 (min. 0-1-8), J=1693/0-3-8 (min. 0-1-8)
Max Horz B=175(LC 11)
Max Grav B=1706(LC 17), J=1706(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1174/0, C-D=-2324/0, D-E=-2347/0, E-AD=-2228/0, F-AD=-2216/0, F-AE=-2216/0, G-AE=-2228/0, G-H=-2347/0, H-I=-2324/0, I-J=-1174/0
BOT CHORD B-U=0/2188, T-U=0/2225, R-T=0/1517, N-R=0/1517, N-AF=0/1517, M-AF=0/1517, L-M=0/2096, J-L=0/2058
WEBS F-O=0/1061, M-O=0/1065, H-M=-471/182, S-T=0/1066, F-S=0/1061, D-T=-471/182

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 2-1-0, Interior(1) 2-1-0 to 16-5-8, Exterior(2) 16-5-8 to 19-9-0, Interior(1) 19-9-0 to 34-1-8 zone; cantilever left and right exposed ; 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) 200.0lb AC unit load placed on the bottom chord, 16-5-8 from left end, supported at two points, 5-0-0 apart.
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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

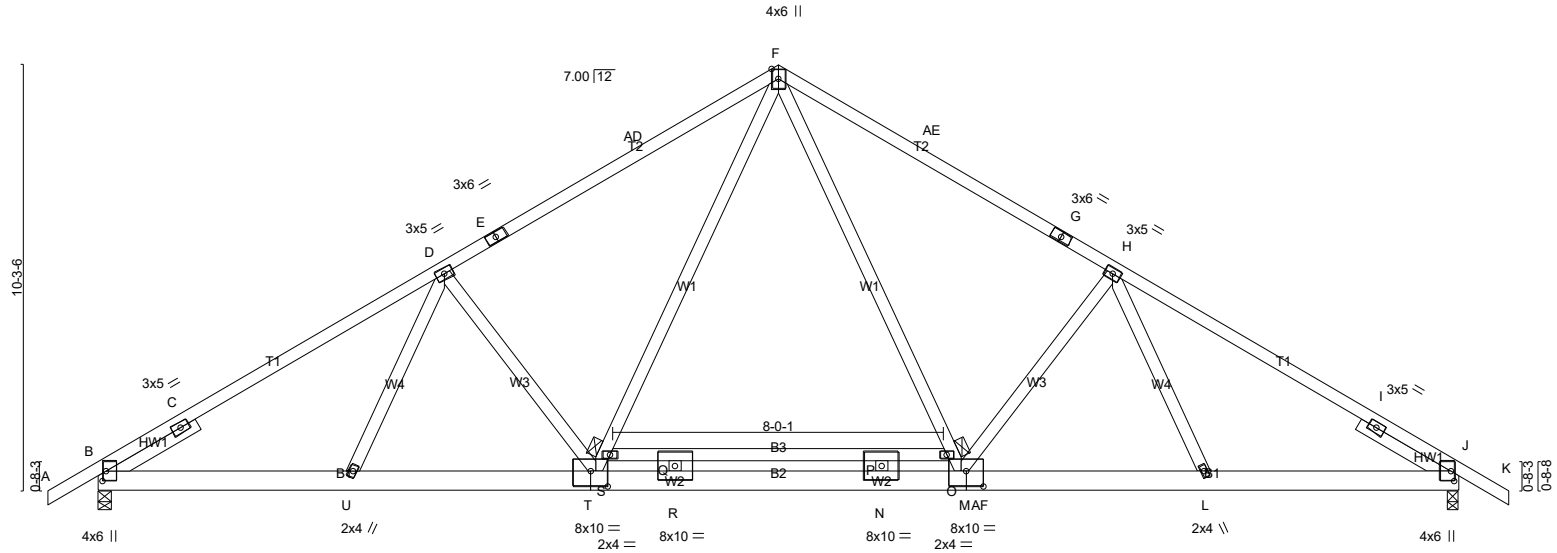
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1C	COMMON	5	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:13 2021 Page 1
ID:3iyIlN8IonmQ4lOsWlD0kjzXSMr-BjKRKRLZx0xRLGbnT1WYS84WpekAgNUUzLCiQOzT9_y

-1-2-8	8-4-8	16-5-8	24-6-8	32-11-0	34-1-8
1-2-8	8-4-8	8-1-0	8-1-0	8-4-8	1-2-8

Scale = 1:55.7



6-2-0	12-0-8	13-11-8	18-11-8	20-10-8	26-9-0	32-11-0
6-2-0	5-10-8	1-11-0	5-0-0	1-11-0	5-10-8	6-2-0

Plate Offsets (X,Y)-- [B:0-2-14,0-1-0], [J:0-2-14,0-1-0], [M:0-5-0,0-4-8], [T:0-5-0,0-4-8]

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	0.99	Vert(LL)	-0.18	P-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.40	P-Q	>986	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 224 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B3: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1571/0-3-8 (min. 0-1-14), J=1571/0-3-8 (min. 0-1-14)
Max Horz B=161(LC 11)
Max Grav B=1582(LC 17), J=1582(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-996/0, C-D=-2242/0, D-E=-2173/0, E-AD=-2064/0, F-AD=-2052/0, F-AE=-2052/0, G-AE=-2064/0, G-H=-2173/0, H-I=-2242/0, I-J=-988/0
BOT CHORD B-U=0/2035, T-U=0/2062, R-T=0/1409, N-R=0/1409, N-AF=0/1409, M-AF=0/1409, L-M=0/1943, J-L=0/1914
WEBS F-O=0/982, M-O=0/977, H-M=-435/167, S-T=0/978, F-S=0/982, D-T=-435/167

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 2-0-10, Interior(1) 2-0-10 to 16-5-8, Exterior(2) 16-5-8 to 19-8-10, Interior(1) 19-8-10 to 34-1-8 zone; cantilever left and right exposed ; 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) 200.0lb AC unit load placed on the bottom chord, 16-5-8 from left end, supported at two points, 5-0-0 apart.
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 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

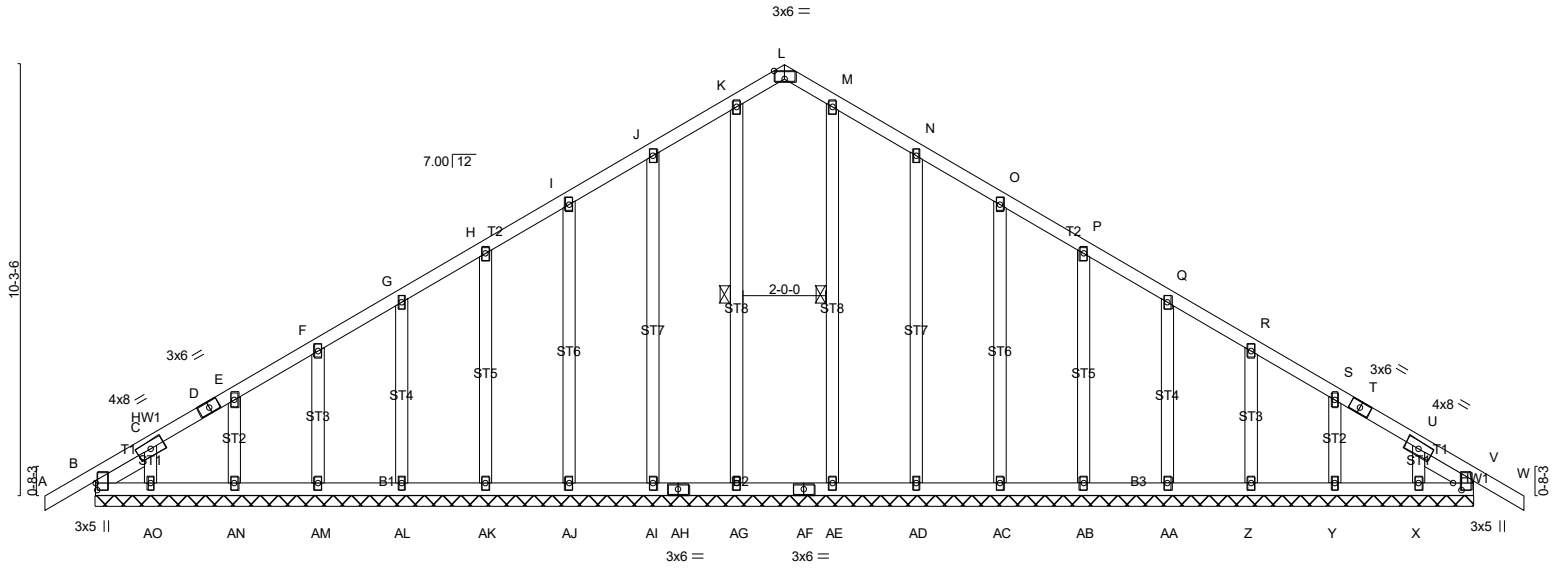
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1G	GABLE	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:14 2021 Page 1
ID:3iyllN8IonmQ4lOsWlD0kjzXSMr-fwtqXnMBiJ3lzP9_0l1n?Ldva2HSPtbeC?xFyrzT9_x

-1-2-8 16-5-8 32-11-0 34-1-8
1-2-8 16-5-8 16-5-8 1-2-8

Scale = 1:55.0



32-11-0
32-11-0

Plate Offsets (X,Y)-- [B:0-2-0,0-0-7], [L:0-3-0,Edge], [V:0-2-0,0-2-7]

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	0.10	Vert(LL)	-0.00	W	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	W	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	V	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 233 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 -t 1-4-8, Right 2x4 SP No.2 -t 1-4-8

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 1 Row at midpt K-AG, M-AE

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 32-11-0.
(lb) - Max Horz B=-161(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, AI, AJ, AK, AL, AM, AN, AO, AD, AC, AB, AA, Z, Y, X
Max Grav All reactions 250 lb or less at joint(s) B, AG, AI, AJ, AK, AL, AM, AN, AO, AE, AD, AC, AB, AA, Z, Y, X, V

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

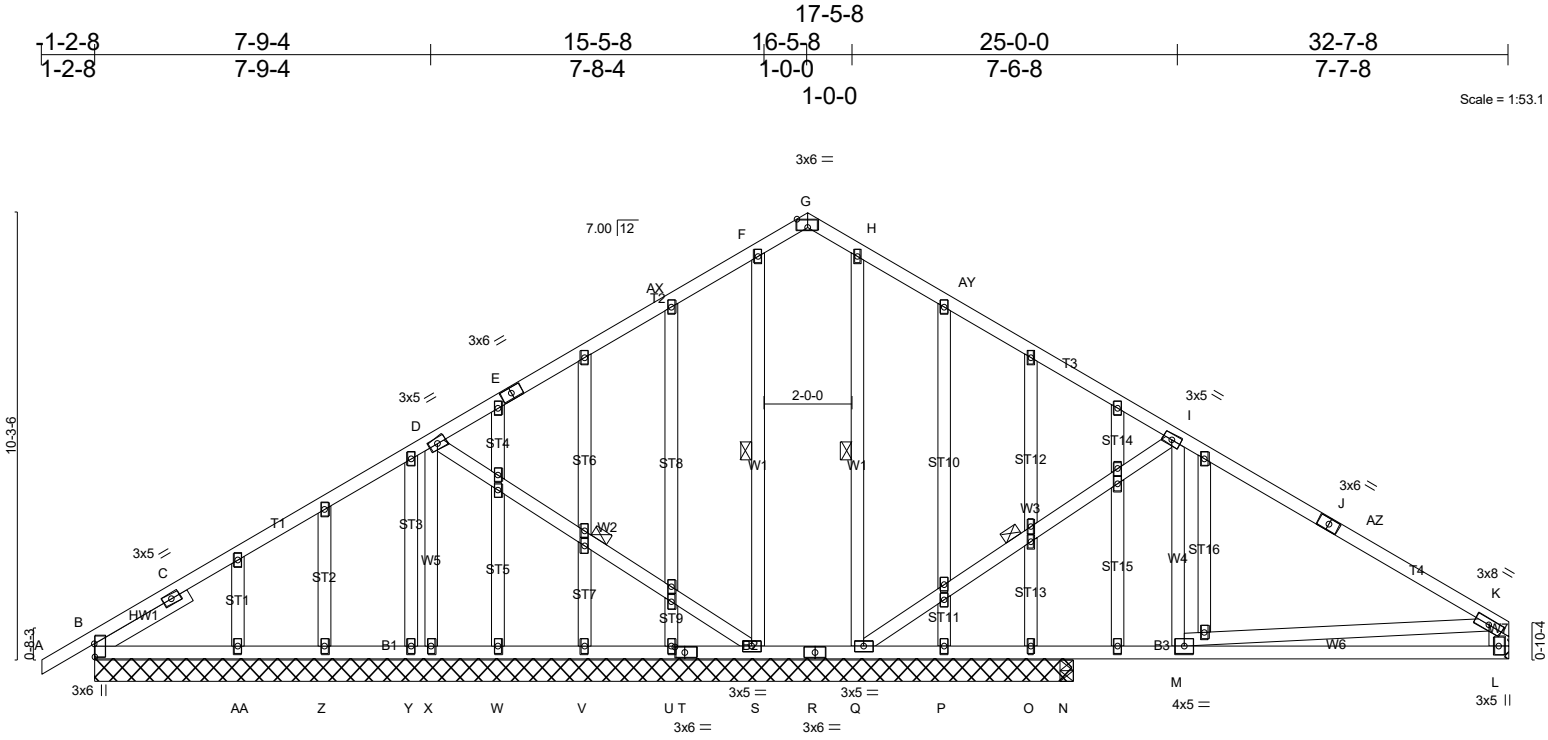
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 2-1-0, Exterior(2) 2-1-0 to 16-5-8, Corner(3) 16-5-8 to 19-7-4, Exterior(2) 19-7-4 to 34-1-8 zone; cantilever left and right exposed ; 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 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 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B, AI, AJ, AK, AL, AM, AN, AO, AD, AC, AB, AA, Z, Y, and X. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1GA	GABLE	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295

Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:15 2021 Page 1
ID:3iyIlN8IonmQ4lOsWID0kjzXSMr-76RCk7NqSdB9bZkAaSY0YZAwmSWb8JJnQfhpUHzT9_w



7-9-4	15-5-8	17-5-8	22-6-10	25-0-0	32-7-8
7-9-4	7-8-4	2-0-0	5-1-2	2-5-6	7-7-8

Plate Offsets (X,Y)-- [B:0-3-10,0-0-3], [G:0-3-0,Edge], [T:0-2-12,0-1-8]

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	0.71	Vert(LL)	-0.08	L-M	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.15	L-M	>777	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 268 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W7: 2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -t 2-6-0

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, Except: 6-0-0 oc bracing: Q-S.
WEBS	1 Row at midpt D-S, F-S, H-Q, I-Q

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-6-10 except (jt=length) L=Mechanical, N=0-3-8.
(lb) - Max Horz B=169(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) B, X, Q, Z, AA, N except S=-171(LC 12)
Max Grav All reactions 250 lb or less at joint(s) X, U, V, W, Y, Z, AA, P, O, N except B=365(LC 21), S=722(LC 17), Q=790(LC 18), L=457(LC 22), B=342(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-137/285, F-AX=-63/356, H-AY=-59/352, I-J=-349/0, J-AZ=-368/0, K-AZ=-467/0, K-L=-386/0
BOT CHORD R-S=-350/234, Q-R=-350/234, P-Q=0/318, O-P=0/318, N-O=0/318, M-N=0/318, L-M=-28/280
WEBS D-S=-512/237, F-S=-417/111, H-Q=-419/98, I-Q=-591/97, I-M=0/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 2-0-10, Interior(1) 2-0-10 to 16-5-8, Exterior(2) 16-5-8 to 19-8-10, Interior(1) 19-8-10 to 32-4-12 zone; cantilever left and right exposed ; 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 20.0psf 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.
8) Refer to girder(s) for truss to truss connections.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B, X, S, Q, Z, and AA. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

NOTES-

10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) N. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1GR	Hip Girder	1	2	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:17 2021 Page 1
ID:3iyllN8IonmQ4lOsWID0kjzXSMr-4VZy9pP4_ESsqtuZitbUd_FM6FFac764uyAvZAzT9_u

0-1-15	3-1-11	6-1-7	8-11-8	11-11-0	15-2-0
0-1-15	2-11-12	2-11-12	2-10-1	2-11-8	3-3-0

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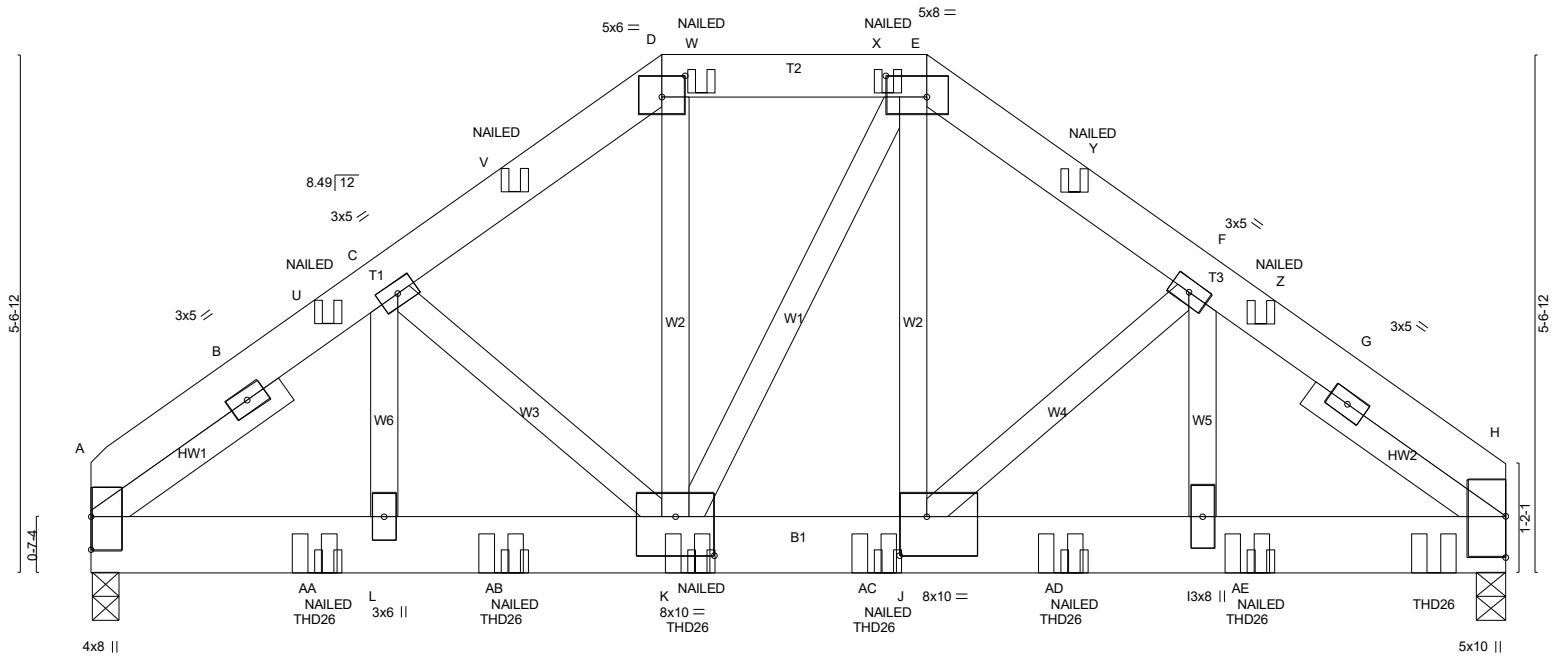


3-1-11	6-1-7	8-11-8	11-11-0	15-2-0
3-1-11	2-11-12	2-10-1	2-11-8	3-3-0

Plate Offsets (X,Y)-- [D:0-3-0,0-2-12], [E:0-5-4,0-2-12], [J:0-3-8,0-5-0], [K:0-5-0,0-5-0]

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	0.27	Vert(LL)	-0.04	I-J	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	I-J	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 273 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0

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

REACTIONS. (lb/size) A=3736/0-3-9 (min. 0-1-9), H=6261/0-3-11 (min. 0-2-9)
Max Horz A=69(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2693/0, B-U=-4615/0, C-U=-4574/0, C-V=-4873/0, D-V=-4798/0, D-W=-4040/0, W-X=-4040/0, E-X=-4040/0, E-Y=-5019/0, F-Y=-5094/0, F-Z=-6236/0, G-Z=-6280/0, G-H=-4069/0
BOT CHORD A-AA=0/3548, L-AA=0/3548, L-AB=0/3548, K-AB=0/3548, K-AC=0/4232, J-AC=0/4232, J-AD=0/4905, I-AD=0/4905, I-AE=0/4905, H-AE=0/4905
WEBS C-L=-350/0, C-K=0/636, D-K=0/2452, E-K=-452/0, E-J=0/2987, F-J=-1046/0, F-I=0/1602

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 0-6-0 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

NOTES-

10) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-12 from the left end to 14-4-12 to connect truss(es) T1GRA (1 ply 2x6 SP), T1GA (1 ply 2x4 SP), T1C (1 ply 2x6 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

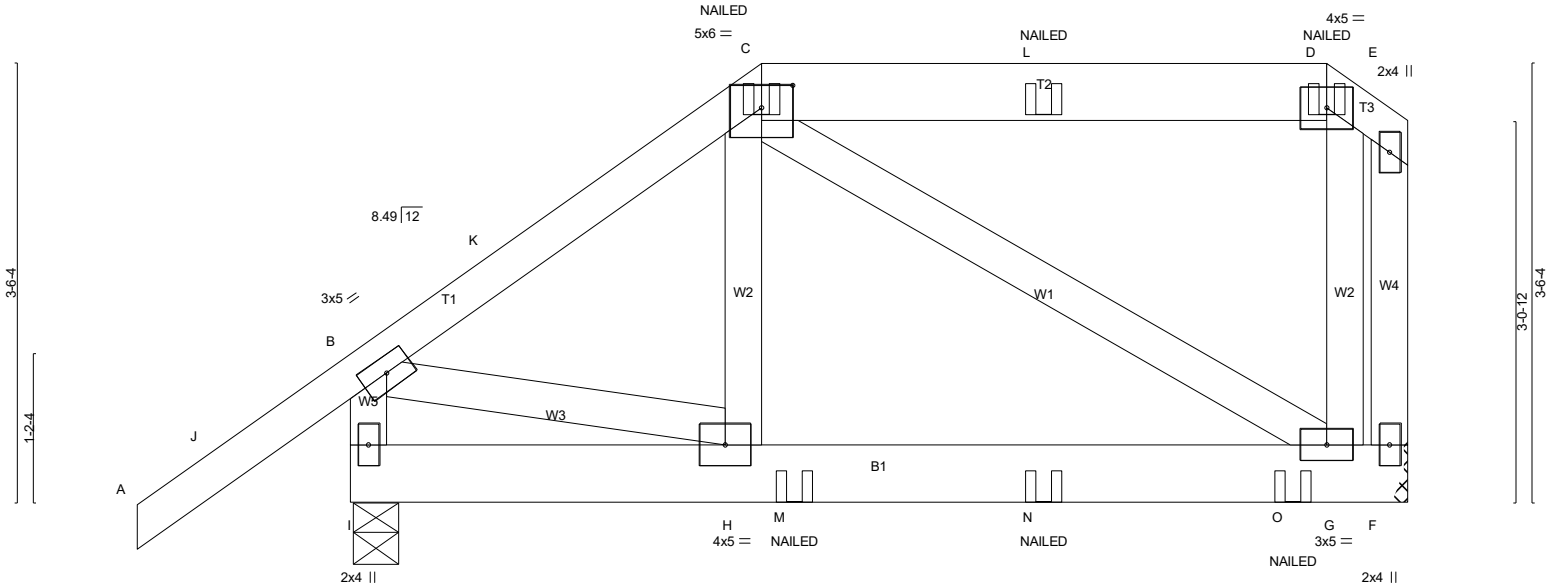
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-D=-60, D-E=-60, E-H=-60, M-Q=-20
   Concentrated Loads (lb)
      Vert: K=-1580(F=-26, B=-1554) S=-1556(B) V=-45(F) W=-47(F) X=-47(F) Y=-45(F) AA=-288(F=4, B=-292) AB=-465(F=-28, B=-437) AC=-1580(F=-26, B=-1554) AD=-1582(F=-28, B=-1554) AE=-1549(F=5, B=-1554)

Job	Truss	Truss Type	Qty	Ply	Americas Home Place - Waldon Res. - RF
ENG	T1GRA	Hip	1	1	Job Reference (optional)

CARTER COMPONENTS, LEXINGTON N.C. 27295 Run: 8.410 s Jul 8 2020 Print: 8.410 s Jul 8 2020 MiTek Industries, Inc. Wed Apr 7 10:27:18 2021 Page 1
ID:3iyllN8IonmQ4lOsWID0kjzXSMr-Yh7KN9PilYajS1TlFa6j9BnYVfdALhsD7cvT5czT9_t

-1-8-8	3-3-10	7-10-0	8-5-13
1-8-8	3-3-10	4-6-7	0-7-13

Scale = 1:18.5



0-0-6	3-3-10	7-10-0	8-5-13
0-0-6	3-3-3	4-6-7	0-7-13

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

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	0.23	Vert(LL)	-0.01	G-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.12	Vert(CT)	-0.02	G-H	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.14	Horz(CT)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS							Weight: 66 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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.): C-D.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) I=450/0-4-3 (min. 0-1-8), F=312/Mechanical
Max Horz I=95(LC 11)
Max Uplift I=-81(LC 12), F=-100(LC 9)
Max Grav I=450(LC 1), F=333(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-K=-316/77, C-K=-266/97, B-I=-433/161
WEBS B-H=-44/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-8-8 to 1-3-8, Interior(1) 1-3-8 to 3-3-10, Exterior(2) 3-3-10 to 8-4-1 zone; cantilever left and right exposed ; 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 20.0psf 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) 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) F.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) I. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) 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

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-B=-60, B-C=-60, C-D=-60, D-E=-60, F-I=-20
   Concentrated Loads (lb)
      Vert: M=2(F) N=2(F) O=1(F)