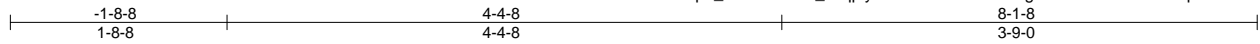


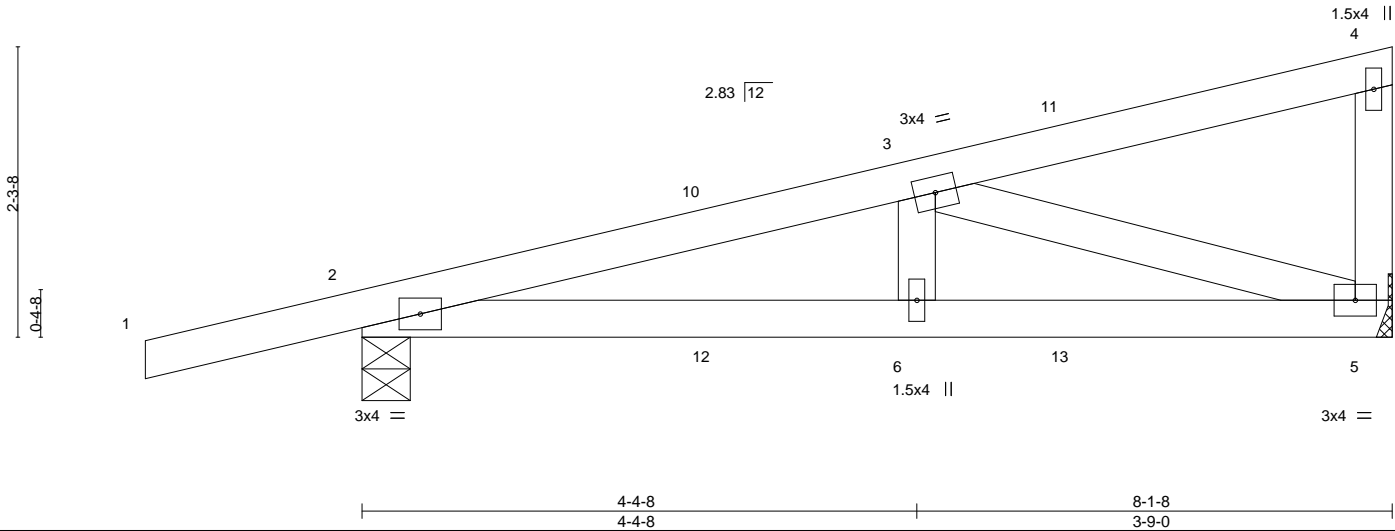
Job B-73554	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Barton	E13627514
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:26 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqplyUu2D-T2QfBwZC6YgzPUHsdXLQLrW1wqU6zK0s9staPkyUkqx



Scale = 1:18.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.01 6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.03 5-6 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%

LUMBER-

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

(lb/size) 2=452/0-4-9, 5=351/Mechanical
Max Horz 2=73(LC 7)
Max Uplift 2=-112(LC 4), 5=-52(LC 8)

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

TOP CHORD 2-3=-732/87
BOT CHORD 2-6=-92/693, 5-6=-92/693
WEBS 3-5=-725/113

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFERS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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) 5 except (jt=lb) 2=112.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 10 lb up at 2-9-8, 11 lb down and 10 lb up at 2-9-8, and 37 lb down and 42 lb up at 5-7-7, and 37 lb down and 42 lb up at 5-7-7 on top chord, and 4 lb down at 2-9-8, 4 lb down at 2-9-8, and 21 lb down at 5-7-7, and 21 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 11=-20(F=-10, B=-10) 12=-3(F=-2, B=-2) 13=-39(F=-19, B=-19)



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

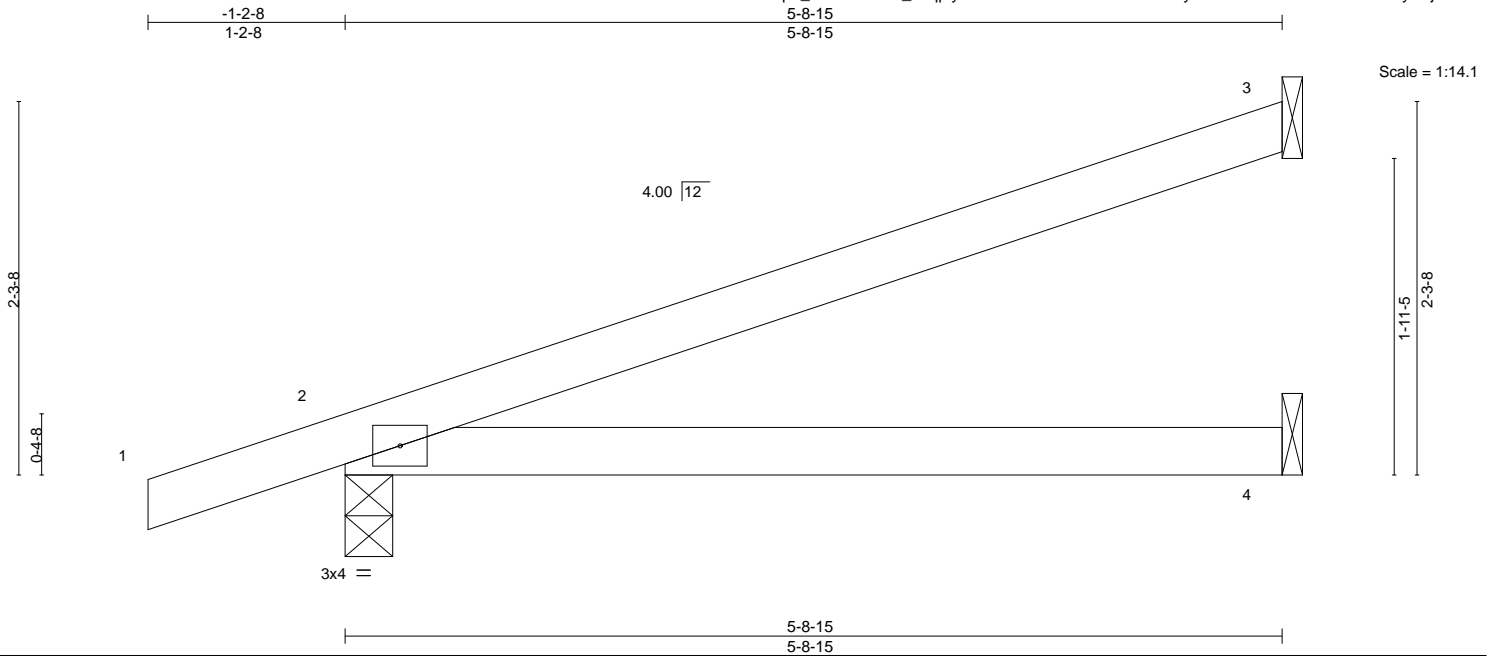


818 Soundside Road
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Job B-73554	Truss J03	Truss Type Jack-Open	Qty 1	Ply 1	Barton	E13627517
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:28 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqplyUu2D-PRYQccaSe9wheoREkyNuRgBjJae9dRGN8cAMhTdyUkqv



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.36	Vert(LL) -0.04 4-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.10 4-7 >666 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a	Weight: 20 lb	FT = 20%
	Code IRC2015/TPI2014				

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

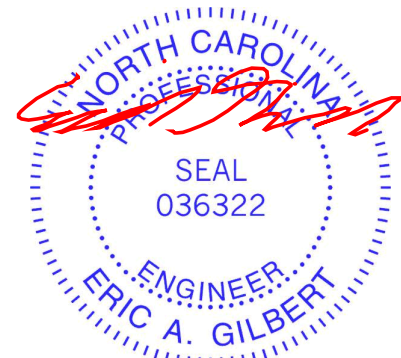
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=147/Mechanical, 2=308/0-3-8, 4=73/Mechanical
Max Horz 2=80(LC 6)
Max Uplift 3=57(LC 10), 2=71(LC 6)
Max Grav 3=147(LC 1), 2=308(LC 1), 4=104(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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.



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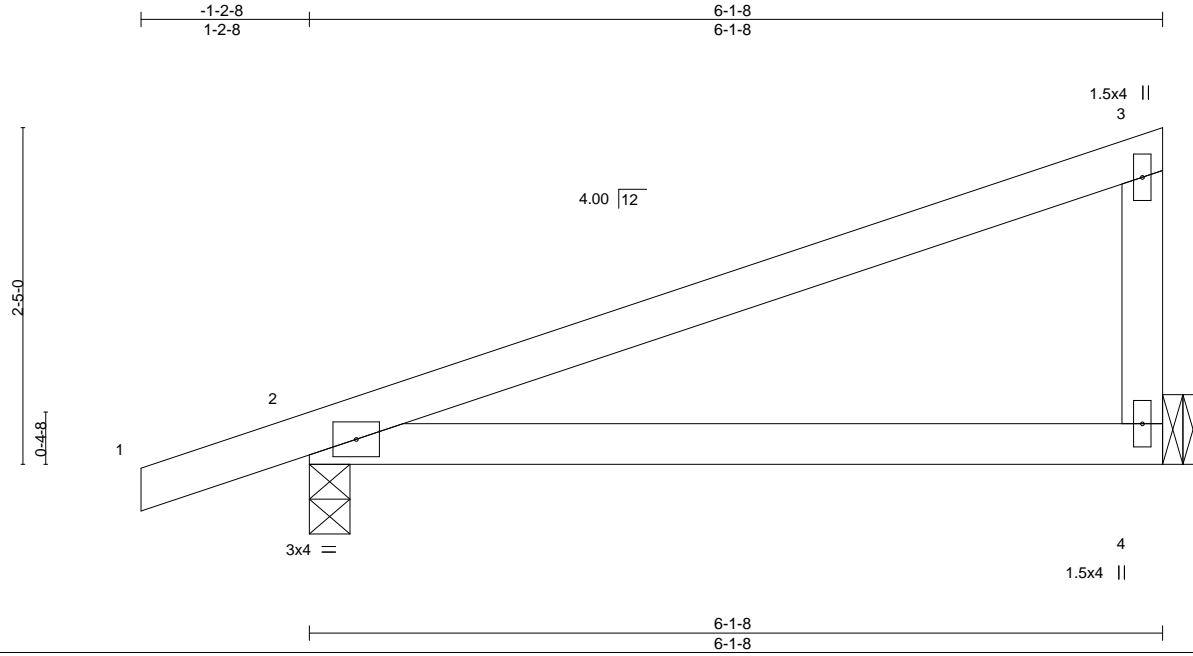


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Job B-73554	Truss J04	Truss Type Jack-Closed	Qty 2	Ply 1	Barton	E13627518
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:28 2019 Page 1
ID:3DOP8_T8JDuctKIX_OlqplyUu2D-PRYQccaSe9wheoREkyNuRGblfe8xRGN8cAMhTdyUkiv



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 0.53	Vert(LL)	-0.05	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.13	4-7	>568		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	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.

REACTIONS. (lb/size) 4=232/Mechanical, 2=319/0-3-8
 Max Horz 2=80(LC 9)
 Max Uplift 4=42(LC 10), 2=-79(LC 6)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - 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) 4, 2.



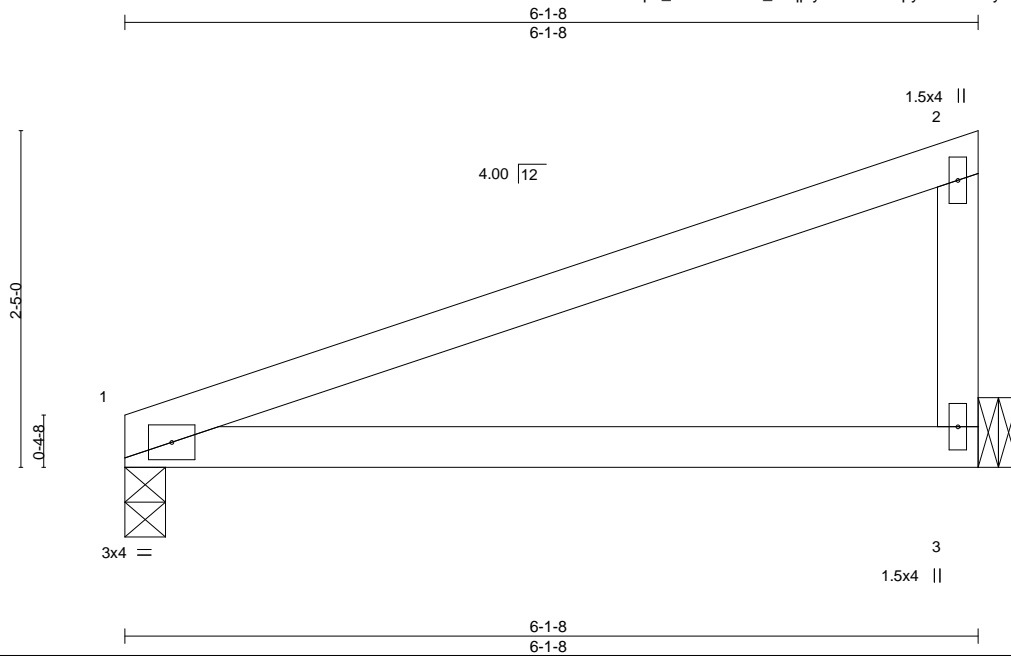
October 11, 2019

Job B-73554	Truss J05	Truss Type Jack-Closed	Qty 1	Ply 1	Barton	E13627519
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Structural Building Components, LLC,

Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:29 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqplyUu2D-td6opyb4PT3YGy0Rlgu7zU8T?1UYAjdlrq6F03yUkju



Scale = 1:16.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.06	3-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(CT)	-0.14	3-6	>521		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

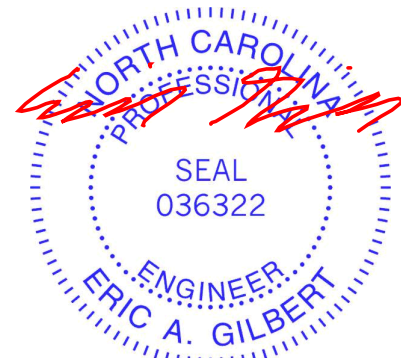
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=239/0-3-8, 3=239/Mechanical
Max Horz 1=73(LC 9)
Max Uplift 1=-33(LC 6), 3=-45(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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) 1, 3.



October 11, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

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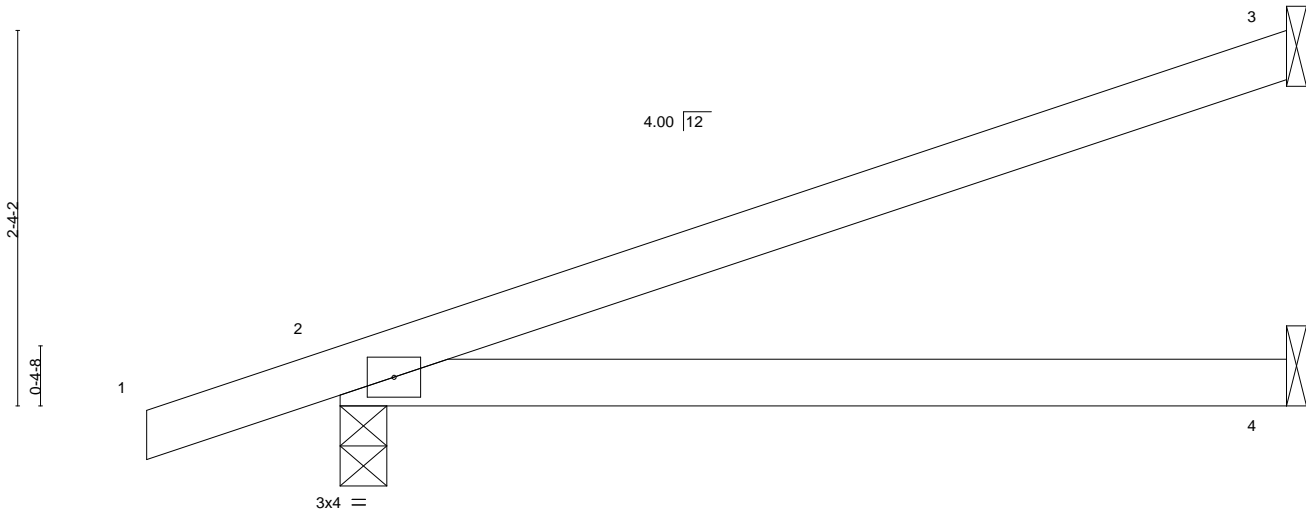
Job B-73554	Truss J06	Truss Type Jack-Open	Qty 1	Ply 1	Barton	E13627520
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:29 2019 Page 1
ID:3D0p8_T8JDUctKIX_OlqplyUu2D-td6opyb4PT3YGy0Rlgu7zU8Uo1VUAjdlrq6F03yUkju



Scale = 1:14.4



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 0.50	Vert(LL)	-0.05	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.12	4-7	>608		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

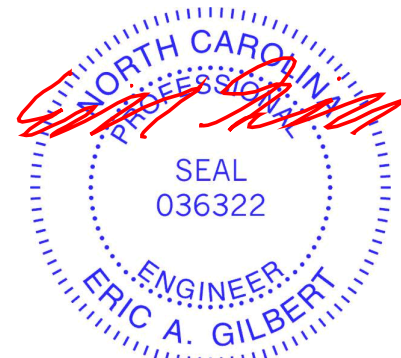
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=152/Mechanical, 2=314/0-3-8, 4=75/Mechanical
Max Horz 2=82(LC 6)
Max Uplift 3=59(LC 10), 2=72(LC 6)
Max Grav 3=152(LC 1), 2=314(LC 1), 4=107(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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.



October 11, 2019

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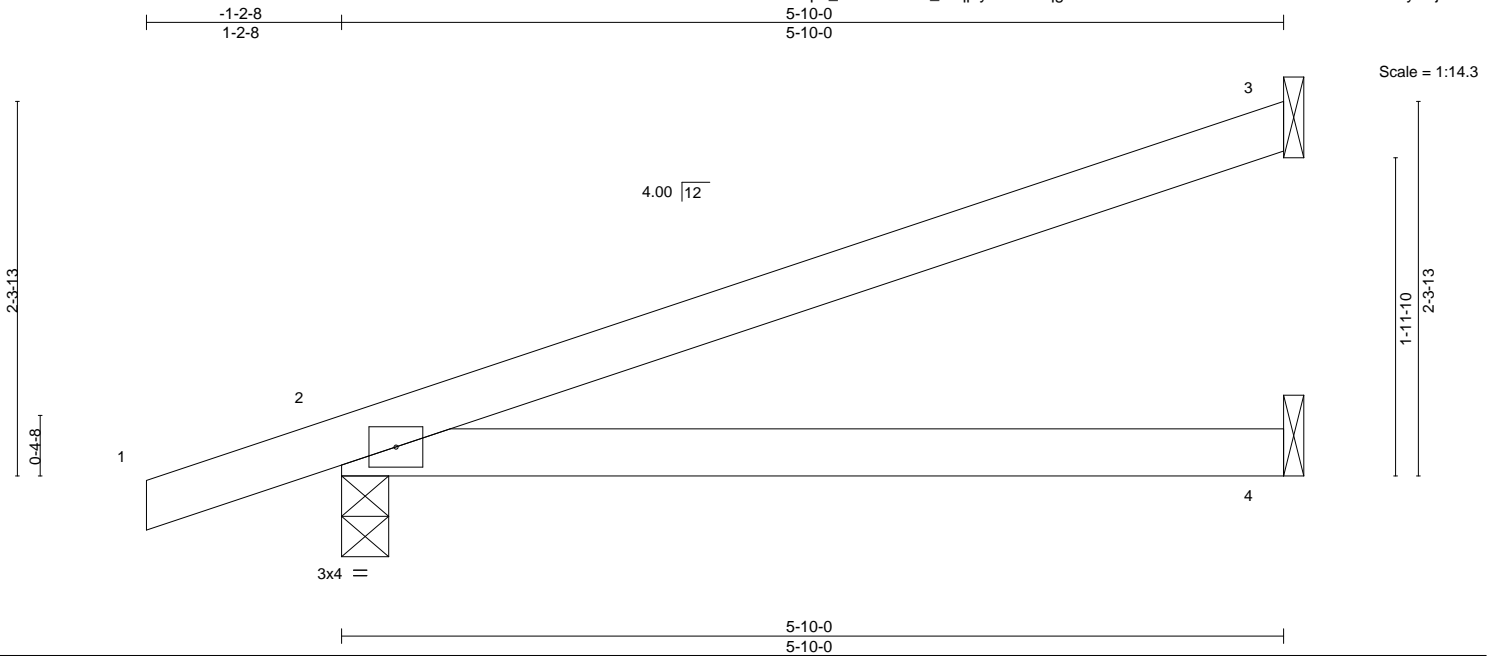


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Job B-73554	Truss J07	Truss Type Jack-Open	Qty 18	Ply 1	Barton	E13627521
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8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:30 2019 Page 1
ID:3D0p8_T8JDUctKIX_OlqplyUu2D-LqgA1IciAmBpt6bdsNPMW/hheoRruvAtr4UroYWyUkjt



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.05	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.11	4-7	>635	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 20 lb	FT = 20%

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

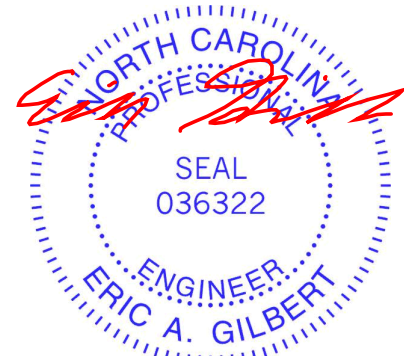
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=149/Mechanical, 2=311/0-3-8, 4=74/Mechanical
Max Horz 2=81(LC 6)
Max Uplift 3=-58(LC 10), 2=-72(LC 6)
Max Grav 3=149(LC 1), 2=311(LC 1), 4=105(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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.



October 11, 2019

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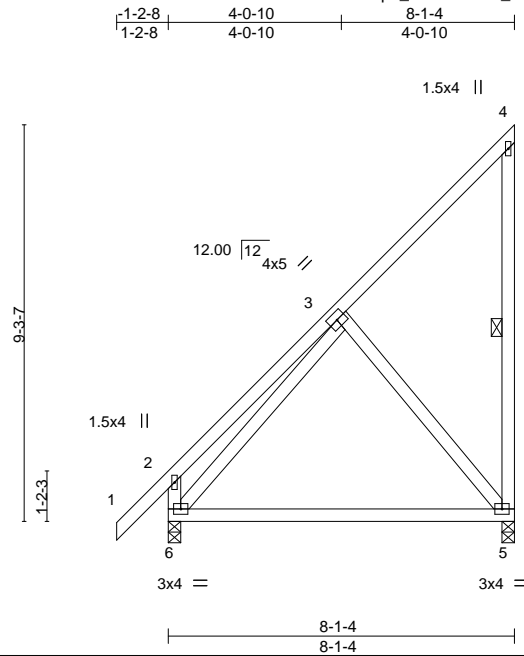


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Job B-73554	Truss M01	Truss Type Monopitch	Qty 2	Ply 1	Barton	E13627522
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:31 2019 Page 1
ID:3D0p8_T8JDUctKIX_OlqplyUu2D-p0EYEEdcKx4JGVFAPQ4wb2vDIRrAfeagbl8bL4yyUkjs



Scale = 1:53.9

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL) -0.16	5-6	>569	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(CT) -0.33	5-6	>285	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

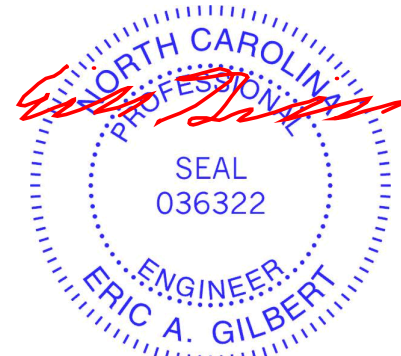
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-5

REACTIONS. (lb/size) 5=305/0-3-8, 6=401/0-3-8
 Max Horz 6=300(LC 7)
 Max Uplift 5=-154(LC 7), 6=-8(LC 6)
 Max Grav 5=376(LC 17), 6=424(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-320/79

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=154.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

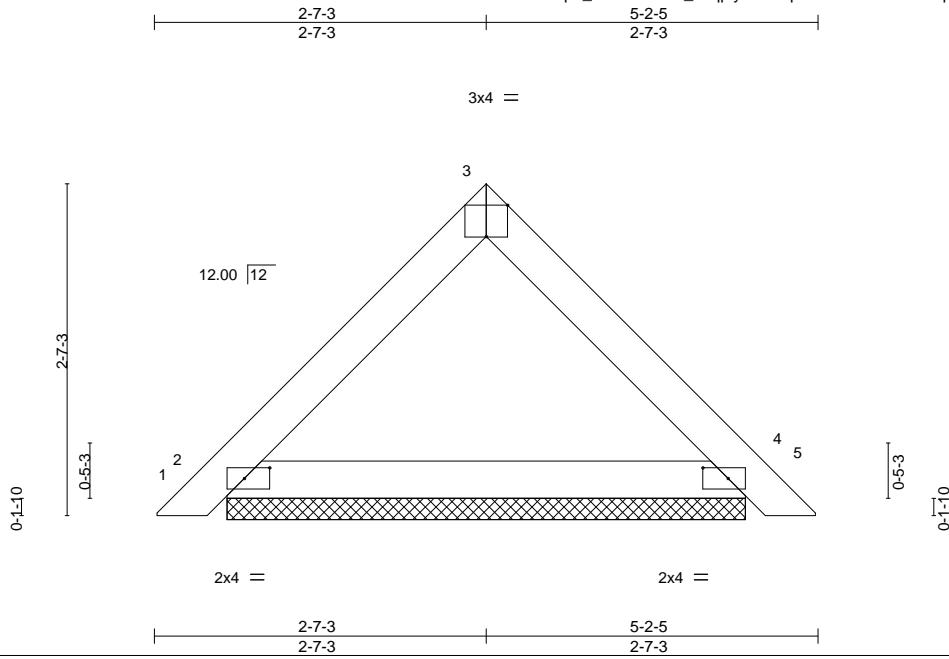


818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss PB01	Truss Type Piggyback	Qty 1	Ply 1	Barton	E13627523
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:31 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqplyUu2D-p0EYEdcKx4JGVFApQ4wb2vDv3rCmed7bl8bL4yyUkjs



Scale = 1:18.0

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

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	5	n/r	180	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) 0.00	5	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) -0.00	5	n/r	120			
								Weight: 17 lb	FT = 20%

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

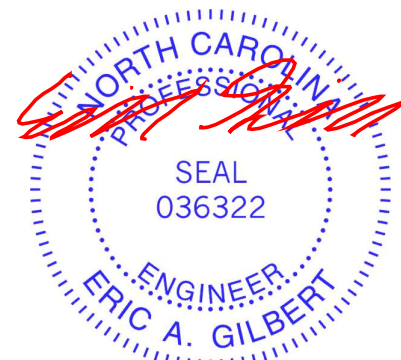
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=183/4-0-11, 4=183/4-0-11
Max Horz 2=-50(LC 8)
Max Uplift 2=-18(LC 10), 4=-18(LC 11)

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=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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 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, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

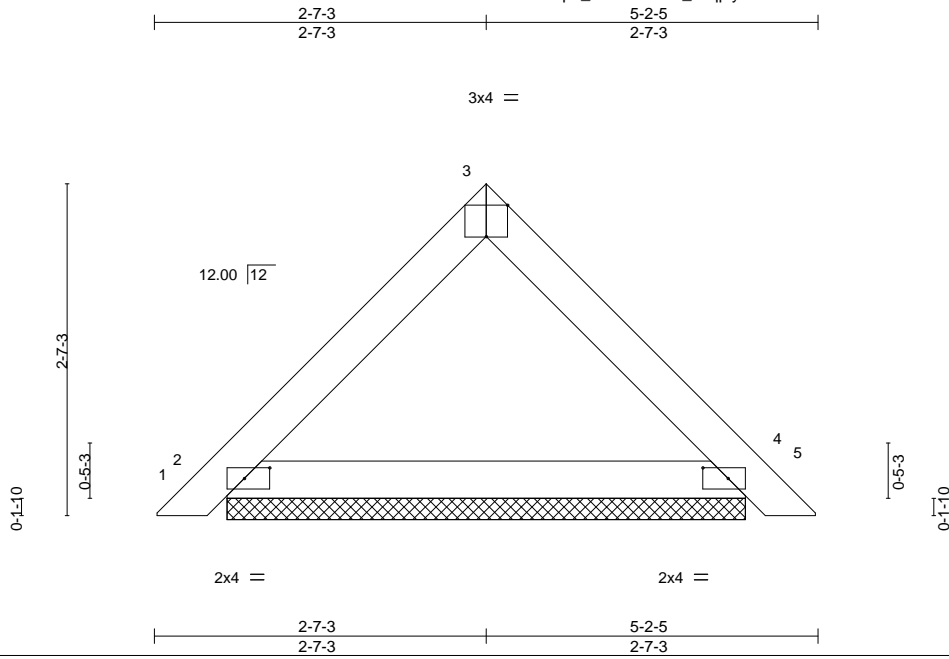


818 Soundside Road
Edenton, NC 27932

Job B-73554	Truss PB02	Truss Type Piggyback	Qty 26	Ply 1	Barton	E13627524
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:32 2019 Page 1
ID:3DOp8_T8JDUctKIX_OiqplyUu2D-HCowSzdzIOR77PI?zoRqb6m4pFY?N3NkXoKvcOyUkjr



Scale = 1:18.0

Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.20
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.00	5	n/r
Vert(CT)	0.00	5	n/r
Horz(CT)	0.00	4	n/a
Wind(LL)	-0.00	5	n/r
PLATES	GRIP		
MT20	244/190		
Weight: 17 lb	FT = 20%		

LUMBER-

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

BRACING-

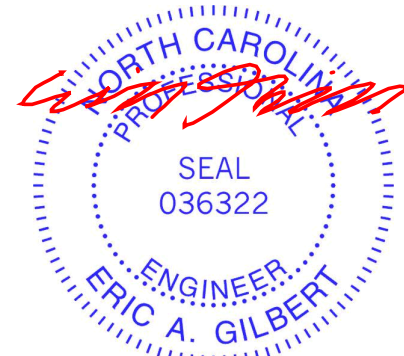
TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=183/4-0-11, 4=183/4-0-11
Max Horz 2=-50(LC 8)
Max Uplift 2=-18(LC 10), 4=-18(LC 11)

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=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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 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, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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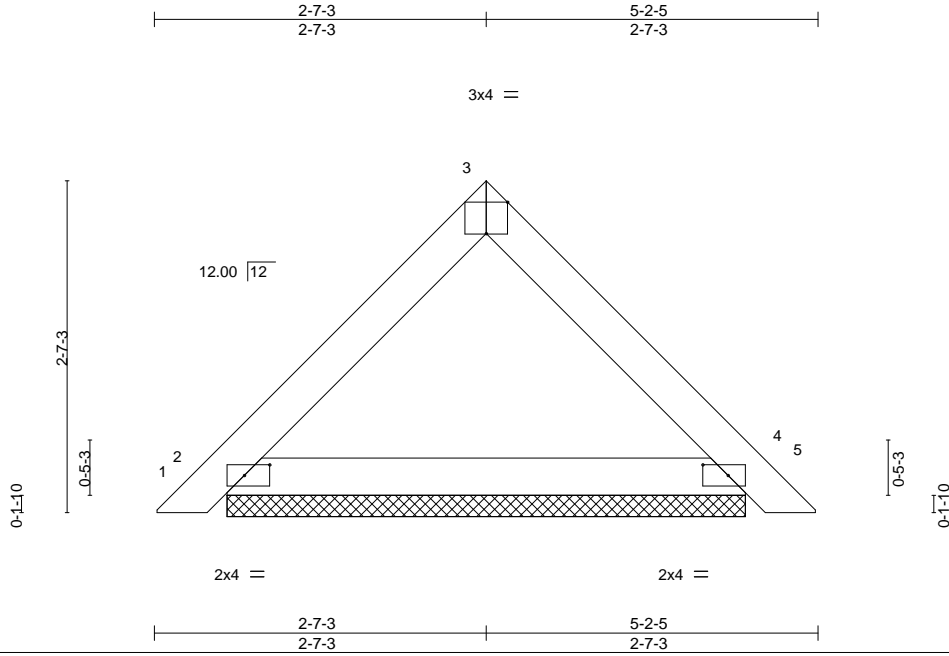


818 Soundside Road
Edenton, NC 27932

Job B-73554	Truss PB03	Truss Type Piggyback	Qty 1	Ply 1	Barton	E13627525
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:32 2019 Page 1
ID:3DOp8_T8JDUctKIX_OiqplyUu2D-HCowSzdzOR77PI?zoRqb6m4pFY?N3NkXoKvcOyUkjr



Scale = 1:18.0

Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.20
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.00	5	n/r
Vert(CT)	0.00	5	n/r
Horz(CT)	0.00	4	n/a
Wind(LL)	-0.00	5	n/r
PLATES	GRIP		
MT20	244/190		
Weight: 17 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 5-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=183/4-0-11, 4=183/4-0-11
Max Horz 2=-50(LC 8)
Max Uplift 2=-18(LC 10), 4=-18(LC 11)

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=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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 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, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 11, 2019

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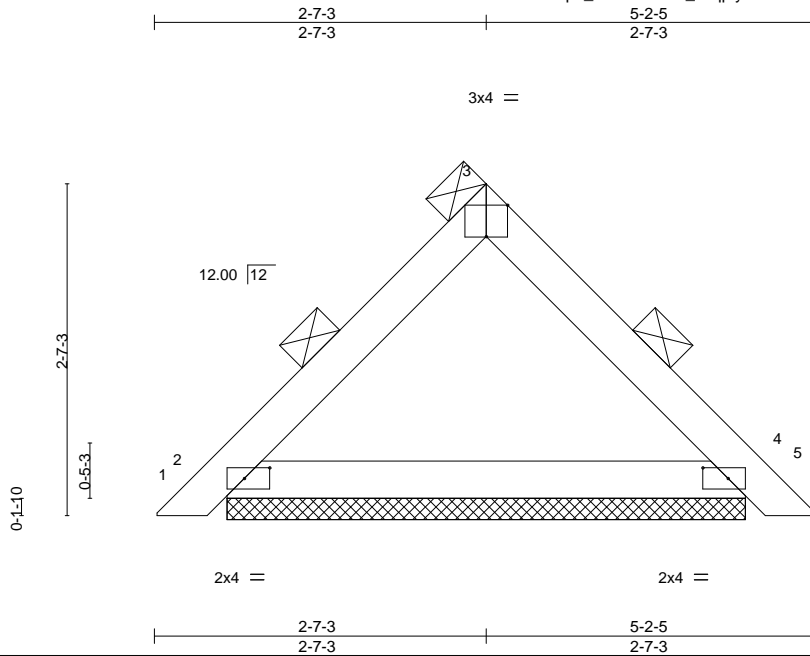


818 Soundside Road
Edenton, NC 27932

Job B-73554	Truss PB04	Truss Type Piggyback	Qty 1	Ply 2	Barton	E13627526
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:33 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqpyUu2D-mPLJfJebThZ_kZKCXVz38KJF6ft26WcumS4S9qUkjq



Scale = 1:18.0

Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]	
LOADING (psf)	SPACING-	5-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10
TCDL 10.0	Lumber DOL	1.15	BC 0.28
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.00	5	n/r
Vert(CT)	0.00	5	n/r
Horz(CT)	0.00	4	n/a
Wind(LL)	-0.00	5	n/r
PLATES	GRIP		
MT20	244/190		
Weight: 34 lb	FT = 20%		

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

BRACING-
TOP CHORD 2-0-0 oc purlins
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=459/4-0-11, 4=459/4-0-11
Max Horz 2=-125(LC 8)
Max Uplift 2=-45(LC 10), 4=-45(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-296/98, 3-4=-296/98

NOTES-

- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

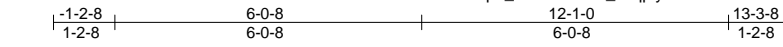
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

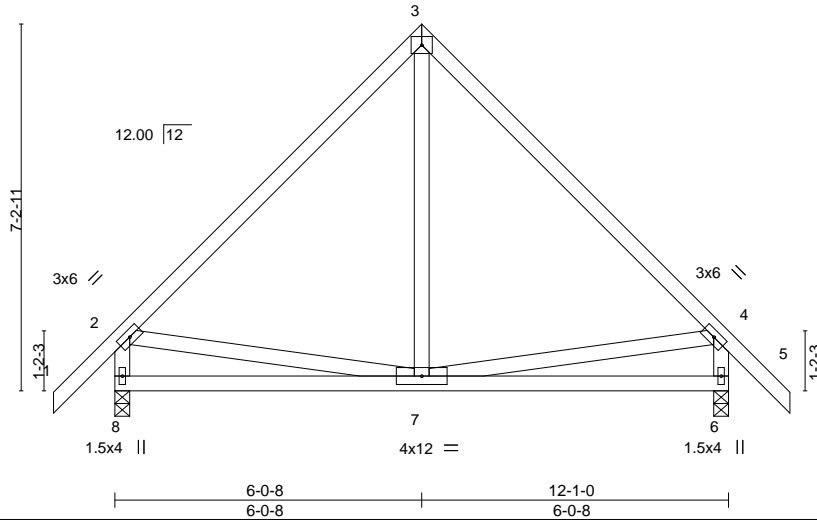
Job B-73554	Truss T01	Truss Type Common	Qty 1	Ply 1	Barton	E13627527
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:33 2019 Page 1
 ID:3DOP8_T8JDUctKIX_OIqplyUu2D-mPLJfJebThZ_kZKCXVz38KJ5Kfs46VDumS4S9qyUkjq



4x5 =

Scale = 1:45.4



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 0.73	Vert(LL)	-0.03	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.07	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						
								Weight: 78 lb	FT = 20%

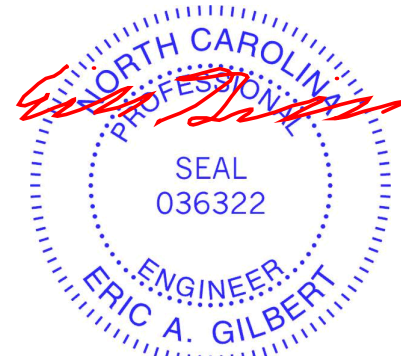
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=553/0-3-8, 6=553/0-3-8
 Max Horz 8=-183(LC 8)
 Max Uplift 8=-54(LC 10), 6=-54(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-424/82, 3-4=-424/82, 2-8=-508/150, 4-6=-508/150
 WEBS 2-7=-1/250, 4-7=-1/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



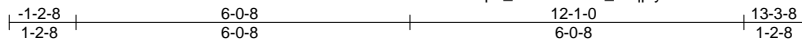
October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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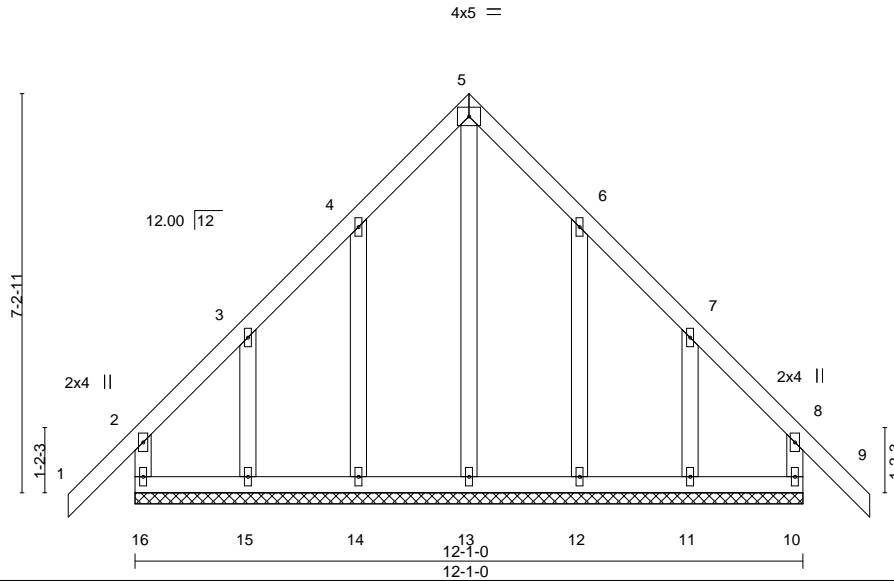
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 818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T01GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Barton	E13627528
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:34 2019 Page 1
 ID:3D0p8_T8JDuctKIX_OlqplyUu2D-EbvhsffDE?hrMjvO5DUlgXrPJ2GNrwP176p0hHyUkjp



Scale = 1:41.7



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 0.13	Vert(LL)	-0.01	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R	Wind(LL)	0.00	9	n/r	Weight: 83 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 12-1-0.
 (lb) - Max Horz 16=183(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=135(LC 10), 11=133(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 14, 15, 12, 11 except 13=298(LC 20)

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

WEBS 5-13=274/151

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=135, 11=133.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



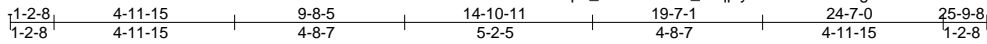
818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T02	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Barton Job Reference (optional)	E13627529
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:36 2019 Page 1

ID:3DOP8_T8JDUCtKIX_OlqplyUu2D-Az1RHLgTlcxZb12nCeWmlyxi2so1JpgKSQL6m9yUkjin



Scale: 3/16"=1'

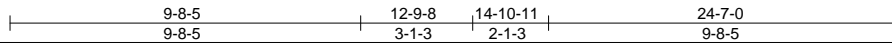
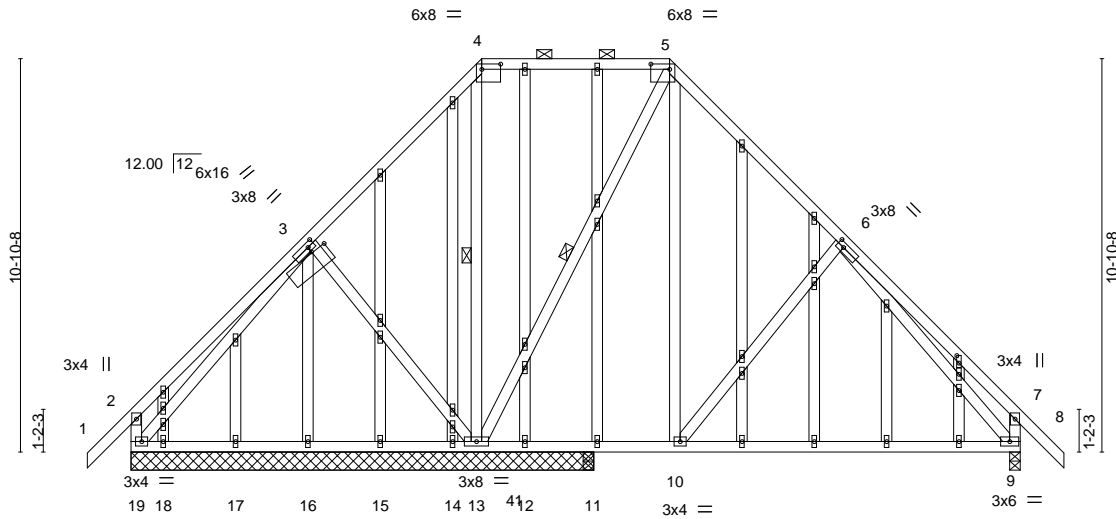


Plate Offsets (X,Y)-- [3:0-5-0,0-0-8], [3:0-2-4,0-1-8], [4:0-6-4,0-1-12], [5:0-6-4,0-1-12], [6:0-2-4,0-1-8], [38:0-2-8,0-0-12]

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 0.37	Vert(LL)	-0.19	9-10	>743	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.38	9-10	>368		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

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.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-13, 5-13

REACTIONS.

All bearings 12-9-8 except (jt=length) 9=0-3-8.
 (lb) - Max Horz 19=-261(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 9, 11, 18 except 13=-154(LC 10), 11=-102(LC 3)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 14, 15, 16, 17, 18 except 13=887(LC 1), 19=379(LC 21), 9=676(LC 22)

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

TOP CHORD 5-6=-408/193, 6-7=-355/168, 2-19=-278/220, 7-9=-377/204
 BOT CHORD 12-13=-12/260, 11-12=-12/260, 10-11=-12/260, 9-10=0/328
 WEBS 3-13=-279/228, 4-13=-305/85, 5-13=-466/51, 5-10=-66/447, 6-10=-267/220, 6-9=-302/35

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 9, 18 except (jt=lb) 13=154, 11=102.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



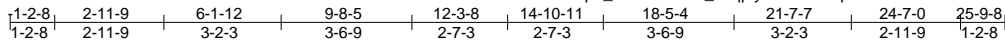
818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T03	Truss Type ATTIC	Qty 3	Ply 1	Barton	E13627530
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:37 2019 Page 1

ID:3DOP8_T8JDUctKIX_OlqplyUu2D-eAbpVhh5Ww3PDAdzmL?IATIKG8i2EdTh42glcyUkjm



Scale = 1:62.5

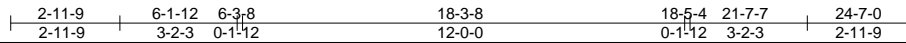
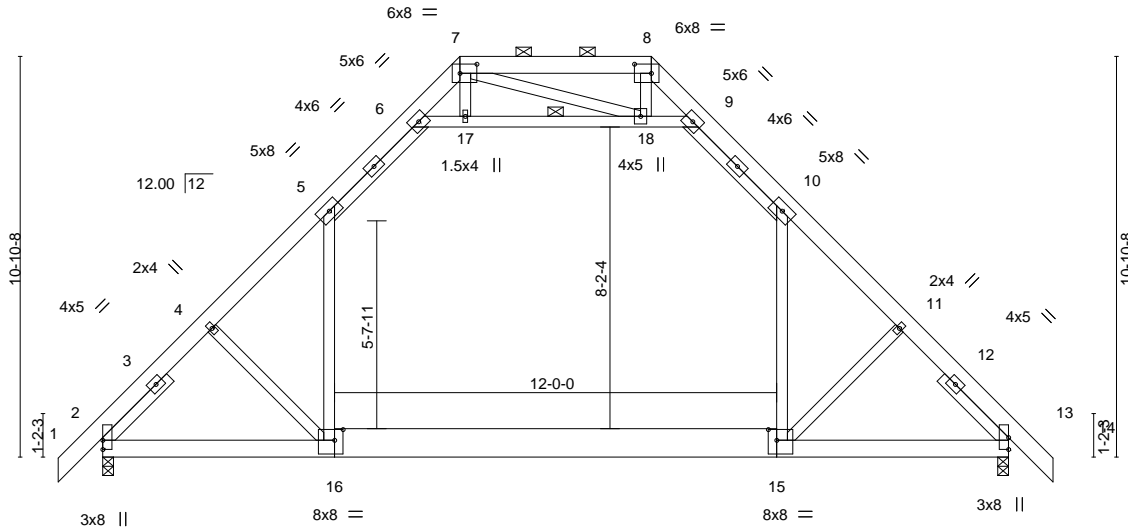


Plate Offsets (X,Y)-- [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [15:0-2-12,0-3-8], [16:0-2-12,0-3-8]

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 0.85	Vert(LL)	-0.27 15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.37 15-16	>806	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.18 15-16	790	360	Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 15-16: 2x10 SP No.1
 WEBS 2x4 SP No.3 *Except*
 6-9,5-16,10-15: 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 - 2-6-0, Right 2x4 SP No.3 -H 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
 BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.
 WEBS 1 Row at midpt 6-9

REACTIONS.

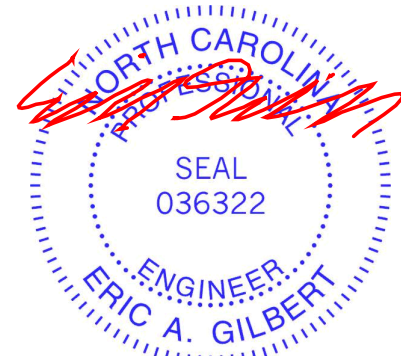
(lb/size) 2=1117/0-3-8, 13=1117/0-3-8
 Max Horz 2=-232(LC 8)
 Max Uplift 2=-49(LC 10), 13=-49(LC 11)
 Max Grav 2=1342(LC 2), 13=1342(LC 2)

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

TOP CHORD 2-4=-1531/144, 4-5=-1481/164, 5-6=-916/195, 6-7=-260/172, 9-10=-917/195,
 10-11=-1479/163, 11-13=-1529/144, 7-8=-100/397
 BOT CHORD 2-16=-112/1128, 15-16=0/977, 13-15=0/992
 WEBS 6-17=-1274/246, 17-18=-1266/248, 9-18=-1302/253, 5-16=0/762, 10-15=0/758

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-17, 17-18, 9-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T03A	Truss Type Piggyback Base	Qty 9	Ply 1	Barton	E13627531
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:38 2019 Page 1
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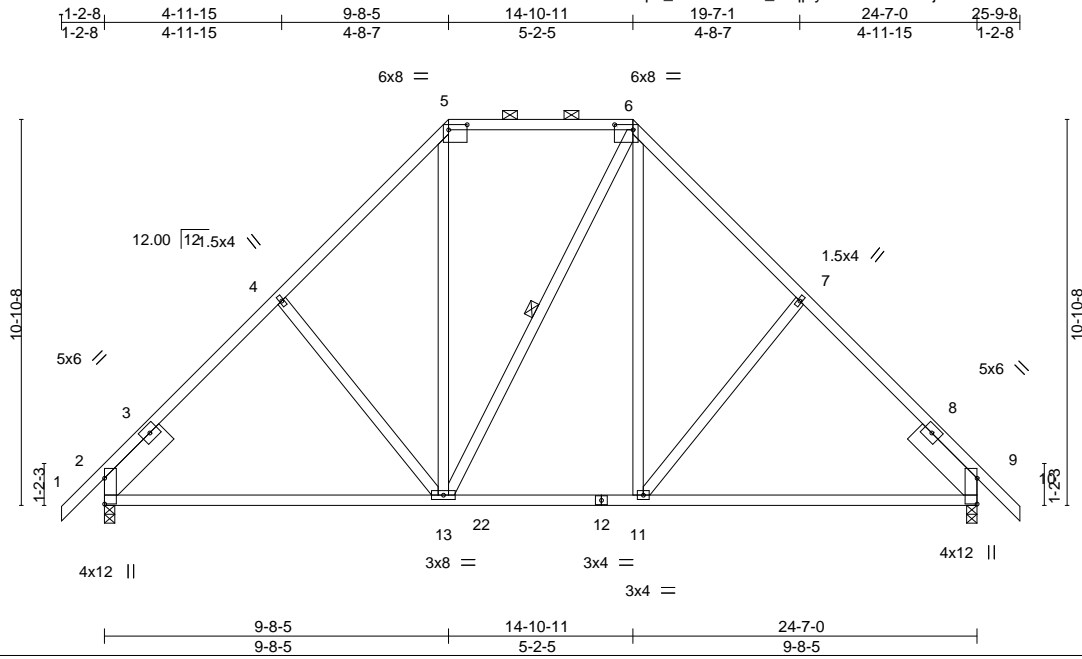


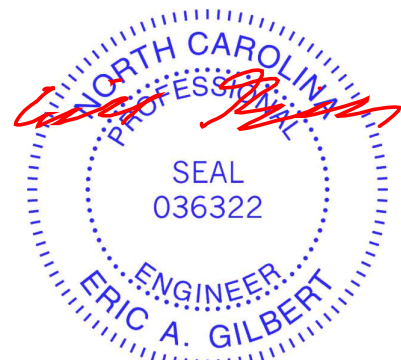
Plate Offsets (X,Y)--	[2:Edge,0-0-0], [5:0-6-4,0-1-12], [6:0-6-4,0-1-12], [9:Edge,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSL.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.14 11-20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.28 11-20 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x8 SP DSS -H 2-6-0, Right 2x8 SP DSS -H 2-6-0	WEBS 1 Row at midpt 6-13

REACTIONS. (lb/size) 2=1056/0-3-8, 9=1056/0-3-8
Max Horz 2=-231(LC 8)
Max Uplift 2=-85(LC 10), 9=-85(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1029/214, 4-5=-896/267, 5-6=-561/244, 6-7=-895/267, 7-9=-1029/214
BOT CHORD 2-13=-119/762, 11-13=-9/610, 9-11=-0/665
WEBS 4-13=-254/210, 5-13=-72/344, 6-11=-99/388, 7-11=-254/210

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

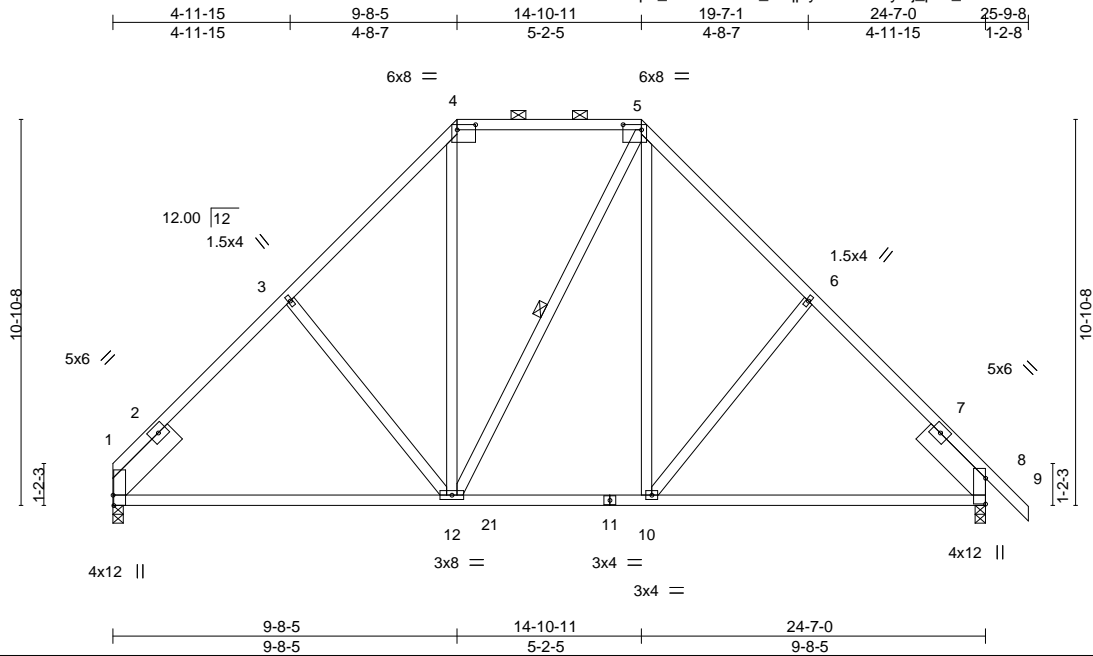


October 11, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job B-73554	Truss T04A	Truss Type Piggyback Base	Qty 6	Ply 1	Barton	E13627533
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:40 2019 Page 1
 ID:3D0p8_T8JDUctKIX_OlqplyUu2D-2lHy7ij_prR_4eMYRTbiwo5NCT9kFdGwN1GKvxyUkij



Scale = 1:64.9

Plate Offsets (X,Y)--	[1:0-3-8,Edge], [4:0-6-4,0-1-12], [5:0-6-4,0-1-12], [8:Edge,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.14 10-19 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.28 10-19 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.04 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x8 SP DSS -H 2-6-0, Right 2x8 SP DSS -H 2-6-0	WEBS 1 Row at midpt 5-12

REACTIONS. (lb/size) 1=982/0-3-8, 8=1058/0-3-8
 Max Horz 1=-222(LC 8)
 Max Uplift 1=-63(LC 10), 8=-85(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1034/215, 3-4=-901/269, 4-5=-562/245, 5-6=-898/268, 6-8=-1031/214
 BOT CHORD 1-12=-119/768, 10-12=-9/612, 8-10=-1/666
 WEBS 3-12=-254/211, 4-12=-73/347, 5-10=-99/388, 6-10=-254/210

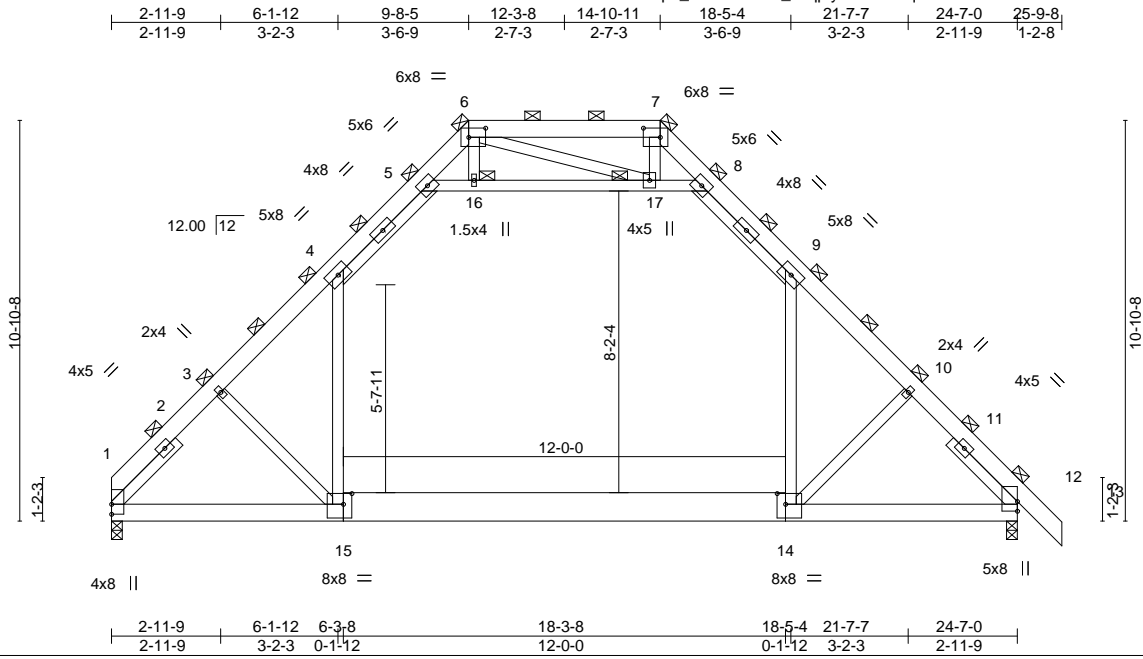
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end 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) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

Job B-73554	Truss T05	Truss Type ATTIC	Qty 1	Ply 2	Barton	E13627534
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Structural Building Components, LLC, Albemarle, NC - 28001, 8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:41 2019 Page 1
 ID:3DOP8_T8JDUctKIX_OlqplyUu2D-XxqKK2kca9Zrloxk?B6xS0eQVWf_4R3ch0tRNYUkji



Scale = 1:62.5

Plate Offsets (X,Y)--	[6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [14:0-2-12,0-3-8], [15:0-2-12,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.30 14-15 >976 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.41 14-15 >721 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 12 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.20 14-15 718 360	Weight: 462 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 6-7: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x6 SP No.2 *Except* 14-15: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-8,4-15,9-14: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 6, 7, 16, 17
SLIDER Left 2x4 SP No.3 -H 2-6-0, Right 2x4 SP No.3 -H 2-6-0	

REACTIONS.
(lb/size) 1=2608/0-3-8, 12=2798/0-3-8
Max Horz 1=558(LC 6)
Max Uplift 1=66(LC 8), 12=122(LC 9)
Max Grav 1=3201(LC 2), 12=3360(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3816/191, 3-4=-3690/209, 4-5=-2283/308, 5-6=-656/407, 7-8=-626/465, 8-9=-2288/310, 9-10=-3646/208, 10-12=-3801/173, 6-7=-262/969
BOT CHORD 1-15=-290/2834, 14-15=0/2435, 12-14=0/2466
WEBS 5-16=-3147/589, 16-17=-3128/593, 8-17=-3228/608, 4-15=0/1887, 9-14=0/1870, 3-15=-615/545, 10-14=-576/537, 7-17=-71/268, 6-17=-457/424

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFERS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 16-17, 8-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=122.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T06	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Barton	E13627535
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:42 2019 Page 1
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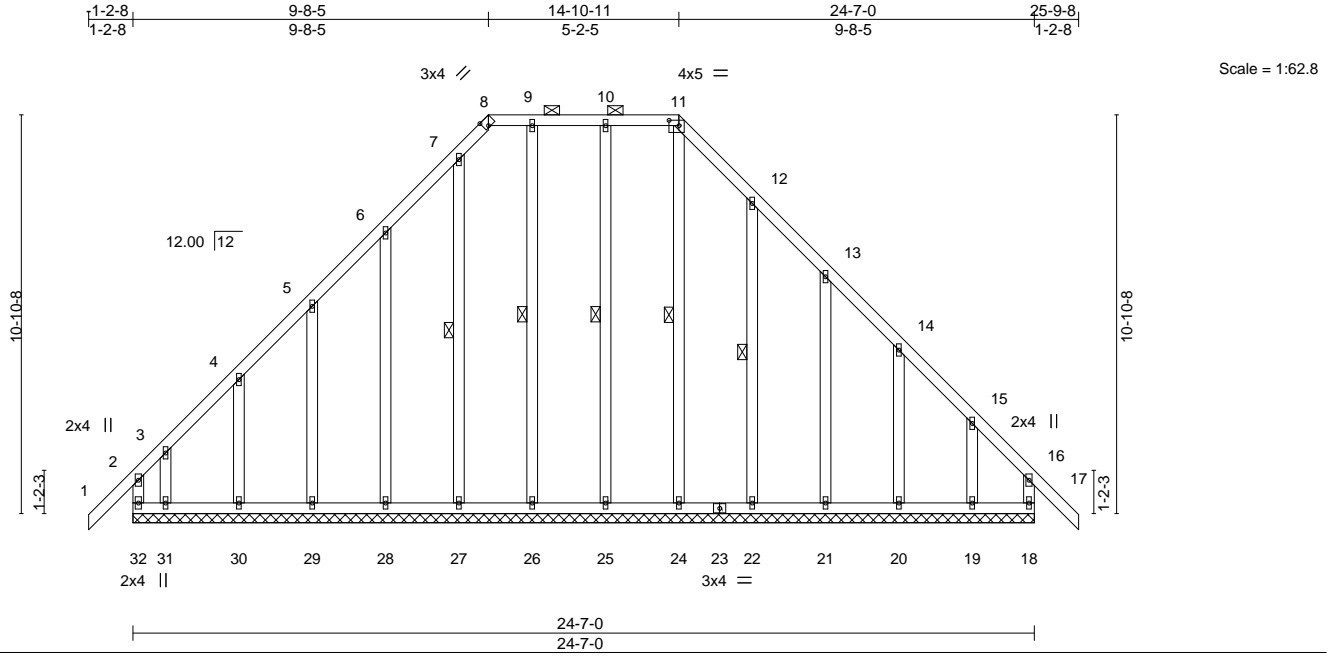


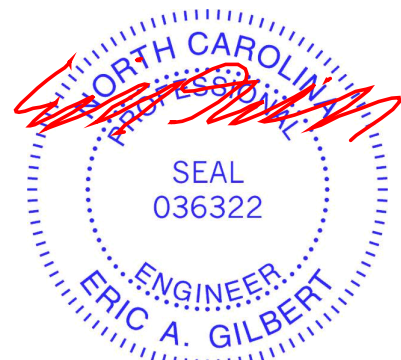
Plate Offsets (X,Y)--	[8:0-1-8,Edge], [11:0-3-4,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.01 17 n/r 180	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.01 17 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) 0.00 17 n/r 120	Weight: 212 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	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.): 8-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 11-24, 10-25, 9-26, 7-27, 12-22
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 24-7-0.
 (lb) - Max Horz 32=-262(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 29, 30, 22, 21, 20 except 32=-270(LC 6), 18=-104(LC 7), 28=-119(LC 10), 31=-267(LC 10), 19=-182(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 18, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19 except 32=340(LC 7), 24=252(LC 19), 31=286(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-255/238, 6-7=-228/294, 11-12=-245/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 29, 30, 22, 21, 20 except (jt=lb) 32=270, 18=104, 28=119, 31=267, 19=182.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

Job B-73554	Truss T07	Truss Type Roof Special Girder	Qty 1	Ply 1	Barton	E13627536
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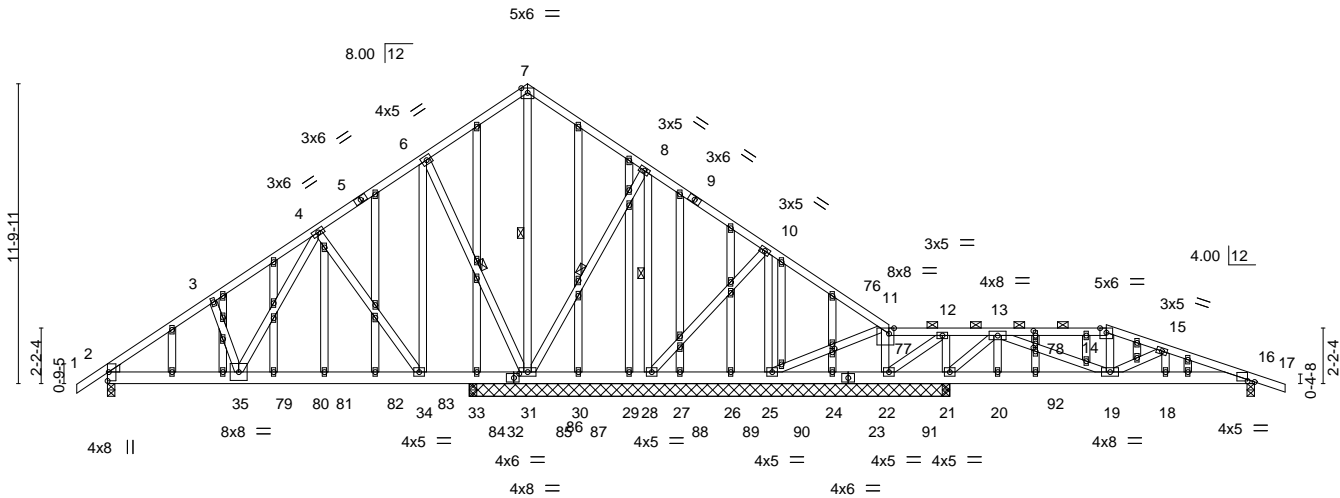
Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:48 2019 Page 1

ID:3D0p8_T8JDuctKIX_OlqplyUu2D-pHm_oSq?xlSs1tz4v9kaFUQiviuQ78o5DHCIBTyUkjB

1-2-8	4-2-1	8-3-8	12-5-0	16-6-8	21-3-7	26-0-5	30-9-4	35-0-10	39-4-0	41-8-0	45-2-0	46-4-8
1-2-8	4-2-1	4-1-8	4-1-8	4-1-8	4-8-15	4-8-15	4-8-15	4-3-6	4-3-6	2-3-15	3-6-1	1-2-8

Scale = 1:90.7



5-2-0	12-5-0	14-3-0, 16-6-8	21-3-7	23-8-8	26-0-5	30-9-4	33-2-0	35-0-10	39-4-0	41-8-0	45-2-0
5-2-0	7-3-0	1-10-0, 2-3-8	4-8-15	2-5-1	2-3-13	4-8-15	2-4-12	1-10-10	4-3-6	2-3-15	3-6-1

Plate Offsets (X,Y)-- [2:0-0-3,0-0-4], [2:0-0-6,0-4-1], [2:Edge,0-0-9], [11:0-2-6,Edge], [16:0-3-5,0-0-7], [32:0-2-8,0-2-0], [61:0-1-12,0-1-0], [62:0-2-4,0-1-0], [64:0-1-12,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.11	34-35	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.21	34-35	>835		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.74	Horz(CT)	0.01	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 438 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except 2-0-0 oc purlins (4-4-14 max.): 11-14.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-31, 7-31, 8-31, 8-28

REACTIONS. All bearings 18-11-0 except (jt=length) 2=0-3-8, 16=0-3-8, 33=0-3-8, 33=0-3-8.
(lb) - Max Horz 2=-256(LC 25)
Max Uplift All uplift 100 lb or less at joint(s) 25, 30, 29, 27, 26, 33 except 2=-145(LC 8), 31=-484(LC 8), 28=-145(LC 9), 22=-147(LC 19), 21=-257(LC 5), 16=-153(LC 5)
Max Grav All reactions 250 lb or less at joint(s) 22, 29, 27, 26, 24 except 2=1005(LC 19), 31=2226(LC 1), 28=256(LC 20), 25=326(LC 20), 21=1764(LC 20), 21=1756(LC 1), 30=316(LC 21), 16=737(LC 20), 33=346(LC 21), 33=314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1408/213, 3-4=-1311/266, 6-7=-97/607, 7-8=-72/615, 8-10=-70/481, 10-11=-78/370, 11-12=-62/378, 12-13=-116/889, 13-14=-1331/244, 14-15=-1405/241, 15-16=-1558/262
BOT CHORD 2-35=-259/1100, 34-35=-94/550, 30-31=-366/266, 29-30=-366/266, 28-29=-366/266, 27-28=-263/176, 26-27=-263/176, 25-26=-263/176, 24-25=-397/140, 22-24=-397/140, 21-22=-889/187, 18-19=-208/1461, 16-18=-208/1461
WEBS 4-35=-272/1124, 4-34=-757/261, 6-34=-278/1245, 6-31=-1269/373, 7-31=-845/104, 11-22=-312/95, 13-21=-1486/242, 13-19=-188/1194, 12-21=-551/118, 12-22=-82/660

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 30, 29, 27, 26, 33 except (jt=lb) 2=145, 31=484, 28=145, 22=147, 21=257, 16=153.



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job	Truss	Truss Type	Qty	Ply	Barton	E13627536
B-73554	T07	Roof Special Girder	1	1	Job Reference (optional)	

Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:48 2019 Page 2
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NOTES-

- 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) 129 lb down and 90 lb up at 29-3-4, 129 lb down and 69 lb up at 31-3-4, 129 lb down and 69 lb up at 33-3-4, 129 lb down and 69 lb up at 35-3-4, and 129 lb down and 69 lb up at 37-3-4, and 129 lb down and 69 lb up at 39-4-0 on top chord, and 506 lb down and 150 lb up at 5-10-0, 183 lb down and 70 lb up at 7-3-4, 183 lb down and 70 lb up at 9-3-4, 183 lb down and 70 lb up at 11-3-4, 183 lb down and 70 lb up at 13-3-4, 183 lb down and 70 lb up at 15-3-4, 183 lb down and 70 lb up at 17-3-4, 183 lb down and 70 lb up at 19-3-4, 183 lb down and 70 lb up at 21-3-4, 183 lb down and 70 lb up at 23-3-4, 183 lb down and 70 lb up at 25-3-4, 183 lb down and 70 lb up at 27-3-4, 65 lb down at 29-3-4, 65 lb down at 31-3-4, 65 lb down at 33-3-4, 65 lb down at 35-3-4, and 65 lb down at 37-3-4, and 376 lb down and 72 lb up at 39-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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

Uniform Loads (plf)

Vert: 1-7=-60, 7-11=-60, 11-14=-60, 14-17=-60, 16-71=-20

Concentrated Loads (lb)

Vert: 14=-89(F) 28=-183(F) 21=-54(F) 20=-54(F) 13=-89(F) 19=-376(F) 23=-54(F) 12=-89(F) 76=-89(F) 77=-89(F) 78=-89(F) 79=-506(F) 80=-183(F) 81=-183(F) 82=-183(F) 83=-183(F) 84=-183(F) 86=-183(F) 87=-183(F) 88=-183(F) 89=-183(F) 90=-183(F) 91=-54(F) 92=-54(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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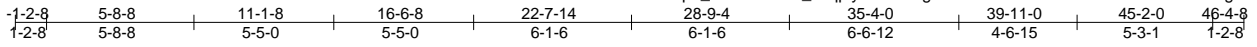


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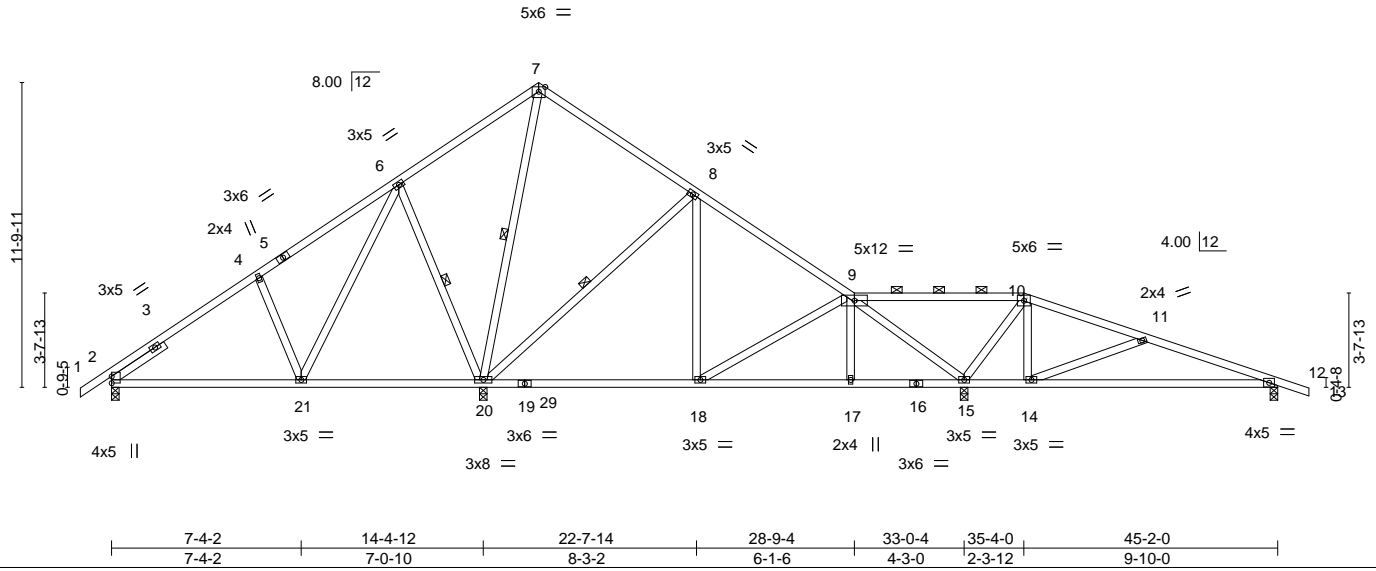
Job B-73554	Truss T09	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627538
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:50 2019 Page 1
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Scale = 1:89.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.19 18-20 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.33 14-28 >445 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 9-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,14-15.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 7-20, 8-20
SLIDER Left 2x4 SP No.3 -H 2-6-0	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=-261(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 20=-135(LC 10), 15=-210(LC 11), 12=-118(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) except 2=566(LC 21), 20=1740(LC 17), 15=1389(LC 22), 12=414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-455/94, 4-6=-420/158, 6-7=0/357, 7-8=-56/255, 8-9=-428/116, 9-10=-70/586, 11-12=-441/179
 BOT CHORD 2-21=-127/477, 18-20=0/320, 17-18=0/270, 15-17=0/267, 12-14=-112/404
 WEBS 4-21=-295/177, 6-21=-116/575, 6-20=-609/245, 7-20=-500/0, 8-20=-602/184, 8-18=0/302, 9-15=-1065/180, 10-15=-865/158, 10-14=0/441, 11-14=-514/197

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 20=135, 15=210, 12=118.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



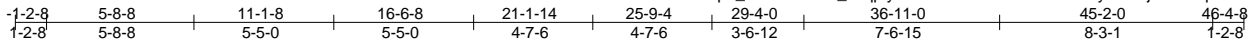
October 11, 2019

Job B-73554	Truss T12	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627541
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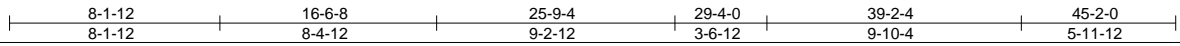
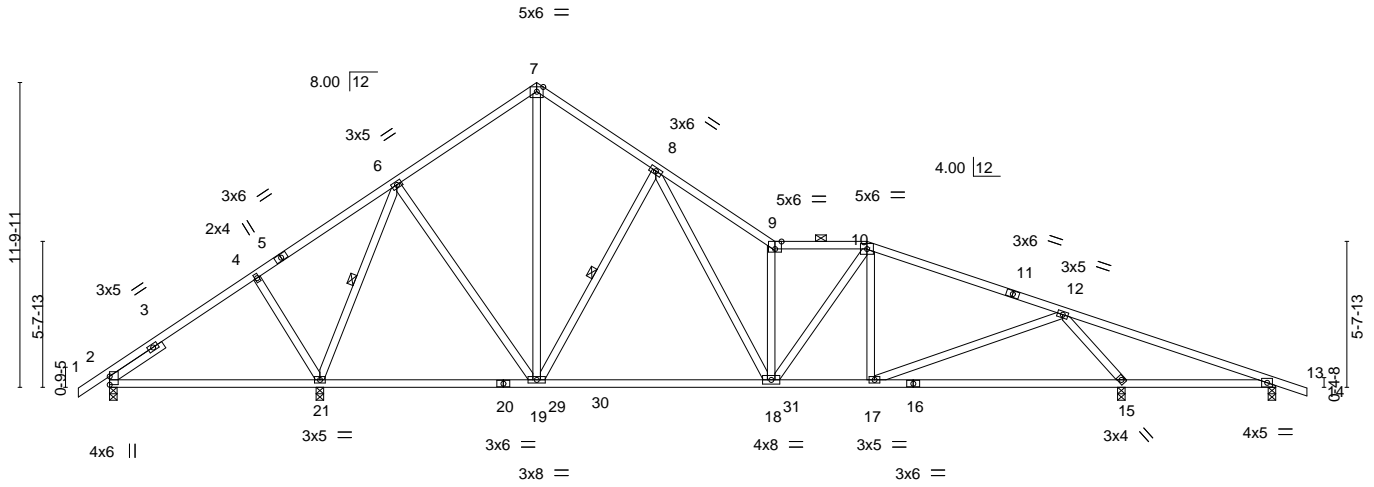
Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:53 2019 Page 1

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Scale = 1:89.2



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 0.96	Vert(LL)	-0.24	18-19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.44	18-19	>854		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.03	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 270 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except* 16-20: 2x4 SP No.1	2-0-0 oc purlins (4-5-13 max.): 9-10.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-7-14 oc bracing.
SLIDER Left 2x4 SP No.3 -H 2-6-0	WEBS 1 Row at midpt 6-21, 8-19

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=-269(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 21=-144(LC 10), 13=-103(LC 7), 15=-202(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 2=334(LC 21), 21=2038(LC 17), 15=1698(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-429/401, 4-6=0/475, 6-7=-824/256, 7-8=-818/262, 8-9=-1946/447, 9-10=-1625/329,
 10-12=-1494/298, 12-13=-107/749
 BOT CHORD 2-21=-290/266, 19-21=-30/370, 18-19=0/1059, 17-18=-98/1352, 15-17=-126/624,
 13-15=-645/163
 WEBS 4-21=-332/176, 6-21=-1585/230, 6-19=-15/724, 7-19=-179/597, 8-19=-830/281,
 8-18=-265/1236, 9-18=-1212/310, 10-18=-44/528, 12-17=0/875, 12-15=-1902/446

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 21=144, 13=103, 15=202.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

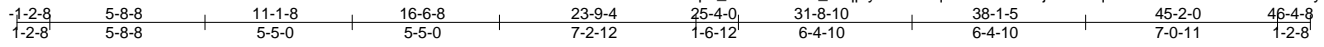
TRENCO ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T14	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627543
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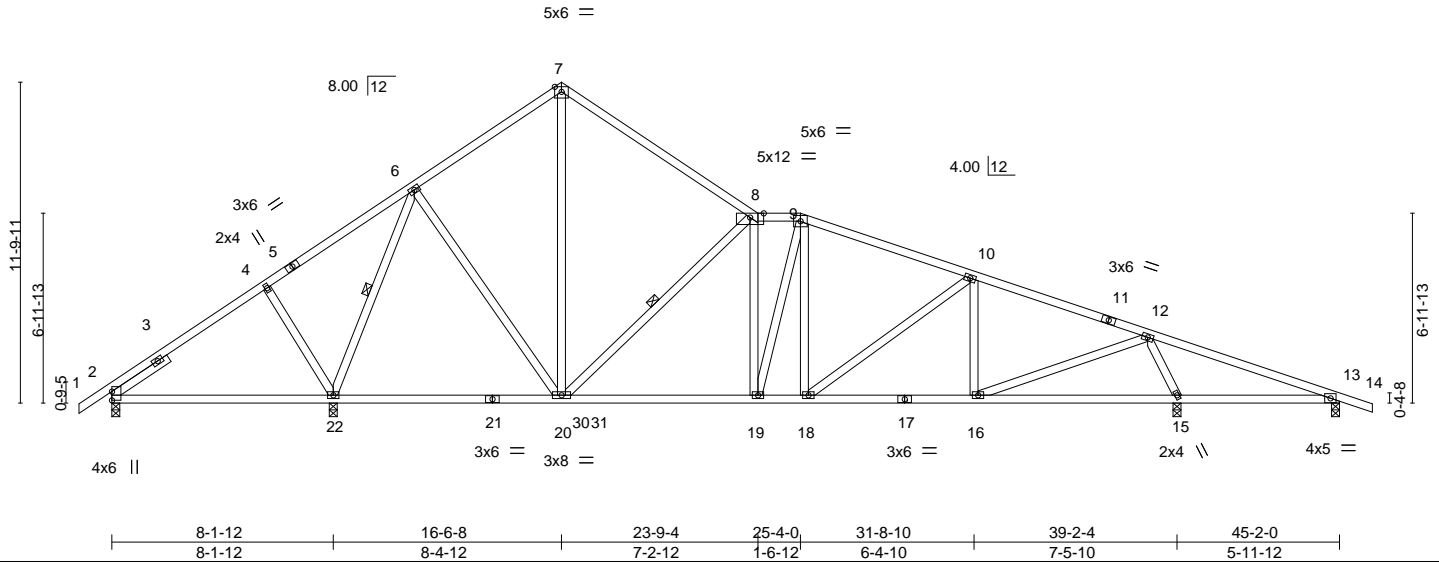
Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:56 2019 Page 1

ID:3D0p8_T8JDUctKIX_OlqplyUu2D-aqE?UBw02mSj?5adNqtSZAm?cwaW?nFG2X8AT?yUkJT



Scale = 1:84.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.22 20-22 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.30 20-22 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 275 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-8-8 max.): 8-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22,13-15.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-22, 8-20
SLIDER Left 2x4 SP No.3 -H 2-6-0	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=-274(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 22=-135(LC 10), 15=-206(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 2=367(LC 21), 22=1934(LC 17), 15=1662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-417/282, 4-6=-51/365, 6-7=-844/276, 7-8=-874/259, 8-9=-1357/341, 9-10=-1426/331, 10-12=-1511/327, 12-13=-68/549
 BOT CHORD 2-22=-195/267, 20-22=-36/424, 19-20=-76/1363, 18-19=-75/1298, 16-18=-153/1374, 13-15=-461/123
 WEBS 4-22=-326/177, 6-22=-1462/214, 6-20=-13/666, 7-20=-144/534, 8-20=-984/294, 9-19=-50/343, 10-16=-302/123, 12-16=-123/1212, 12-15=-1618/375

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 22=135, 15=206.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

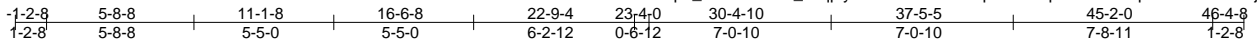


October 11, 2019

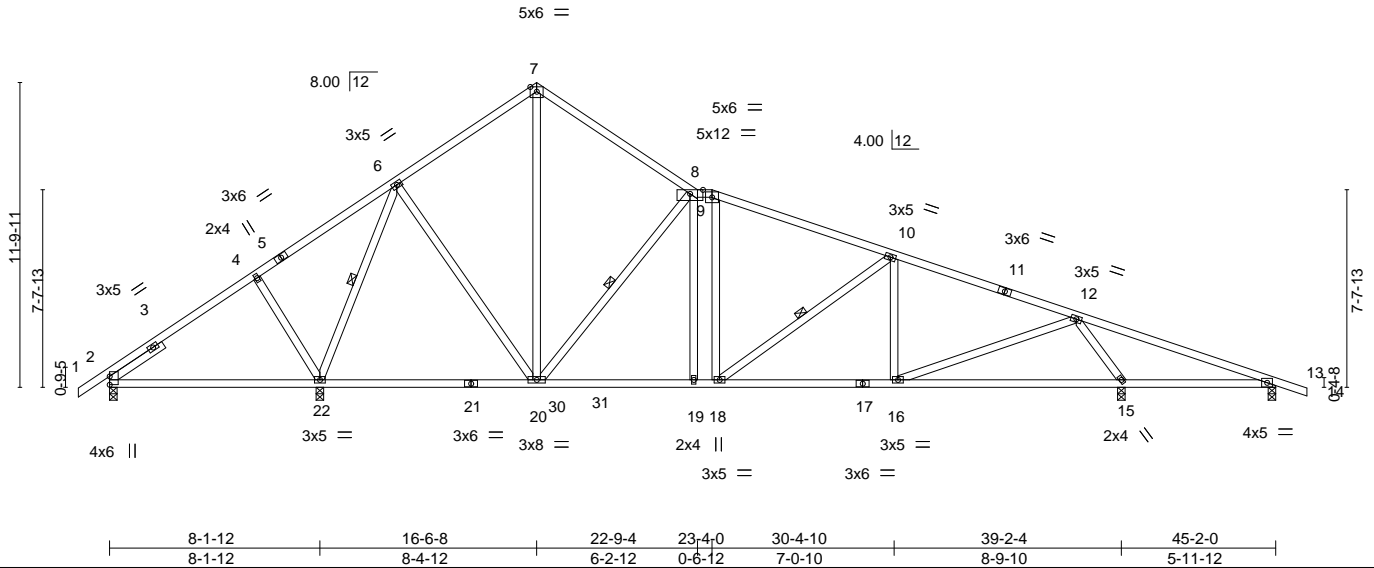
Job B-73554	Truss T15	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627544
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:57 2019 Page 1
ID:3D0p8_T8JDUctKIX_OlqplyUu2D-30oNhWxep3aadF9pxYOh6NICpKwxkEZQHBJ?RyUkjS



Scale = 1:89.2



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.23	20-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.32	20-22	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.04	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 270 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-11-9 max.): 8-9.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
SLIDER Left 2x4 SP No.3 -H 2-6-0	6-0-0 oc bracing: 2-22,13-15.
	WEBS 1 Row at midpt 6-22, 8-20, 10-18

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=-276(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 22=-142(LC 10), 15=-198(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 2=374(LC 21), 22=1931(LC 17), 15=1665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-412/269, 4-6=-63/365, 6-7=-847/284, 7-8=-853/274, 8-9=-1231/339,
 9-10=-1363/328, 10-12=-1588/350, 12-13=-72/578
 BOT CHORD 2-22=-185/266, 20-22=-33/426, 19-20=-51/1245, 18-19=-51/1242, 16-18=-162/1442,
 15-16=-110/530, 13-15=-476/129
 WEBS 4-22=-324/177, 6-22=-1453/219, 6-20=-12/653, 7-20=-173/563, 8-20=-936/293,
 9-18=-33/258, 10-18=-332/162, 12-16=-56/979, 12-15=-1756/416

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 22=142, 15=198.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

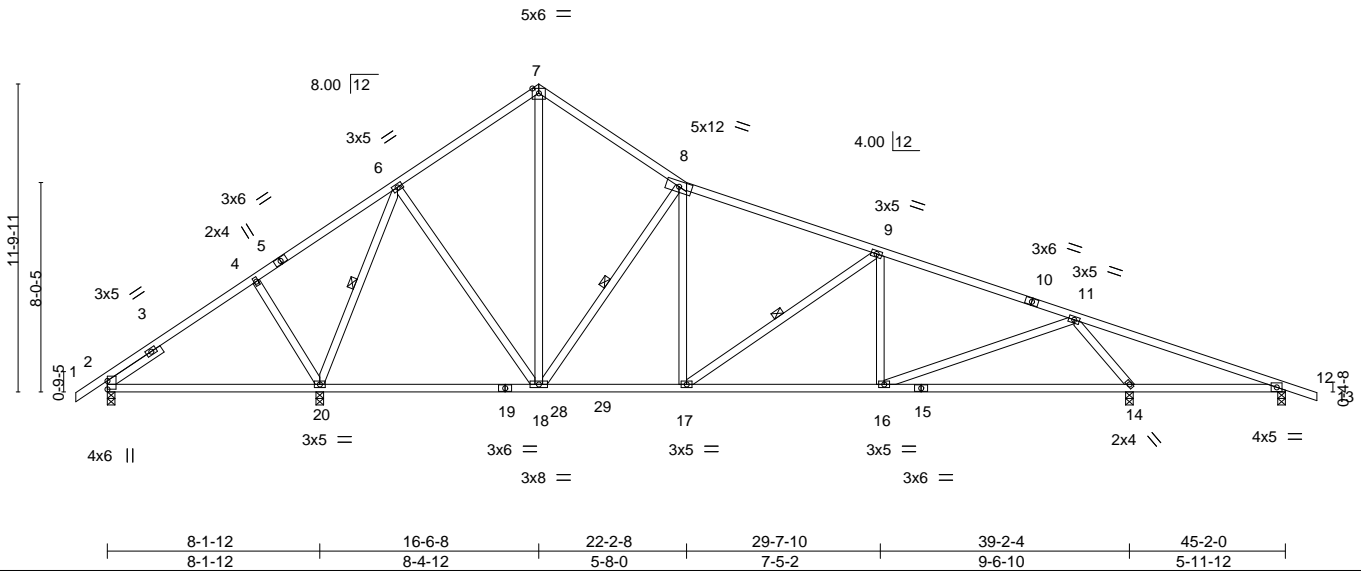
Job B-73554	Truss T16	Truss Type Roof Special	Qty 2	Ply 1	Barton	E13627545
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:02:58 2019 Page 1
ID:3DOP8_T8JDUctKIX_OlqplyUu2D-XCMmvxGaNiREPk?VFwwebrMikHyTi0ZWrdHXuyUkjR

-1-2-8	5-8-8	11-1-8	16-6-8	22-2-8	29-7-10	37-0-13	45-2-0	46-4-8
1-2-8	5-8-8	5-5-0	5-5-0	5-8-0	7-5-2	7-5-2	8-1-3	1-2-8

Scale = 1:88.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.23 18-20 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.33 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 263 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 -H 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 6-20, 8-18, 9-17

REACTIONS.

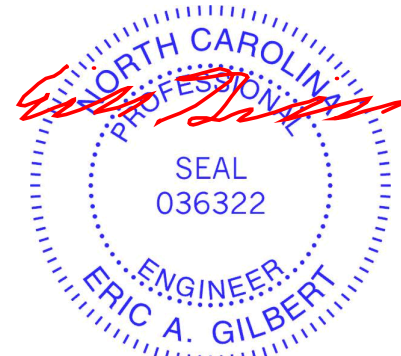
All bearings 0-3-8.
 (lb) - Max Horz 2--278(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 20=134(LC 10), 14=191(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=373(LC 21), 20=1886(LC 17), 14=1651(LC 1)

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

TOP CHORD 2-4=-406/257, 4-6=-62/341, 6-7=-834/287, 7-8=-835/282, 8-9=-1265/320,
 9-11=-1611/358, 11-12=-66/565
 BOT CHORD 2-20=-175/276, 18-20=-39/435, 17-18=-33/1166, 16-17=-162/1461, 14-16=-149/679,
 12-14=-461/124
 WEBS 4-20=-321/176, 6-20=-1416/228, 6-18=-19/630, 7-18=-188/571, 8-18=-922/292,
 8-17=-46/400, 9-17=-437/176, 11-16=-15/843, 11-14=-1812/434

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 20=134, 14=191.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job B-73554	Truss T18	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627547
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:01 2019 Page 1
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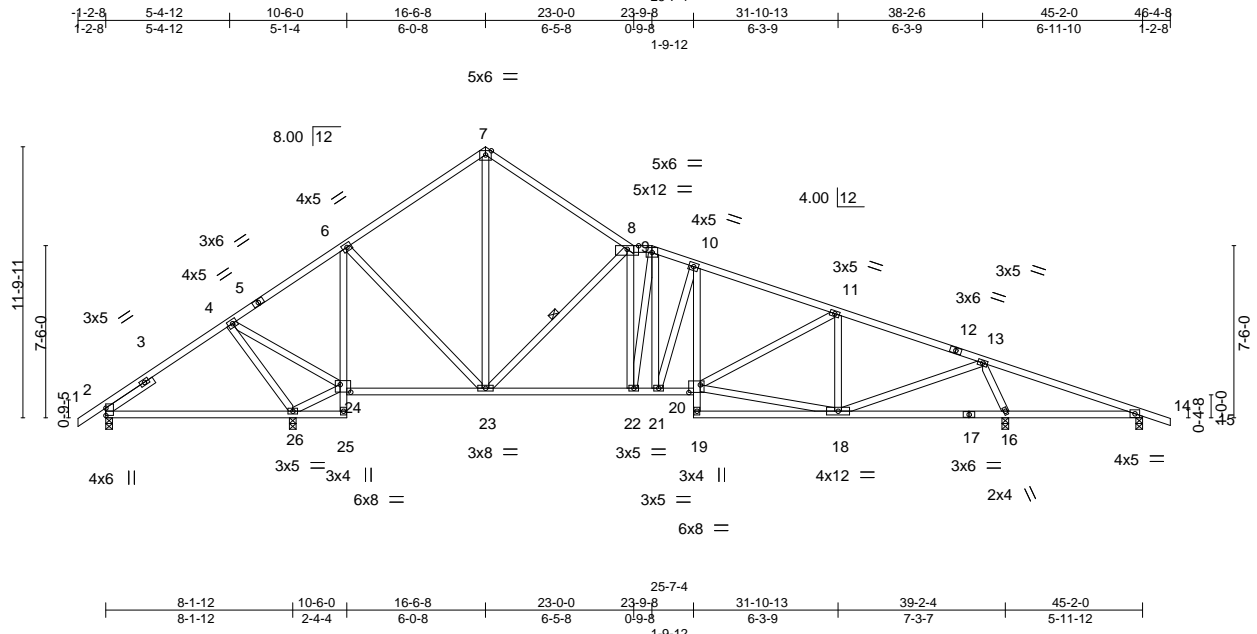


Plate Offsets (X,Y)--	[20:0-6-0,0-4-0], [24:0-5-8,0-4-0]
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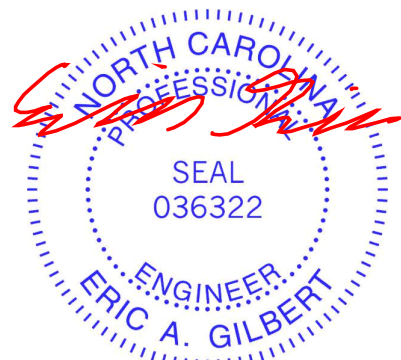
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.08	26-29	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.17	26-29	>568	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.06	16	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 303 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except* 6-25,10-19: 2x4 SP No.3	2-0-0 oc purlins (4-9-10 max.): 8-9.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 -H 2-6-0	WEBS 1 Row at midpt 8-23

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=276(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 26=149(LC 10), 16=214(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=305(LC 21), 26=1818(LC 1), 16=1680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-450/339, 4-6=-315/93, 6-7=-804/254, 7-8=-801/248, 8-9=-1322/336,
 9-10=-1423/354, 10-11=-1628/355, 11-13=-1413/316, 13-14=-89/651
 BOT CHORD 6-24=-1080/221, 23-24=-35/304, 22-23=-51/1321, 21-22=-48/1301, 20-21=-102/1488,
 10-20=-20/300, 14-16=-551/142
 WEBS 4-26=-1371/227, 24-26=-1021/303, 4-24=-94/1211, 6-23=-47/648, 7-23=-129/469,
 8-23=-1028/289, 9-21=-163/452, 10-21=-565/161, 18-20=-146/1197, 11-20=-4/252,
 11-18=-547/157, 13-18=-140/1259, 13-16=-1621/381

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) 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, 14 except (jt=lb) 26=149, 16=214.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

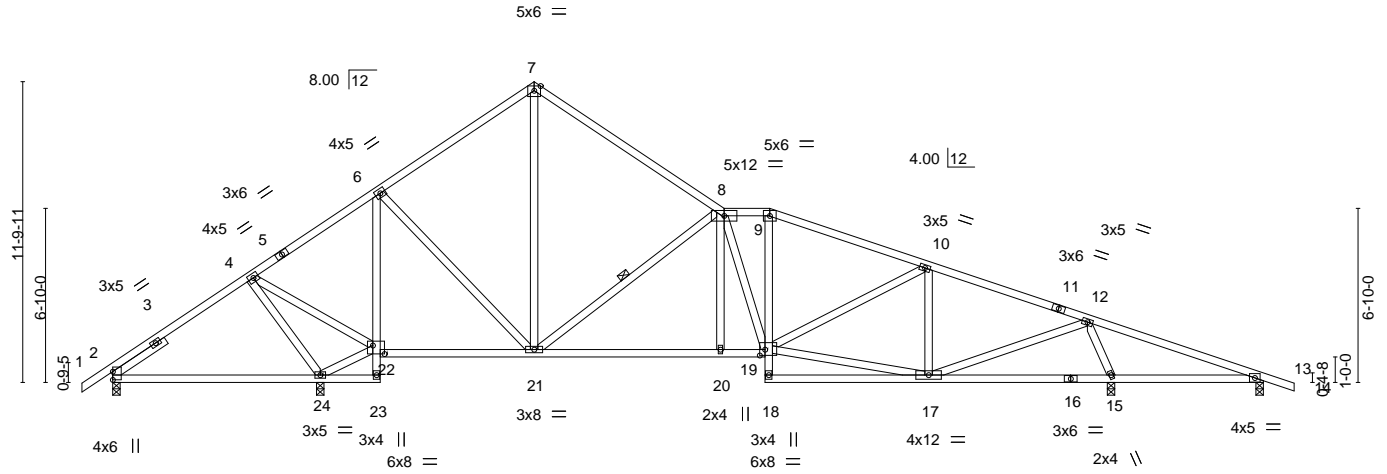
Job B-73554	Truss T19	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627548
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Structural Building Components, LLC, Albemarle, NC - 28001, 8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:02 2019 Page 1

ID:3DOP8_T8JDUctKIX_OlqplyUu2D-P_cGIE_necDsj02mk5_spR??3LdQPUF9RSbUgfyUkJN

1-2-8	5-4-12	10-6-0	16-6-8	24-0-0	25-9-8	32-0-5	38-3-2	45-2-0	46-4-8
1-2-8	5-4-12	5-1-4	6-0-8	7-5-8	1-9-8	6-2-13	6-2-13	6-10-14	1-2-8

Scale = 1:90.4



8-1-12	10-6-0	16-6-8	24-0-0	25-7-4	32-0-5	39-2-4	45-2-0
8-1-12	2-4-4	6-0-8	7-5-8	1-7-4	6-5-1	7-1-15	5-11-12

Plate Offsets (X,Y)-- [19:0-2-8,0-2-12], [22:0-5-8,0-4-0]

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 0.91	Vert(LL)	-0.08 20-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.20 20-21	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.06 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 285 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-23,9-18: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -H 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-5-15 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-21

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=273(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 24=147(LC 10), 15=213(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=299(LC 21), 24=1829(LC 1), 15=1669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-449/351, 4-6=-306/94, 6-7=-802/251, 7-8=-819/237, 8-9=-1432/347,
9-10=-1573/342, 10-12=-1412/313, 12-13=-82/628
BOT CHORD 6-22=-1092/214, 21-22=-36/295, 20-21=-90/1493, 19-20=-92/1489, 9-19=-47/305,
13-15=-530/135
WEBS 4-24=-1375/226, 22-24=-1036/294, 4-22=-92/1213, 6-21=-50/666, 7-21=-107/457,
8-21=-1137/305, 8-20=0/279, 8-19=-263/35, 17-19=-154/1173, 10-17=-517/155,
12-17=-144/1279, 12-15=-1598/371

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 24=147, 15=213.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job B-73554	Truss T21	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627550
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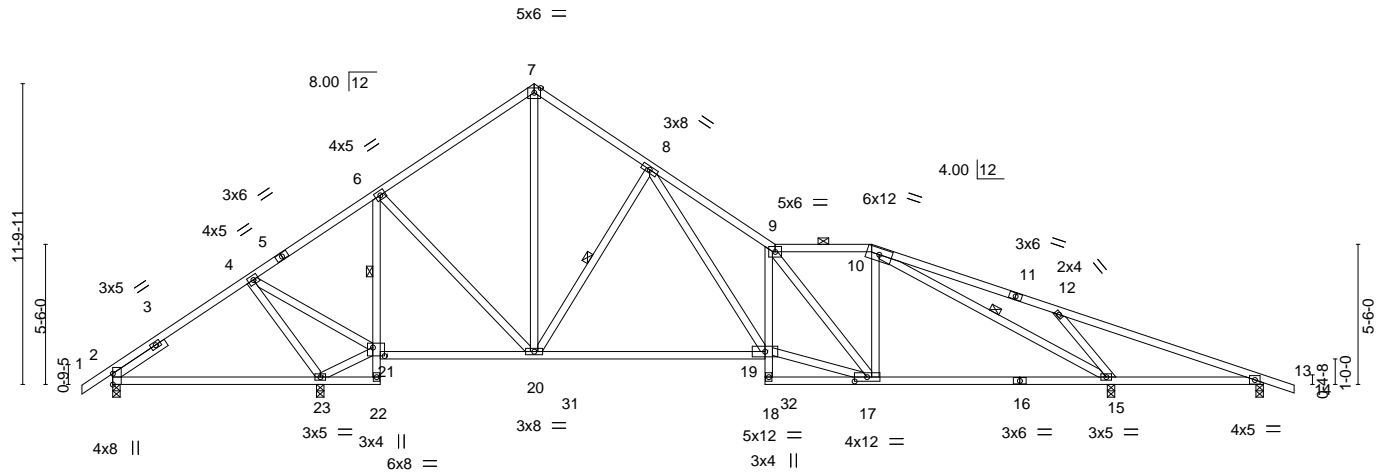
Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:05 2019 Page 1

ID:3D0p8_T8JDUctKIX_OlqplyUu2D-qZHPNG1fwXbRaUmLPDXZR3dXdYfGcpib7Qq9H_yUkJk

1-2-8	5-4-12	10-6-0	16-6-8	21-0-14	25-7-4	26-0-0	29-9-8	37-1-12	45-2-0	46-4-8
1-2-8	5-4-12	5-1-4	6-0-8	4-6-6	4-6-6	0-4-12	3-9-8	7-4-3	8-0-5	1-2-8

Scale = 1:90.4



8-1-12	10-6-0	16-6-8	25-7-4	29-9-8	39-2-4	45-2-0
8-1-12	2-4-4	6-0-8	9-0-12	4-2-4	9-4-12	5-11-12

Plate Offsets (X,Y)-- [17:0-5-14,0-2-0], [21:0-5-8,0-4-0]

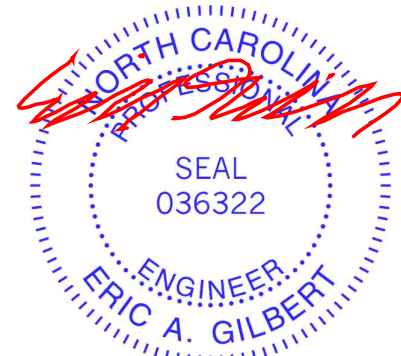
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.39	19-20	>956	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.65	19-20	>579		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.07	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 284 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except* 6-22,9-18: 2x4 SP No.3, 19-21: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	1 Row at midpt 6-21
SLIDER Left 2x4 SP No.3 -H 2-6-0	WEBS 1 Row at midpt 8-20, 10-15

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=-268(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-219(LC 24), 23=-141(LC 10), 15=-247(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 13 except 23=2045(LC 17), 15=1573(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-426/603, 6-7=-741/232, 7-8=-723/246, 8-9=-2265/461, 9-10=-1319/287,
 10-12=-295/257, 12-13=-206/516
 BOT CHORD 2-23=-450/196, 6-21=-1324/207, 19-20=0/1042, 9-19=-712/251, 15-17=-79/1303,
 13-15=-411/257
 WEBS 4-23=-1499/222, 21-23=-1356/291, 4-21=-89/1319, 6-20=-35/897, 7-20=-148/474,
 8-20=-886/266, 8-19=-276/1590, 17-19=-84/1984, 9-17=-974/97, 10-17=0/465,
 10-15=-1352/46, 12-15=-930/462

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=219, 23=141, 15=247.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 11, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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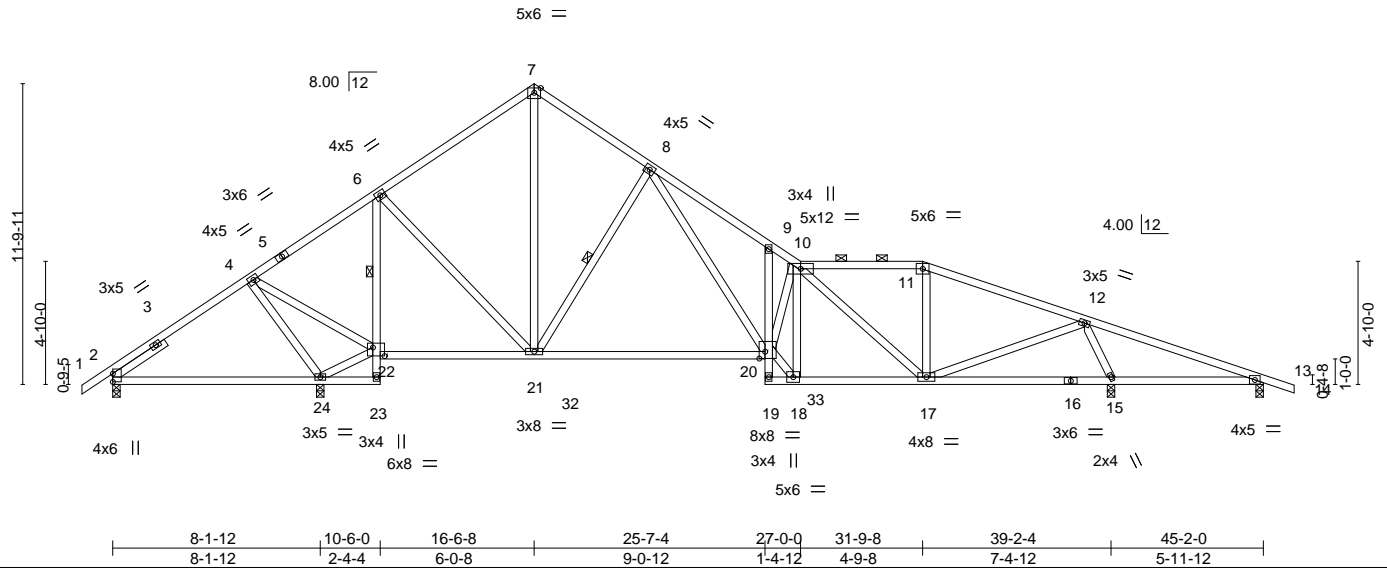
Job B-73554	Truss T22	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627551
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Structural Building Components, LLC, Albemarle, NC - 28001,

8,320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:06 2019 Page 1
ID:3D0p8_T8DUctKIX_OlqplyUu2D-llnab2HhqiCeLYz2ozHAjSy0vLF2kM4ZipQyUkj

1-2-8	5-4-12	10-6-0	16-6-8	21-0-14	25-7-4	27-0-0	31-9-8	38-1-12	45-2-0	46-4-8
1-2-8	5-4-12	5-1-4	6-0-8	4-6-6	4-6-6	1-4-12	4-9-8	6-4-3	7-0-5	1-2-8

Scale = 1:90.4



Job B-73554	Truss T23	Truss Type Roof Special	Qty 1	Ply 1	Barton	E13627552
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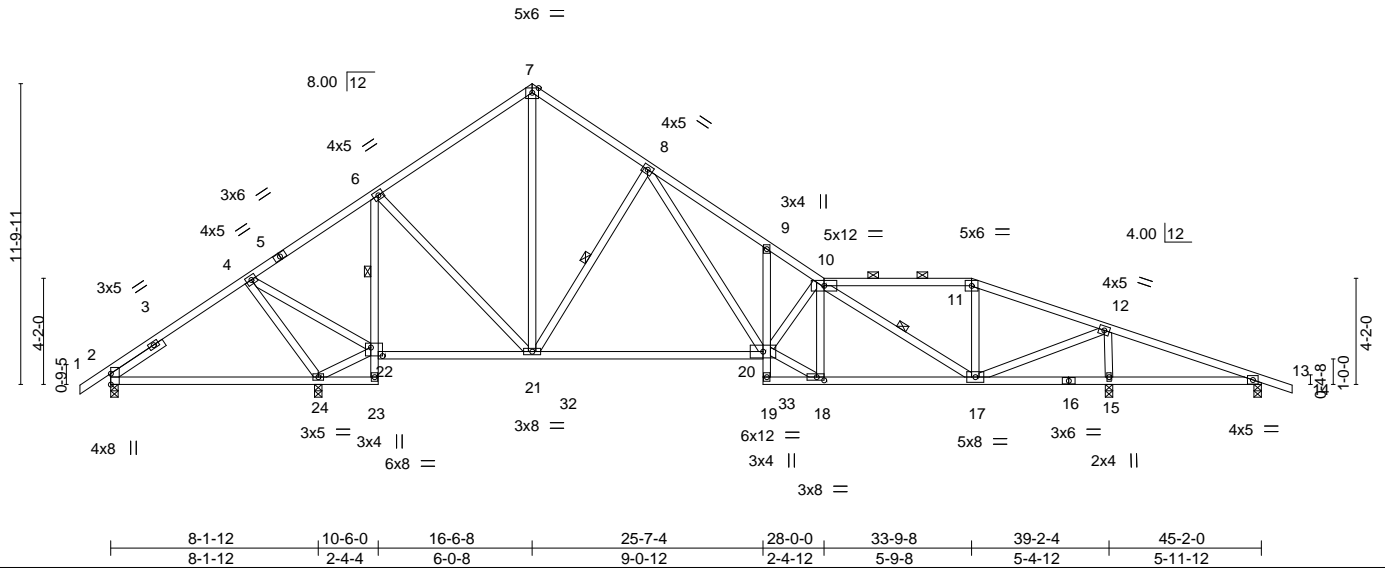
Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:07 2019 Page 1

ID:3DOP8_T8JDUCtKIX_OlqplyUu2D-mxP9ox2wS8r9powkXea1WUjwjMMC4jJuakJFMsyUkij

1-2-8	5-4-12	10-6-0	16-6-8	21-0-14	25-7-4	28-0-0	33-9-8	39-1-12	45-2-0	46-4-8
1-2-8	5-4-12	5-1-4	6-0-8	4-6-6	4-6-6	2-4-12	5-9-8	5-4-3	6-0-5	1-2-8

Scale = 1:90.4



Job B-73554	Truss T26	Truss Type Common	Qty 4	Ply 1	Barton	E13627555
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:11 2019 Page 1
ID:3D0p8_T8JDuctKIX_OlqplyUu2D-eiegdJ5QWNlBIPEVmUezgKthAzh70c1UVMHTVeyUkJE



4x5 =

Scale = 1:72.8

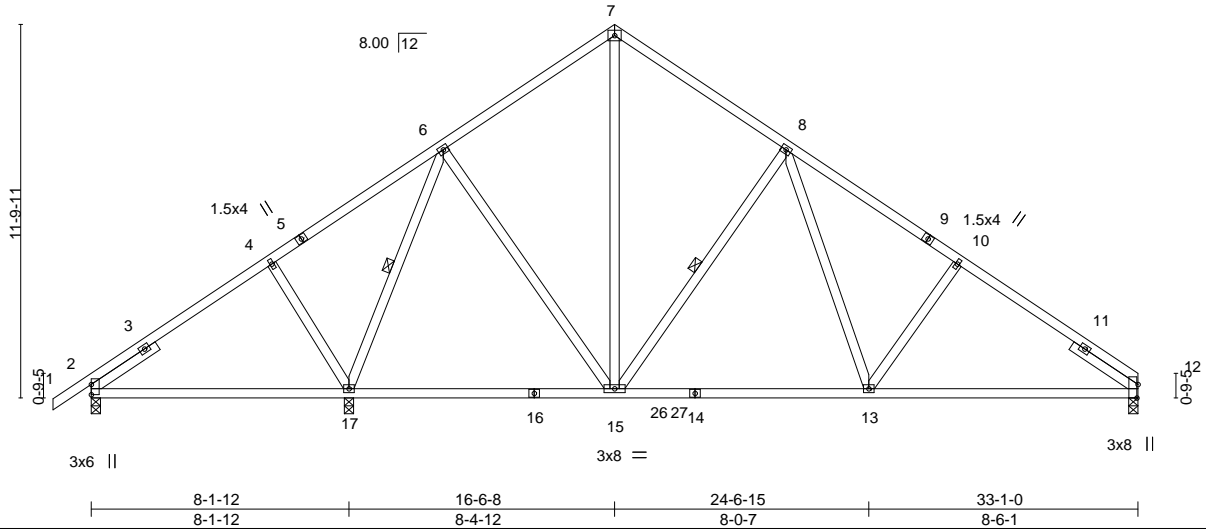


Plate Offsets (X,Y)-- [12:0-5-2,Edge]

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 0.38	Vert(LL)	-0.19 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.10 17-20	>986	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 201 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 -H 2-6-0, Right 2x4 SP No.3 -H 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-17.
 WEBS 1 Row at midpt 6-17, 8-15

REACTIONS.

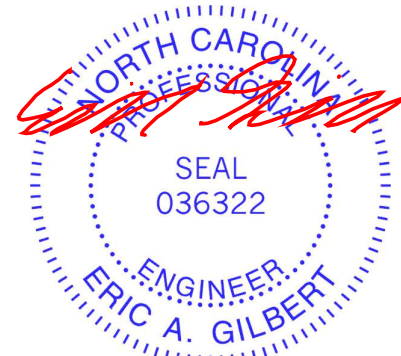
(lb/size) 2=395/0-3-8, 17=1329/0-3-8, 12=995/0-3-8
 Max Horz 2=244(LC 7)
 Max Uplift 2=-54(LC 10), 17=-126(LC 10), 12=-111(LC 11)
 Max Grav 2=441(LC 21), 17=1628(LC 17), 12=1058(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-437/102, 6-7=-795/243, 7-8=-770/244, 8-10=-1319/255, 10-12=-1427/226
 BOT CHORD 2-17=-165/282, 15-17=-75/434, 13-15=-12/886, 12-13=-113/1124
 WEBS 4-17=-313/175, 6-17=-1153/136, 6-15=-13/490, 7-15=-152/528, 8-15=-619/223,
 8-13=-64/490

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2, 126 lb uplift at joint 17 and 111 lb uplift at joint 12.



October 11, 2019

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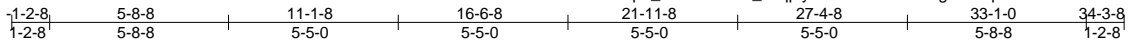


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Job B-73554	Truss T27	Truss Type Common	Qty 2	Ply 1	Barton	E13627556
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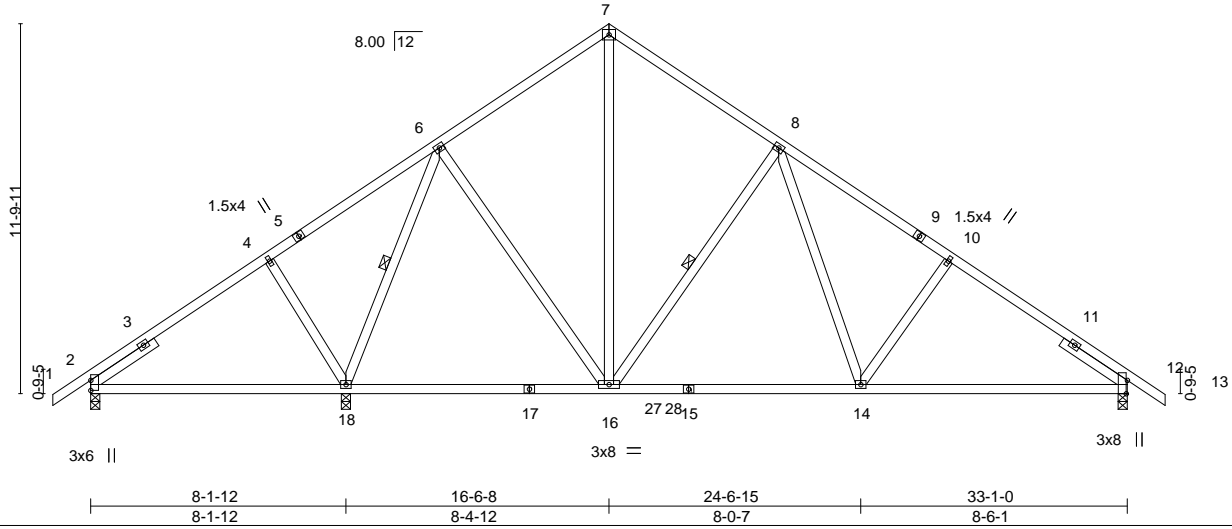
Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:12 2019 Page 1
ID:3DOP8_T8JDUctKIX_OIqplyUu2D-7vC2rf62HgTSwZphJB9CDYQssN1M2Gdk00014yUkjD



4x5 =

Scale = 1:73.5



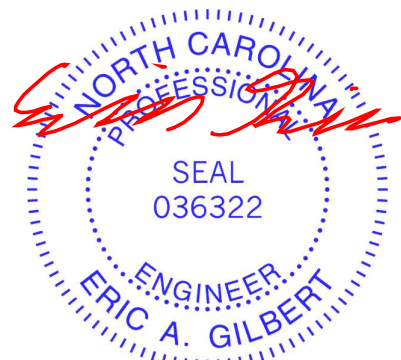
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.19 16-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.10 18-21 >983 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 203 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	WEBS 6-0-0 oc bracing: 2-18.
SLIDER Left 2x4 SP No.3 -H 2-6-0, Right 2x4 SP No.3 -H 2-6-0	WEBS 1 Row at midpt 6-18, 8-16

REACTIONS. (lb/size) 2=390/0-3-8, 18=1334/0-3-8, 12=1067/0-3-8
 Max Horz 2=-249(LC 8)
 Max Uplift 2=-56(LC 10), 18=-123(LC 10), 12=-135(LC 11)
 Max Grav 2=439(LC 21), 18=1633(LC 17), 12=1125(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-437/108, 6-7=-792/245, 7-8=-767/246, 8-10=-1309/253, 10-12=-1418/224
 BOT CHORD 2-18=-161/290, 16-18=-70/437, 14-16=0/890, 12-14=-72/1110
 WEBS 4-18=-313/175, 6-18=-1157/129, 6-16=-12/491, 7-16=-154/524, 8-16=-616/222,
 8-14=-61/483

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
 - All plates are 3x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2, 123 lb uplift at joint 18 and 135 lb uplift at joint 12.



October 11, 2019

Job B-73554	Truss T28	Truss Type Roof Special Girder	Qty 1	Ply 1	Barton	E13627557
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Structural Building Components, LLC, Albemarle, NC - 28001,

8.320 s Aug 28 2019 MiTek Industries, Inc. Thu Oct 10 18:03:13 2019 Page 1
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Scale = 1:18.9

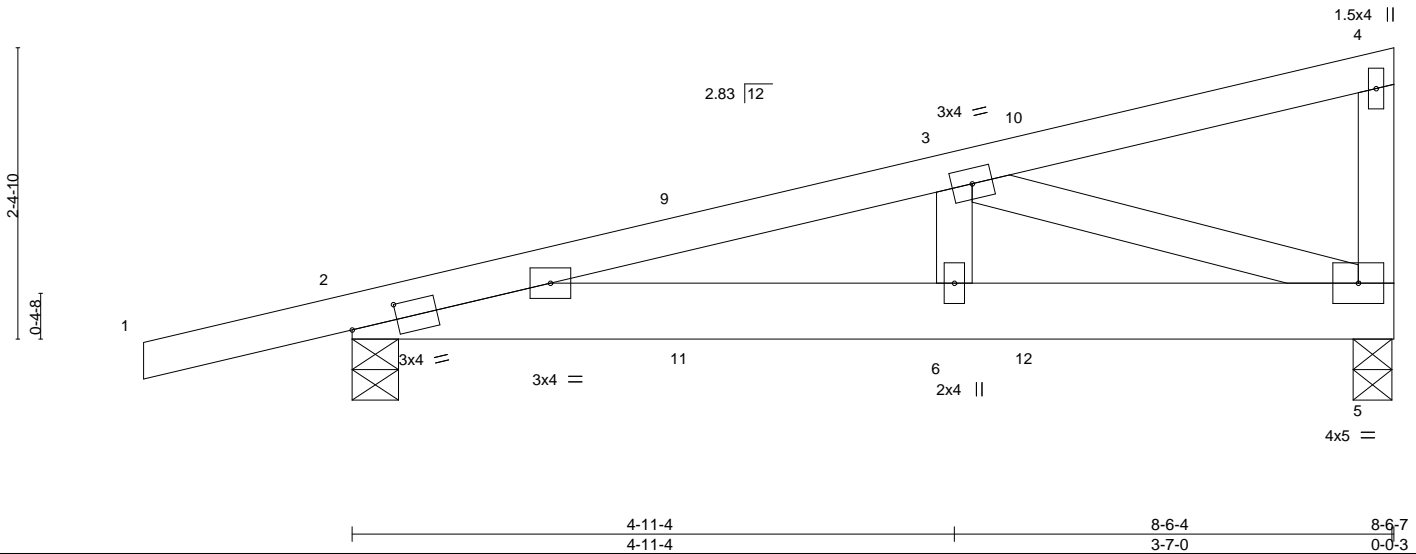


Plate Offsets (X,Y)--	[2:0-4-8,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.02 6-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.04 6-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.22	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

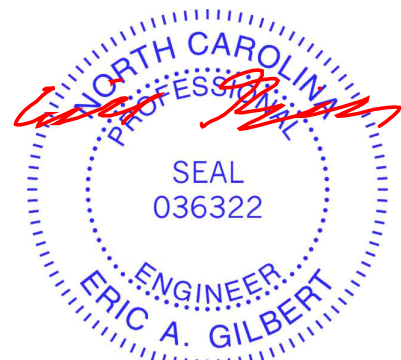
REACTIONS. (lb/size) 2=470/0-4-9, 5=694/0-3-13
Max Horz 2=75(LC 5)
Max Uplift 2=-115(LC 4), 5=-95(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-734/89, 4-5=-295/133
BOT CHORD 2-6=-93/703, 5-6=-93/703
WEBS 3-5=-741/115

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2 and 95 lb uplift at joint 5.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 10 lb up at 2-9-8, 11 lb down and 10 lb up at 2-9-8, 37 lb down and 42 lb up at 5-7-7, 37 lb down and 42 lb up at 5-7-7, and 99 lb down and 66 lb up at 8-4-11, and 111 lb down and 66 lb up at 8-4-11 on top chord, and 4 lb down at 2-9-8, 4 lb down at 2-9-8, 21 lb down at 5-7-7, 21 lb down at 5-7-7, and 72 lb down at 8-4-11, and 80 lb down at 8-4-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 4=-210(F=-99, B=-111) 5=-118(F=-57, B=-61) 10=-20(F=-10, B=-10) 11=-3(F=-2, B=-2) 12=-39(F=-19, B=-19)



October 11, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

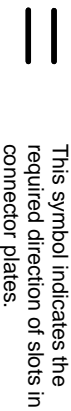
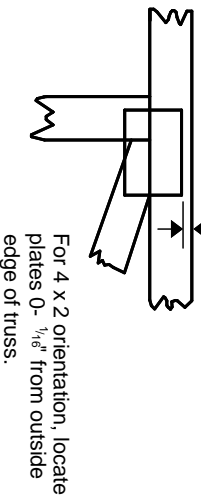
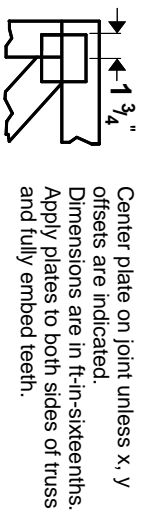
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

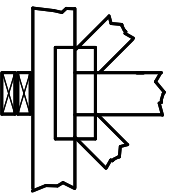
4 X 4

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

LATERAL BRACING LOCATION



BEARING

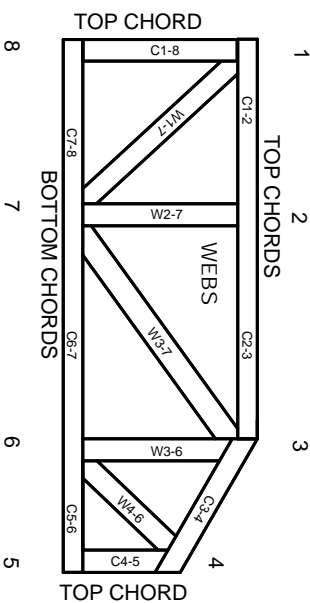


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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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.