

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 140_1445_B
140.1445.B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I40377033 thru I40377058

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

North Carolina COA: C-0844



February 26, 2020

Sevier, Scott

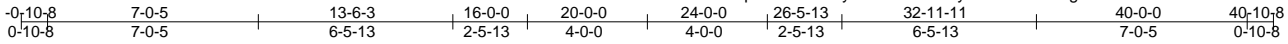
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job 140_1445_B	Truss A1	Truss Type ROOF TRUSS	Qty 4	Ply 1	140.1445.B	140377033
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84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:50 2020 Page 1

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Scale = 1:76.8

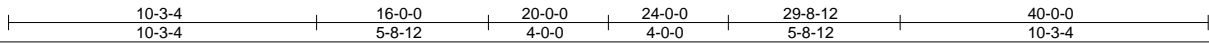
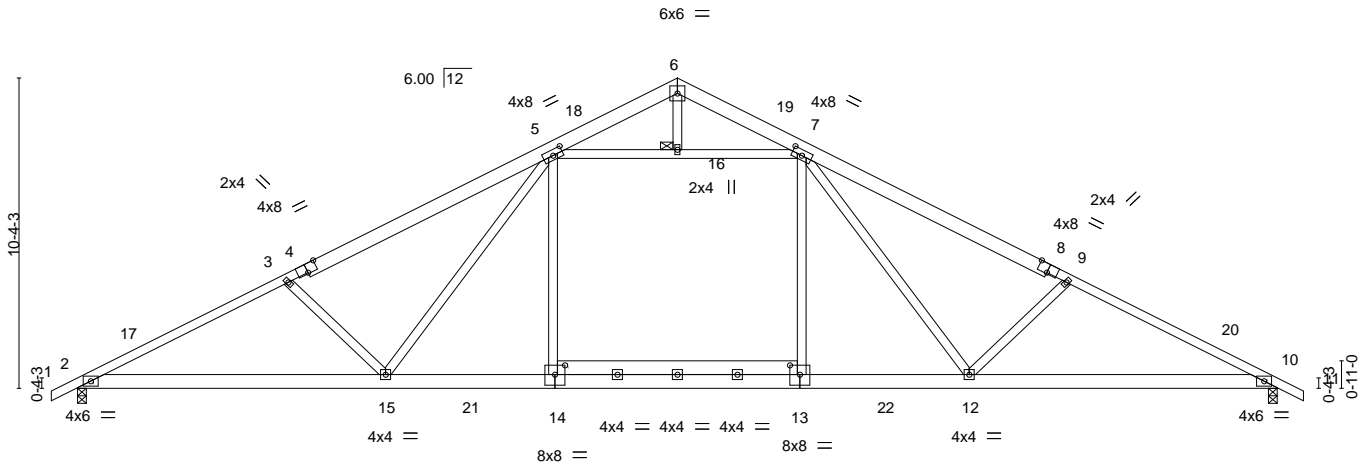


Plate Offsets (X, Y)--	[4:0-4-0,Edge], [5:0-4-0,0-2-4], [7:0-4-0,0-2-4], [8:0-4-0,Edge], [13:0-4-0,0-3-12], [14:0-4-0,0-3-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.31 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.44 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.11 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.21 13-14	459	360		
								Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,8-11: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=173(LC 12)
 Max Uplift 2=184(LC 12), 10=184(LC 13)
 Max Grav 2=1811(LC 2), 10=1811(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3458/341, 3-5=-3201/301, 5-6=-490/60, 6-7=-490/60, 7-9=-3201/302, 9-10=-3458/342
 BOT CHORD 2-15=-382/3027, 14-15=-78/2555, 13-14=-76/2556, 12-13=-79/2555, 10-12=-210/3027
 WEBS 6-16=0/276, 7-12=-195/716, 9-12=-458/280, 5-15=-186/716, 3-15=-458/280, 5-14=-58/718, 5-16=-2184/285, 7-16=-2184/285, 7-13=-58/718

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 5-16, 7-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

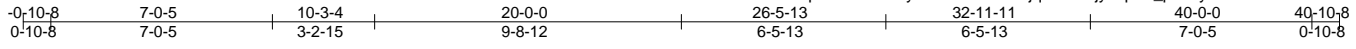


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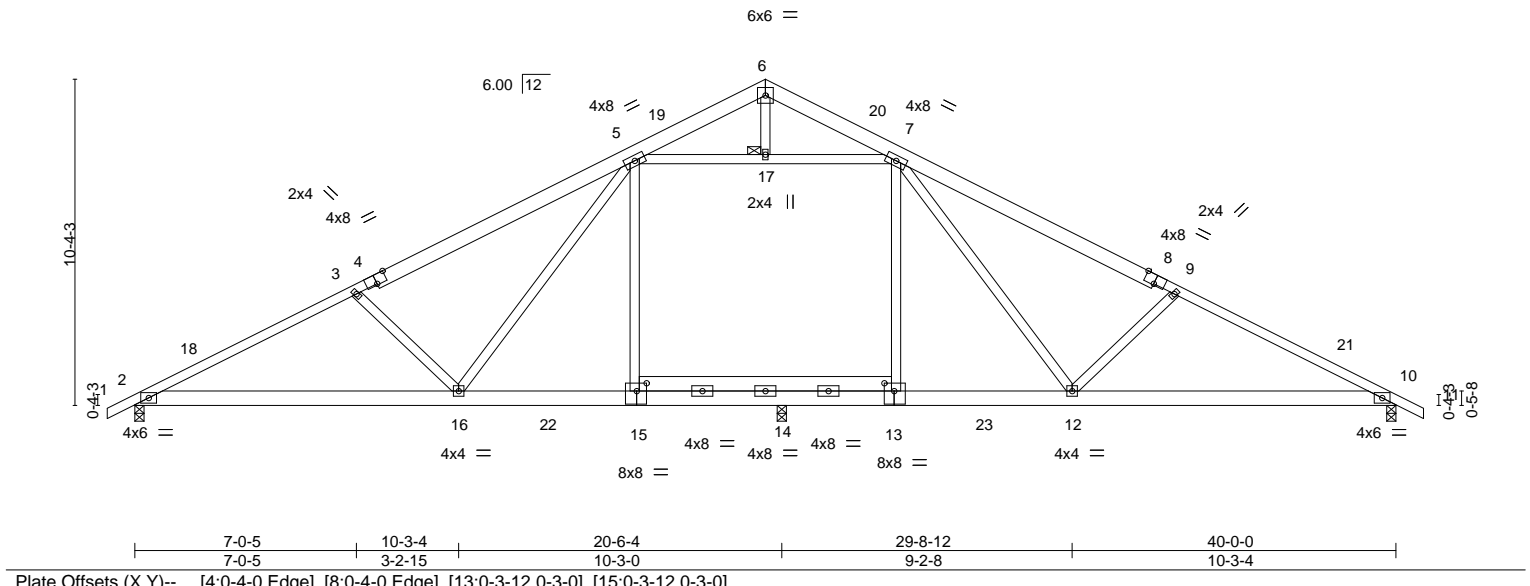
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377034
140_1445_B	A1A	Common	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:52 2020 Page 1
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-nWLjqmBJkXjyapXJ_peekywdGmAuatasiGY8szheel



Scale = 1:73.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.26	15-16	>943	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.36	15-16	>673		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.03	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,8-11: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 2-15,10-13: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-4-11 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 14=0-3-8
 Max Horz 2=-173(LC 17)
 Max Uplift 2=-200(LC 12), 10=-149(LC 13), 14=-117(LC 13)
 Max Grav 2=1079(LC 1), 10=1049(LC 1), 14=1171(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1803/375, 3-5=-1478/336, 6-7=-254/86, 7-9=-1394/245, 9-10=-1708/264
 BOT CHORD 2-16=-412/1538, 15-16=-107/810, 14-15=-105/805, 13-14=-105/805, 12-13=-109/812,
 10-12=-140/1450
 WEBS 3-16=-465/276, 5-16=-190/890, 9-12=-455/276, 7-13=-700/278, 7-12=-209/847,
 5-15=-558/211, 5-17=-627/271, 7-17=-627/271

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 14. This connection is for uplift only and does not consider lateral forces.

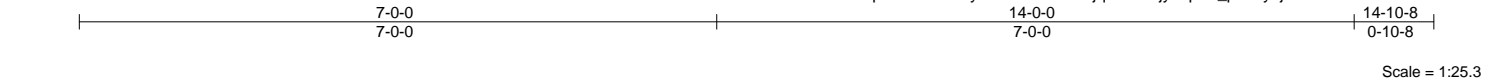


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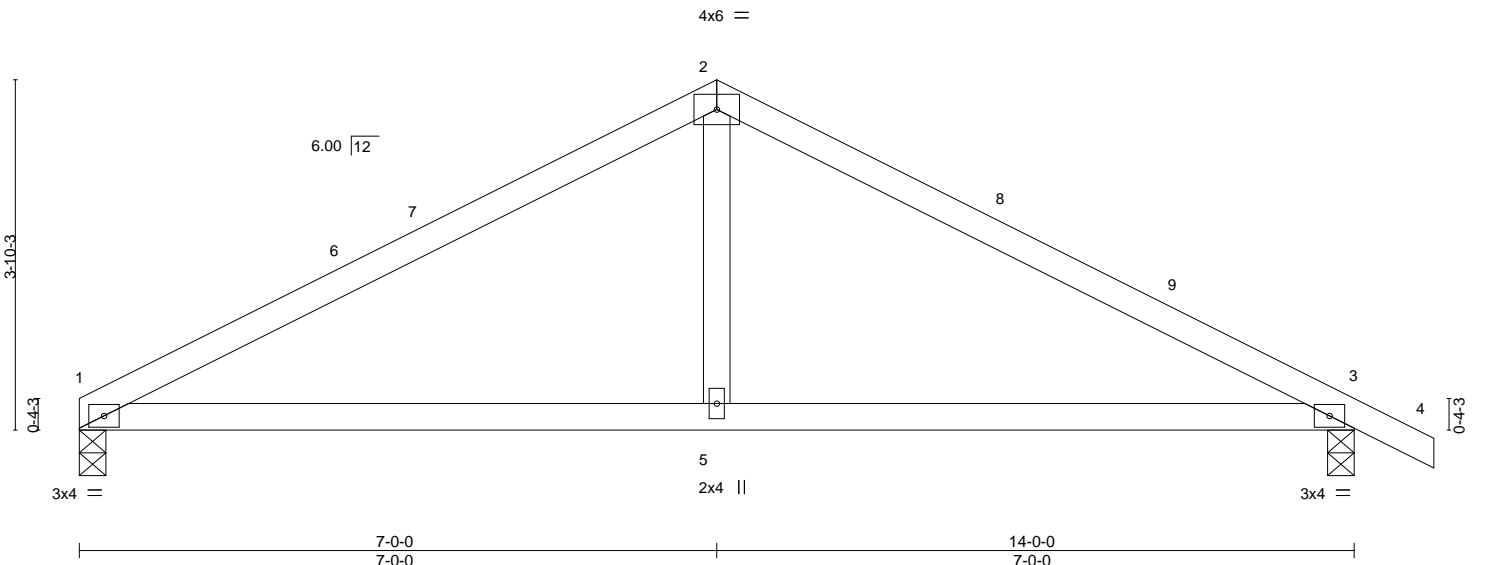
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377035
140_1445_B	B1	Common	2	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:52 2020 Page 1
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Scale = 1:25.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.05	1-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.12	1-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 51 lb	FT = 20%

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

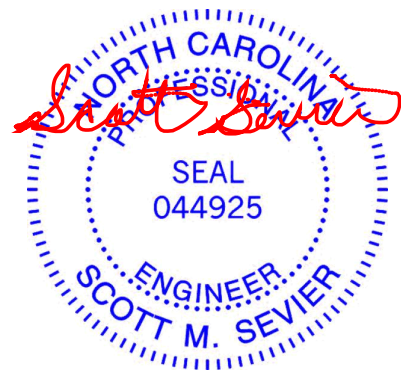
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-72(LC 13)
 Max Uplift 1=-64(LC 12), 3=-87(LC 13)
 Max Grav 1=546(LC 1), 3=612(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-781/140, 2-3=-783/131
 BOT CHORD 1-5=-27/616, 3-5=-27/616
 WEBS 2-5=0/336

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-0-0, Exterior(2) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



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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/TP1 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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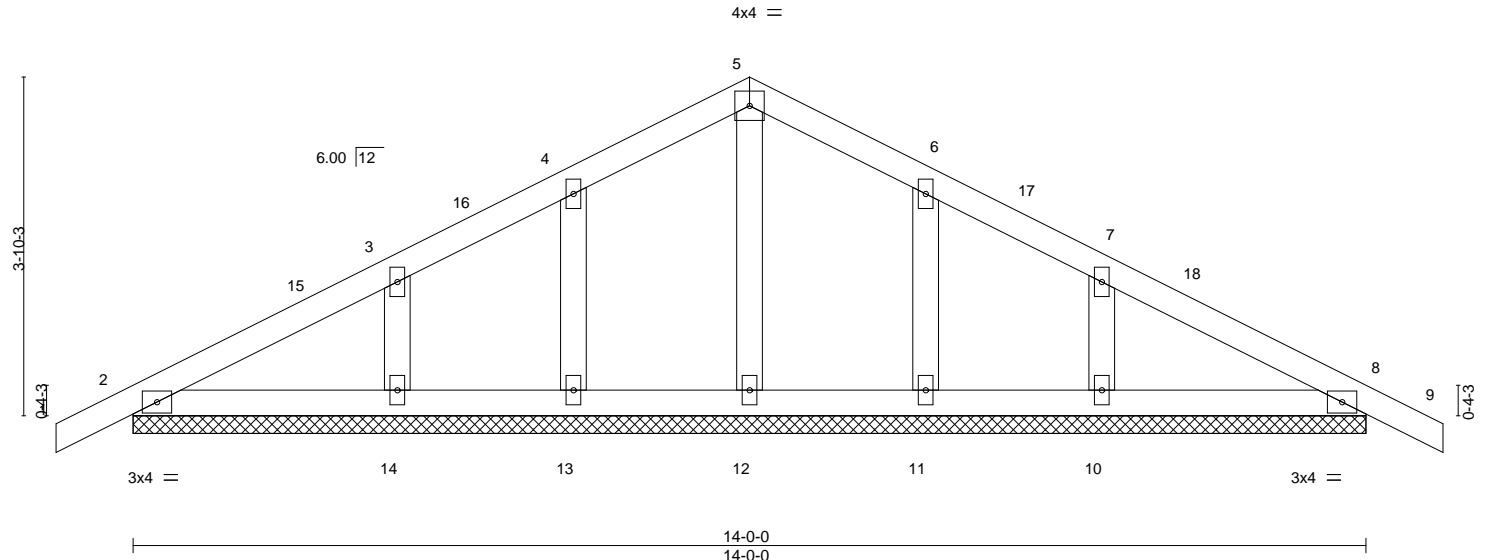
818 Soundside Road
 Edenton, NC 27932

Job 140_1445_B	Truss BE	Truss Type Common Supported Gable	Qty 1	Ply 1	140.1445.B	140377036
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:53 2020 Page 1
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Scale = 1:26.2



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 0.09	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 63 lb	FT = 20%

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

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

REACTIONS. All bearings 14-0-0.
 (lb) - Max Horz 2=66(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.



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Job 140_1445_B	Truss CJ1	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	140.1445.B	140377037
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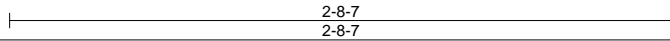
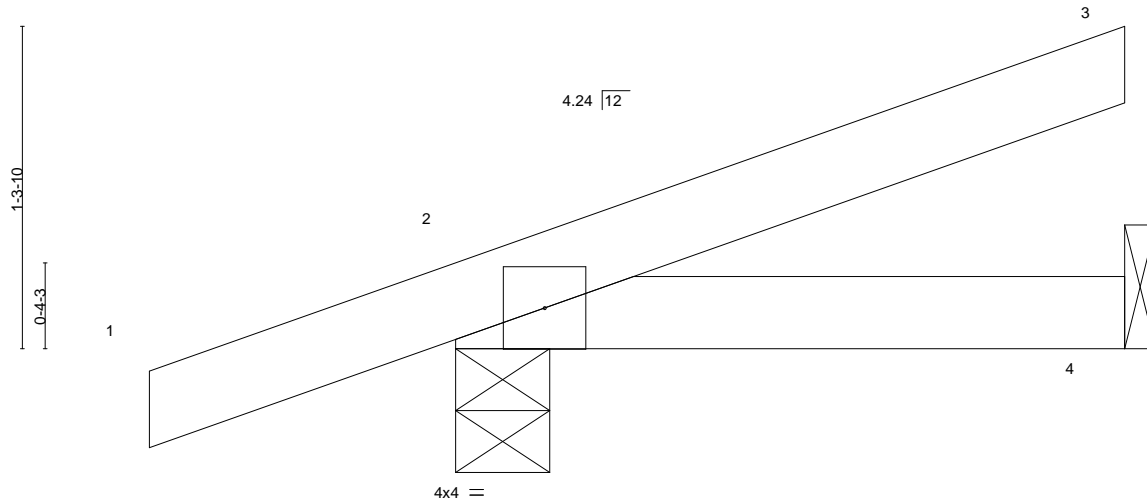
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:54 2020 Page 1

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Scale = 1:9.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.01	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 10 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 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 4=Mechanical
Max Horz 2=72(LC 8)
Max Uplift 2=-97(LC 8), 4=-29(LC 8)
Max Grav 2=209(LC 1), 4=77(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.



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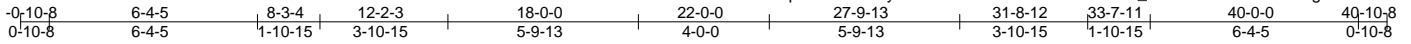


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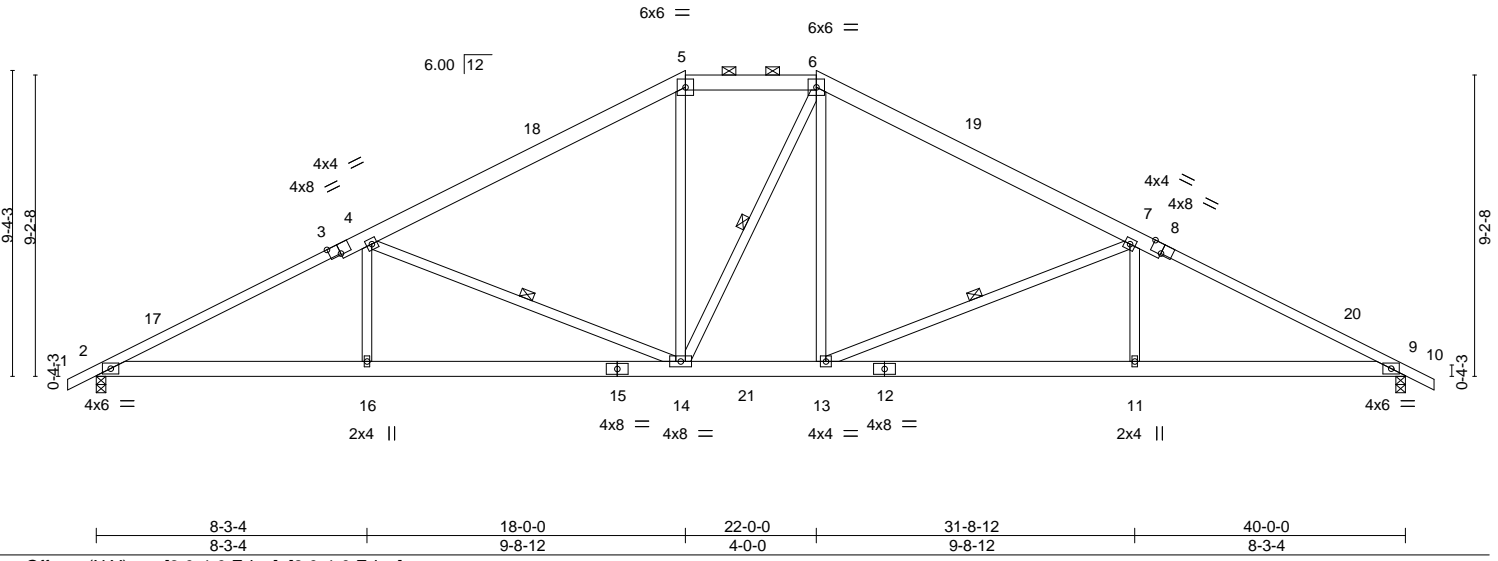
Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377038
140_1445_B	H1	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:55 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-B51rToDB1S5XRPY6_7NLGYaOJUof5?m0YgUCIBzheel



Scale = 1:70.4



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 0.96	Vert(LL)	-0.13 11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.31 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.11 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 265 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,8-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-2-11 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 6-14, 7-13

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=-155(LC 17)
 Max Uplift 2=-196(LC 12), 9=-196(LC 13)
 Max Grav 2=1650(LC 1), 9=1650(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3075/379, 4-5=-2160/357, 5-6=-1808/381, 6-7=-2157/357, 7-9=-3077/379
 BOT CHORD 2-16=-341/2671, 14-16=-341/2671, 13-14=-76/1805, 11-13=-248/2673, 9-11=-248/2673
 WEBS 4-16=0/393, 4-14=-935/301, 5-14=-39/533, 6-13=-35/530, 7-13=-938/302, 7-11=0/396

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

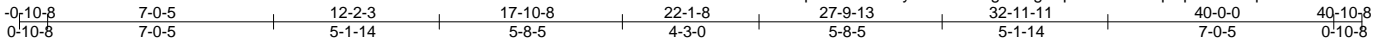
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377039
140_1445_B	H1A	ROOF TRUSS	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:56 2020 Page 1

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Scale = 1:71.7

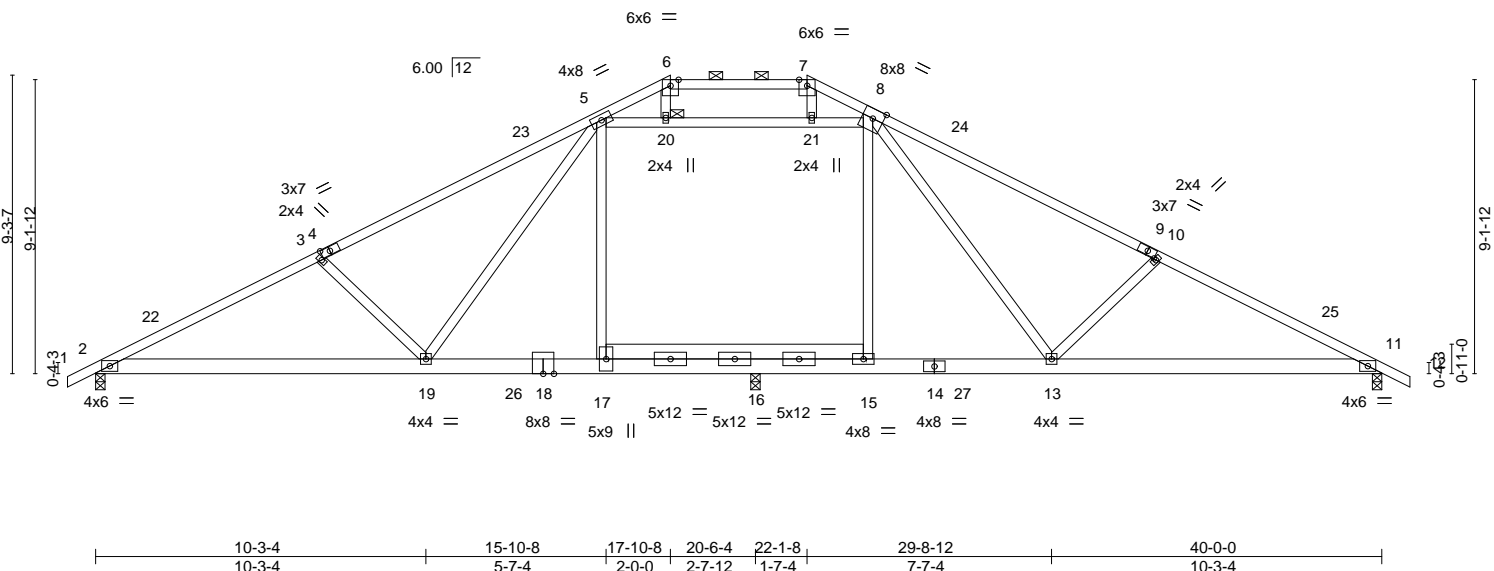


Plate Offsets (X,Y)--	[4:0-3-6,0-1-8], [9:0-3-6,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	BC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.33 17-19 >730 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.47 17-19 >515 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.29 16-17 397 360	Weight: 259 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (6-0-0 max.): 6-7.
14-18: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 20

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 16=0-3-8
 Max Horz 2=155(LC 16)
 Max Uplift 2=-178(LC 12), 11=-130(LC 13), 16=-78(LC 13)
 Max Grav 2=1086(LC 24), 11=1023(LC 1), 16=1622(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1853/341, 3-5=-1563/300, 5-6=-454/80, 6-7=-341/69, 7-8=-441/98,
 8-10=-1376/253, 10-11=-1670/266
 BOT CHORD 2-19=-369/1591, 17-19=-46/830, 16-17=-52/866, 15-16=-43/868, 13-15=-46/830,
 11-13=-136/1426
 WEBS 3-19=-490/289, 5-19=-211/987, 8-13=-216/878, 10-13=-490/293, 8-15=-798/264,
 5-17=-726/215, 5-20=-498/265, 20-21=-503/264, 8-21=-501/266

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 17-10-8, Exterior(2) 17-10-8 to 26-4-7, Interior(1) 26-4-7 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 5-20, 20-21, 8-21
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-17, 15-16
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 16. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



February 26, 2020

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

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

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

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377040
140_1445_B	H2	Hip	1	1		

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:57 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-8T8cuTFSY3LFgjiU6XPPzLzfiLHPpZyMJ0_zJp3zheeG

-0-10-8	7-9-4	16-0-0	24-0-0	32-2-12	40-0-0	40-10-8
0-10-8	7-9-4	8-2-12	8-0-0	8-2-12	7-9-4	0-10-8

Scale = 1:70.7

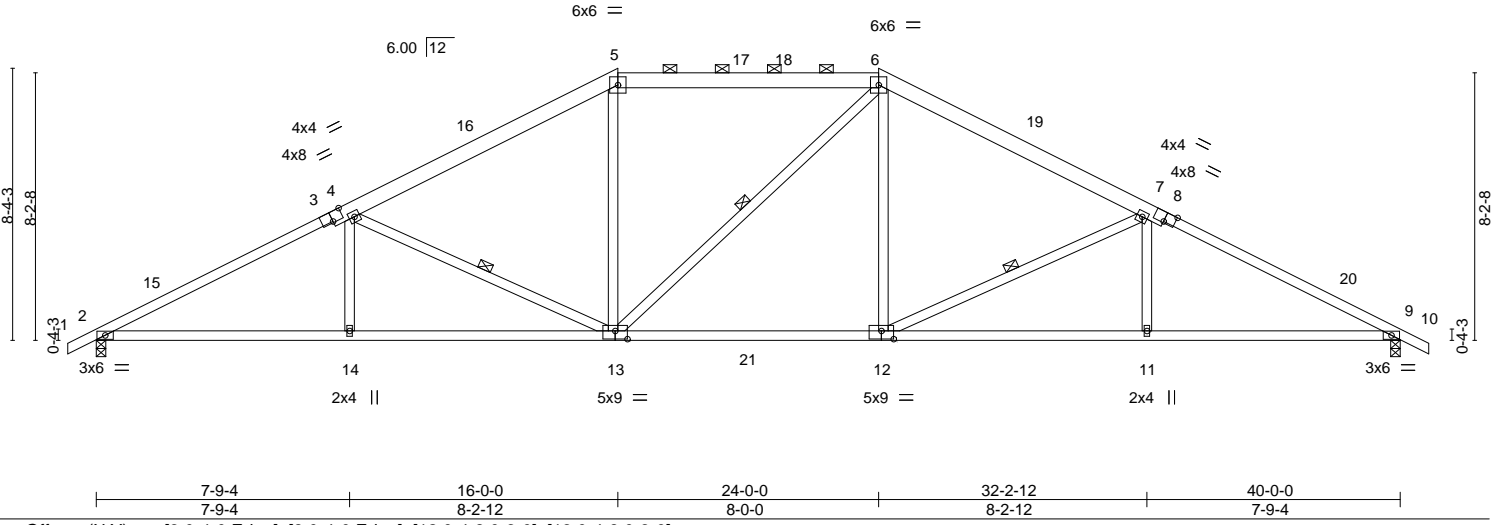


Plate Offsets (X,Y)--	[3:0-4-0,Edge], [8:0-4-0,Edge], [12:0-4-8,0-3-0], [13:0-4-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.23	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.45	12-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.16	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,8-10: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-7-12 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	2-2-0 oc bracing: 11-12. WEBS 1 Row at midpt 4-13, 6-13, 7-12

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=138(LC 12)
 Max Uplift 2=-180(LC 12), 9=-180(LC 13)
 Max Grav 2=1650(LC 1), 9=1650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3018/396, 4-5=-2294/372, 5-6=-1955/392, 6-7=-2293/372, 7-9=-3019/396
 BOT CHORD 2-14=-297/2631, 13-14=-297/2631, 12-13=-117/1954, 11-12=-264/2631, 9-11=-264/2631
 WEBS 4-14=0/338, 4-13=-750/265, 5-13=0/556, 6-12=-14/557, 7-12=-752/265, 7-11=0/338

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



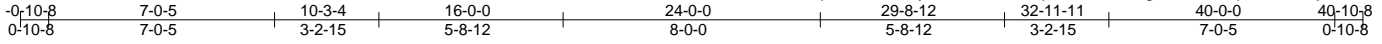
February 26, 2020

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377041
140_1445_B	H2A	ROOF TRUSS	1	1		

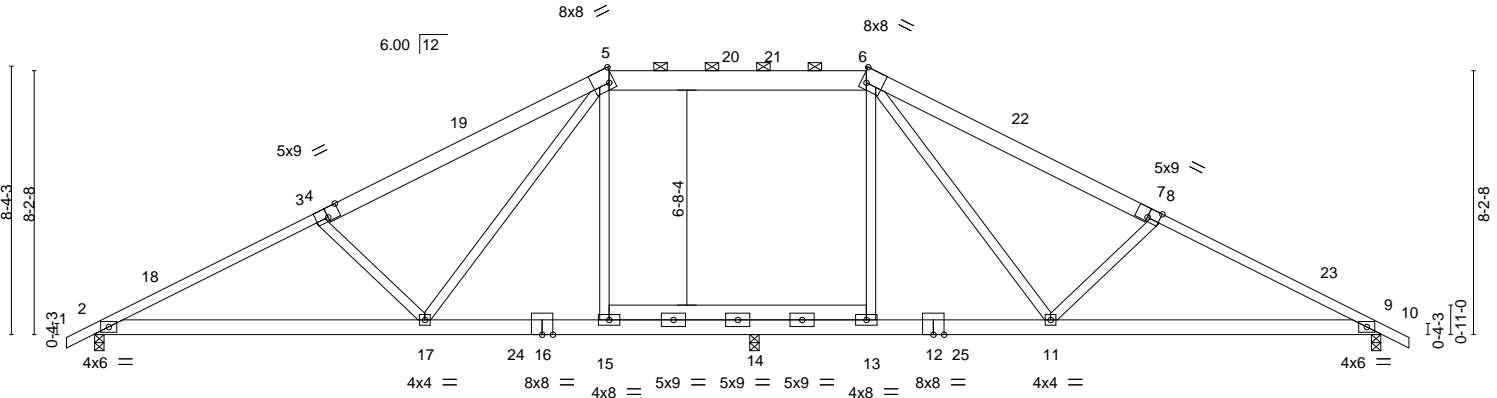
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 08:59:58 2020 Page 1

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Scale = 1:71.7



	10-3-4	16-0-0	20-6-4	24-0-0	29-8-12	40-0-0
	10-3-4	5-8-12	4-6-4	3-5-12	5-8-12	10-3-4
Plate Offsets (X, Y)--	[3:0-1-14,0-0-0], [4:0-4-8,Edge], [4:0-0-0,0-1-12], [5:0-2-0,Edge], [6:0-2-0,Edge], [7:0-4-8,Edge], [7:0-0-0,0-1-12], [8:0-1-14,0-0-0]					

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 0.94	Vert(LL)	-0.26	15-17	>959	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.37	15-17	>666		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Attic	-0.22	14-15	509	360	
								Weight: 272 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 5-6: 2x8 SP No.2, 1-4,7-10: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2 *Except* 12-16: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-1 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 14=0-3-8
 Max Horz 2=138(LC 12)
 Max Uplift 2=-174(LC 12), 9=-139(LC 13), 14=-34(LC 13)
 Max Grav 2=1112(LC 24), 9=1059(LC 1), 14=1547(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1888/319, 3-5=-1608/286, 5-6=-863/278, 6-8=-1458/268, 8-9=-1739/282
 BOT CHORD 2-17=-330/1619, 15-17=-36/881, 14-15=-40/923, 13-14=-35/925, 11-13=-39/884, 9-11=-163/1482
 WEBS 5-17=-184/916, 5-15=-628/160, 6-13=-719/201, 6-11=-195/841, 3-17=-466/288, 8-11=-461/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 5-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 9, and 14. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



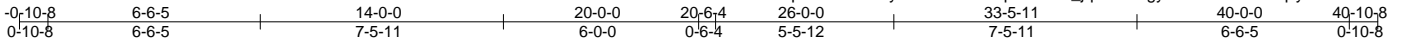
February 26, 2020

<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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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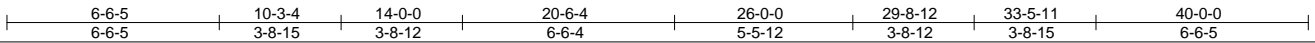
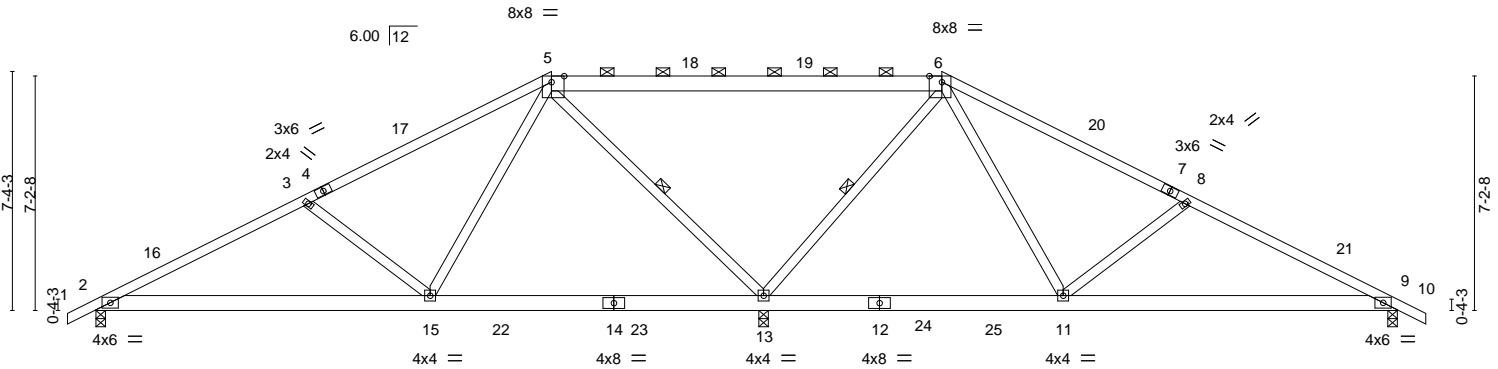
Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377043
140_1445_B	H3A	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:00 2020 Page 1

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Scale = 1:70.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	BC 0.60	Vert(LL)	-0.08 9-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	TC 0.44	Vert(CT)	-0.18 9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 234 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-13: 2x4 SP No.2	WEBS 1 Row at midpt 5-13, 6-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 2=122(LC 12)
 Max Uplift 2=-119(LC 12), 13=-88(LC 12), 9=-134(LC 13)
 Max Grav 2=685(LC 23), 13=2102(LC 1), 9=634(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-940/198, 3-5=-594/130, 5-6=-6/845, 6-8=-474/162, 8-9=-822/233
 BOT CHORD 2-15=-213/777, 9-11=-122/671
 WEBS 5-15=-44/630, 5-13=-1292/260, 6-11=-53/599, 3-15=-436/269, 8-11=-439/268,
 6-13=-1253/261

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



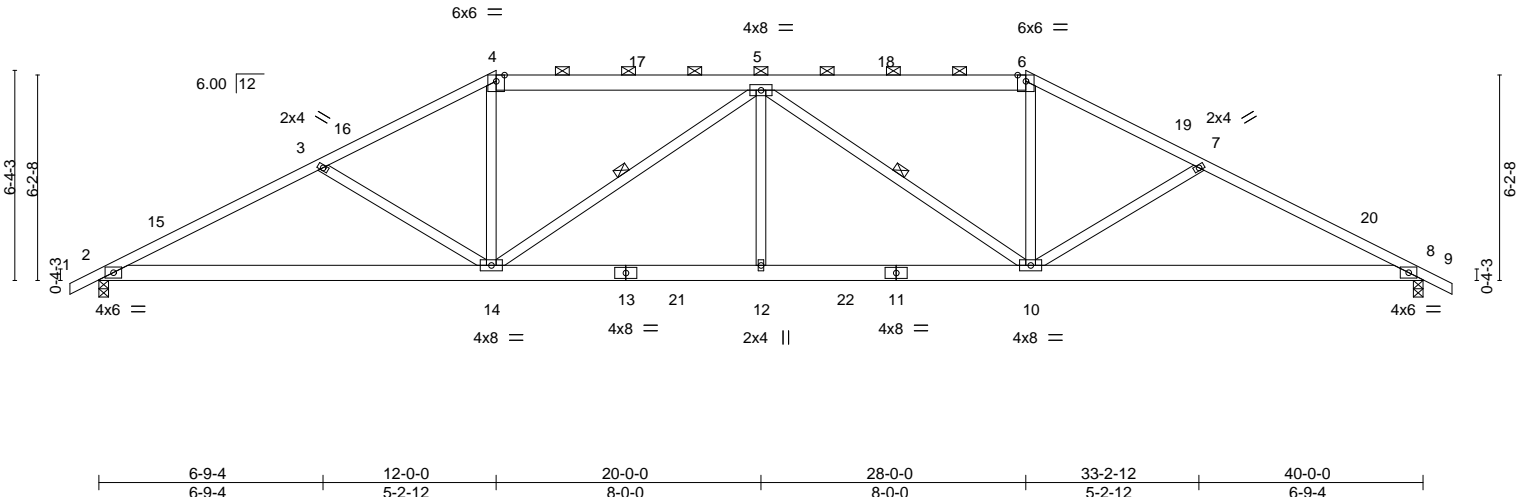
February 26, 2020

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377044
140_1445_B	H4	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:01 2020 Page 1
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-0EO6jrlyclrh9K?FLNUIWppqV6uppVkmVxcxWyqzheeC

-0-10-8	6-9-4	12-0-0	20-0-0	28-0-0	33-2-12	40-0-0	40-10-8
0-10-8	6-9-4	5-2-12	8-0-0	8-0-0	5-2-12	6-9-4	0-10-8

Scale = 1:69.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.18 2-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.41 2-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 244 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-10 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-5-4 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 5-14, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=106(LC 12)
 Max Uplift 2=142(LC 12), 8=142(LC 13)
 Max Grav 2=1650(LC 1), 8=1650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3010/467, 3-4=-2649/396, 4-5=-2300/394, 5-6=-2300/394, 6-7=-2649/396, 7-8=-3010/467
 BOT CHORD 2-14=-333/2617, 12-14=-266/2806, 10-12=-266/2806, 8-10=-341/2617
 WEBS 3-14=-358/239, 4-14=-29/800, 5-14=-758/211, 5-12=0/301, 5-10=-758/211, 6-10=-29/800, 7-10=-358/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



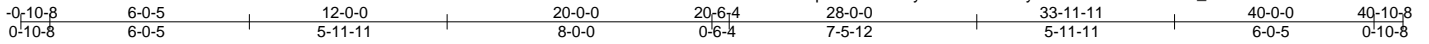
February 26, 2020

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377045
140_1445_B	H4A	Hip	1	1		
						Job Reference (optional)

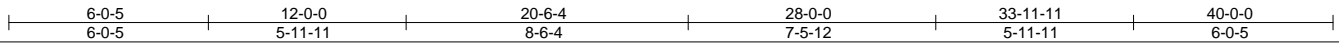
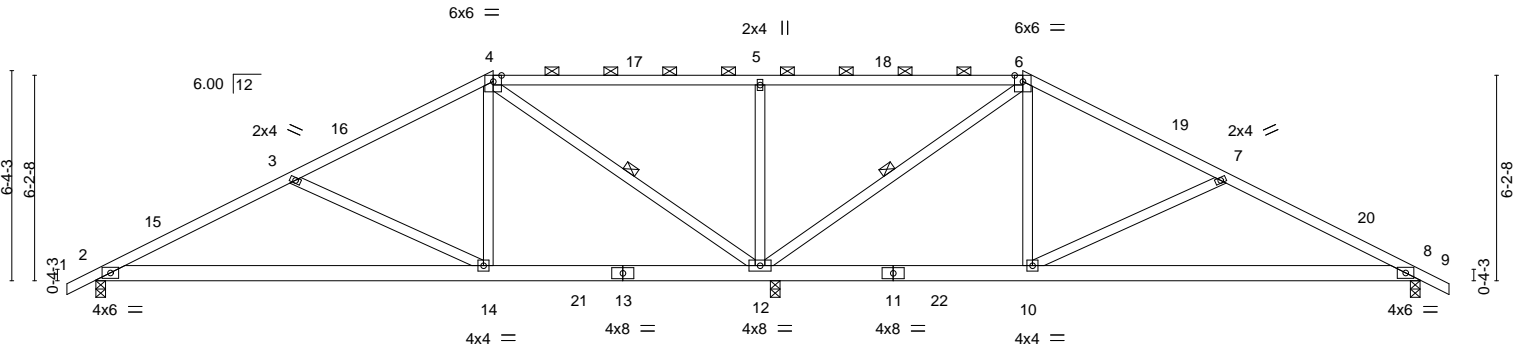
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:02 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-URyVxBJaNbzYmUaSv5?_20MfiICSE9r29Gh3UHzeeB



Scale = 1:69.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.15	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.31	8-10	>760		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 232 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 4-6: 2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 8=0-3-8
 Max Horz 2=106(LC 16)
 Max Uplift 2=-105(LC 12), 12=-169(LC 9), 8=-117(LC 13)
 Max Grav 2=714(LC 23), 12=1945(LC 1), 8=708(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-985/187, 3-4=-557/78, 4-5=-3/526, 5-6=-3/526, 6-7=-543/84, 7-8=-956/213
 BOT CHORD 2-14=-190/823, 12-14=0/432, 10-12=0/398, 8-10=-107/811
 WEBS 3-14=-446/263, 4-14=0/547, 4-12=-1076/143, 5-12=-555/250, 6-12=-1066/143, 6-10=0/545, 7-10=-448/263

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



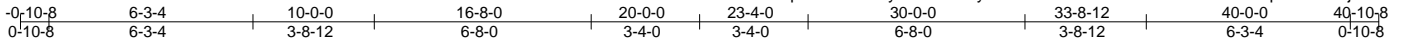
818 Soundside Road
 Edenton, NC 27932

Job 140_1445_B	Truss H5	Truss Type Hip	Qty 1	Ply 1	140.1445.B	140377046
					Job Reference (optional)	

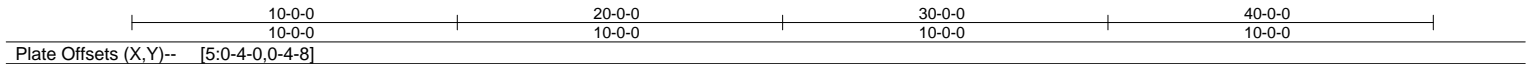
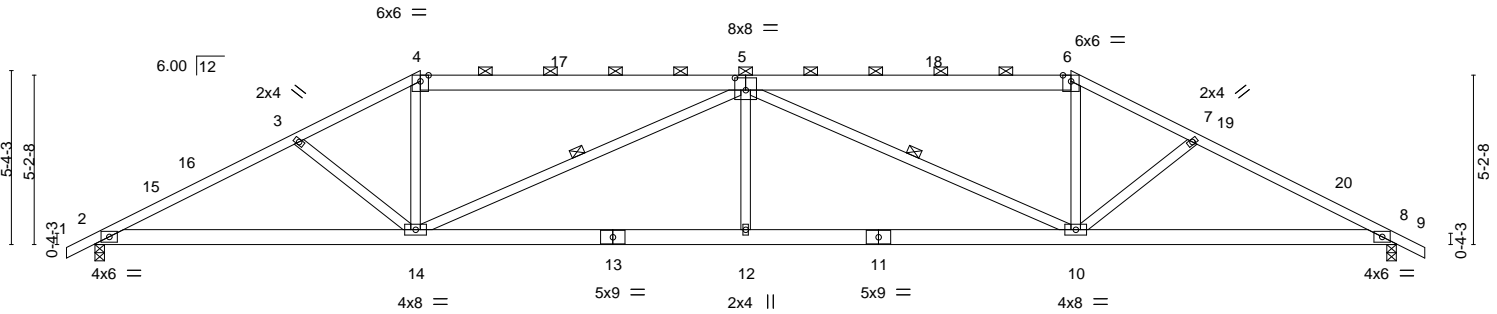
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:03 2020 Page 1

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Scale = 1:70.8



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 0.65	Vert(LL)	-0.22	12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.44	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.13	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-5,5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except 2-0-0 oc purlins (3-8-15 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 5-10

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=89(LC 16)
 Max Uplift 2=-131(LC 9), 8=-131(LC 8)
 Max Grav 2=1650(LC 1), 8=1650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3059/462, 3-4=-2806/419, 4-5=-2469/405, 5-6=-2469/405, 6-7=-2806/419, 7-8=-3059/462
 BOT CHORD 2-14=-332/2659, 12-14=-408/3466, 10-12=-408/3466, 8-10=-339/2659
 WEBS 4-14=-37/843, 5-14=-1217/283, 5-10=-1217/283, 6-10=-37/843, 5-12=0/385

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

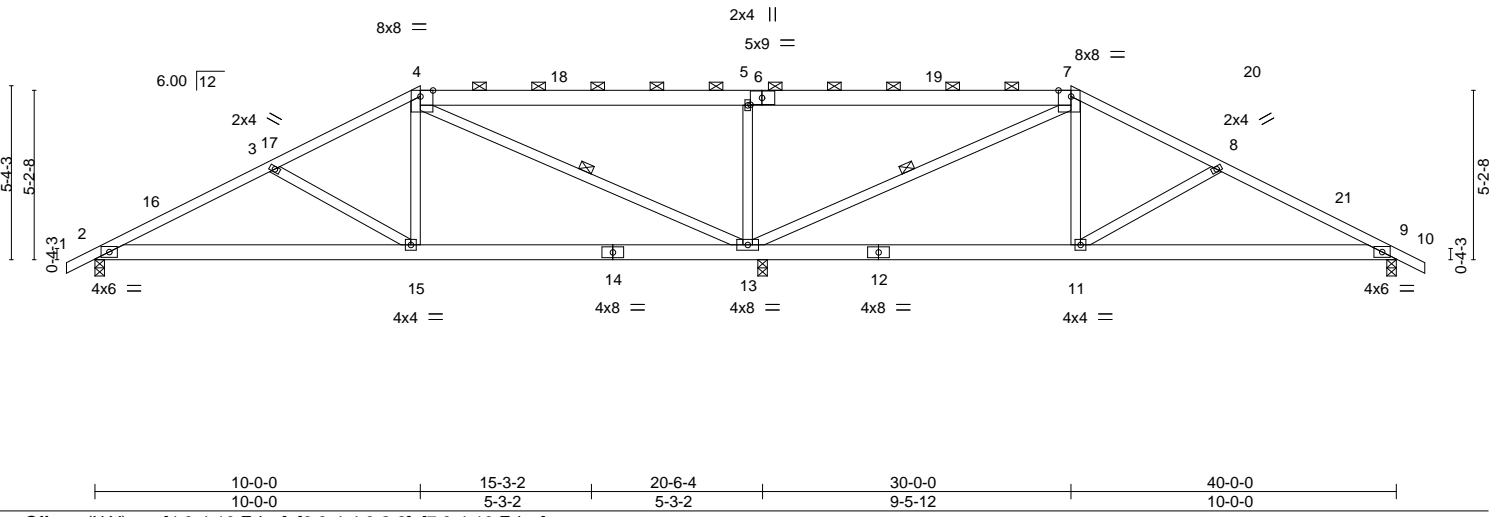
Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377047
140_1445_B	H5A	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:04 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-Rp3FMtKrvDEFOnkq0V1S8RS?J6wyl1XLdaAAZ9zhee9

-0-10-8	5-6-5	10-0-0	16-8-0	23-4-0	30-0-0	34-5-11	40-0-0	40-10-8
0-10-8	5-6-5	4-5-11	6-8-0	6-8-0	6-8-0	4-5-11	5-6-5	0-10-8

Scale = 1:70.8



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 0.75	Vert(LL)	-0.07	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.15	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-13, 7-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 2=-89(LC 17)
 Max Uplift 2=-105(LC 12), 13=-219(LC 9), 9=-113(LC 13)
 Max Grav 2=747(LC 23), 13=1844(LC 1), 9=742(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1100/194, 3-4=-786/125, 4-5=0/350, 5-7=0/350, 7-8=-772/122, 8-9=-1087/191
 BOT CHORD 2-15=-157/924, 13-15=-12/642, 11-13=0/629, 9-11=-107/913
 WEBS 3-15=-316/199, 4-15=0/491, 4-13=-1059/148, 7-13=-1047/148, 7-11=0/488, 8-11=-318/199, 5-13=-720/321

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

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

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

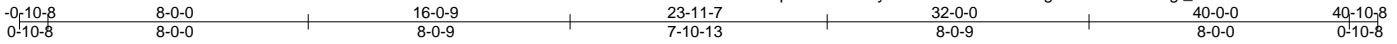
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377048
140_1445_B	H6	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:05 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-v0ddZCLTgWM6exJ1aDYhgf_9mWBTRXnVsEvk5czhee8



Scale = 1:70.8

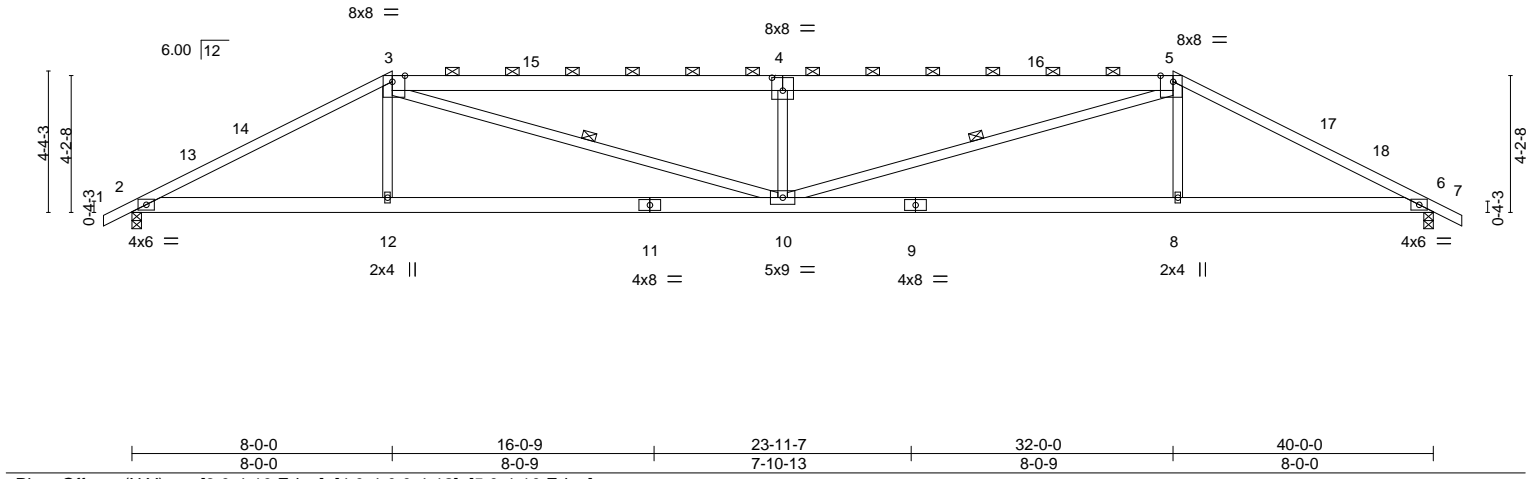


Plate Offsets (X,Y)--	[3:0-4-10,Edge], [4:0-4-0,0-4-12], [5:0-4-10,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.27	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.55	8-10	>865		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.11	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 232 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* 3-4,4-5: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-2-10 max.); 3-5.
WEBS 2x4 SP No.3 *Except* 3-10,5-10: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 3-10, 5-10


REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=72(LC 16)
 Max Uplift 2=-167(LC 9), 6=-167(LC 8)
 Max Grav 2=1650(LC 1), 6=1650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3130/418, 3-4=-4467/692, 4-5=-4467/692, 5-6=-3130/418
 BOT CHORD 2-12=-312/2718, 10-12=-316/2708, 8-10=-282/2708, 6-8=-278/2718
 WEBS 3-12=0/450, 3-10=-426/1980, 4-10=-906/392, 5-10=-427/1980, 5-8=0/450

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



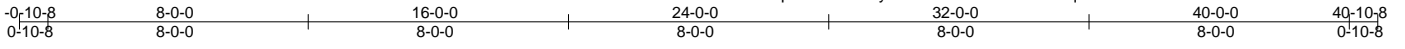
February 26, 2020

<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>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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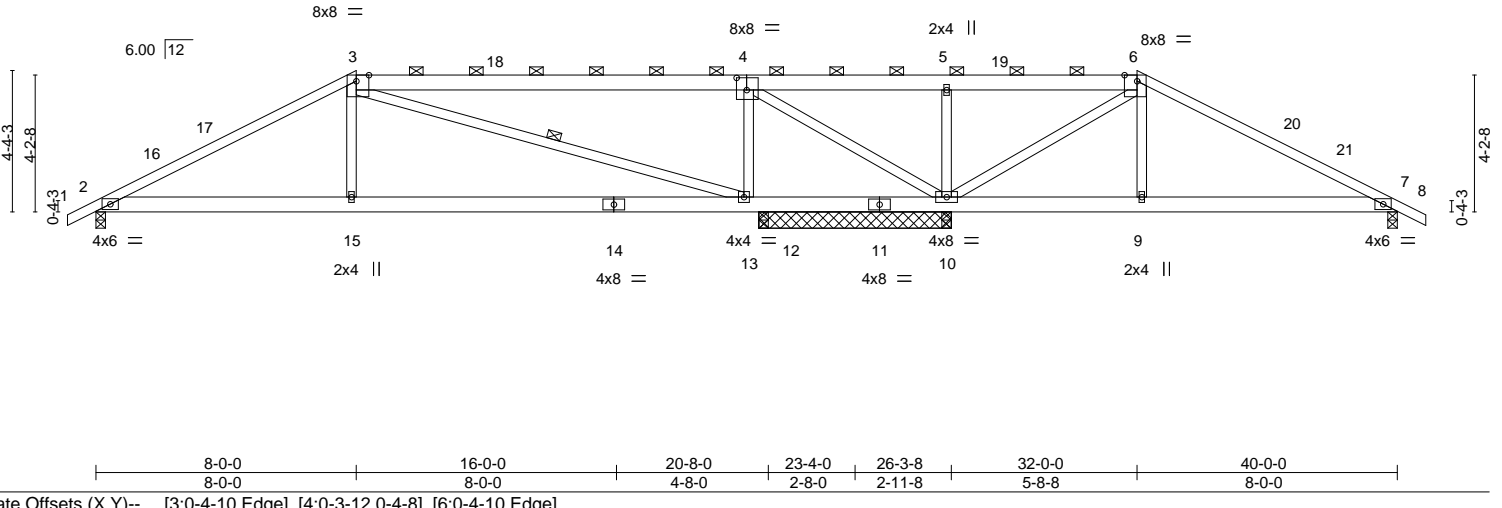
Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377049
140_1445_B	H6A	Hip	1	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:06 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-NCB?nYM5RqUzF5uD8w3wDsXJ8vaFAvEe4ufHd2zhee7



Scale = 1:70.8



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 0.86	Vert(LL)	-0.14	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.30	13-15	>809		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 238 lb	FT = 20%

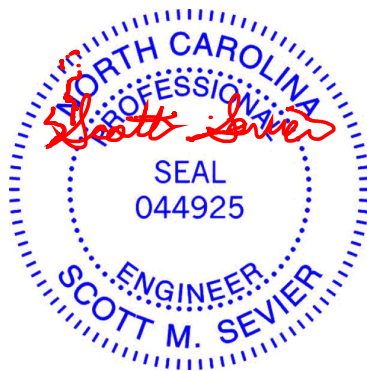
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4,4-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-13: 2x4 SP No.2	WEBS 1 Row at midpt 3-13

REACTIONS. All bearings 0-3-8 except (jt=length) 10=5-11-0, 10=5-11-0.
 (lb) - Max Horz 2=72(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 7=-104(LC 13), 12=-207(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=857(LC 23), 10=1025(LC 1), 10=1025(LC 1), 7=514(LC 24), 12=916(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1340/170, 4-5=0/360, 5-6=0/363, 6-7=-520/109
 BOT CHORD 2-15=-66/1110, 13-15=-71/1099, 9-10=-1/361, 7-9=0/369
 WEBS 3-15=0/474, 3-13=-947/157, 4-13=-380/302, 4-10=-636/29, 6-10=-859/141, 6-9=0/353,
 5-10=-255/116

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, 7, and 12. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

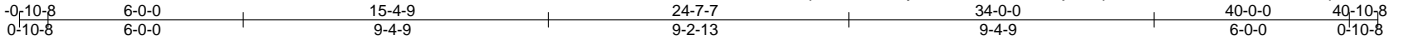
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377050
140_1445_B	H7	Hip	1	1		

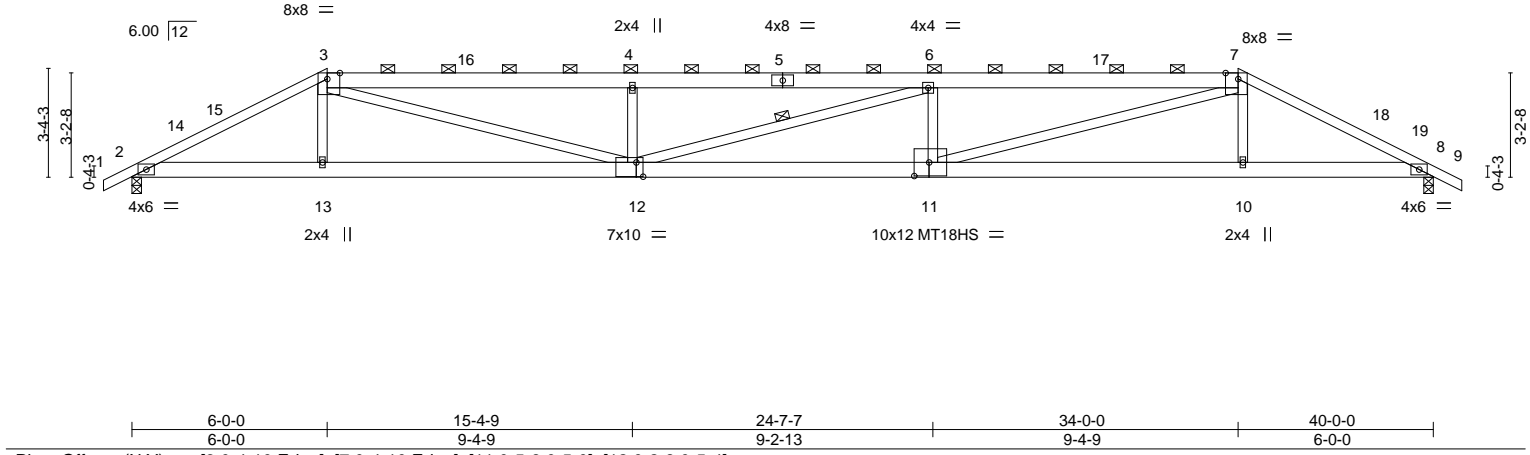
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:07 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-rOIO_uMjC8cqtFTPhea9I44YxJuNvJOnJYOqAUzhee6



Scale = 1:70.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.60	Vert(LL) -0.42 11-12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.84 11-12 >564 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.13 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 239 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-7-12 oc purlins, except
BOT CHORD 2x6 SP No.2 *Except* 11-12: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-12,7-11: 2x4 SP No.2	WEBS 1 Row at midpt 6-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=56(LC 16)
 Max Uplift 2=-203(LC 9), 8=-203(LC 8)
 Max Grav 2=1650(LC 1), 8=1650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3272/454, 3-4=-5588/933, 4-6=-5557/919, 6-7=-5590/934, 7-8=-3271/454
 BOT CHORD 2-13=-384/2872, 12-13=-389/2861, 11-12=-860/5559, 10-11=-357/2861, 8-10=-353/2872
 WEBS 3-13=0/361, 3-12=-580/2925, 4-12=-651/277, 6-11=-666/283, 7-11=-582/2928, 7-10=0/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 34-0-0, Exterior(2) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 40-10-8 zone; 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 MT20 plates 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

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ENGINEERING BY
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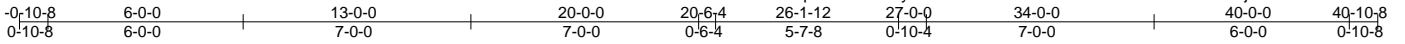
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377051
140_1445_B	H7A	Hip	1	1		

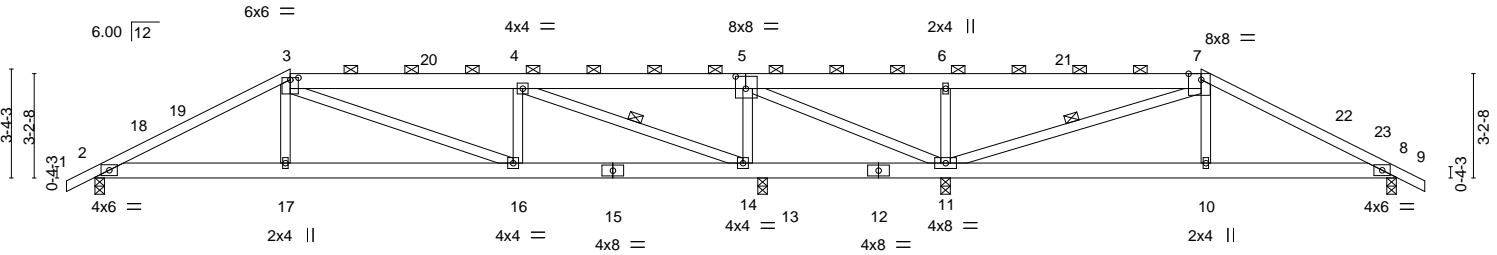
84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:08 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-JbJmBENLzRkhVP2cFL6OIHcmwjlvtvxYC8Oiwzhee5



Scale = 1:70.8



	6-0-0	13-0-0	20-6-4	26-1-12	34-0-0	40-0-0
Plate Offsets (X,Y)--	[3:0-3-0,0-0-12], [5:0-3-12,0-4-8], [7:0-4-10,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 0.39	Vert(LL)	-0.05	16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.11	14-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,11-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-14, 7-11

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=56(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 11=147(LC 8), 13=183(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=819(LC 23), 11=878(LC 24), 8=523(LC 24), 13=1087(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1338/203, 3-4=-1242/227, 5-6=-34/327, 6-7=-33/330, 7-8=-675/106
 BOT CHORD 2-17=-115/1131, 16-17=-119/1122, 14-16=-184/1239, 10-11=-19/526, 8-10=-15/535
 WEBS 3-17=0/281, 4-16=0/282, 4-14=-1586/260, 5-14=-343/154, 6-11=-469/212, 7-11=-901/145, 7-10=0/318

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 34-0-0, Exterior(2) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, 8, and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377052
140_1445_B	HG	Hip Girder	1	1		
Job Reference (optional)						

84 Components (Dunn), Dunn, NC - 28334,

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ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-jA_uqGQEFM6GMsmAwUf5wwE9LwCcr7NNEAM2JFzhee2

0-10-8	4-0-0	8-8-2	13-2-7	17-8-13	22-3-3	26-9-9	31-3-14	36-0-0	40-0-0	40-10-8
0-10-8	4-0-0	4-8-2	4-6-6	4-6-6	4-6-6	4-6-6	4-6-6	4-8-2	4-0-0	0-10-8

Scale = 1:68.7

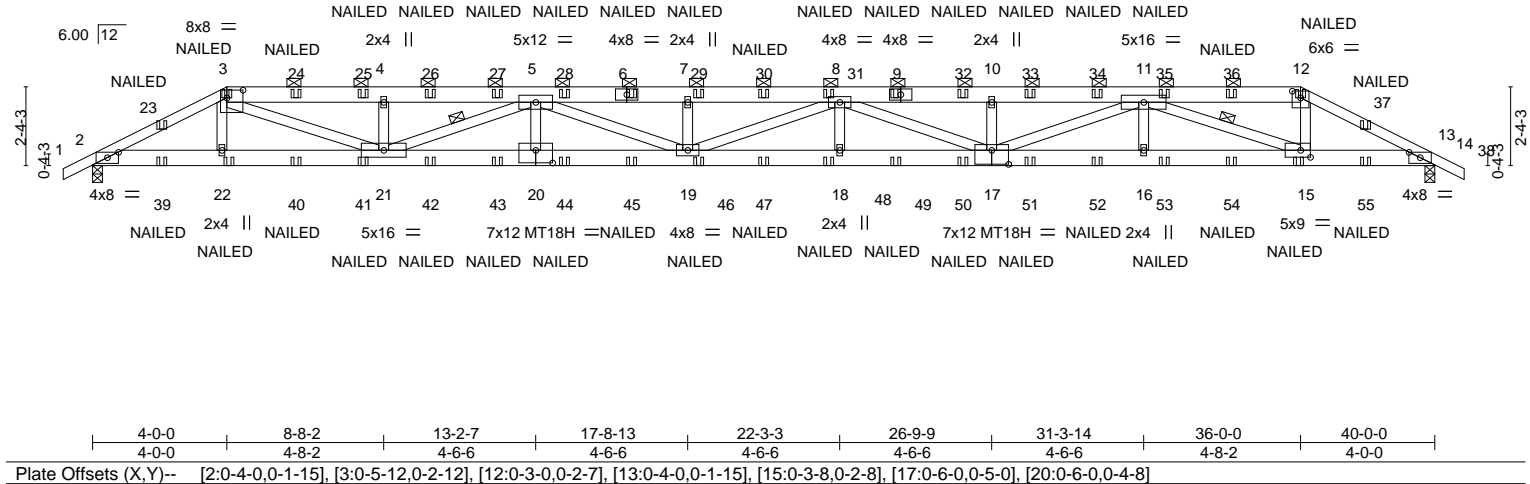


Plate Offsets (X,Y)--	[2:0-4-0,0-1-15], [3:0-5-12,0-2-12], [12:0-3-0,0-2-7], [13:0-4-0,0-1-15], [15:0-3-8,0-2-8], [17:0-6-0,0-5-0], [20:0-6-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) 1.01 18-19 >471 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -1.80 18-19 >265 180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.99	Horz(CT) 0.24 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 1-3,12-14: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except 2-0-0 oc purlins (2-1-14 max.): 3-12.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-21,5-21,5-19,8-19,8-17,11-17,11-15: 2x4 SP No.2	WEBS 1 Row at midpt 5-21, 11-15

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=40(LC 35)
 Max Uplift 2=-518(LC 9), 13=-518(LC 8)
 Max Grav 2=2274(LC 1), 13=2274(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4603/1125, 3-4=-7771/2020, 4-5=-7770/2019, 5-7=-11361/2962, 7-8=-11361/2962,
 8-10=-10175/2652, 10-11=-10175/2652, 11-12=-3942/997, 12-13=-4608/1125
 BOT CHORD 2-22=-989/4063, 21-22=-994/4050, 20-21=-2625/10176, 19-20=-2625/10176,
 18-19=-2932/11364, 17-18=-2932/11364, 16-17=-1967/7755, 15-16=-1967/7755,
 13-15=-968/4068
 WEBS 3-22=0/281, 3-21=-1087/4038, 4-21=-417/236, 5-21=-2613/701, 5-20=0/254,
 5-19=-339/1292, 7-19=-364/209, 8-18=0/255, 8-17=-1297/352, 10-17=-377/209,
 11-17=-693/2628, 11-16=0/250, 11-15=-4113/1115, 12-15=-334/1684

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 36-0-0, Exterior(2) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 40-10-8 zone; 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 MT20 plates 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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



February 26, 2020

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377052
140_1445_B	HG	Hip Girder	1	1		
						Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:11 2020 Page 2
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-jA_uqQEFM6GMsmAwUf5wwE9LwCcr7NNEAM2JFzhee2

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-12=-60, 12-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 3=-46(B) 6=-46(B) 12=-46(B) 22=-18(B) 15=-18(B) 9=-46(B) 23=-44(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-46(B) 28=-46(B) 29=-46(B) 30=-46(B) 31=-46(B) 32=-46(B) 33=-46(B) 34=-46(B) 35=-46(B) 36=-46(B) 37=-44(B) 39=-42(B) 40=-18(B) 41=-18(B) 42=-18(B) 43=-18(B) 44=-18(B) 45=-18(B) 46=-18(B) 47=-18(B) 48=-18(B) 49=-18(B) 50=-18(B) 51=-18(B) 52=-18(B) 53=-18(B) 54=-18(B) 55=-42(B)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377053
140_1445_B	HGS	Hip Girder	1	1		
Job Reference (optional)						

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:14 2020 Page 1

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-8kg1SHS6YHUrdKvlccDoXysiT8K52V1pw7bivazhee?

0-10-8	4-0-0	8-2-14	12-4-0	16-5-2	20-6-4	26-1-12	31-0-0	36-0-0	40-0-0	40-10-8
0-10-8	4-0-0	4-2-14	4-1-2	4-1-2	4-1-2	5-7-8	4-10-4	5-0-0	4-0-0	0-10-8

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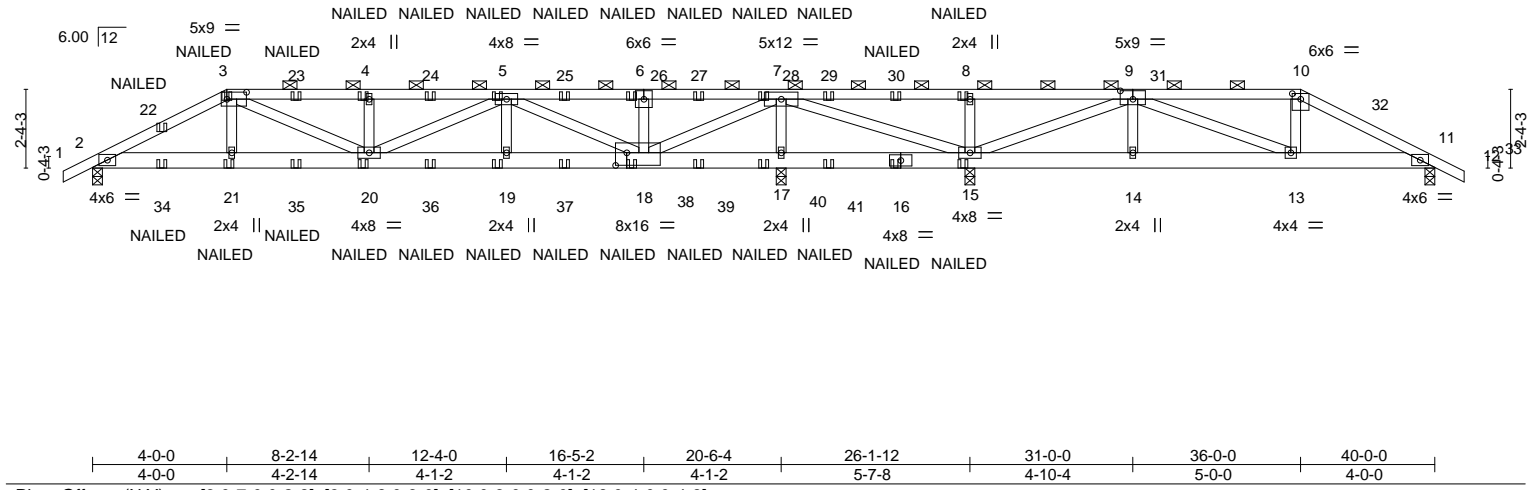


Plate Offsets (X,Y)--	[3:0-7-0,0-2-8], [9:0-4-8,0-3-0], [10:0-3-0,0-2-0], [18:0-4-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) 0.10 19-20 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.18 19-20 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.02 17 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 224 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-6-13 max.): 3-10.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	5-10-5 oc bracing: 17-18
	5-10-6 oc bracing: 15-17.

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=41(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=199(LC 12), 17=507(LC 9), 15=140(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1028(LC 23), 17=1923(LC 23), 15=718(LC 24), 11=493(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1785/415, 3-4=-2164/569, 4-5=-2164/569, 5-6=-564/189, 6-7=-564/189, 7-8=-144/709, 8-9=-144/709, 9-10=-566/174, 10-11=-686/164
 BOT CHORD 2-21=-345/1533, 20-21=-340/1546, 19-20=-476/1881, 18-19=-476/1881, 17-18=-1468/393, 15-17=-1468/393, 14-15=-152/482, 13-14=-152/482, 11-13=-81/563
 WEBS 3-21=0/269, 3-20=-231/705, 4-20=-349/203, 5-20=-66/315, 5-19=0/262, 5-18=-1462/374, 6-18=-299/174, 7-18=-576/2252, 7-17=-1692/571, 7-15=-213/815, 8-15=-410/221, 9-15=-1188/212

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 8-2-14, Interior(1) 8-2-14 to 36-0-0, Exterior(2) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 40-10-8 zone; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 17, 15, and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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



February 26, 2020

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.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377053
140_1445_B	HGS	Hip Girder	1	1		
						Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:14 2020 Page 2
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-8kg1SHS6YHUrDKVlccDoXYsiT8K52V1pw7bivazhee?

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-10=-60, 10-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-46(F) 21=-18(F) 20=-18(F) 4=-46(F) 5=-46(F) 19=-18(F) 8=-54(F) 15=-18(F) 16=-18(F) 22=-44(F) 23=-46(F) 24=-46(F) 25=-46(F) 26=-46(F) 27=-46(F) 28=-46(F) 29=-46(F) 30=-46(F) 34=-42(F) 35=-18(F) 36=-18(F) 37=-18(F) 38=-18(F) 39=-18(F) 40=-18(F) 41=-18(F)

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

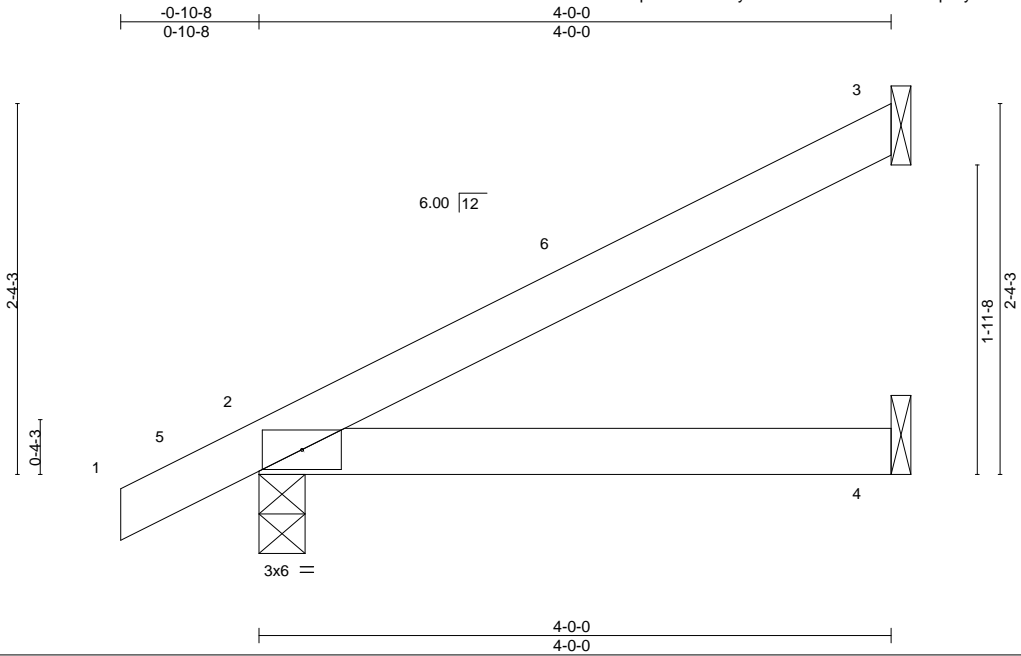
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	Qty	Ply	140.1445.B	140377054
140_1445_B	J1	Jack-Open	26	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:15 2020 Page 1
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-cxEPfdTkJbchqU4y9Jk14mP?dYkemArz9nKFS0zhee_



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

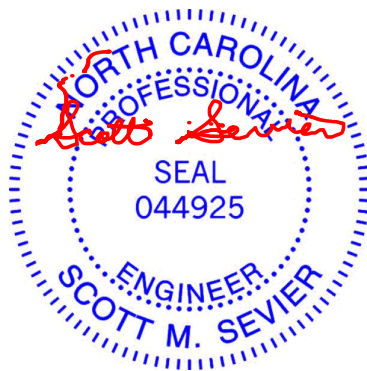
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=91(LC 12)
 Max Uplift 3=-67(LC 12), 2=-32(LC 12)
 Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

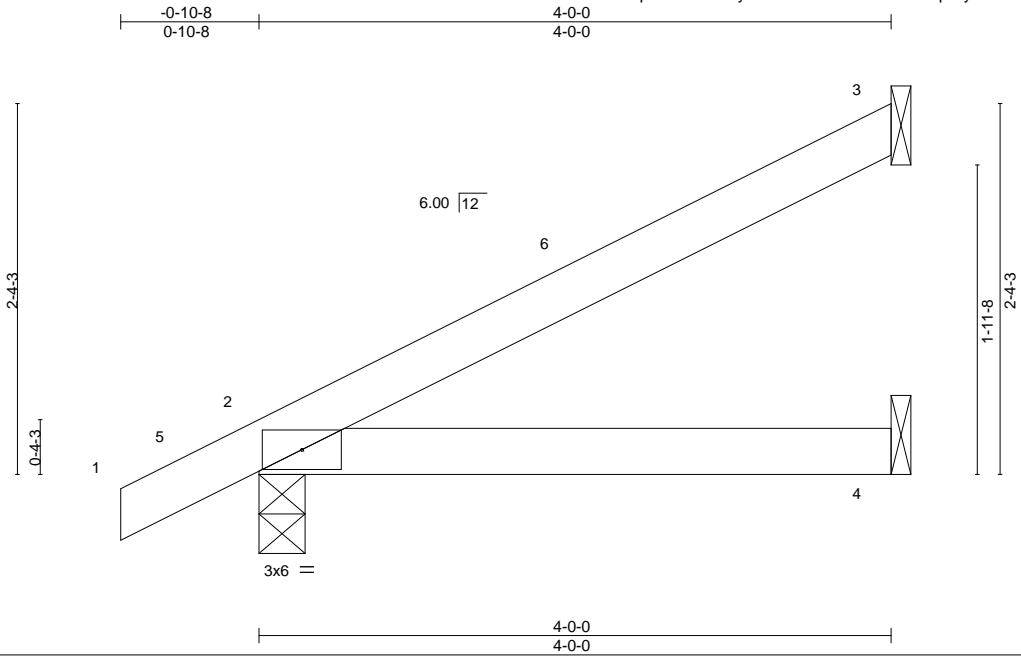
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



February 26, 2020

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377055
140_1445_B	J2	Jack-Open	2	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:15 2020 Page 1
 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-cxEPfdTkJbchqU4y9Jk14mP?dYkemArz9nKFS0zhee_



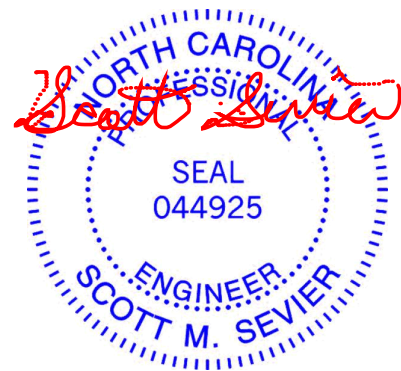
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01 2-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=91(LC 12)
 Max Uplift 3=-67(LC 12), 2=-32(LC 12)
 Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

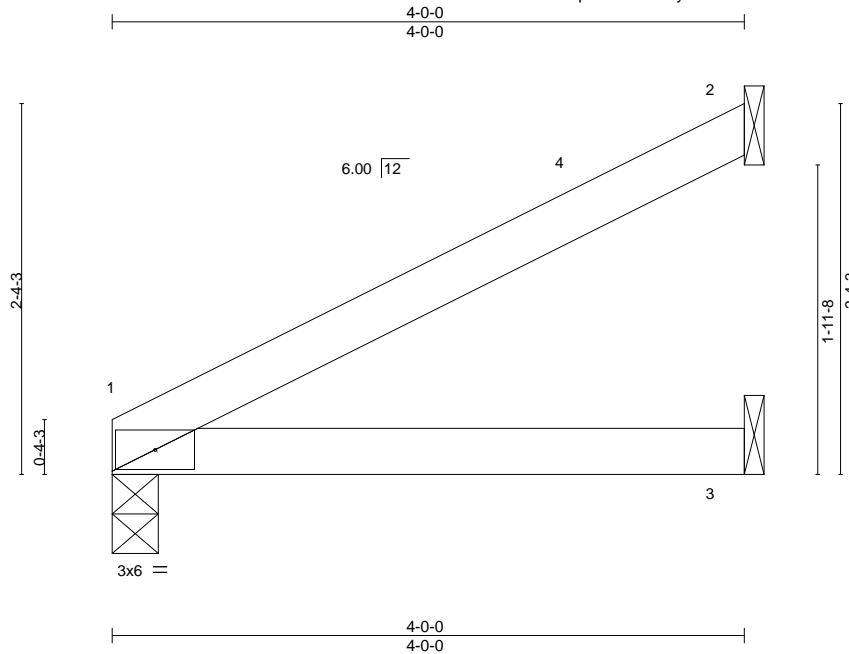


February 26, 2020

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377056
140_1445_B	J3	Jack-Open	1	1		
						Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:16 2020 Page 1
ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-47ontzTM4vkY Sdf8j1FGdzx9nx4tVd56NR4pzTzhedz



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.01 1-3	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.02 1-3	>999	180		
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-P					Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=78(LC 12)
Max Uplift 1=-7(LC 12), 2=-71(LC 12)
Max Grav 1=152(LC 1), 2=114(LC 1), 3=76(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



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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.

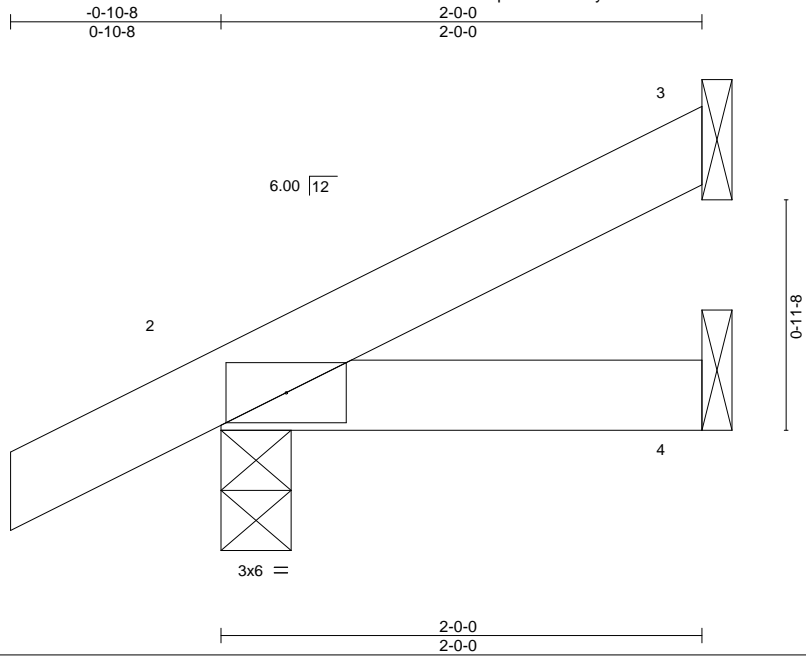


818 Soundside Road
Edenton, NC 27932

Job 140_1445_B	Truss J4	Truss Type Jack-Open	Qty 3	Ply 1	140.1445.B	140377057
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84 Components (Dunn), Dunn, NC - 28334,

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:16 2020 Page 1
ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-47ontzTM4vkYSdf8j1FGdzxDAX6vVd56NR4pzTzhedz



Scale = 1:9.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

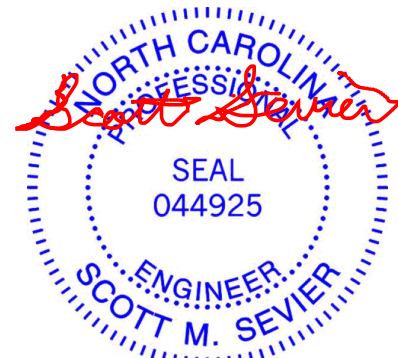
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=53(LC 12)
Max Uplift 3=31(LC 12), 2=-29(LC 12)
Max Grav 3=46(LC 1), 2=145(LC 1), 4=39(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



February 26, 2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	140.1445.B	140377058
140_1445_B	JG1	Jack-Open Girder	3	1		
84 Components (Dunn), Dunn, NC - 28334,						Job Reference (optional)

8.330 s Feb 13 2020 MiTek Industries, Inc. Tue Feb 25 09:00:17 2020 Page 1
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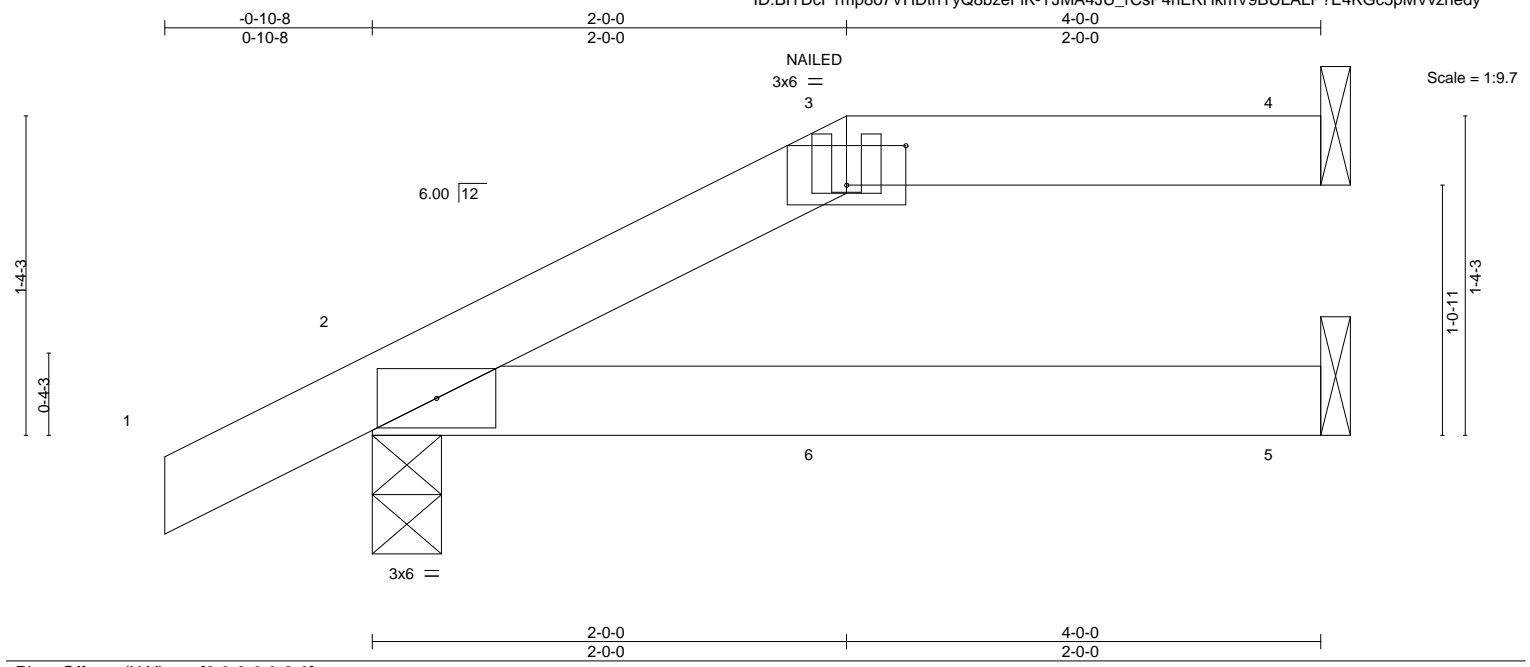


Plate Offsets (X,Y)--	[3:0-3-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(LL) 0.02 2-5 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.03 2-5 >999 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Horz(CT) 0.02 4 n/a n/a		
				Weight: 14 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=54(LC 12)
 Max Uplift 4=46(LC 9), 2=-68(LC 12), 5=-4(LC 9)
 Max Grav 4=104(LC 1), 2=246(LC 1), 5=76(LC 3)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - 8) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 49 lb down and 54 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

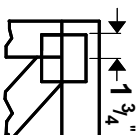
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-49(B)



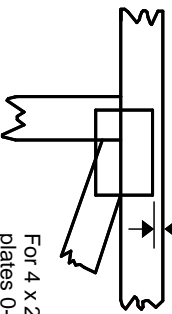
February 26, 2020

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

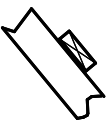
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

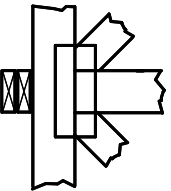
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



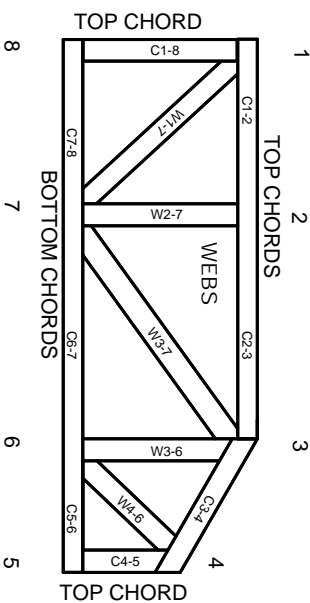
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITteK 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.