

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: 26233-26233A  
TERRY HINSON JOB - JMS

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: I45365511 thru I45365540

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

North Carolina COA: C-0844



March 26, 2021

Liu, Xuegang

**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 26233-26233A	Truss A	Truss Type ROOF TRUSS	Qty 6	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365511
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:13 2021 Page 1

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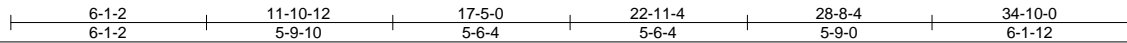
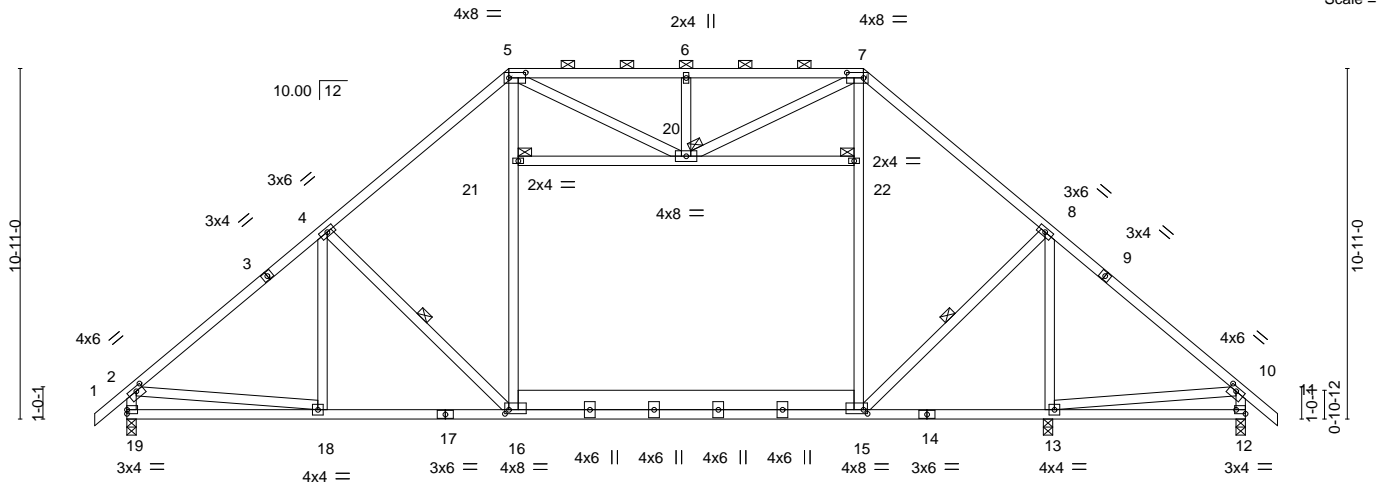


Plate Offsets (X, Y)--	[2:0-2-12,0-1-8], [5:0-6-4,0-2-0], [7:0-6-4,0-2-0], [10:0-2-12,0-1-8], [12:Edge,0-1-8], [15:0-1-8,0-1-8], [16:0-1-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.14 16-18	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.30 16-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.09 15-16	1487	360	Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 5-7.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 15-16: 2x8 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 4-16, 8-15
	JOINTS 1 Brace at Jt(s): 20, 21, 22

REACTIONS.	(size)
19=0-3-8, 13=0-3-8, 12=0-3-8	
Max Horz 19=-295(LC 10)	
Max Uplift 19=-38(LC 12), 13=-437(LC 8), 12=-160(LC 12)	
Max Grav 19=1597(LC 1), 13=627(LC 25), 12=1569(LC 20)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1900/133, 4-5=-1704/189, 5-6=-1614/318, 6-7=-1614/318, 7-8=-1681/188, 8-10=-1915/282, 2-19=-1541/170, 10-12=-1498/190
BOT CHORD	18-19=-287/441, 16-18=-125/1549, 15-16=-55/1302, 13-15=-206/1434, 12-13=-74/310
WEBS	4-16=-382/241, 16-21=-18/661, 5-21=0/685, 5-20=-165/459, 6-20=-368/175, 7-20=-151/522, 15-22=-82/663, 7-22=0/685, 8-15=-258/314, 8-13=-605/408, 2-18=0/1195, 10-13=-257/1236

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 20-21, 20-22; Wall dead load (5.0psf) on member(s).16-21, 15-22
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
  - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 13, 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.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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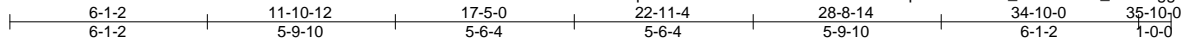
818 Soundside Road  
 Edenton, NC 27932

Job 26233-26233A	Truss A1	Truss Type ROOF TRUSS	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365512
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:15 2021 Page 1

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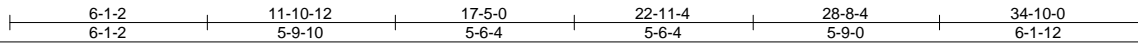
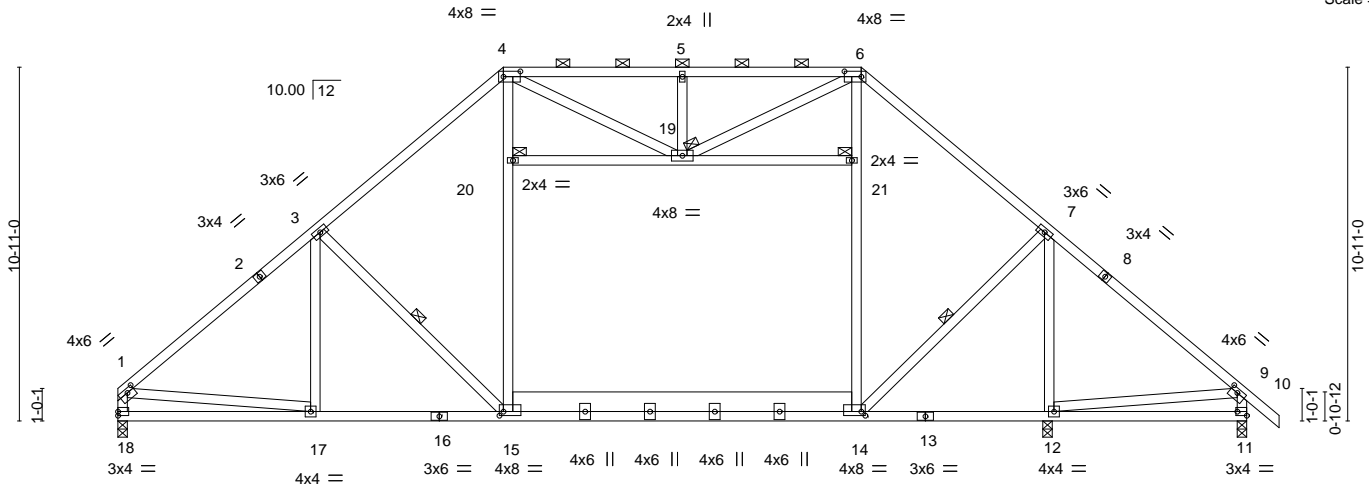


Plate Offsets (X, Y)--	[1:0-2-12,0-1-8], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [9:0-2-12,0-1-8], [11:Edge,0-1-8], [14:0-1-8,0-1-8], [15:0-1-8,0-1-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.14 15-17 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.30 15-17 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.04 11 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MS	Attic -0.09 14-15 1482 360	Weight: 274 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-1 max.): 4-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 14-15: 2x8 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 3-15, 7-14
	JOINTS 1 Brace at Jt(s): 19, 20, 21
<b>REACTIONS.</b> (size) 18=0-3-8, 12=0-3-8, 11=0-3-8	
Max Horz 18=-287(LC 10)	
Max Uplift 18=-14(LC 12), 12=-437(LC 8), 11=-159(LC 12)	
Max Grav 18=1528(LC 1), 12=626(LC 25), 11=1572(LC 20)	

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1903/129, 3-4=-1709/191, 4-5=-1618/318, 5-6=-1618/318, 6-7=-1684/187, 7-9=-1920/281, 1-18=-1472/120, 9-11=-1501/190
BOT CHORD 17-18=-259/394, 15-17=-125/1558, 14-15=-55/1304, 12-14=-205/1437, 11-12=-74/310
WEBS 3-15=-389/245, 15-20=-20/667, 4-20=0/692, 4-19=-165/459, 5-19=-369/174, 6-19=-152/523, 14-21=-82/665, 6-21=0/686, 7-14=-258/314, 7-12=-604/409, 1-17=0/1240, 9-12=-257/1239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 19-20, 19-21; Wall dead load (5.0psf) on member(s).15-20, 14-21
  - Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
  - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 12, 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.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



March 26, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 26233-26233A	Truss A2	Truss Type Piggyback Base	Qty 10	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365513
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84 Components (Dunn), Dunn, NC - 28334,

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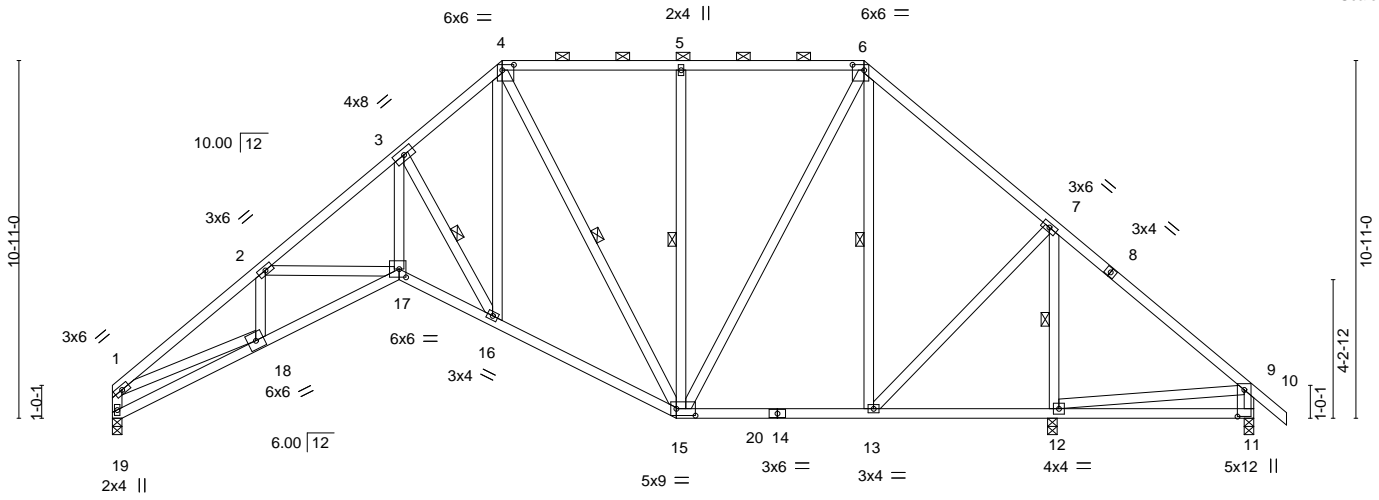


Plate Offsets (X, Y)--	[4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [11:0-9-12,0-2-8], [15:0-7-0,0-2-8], [17:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.13	17	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.25	17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.21	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 256 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-16, 4-15, 5-15, 6-13, 7-12

**REACTIONS.** (size) 19=0-3-8, 12=0-3-8, 11=0-3-8  
 Max Horz 19=-289(LC 10)  
 Max Uplift 19=-81(LC 12), 12=-111(LC 12), 11=-392(LC 23)  
 Max Grav 19=1034(LC 1), 12=2011(LC 1), 11=159(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2269/337, 2-3=-2178/301, 3-4=-1191/332, 4-5=-584/321, 5-6=-588/323,  
 6-7=-506/273, 7-9=-148/786, 1-19=-1046/211, 9-11=-126/440  
 BOT CHORD 18-19=-303/417, 17-18=-422/1969, 16-17=-370/1808, 15-16=-196/981, 13-15=-22/331,  
 12-13=-528/137  
 WEBS 3-17=-313/1736, 3-16=-1555/314, 4-16=-136/1054, 4-15=-666/136, 5-15=-384/177,  
 6-15=-173/697, 6-13=-658/181, 7-13=-154/1083, 7-12=-1796/329, 1-18=-144/1624,  
 9-12=-666/209

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.
  - Bearing at joint(s) 19 considers parallel to grain value using ANS/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 12, 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.



March 26, 2021

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**TRENCO**  
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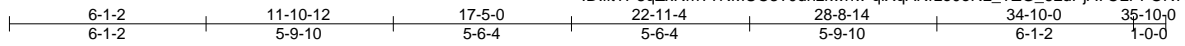
818 Soundside Road  
 Edenton, NC 27932

Job 26233-26233A	Truss A2E	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365514
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:18 2021 Page 1

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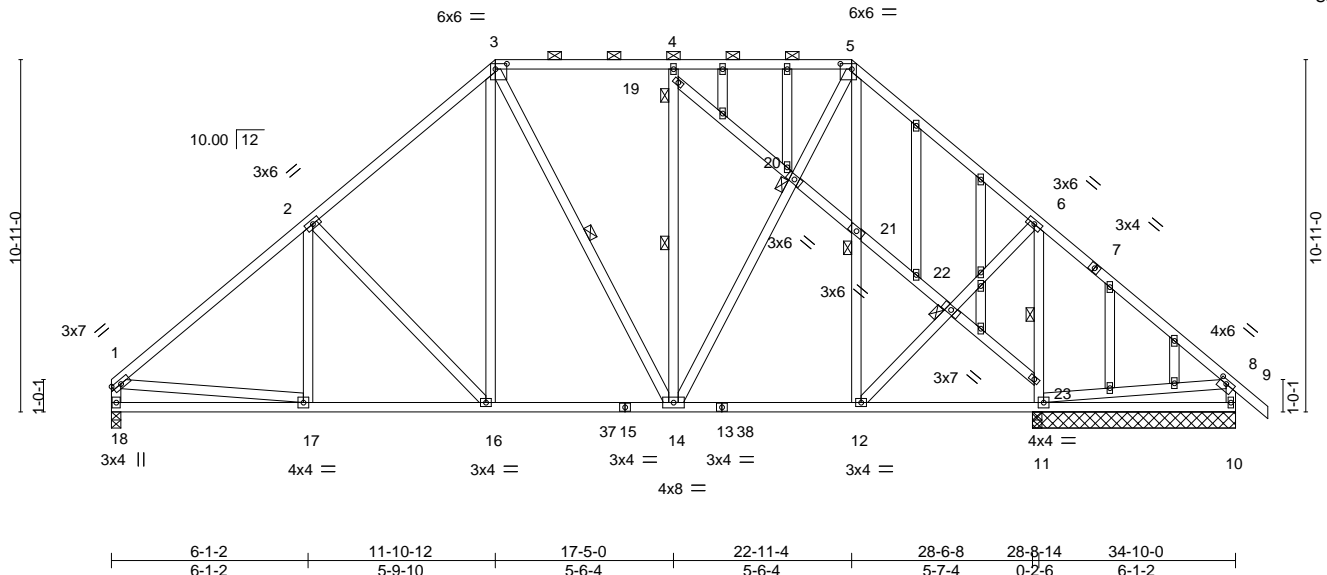


Plate Offsets (X,Y)--	[3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-2-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.06 14-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.10 14-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 304 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-14, 14-19, 6-11
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 19, 20, 21, 22

**REACTIONS.** All bearings 6-3-8 except (jt=length) 18=0-3-8.  
 (lb) - Max Horz 18=287(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) except 18=1142(LC 1), 11=1384(LC 1), 11=1384(LC 1), 10=324(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1379/266, 2-3=-1119/347, 3-4=-762/328, 4-5=-679/300, 5-6=-720/269,  
 1-18=-1084/222, 8-10=-272/114  
 BOT CHORD 17-18=-265/387, 16-17=-199/1066, 14-16=-142/815, 12-14=-69/597  
 WEBS 2-16=-409/230, 3-16=-98/448, 14-19=-311/167, 4-19=-376/174, 14-20=-130/503,  
 5-20=-130/506, 12-21=-325/116, 5-21=-332/118, 12-22=-71/650, 6-22=-71/651,  
 11-23=-1240/296, 6-23=-1161/274, 1-17=-46/817, 8-11=-267/190

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 11, and 10. 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.



March 26, 2021

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





Job 26233-26233A	Truss B1E	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365516
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84 Components (Dunn), Dunn, NC - 28334, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:21 2021 Page 1

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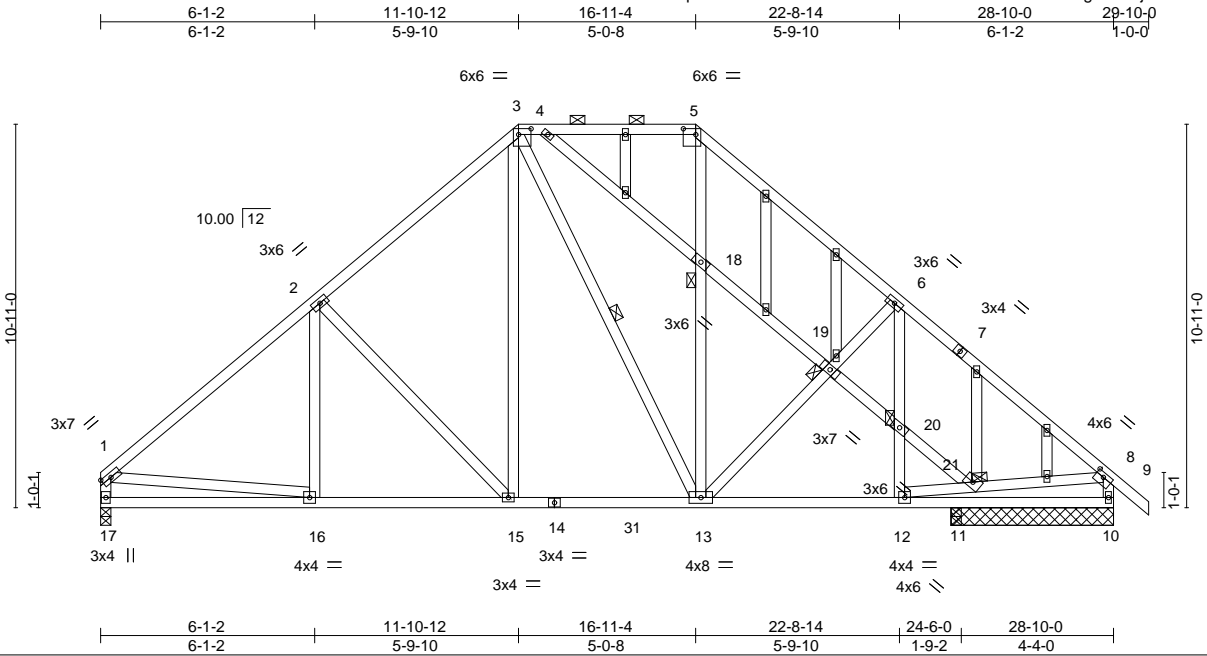


Plate Offsets (X,Y)--	[3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-2-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) -0.05 13-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.10 12-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-13
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 18, 19, 20, 21

**REACTIONS.** (size) 17=0-3-8, 10=4-7-8, 11=0-3-8  
 Max Horz 17=-287(LC 8)  
 Max Uplift 17=-97(LC 12), 10=-134(LC 13)  
 Max Grav 17=1114(LC 1), 10=1065(LC 1), 11=194(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1341/261, 2-3=-1076/341, 3-4=-735/329, 4-5=-738/310, 5-6=-1070/328, 6-8=-1247/265, 1-17=-1056/218, 8-10=-1046/272  
 BOT CHORD 16-17=-264/387, 15-16=-134/1032, 13-15=-63/766, 12-13=-67/840  
 WEBS 2-15=-407/227, 3-15=-99/442, 13-18=-70/362, 5-18=-72/375, 13-19=-288/240, 6-19=-289/240, 1-16=-41/788, 12-21=0/665, 8-21=0/708

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) N/A
  - 10) N/A
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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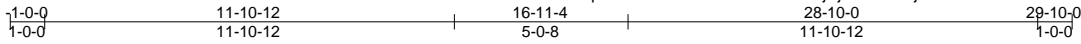
Job 26233-26233A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365517
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:23 2021 Page 1

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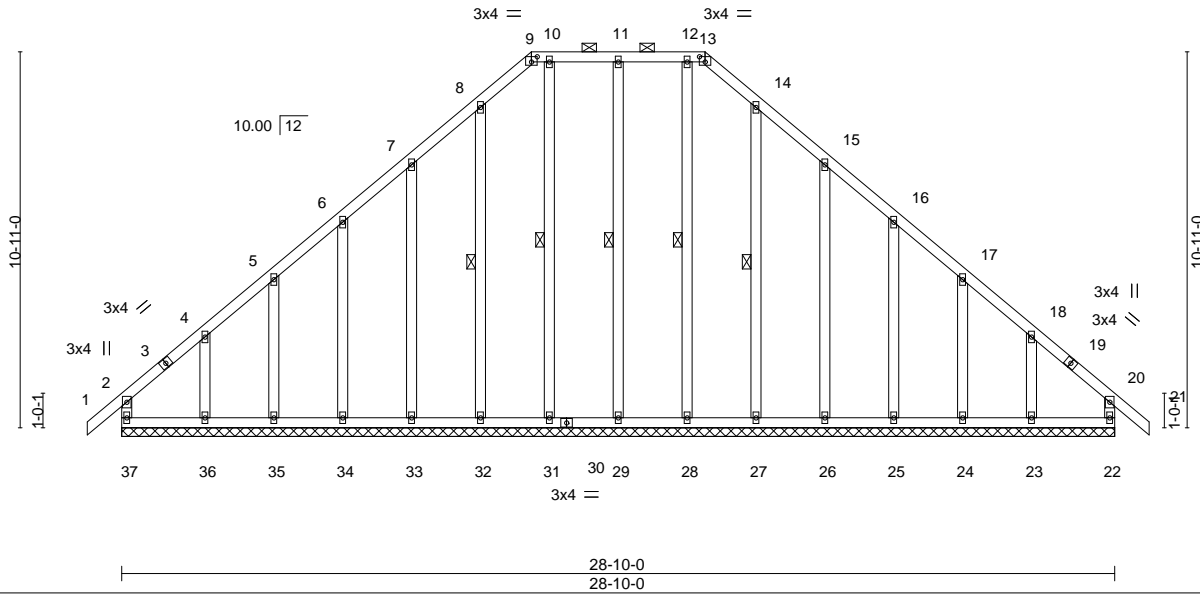


Plate Offsets (X, Y)--	[9:0-2-0,0-1-13], [13:0-2-0,0-1-13]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.00 21 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.01 21 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 22 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 235 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-29, 10-31, 8-32, 12-28, 14-27
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 28-10-0.  
 (lb) - Max Horz 37=295(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 22, 29, 32, 33, 34, 35, 27, 26, 25, 24 except 37=-125(LC 8), 36=-183(LC 12), 23=-172(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 22, 29, 31, 32, 33, 34, 35, 28, 27, 26, 25, 24, 23 except 37=251(LC 20), 36=252(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 7-8=-261/296, 8-9=-290/332, 9-10=-248/292, 10-11=-248/292, 11-12=-248/292, 12-13=-248/292, 13-14=-290/332, 14-15=-261/296

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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.
  - 11) N/A
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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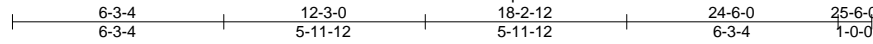
Job 26233-26233A	Truss C	Truss Type Common	Qty 4	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365518
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84 Components (Dunn),

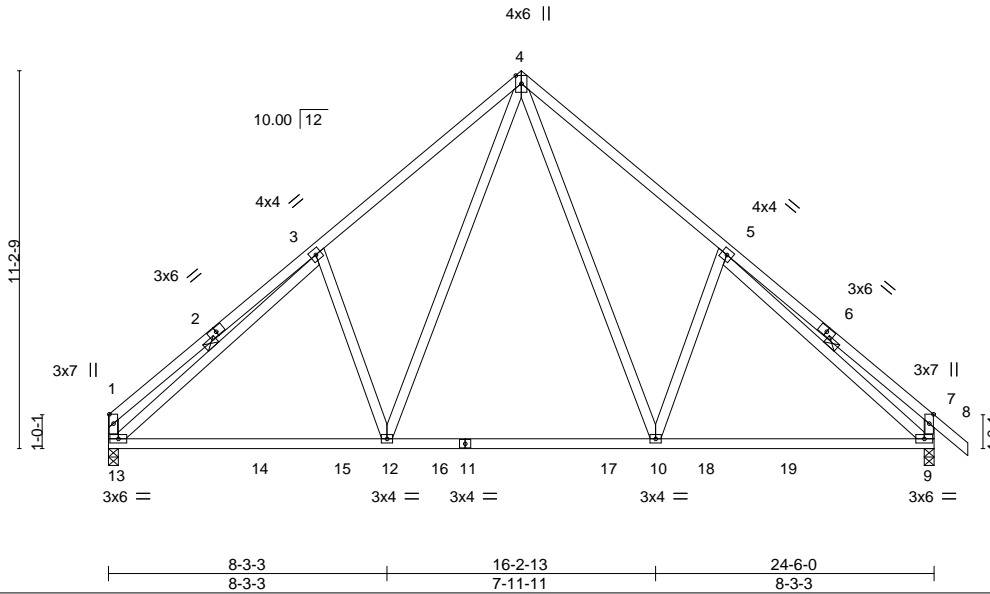
Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:24 2021 Page 1

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Scale = 1:68.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.14 10-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.21 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 163 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-13, 5-9

**REACTIONS.** (size) 13=0-3-8, 9=0-3-8  
 Max Horz 13=-294(LC 8)  
 Max Uplift 13=-87(LC 12), 9=-111(LC 13)  
 Max Grav 13=1019(LC 19), 9=1087(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-428/190, 3-4=-1136/366, 4-5=-1130/364, 5-7=-497/256, 1-13=-378/167, 7-9=-496/248  
 BOT CHORD 12-13=-138/1020, 10-12=0/691, 9-10=-33/878  
 WEBS 4-10=-195/627, 5-10=-340/303, 4-12=-198/636, 3-12=-347/306, 3-13=-930/62, 5-9=-888/13

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.



March 26, 2021

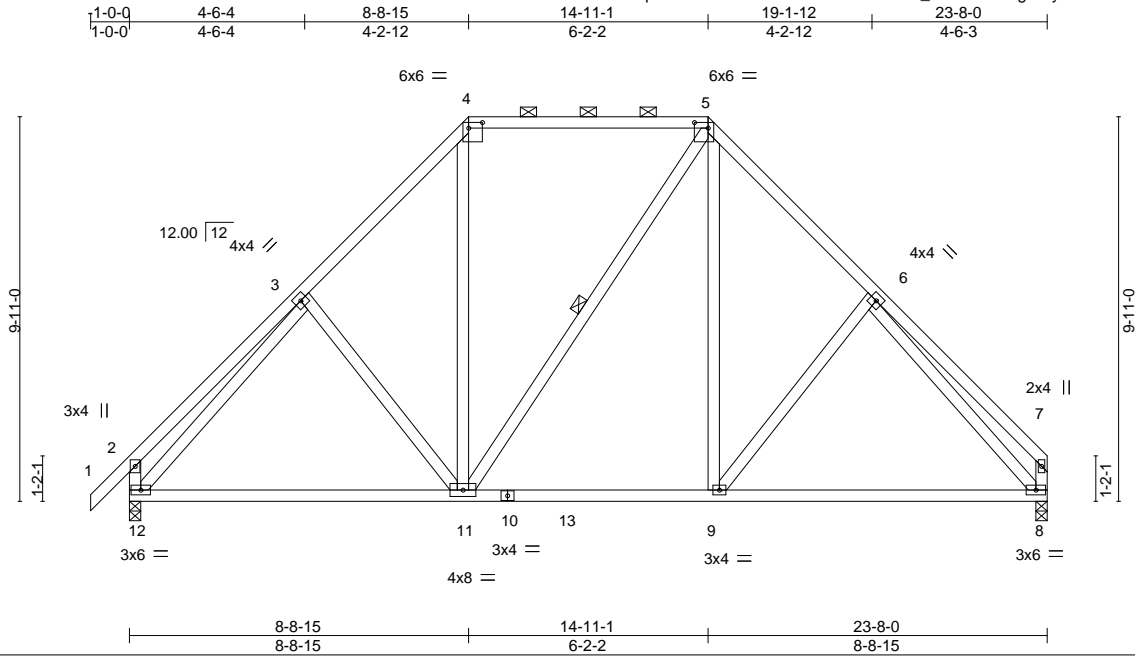
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 Edenton, NC 27932



Job 26233-26233A	Truss D1	Truss Type Piggyback Base	Qty 9	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365520
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84 Components (Dunn), Dunn, NC - 28334, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:26 2021 Page 1  
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Scale = 1:59.4

Plate Offsets (X,Y)--	[4:0-4-4,0-1-12], [5:0-4-4,0-1-12]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.14 8-9 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.28 8-9 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 168 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8  
 Max Horz 12=268(LC 11)  
 Max Uplift 12=-85(LC 12), 8=-61(LC 13)  
 Max Grav 12=1005(LC 1), 8=933(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-359/178, 3-4=-873/291, 4-5=-574/265, 5-6=-876/292, 6-7=-312/132, 2-12=-386/192, 7-8=-295/123  
 BOT CHORD 11-12=-170/689, 9-11=-38/546, 8-9=-93/623  
 WEBS 4-11=-61/326, 5-9=-87/378, 3-12=-751/80, 6-8=-770/133

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 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.



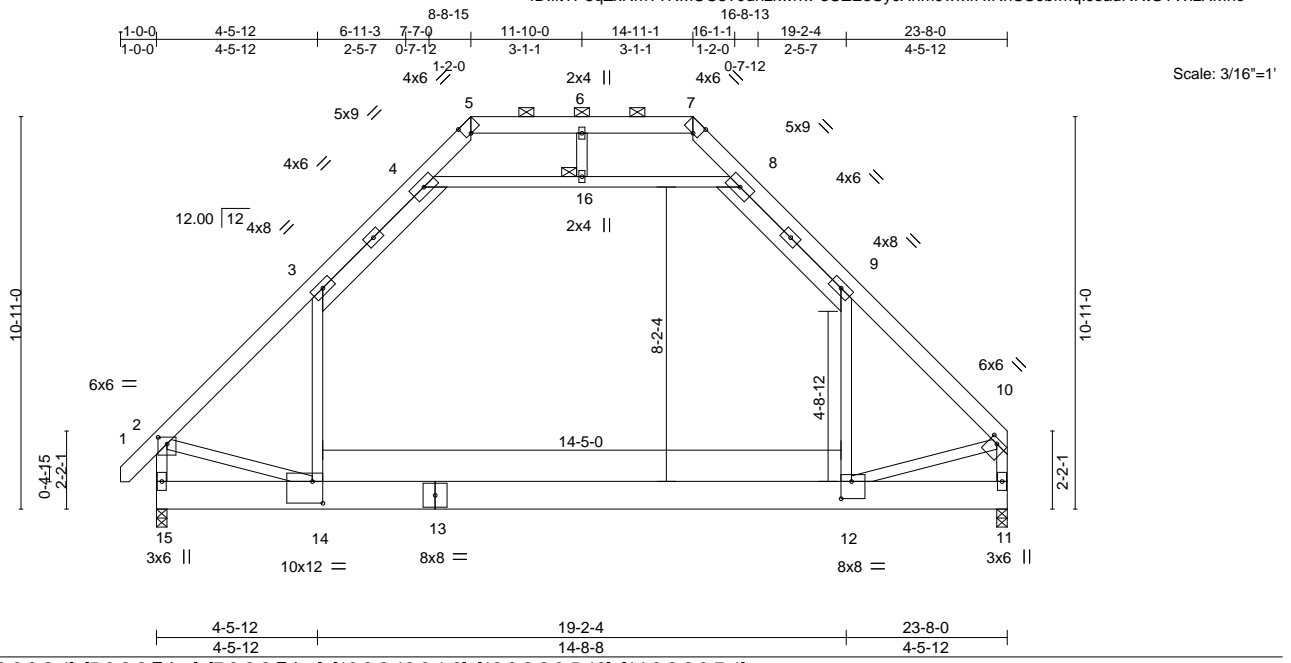
March 26, 2021

Job 26233-26233A	Truss D2	Truss Type ATTIC	Qty 4	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365521
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:27 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.32 12-14 >888 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.46 12-14 >605 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.22 12-14 789 360	Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5,7-10: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x10 SP No.2 *Except* 11-13: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-14,4-8,9-12: 2x4 SP No.2 or 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 16

**REACTIONS.** (size) 15=0-3-8, 11=0-3-8  
 Max Horz 15=290(LC 9)  
 Max Grav 15=1518(LC 2), 11=1465(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1641/0, 3-4=-1014/179, 4-5=-232/341, 5-6=-49/602, 6-7=-49/602, 7-8=-234/344,  
 8-9=-1012/181, 9-10=-1651/0, 2-15=-1689/18, 10-11=-1658/0  
 BOT CHORD 14-15=-274/328, 12-14=0/1039  
 WEBS 3-14=0/877, 4-16=-1511/113, 8-16=-1511/113, 9-12=0/881, 2-14=0/1004, 10-12=0/1006

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-16, 8-16; Wall dead load (5.0psf) on member(s).3-14, 9-12
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
  - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.



March 26, 2021

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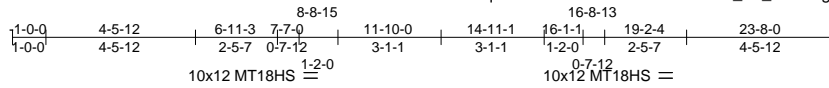
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 26233-26233A	Truss D2GR	Truss Type ATTIC GIRDER	Qty 1	Ply 2	TERRY HINSON JOB - JMS Job Reference (optional)	145365522
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:29 2021 Page 1

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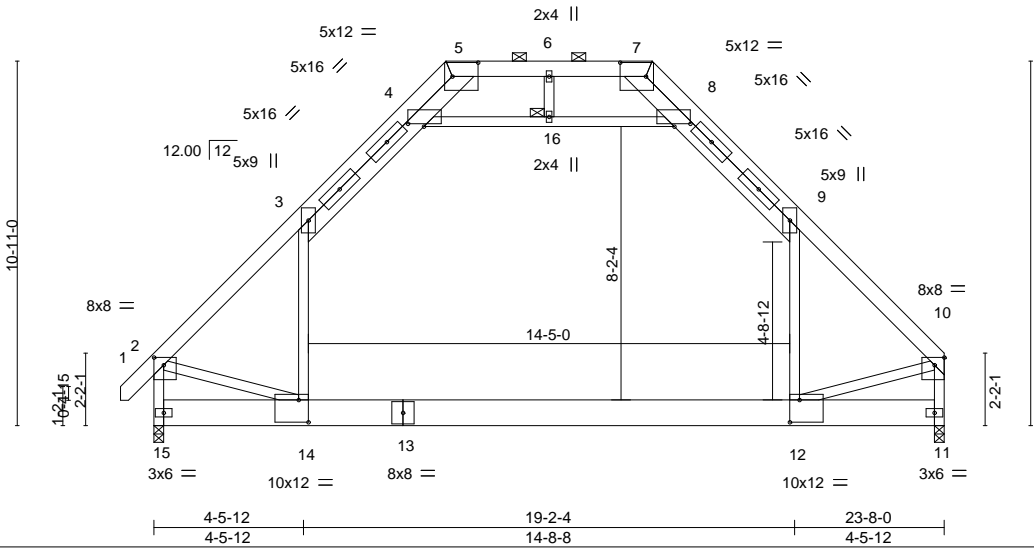


Plate Offsets (X,Y)-- [2:0-3-8,0-2-12], [4:0-5-12,0-1-0], [5:0-9-4,0-5-0], [7:0-9-4,0-5-0], [8:0-0-0,0-0-0], [8:0-0-0,0-0-0], [8:0-5-12,0-1-0], [9:0-0-0,0-0-0], [10:Edge,0-2-12], [12:0-3-8,0-8-0], [14:0-3-8,0-8-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.97	Vert(LL) -0.47	12-14	>596	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.69	12-14	>404	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.32	12-14	559	360		
							Weight: 495 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except* 2-14,10-12,6-16: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 16

**REACTIONS.** (size) 15=0-3-8, 11=0-3-8  
 Max Horz 15=290(LC 9)  
 Max Uplift 15=536(LC 12), 11=493(LC 13)  
 Max Grav 15=7649(LC 20), 11=7330(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-7549/572, 3-4=-4844/540, 4-5=-41/1056, 5-6=-153/2804, 6-7=-153/2804,  
 7-8=-41/1014, 8-9=-4889/541, 9-10=-7659/562, 2-15=-7861/664, 10-11=-7672/595  
 BOT CHORD 14-15=-316/715, 12-14=-321/4793, 11-12=-72/435  
 WEBS 3-14=-171/2871, 4-16=-7541/722, 8-16=-7541/722, 9-12=-167/2856, 2-14=-317/4508,  
 10-12=-327/4641, 6-16=-85/1257

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 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.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-16, 8-16; Wall dead load (5.0psf) on member(s).3-14, 9-12
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
  - Bearing at joint(s) 15, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connector is for uplift only and does not consider lateral forces.



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



Job 26233-26233A	Truss D2GR	Truss Type ATTIC GIRDER	Qty 1	Ply <b>2</b>	TERRY HINSON JOB - JMS Job Reference (optional)	I45365522
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:29 2021 Page 2  
ID:iitP8qZxRm?TNMUC3?0dnzkwnw-?th\_T8\_t3P0tAgpgPopwakgxLd\_GKNdkuBlabazXMna

**NOTES-**

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-180(F=-120), 2-3=-180(F=-120), 3-4=-190(F=-120), 4-5=-180(F=-120), 5-7=-180(F=-120), 7-8=-180(F=-120), 8-9=-190(F=-120), 9-10=-180(F=-120),  
14-15=-170(F=-150), 12-14=-180(F=-150), 11-12=-170(F=-150), 4-8=-10  
Drag: 3-14=-10, 9-12=-10

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818 Soundside Road  
Edenton, NC 27932

Job 26233-26233A	Truss D3	Truss Type ATTIC	Qty 8	Ply 1	TERRY HINSON JOB - JMS 145365523
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:30 2021 Page 1

ID:iitP8qZxRm?TNMUC3?0dnzkwnw-T3FMhU?Vqi8koqOszWK96xDAW1K32xQu7rU771zXMnZ

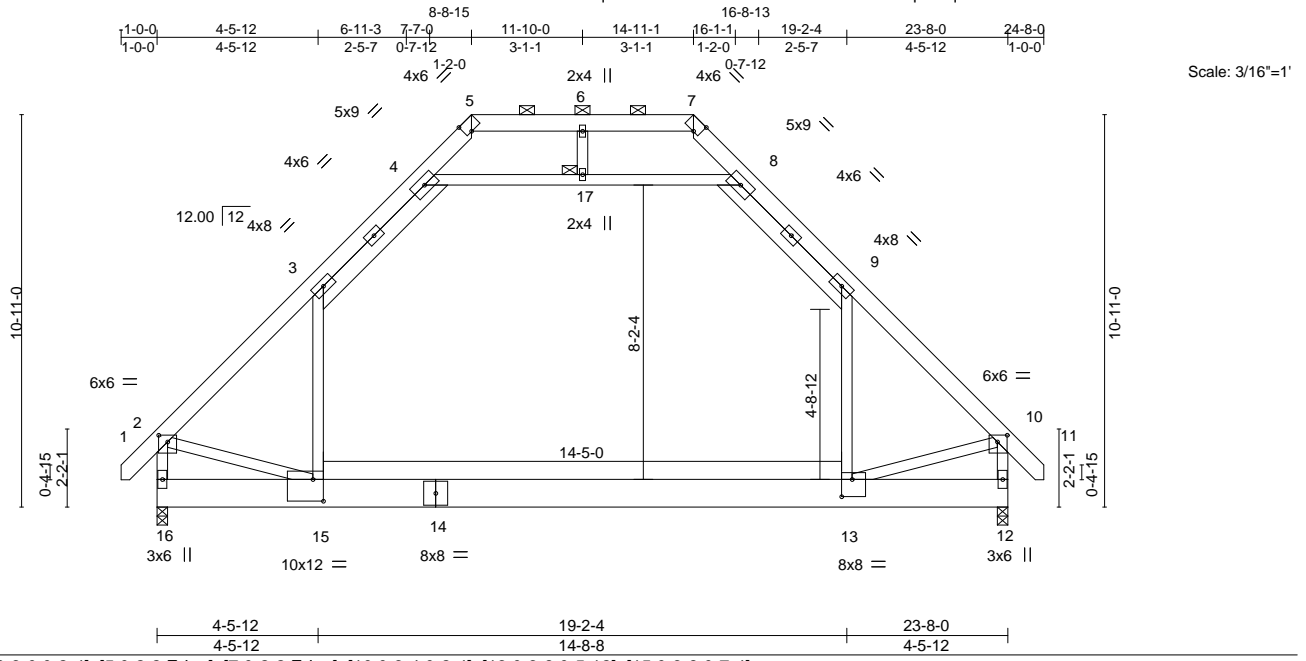


Plate Offsets (X,Y)--	[2:0-3-0,0-2-4], [5:0-2-2,Edge], [7:0-2-2,Edge], [10:0-3-4,0-2-4], [13:0-3-8,0-5-12], [15:0-3-8,0-7-4]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.32 13-15	>889	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.46 13-15	>606	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.22 13-15	790	360	Weight: 242 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* 1-5,7-11: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x10 SP No.2 *Except* 12-14: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-15,4-8,9-13: 2x4 SP No.2 or 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 17

**REACTIONS.** (size) 16=0-3-8, 12=0-3-8  
 Max Horz 16=299(LC 11)  
 Max Grav 16=1517(LC 2), 12=1517(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1638/0, 3-4=-1013/180, 4-5=-236/338, 5-6=-54/599, 6-7=-54/599, 7-8=-237/341,  
 8-9=-1010/181, 9-10=-1653/0, 2-16=-1686/20, 10-12=-1701/19  
 BOT CHORD 15-16=-264/345, 13-15=0/1049  
 WEBS 3-15=0/875, 4-17=-1507/115, 8-17=-1507/115, 9-13=0/890, 2-15=0/1001, 10-13=0/998

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
  - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
  - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 12. This connection is for uplift only and does not consider lateral forces.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.



March 26, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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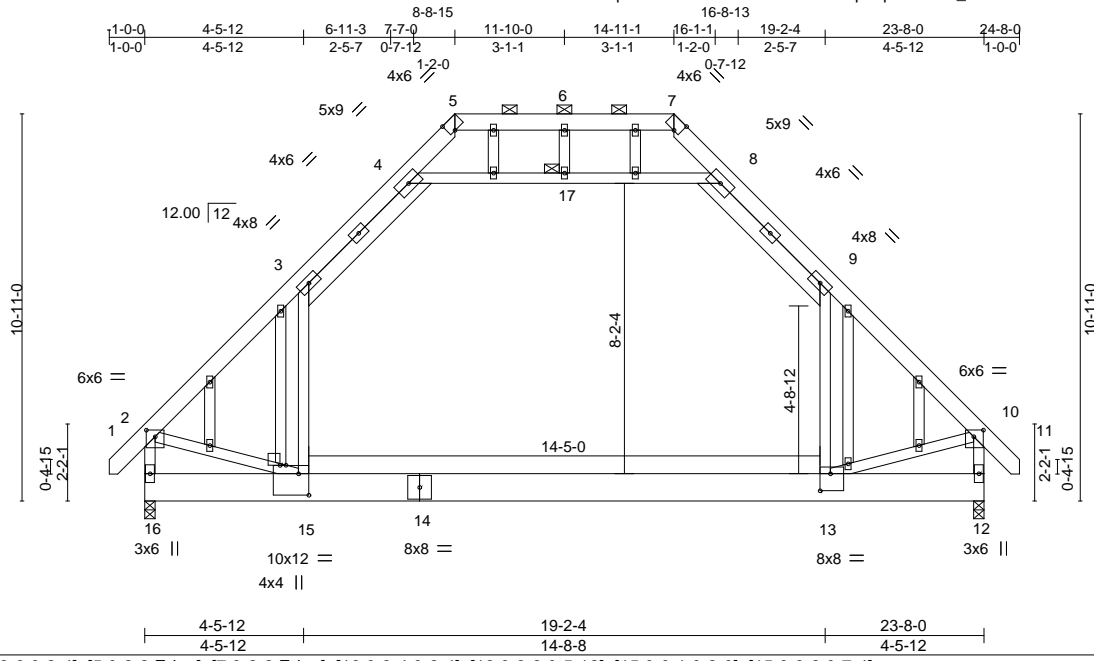
Job 26233-26233A	Truss D3E	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS 145365524
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:31 2021 Page 1

ID:itTP8qZxRm?TNMUC3?0dnzkwnw-xFpluq?7b0HbP\_z3XDrOf9mKGRflnOf1MVEgFTzXmN9



Scale = 1:65.0

Plate Offsets (X, Y)--	[2:0-3-0,0-2-4], [5:0-2-2,Edge], [7:0-2-2,Edge], [10:0-3-4,0-2-4], [13:0-3-8,0-5-12], [15:0-0-1,0-2-0], [15:0-3-8,0-7-4]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.32	13-15	>889	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.46	13-15	>606		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.22	13-15	790	360	
								Weight: 265 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* 1-5,7-11: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x10 SP No.2 *Except* 12-14: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-15,4-8,9-13: 2x4 SP No.2 or 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 17
OTHERS 2x4 SP No.3	

<b>REACTIONS.</b>	(size) 16=0-3-8, 12=0-3-8
	Max Horz 16=299(LC 11)
	Max Grav 16=1517(LC 2), 12=1517(LC 2)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1638/0, 3-4=-1013/180, 4-5=-236/338, 5-6=-54/599, 6-7=-54/599, 7-8=-237/341, 8-9=-1010/181, 9-10=-1653/0, 2-16=-1686/20, 10-12=-1701/19
BOT CHORD	15-16=-264/345, 13-15=0/1049
WEBS	3-15=0/875, 4-17=-1507/115, 8-17=-1507/115, 9-13=0/890, 2-15=0/1001, 10-13=0/998

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
  - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 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.
  - Attic room checked for L/360 deflection.



March 26, 2021

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Edenton, NC 27932

Job 26233-26233A	Truss DE	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365525
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:32 2021 Page 1

ID:iiTP8qZxRm?TNMUC3?0dnzkwnw-QSN7690LKPS18XF4xMdBMIdOrBAWweAa9zEBvzXMnX

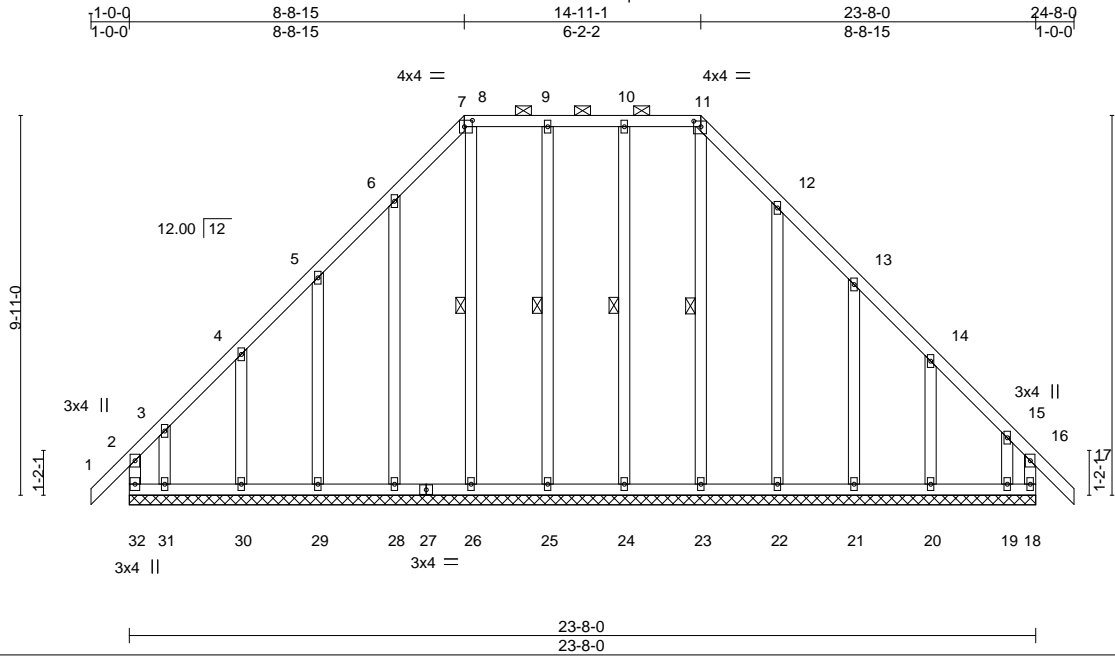


Plate Offsets (X, Y)--	[7:0-2-8,0-2-0], [11:0-2-4,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) -0.00 17 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.01 17 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.01 18 n/a n/a		
	Code IRC2015/TPI2014			Weight: 197 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-23, 10-24, 9-25, 8-26
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 23-8-0.

(lb) - Max Horz 32=-278(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 28, 30 except 32=-259(LC 8), 18=-241(LC 11), 29=-116(LC 12), 31=-264(LC 12), 22=-109(LC 13), 21=-110(LC 13), 20=-102(LC 13), 19=-282(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 28, 29, 30, 22, 21, 20 except 32=319(LC 9), 18=313(LC 8), 31=291(LC 10), 19=286(LC 11)

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

TOP CHORD 6-7=-273/335, 7-8=-212/268, 8-9=-212/268, 9-10=-212/268, 10-11=-212/268, 11-12=-274/335

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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.
  - 11) N/A
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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 Edenton, NC 27932

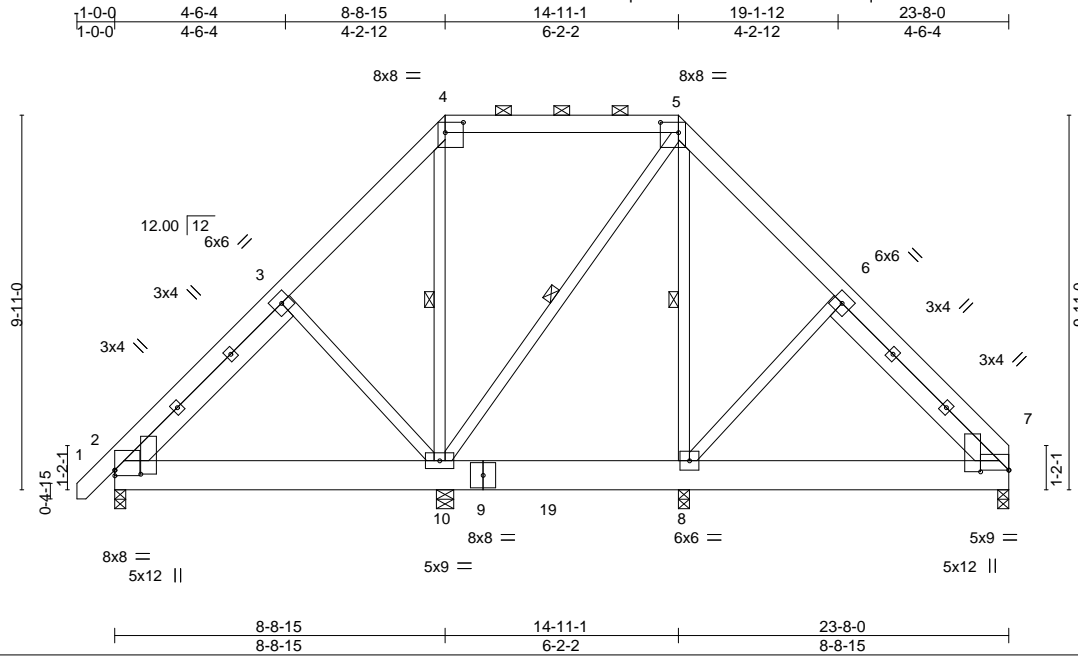
Job 26233-26233A	Truss DGR	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365526
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:34 2021 Page 1

ID:iiTP8qZxRm?TNMUC3?0dnzkwnw-MqUtXr2?txfAGRhdCMP5GnNrFenL\_lgT2TSLGozXMnV



Scale = 1:61.0

Plate Offsets (X, Y)--	[2:0-1-4,0-8-4], [2:0-0-0,0-1-12], [4:0-5-12,0-3-4], [5:0-5-12,0-3-4], [7:0-0-9,0-9-0]
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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 0.76	Vert(LL) 0.03	8-13	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.47	Vert(CT) -0.05	8-13	>999	180			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.47	Horz(CT) 0.01	2	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 256 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x10 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 4-10, 5-10, 5-8
SLIDER Left 2x6 SP No.2 -t 5-10-12, Right 2x6 SP No.2 -t 5-10-12	

**REACTIONS.** All bearings 0-3-8 except (jt=length) 10=0-5-8.  
 (lb) - Max Horz 2=232(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) except 7=-217(LC 13), 2=-229(LC 13), 10=-467(LC 12), 8=-376(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) except 7=1574(LC 1), 2=1654(LC 23), 10=2441(LC 1), 8=2090(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1156/233, 3-4=-568/161, 4-5=-266/176, 5-6=-722/202, 6-7=-1284/263  
 BOT CHORD 2-10=-213/653, 8-10=-111/395, 7-8=-108/689  
 WEBS 3-10=-652/294, 4-10=-727/187, 5-8=-450/83, 6-8=-647/292

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 7, 2, 10, 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.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-180(F=-120), 4-5=-180(F=-120), 5-7=-180(F=-120), 11-15=-140(F=-120)



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

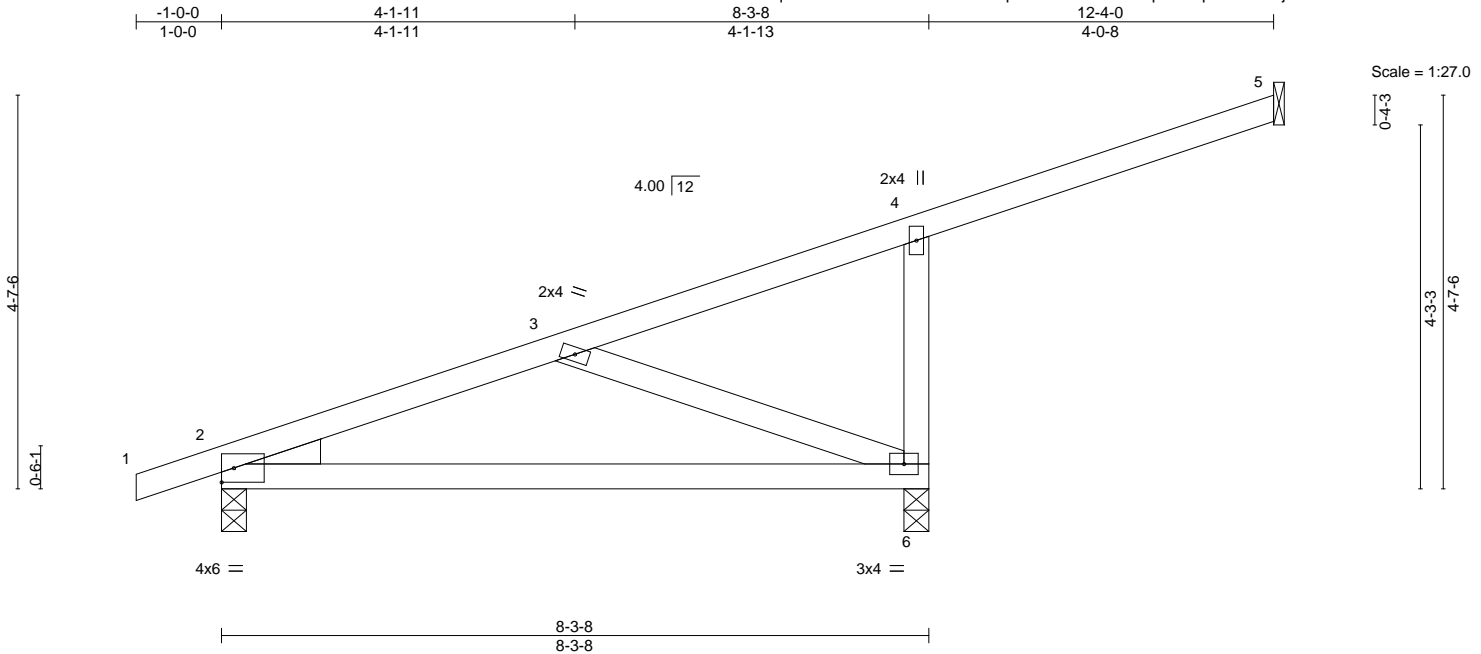


Job 26233-26233A	Truss M2	Truss Type Monopitch	Qty 15	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365527
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:35 2021 Page 1

ID:itTP8qZxRm?TNMUC3?0dnzkwnw-q12FkB2deFn0ubGqm3wKp?w4u25HjHbdG7CuoEzXMnU



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.14 6-9	>716	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.27 6-9	>356	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 45 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**

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

**REACTIONS.**

(size) 5=Mechanical, 2=0-3-8, 6=0-3-8  
 Max Horz 2=161(LC 9)  
 Max Uplift 5=-48(LC 12), 2=-65(LC 8), 6=-157(LC 12)  
 Max Grav 5=97(LC 1), 2=376(LC 1), 6=485(LC 1)

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

TOP CHORD 2-3=-431/112, 4-6=-280/241  
 BOT CHORD 2-6=-263/394  
 WEBS 3-6=-418/243

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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 48 lb uplift at joint 5.
- 6) 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.



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job 26233-26233A	Truss M2E	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365528
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:36 2021 Page 1

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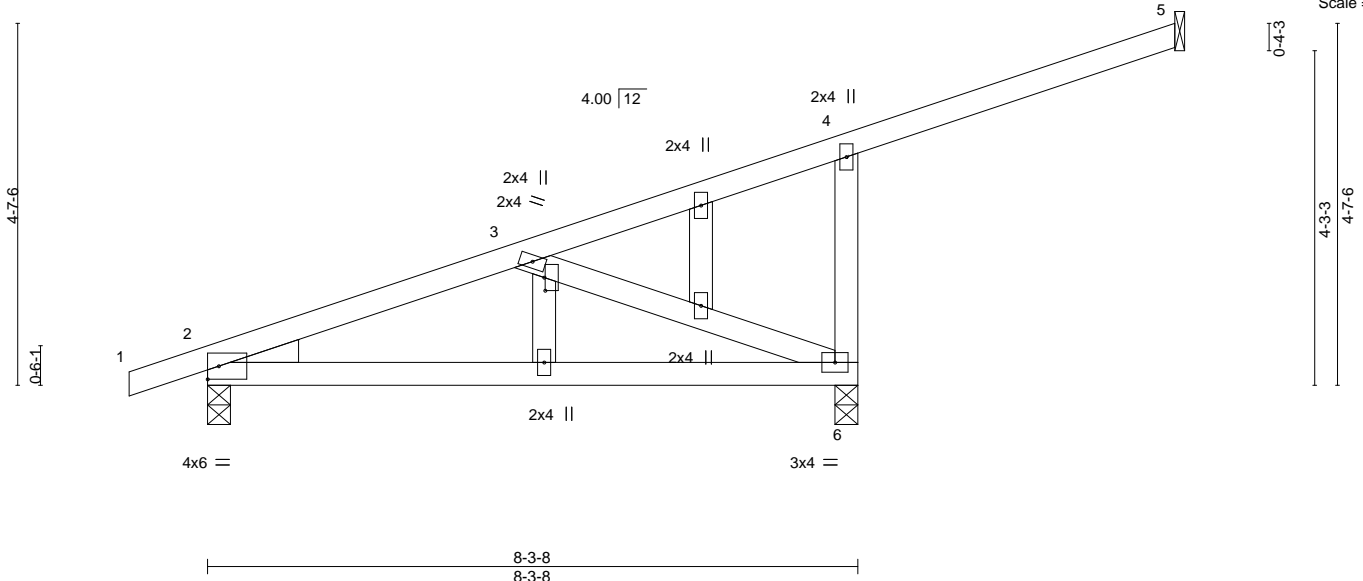


Plate Offsets (X,Y)--	[3:0-2-0,0-0-3]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.45	Vert(LL) -0.14	6-12	>716	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.61	Vert(CT) -0.27	6-12	>356	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.17	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 49 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=0-3-8  
 Max Horz 2=161(LC 9)  
 Max Uplift 5=-48(LC 12), 2=-65(LC 8), 6=-157(LC 12)  
 Max Grav 5=97(LC 1), 2=376(LC 1), 6=485(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-431/112, 4-6=-280/241  
 BOT CHORD 2-6=-263/394  
 WEBS 3-6=-418/243

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) Gable studs spaced at 2-0-0 oc.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 5.
  - 8) 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.



March 26, 2021

Job 26233-26233A	Truss PB1	Truss Type Piggyback	Qty 1	Ply 1	TERRY HINSON JOB - JMS 145365529 Job Reference (optional)
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:37 2021 Page 1

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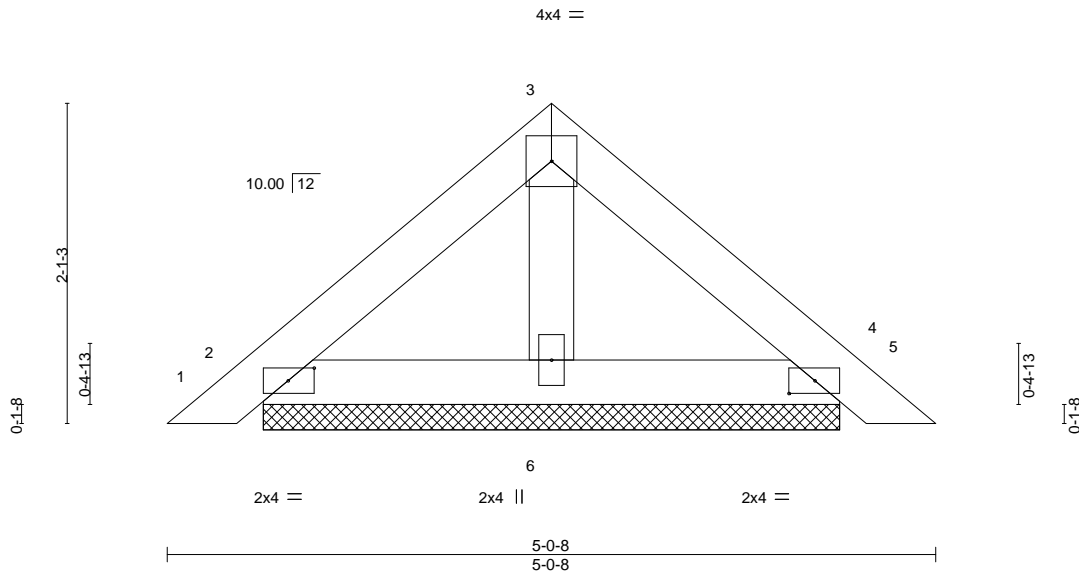


Plate Offsets (X, Y)--	[2:0-2-1,0-1-0], [4:0-2-1,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 5 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 17 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 2=3-9-6, 4=3-9-6, 6=3-9-6  
 Max Horz 2=-47(LC 10)  
 Max Uplift 2=-28(LC 12), 4=-34(LC 13)  
 Max Grav 2=113(LC 1), 4=113(LC 1), 6=124(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) N/A
  - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 26, 2021

Job 26233-26233A	Truss PB2	Truss Type Piggyback	Qty 17	Ply 1	TERRY HINSON JOB - JMS 145365530
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:37 2021 Page 1

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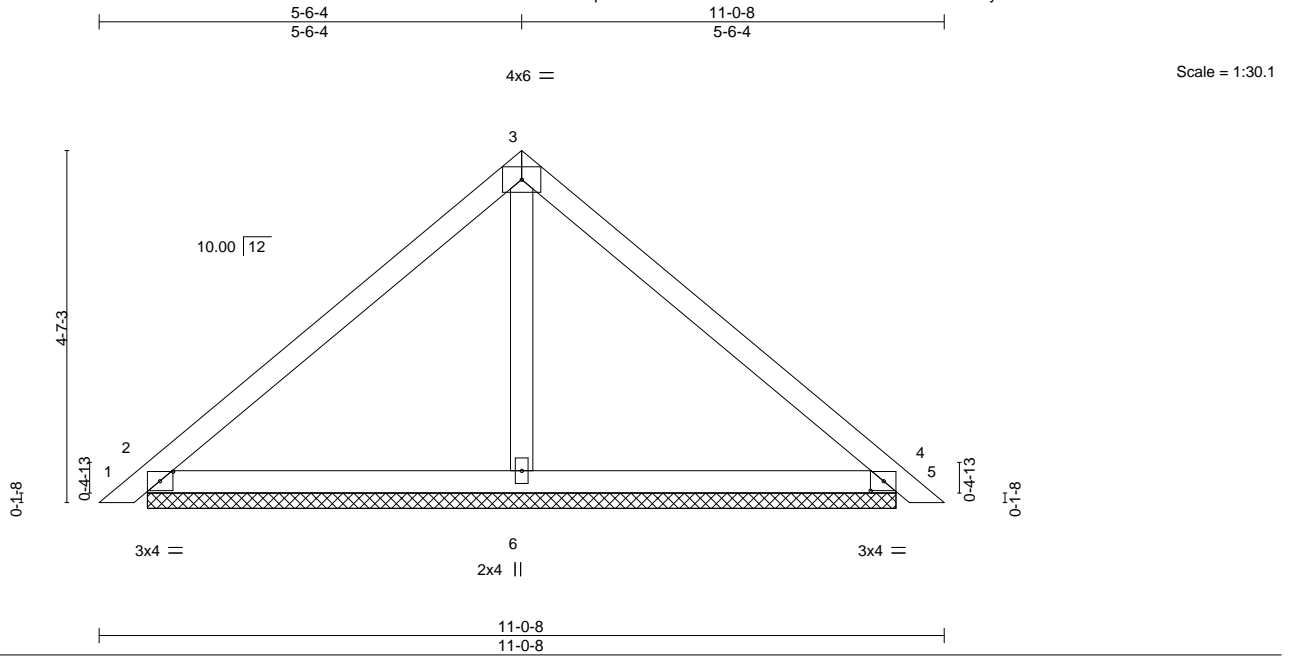


Plate Offsets (X,Y)--	[2:0-2-1,0-1-8], [4:0-2-1,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) 0.01 5 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) 0.02 5 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 42 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 2=9-9-6, 4=9-9-6, 6=9-9-6  
 Max Horz 2=-109(LC 10)  
 Max Uplift 2=-41(LC 12), 4=-55(LC 13), 6=-9(LC 12)  
 Max Grav 2=231(LC 1), 4=231(LC 1), 6=369(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) N/A
  - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 26, 2021

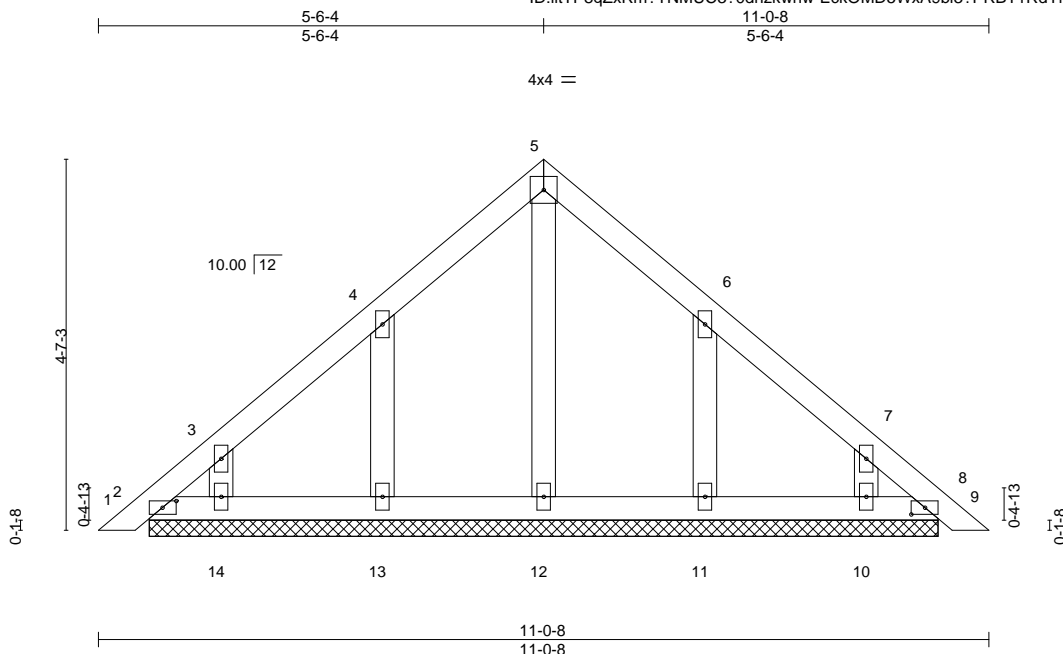
Job 26233-26233A	Truss PB2E	Truss Type Piggyback	Qty 2	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365531
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:38 2021 Page 1

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Plate Offsets (X,Y)--	[2:0-2-1,0-1-0], [8:0-2-1,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 8 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 8 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 50 lb	FT = 20%

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

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

**REACTIONS.** All bearings 9-9-6.  
(lb) - Max Horz 2--109(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 13, 11, 10  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 14, 13, 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) N/A
  - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 26, 2021

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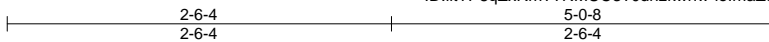
818 Soundside Road  
Edenton, NC 27932



Job 26233-26233A	Truss PB3	Truss Type Piggyback	Qty 1	Ply 1	TERRY HINSON JOB - JMS 145365532 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:39 2021 Page 1  
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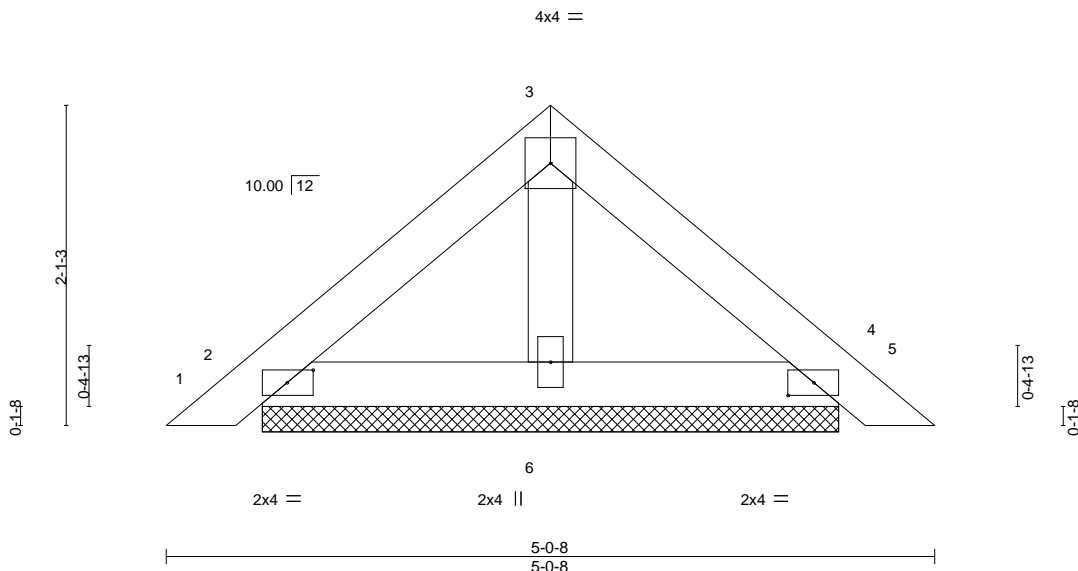


Plate Offsets (X, Y)--	[2:0-2-1,0-1-0], [4:0-2-1,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 5 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 17 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 2=3-9-6, 4=3-9-6, 6=3-9-6  
 Max Horz 2=-47(LC 10)  
 Max Uplift 2=-28(LC 12), 4=-34(LC 13)  
 Max Grav 2=113(LC 1), 4=113(LC 1), 6=124(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) N/A
  - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 26, 2021

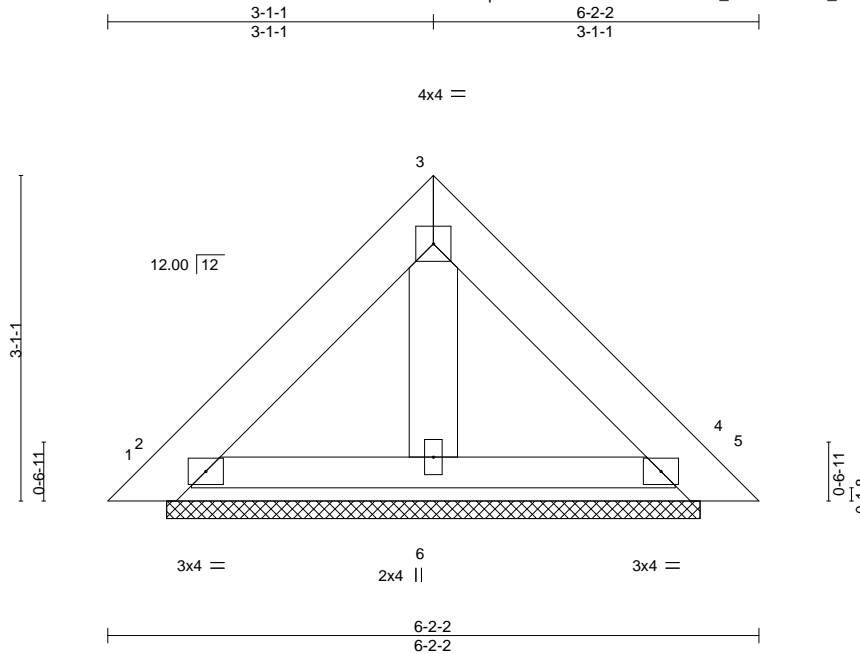
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 26233-26233A	Truss PB4	Truss Type Piggyback	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365533
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:40 2021 Page 1

ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-B\_s8nu6mTnPJ\_M9nYcVWV2d2j3w7OXIMQOVfUSzXMnP



Scale = 1:21.9

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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 32 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 OTHERS 2x6 SP No.2

**BRACING-**

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

**REACTIONS.**

All bearings 5-0-11.  
 (lb) - Max Horz 1=-68(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-126(LC 19), 2=-218(LC 12), 4=-202(LC 13), 6=-228(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=645(LC 19), 4=627(LC 20), 6=1543(LC 19)

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

TOP CHORD 2-3=-606/163, 3-4=-594/163  
 BOT CHORD 2-6=-45/376, 4-6=-45/376  
 WEBS 3-6=-1486/327

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- N/A
- N/A
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2172 lb down and 504 lb up at 3-1-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-2=-83, 2-3=-60, 3-4=-60, 4-5=-83, 2-4=-20



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Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job 26233-26233A	Truss PB4	Truss Type Piggyback	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	I45365533
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:40 2021 Page 2  
ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-B\_s8nu6mTnPJ\_M9nYcWVW2d2j3w7OXIMQOVfUSzXMnP

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 3=-2160(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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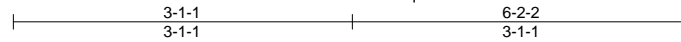
818 Soundside Road  
Edenton, NC 27932

Job 26233-26233A	Truss PB5	Truss Type Piggyback	Qty 28	Ply 1	TERRY HINSON JOB - JMS 145365534
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:41 2021 Page 1

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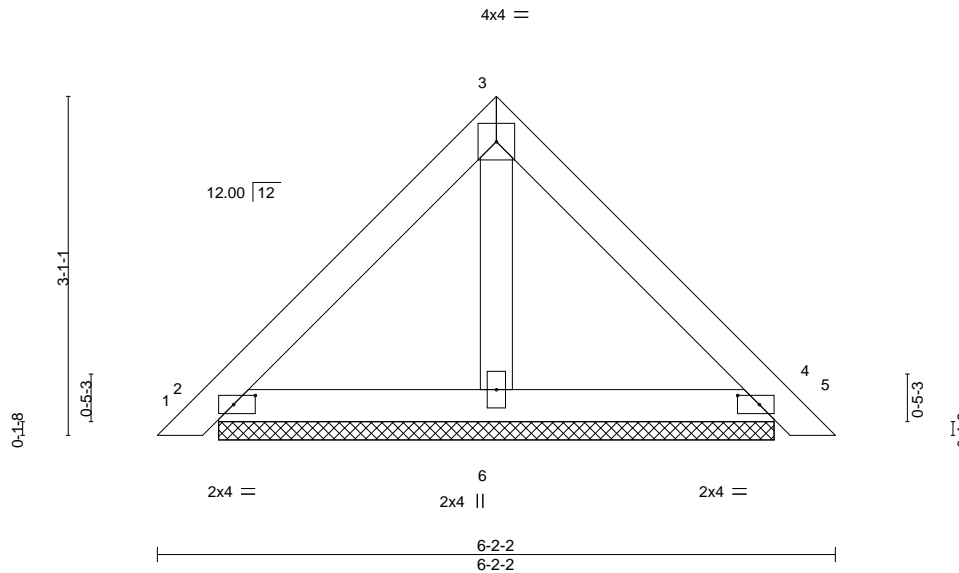


Plate Offsets (X, Y)--	[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) 0.00 5 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 5 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 24 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 2=5-0-11, 4=5-0-11, 6=5-0-11  
 Max Horz 2=-71(LC 10)  
 Max Uplift 2=-34(LC 13), 4=-39(LC 13)  
 Max Grav 2=145(LC 1), 4=145(LC 1), 6=158(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) N/A
  - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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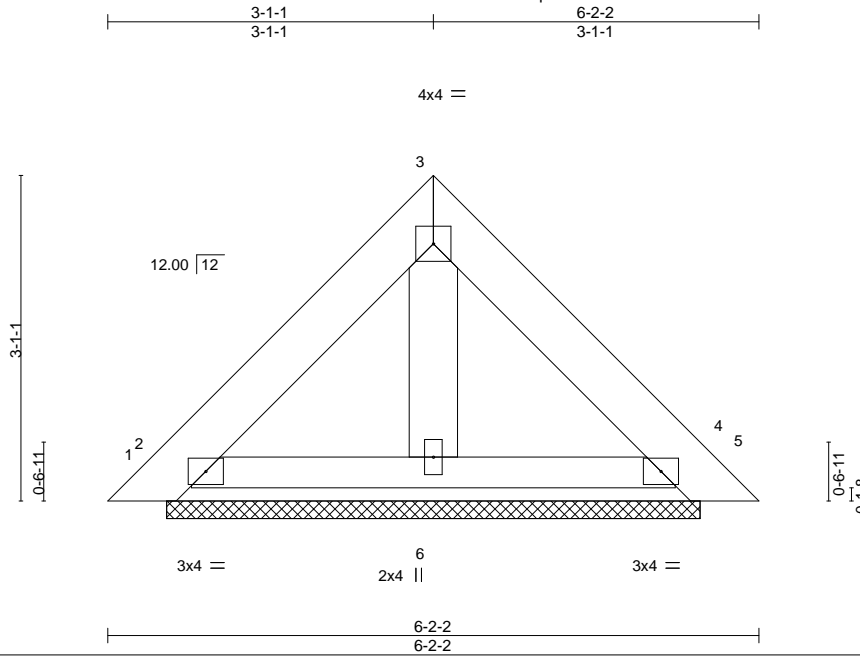
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 26233-26233A	Truss PB6	Truss Type Piggyback	Qty 1	Ply 2	TERRY HINSON JOB - JMS Job Reference (optional)	I45365535
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:42 2021 Page 1

ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-7NzvCa81?Of1EglAg1YzbTjOitdXsT?ftiOmYKzXMnN



Scale = 1:21.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 64 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 OTHERS 2x6 SP No.2

**BRACING-**

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

**REACTIONS.**

All bearings 5-0-11.  
 (lb) - Max Horz 1=-68(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-126(LC 19), 2=-218(LC 12), 4=-202(LC 13), 6=-228(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=645(LC 19), 4=627(LC 20), 6=1543(LC 19)

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

TOP CHORD 2-3=-606/163, 3-4=-594/163  
 BOT CHORD 2-6=-45/376, 4-6=-45/376  
 WEBS 3-6=-1486/327

**NOTES-**

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- N/A
- N/A
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2172 lb down and 504 lb up at 3-1-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

Continued on page 2



March 26, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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 Edenton, NC 27932



Job 26233-26233A	Truss PB6	Truss Type Piggyback	Qty 1	Ply <b>2</b>	TERRY HINSON JOB - JMS Job Reference (optional)	I45365535
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:42 2021 Page 2  
ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-7NzvCa81?Of1EglAg1YzbTjOitdXsT?ftiOmYKzXMnN

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-83, 2-3=-60, 3-4=-60, 4-5=-83, 2-4=-20  
Concentrated Loads (lb)  
Vert: 3=-2160(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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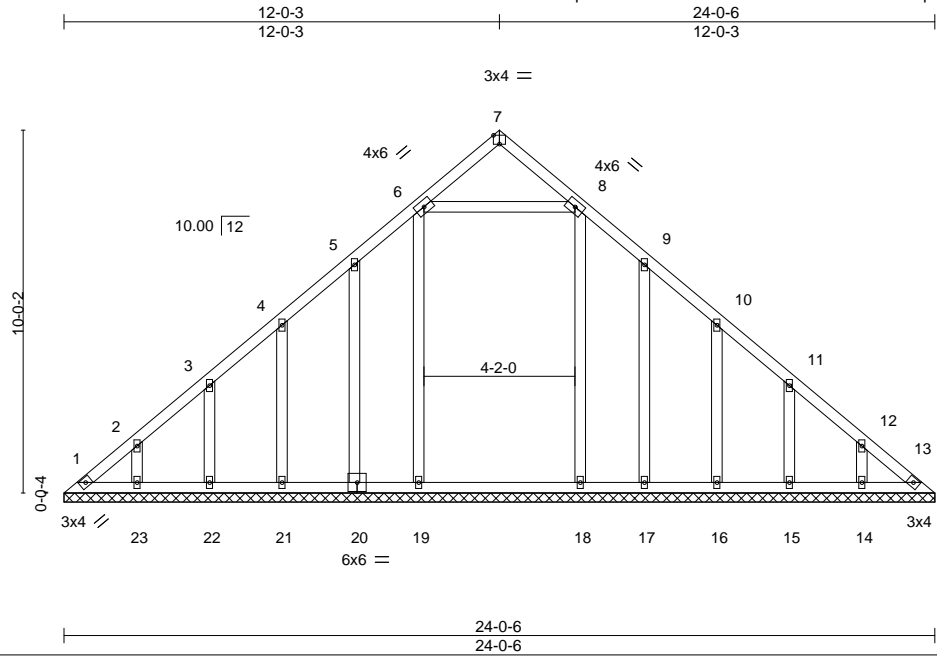
Job 26233-26233A	Truss V1	Truss Type GABLE	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365536
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:43 2021 Page 1

ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-bZXHPw9fminurqtMEI3C8hFZWGx\_btmo6M8J4mzXmNm



Scale: 3/16"=1'

Plate Offsets (X,Y)--	[7:0-2-0,Edge], [8:0-0-0,0-0-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.01 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 153 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 24-0-6.  
 (lb) - Max Horz 1--239(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 17, 16, 15, 14  
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 17, 16, 15, 14 except 19=363(LC 19), 18=320(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.



March 26, 2021

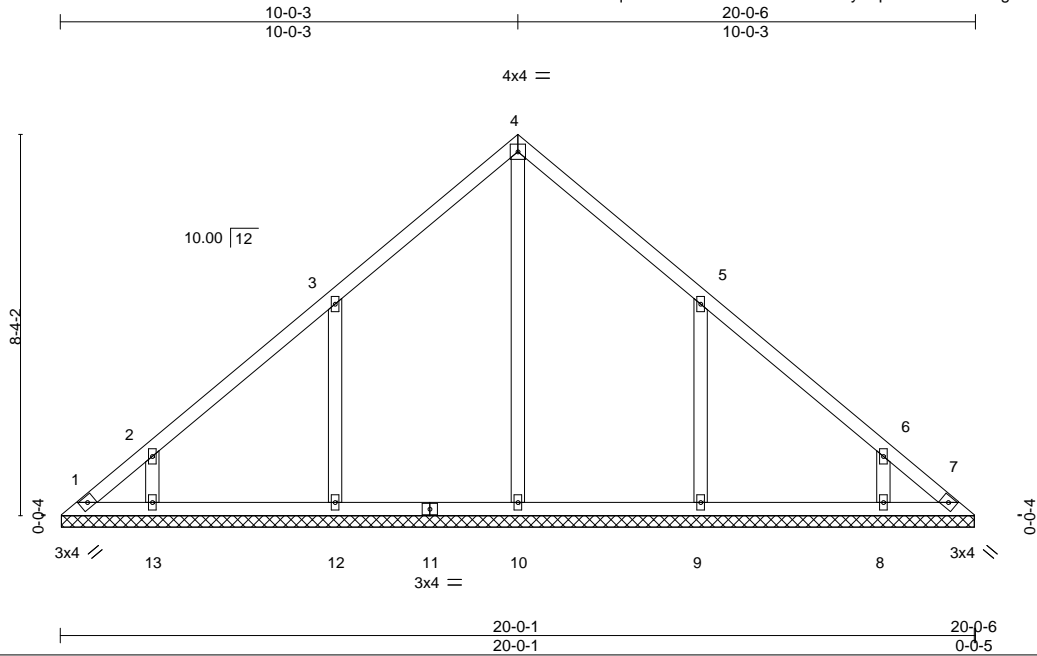
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job 26233-26233A	Truss V2	Truss Type Valley	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	I45365537
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:45 2021 Page 1  
ID:iitP8qZxRm?TNMUC3?0dnzkwnw-Xyf1qcAvlJ1c571L95gD6LsE4cE3nM5agdQ9fzXMnK



Scale = 1:50.4

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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 95 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF 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 19-11-12.  
 (lb) - Max Horz 1=198(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=187(LC 12), 13=133(LC 12), 9=187(LC 13), 8=133(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=388(LC 22), 12=442(LC 19), 13=274(LC 19), 9=442(LC 20), 8=274(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-12=-311/237, 5-9=-311/236

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.



March 26, 2021

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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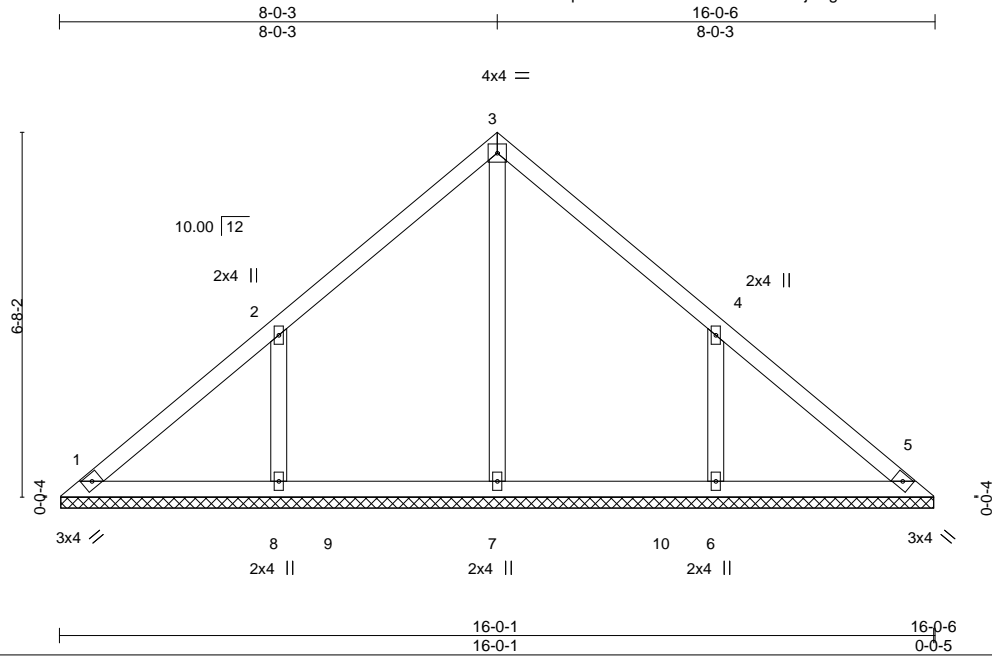
Job 26233-26233A	Truss V3	Truss Type Valley	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365538
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:49 2021 Page 1

ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-QjuYgzDQLYY1ZILWa?AcNyVV\_h\_N?dohUIbdIqzXMnG



Scale = 1:42.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 71 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF 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 15-11-12.  
 (lb) - Max Horz 1=-157(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-193(LC 12), 6=-193(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=357(LC 22), 8=424(LC 19), 6=424(LC 20)

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

WEBS 2-8=-315/236, 4-6=-315/236

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.



March 26, 2021

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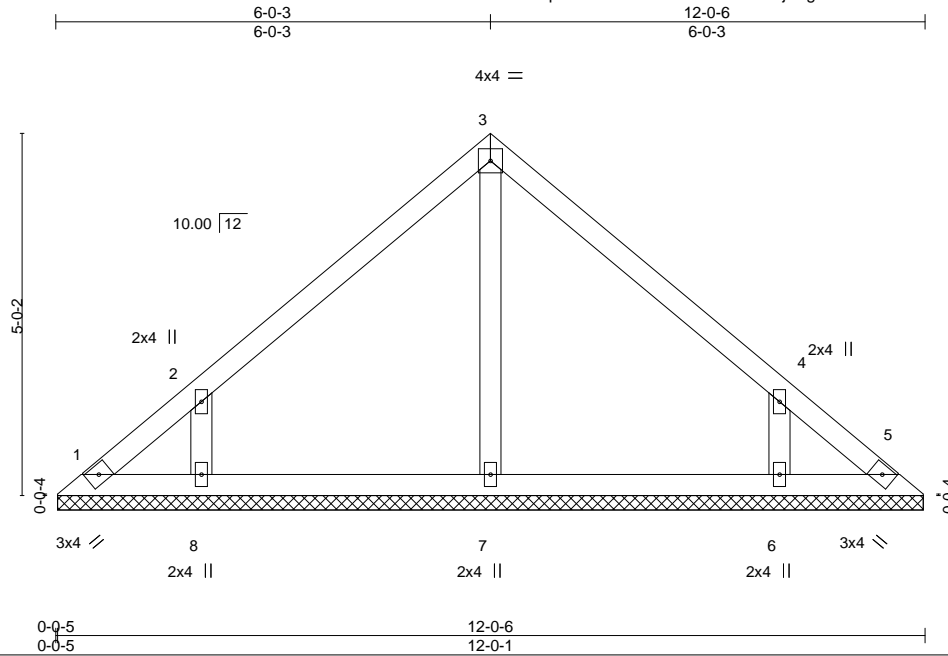
Job 26233-26233A	Truss V4	Truss Type Valley	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365539
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84 Components (Dunn),

Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:49 2021 Page 1

ID:iitTP8qZxRm?TNMUC3?0dnzkwnw-QjuYgzDQLYY1ZILWa?AcNyVWThzq?dYhUIbdIqzXmNg



Scale: 3/8"=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 0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 49 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 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 11-11-12.  
 (lb) - Max Horz 1=116(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=163(LC 12), 6=163(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=322(LC 19), 6=321(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-272/206, 4-6=-272/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

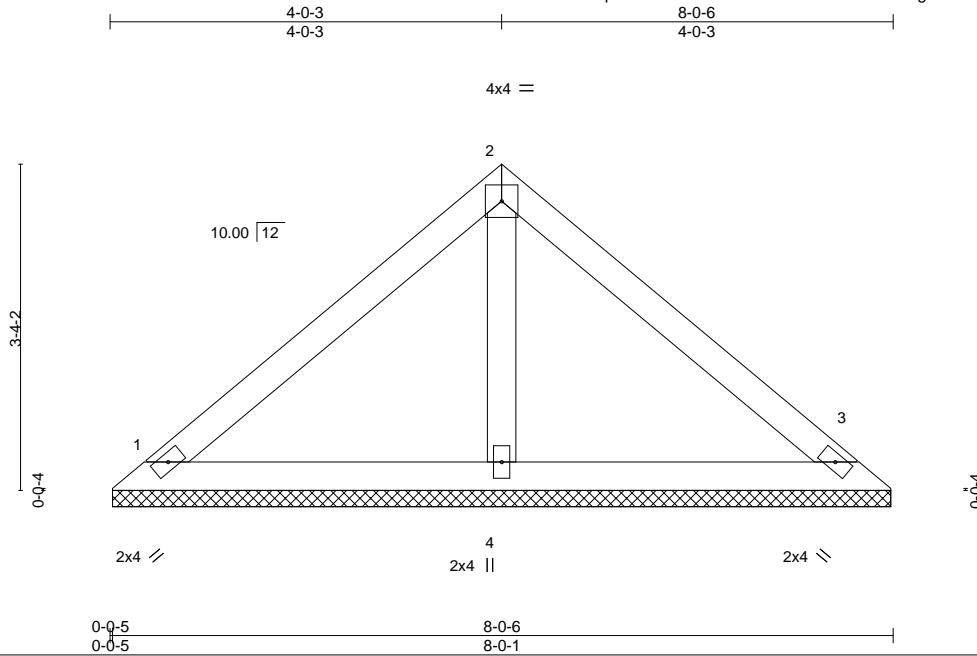


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Job 26233-26233A	Truss V5	Truss Type Valley	Qty 1	Ply 1	TERRY HINSON JOB - JMS Job Reference (optional)	145365540
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84 Components (Dunn), Dunn, NC - 28334,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 14:29:50 2021 Page 1  
ID:iiTP8qZxRm?TNMUC3?Odnzkwnw-uvSwtJE26sguBvwi8jhrw92fV5Jqk5HqjKBQtzXMnF



Scale = 1:23.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** (size) 1=7-11-12, 3=7-11-12, 4=7-11-12  
Max Horz 1=74(LC 9)  
Max Uplift 1=34(LC 13), 3=44(LC 13)  
Max Grav 1=164(LC 1), 3=164(LC 1), 4=250(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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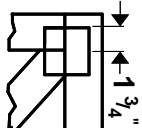


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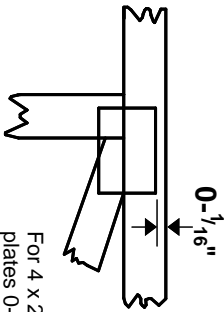


# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

**4 X 4**

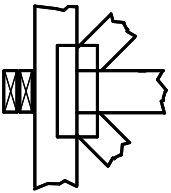
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



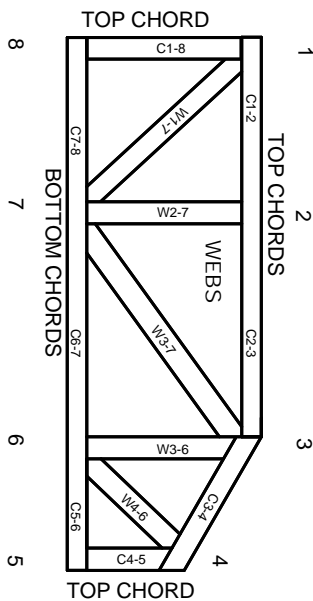
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.