

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 29043-29043A
WEST-SHERMAN 106-21-180

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: I48675510 thru I48675593

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

North Carolina COA: C-0844



November 5, 2021

Sevier, Scott

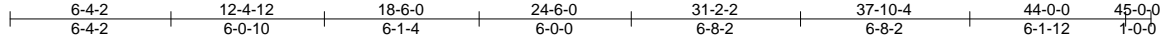
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job 29043-29043A	Truss A	Truss Type Roof Special	Qty 3	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675510
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:05 2021 Page 1

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6.00 $\sqrt{12}$ 6x6 =

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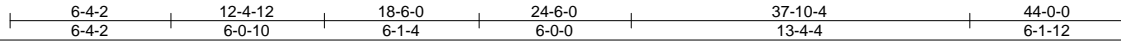
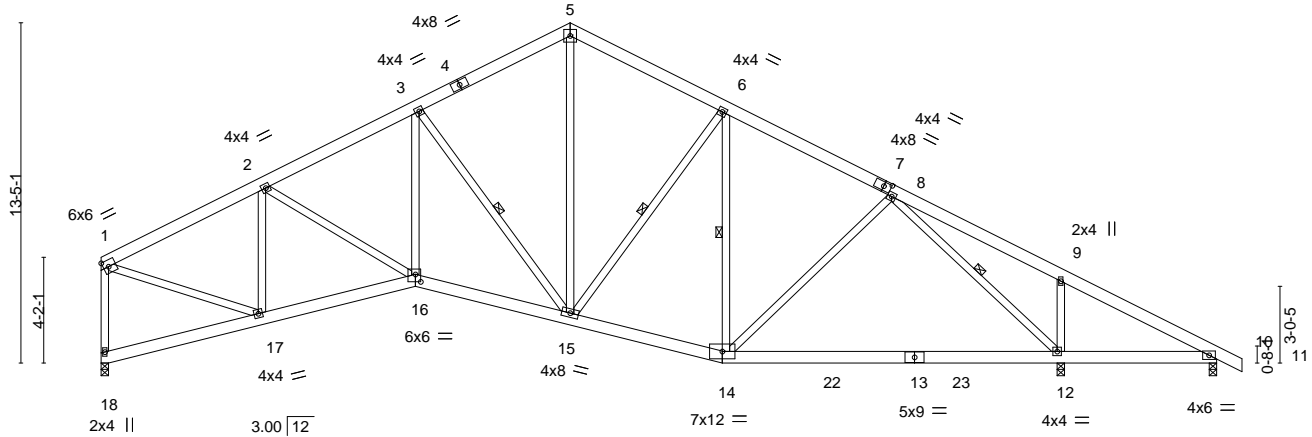


Plate Offsets (X,Y)-- [7:0-3-9,0-2-0], [16:0-2-8,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.28	12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.51	12-14	>882	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.10	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 355 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12.
WEBS 1 Row at midpt 3-15, 6-15, 6-14, 8-12

REACTIONS.

(size) 18=0-3-8, 12=0-3-8, 10=0-3-8
Max Horz 18=-308(LC 13)
Max Uplift 18=-164(LC 12), 12=-197(LC 13), 10=-74(LC 13)
Max Grav 18=1486(LC 1), 12=1910(LC 1), 10=207(LC 24)

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

TOP CHORD 1-2=-1733/392, 2-3=-2101/524, 3-5=-1452/522, 5-6=-1456/523, 6-8=-1527/505, 1-18=-1434/344
BOT CHORD 17-18=-117/327, 16-17=-220/1541, 15-16=-150/1869, 14-15=-86/1337, 12-14=-164/1145
WEBS 2-17=-759/253, 2-16=0/376, 3-16=-60/724, 3-15=-985/262, 5-15=-280/874, 6-15=-231/257, 6-14=-281/79, 8-14=0/279, 8-12=-1712/382, 9-12=-417/289, 1-17=-288/1559

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 18 considers parallel to grain value using ANSI/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) 18, 12, and 10. This connection is for uplift only and does not consider lateral forces.



November 5, 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



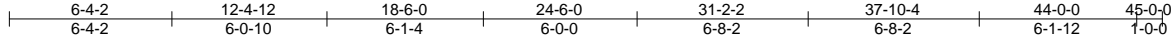
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss A1	Truss Type Roof Special	Qty 4	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675511
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:06 2021 Page 1

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6.00 | 12 | 6x6 =

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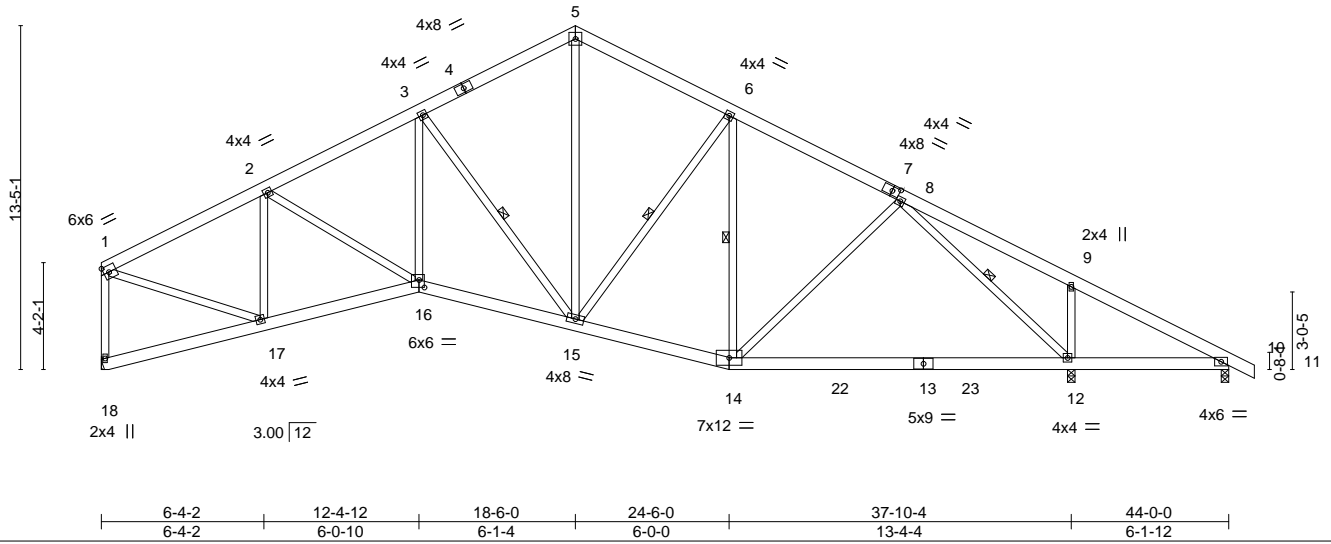


Plate Offsets (X,Y)-- [7:0-3-9,0-2-0], [16:0-2-8,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.28	12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.51	12-14	>882	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.10	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 355 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12.
 WEBS 1 Row at midpt 3-15, 6-15, 6-14, 8-12

REACTIONS. (size) 18=Mechanical, 12=0-3-8, 10=0-3-8
 Max Horz 18=-308(LC 13)
 Max Uplift 18=-164(LC 12), 12=-197(LC 13), 10=-74(LC 13)
 Max Grav 18=1486(LC 1), 12=1910(LC 1), 10=207(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1733/392, 2-3=-2101/524, 3-5=-1452/522, 5-6=-1456/523, 6-8=-1527/505, 1-18=-1434/344
 BOT CHORD 17-18=-117/327, 16-17=-220/1541, 15-16=-150/1869, 14-15=-86/1337, 12-14=-164/1145
 WEBS 2-17=-759/253, 2-16=0/376, 3-16=-60/724, 3-15=-985/262, 5-15=-280/874, 6-15=-231/257, 6-14=-281/79, 8-14=0/279, 8-12=-1712/382, 9-12=-417/289, 1-17=-288/1559

- 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=164.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 10. This connection is for uplift only and does not consider lateral forces.



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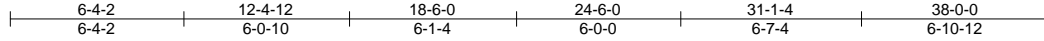
Job 29043-29043A	Truss A2	Truss Type Roof Special	Qty 2	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675512
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:07 2021 Page 1

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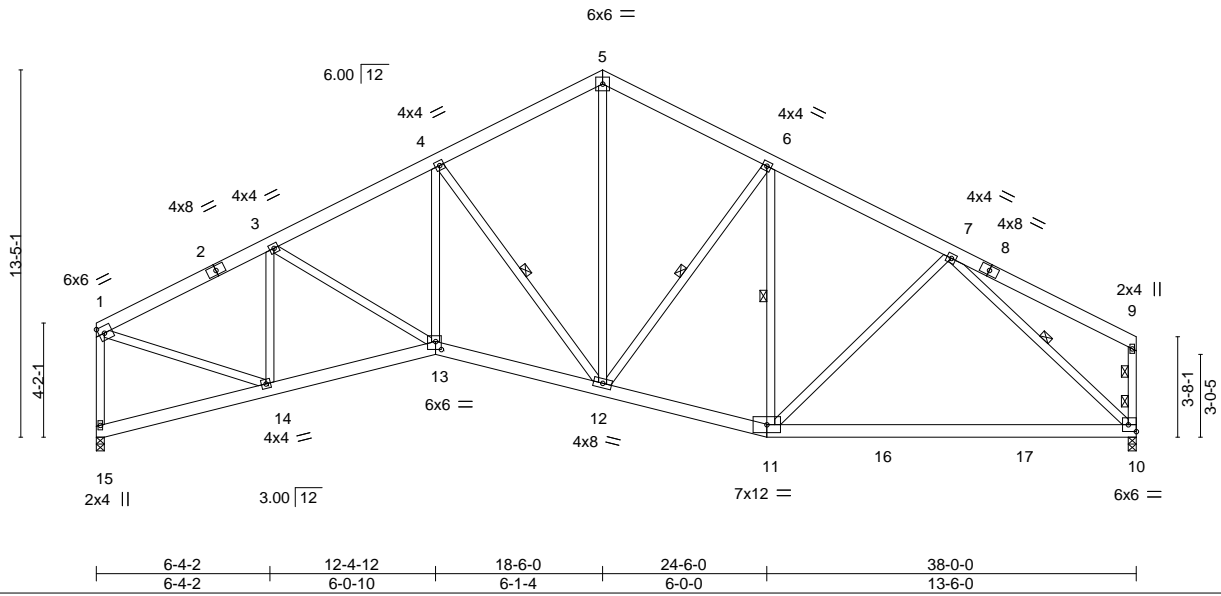


Plate Offsets (X,Y)-- [10:Edge,0-3-0], [13:0-2-8,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.38 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.72 10-11 >626 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 323 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 10-11.
 WEBS 1 Row at midpt 4-12, 6-12, 6-11, 7-10
 2 Rows at 1/3 pts 9-10

REACTIONS.

(size) 15=0-3-8, 10=0-3-8
 Max Horz 15=-173(LC 13)
 Max Uplift 15=-160(LC 12), 10=-166(LC 13)
 Max Grav 15=1508(LC 1), 10=1508(LC 1)

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

TOP CHORD 1-3=-1762/436, 3-4=-2146/591, 4-5=-1492/539, 5-6=-1495/540, 6-7=-1598/494, 1-15=-1456/378
 BOT CHORD 13-14=-315/1568, 12-13=-312/1911, 11-12=-230/1396, 10-11=-310/1239
 WEBS 3-14=-776/277, 3-13=0/393, 4-13=-101/733, 4-12=-993/302, 5-12=-294/907, 6-12=-283/211, 1-14=-330/1587, 7-10=-1660/453

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/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) 15 and 10. This connection is for uplift only and does not consider lateral forces.



November 5, 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 29043-29043A	Truss AH	Truss Type Roof Special Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675513
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84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:11 2021 Page 1

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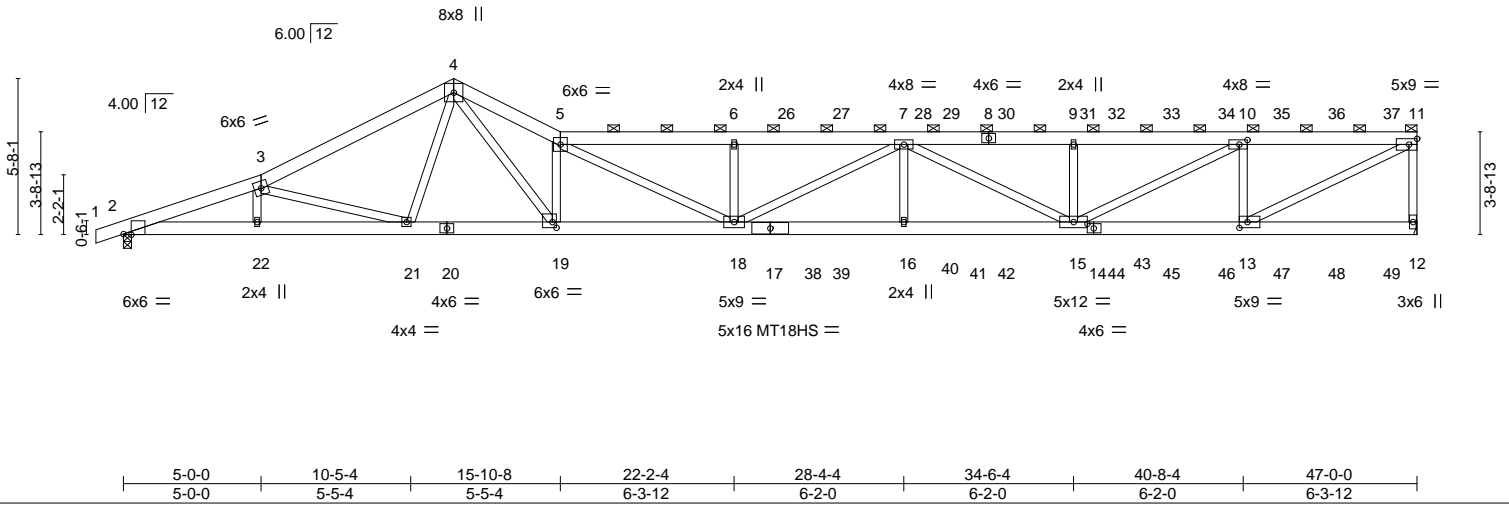


Plate Offsets (X,Y)-- [2:0-3-6,Edge], [10:0-3-8,0-2-0], [13:0-3-8,0-2-8], [14:0-2-12,0-2-0], [19:0-1-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.59 16-18 >957 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -1.17 16-18 >481 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Horz(CT) 0.15 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 655 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-0 max.): 5-11.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-19: 2x4 SP No.1 7-18,7-15,10-15,11-13: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS. (size) 12=Mechanical, 2=0-3-8
 Max Horz 2=168(LC 35)
 Max Uplift 12=-742(LC 13), 2=-411(LC 12)
 Max Grav 12=3824(LC 1), 2=3013(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-8197/1709, 3-4=-6820/1434, 4-5=-12049/2542, 5-6=-13946/2856, 6-7=-13946/2856, 7-9=-10709/2213, 9-10=-10709/2213, 10-11=-6378/1323, 11-12=-3661/848
 BOT CHORD 2-22=-1714/7753, 21-22=-1724/7768, 19-21=-1222/5778, 18-19=-2310/11117, 16-18=-2751/13346, 15-16=-2751/13346, 13-15=-1323/6378
 WEBS 3-21=-1797/483, 4-21=-136/922, 4-19=-1749/8614, 5-19=-6973/1506, 5-18=-741/3308, 6-18=-494/249, 7-18=-119/679, 7-16=0/517, 7-15=-2986/609, 9-15=-635/338, 10-15=-1008/4904, 10-13=-3030/866, 11-13=-1479/7138

- 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: 2x6 - 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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=742.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This



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Continued on page 2 for uplift only and does not consider lateral forces.

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 ANSITPI 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	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	I48675513
29043-29043A	AH	Roof Special Girder	1	2	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:11 2021 Page 2
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NOTES-

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 23-11-4, 139 lb down and 120 lb up at 25-11-4, 139 lb down and 120 lb up at 27-11-4, 139 lb down and 120 lb up at 29-11-4, 139 lb down and 120 lb up at 31-11-4, 139 lb down and 120 lb up at 33-11-4, 139 lb down and 120 lb up at 35-11-4, 139 lb down and 120 lb up at 37-11-4, 139 lb down and 120 lb up at 39-11-4, 139 lb down and 120 lb up at 41-11-4, and 139 lb down and 120 lb up at 43-11-4, and 140 lb down and 118 lb up at 45-11-4 on top chord, and 1135 lb down and 212 lb up at 22-1-8, 73 lb down at 23-11-4, 73 lb down at 25-11-4, 73 lb down at 27-11-4, 73 lb down at 29-11-4, 73 lb down at 31-11-4, 73 lb down at 33-11-4, 73 lb down at 35-11-4, 73 lb down at 37-11-4, 73 lb down at 39-11-4, 73 lb down at 41-11-4, and 73 lb down at 43-11-4, and 74 lb down at 45-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-11=-60, 12-23=-20

Concentrated Loads (lb)

Vert: 18=-1135(F) 26=-99(F) 27=-99(F) 28=-99(F) 29=-99(F) 30=-99(F) 31=-99(F) 32=-99(F) 33=-99(F) 34=-99(F) 35=-99(F) 36=-99(F) 37=-101(F) 38=-59(F) 39=-59(F) 40=-59(F) 41=-59(F) 42=-59(F) 43=-59(F) 44=-59(F) 45=-59(F) 46=-59(F) 47=-59(F) 48=-59(F) 49=-60(F)

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



818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss AH1	Truss Type Roof Special	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675514
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:13 2021 Page 1

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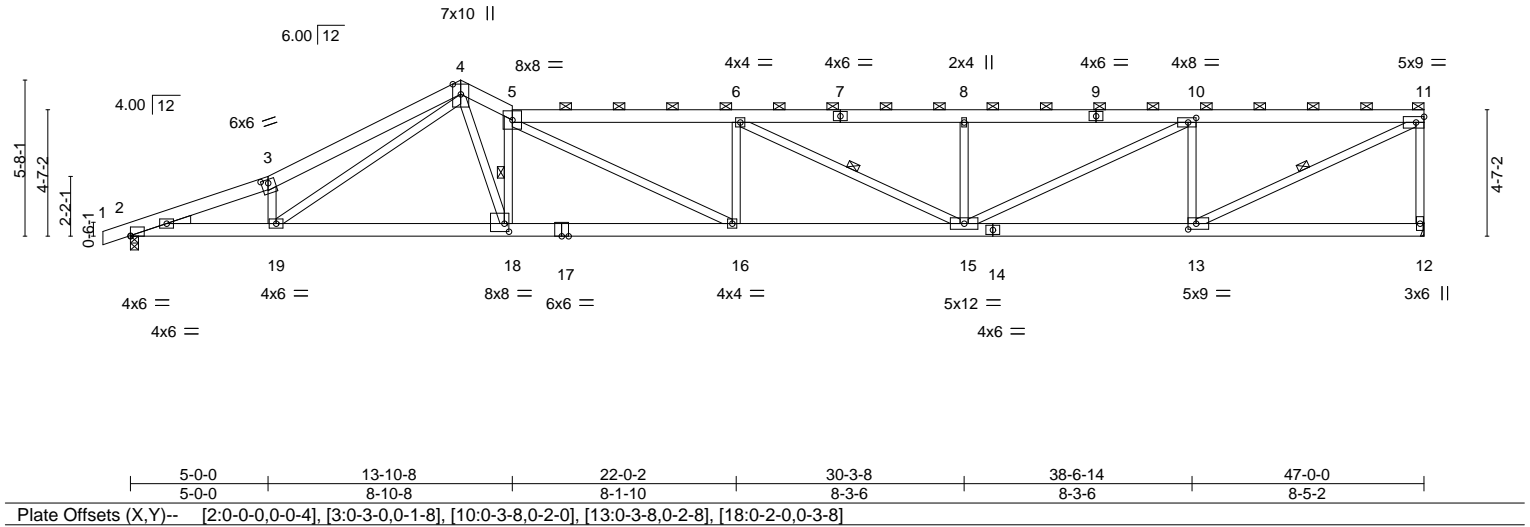


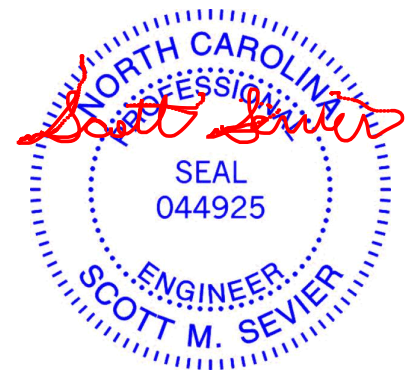
Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [3:0-3-0,0-1-8], [10:0-3-8,0-2-0], [13:0-3-8,0-2-8], [18:0-2-0,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.44 15-16 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.88 15-16 >636 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.12 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 329 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-3 max.): 5-11.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-18,5-16,6-15,10-15,11-13: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 5-18, 6-15, 11-13

WEDGE Left: 2x4 SP No.3	REACTIONS. (size) 12=Mechanical, 2=0-3-8 Max Horz 2=187(LC 12) Max Uplift 12=-320(LC 13), 2=-171(LC 13) Max Grav 12=1874(LC 1), 2=1935(LC 1)
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5022/1033, 3-4=-5249/1184, 4-5=-4859/1069, 5-6=-5374/1134, 6-8=-4920/1012, 8-10=-4920/1012, 10-11=-3196/650, 11-12=-1792/416
BOT CHORD 2-19=-1109/4737, 18-19=-739/3274, 16-18=-958/4422, 15-16=-1133/5372, 13-15=-650/3196
WEBS 3-19=-1011/367, 4-19=-424/1727, 4-18=-617/3311, 5-18=-2899/675, 5-16=-280/1201, 6-16=-407/230, 6-15=-505/135, 8-15=-469/216, 10-15=-405/1927, 10-13=-1407/434, 11-13=-718/3532

- 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;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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=320.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 29043-29043A	Truss AH2	Truss Type Half Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675515
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:16 2021 Page 1

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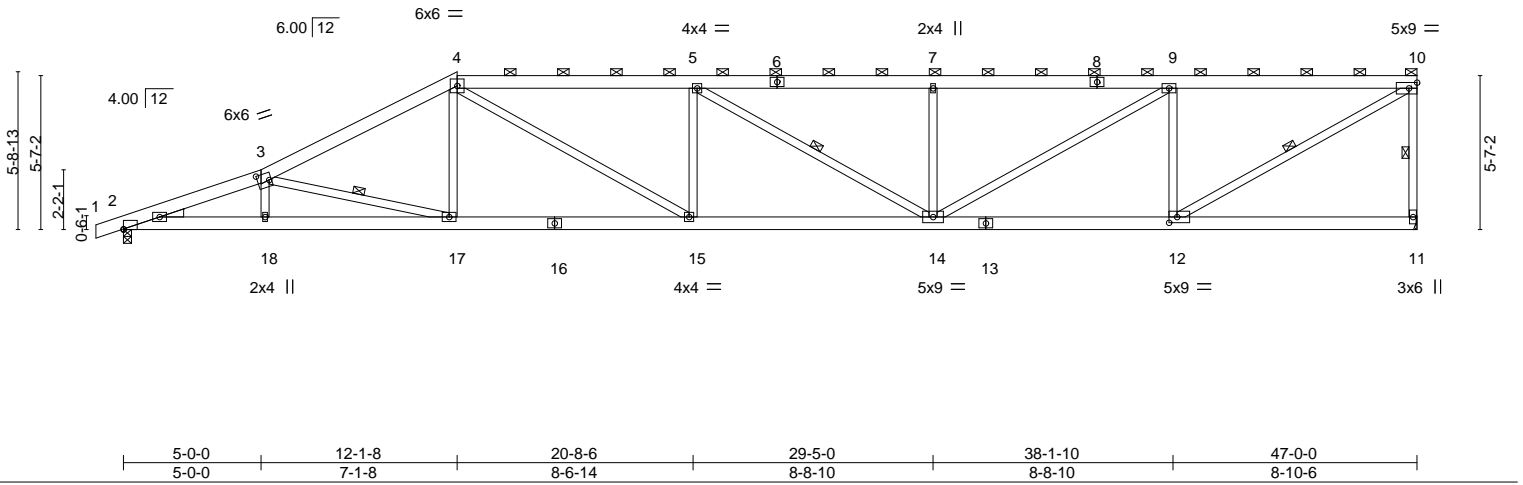


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [3:0-5-0,0-3-4], [12:0-3-8,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.30	14-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.61	14-15	>922	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.11	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 331 lb	FT = 20%

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

WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 11=Mechanical, 2=0-3-8
Max Horz 2=209(LC 12)
Max Uplift 11=-327(LC 9), 2=-221(LC 8)
Max Grav 11=1874(LC 1), 2=1935(LC 1)

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

TOP CHORD 2-3=-5052/1034, 3-4=-3777/779, 4-5=-4301/923, 5-7=-4067/848, 7-9=-4067/848, 9-10=-2693/552, 10-11=-1793/422

BOT CHORD 2-18=-1153/4773, 17-18=-1145/4772, 15-17=-758/3321, 14-15=-922/4299, 12-14=-552/2693

WEBS 3-17=-1477/399, 4-17=-14/639, 4-15=-290/1282, 5-15=-500/259, 5-14=-270/86, 7-14=-502/231, 9-14=-343/1594, 9-12=-1386/441, 10-12=-634/3096

- 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;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 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=327.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

Job 29043-29043A	Truss AH4	Truss Type Half Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675517
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84 Components (Dunn), Dunn, NC - 28334,

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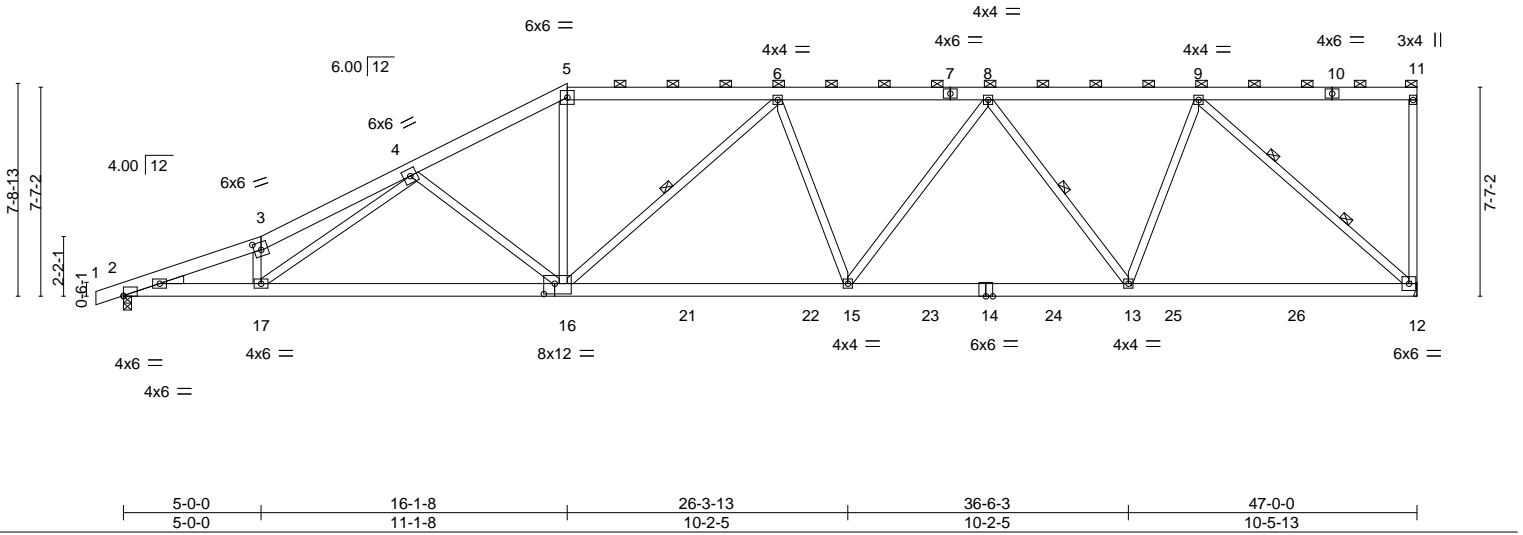


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-3-0,0-3-4], [16:0-4-12,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.26 15-16 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.56 16-17 >998 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.14 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 346 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 6-16,9-12: 2x4 SP No.2 or 2x4 SPF No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-3 max.): 5-11.
 Rigid ceiling directly applied or 6-8-8 oc bracing.
 BOT CHORD
 WEBS 1 Row at midpt 6-16, 8-13
 2 Rows at 1/3 pts 9-12

REACTIONS.

(size) 12=Mechanical, 2=0-3-8
 Max Horz 2=286(LC 12)
 Max Uplift 12=-315(LC 9), 2=-175(LC 12)
 Max Grav 12=1909(LC 2), 2=1935(LC 1)

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

TOP CHORD 2-3=-5091/961, 3-4=-5480/1145, 4-5=-3225/699, 5-6=-2806/666, 6-8=-3098/660, 8-9=-2218/435
 BOT CHORD 2-17=-1167/4793, 16-17=-928/3448, 15-16=-723/3129, 13-15=-619/2788, 12-13=-392/1790
 WEBS 3-17=-1011/333, 4-17=-341/1824, 4-16=-794/332, 5-16=-131/1070, 6-16=-624/216, 8-15=-71/533, 8-13=-1040/317, 9-13=-127/1272, 9-12=-2408/531

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; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=315.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 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



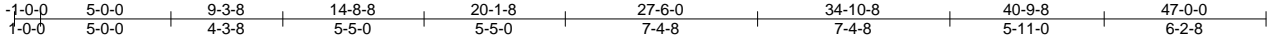
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675519
29043-29043A	AH6	Hip	1	1	Job Reference (optional)	

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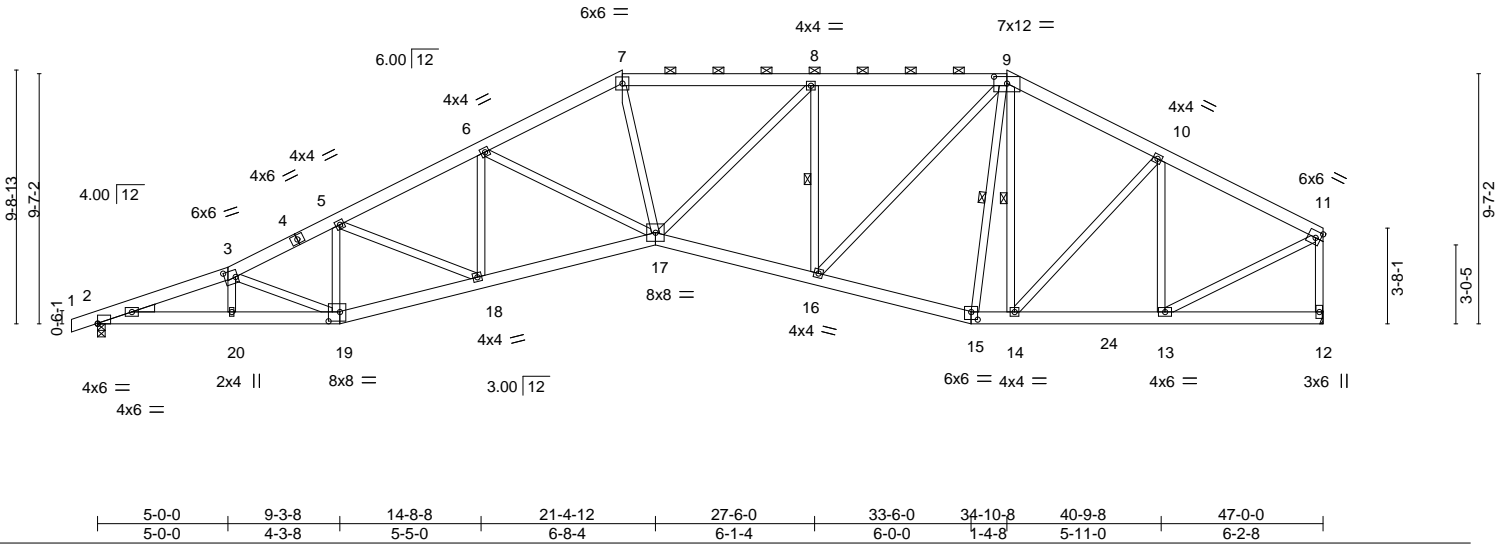


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-5-0,0-3-4], [7:0-0-0,0-0-0], [9:0-6-0,0-3-2], [15:0-3-0,0-3-8], [19:0-5-4,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.26	17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.97	Vert(CT) -0.53	17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.21	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 381 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-6 max.): 7-9.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 8-16, 9-15, 9-14

REACTIONS.

(size) 2=0-3-8, 12=Mechanical
 Max Horz 2=234(LC 12)
 Max Uplift 2=220(LC 12), 12=116(LC 13)
 Max Grav 2=1935(LC 1), 12=1874(LC 1)

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

TOP CHORD 2-3=-5033/1106, 3-5=-4140/950, 5-6=-4186/988, 6-7=-3714/907, 7-8=-3537/903, 8-9=-2836/773, 9-10=-2121/588, 10-11=-1873/449, 11-12=-1815/442
 BOT CHORD 2-20=-1137/4747, 19-20=-1131/4746, 18-19=-899/3802, 17-18=-826/3801, 16-17=-547/2932, 15-16=-318/1854, 14-15=-318/1835, 13-14=-331/1612
 WEBS 3-19=-1138/278, 5-19=-353/150, 6-18=0/262, 6-17=-475/212, 7-17=-235/1283, 8-17=-183/999, 8-16=-1238/365, 9-16=-314/1528, 9-15=-341/98, 9-14=-280/107, 10-14=-84/434, 10-13=-723/257, 11-13=-366/1800

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; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=116.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



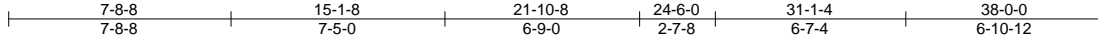
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss AH8	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675521
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84 Components (Dunn), Dunn, NC - 28334,

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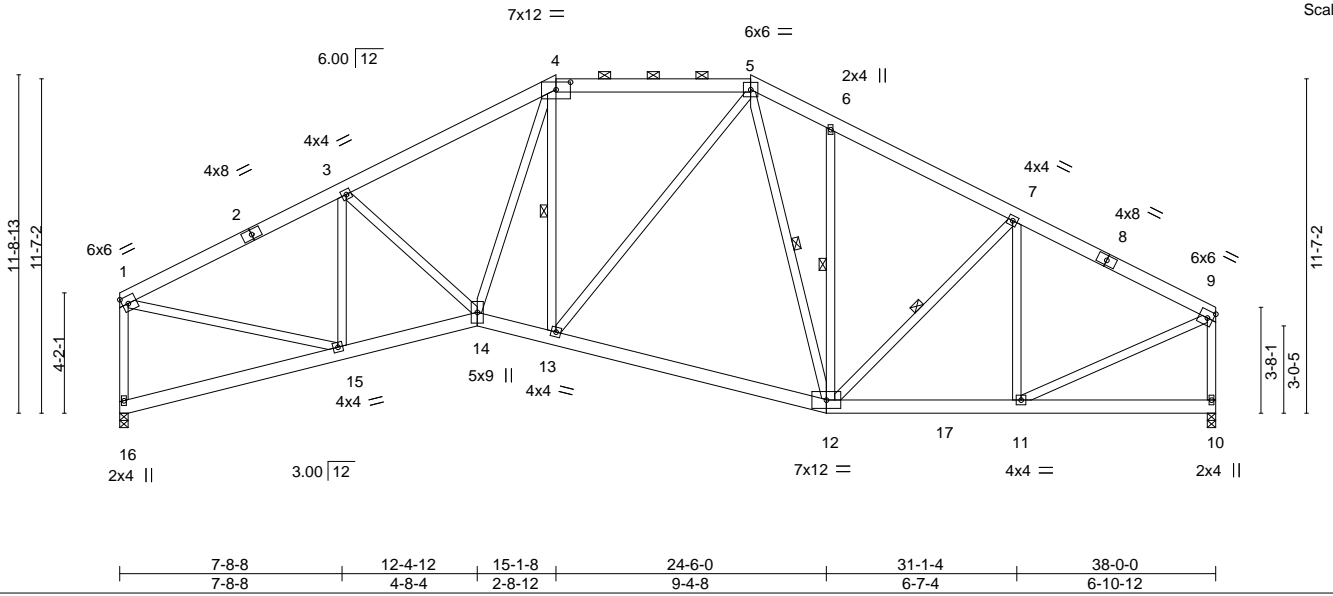


Plate Offsets (X,Y)-- [4:0-6-0,0-3-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(LL) -0.08 12-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Vert(CT) -0.20 12-13 >999 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.08 10 n/a n/a		
				Weight: 330 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD
 WEBS 1 Row at midpt 4-13, 5-12, 6-12, 7-12

REACTIONS.

(size) 16=0-3-8, 10=0-3-8
 Max Horz 16=-143(LC 13)
 Max Uplift 16=-138(LC 12), 10=-145(LC 13)
 Max Grav 16=1508(LC 1), 10=1508(LC 1)

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

TOP CHORD 1-3=-1962/471, 3-4=-2114/595, 4-5=-1583/524, 5-6=-1502/570, 6-7=-1583/486,
 7-9=-1541/384, 1-16=-1444/376, 9-10=-1445/371
 BOT CHORD 14-15=-332/1732, 13-14=-201/1614, 12-13=-191/1389, 11-12=-265/1310
 WEBS 3-15=-672/259, 3-14=-28/279, 4-14=-199/692, 4-13=-257/186, 5-13=-83/506,
 7-11=-480/216, 1-15=-335/1701, 9-11=-284/1422

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; 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) 16 considers parallel to grain value using ANSI/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) 16 and 10. 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.



November 5, 2021

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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

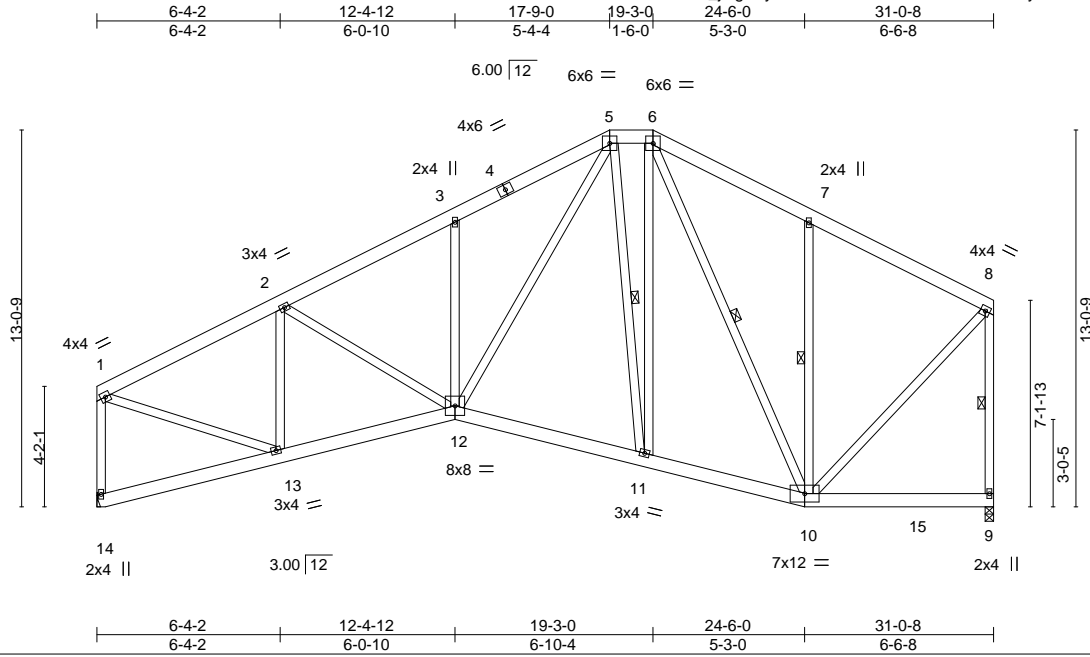
Job 29043-29043A	Truss AH10	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675523
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:14 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.06 12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.85	Vert(CT) -0.11 11-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 301 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 6-10: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-11, 6-10, 7-10, 8-9

REACTIONS.

(size) 14=Mechanical, 9=0-3-8
 Max Horz 14=213(LC 12)
 Max Uplift 14=-128(LC 12), 9=-107(LC 13)
 Max Grav 14=1230(LC 1), 9=1230(LC 1)

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

TOP CHORD 1-2=-1387/367, 2-3=-1591/483, 3-5=-1588/620, 5-6=-818/393, 6-7=-812/403,
 7-8=-787/251, 1-14=-1178/325, 8-9=-1168/340
 BOT CHORD 12-13=-405/1239, 11-12=-173/890, 10-11=-153/843
 WEBS 2-13=-581/240, 3-12=-357/242, 5-12=-380/1005, 5-11=-424/194, 6-11=-111/545,
 6-10=-452/62, 7-10=-408/282, 1-13=-266/1249, 8-10=-216/942

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; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=1b) 14=128.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 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

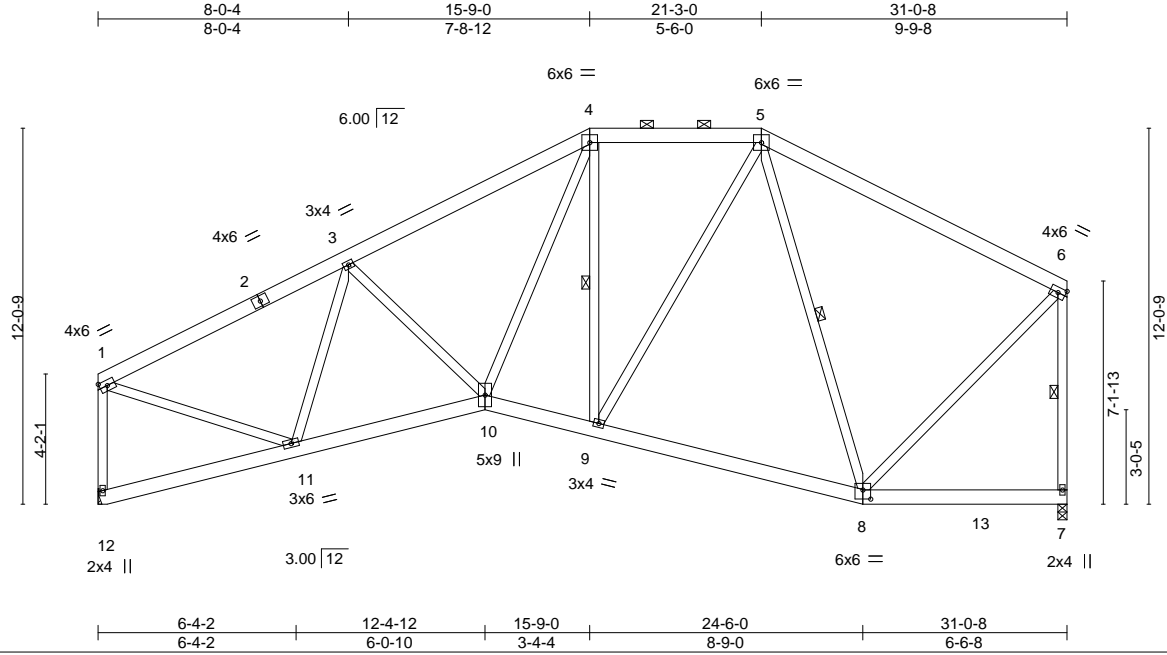
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss AH11	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675524
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84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:15 2021 Page 1
 ID:2bG0dF?FQwaXcMo_jiugPayMcRK-m5KyMbWGARY1WsbFWLzWB9nbbsKDHOZaAW63DyMZr6



Scale = 1:73.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.05	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.12	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 269 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-9, 5-8, 6-7

REACTIONS. (size) 12=Mechanical, 7=0-3-8
 Max Horz 12=196(LC 12)
 Max Uplift 12=-119(LC 12), 7=-91(LC 13)
 Max Grav 12=1230(LC 1), 7=1230(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1347/348, 3-4=-1562/508, 4-5=-1024/410, 5-6=-757/246, 1-12=-1181/319, 6-7=-1170/328
 BOT CHORD 10-11=-438/1363, 9-10=-220/1060, 8-9=-179/820
 WEBS 3-11=-617/246, 4-10=-258/706, 4-9=-406/197, 5-9=-109/576, 5-8=-675/237, 1-11=-223/1195, 6-8=-126/830

- 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; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=119.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. 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.



November 5, 2021

Job 29043-29043A	Truss B1	Truss Type ROOF TRUSS	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675526
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:29 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-MnAFINh2tkJ1B?fxLHDom6M1IVzP9ZydoMwrYPyMZqu



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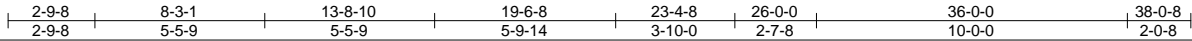
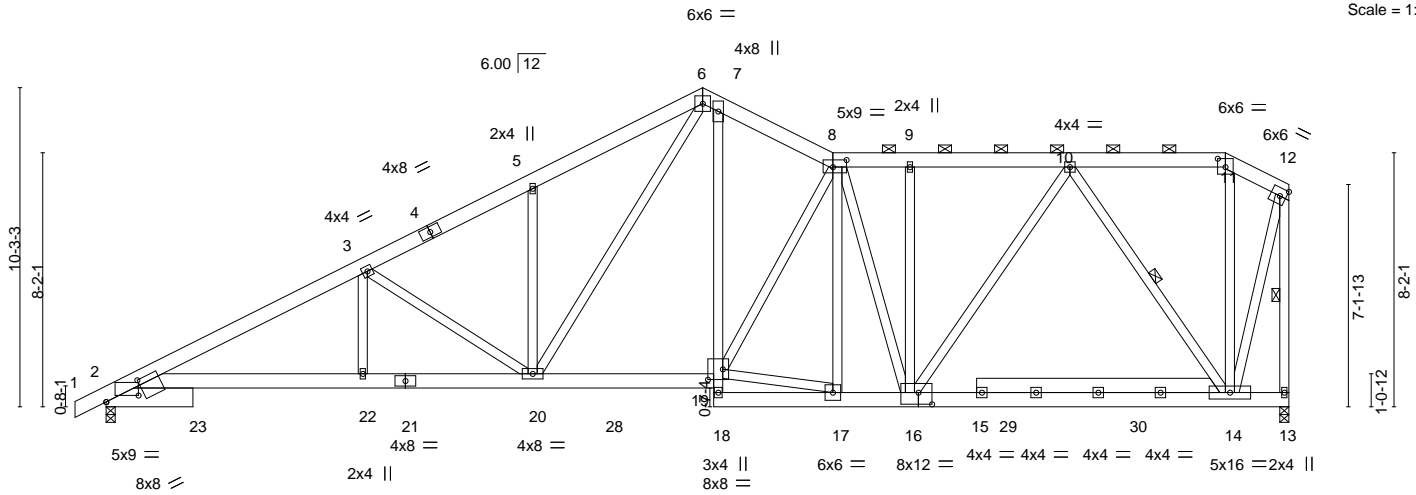


Plate Offsets (X,Y)-- [2:1-2-8,0-2-2], [2:1-0-7,0-2-8], [8:0-5-4,0-2-12], [11:0-3-0,0-3-4], [16:0-5-4,0-4-8], [19:0-5-12,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.13 22-27 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.27 22-27 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.11 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 371 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-6 max.): 8-11.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-14 oc bracing: 2-22, 8-3-0 oc bracing: 20-22, 10-0-0 oc bracing: 18-19
 WEBS 1 Row at midpt 12-13, 10-14

REACTIONS.

(size) 2=0-3-8, 13=0-3-8
 Max Horz 2=320(LC 12)
 Max Uplift 2=-190(LC 12), 13=-198(LC 13)
 Max Grav 2=1580(LC 1), 13=1509(LC 1)

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

TOP CHORD 2-3=-3073/709, 3-5=-2382/590, 5-6=-2345/710, 6-7=-1417/487, 7-8=-1871/537, 8-9=-1624/422, 9-10=-1624/422, 10-11=-331/104, 11-12=-391/93, 12-13=-1466/291
 BOT CHORD 2-22=-803/2721, 20-22=-803/2721, 19-20=-394/1614, 7-19=-125/870, 16-17=-427/1748, 14-16=-274/1091
 WEBS 17-19=-394/1644, 8-19=-416/128, 8-17=-409/112, 8-16=-405/152, 12-14=-236/1297, 5-20=-272/205, 3-22=-2/378, 3-20=-815/303, 6-20=-313/872, 10-16=-192/960, 10-14=-1379/381

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 5, 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 ANSITPI 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 29043-29043A	Truss B2	Truss Type ROOF TRUSS	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675527
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:31 2021 Page 1

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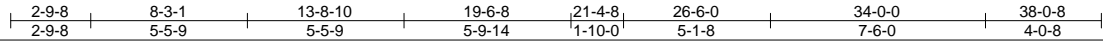
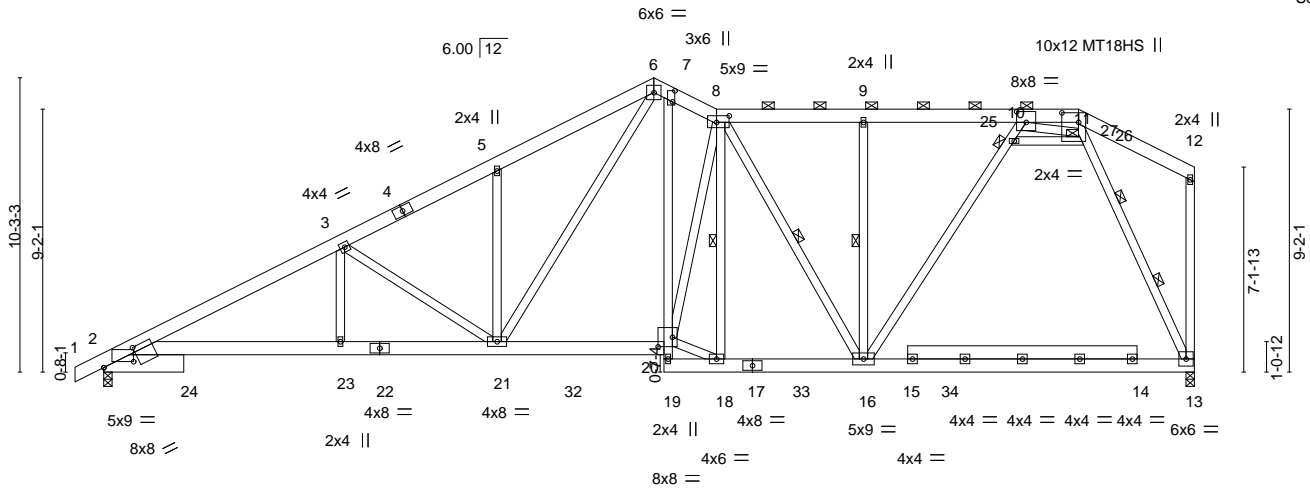


Plate Offsets (X,Y)-- [2:1-0-7,0-2-8], [2:1-2-8,0-2-2], [7:0-4-10,0-1-0], [8:0-5-4,0-2-12], [10:0-4-0,0-4-8], [11:0-4-0,0-7-0], [20:0-6-0,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.17 20-21 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.34 20-21 >999 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.11 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 363 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
8-11: 2x6 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
2-24: 2x8 SP No.2, 2-22: 2x6 SP DSS, 7-19: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
10-16: 2x4 SP No.2 or 2x4 SPF No.2, 11-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-7 max.): 8-11.
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing. Except: 10-0-0 oc bracing: 19-20
WEBS 1 Row at midpt 8-18, 8-16, 9-16
2 Rows at 1/3 pts 11-13
JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS.

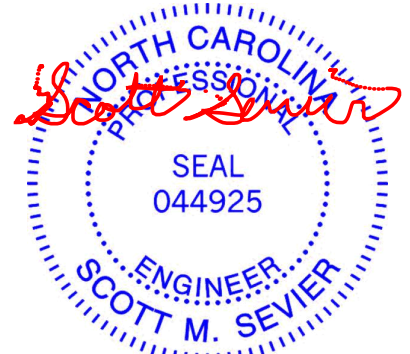
(size) 2=0-3-8, 13=0-3-8
Max Horz 2=320(LC 12)
Max Uplift 2=-190(LC 12), 13=-198(LC 13)
Max Grav 2=1580(LC 1), 13=1591(LC 2)

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

TOP CHORD 2-3=-3073/704, 3-5=-2382/585, 5-6=-2349/707, 6-7=-1415/483, 7-8=-1911/554,
8-9=-1478/405, 9-10=-1478/405
BOT CHORD 2-23=-798/2721, 21-23=-798/2721, 20-21=-391/1653, 7-20=-172/1098, 16-18=-389/1648,
13-16=-174/686
WEBS 18-20=-391/1770, 8-20=-272/144, 8-18=-652/185, 8-16=-390/134, 9-16=-659/236,
16-25=-264/1433, 10-25=-210/1178, 5-21=-276/209, 3-23=-2/379, 3-21=-814/302,
6-21=-313/866, 11-26=-1100/294, 13-26=-1580/409, 25-27=-87/414, 26-27=-591/140,
10-27=-950/217

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; 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 5, 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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818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss B3	Truss Type ROOF TRUSS	Qty 1	Ply 1	WEST-SHERMAN 106-21-180	148675528
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:32 2021 Page 1

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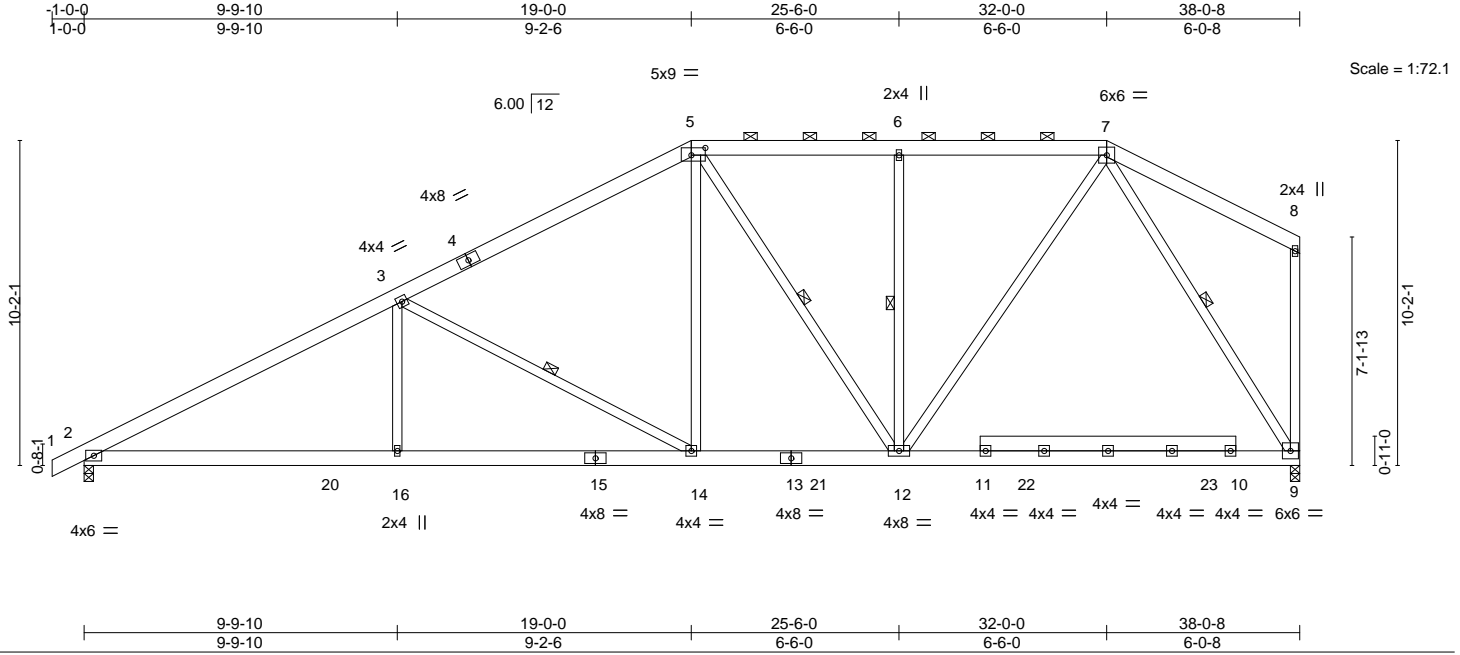


Plate Offsets (X,Y)-- [5:0-5-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.10	9-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.20	14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
 Rigid ceiling directly applied or 8-10-14 oc bracing.
 BOT CHORD
 WEBS 1 Row at midpt 3-14, 5-12, 6-12, 7-9

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=319(LC 12)
 Max Uplift 2=-186(LC 12), 9=-80(LC 9)
 Max Grav 2=1577(LC 1), 9=1568(LC 2)

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

TOP CHORD 2-3=-2669/567, 3-5=-1814/463, 5-6=-1368/415, 6-7=-1368/415
 BOT CHORD 2-16=-661/2287, 14-16=-661/2287, 12-14=-354/1509, 9-12=-188/758
 WEBS 3-16=0/403, 3-14=-901/352, 5-14=-81/604, 5-12=-324/144, 6-12=-429/198,
 7-12=-182/128, 7-9=-1442/359

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 5, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

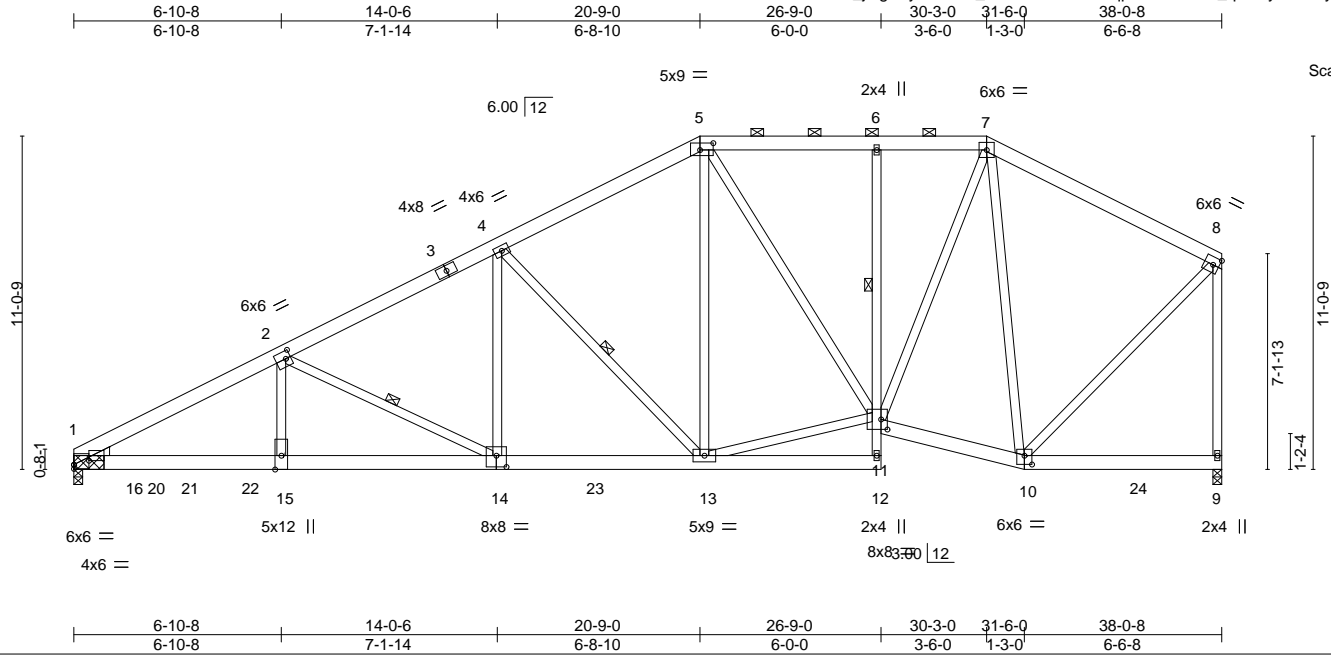


818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss B4GR	Truss Type Hip Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675529
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:34 2021 Page 1
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Scale = 1:76.4

Plate Offsets (X,Y)-- [1:0-0-0,0-1-10], [1:0-6-0,0-1-10], [2:0-2-0,0-3-0], [5:0-5-4,0-2-12], [10:0-3-0,0-3-8], [11:0-2-8,0-4-0], [14:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.16 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.32 14-15 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.10 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 677 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 1-14: 2x6 SP DSS, 6-12: 2x4 SP No.3
 WEBS 2x4 SP No.3 *Except*
 2-15: 2x4 SP No.2 or 2x4 SPF No.2

WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 1=(0-3-8 + bearing block) (req. 0-4-15), 9=0-3-8
 Max Horz 1=317(LC 35)
 Max Uplift 1=-824(LC 12), 9=-215(LC 12)
 Max Grav 1=6321(LC 1), 9=2470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-11793/1753, 2-4=-5743/982, 4-5=-3321/689, 5-6=-2419/584, 6-7=-2418/584,
 7-8=-1667/376, 8-9=-2412/515
 BOT CHORD 1-15=-1756/10448, 14-15=-1756/10448, 13-14=-920/5078, 6-11=-278/151,
 10-11=-301/1672
 WEBS 2-15=-570/5124, 2-14=-6013/936, 4-14=-336/2910, 4-13=-3198/609, 5-13=-259/1870,
 11-13=-480/2766, 5-11=-952/203, 7-11=-369/2240, 8-10=-340/2045, 7-10=-1732/389

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: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 2 rows staggered at 0-2-0 oc, Except member 14-2 2x4 - 1 row at 0-9-0 oc, member 4-14 2x4 - 1 row at 0-9-0 oc, member 13-4 2x4 - 1 row at 0-9-0 oc, member 13-5 2x4 - 1 row at 0-9-0 oc, member 13-11 2x4 - 1 row at 0-9-0 oc, member 11-5 2x4 - 1 row at 0-9-0 oc, member 11-7 2x4 - 1 row at 0-9-0 oc, member 10-8 2x4 - 1 row at 0-9-0 oc, member 7-10 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.
- 2x6 SP DSS bearing block 12" long at jt. 1 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. User Defined Bearing crushing capacity= 425psi.
- 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; 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

Continue to page 2 for the bottom chord and any other members, with BCDL = 10.0psf.



November 5, 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	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	I48675529
29043-29043A	B4GR	Hip Girder	1	2	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:34 2021 Page 2
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-il_8M5lBtGxKlnYv8qzTA3ubWm_qnxMyedcDdyMZqp

NOTES-

- 9) Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 378 lb down and 86 lb up at 1-8-12, 317 lb down and 65 lb up at 3-8-12, and 431 lb down and 109 lb up at 5-8-12, and 4634 lb down and 544 lb up at 6-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 7-8=-60, 12-17=-20, 10-11=-20, 9-10=-20
Concentrated Loads (lb)
Vert: 15=-4634(F) 20=-378(F) 21=-317(F) 22=-431(F)

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Edenton, NC 27932

Job 29043-29043A	Truss BH	Truss Type Hip Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675530
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:40 2021 Page 1
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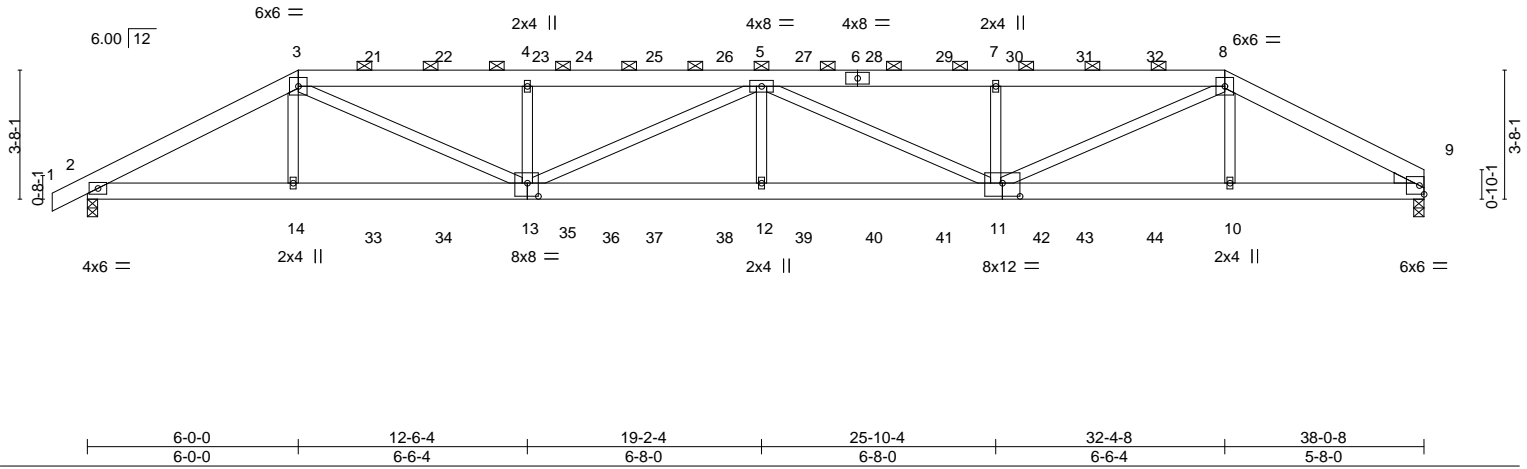


Plate Offsets (X,Y)-- [11:0-6-0,0-4-8], [13:0-3-12,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) 0.29	12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.57	12	>802	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.12	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 494 lb	FT = 20%

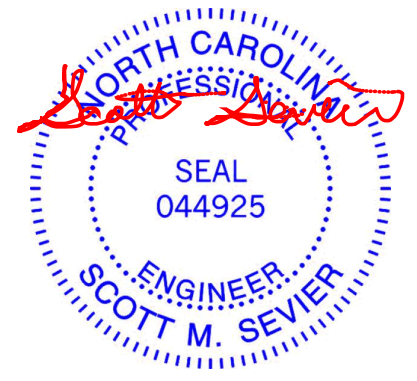
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-1-15 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=71(LC 12)
Max Uplift 9=576(LC 8), 2=449(LC 9)
Max Grav 9=2677(LC 1), 2=2803(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=5351/1072, 3-4=7976/1756, 4-5=7976/1756, 5-7=7820/1843, 7-8=7820/1843, 8-9=4940/1248
BOT CHORD 2-14=878/4692, 13-14=885/4680, 12-13=1930/9065, 11-12=1930/9065, 10-11=1032/4300, 9-10=1027/4297
WEBS 3-14=0/443, 3-13=871/3732, 4-13=761/401, 5-13=1239/340, 5-12=0/537, 5-11=1401/232, 7-11=773/405, 8-11=786/3967

- 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: 2x6 - 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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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.
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	I48675530
29043-29043A	BH	Hip Girder	1	2	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:40 2021 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 119 lb up at 6-0-0, 95 lb down and 118 lb up at 8-0-12, 95 lb down and 118 lb up at 10-0-12, 95 lb down and 118 lb up at 12-0-12, 95 lb down and 118 lb up at 14-0-12, 95 lb down and 118 lb up at 16-0-12, 95 lb down and 118 lb up at 18-0-12, 95 lb down and 118 lb up at 19-2-4, 95 lb down and 118 lb up at 20-3-12, 95 lb down and 118 lb up at 22-3-12, 95 lb down and 118 lb up at 24-3-12, 95 lb down and 118 lb up at 26-3-12, 95 lb down and 118 lb up at 28-3-12, and 95 lb down and 118 lb up at 30-3-12, and 238 lb down and 276 lb up at 32-4-7 on top chord, and 187 lb down at 6-0-0, 70 lb down at 8-0-12, 70 lb down at 10-0-12, 70 lb down at 12-0-12, 70 lb down at 14-0-12, 70 lb down at 16-0-12, 70 lb down at 18-0-12, 70 lb down at 19-2-4, 70 lb down at 20-3-12, 70 lb down at 22-3-12, 70 lb down at 24-3-12, 70 lb down at 26-3-12, 70 lb down at 28-3-12, and 70 lb down at 30-3-12, and 19 lb down and 88 lb up at 32-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-9=-60, 15-18=-20

Concentrated Loads (lb)

Vert: 14=-163(B) 3=-95(B) 12=-57(B) 5=-95(B) 8=-191(B) 10=54(B) 21=-95(B) 22=-95(B) 23=-95(B) 24=-95(B) 25=-95(B) 26=-95(B) 27=-95(B) 28=-95(B) 29=-95(B) 30=-95(B) 31=-95(B) 32=-95(B) 33=-57(B) 34=-57(B) 35=-57(B) 36=-57(B) 37=-57(B) 38=-57(B) 39=-57(B) 40=-57(B) 41=-57(B) 42=-57(B) 43=-57(B) 44=-57(B)

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 29043-29043A	Truss BH2	Truss Type Roof Special	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675532
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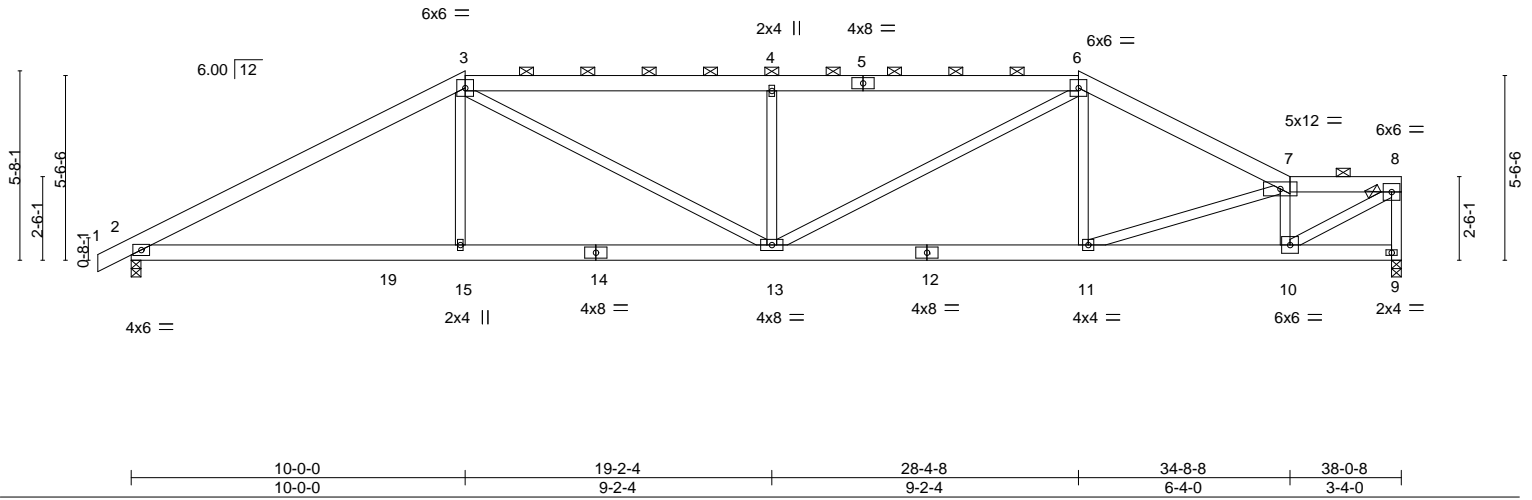
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:42 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.14 13 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.29 11-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 256 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 8-10: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 3-6, 7-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=140(LC 12)
 Max Uplift 2=-121(LC 12), 9=-119(LC 9)
 Max Grav 2=1577(LC 1), 9=1515(LC 1)

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

TOP CHORD 2-3=-2655/561, 3-4=-2941/698, 4-6=-2939/697, 6-7=-2477/541, 7-8=-2224/480, 8-9=-1439/320
 BOT CHORD 2-15=-445/2267, 13-15=-448/2260, 11-13=-412/2175, 10-11=-454/2129
 WEBS 3-15=0/398, 3-13=-224/931, 4-13=-652/290, 6-13=-208/984, 6-11=0/336, 7-10=-1327/362, 8-10=-552/2554

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; 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) 9 considers parallel to grain value using ANSI/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) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss BH3	Truss Type Roof Special	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675533
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:43 2021 Page 1

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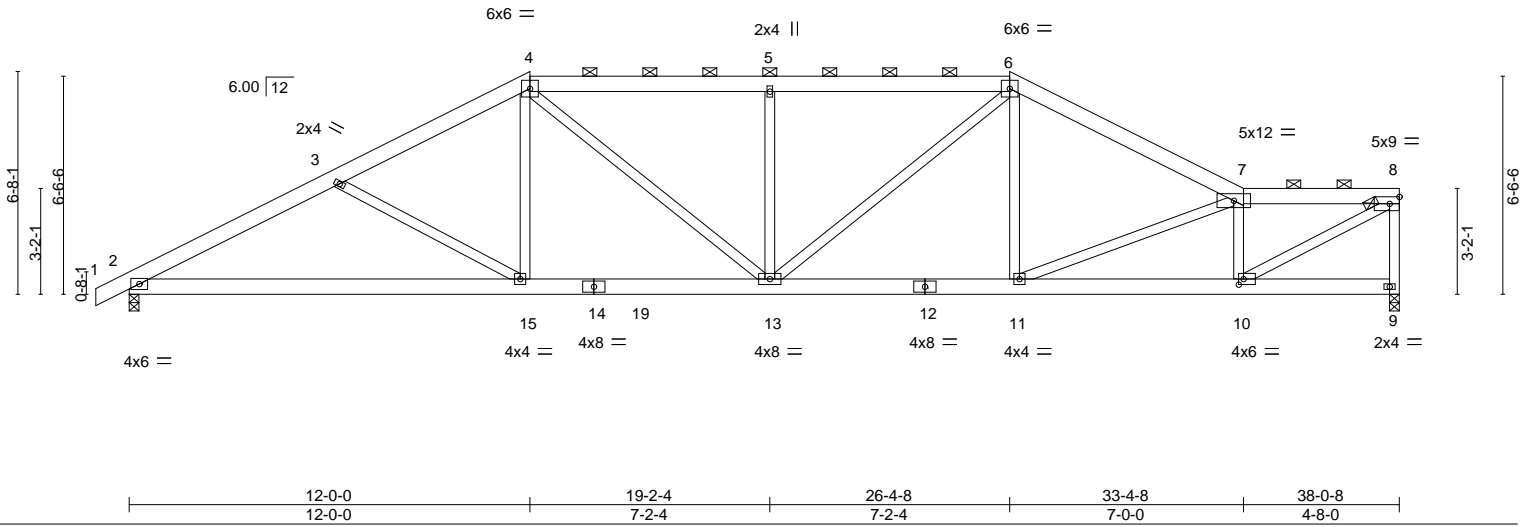


Plate Offsets (X,Y)-- [10:0-1,12,0-2,0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.12	15-18	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.27	15-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.08	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 272 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 8-10: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-12 max.); 4-6, 7-8.
 BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=171(LC 12)
 Max Uplift 2=141(LC 12), 9=120(LC 13)
 Max Grav 2=1577(LC 1), 9=1515(LC 1)

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

TOP CHORD 2-3=-2737/656, 3-4=-2394/553, 4-5=-2415/622, 5-6=-2415/622, 6-7=-2348/533,
 7-8=-2303/500, 8-9=-1449/335
 BOT CHORD 2-15=-605/2383, 13-15=-399/2073, 11-13=-393/2028, 10-11=-480/2236
 WEBS 3-15=-354/235, 4-15=0/480, 4-13=-158/571, 5-13=-508/224, 6-13=-143/630, 6-11=0/375,
 7-10=-1249/372, 8-10=-571/2625

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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; 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 BC DL = 10.0psf.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/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) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss BH4	Truss Type Roof Special	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675534
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:44 2021 Page 1

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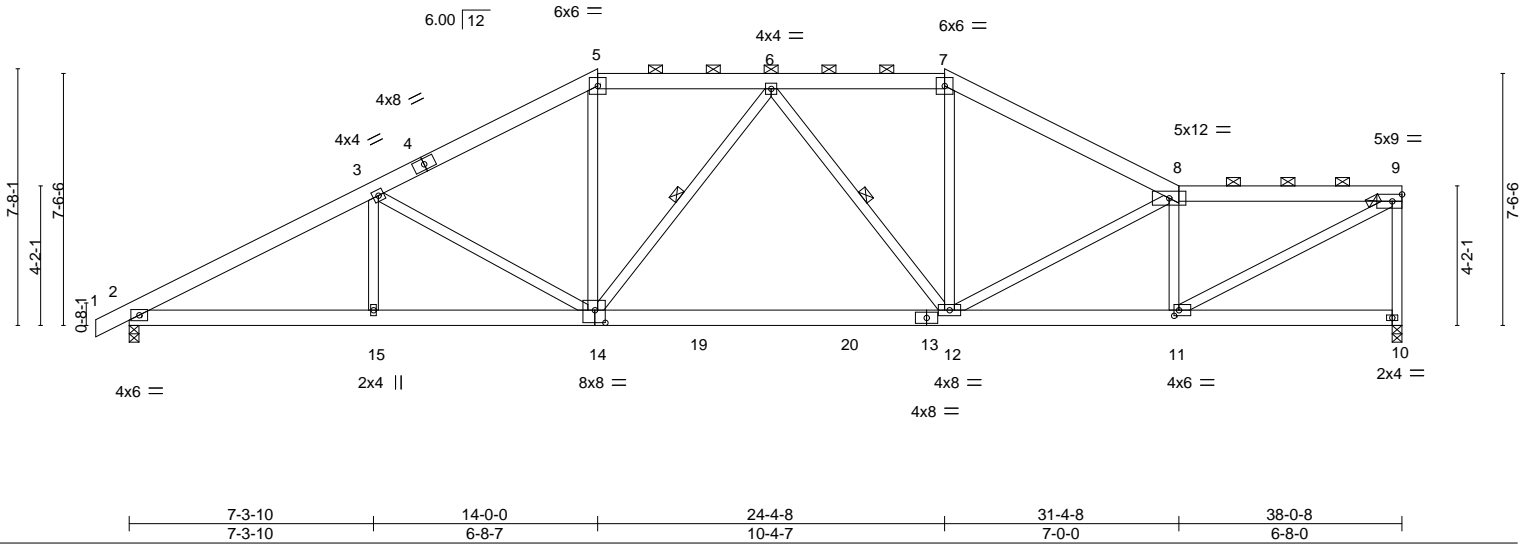


Plate Offsets (X,Y)-- [11:0-1-12,0-2-0], [14:0-3-12,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.17 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.34 12-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 279 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 9-11: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-7 max.): 5-7, 8-9.
 BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.
 WEBS 1 Row at midpt 6-14, 6-12

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=210(LC 12)
 Max Uplift 2=-158(LC 12), 10=-142(LC 13)
 Max Grav 2=1577(LC 1), 10=1515(LC 1)

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

TOP CHORD 2-3=-2739/614, 3-5=-2232/544, 5-6=-1914/534, 6-7=-1888/518, 7-8=-2201/515,
 8-9=-2278/504, 9-10=-1439/357
 BOT CHORD 2-15=-603/2368, 14-15=-603/2368, 12-14=-434/2024, 11-12=-490/2233
 WEBS 3-14=-532/245, 5-14=-71/620, 6-14=-327/143, 6-12=-368/134, 7-12=-36/580,
 8-12=-401/144, 8-11=-1153/363, 9-11=-570/2571

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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; 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 BC DL = 10.0psf.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/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) 2 and 10. 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.



November 5, 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



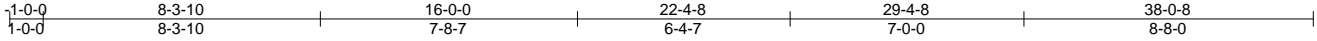
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss BH5	Truss Type Roof Special	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675535
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:45 2021 Page 1

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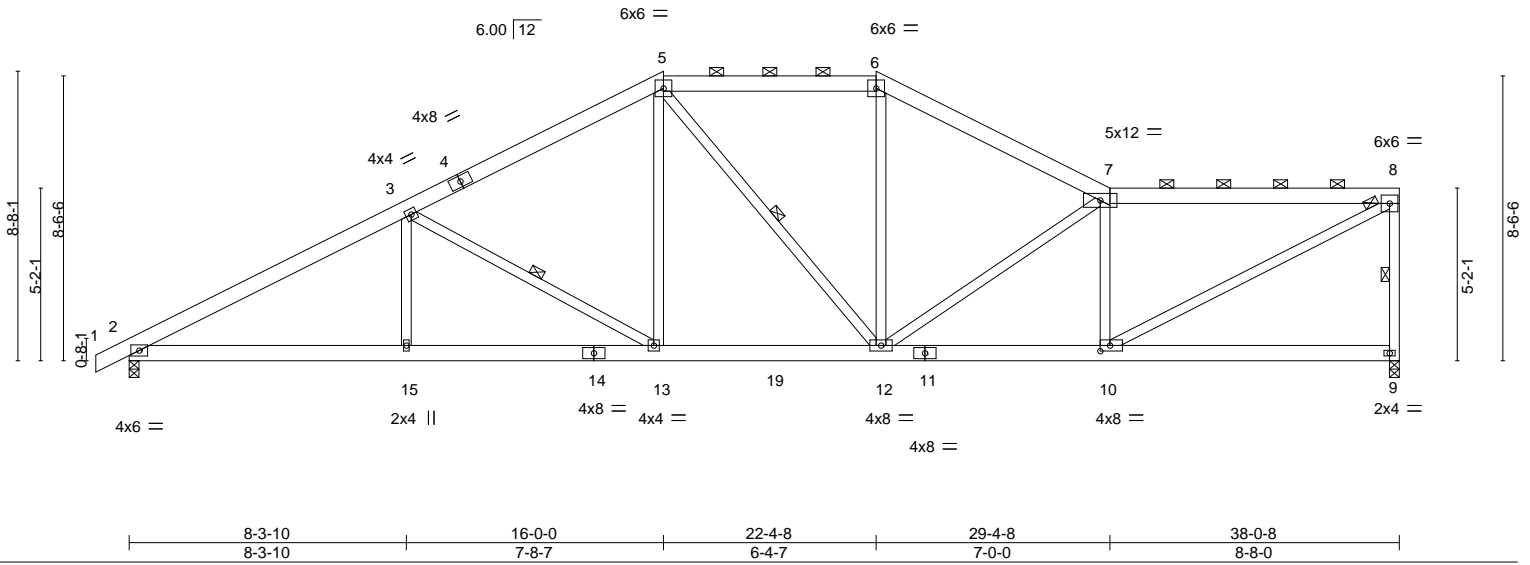


Plate Offsets (X,Y)-- [10:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.11 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.21 13-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 282 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 5-6, 7-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-10: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 8-9, 3-13, 5-12

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=248(LC 12)
 Max Uplift 2=-172(LC 12), 9=-164(LC 13)
 Max Grav 2=1577(LC 1), 9=1515(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2717/606, 3-5=-2073/530, 5-6=-1734/517, 6-7=-2032/515, 7-8=-2210/495,
 8-9=-1429/373
 BOT CHORD 2-15=-627/2341, 13-15=-627/2341, 12-13=-384/1752, 10-12=-483/2178
 WEBS 3-15=0/309, 3-13=-684/279, 5-13=-51/537, 6-12=-25/501, 7-12=-548/139,
 7-10=-1030/379, 8-10=-555/2477

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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; 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 BC DL = 10.0psf.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/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) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

Job 29043-29043A	Truss BH6	Truss Type ROOF TRUSS	Qty 1	Ply 1	WEST-SHERMAN 106-21-180	148675536
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:47 2021 Page 1

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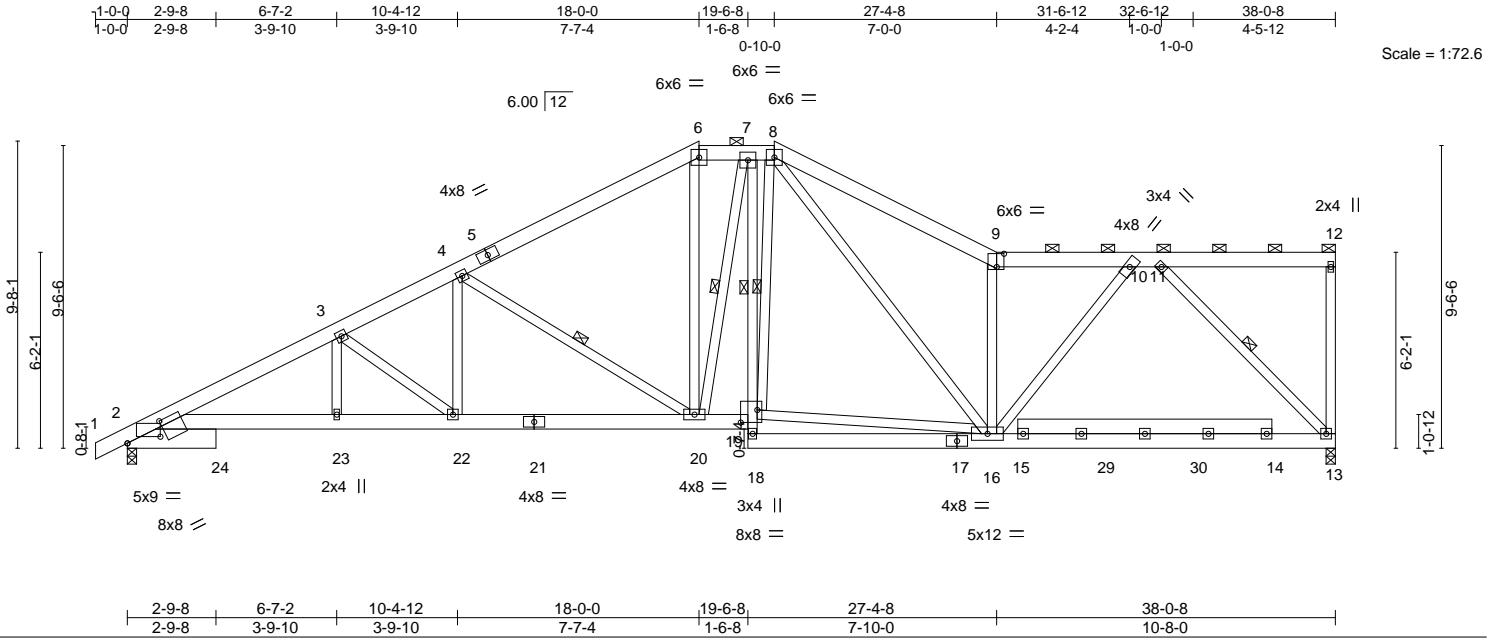


Plate Offsets (X,Y)--	[2:1-2-8,0-2-2], [2:1-0-7,0-2-8], [9:0-2-12,0-5-0], [19:0-6-4,0-4-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.12	20-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.25	20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.10	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 355 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-10 max.): 6-8, 9-12.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing. Except:
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-19
	1 Row at midpt 4-20, 7-20, 8-19, 11-13

REACTIONS.
(size) 13=0-3-8, 2=0-3-8
Max Horz 2=287(LC 12)
Max Uplift 13=-184(LC 13), 2=-186(LC 12)
Max Grav 13=1509(LC 1), 2=1580(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3239/762, 3-4=-2718/665, 4-6=-2008/536, 6-7=-1699/536, 7-8=-1633/518, 8-9=-2316/603, 9-10=-2068/475, 10-11=-1278/327
BOT CHORD	2-23=-825/2880, 22-23=-825/2880, 20-22=-652/2397, 19-20=-379/1649, 16-18=-90/520, 13-16=-327/1278
WEBS	4-22=-27/484, 4-20=-819/306, 6-20=-45/474, 7-20=-134/419, 16-19=-295/1131, 8-16=-141/659, 9-16=-1380/442, 3-22=-605/217, 3-23=-48/313, 10-16=-236/1255, 11-13=-1826/469

- 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; 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 4x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) 13 and 2. 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.



November 5, 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

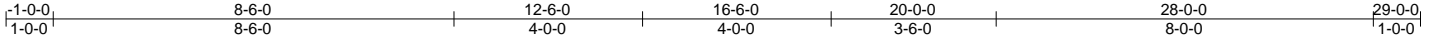
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss C	Truss Type ROOF TRUSS	Qty 3	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675537
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:48 2021 Page 1

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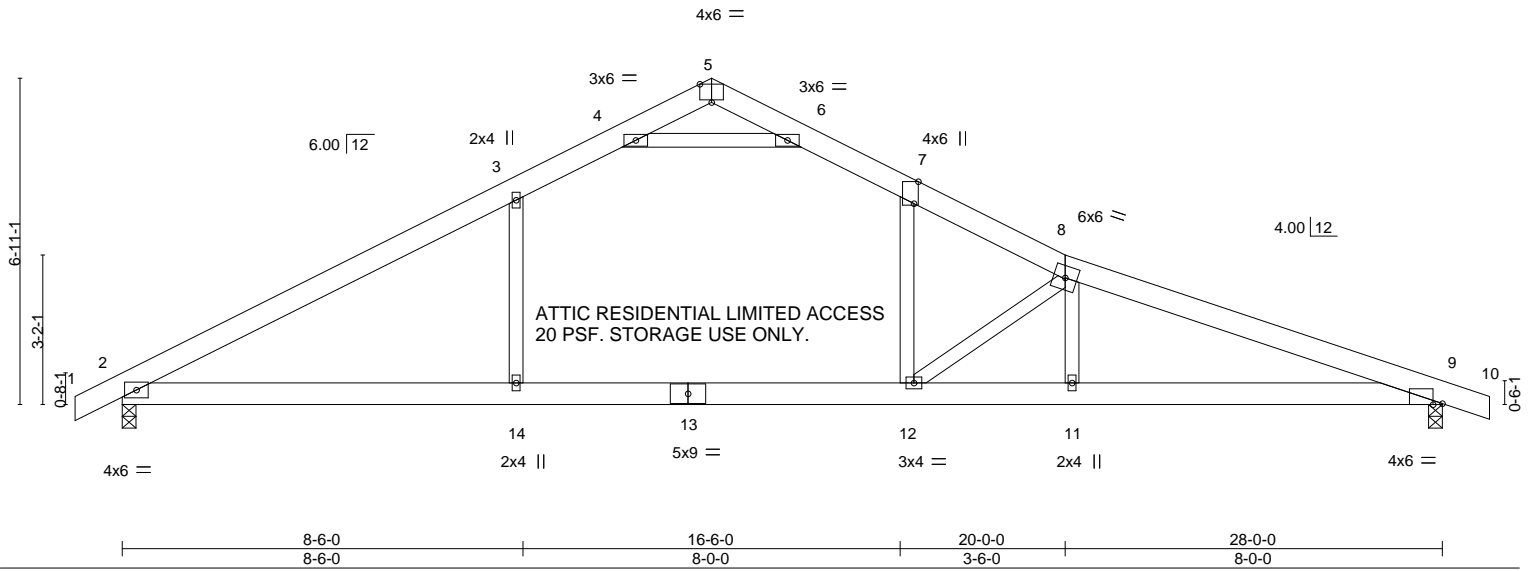


Plate Offsets (X,Y)-- [5:0-3-0,Edge], [7:0-5-10,Edge], [9:0-2-6,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	-0.24	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.49	12-14	>680		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Horz(CT)	0.06	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Attic	-0.15	12-14	684	Weight: 170 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 8-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=114(LC 16)
 Max Uplift 2=-32(LC 12), 9=-71(LC 13)
 Max Grav 2=1332(LC 1), 9=1315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2230/182, 3-4=-1839/271, 4-5=-44/716, 5-6=-56/804, 6-7=-1751/259,
 7-8=-2318/237, 8-9=-3056/328
 BOT CHORD 2-14=-28/1883, 12-14=-28/1883, 11-12=-222/2861, 9-11=-221/2868
 WEBS 3-14=0/476, 7-12=-42/1026, 8-12=-1393/249, 8-11=-19/273, 4-6=-2732/357

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 7-8, 4-6; Wall dead load (5.0psf) on member(s). 3-14, 7-12
 - Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



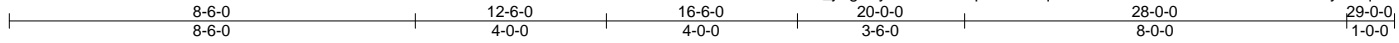
November 5, 2021

Job 29043-29043A	Truss C1	Truss Type ROOF TRUSS	Qty 7	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675538
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:49 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-mdOpVDxbAtqCb4BnWUaUaKBRsZrQrbsaOTmvFFyMZqa



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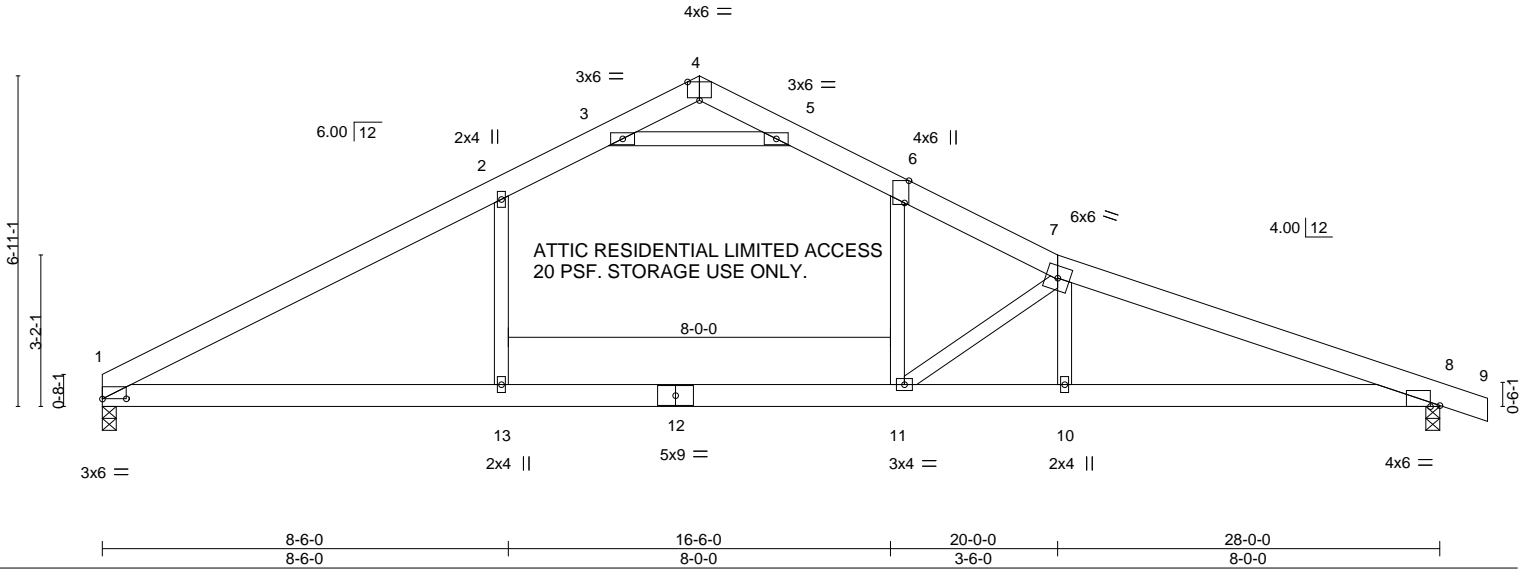


Plate Offsets (X,Y)-- [1:0-6-0,0-0-1], [4:0-3-0,Edge], [6:0-5-10,Edge], [8:0-2-6,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.24	11-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.49	11-13	>681	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.06	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.15	11-13	684	360		
							Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS *Except*
7-9: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=-121(LC 13)
Max Uplift 1=-11(LC 12), 8=-71(LC 13)
Max Grav 1=1271(LC 1), 8=1316(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2233/186, 2-3=-1842/274, 3-4=-46/720, 4-5=-59/808, 5-6=-1754/262,
6-7=-2321/241, 7-8=-3058/331
BOT CHORD 1-13=-32/1886, 11-13=-32/1886, 10-11=-225/2864, 8-10=-224/2870
WEBS 2-13=0/476, 6-11=-43/1026, 7-11=-1393/247, 7-10=-19/273, 3-5=-2741/364

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 6-7, 3-5; Wall dead load (5.0psf) on member(s). 2-13, 6-11
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-13
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 8. This connection is for uplift only and does not consider lateral forces.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 5, 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



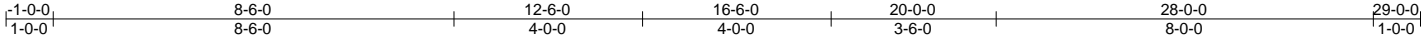
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss CE	Truss Type GABLE	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675539
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:50 2021 Page 1

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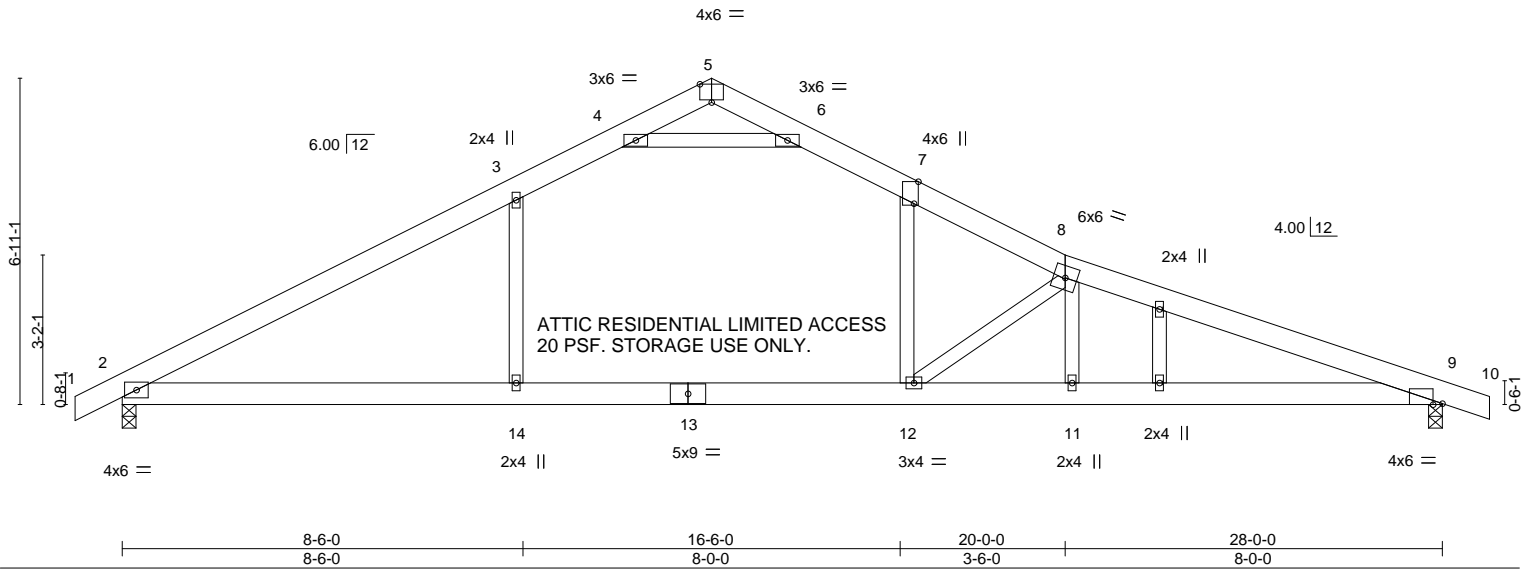


Plate Offsets (X,Y)-- [5:0-3-0,Edge], [7:0-5-10,Edge], [9:0-2-6,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.24 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.49 12-14 >680 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.15 12-14 684 360	Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 8-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=114(LC 16)
 Max Uplift 2=-32(LC 12), 9=-71(LC 13)
 Max Grav 2=1332(LC 1), 9=1315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2230/182, 3-4=-1839/271, 4-5=-44/716, 5-6=-56/804, 6-7=-1751/259,
 7-8=-2318/237, 8-9=-3056/328
 BOT CHORD 2-14=-28/1883, 12-14=-28/1883, 11-12=-222/2861, 9-11=-221/2868
 WEBS 3-14=0/476, 7-12=-42/1026, 8-12=-1393/249, 8-11=-19/273, 4-6=-2732/357

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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; 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.
 - 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, 6-7, 7-8, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
 - Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

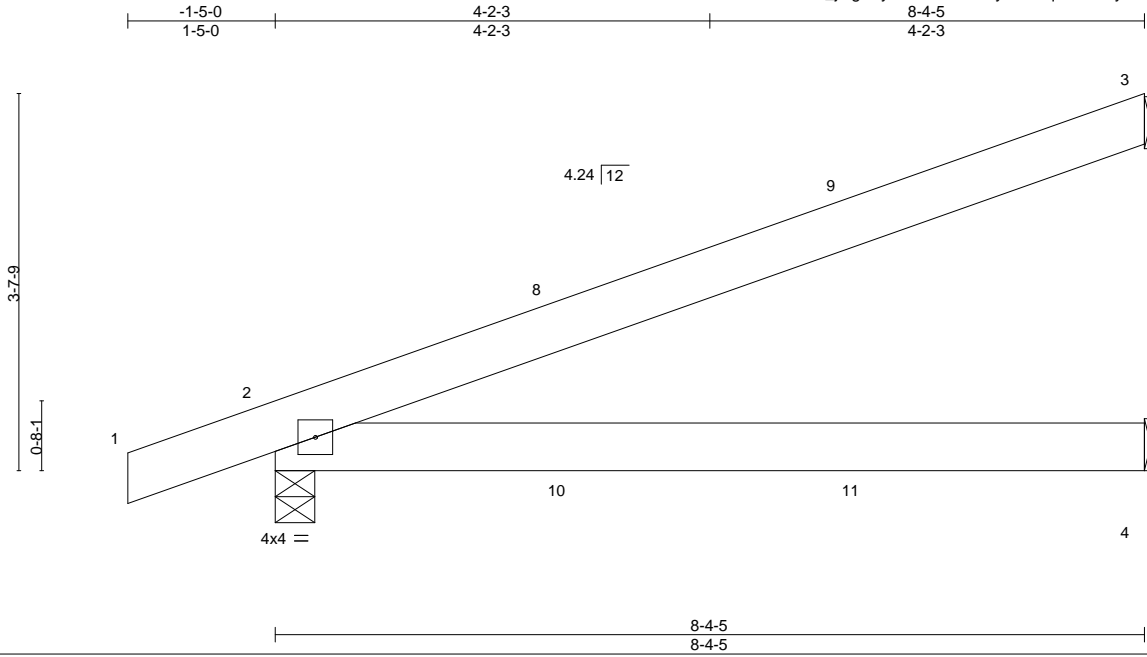


Job 29043-29043A	Truss CJ1	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675540
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:51 2021 Page 1
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Scale = 1:22.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) 0.07 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.14 4-7 >687 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.01 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 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.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=139(LC 8)
Max Uplift 3=121(LC 12), 2=106(LC 8)
Max Grav 3=237(LC 1), 2=450(LC 1), 4=173(LC 3)

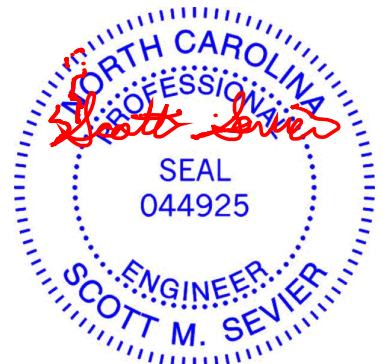
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=121.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 13 lb down and 59 lb up at 2-9-7, 13 lb down and 59 lb up at 2-9-8, and 39 lb down and 102 lb up at 5-7-6, and 39 lb down and 102 lb up at 5-7-7 on top chord, and 4 lb down at 2-9-7, 4 lb down at 2-9-8, and 23 lb down at 5-7-6, and 23 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-25(F=-13, B=-13) 10=-6(F=-3, B=-3) 11=-41(F=-21, B=-21)



November 5, 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 29043-29043A	Truss CJ2	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675541
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:53 2021 Page 1
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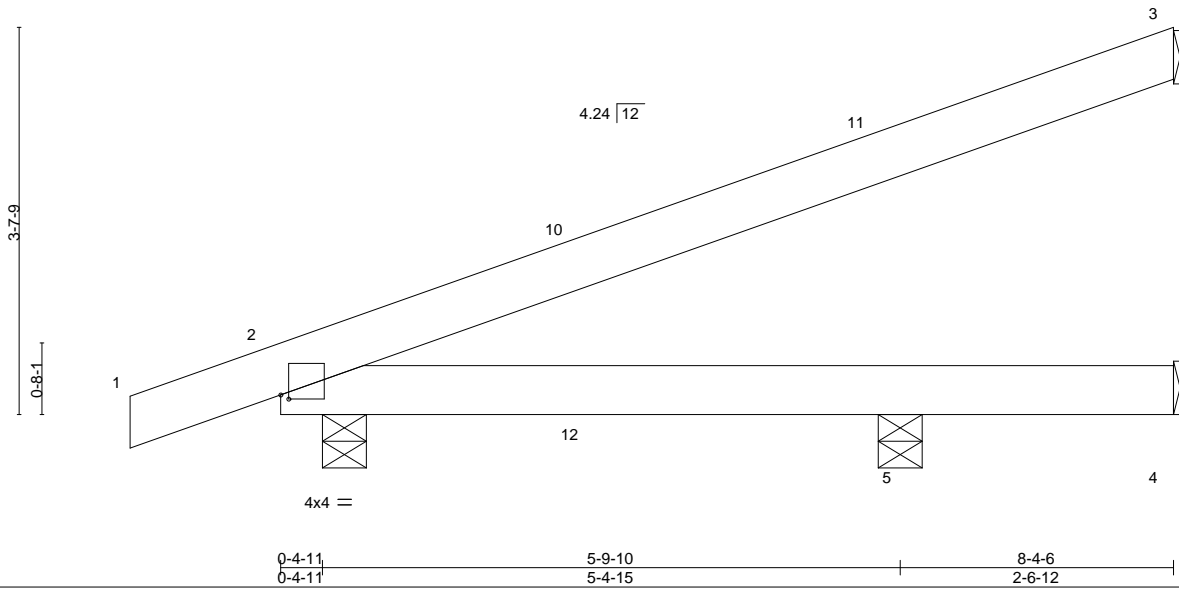


Plate Offsets (X,Y)--	[2:0-0-14,0-0-7]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.01	5-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.02	5-9	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-4-15, 5=0-4-15.
 (lb) - Max Horz 2=139(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 4 except 3=112(LC 12), 2=116(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 3, 4, 5 except 2=407(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=112.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 13 lb down and 59 lb up at 2-9-8, and 13 lb down and 59 lb up at 2-9-9, and 34 lb down and 99 lb up at 5-7-7 on top chord, and 4 lb down at 2-9-8, and 4 lb down at 2-9-9, and 19 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-6=-20
 Concentrated Loads (lb)
 Vert: 5=-11(F) 11=-4(F) 12=-6(F=-3, B=-3)



November 5, 2021

Job 29043-29043A	Truss D	Truss Type ROOF TRUSS	Qty 10	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675542
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84 Components (Dunn), Dunn, NC - 28334,

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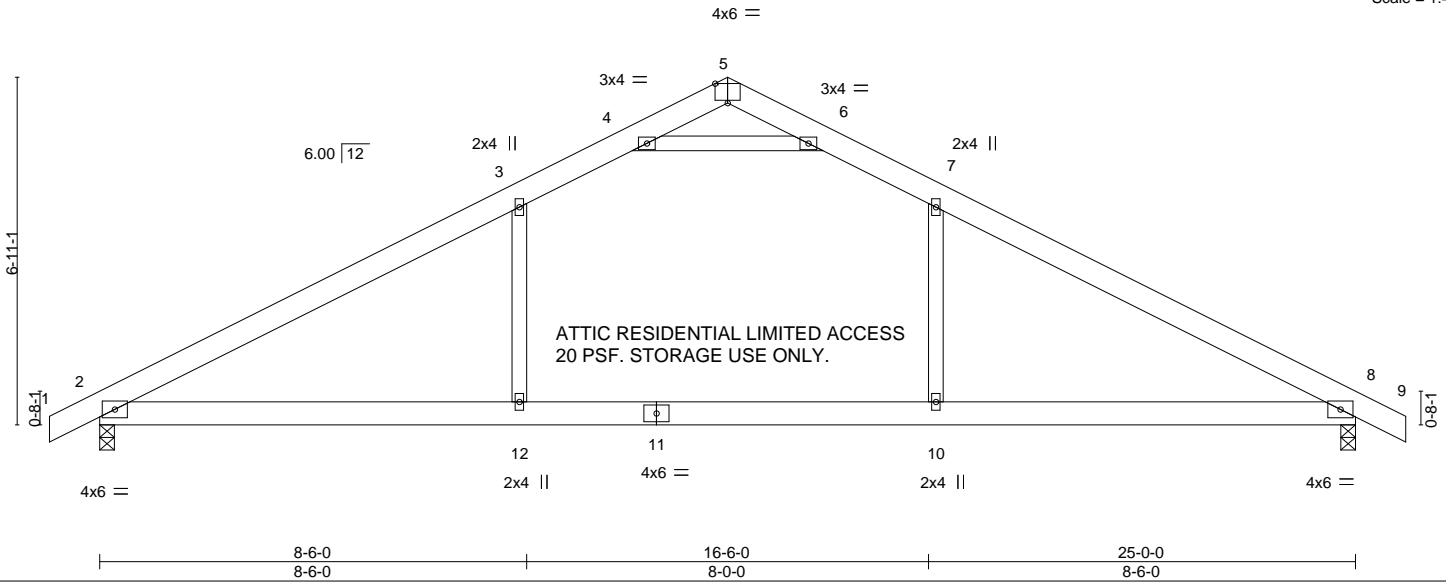


Plate Offsets (X,Y)-- [5:0-3:0,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.24	10-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.37	10-18	>818	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.03	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.17	10-12	585	360		
							Weight: 147 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=113(LC 12)
 Max Uplift 2=-45(LC 12), 8=-45(LC 13)
 Max Grav 2=1187(LC 1), 8=1187(LC 1)

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

TOP CHORD 2-3=-1869/166, 3-4=-1504/251, 4-5=-105/797, 5-6=-105/797, 6-7=-1504/251,
 7-8=-1869/166
 BOT CHORD 2-12=-13/1557, 10-12=-13/1557, 8-10=-13/1557
 WEBS 7-10=0/430, 3-12=0/430, 4-6=-2448/403

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-10, 3-12
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 5, 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 29043-29043A	Truss DE	Truss Type GABLE	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675543
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84 Components (Dunn), Dunn, NC - 28334,

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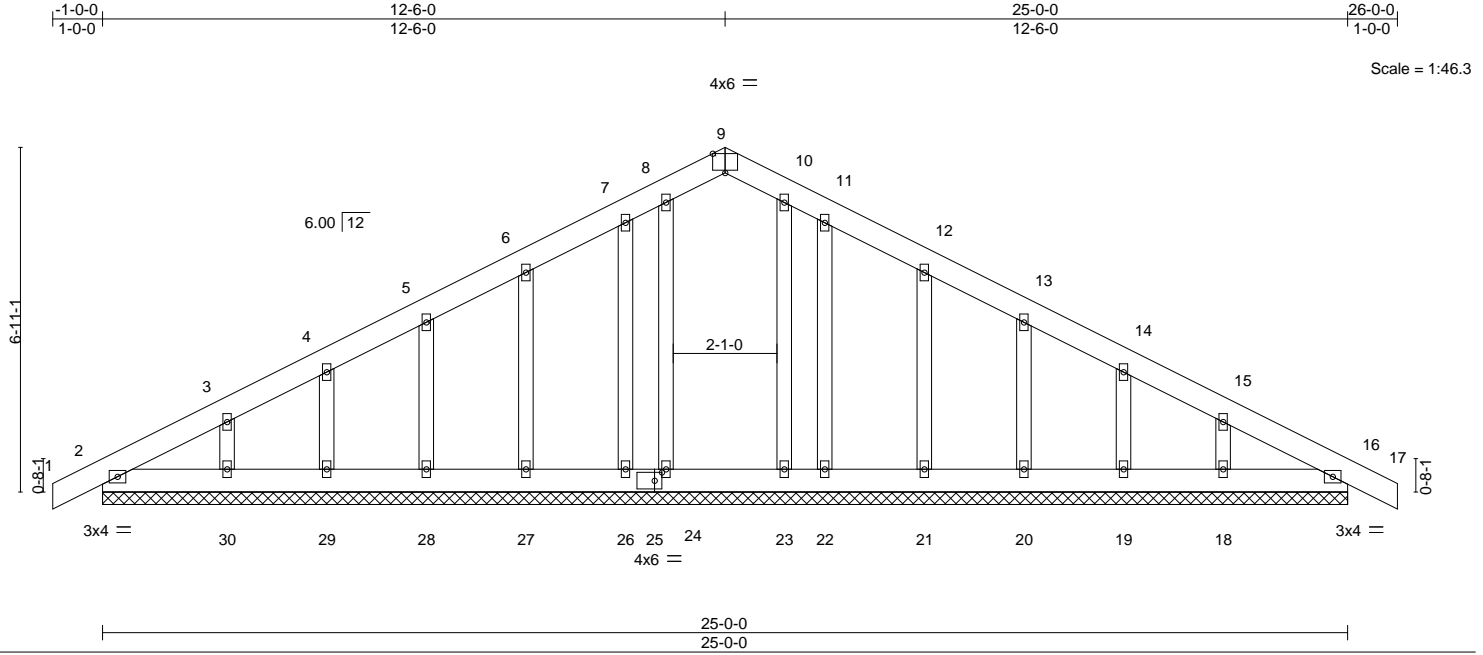


Plate Offsets (X,Y)--	[9:0-3-0,Edge], [25:0-1-12,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 16 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 16 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 16 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 191 lb	FT = 20%

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

REACTIONS. All bearings 25-0-0.
 (lb) - Max Horz 2=113(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18
 Max Grav All reactions 250 lb or less at joint(s) 2, 24, 23, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18, 16

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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, with BCDL = 10.0psf.

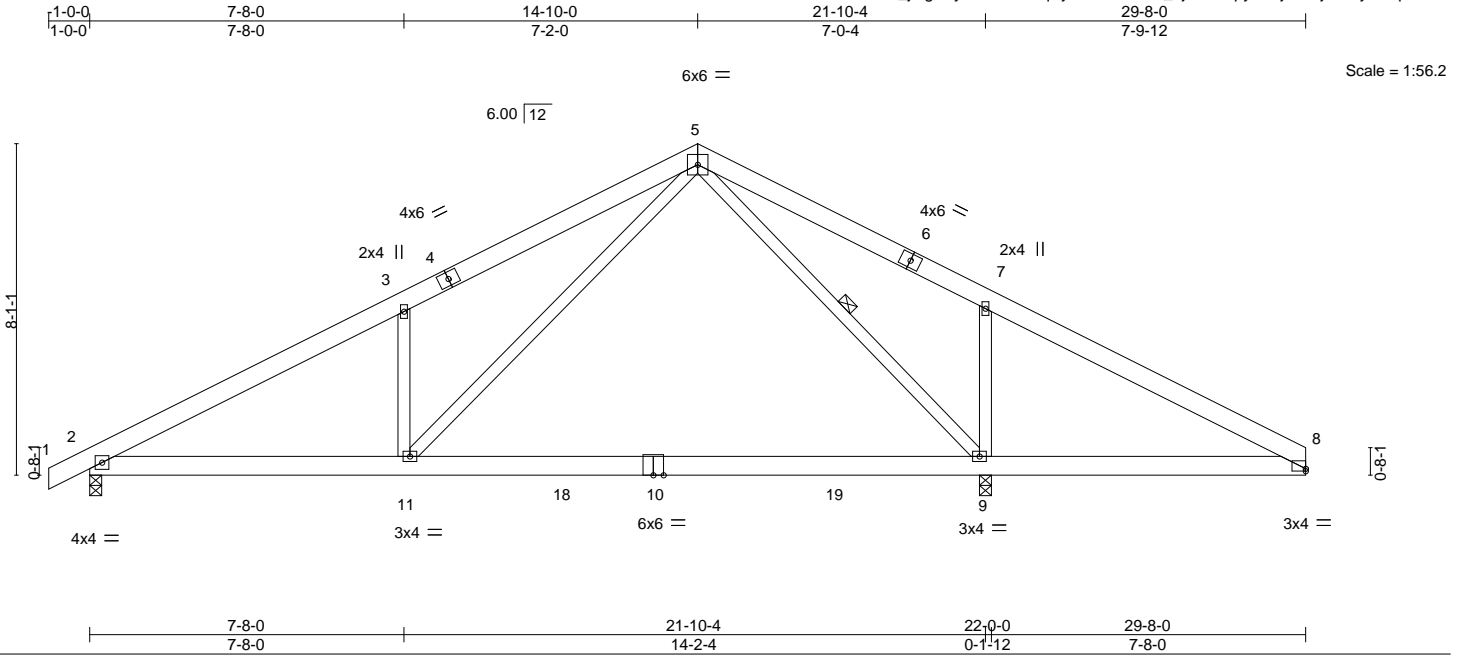


November 5, 2021

Job 29043-29043A	Truss E	Truss Type Common	Qty 3	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675544
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:57 2021 Page 1
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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	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.37 9-11 >716 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.58 9-11 >453 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-9

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=140(LC 16)
 Max Uplift 2=-144(LC 12), 9=-189(LC 13)
 Max Grav 2=835(LC 23), 9=1610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1272/258, 3-5=-1279/446, 5-7=0/542, 7-8=-144/582
 BOT CHORD 2-11=-186/1096, 9-11=-35/398, 8-9=-415/194
 WEBS 3-11=-471/335, 5-11=-265/1042, 5-9=-1081/216, 7-9=-520/345

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.



Job 29043-29043A	Truss E1E	Truss Type Common Supported Gable	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675545
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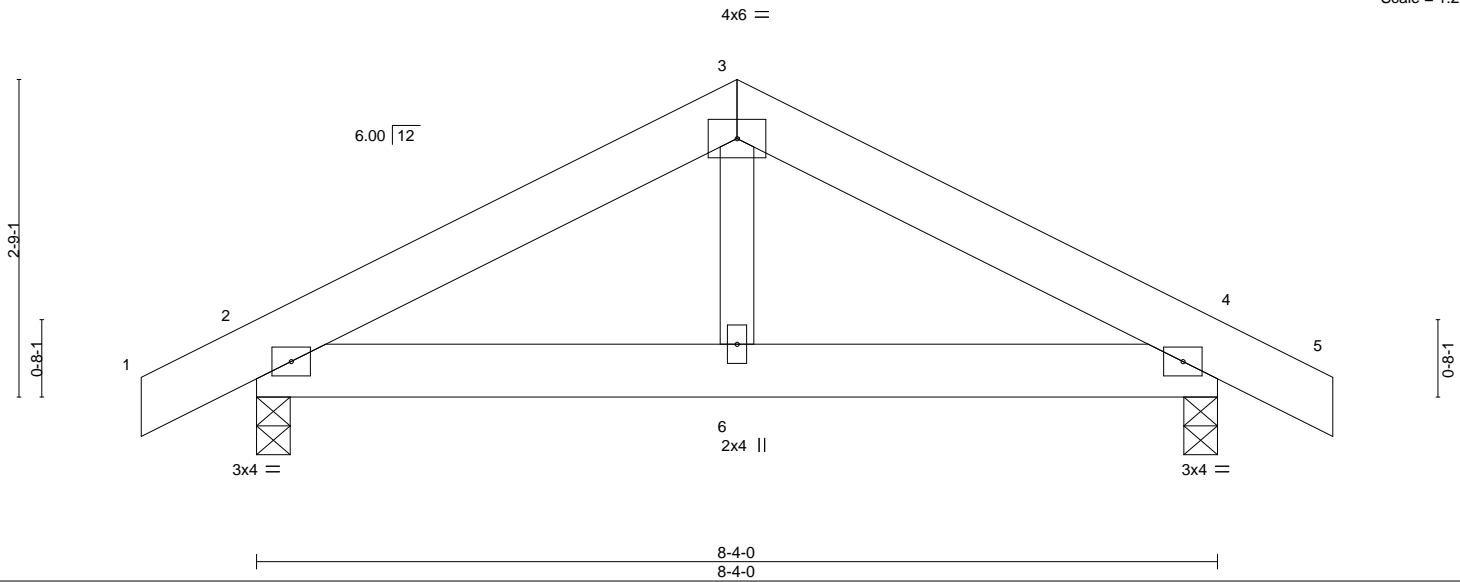
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:58 2021 Page 1

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Scale = 1:20.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 4-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.01 4-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 50 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=43(LC 16)
 Max Uplift 2=-62(LC 12), 4=-62(LC 13)
 Max Grav 2=390(LC 1), 4=390(LC 1)

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

TOP CHORD 2-3=-383/101, 3-4=-383/101
 BOT CHORD 2-6=-1/278, 4-6=-1/278

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; 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.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.



November 5, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

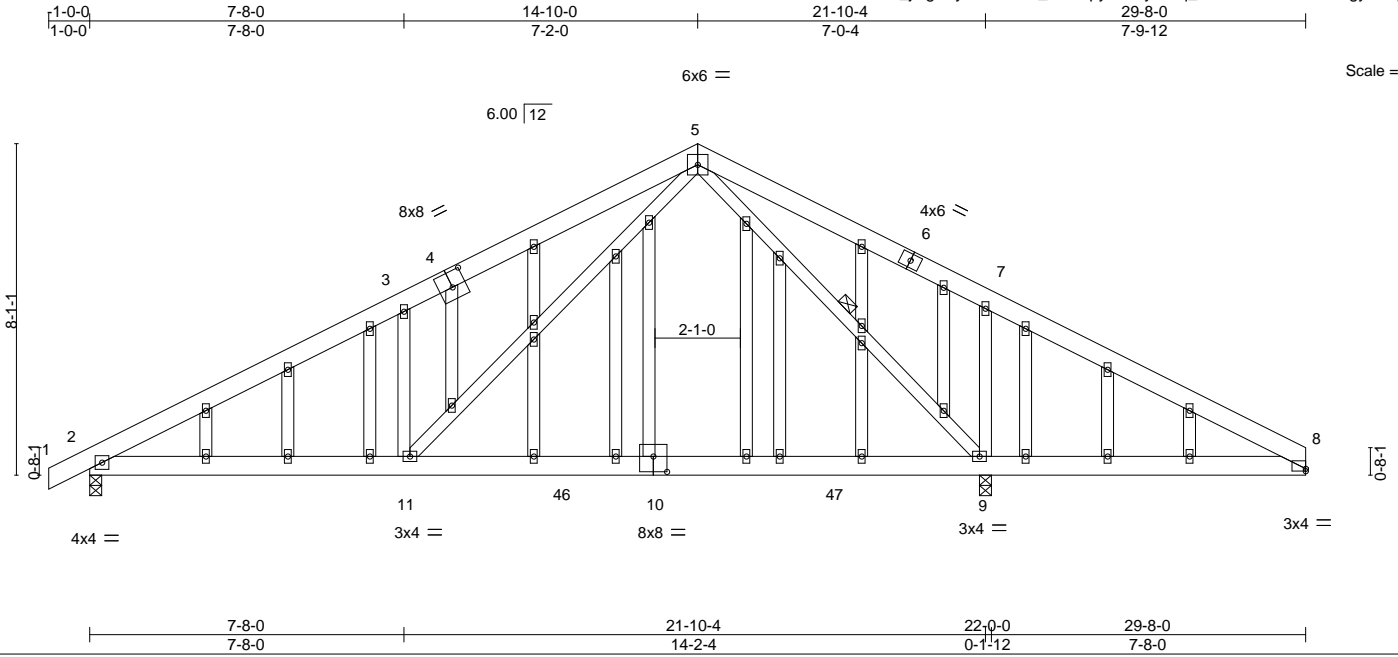


818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss EE	Truss Type GABLE	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675546
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:58:59 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-UY_bbe2tpy5nodyi5alq_Rb9RbETB8l2i1BRcgyMZqQ



Scale = 1:56.2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [8:0-0-0,0-0-11], [10:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.37	9-11	>716	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.58	9-11	>453	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=140(LC 16)
Max Uplift 2=144(LC 12), 9=189(LC 13)
Max Grav 2=835(LC 23), 9=1610(LC 1)

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

TOP CHORD 2-3=-1272/258, 3-5=-1279/446, 5-7=0/542, 7-8=-144/582
BOT CHORD 2-11=-186/1096, 9-11=-35/398, 8-9=-415/194
WEBS 3-11=-471/335, 5-11=-265/1042, 5-9=-1081/216, 7-9=-520/345

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.



November 5, 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 29043-29043A	Truss EGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	WEST-SHERMAN 106-21-180	148675547
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:01 2021 Page 1

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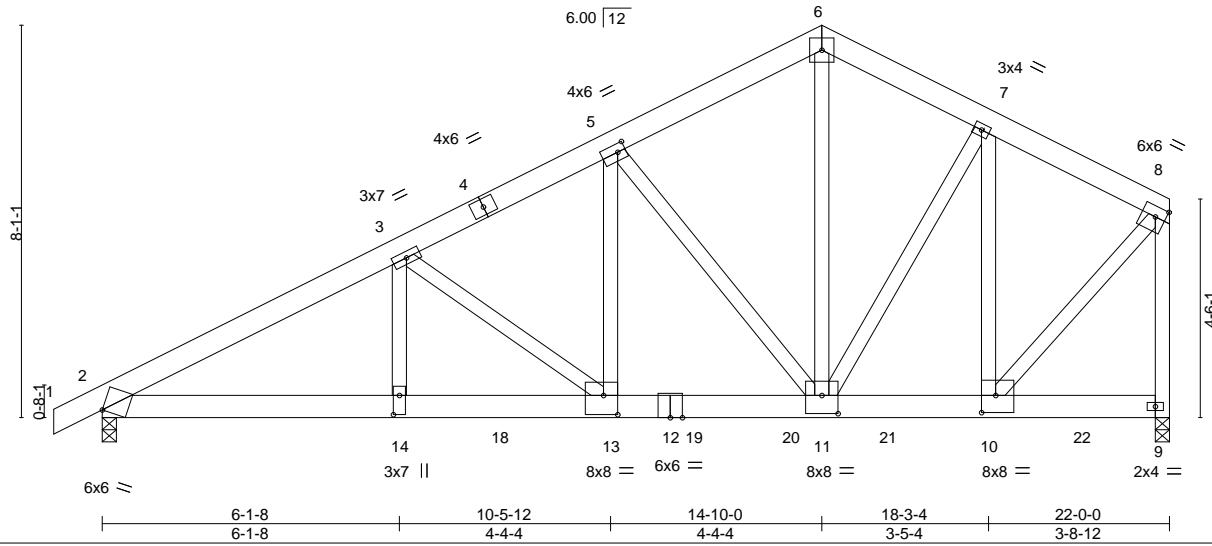


Plate Offsets (X,Y)-- [5:0-2-0,0-2-0], [8:0-2-8,0-2-8], [10:0-3-8,0-4-4], [11:0-4-0,0-4-8], [13:0-3-8,0-4-12], [14:0-4-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.13	13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.26	13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 546 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.3 *Except*
 8-10: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=226(LC 35)
 Max Uplift 2=-1386(LC 12), 9=-1320(LC 12)
 Max Grav 2=8165(LC 1), 9=10057(LC 1)

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

TOP CHORD 2-3=-16332/2897, 3-5=-12560/2200, 5-6=-7868/1347, 6-7=-7821/1348, 7-8=-6338/952, 8-9=-9312/1389
 BOT CHORD 2-14=-2656/14424, 13-14=-2656/14424, 11-13=-1955/11239, 10-11=-804/5580
 WEBS 3-14=-740/4114, 3-13=-3979/874, 5-13=-1308/7023, 5-11=-6750/1379, 6-11=-1060/6573, 7-11=-609/2885, 7-10=-3116/757, 8-10=-1205/8373

NOTES-

- 3-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: 2x6 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 2 rows staggered at 0-4-0 oc, Except member 13-3 2x4 - 1 row at 0-9-0 oc, member 5-13 2x4 - 1 row at 0-9-0 oc, member 11-5 2x4 - 1 row at 0-9-0 oc, member 11-6 2x4 - 1 row at 0-9-0 oc, member 11-7 2x4 - 1 row at 0-9-0 oc, member 7-10 2x4 - 1 row at 0-9-0 oc, member 10-8 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One HTS20 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3804 lb down and 762 lb up at 6-3-0, 1854 lb down and 340 lb up at 8-2-4, 1854 lb down and 347 lb up at 10-2-4, 1854 lb down and 341 lb up at 12-2-4, 1889 lb down and 335 lb up at 14-2-4, 1854 lb down and 136 lb up at 16-2-4, and 1854 lb down and 136 lb up at 18-2-4, and 1488 lb down and 335 lb up at 20-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 5, 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 29043-29043A	Truss EGR	Truss Type COMMON GIRDER	Qty 1	Ply 3	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675547
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:01 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-8=-60, 9-15=-20

Concentrated Loads (lb)

Vert: 14=-3804(B) 13=-1854(B) 10=-1854(B) 18=-1854(B) 19=-1854(B) 20=-1854(B) 21=-1854(B) 22=-1488(B)

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818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss FGR	Truss Type Roof Special Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675548
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:02 2021 Page 1

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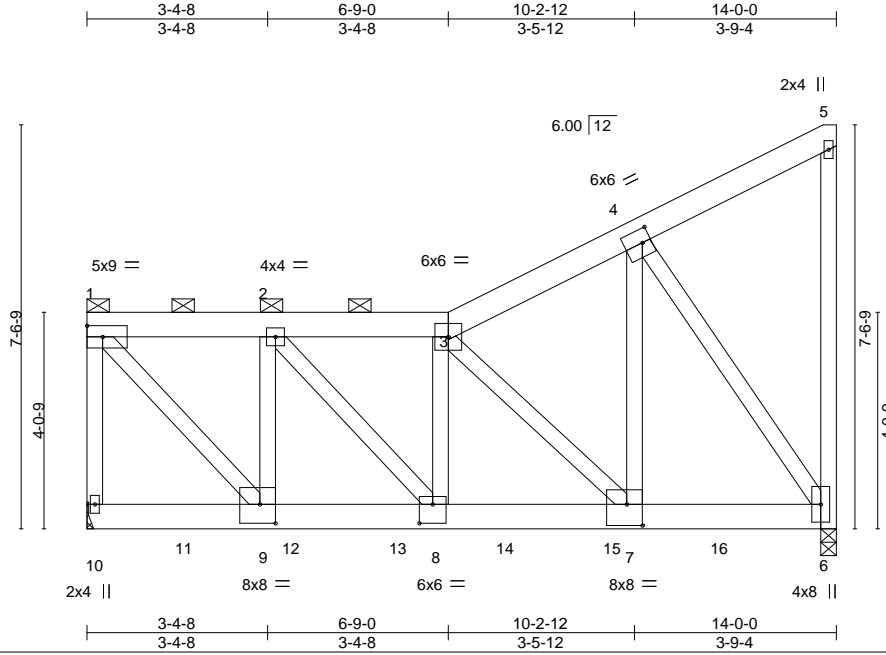


Plate Offsets (X,Y)-- [4:0-2-0,0-3-0], [7:0-3-8,0-4-12], [8:0-3-0,0-4-4], [9:0-3-8,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.06	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.11	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 1-9,4-7,2-8: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=Mechanical, 6=0-3-8
 Max Horz 10=136(LC 12)
 Max Uplift 10=-523(LC 12), 6=-652(LC 12)
 Max Grav 10=4654(LC 1), 6=4726(LC 1)

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

TOP CHORD 1-10=-4209/521, 1-2=-3676/429, 2-3=-5194/571, 3-4=-3218/329
 BOT CHORD 8-9=-589/3676, 7-8=-728/5163, 6-7=-416/2861
 WEBS 1-9=-641/5494, 3-8=-115/750, 3-7=-3306/449, 4-7=-617/5344, 4-6=-5068/736,
 2-8=-213/2269, 2-9=-1827/274

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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.
- 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;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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 10=523.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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.

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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 29043-29043A	Truss FGR	Truss Type Roof Special Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675548
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:02 2021 Page 2
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NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1210 lb down and 139 lb up at 1-9-12, 1210 lb down and 148 lb up at 3-9-12, 1466 lb down and 184 lb up at 5-9-12, 1466 lb down and 184 lb up at 7-9-12, and 1466 lb down and 184 lb up at 9-9-12, and 1466 lb down and 184 lb up at 11-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 11=-1210(B) 12=-1210(B) 13=-1466(B) 14=-1466(B) 15=-1466(B) 16=-1466(B)

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



818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss FH	Truss Type Hip Girder	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675549
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:04 2021 Page 1
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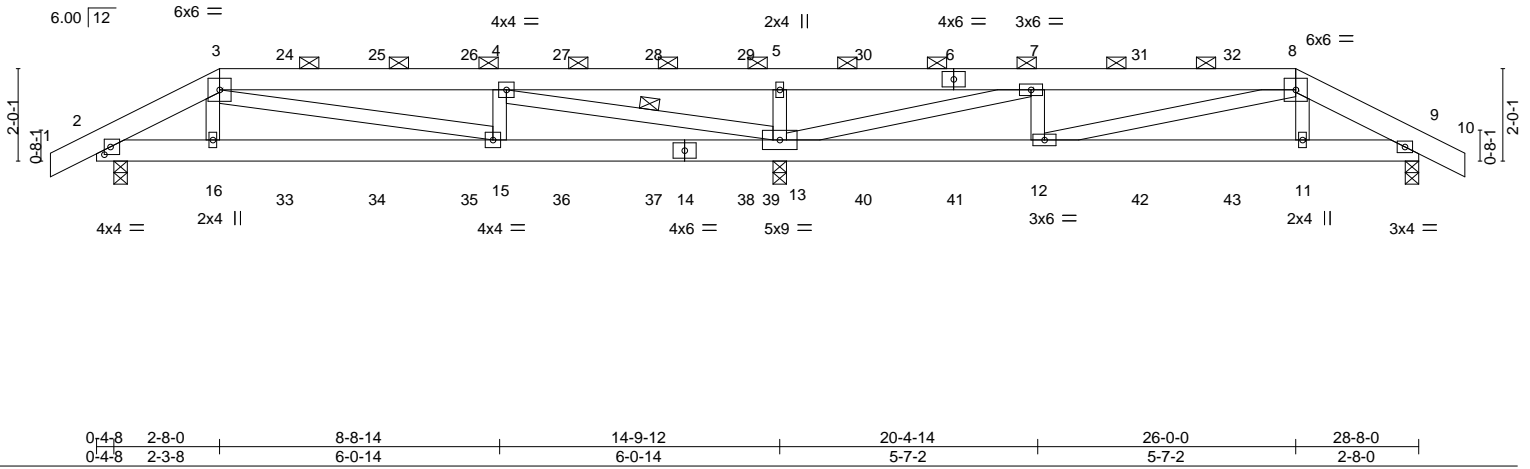


Plate Offsets (X,Y)-- [2:0-1-10,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.05 15-16 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.10 15-16 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.84	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 184 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.): 3-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 2=31(LC 39)
 Max Uplift 2=-99(LC 12), 13=-275(LC 9), 9=-90(LC 13)
 Max Grav 2=634(LC 23), 13=1411(LC 1), 9=555(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-777/144, 3-4=-1039/240, 4-5=-59/403, 5-7=-105/507, 7-8=-750/178, 8-9=-836/147
 BOT CHORD 2-16=-97/648, 15-16=-104/647, 13-15=-185/1039, 12-13=-118/750, 11-12=-90/711, 9-11=-84/722
 WEBS 3-15=-95/408, 4-13=-1482/289, 5-13=-456/203, 7-13=-1309/283

- 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 13, and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 69 lb up at 2-8-0, 25 lb down and 60 lb up at 4-0-12, 25 lb down and 60 lb up at 6-0-12, 25 lb down and 60 lb up at 8-0-12, 25 lb down and 60 lb up at 10-0-12, 25 lb down and 60 lb up at 12-0-12, 25 lb down and 60 lb up at 14-0-12, 25 lb down and 60 lb up at 14-7-4, 25 lb down and 60 lb up at 16-7-4, 25 lb down and 60 lb up at 18-7-4, 25 lb down and 60 lb up at 20-7-4, 25 lb down and 60 lb up at 22-7-4, and 25 lb down and 60 lb up at 24-7-4, and 33 lb down and 78 lb up at 26-0-0 on top chord, and 26 lb down and 11 lb up at 2-8-0, 15 lb down at 4-0-12, 15 lb down at 6-0-12, 15 lb down at 8-0-12, 15 lb down at 10-0-12, 15 lb down at 12-0-12, 15 lb down at 14-0-12, 15 lb down at 14-7-4, 15 lb down at 16-7-4, 15 lb down at 18-7-4, 15 lb down at 20-7-4, 15 lb down at 22-7-4, and 15 lb down at 24-7-4, and 20 lb down at 26-0-0 on bottom 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



November 5, 2021

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	I48675549
29043-29043A	FH	Hip Girder	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:04 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 17-21=-20

Concentrated Loads (lb)

Vert: 6=-4(B) 16=11(B) 5=-4(B) 7=-4(B) 12=-11(B) 8=-5(B) 11=-17(B) 24=-4(B) 25=-4(B) 26=-4(B) 27=-4(B) 28=-4(B) 29=-4(B) 30=-4(B) 31=-4(B) 32=-4(B) 33=-11(B) 34=-11(B) 35=-11(B) 36=-11(B) 37=-11(B) 38=-11(B) 39=-11(B) 40=-11(B) 41=-11(B) 42=-11(B) 43=-11(B)

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



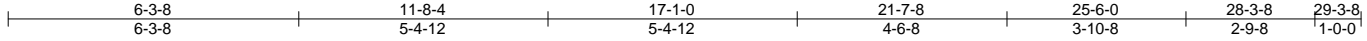
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675551
29043-29043A	FH2	Hip	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:07 2021 Page 1

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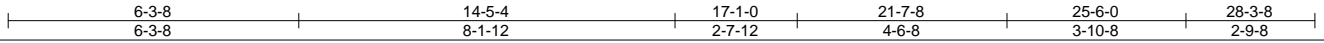
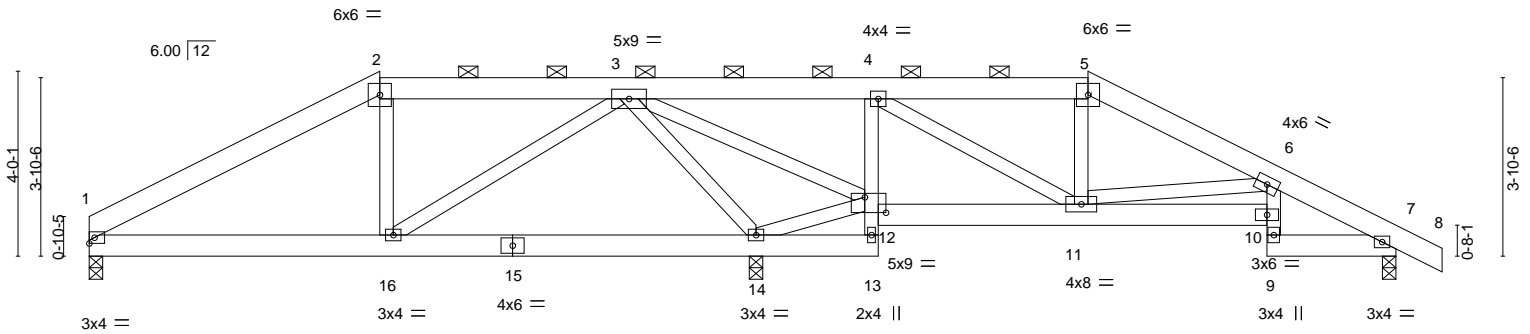


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [5:0-0-0,0-0-0], [12:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.03	10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.05	10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 4-13,6-9: 2x4 SP No.3
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 2-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13

REACTIONS.

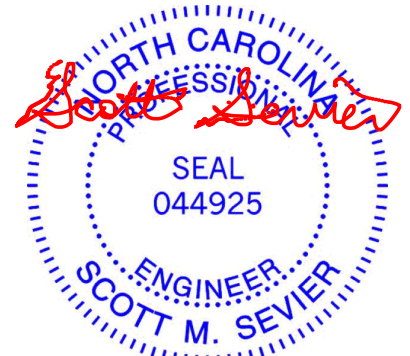
(size) 1=0-3-8, 7=0-3-8, 14=0-3-8
 Max Horz 1=-75(LC 13)
 Max Uplift 1=-74(LC 12), 7=-94(LC 13), 14=-159(LC 8)
 Max Grav 1=463(LC 23), 7=465(LC 1), 14=1426(LC 1)

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

TOP CHORD 1-2=-564/149, 2-3=-429/176, 4-5=-335/154, 5-6=-413/143, 6-7=-612/184
 BOT CHORD 1-16=-40/432, 4-12=-632/192, 10-11=-154/746, 7-9=-104/487
 WEBS 3-16=-43/501, 3-14=-1230/329, 12-14=-883/268, 3-12=-173/724, 4-11=-87/604,
 6-11=-410/157

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 7, and 14. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 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



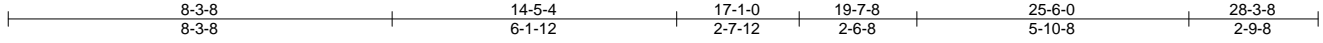
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss FH3	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675552
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:08 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-jh1?Uj9WijDVN?8R7zQxrLTJMEGOo8rNmwsPQeyMZqH



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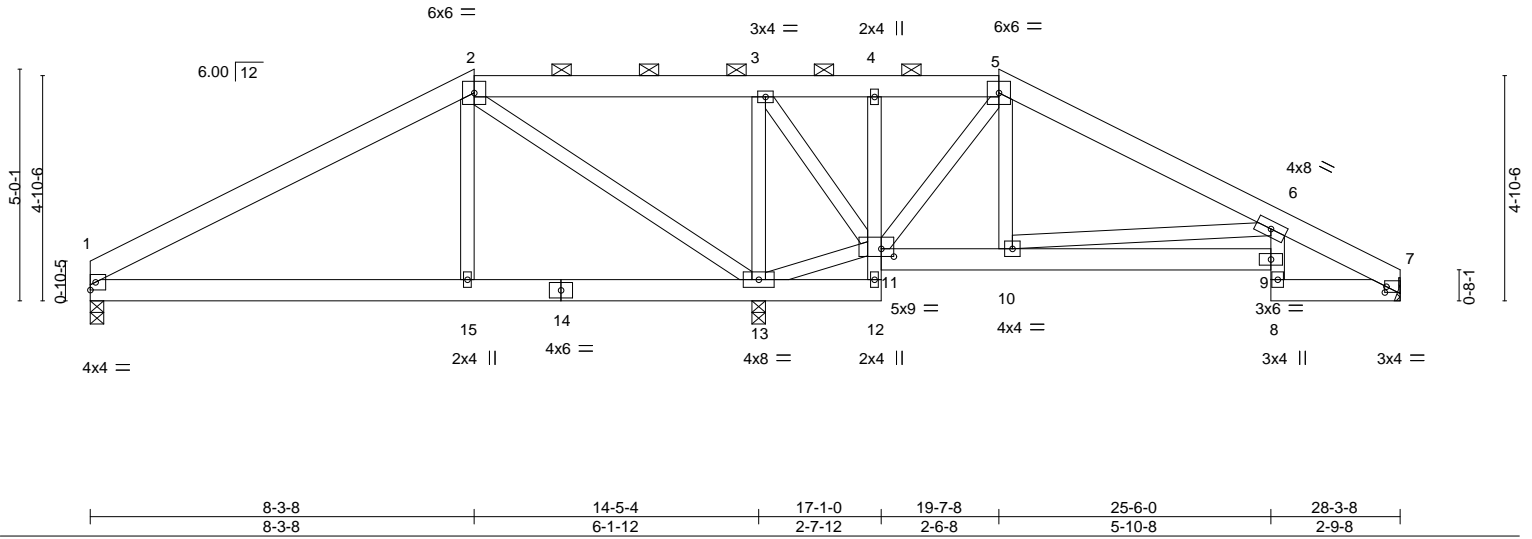


Plate Offsets (X,Y)-- [7:0-0-6,0-1-8], [11:0-3-4,0-2-0]

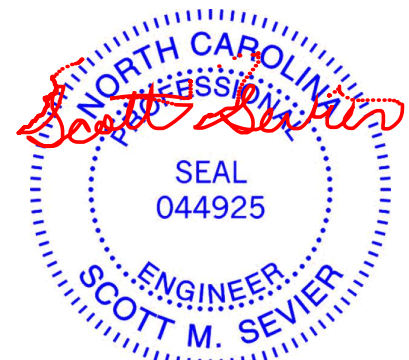
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.03	9-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.07	15-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 197 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
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (10-0-0 max.): 2-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 7=Mechanical, 13=0-3-8
 Max Horz 1=-75(LC 13)
 Max Uplift 1=-95(LC 12), 7=-66(LC 13), 13=-118(LC 8)
 Max Grav 1=493(LC 23), 7=398(LC 1), 13=1438(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-528/124, 2-3=0/488, 5-6=-254/108, 6-7=-652/213
 BOT CHORD 1-15=-70/377, 13-15=-73/371, 9-10=-240/866, 7-8=-156/535
 WEBS 2-15=0/326, 2-13=-848/177, 3-13=-745/205, 11-13=-456/145, 3-11=-75/467,
 5-11=-608/120, 5-10=0/310, 6-10=-698/281

- 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; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



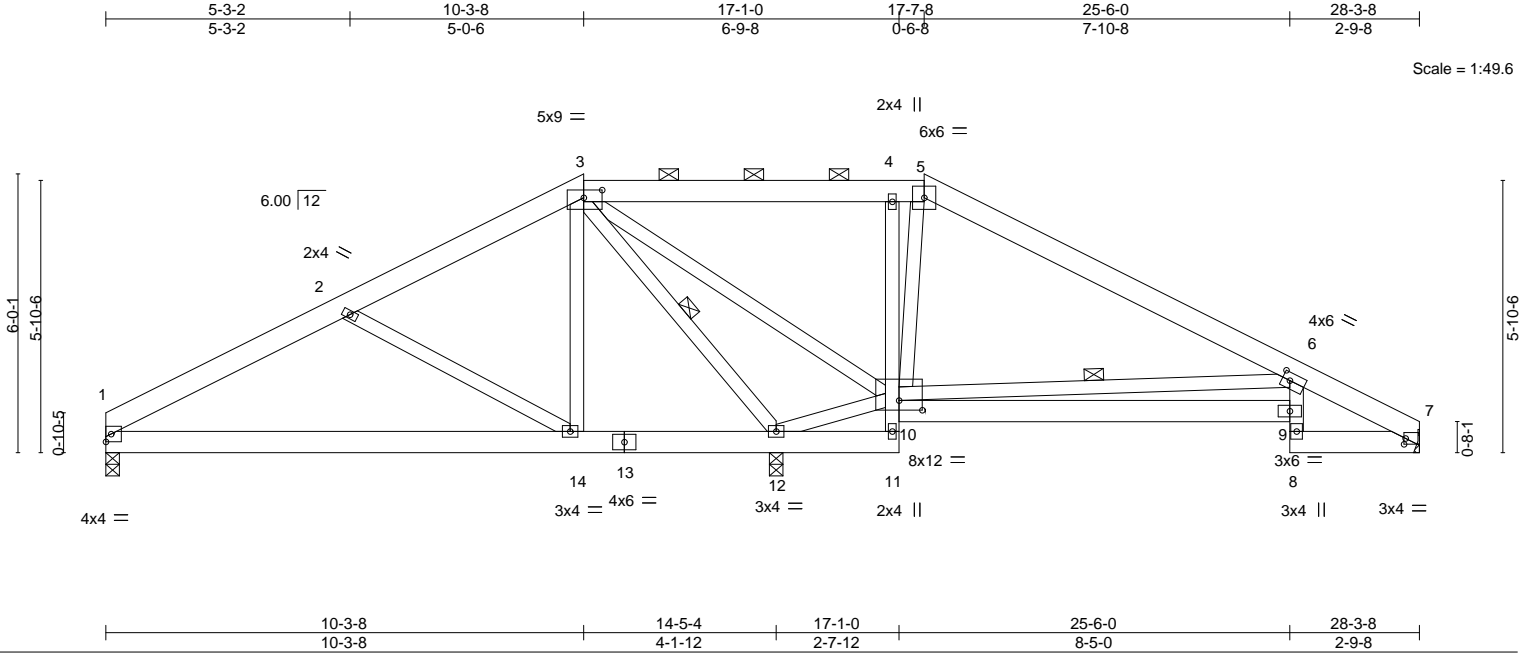
November 5, 2021

Job 29043-29043A	Truss FH4	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675553
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:09 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-BUBNi3A8T1LM_9jdhxANY0tweOXjXW?aczz5yMZqG



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.07 9-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.16 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.04 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 207 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 (10'-0-0 max.): 3-5.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-12, 6-10

REACTIONS. (size) 1=0-3-8, 7=Mechanical, 12=0-3-8
 Max Horz 1=-92(LC 13)
 Max Uplift 1=-68(LC 12), 7=-45(LC 13), 12=-121(LC 13)
 Max Grav 1=447(LC 23), 7=337(LC 24), 12=1601(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-524/138, 3-4=0/274, 4-5=-3/265, 5-6=-83/346, 6-7=-563/151
 BOT CHORD 1-14=-140/436, 4-10=-372/201, 9-10=-178/864, 6-9=0/254, 7-8=-121/475
 WEBS 2-14=-392/229, 3-14=0/420, 3-12=-1517/330, 10-12=-857/399, 3-10=-184/906, 5-10=-377/198, 6-10=-1032/379

- 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; 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 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.



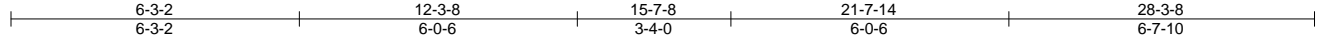
November 5, 2021

Job 29043-29043A	Truss FH5	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675554
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:10 2021 Page 1

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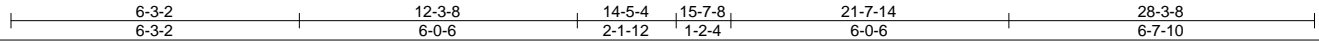
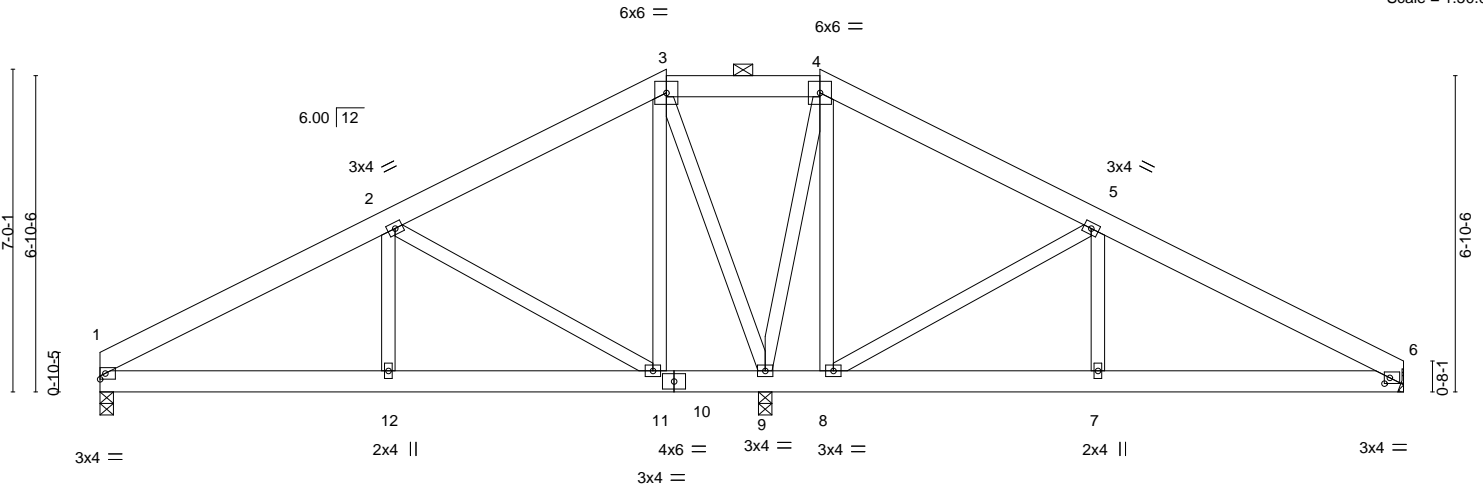


Plate Offsets (X,Y)-- [6:0-1-6,0-1-8]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.02	7-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.03	7-18	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 205 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 6=Mechanical, 9=0-3-8
Max Horz 1=-109(LC 13)
Max Uplift 1=-75(LC 12), 6=-89(LC 13), 9=-90(LC 12)
Max Grav 1=478(LC 23), 6=451(LC 24), 9=1405(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-616/159, 3-4=0/272, 4-5=0/251, 5-6=-549/148
BOT CHORD 1-12=-125/484, 11-12=-125/484, 7-8=-48/446, 6-7=-48/446
WEBS 2-12=0/265, 2-11=-581/228, 3-11=-32/323, 3-9=-612/128, 4-9=-566/114, 4-8=-19/277, 5-8=-633/241, 5-7=0/286

- 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; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss G	Truss Type Roof Special	Qty 2	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675555
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:11 2021 Page 1
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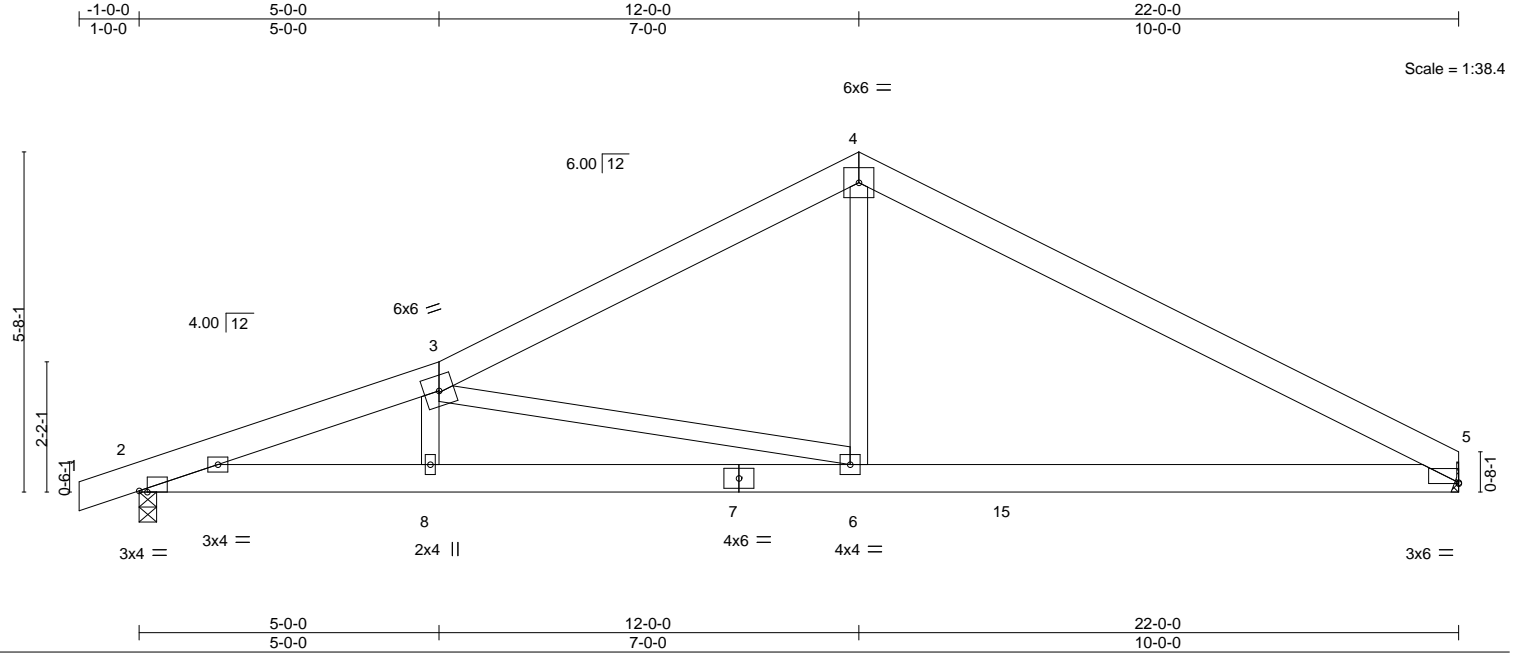


Plate Offsets (X,Y)-- [2:0-1-10,Edge], [5:0-0-0,0-0-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) 0.09 6-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.17 6-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 5=Mechanical, 2=0-3-8
 Max Horz 2=100(LC 12)
 Max Uplift 5=-96(LC 13), 2=-135(LC 12)
 Max Grav 5=879(LC 1), 2=941(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2092/485, 3-4=-1227/327, 4-5=-1271/314
 BOT CHORD 2-8=-422/1968, 6-8=-429/1964, 5-6=-143/1026
 WEBS 3-6=-981/294, 4-6=-7/583

- 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; 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
 - 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



November 5, 2021

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675556
29043-29043A	GH	Roof Special Girder	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:13 2021 Page 2
 ID:2bG0dF?FQwaXcMo_jugPayMcRK-3FqtXQDfWFsoTm1PwW76YOBXjF2TTSH6wCaA6syMZqC

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=-18(F) 9=-18(F) 4=-15(F) 18=-15(F) 19=-15(F) 20=-15(F) 21=-15(F) 22=-15(F) 23=-15(F) 24=-95(F) 25=-89(F) 26=-18(F) 27=-18(F) 28=-18(F) 29=-18(F)
 30=-18(F) 31=-108(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	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675557
29043-29043A	GH1	Hip	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:14 2021 Page 1
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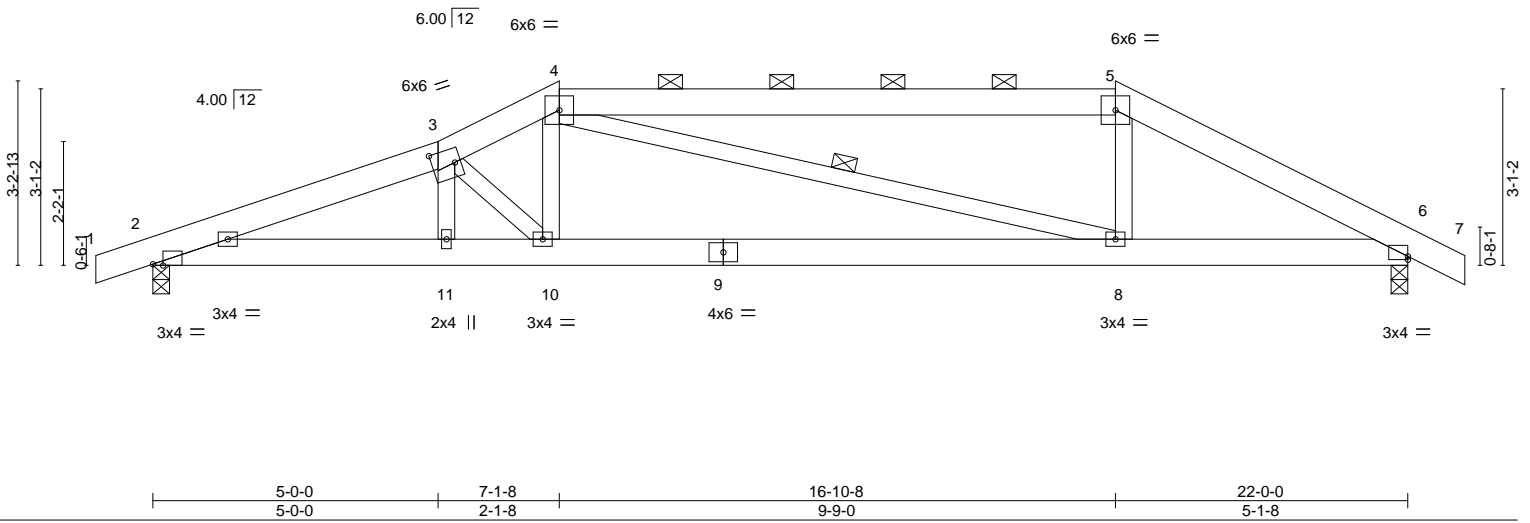


Plate Offsets (X,Y)-- [2:0-2-2,Edge], [3:0-4-12,0-3-0], [6:0-0-0,0-0-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.08 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.19 8-10 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 139 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins, except 2-0-0 oc purlins (4-4-9 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-8

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-51(LC 17)
 Max Uplift 2=-151(LC 8), 6=-82(LC 8)
 Max Grav 2=940(LC 1), 6=940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2064/455, 3-4=-1880/391, 4-5=-1387/334, 5-6=-1604/317
 BOT CHORD 2-11=-361/1933, 10-11=-363/1930, 8-10=-268/1714, 6-8=-205/1400
 WEBS 3-10=-257/135, 4-10=0/518, 4-8=-434/75, 5-8=0/390

- 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. 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.



November 5, 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



Job 29043-29043A	Truss GH2	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675558
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:15 2021 Page 1
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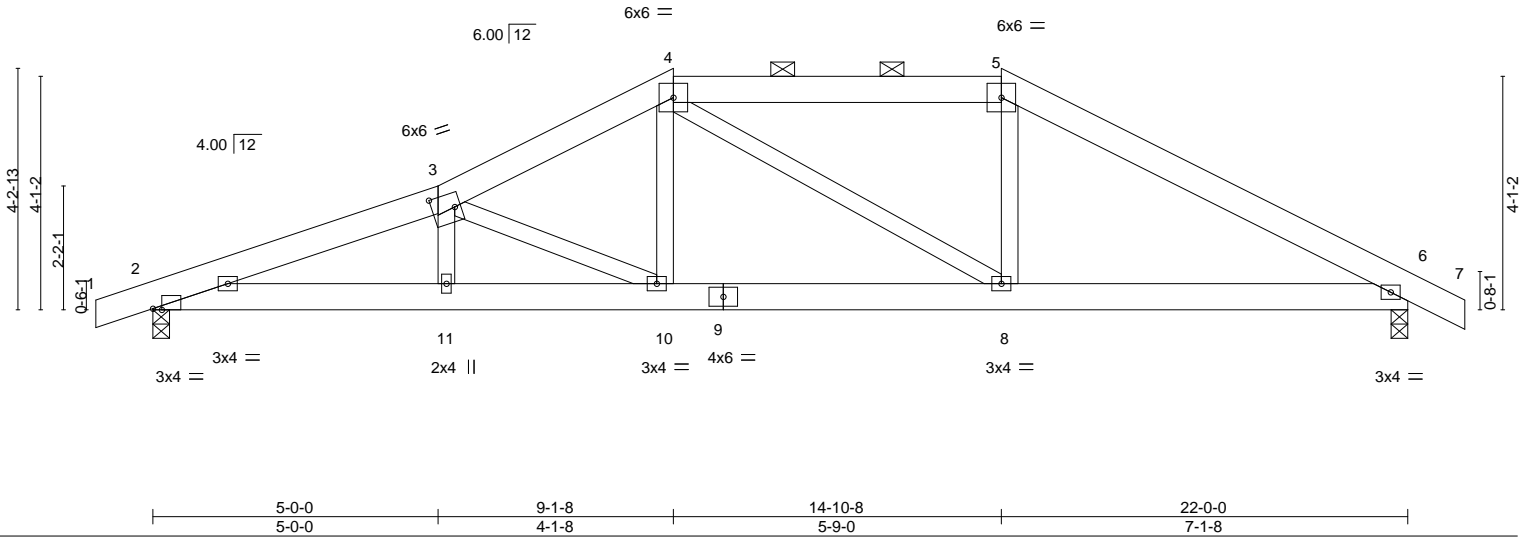


Plate Offsets (X,Y)-- [2:0-1-14,Edge], [3:0-4-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.05 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.10 10-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 140 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except
2-0-0 oc purlins (6-0-0 max.); 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-68(LC 17)
Max Uplift 2=-115(LC 12), 6=-94(LC 13)
Max Grav 2=940(LC 1), 6=940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2079/473, 3-4=-1494/357, 4-5=-1194/339, 5-6=-1426/318
BOT CHORD 2-11=-379/1951, 10-11=-375/1956, 8-10=-187/1301, 6-8=-169/1202
WEBS 3-10=-696/211, 4-10=-21/421, 5-8=0/320

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 5, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss GH3	Truss Type Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675559
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:16 2021 Page 1

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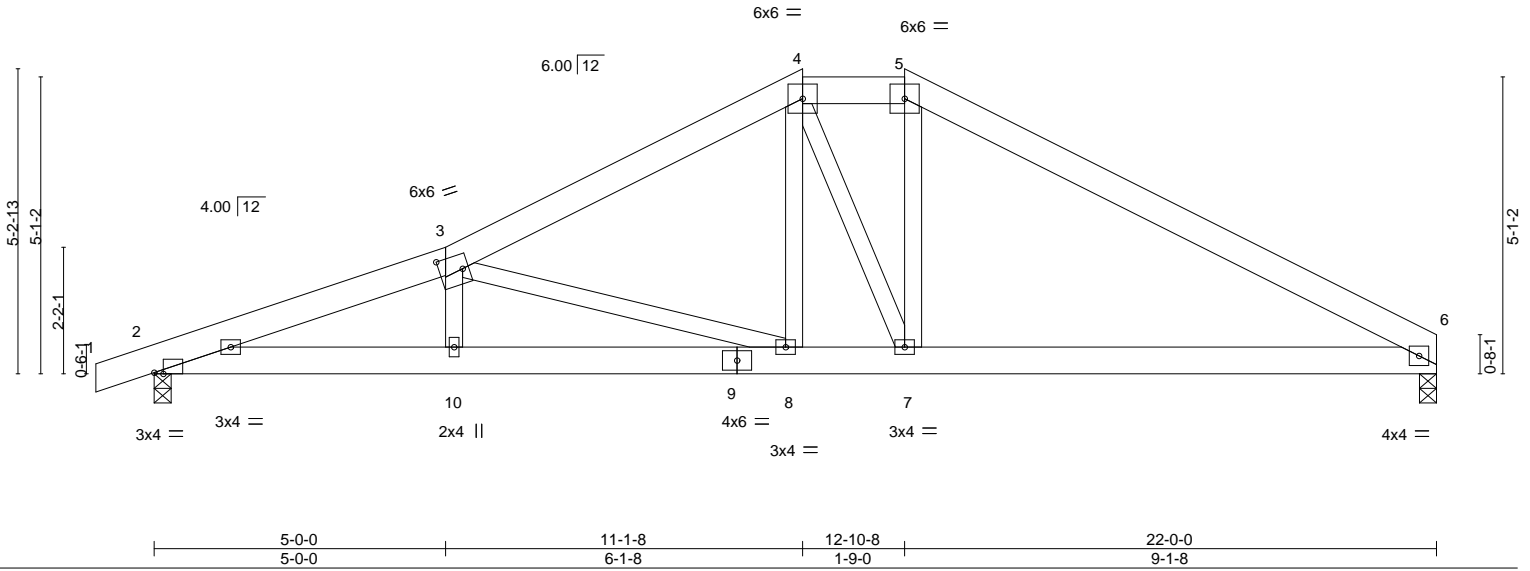


Plate Offsets (X,Y)-- [2:0-1-14,Edge], [3:0-4-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) 0.06 7-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.12 7-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 141 lb	FT = 20%

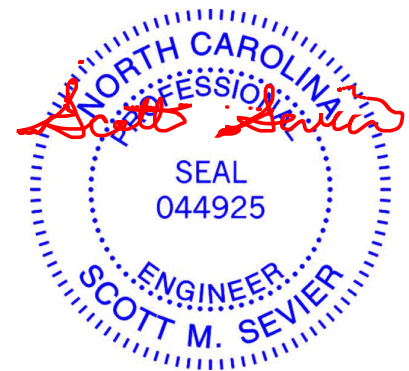
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=92(LC 12)
 Max Uplift 6=-90(LC 13), 2=-130(LC 12)
 Max Grav 6=879(LC 1), 2=941(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2111/494, 3-4=-1273/329, 4-5=-1091/359, 5-6=-1333/323
 BOT CHORD 2-10=-428/1985, 8-10=-422/1992, 7-8=-154/1067, 6-7=-165/1096
 WEBS 3-8=-953/279, 4-8=-23/307, 5-7=-7/293

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. 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.



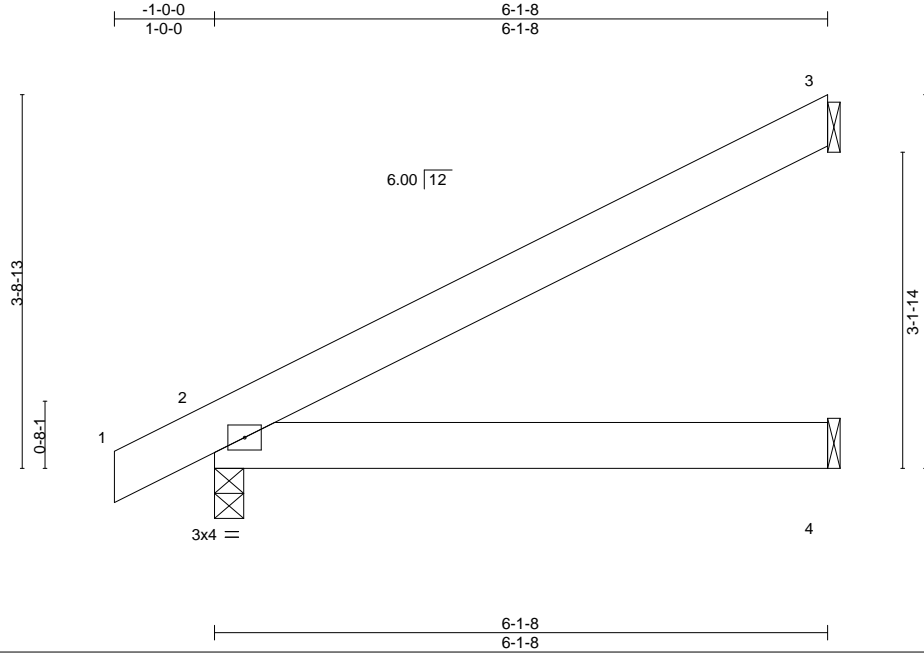
November 5, 2021

Job 29043-29043A	Truss J2	Truss Type Jack-Open	Qty 12	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675560
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84 Components (Dunn), Dunn, NC - 28334,

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ID:2bG0dF?FQwaXcMo_jiugPayMcRK-I_tHQVKIPO_W29D7yvgDPI290tFA4hiQ_6F9wryMZq3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.04	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=134(LC 12)
 Max Uplift 3=88(LC 12), 2=35(LC 12)
 Max Grav 3=159(LC 1), 2=307(LC 1), 4=113(LC 3)

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

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



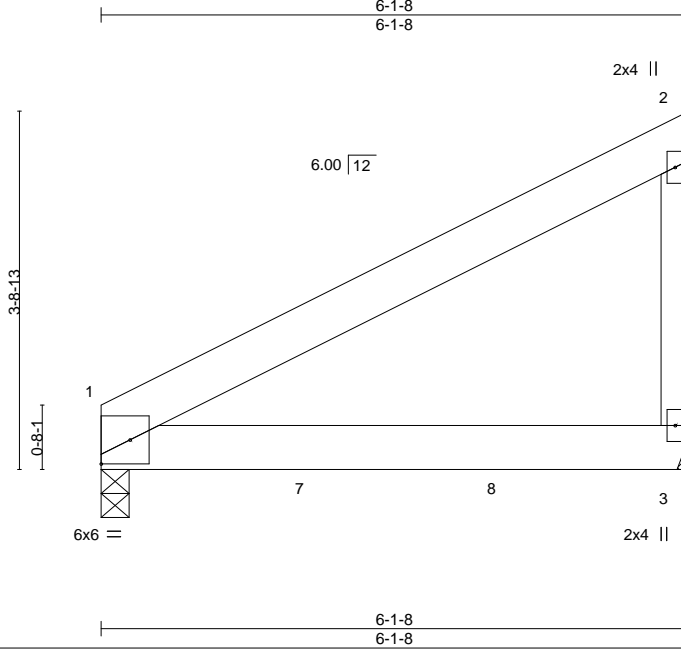
November 5, 2021

Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675561
29043-29043A	J2GR	Jack-Open Girder	1	2	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:23 2021 Page 1

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Scale: 1/2"=1'

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.07	3-6	>968	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.15	3-6	>484	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.01	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 70 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 3=Mechanical
Max Horz 1=116(LC 12)
Max Uplift 1=-112(LC 12), 3=-192(LC 12)
Max Grav 1=1041(LC 1), 3=1155(LC 1)

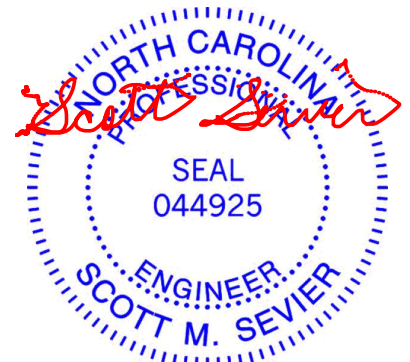
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-3=-318/165

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: 2x6 - 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.
- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=192.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 859 lb down and 116 lb up at 2-2-4, and 859 lb down and 116 lb up at 4-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



November 5, 2021

Continued on page 2

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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 29043-29043A	Truss J2GR	Truss Type Jack-Open Girder	Qty 1	Ply 2	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675561
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:23 2021 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-859(B) 8=-859(B)

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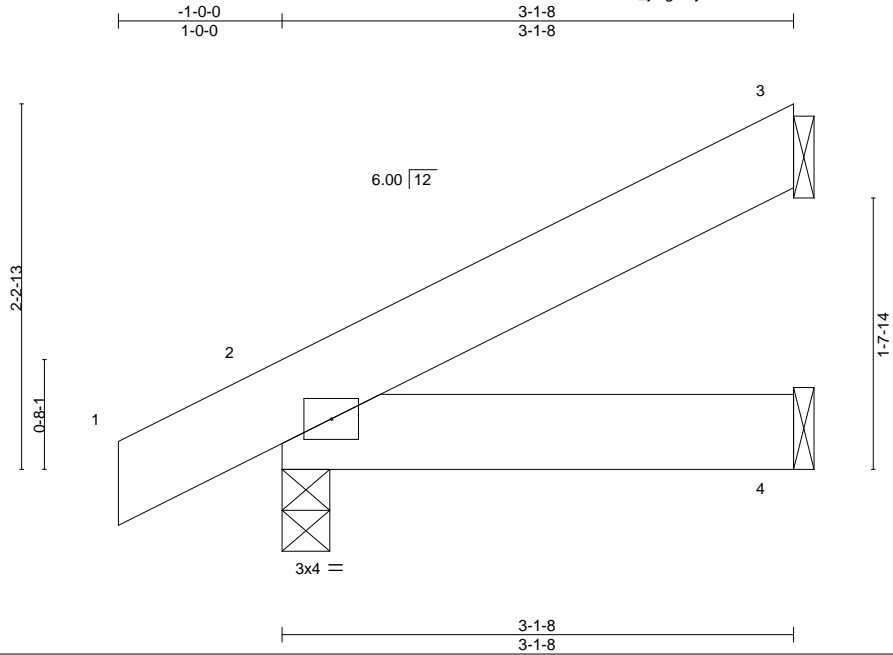
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J3	Truss Type Jack-Open	Qty 7	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675562
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:24 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL) -0.00	7	>999	240		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) -0.00	7	>999	180			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						Weight: 19 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=76(LC 12)
Max Uplift 3=-42(LC 12), 2=-29(LC 12)
Max Grav 3=75(LC 1), 2=192(LC 1), 4=55(LC 3)

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

NOTES-

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



November 5, 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/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 29043-29043A	Truss J3A	Truss Type Half Hip	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675563
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:24 2021 Page 1

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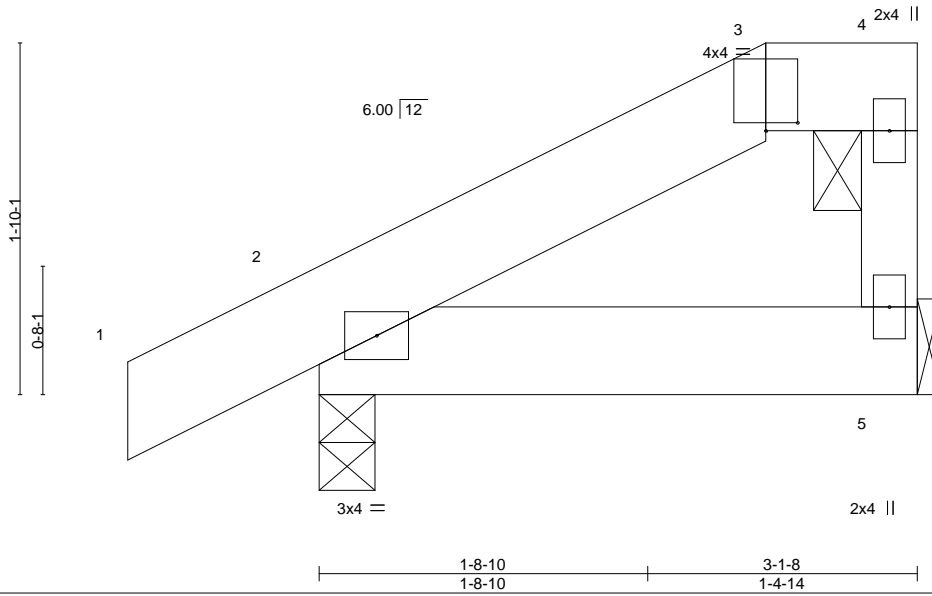
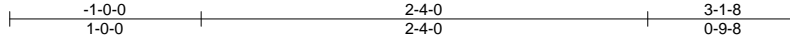


Plate Offsets (X,Y)-- [3:0-2-0,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MR						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8
 Max Horz 2=63(LC 12)
 Max Uplift 5=-20(LC 12), 2=-34(LC 12)
 Max Grav 5=109(LC 1), 2=189(LC 1)

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. 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.



November 5, 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 29043-29043A	Truss J3B	Truss Type Half Hip Girder	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675564
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:25 2021 Page 1
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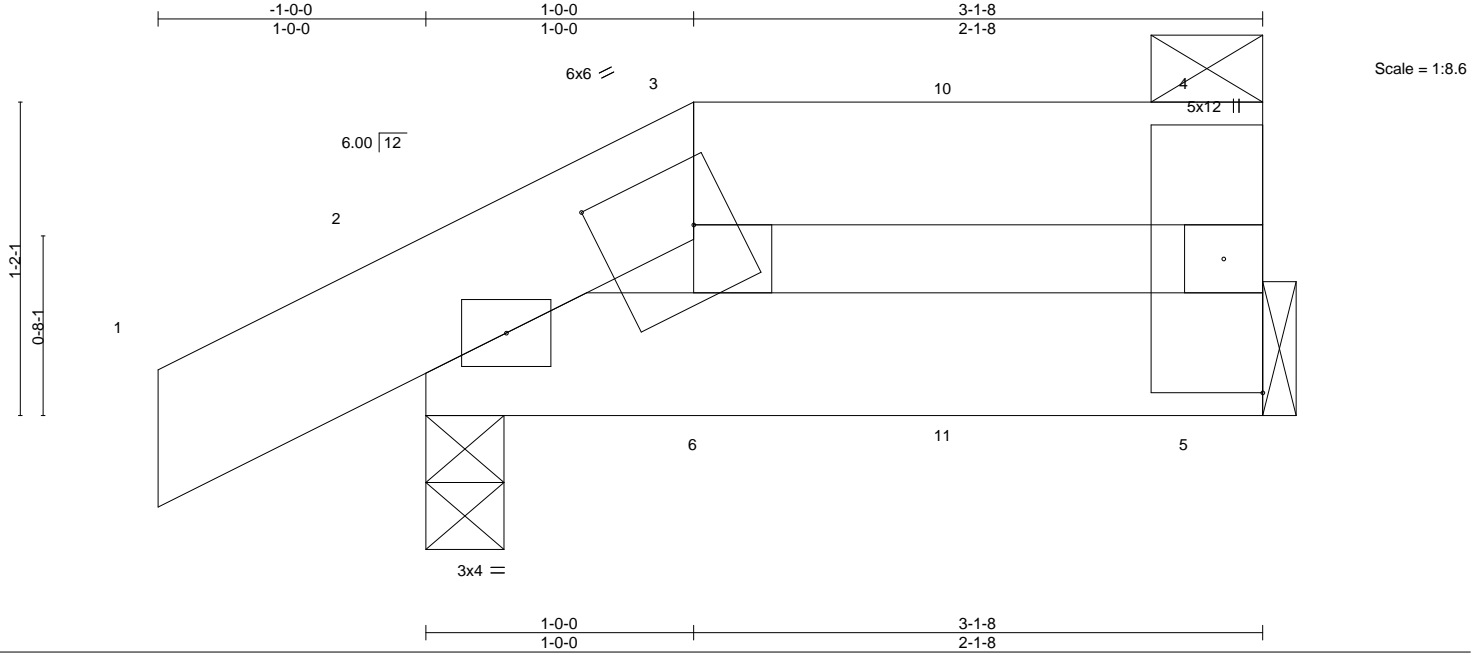


Plate Offsets (X,Y)--	[3:0-4-4,0-2-12]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 5=Mechanical, 2=0-3-8
 Max Horz 2=37(LC 12)
 Max Uplift 5=-26(LC 9), 2=-34(LC 12)
 Max Grav 5=115(LC 1), 2=192(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. 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.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 31 lb up at 1-0-0, and 16 lb down and 37 lb up at 2-0-12 on top chord, and 24 lb down and 14 lb up at 1-0-0, and 9 lb down and 11 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)
 Vert: 11=-9(B)



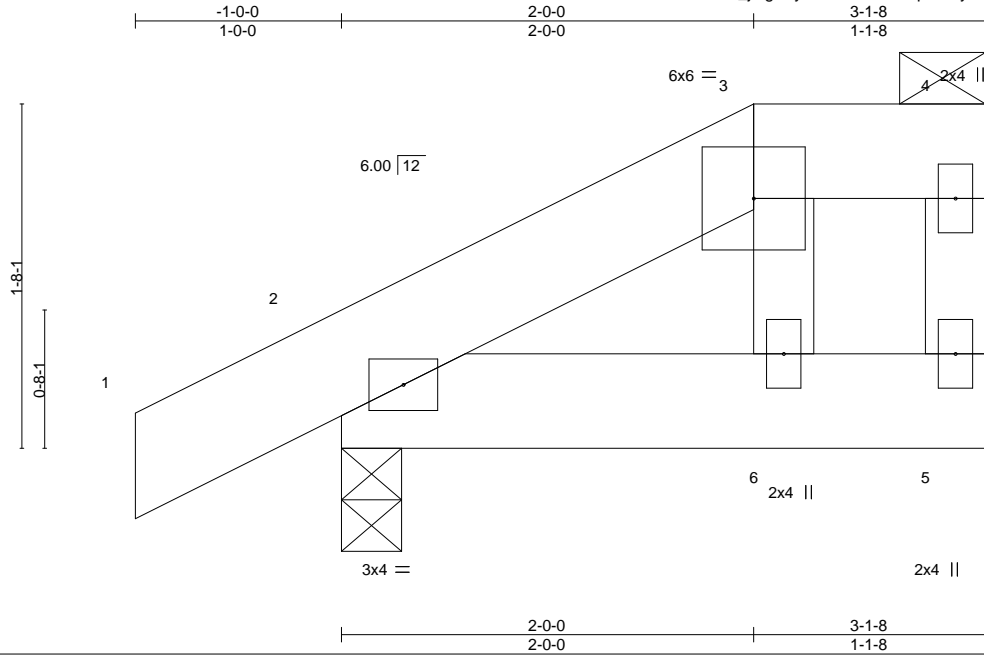
November 5, 2021

Job 29043-29043A	Truss J3C	Truss Type Half Hip Girder	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675565
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:26 2021 Page 1

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Scale = 1:11.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8
Max Horz 2=56(LC 12)
Max Uplift 5=-33(LC 12), 2=-37(LC 12)
Max Grav 5=128(LC 1), 2=191(LC 1)

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 52 lb up at 2-11-12, and 16 lb down and 52 lb up at 2-0-0 on top chord, and 19 lb down at 2-0-0 on bottom 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 4=-14(F) 6=-7(F)



November 5, 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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



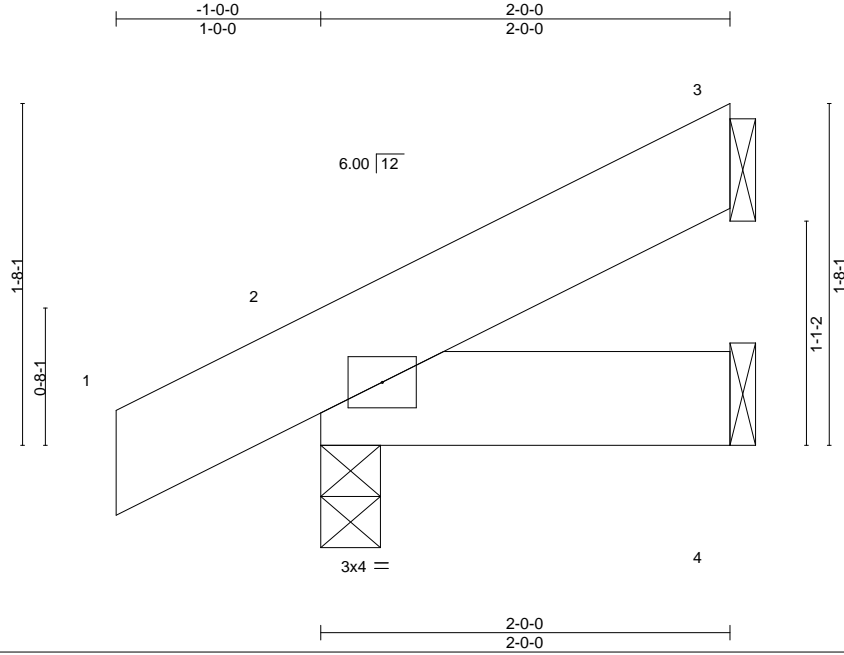
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J4	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675566
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84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:11.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=55(LC 12)
Max Uplift 3=-25(LC 12), 2=-28(LC 12)
Max Grav 3=43(LC 1), 2=155(LC 1), 4=34(LC 3)

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

NOTES-

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



November 5, 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



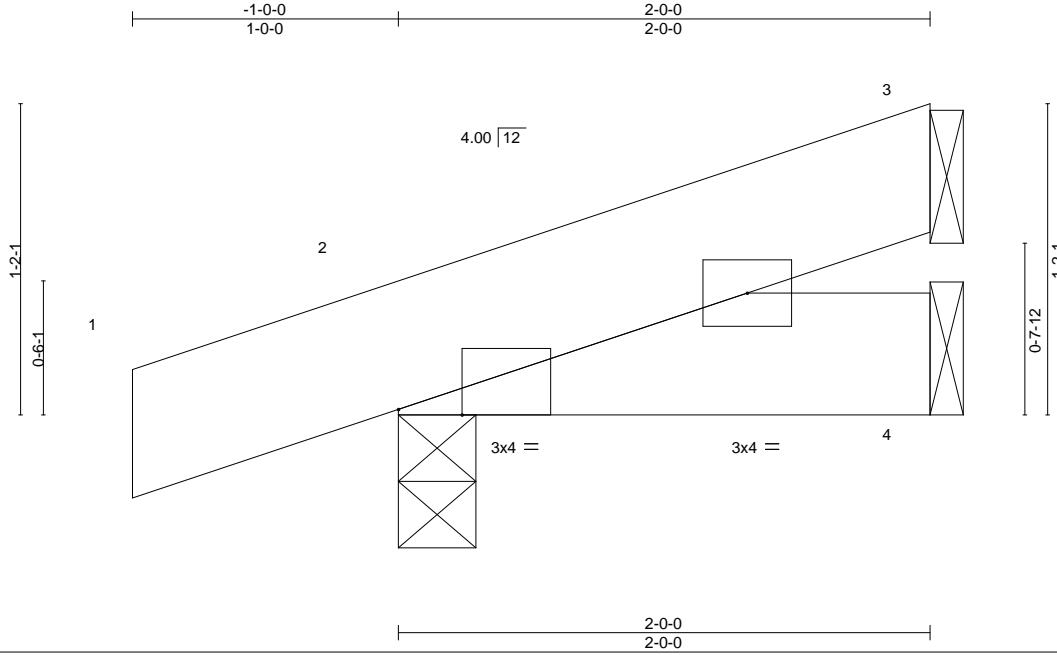
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J5	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675567
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84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:8.7

Plate Offsets (X,Y)-- [2:0-2-14,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=43(LC 8)
 Max Uplift 3=-12(LC 12), 2=-60(LC 8), 4=-1(LC 12)
 Max Grav 3=39(LC 1), 2=155(LC 1), 4=29(LC 3)

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

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

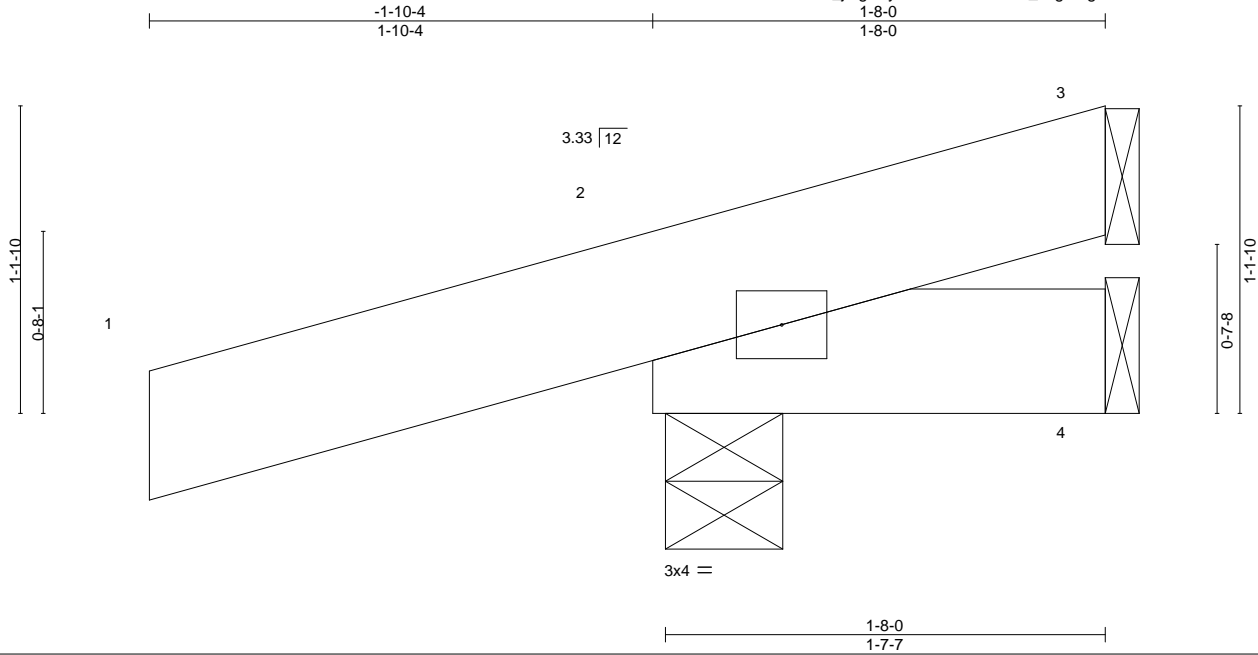


November 5, 2021

Job 29043-29043A	Truss J6	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675568
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:28 2021 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(oc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-3, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 3=-5(LC 12), 2=-123(LC 8), 4=-10(LC 1)
Max Grav 3=14(LC 1), 2=240(LC 1), 4=23(LC 8)

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

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



November 5, 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

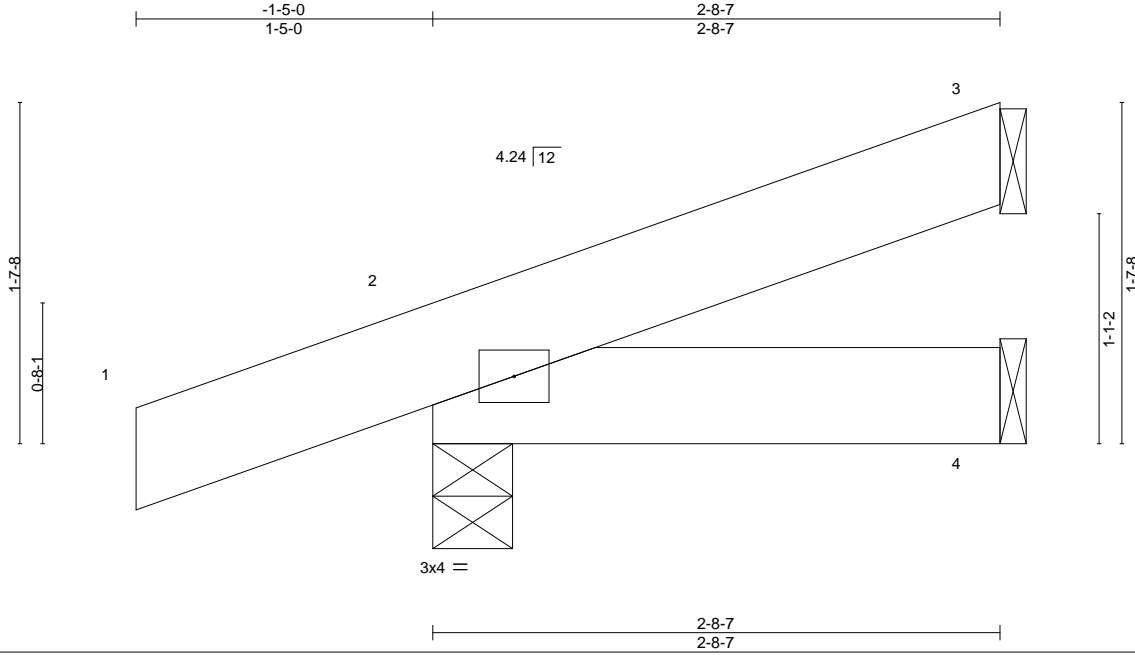


818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J7	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675569
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:29 2021 Page 1
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Scale = 1:11.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 3 n/a n/a	Weight: 17 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=62(LC 8)
Max Uplift 3=-27(LC 12), 2=-82(LC 8)
Max Grav 3=57(LC 1), 2=213(LC 1), 4=44(LC 3)

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

NOTES-

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



November 5, 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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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

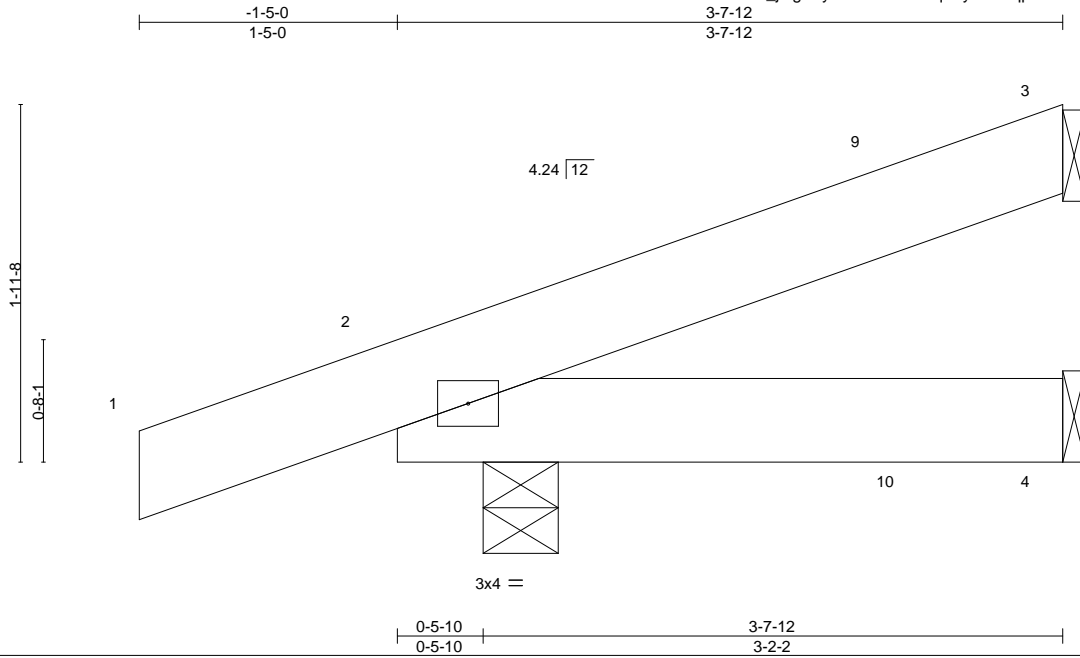


818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J8	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180	148675570
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84 Components, Dunn, NC 28334

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-OuX4eqxSyk08taqpSWA667L9KBTu54qu3B2ToPyMTR?
8.510 s Jun 1 2021 MiTek Industries, Inc. Fri Nov 5 08:15:42 2021 Page 1



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=62/Mechanical, 2=301/0-4-15, 4=5/Mechanical
Max Horz 2=75(LC 8)
Max Uplift 3=-37(LC 12), 2=-101(LC 8)
Max Grav 3=62(LC 1), 2=301(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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; 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 37 lb uplift at joint 3.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 48 lb up at 2-9-8, and 14 lb down and 56 lb up at 2-9-8 on top chord, and 8 lb down and 9 lb up at 2-9-8, and 7 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 10=3(F=6, B=-3)



November 5, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

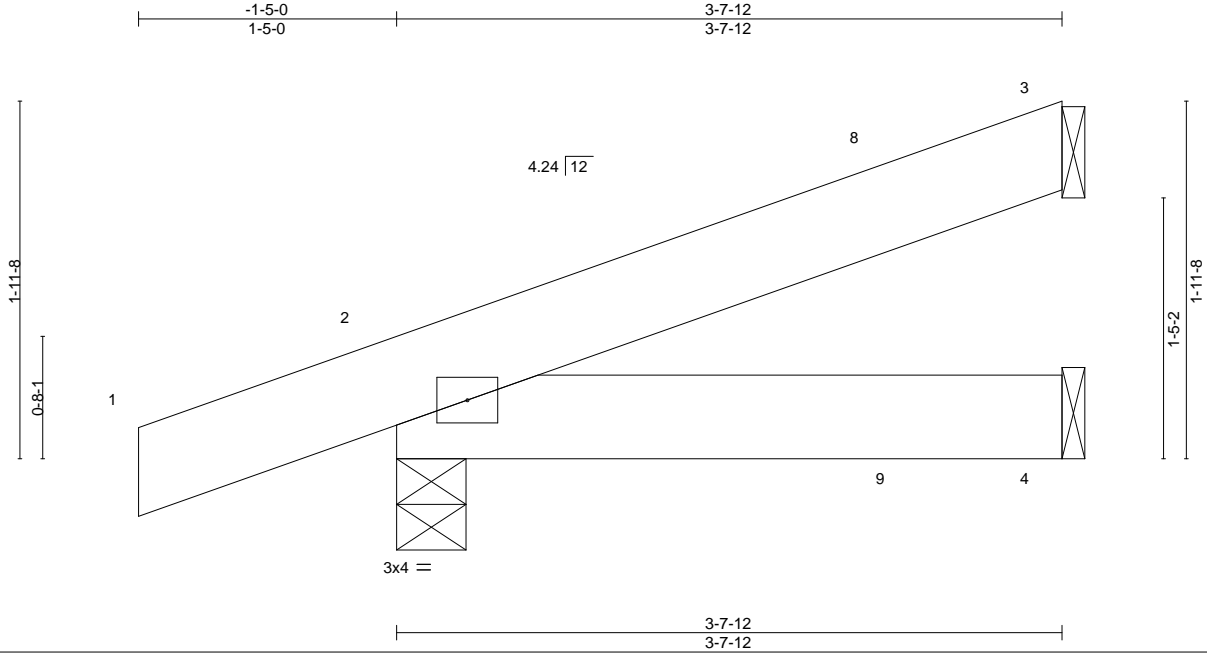


818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J9	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675571
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:30 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRk-3WMJ6EQJWU?N0NqgQbp5k_OZh503xJhcqLBaBNyMZpx



Scale = 1:12.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
 Max Horz 2=75(LC 8)
 Max Uplift 3=-40(LC 12), 2=-82(LC 8)
 Max Grav 3=86(LC 1), 2=246(LC 1), 4=63(LC 3)

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

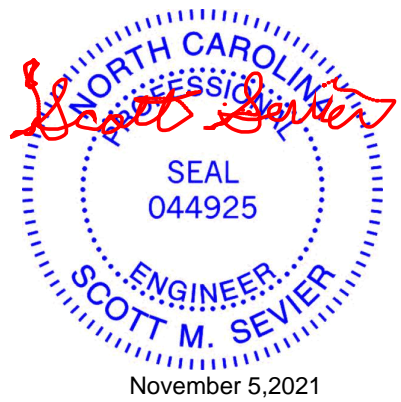
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 14 lb down and 56 lb up at 2-9-8, and 14 lb down and 56 lb up at 2-9-8 on top chord, and 7 lb down at 2-9-8, and 7 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-20

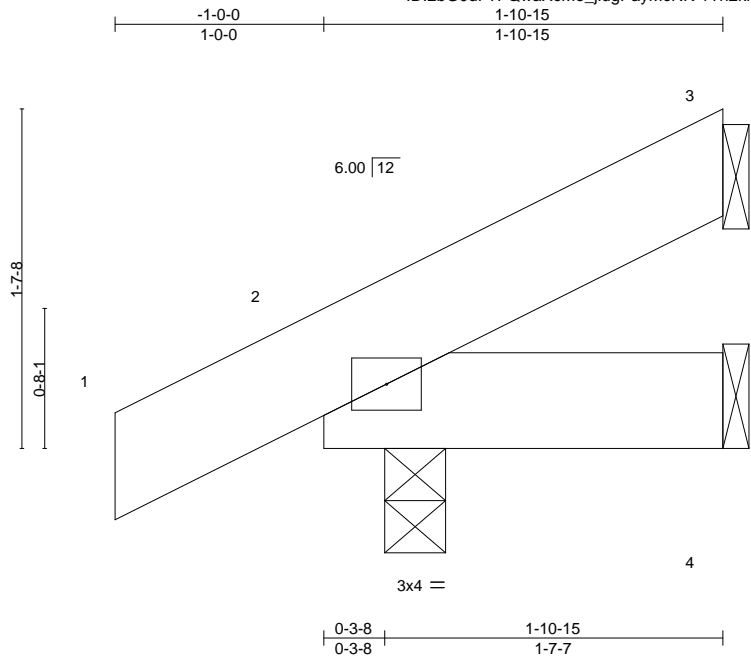
Concentrated Loads (lb)
 Vert: 9=-6(F=-3, B=-3)



Job 29043-29043A	Truss J10	Truss Type Jack-Open	Qty 3	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675572
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84 Components, Dunn, NC 28334

8.510 s Jun 1 2021 MiTek Industries, Inc. Fri Nov 5 08:16:11 2021 Page 1
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Scale = 1:11.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=41/Mechanical, 4=20/Mechanical, 2=152/0-3-8
Max Horz 2=53(LC 12)
Max Uplift 3=-23(LC 12), 2=-28(LC 12)
Max Grav 3=41(LC 1), 4=32(LC 3), 2=152(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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; 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 23 lb uplift at joint 3.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 5, 2021

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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

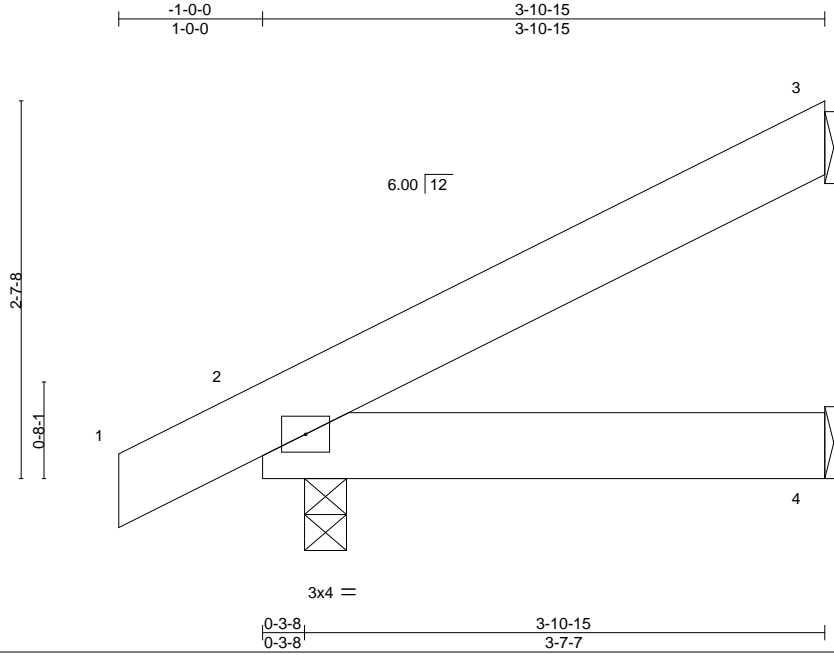


818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J11	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675573
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:17 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-y04ONoG9aUMEyOKA9M42iELKtsazPQThrqYOFdyMZq8



Scale: 3/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL) -0.00 4-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT) -0.00 4-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) 0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=91(LC 12)
Max Uplift 3=53(LC 12), 2=33(LC 12)
Max Grav 3=89(LC 1), 2=240(LC 1), 4=64(LC 3)

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

NOTES-

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



November 5, 2021

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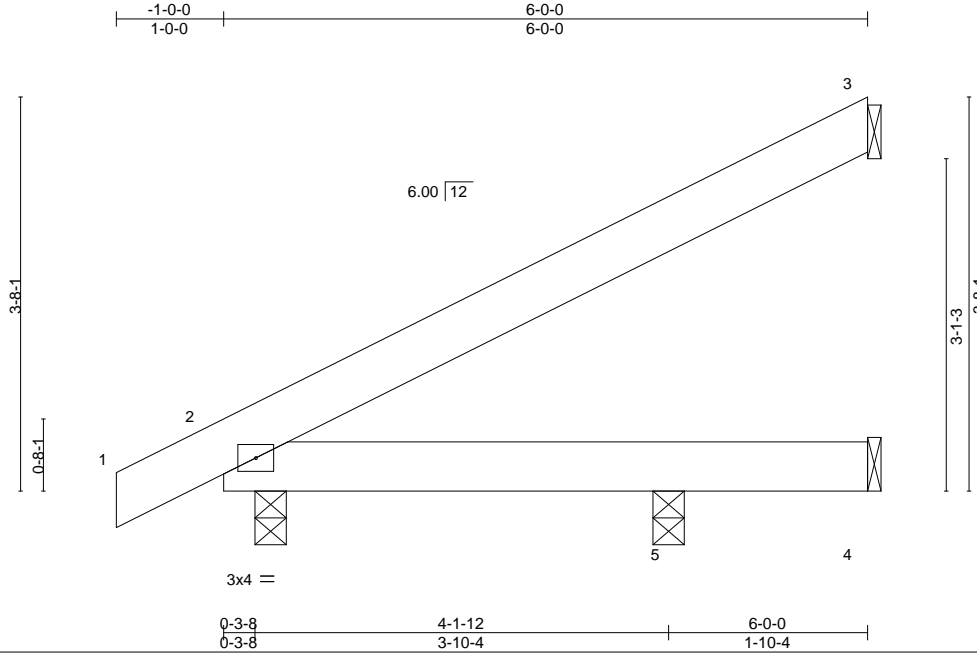
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J12	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675574
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:17 2021 Page 1

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Scale = 1:21.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL) 0.01	5-10	>999	240		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT) -0.01	5-10	>999	180			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						Weight: 33 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 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 Mechanical except (jt=length) 2=0-3-8, 5=0-3-8.
(lb) - Max Horz 2=131(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 3, 2, 4, 5
Max Grav All reactions 250 lb or less at joint(s) 3, 4, 5 except 2=271(LC 1)

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

NOTES-

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



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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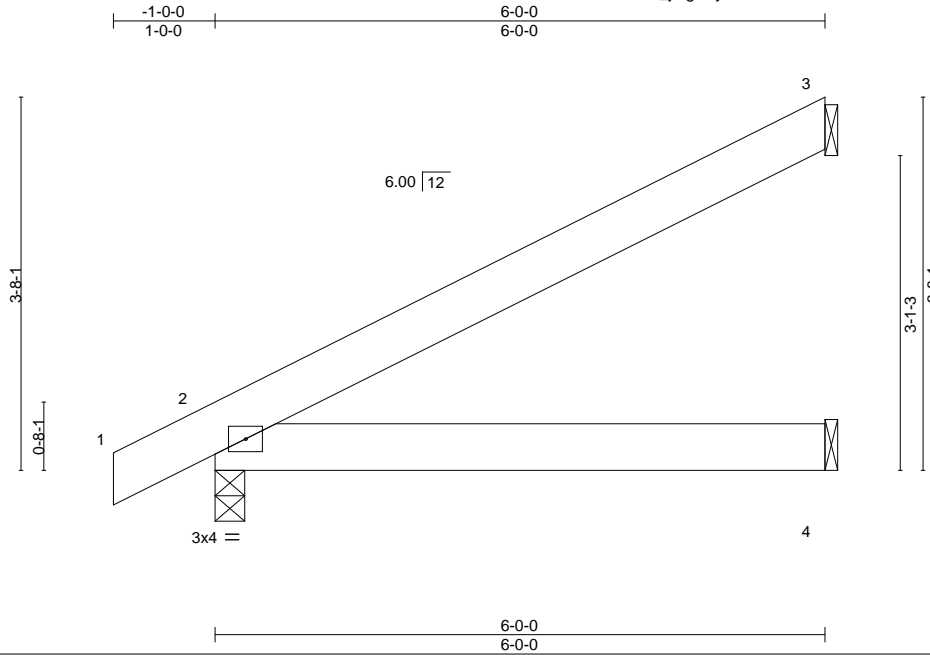
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J14	Truss Type Jack-Open	Qty 14	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675575
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:18 2021 Page 1

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Scale = 1:22.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 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.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=131(LC 12)
Max Uplift 3=-86(LC 12), 2=-34(LC 12)
Max Grav 3=155(LC 1), 2=303(LC 1), 4=110(LC 3)

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

NOTES-

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



November 5, 2021

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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



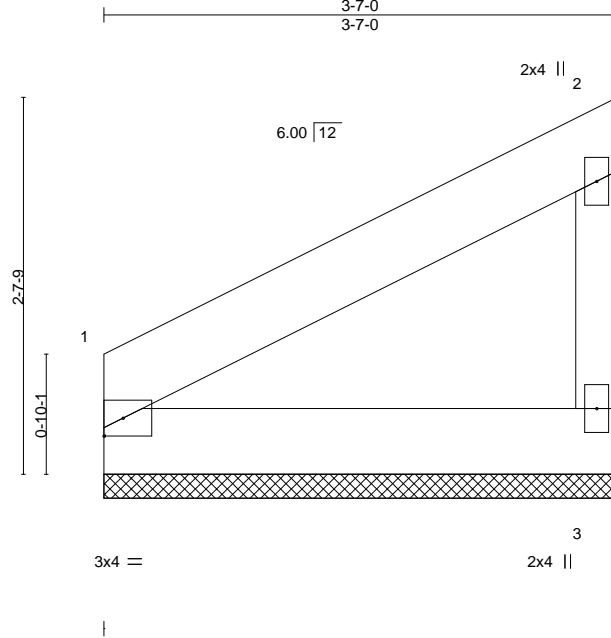
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J15	Truss Type Jack-Open Supported Gable	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675576
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:19 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-uPC9oUIP65cxBhUYGn6WnfQgzfFJtKy_I81VJWyzMZq6



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 1=3-7-0, 3=3-7-0
Max Horz 1=80(LC 12)
Max Uplift 1=1(LC 12), 3=49(LC 12)
Max Grav 1=137(LC 1), 3=137(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 5, 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
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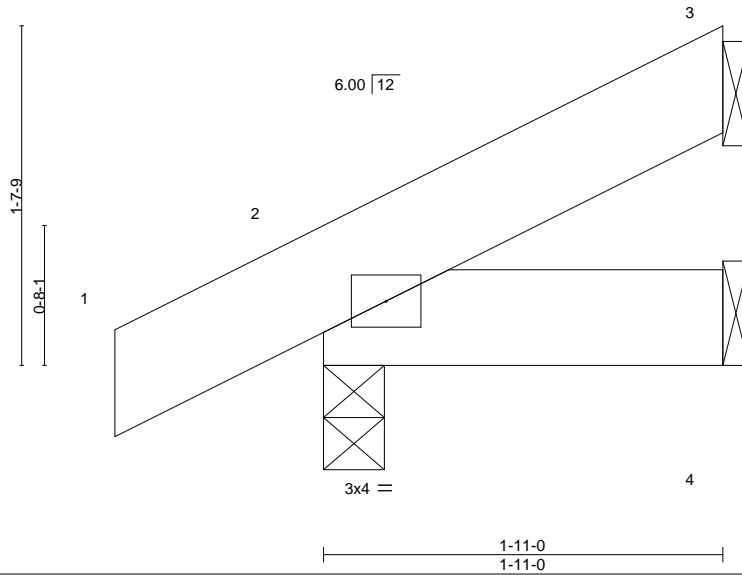
Job	Truss	Truss Type	Qty	Ply	WEST-SHERMAN 106-21-180	148675577
29043-29043A	J16	Jack-Open	4	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:19 2021 Page 1
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Scale = 1:11.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=53(LC 12)
Max Uplift 3=-23(LC 12), 2=-28(LC 12)
Max Grav 3=41(LC 1), 2=152(LC 1), 4=32(LC 3)

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

NOTES-

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



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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



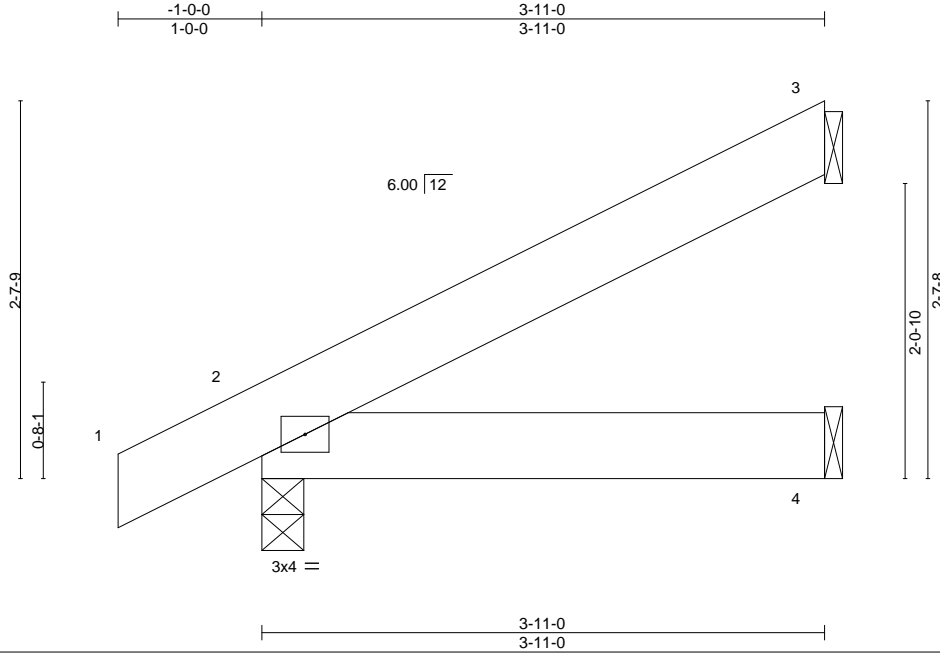
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J17	Truss Type Jack-Open	Qty 2	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675578
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:20 2021 Page 1

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Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.08	Vert(LL) -0.00	7	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP						Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=91(LC 12)
 Max Uplift 3=-54(LC 12), 2=-30(LC 12)
 Max Grav 3=97(LC 1), 2=222(LC 1), 4=70(LC 3)

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

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

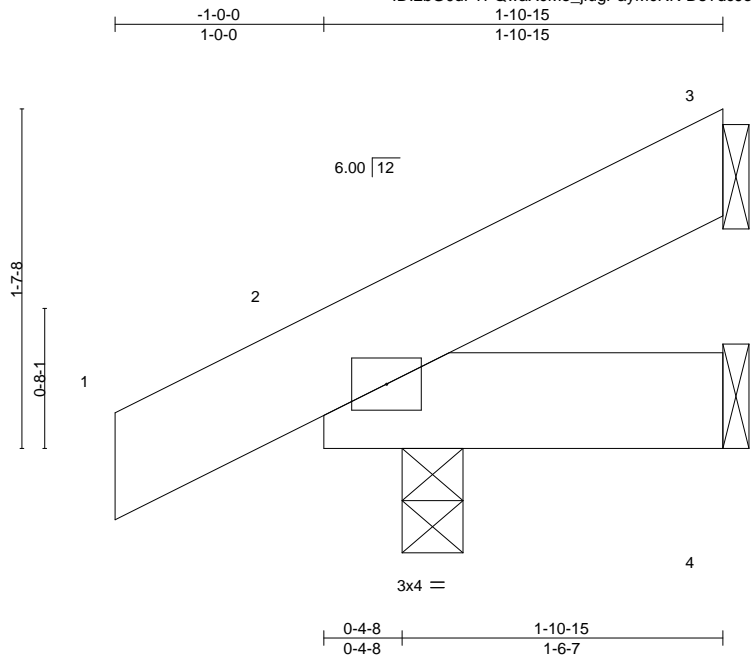


November 5, 2021

Job 29043-29043A	Truss J18	Truss Type Jack-Open	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675579
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84 Components, Dunn, NC 28334

8.510 s Jun 1 2021 MiTek Industries, Inc. Fri Nov 5 08:16:39 2021 Page 1
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Scale = 1:11.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP					Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=23/Mechanical, 4=-0/Mechanical, 2=189/0-3-8
Max Horz 2=53(LC 12)
Max Uplift 3=-20(LC 12), 2=-35(LC 12)
Max Grav 3=23(LC 1), 4=21(LC 3), 2=189(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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; 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 20 lb uplift at joint 3.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 5, 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



818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J19	Truss Type Jack-Open	Qty 6	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675580
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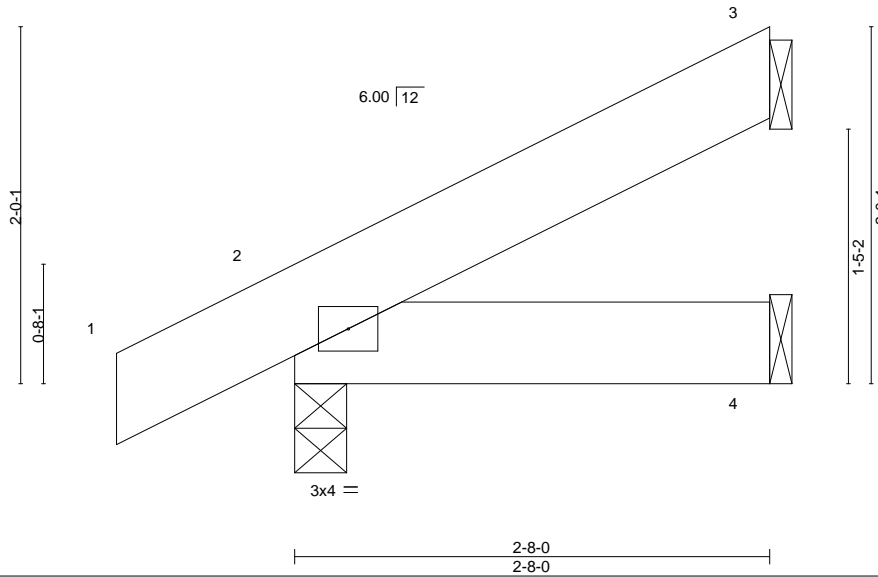
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:21 2021 Page 1

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Scale = 1:12.9



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) -0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT) -0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) 0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=67(LC 12)
Max Uplift 3=-35(LC 12), 2=-28(LC 12)
Max Grav 3=62(LC 1), 2=176(LC 1), 4=46(LC 3)

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

NOTES-

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



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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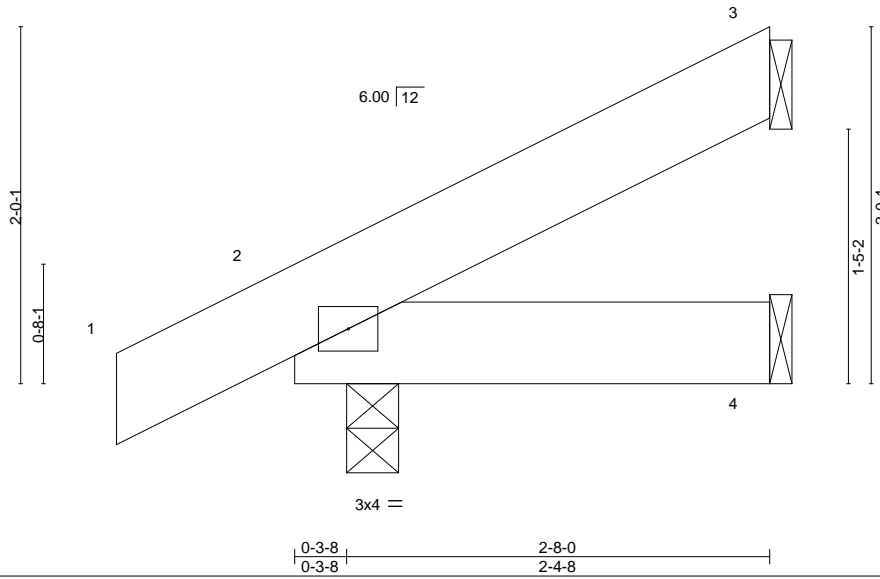
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss J21	Truss Type Jack-Open	Qty 6	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675581
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:22 2021 Page 1
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 -1-0-0 2-8-0
 1-0-0 2-8-0

Scale = 1:12.9



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) -0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT) -0.00	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) 0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

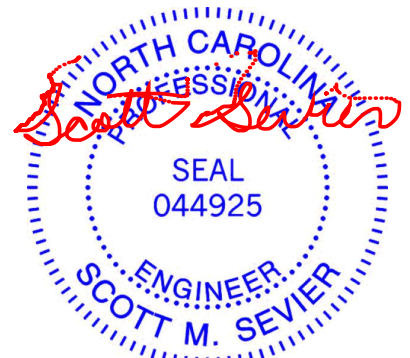
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=67(LC 12)
 Max Uplift 3=-35(LC 12), 2=-28(LC 12)
 Max Grav 3=62(LC 1), 2=176(LC 1), 4=46(LC 3)

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

NOTES-

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



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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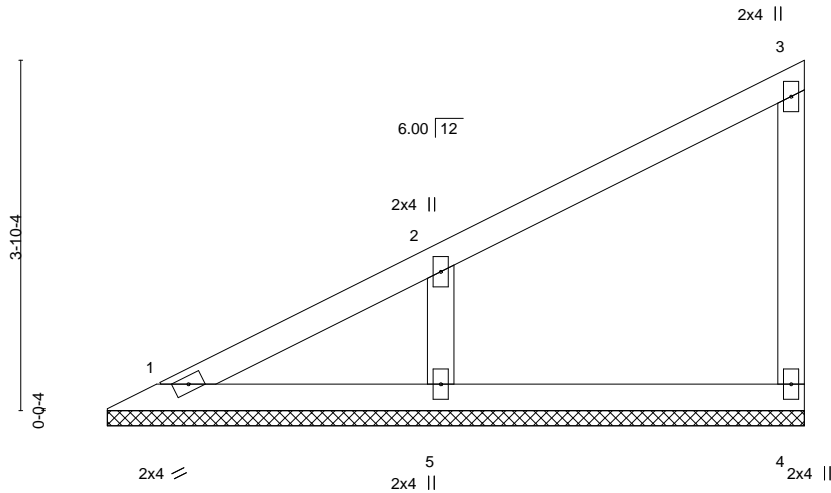
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss V1	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675582
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:30 2021 Page 1

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7-8-8
7-8-8



Scale = 1:25.3

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	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00		n/a	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
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 1=7-8-0, 4=7-8-0, 5=7-8-0
Max Horz 1=134(LC 12)
Max Uplift 4=-37(LC 12), 5=-106(LC 12)
Max Grav 1=83(LC 1), 4=122(LC 1), 5=350(LC 1)

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

WEBS 2-5=-262/241

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



November 5, 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

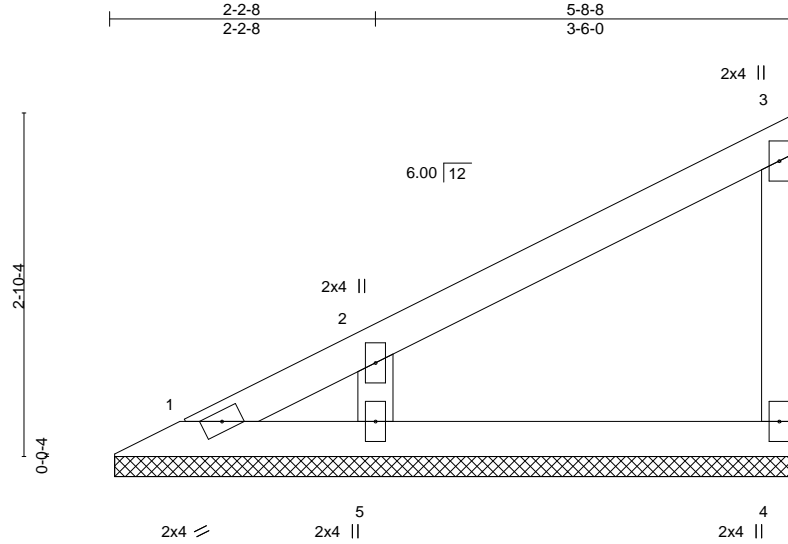


818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V2	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675583
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:33 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-U52RkGTcpPNytrYF5jMoMc01BJ?C8fT2WJQEoimZpu
5-8-8
3-6-0



Scale = 1:19.1

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 0.24	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-8-0, 4=5-8-0, 5=5-8-0
Max Horz 1=96(LC 12)
Max Uplift 4=-33(LC 12), 5=-84(LC 12)
Max Grav 1=45(LC 12), 4=109(LC 1), 5=276(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



November 5, 2021

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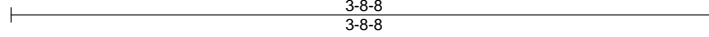
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V3	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675584
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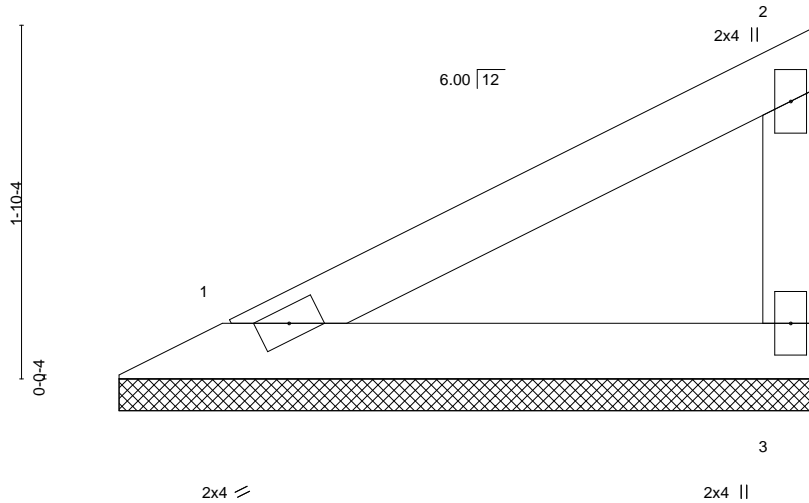
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:33 2021 Page 1

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Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=3-8-0, 3=3-8-0
 Max Horz 1=57(LC 12)
 Max Uplift 1=-7(LC 12), 3=-36(LC 12)
 Max Grav 1=117(LC 1), 3=117(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



November 5, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

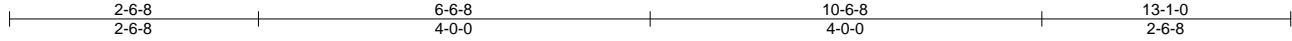


818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss V4	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675585
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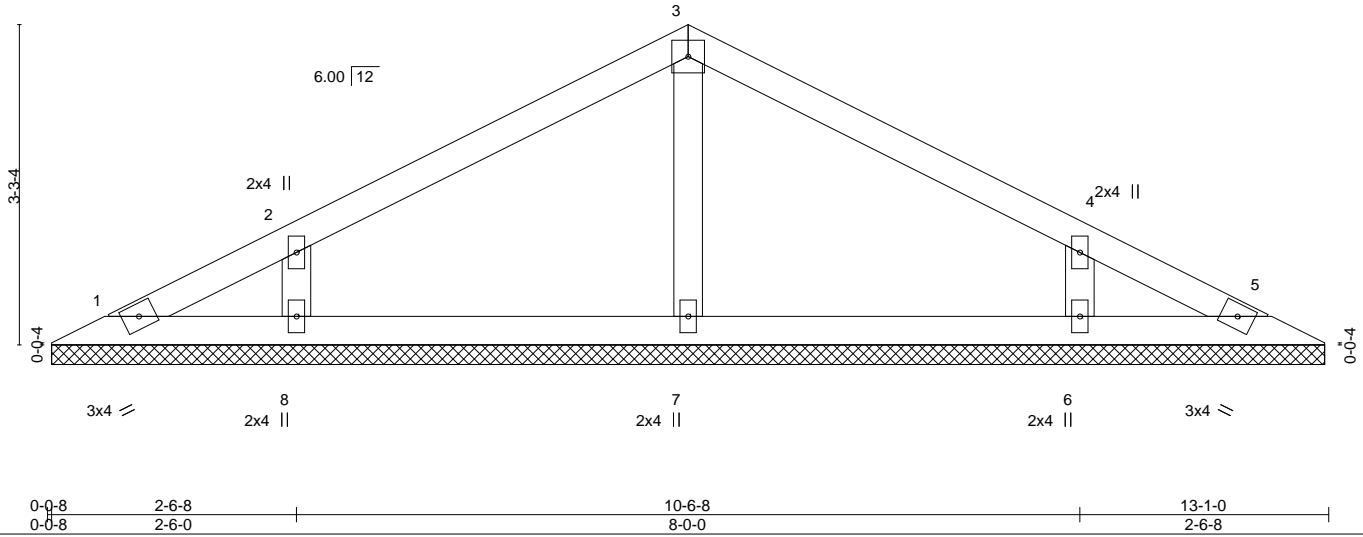
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:34 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-yHcqcUqaiVpU?7RfRu1uqYAGiMqt6oBiz9nK8yMZpt



4x4 =

Scale = 1:23.5



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 0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3
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.

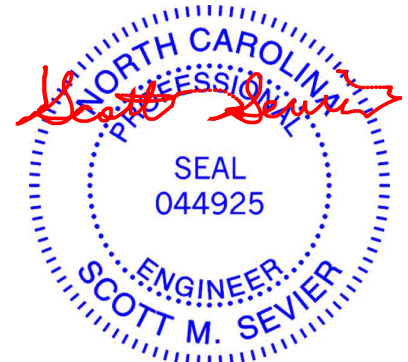
REACTIONS.

All bearings 13-0-0.
(lb) - Max Horz 1=49(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=109(LC 12), 6=109(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=261(LC 1), 8=314(LC 1), 6=314(LC 1)

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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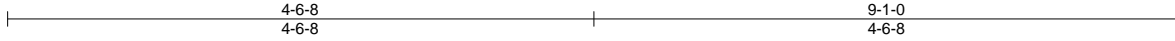
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V5	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675586
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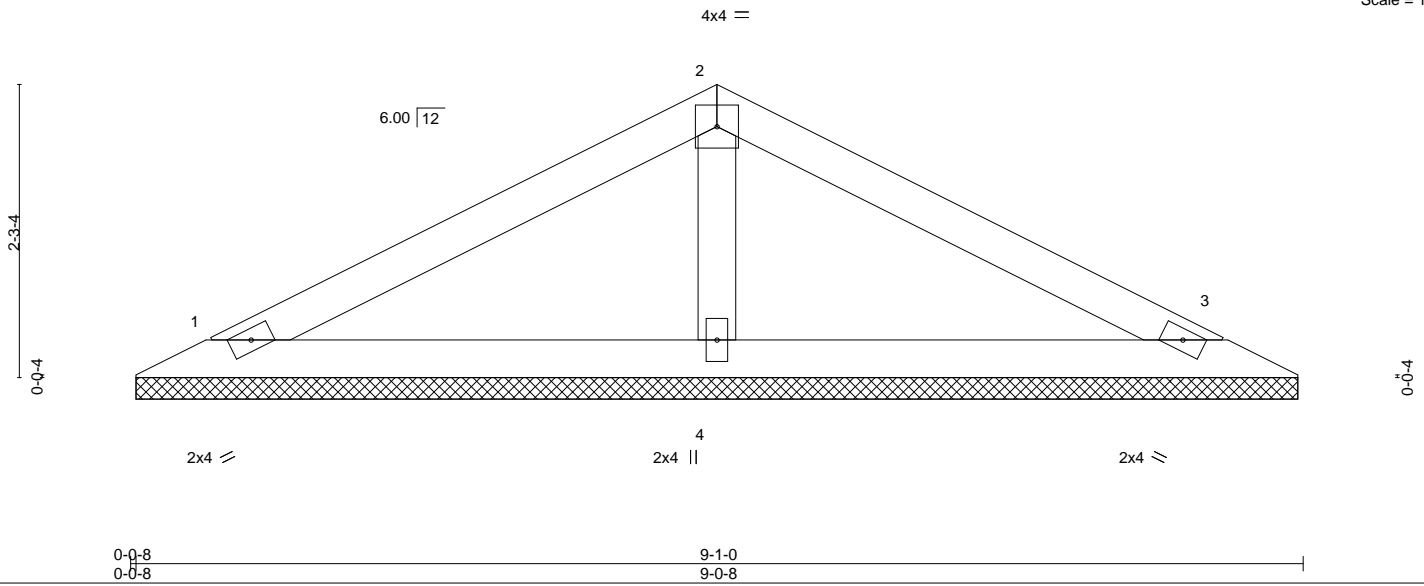
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:35 2021 Page 1

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Scale = 1:17.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.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.

(size) 1=9-0-0, 3=9-0-0, 4=9-0-0
 Max Horz 1=-33(LC 13)
 Max Uplift 1=-36(LC 12), 3=-43(LC 13), 4=-1(LC 12)
 Max Grav 1=158(LC 1), 3=158(LC 1), 4=310(LC 1)

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



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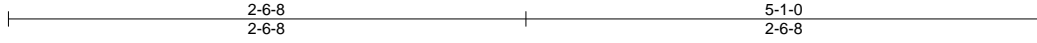


818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss V6	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675587
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:36 2021 Page 1
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3x4 =

Scale = 1:11.3

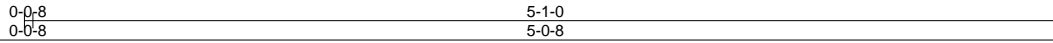
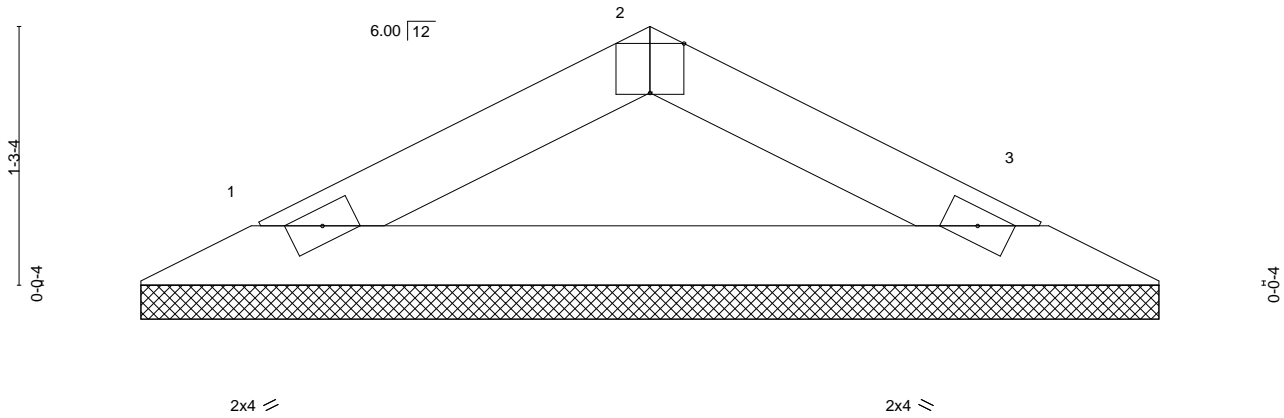


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.10	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.31	Vert(CT) n/a	-	n/a	999			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-0-0, 3=5-0-0
Max Horz 1=16(LC 12)
Max Uplift 1=18(LC 12), 3=18(LC 13)
Max Grav 1=153(LC 1), 3=153(LC 1)

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; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



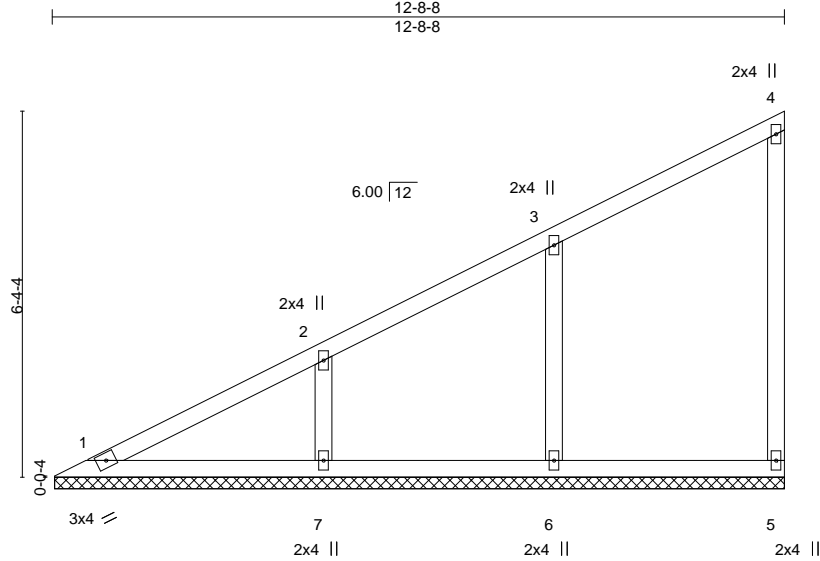
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V7	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675588
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:36 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-ugjaMIV46JIXklHqmswVzFeYaW1EL?mUCHeuP1yMZpr



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 56 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 12-8-0.
 (lb) - Max Horz 1=231(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=104(LC 12), 7=110(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=374(LC 2), 7=359(LC 1)

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

TOP CHORD 1-2=-277/117
 WEBS 3-6=-256/199, 2-7=-270/210

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



November 5, 2021

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



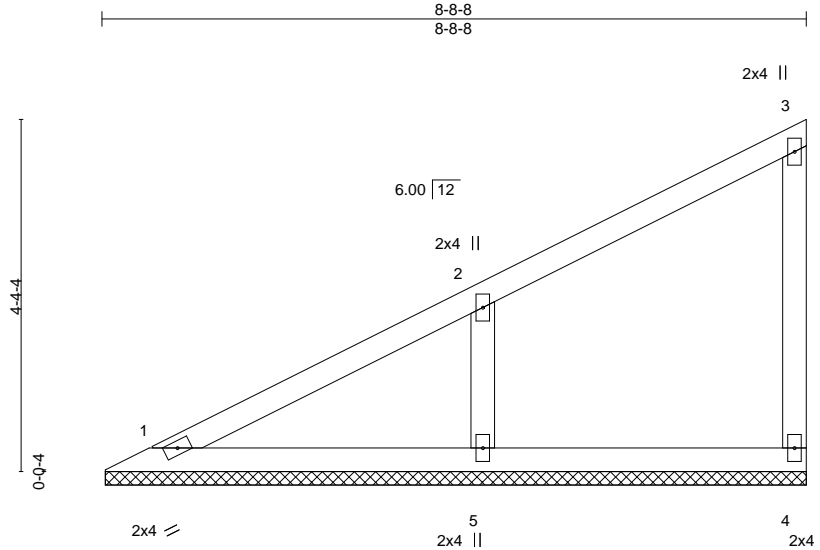
818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss V9	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675590
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:38 2021 Page 1

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Scale = 1:28.5

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 0.44	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-8-0, 4=8-8-0, 5=8-8-0
 Max Horz 1=154(LC 12)
 Max Uplift 4=-35(LC 12), 5=-121(LC 12)
 Max Grav 1=125(LC 1), 4=113(LC 1), 5=397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-297/263

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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



November 5, 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

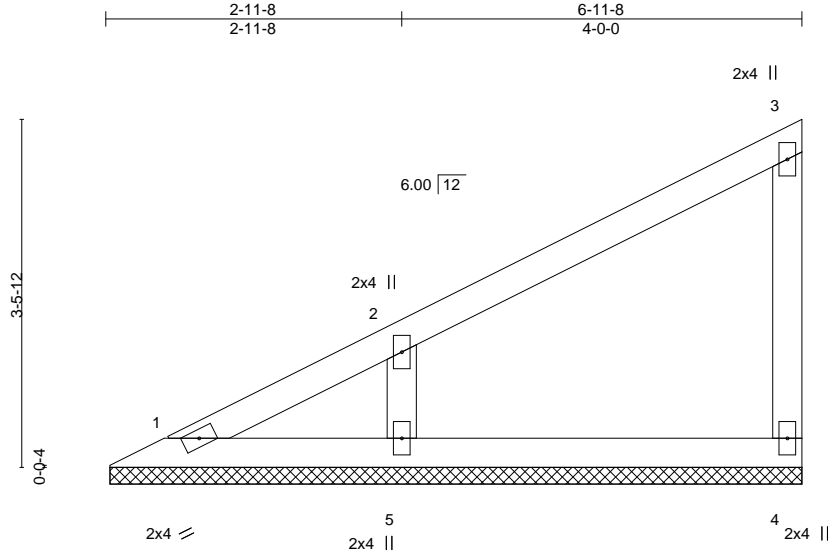


818 Soundside Road
 Edenton, NC 27932

Job 29043-29043A	Truss V10	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675591
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:31 2021 Page 1
ID:2bG0dF?FQwaXcMo_jiugPayMcRK-YjwhJaRxHn7EdXPszIKKHBwgrVlwgltl3?x7jpyMZpw



Scale = 1:23.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=6-11-0, 4=6-11-0, 5=6-11-0
Max Horz 1=120(LC 12)
Max Uplift 4=-38(LC 12), 5=-99(LC 12)
Max Grav 1=57(LC 21), 4=125(LC 1), 5=325(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



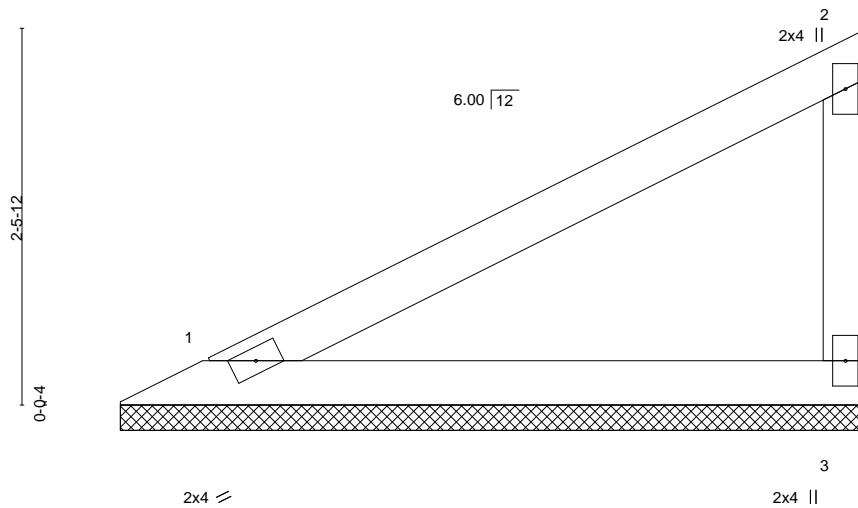
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V11	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675592
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:32 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-0vU3XwSZ25F5Fhz2X0rZpPTnEvcgPDAvHfghGFyMZpv
4-11-8
4-11-8



Scale = 1:15.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-11-0, 3=4-11-0
Max Horz 1=81(LC 12)
Max Uplift 1=10(LC 12), 3=-51(LC 12)
Max Grav 1=167(LC 1), 3=167(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



November 5, 2021

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ENGINEERING BY
TRENCO
A MiTek Affiliate

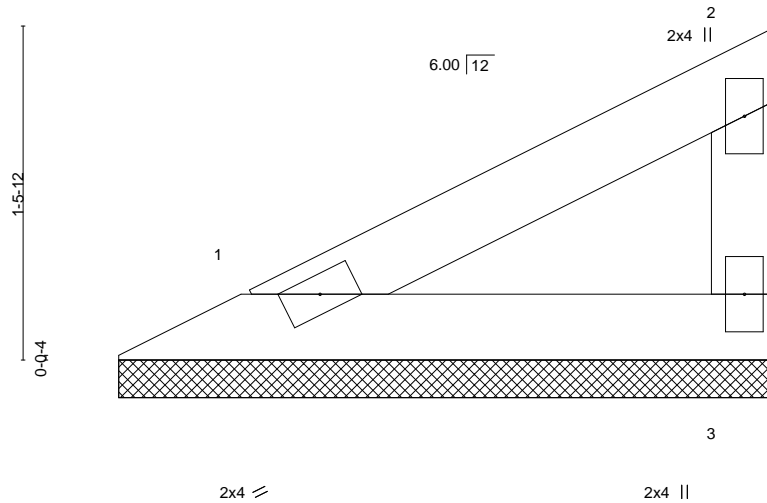
818 Soundside Road
Edenton, NC 27932

Job 29043-29043A	Truss V12	Truss Type Valley	Qty 1	Ply 1	WEST-SHERMAN 106-21-180 Job Reference (optional)	148675593
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Nov 4 12:59:32 2021 Page 1

ID:2bG0dF?FQwaXcMo_jiugPayMcRK-0vU3XwSZ25F5Fhz2X0rZpPTtyvpuPDAvHfghGFyMZpv
2-11-8
2-11-8



Scale = 1:10.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-11-0, 3=2-11-0
Max Horz 1=42(LC 12)
Max Uplift 1=5(LC 12), 3=-27(LC 12)
Max Grav 1=87(LC 1), 3=87(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



November 5, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

ENGINEERING BY
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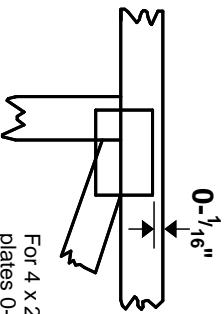
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

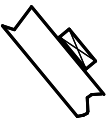
* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

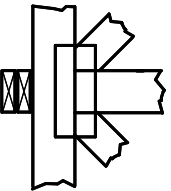
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



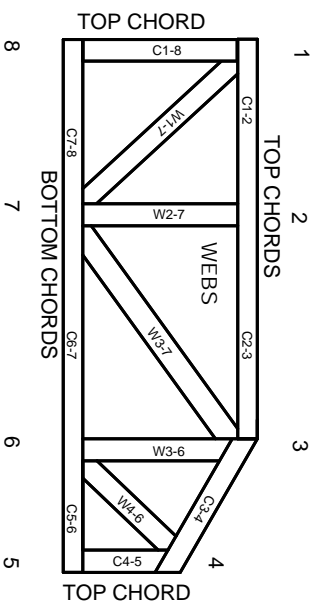
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.