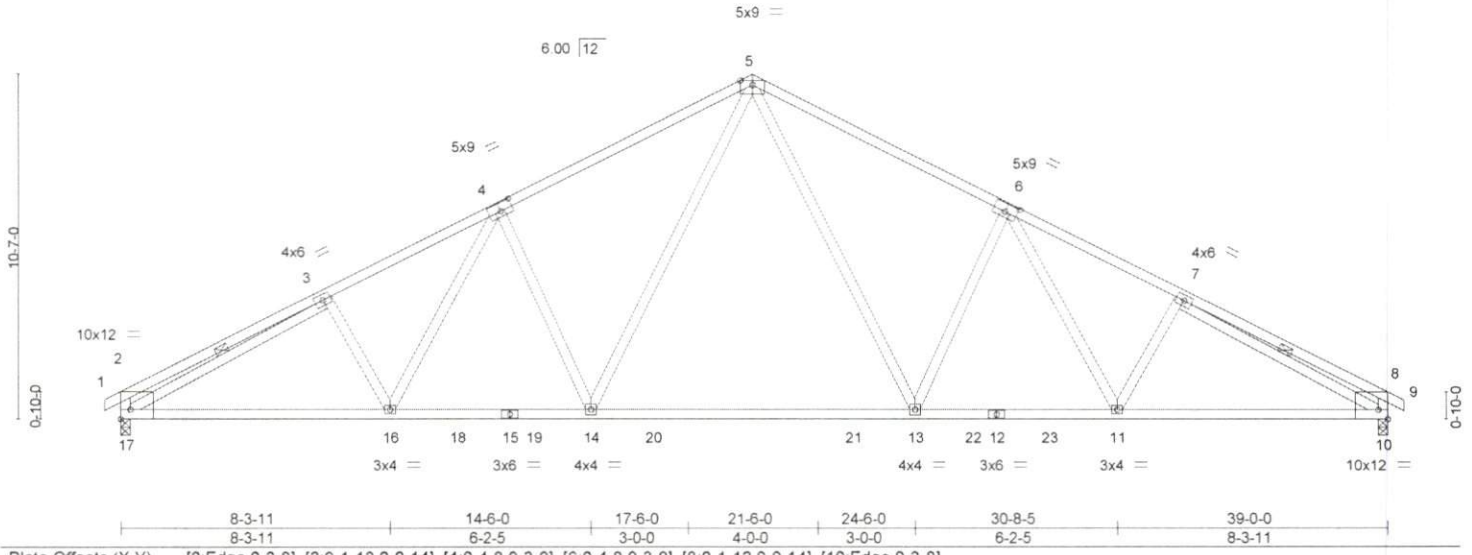


Job 18030341-MASTER	Truss T1	Truss Type COMMON	Qty 13	Ply 1	Cali NP Vault Master	139464279
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84 Components (Dunn), Dunn, NC - 28334.

8.320 s Nov 19 2019 MITEK Industries, Inc. Mon Dec 2 14 54:39 2019 Page 1
 ID: 2okNGRrr7KSPRIXgb91IA7y8hTY-IsOVcqv2Lc9YnyXJVBEzoIVU6wDV1WhqCpbmONyCzXk
 27-3-7 7-9-7 32-7-8 5-4-1 39-0-0 6-4-8 39-6-0 0-6-0

Scale = 1:68.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.94	Vert(LL)	-0.37 13-14	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(CT)	-0.69 13-14	>675	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Horz(CT)	0.12 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS						
	Code IRC2015/TPI2014						Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 12-15: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-17, 7-10

REACTIONS. (lb/size) 17=1587/0-3-8, 10=1587/0-3-8
 Max Horz 17=126(LC 12)
 Max Uplift 17=-95(LC 12), 10=-95(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-820/199, 3-4=-2450/468, 4-5=-2174/485, 5-6=-2174/485, 6-7=-2450/468,
 7-8=-820/199, 2-17=-575/185, 8-10=-575/185
 BOT CHORD 16-17=-307/2189, 14-16=-219/2047, 13-14=-70/1508, 11-13=-219/2047, 10-11=-306/2189
 WEBS 5-13=-125/842, 6-13=-563/234, 6-11=-43/284, 5-14=-125/842, 4-14=-563/234,
 4-16=-43/284, 3-17=-1829/257, 7-10=-1829/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



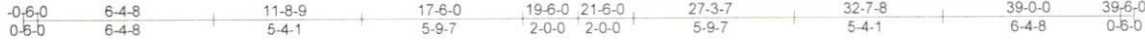
December 2, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

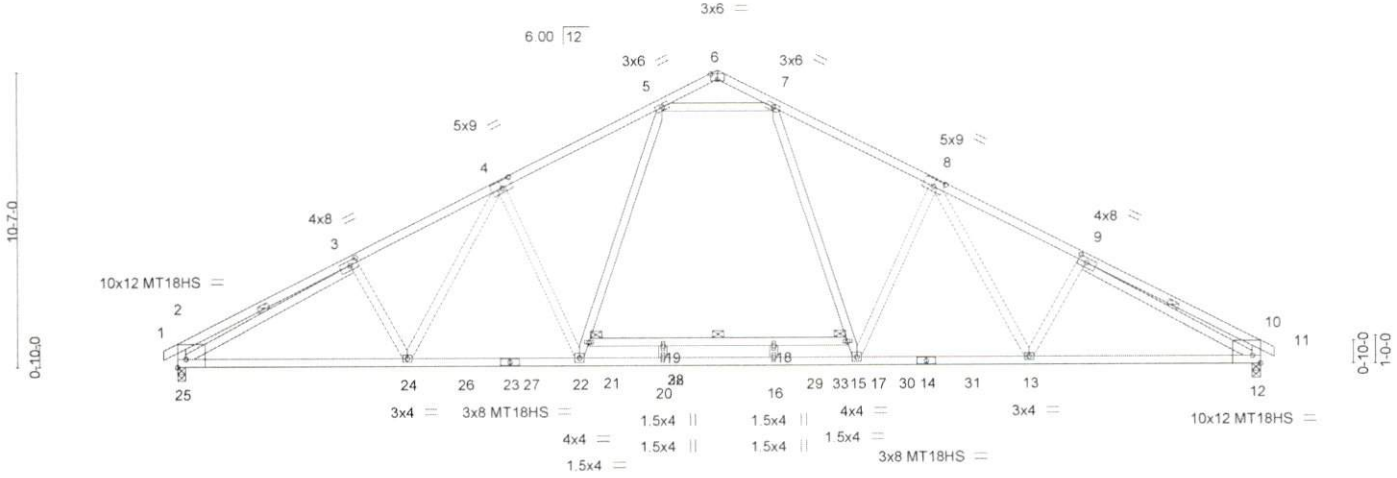
ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	139464280
18030341-MASTER	T1A	ROOF TRUSS	6	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8 320 s Nov 19 2019 MiTek Industries, Inc Mon Dec 2 14 54 41 2019 Page 1
 ID 2okNGRrr?KSPRIxgb91IA7y8hTY-FFWGDWwJIEPG0FhicHRtAbpBkrBVMS7f74tSGyCzXi



Scale = 1.79.4



8-3-11	14-6-0	17-6-0	21-6-0	24-6-0	30-8-5	39-0-0
8-3-11	6-2-5	3-0-0	4-0-0	3-0-0	6-2-5	8-3-11

Plate Offsets (X,Y)-- [2,Edge,0-3-8], [2,0-1-12,0-0-14], [3,0-3-8,0-2-0], [4,0-4-8,0-3-0], [6,0-3-0,Edge], [8,0-4-8,0-3-0], [9,0-3-8,0-2-0], [10,0-1-12,0-0-14], [12,Edge,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 0.97	Vert(LL)	-0.52	16-20	>886	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BCD 0.98	Vert(CT)	0.14	12	n/a	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.14	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 17-21: 2x4 SP No.1, 14-23: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied. Except: 6-0-0 oc bracing: 17-21
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-25, 9-12

REACTIONS. (lb/size) 25=1758/0-3-8, 12=1758/0-3-8
 Max Horz 25=126(LC 16)
 Max Grav 25=1835(LC 2), 12=1835(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-866/142, 3-4=-2994/219, 4-5=-2783/176, 7-8=-2783/176, 8-9=-2994/219,
 9-10=-866/142, 2-25=-594/155, 10-12=-594/155
 BOT CHORD 24-25=-95/2652, 22-24=0/2568, 20-22=0/2172, 16-20=0/2172, 15-16=0/2172,
 13-15=0/2568, 12-13=-93/2652
 WEBS 7-17=0/1064, 15-17=-12/908, 8-15=-552/249, 8-13=-107/257, 21-22=-12/908,
 5-21=0/1064, 4-22=-552/249, 4-24=-107/257, 3-25=-2285/66, 9-12=-2285/66,
 5-7=-2090/264

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 150.0lb AC unit load placed on the bottom chord, 19-6-0 from left end, supported at two points, 4-0-0 apart.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



December 2, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	139464281
18030341-MASTER	T1GE	GABLE	1	1		

84 Components (Dunn), Dunn, NC - 28334, 8.320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14:54:42 2019 Page 1
 ID.2okNGRrr?KSPRIXgb91IA?y8hTY-jR4ersxxdXX7ePGuAJogQO7_h7BEEsbHunpQ_uyCzXh
 0-6-0 6-4-8 11-8-9 19-6-0 27-3-7 32-7-8 39-0-0 39-6-0
 0-6-0 6-4-8 5-4-1 7-9-7 7-9-7 5-4-1 6-4-8 0-6-0

Scale = 1:71.1

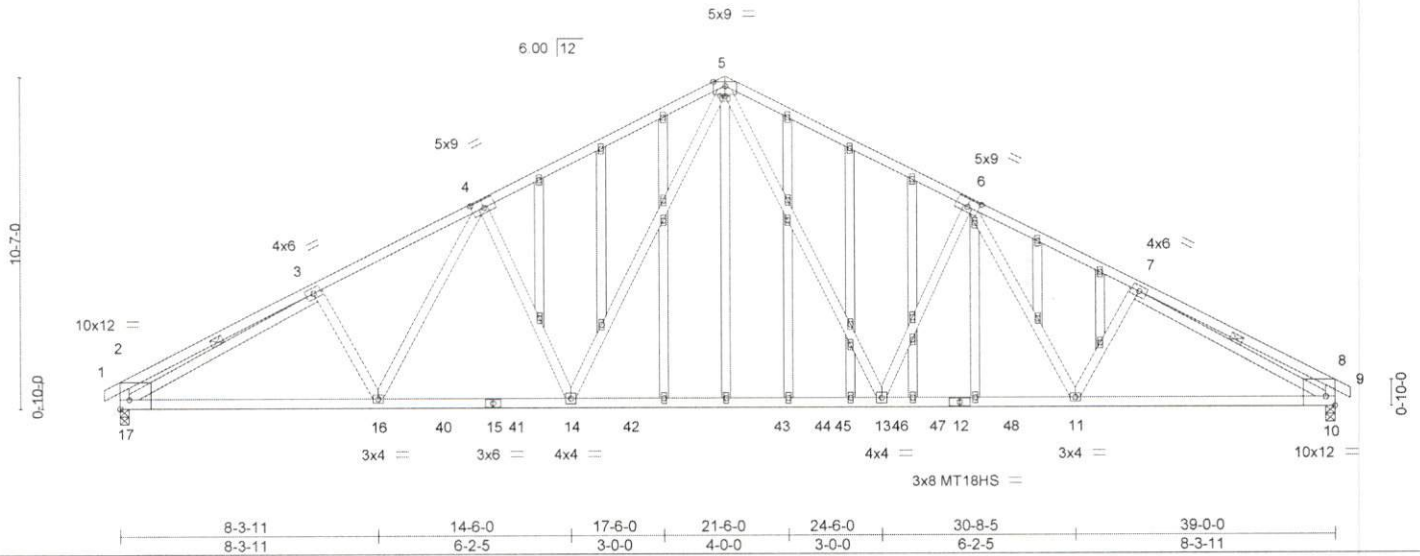


Plate Offsets (X,Y)-- [2,Edge,0-3-8], [2,0-1-12,0-0-14], [4,0-4-8,0-3-0], [5,0-2-0,0-0-0], [6,0-4-8,0-3-0], [8,0-1-12,0-0-14], [10,Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL)	-0.44 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT)	-0.83 13-14	>559	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT)	0.13 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS						
							Weight: 327 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 12-15: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-17, 7-10
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 17=1677/0-3-8, 10=1719/0-3-8
 Max Horz 17=126(LC 39)
 Max Uplift 17=141(LC 12), 10=162(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=851/215, 3-4=2610/554, 4-5=2338/583, 5-6=2416/630, 6-7=2690/595,
 7-8=866/222, 2-17=590/193, 8-10=597/196
 BOT CHORD 16-17=382/2335, 14-16=304/2188, 13-14=152/1645, 11-13=343/2255,
 10-11=415/2404
 WEBS 5-13=233/1023, 6-13=538/250, 6-11=72/255, 5-14=138/864, 4-14=546/245,
 4-16=62/262, 3-17=1947/328, 7-10=2003/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 MT20 plates unless otherwise indicated.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=141, 10=162.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 45 lb up at 21-3-4, and 74 lb down and 45 lb up at 23-2-12, and 74 lb down and 45 lb up at 25-0-12 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).

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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December 2, 2019

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	I39464281
18030341-MASTER	T1GE	GABLE	1	1	Job Reference (optional)	

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

8.320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14 54 43 2019 Page 2
 ID:2okNGRrr?KSPRIXgb91A?y8hTY-Bee02CyZOrf_FZr4k1Jvybg9RXXTzJqQ7RZzX8yCzXg

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-8=-60, 8-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 43=-74(F) 45=-74(F) 46=-74(F)

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

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818 Soundside Road
 Edenton, NC 27932

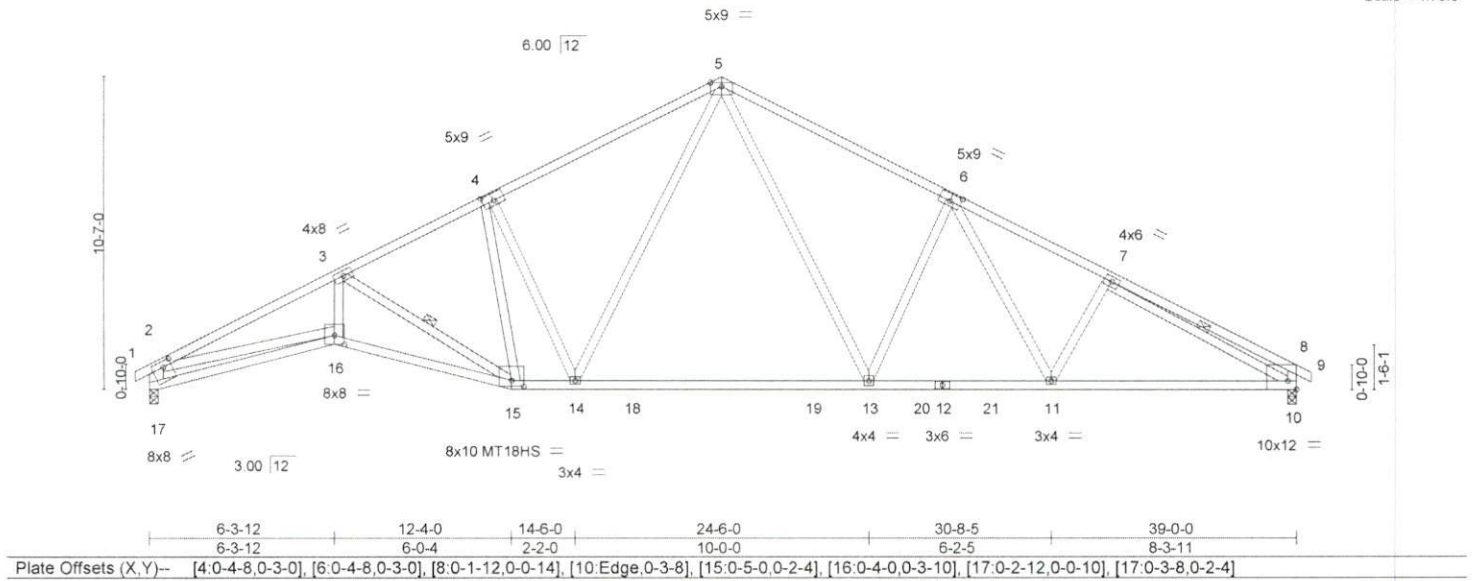
Job 18030341-MASTER	Truss T1V	Truss Type COMMON	Qty 8	Ply 1	Cali NP Vault Master	139464282
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84 Components (Dunn), Dunn, NC - 28334,

8 320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14:54:44 2019 Page 1
ID: 2okNGRrr?KSPRIXgb91IA?y8hTY-fqCOFYzB99nrjPHIkq8VpDKwxt2ikYal5IX3byCzXf

0-6-0 6-3-12 11-8-9 12-4-0 19-6-0 27-3-7 32-7-8 39-0-0 39-6-0
0-6-0 6-3-12 5-4-13 0-7-7 7-2-0 7-9-7 5-4-1 6-4-8 0-6-0

Scale = 1:75.3



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 0.94	Vert(LL)	-0.40 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.77 13-14	>604	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.22 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 12-15,10-12: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 2-17: 2x6 SP No.2, 2-16: 2x4 SP No.2	WEBS 1 Row at midpt 3-15, 7-10

REACTIONS. (lb/size) 17=1589/0-3-8, 10=1584/0-3-8
Max Horz 17=-125(LC 17)
Max Uplift 17=-96(LC 12), 10=-95(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4164/623, 3-4=-2254/441, 4-5=-2101/482, 5-6=-2123/484, 6-7=-2433/467,
7-8=-825/201, 2-17=-1680/339, 8-10=-577/186
BOT CHORD 16-17=-243/746, 15-16=-484/3645, 14-15=-219/2001, 13-14=-68/1464, 11-13=-218/2003,
10-11=-305/2184
WEBS 3-16=-120/1568, 3-15=-1828/293, 4-14=-561/239, 5-14=-121/785, 5-13=-127/840,
6-13=-563/233, 6-11=-42/285, 2-16=-309/2952, 7-10=-1783/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf, BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 2, 2019

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	139464283
18030341-MASTER	T1VGE	GABLE	1	1	Job Reference (optional)	

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

8.320 s Nov 19 2019 MITek Industries, Inc. Mon Dec 2 14:54:45 2019 Page 1
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 19-6-0 0-6-0

Scale = 1/69.6

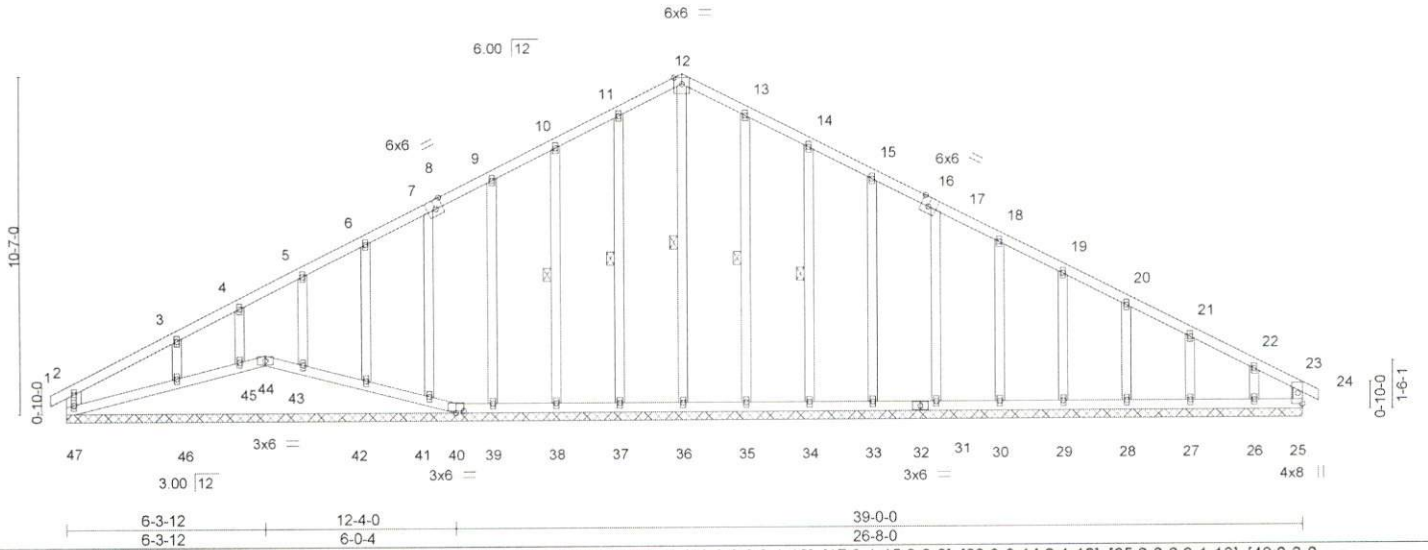


Plate Offsets (X,Y)- [7.0-1-15,0-0-0], [8.0-2-12,Edge], [8.0-0-0,0-1-12], [16.0-2-12,Edge], [16.0-0-0,0-1-12], [17.0-1-15,0-0-0], [23.0-0-14,0-1-12], [25.0-0-0,0-1-12], [40.0-3-0,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	23	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	23	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	25	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 269 lb	FT = 20%

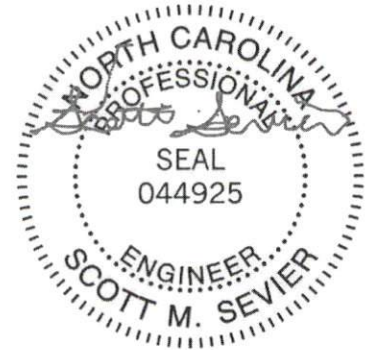
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2 *Except*
 23-25: 2x4 SP No.3
 OTHERS 2x4 SP No.3

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.
 WEBS 1 Row at midpt 12-36, 11-37, 10-38, 13-35, 14-34

REACTIONS. All bearings 39-0-0
 (lb) - Max Horz 47=-125(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 47, 44, 40, 25, 37, 38, 39, 41, 42, 43, 45, 35, 34, 33, 31, 30, 29, 28, 27, 26 except 46=-102(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 47, 44, 40, 25, 36, 37, 38, 39, 41, 42, 43, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-120/273, 11-12=-133/309, 12-13=-133/309, 13-14=-120/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 44, 40, 25, 37, 38, 39, 41, 42, 43, 45, 35, 34, 33, 31, 30, 29, 28, 27, 26 except (jt=lb) 46=102.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 44, 41, 42, 43, 45, 46.



December 2, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 18030341-MASTER	Truss T2	Truss Type Common	Qty 1	Ply 1	Cali NP Vault Master	139464284
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84 Components (Dunn), Dunn, NC - 28334,

8 320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14:54:46 2019 Page 1

ID:2okNGRrr?KSPRIXgb91IA?y8hTY-bDJ9gE_Rhm1Y61ZIP9scaElmXlcsAg?spPne7TYCzXd



Scale = 1:38.6

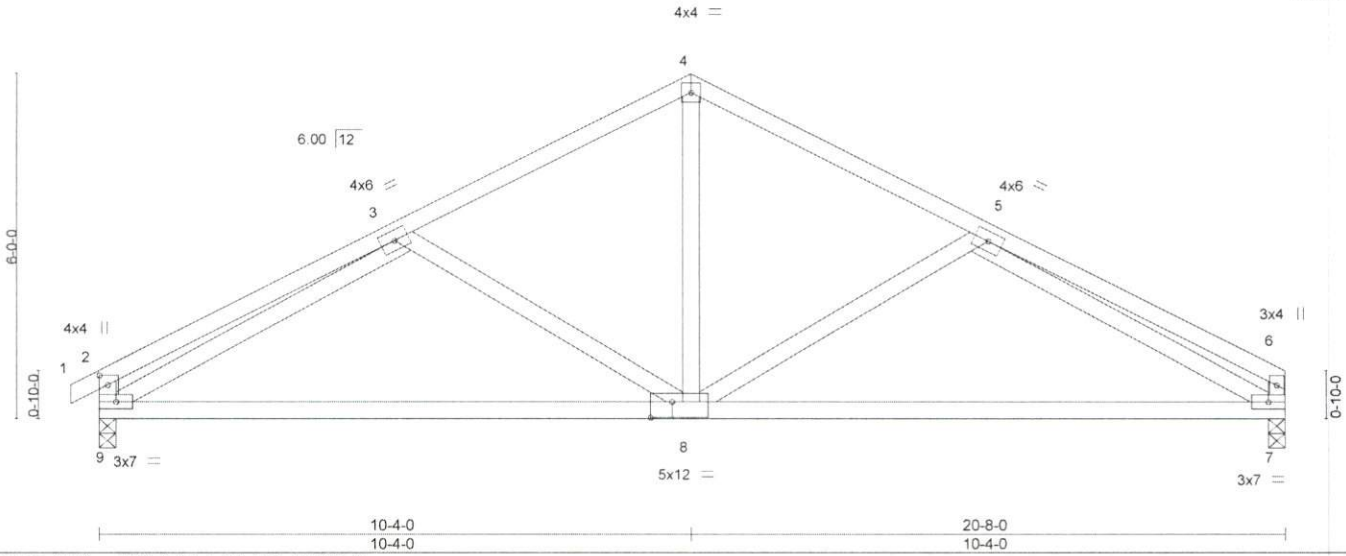


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [8:0-4-8,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.19	8-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(CT)	-0.38	8-9	>644		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 110 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=854/0-3-8, 7=814/0-3-8
 Max Horz 9=76(LC 9)
 Max Uplift 9=54(LC 12), 7=44(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-444/92, 3-4=-944/187, 4-5=-945/187, 5-6=-377/50, 2-9=-356/116, 6-7=-276/69
 BOT CHORD 8-9=-175/996, 7-8=-175/1002
 WEBS 4-8=-43/530, 5-8=-290/179, 3-8=-284/177, 3-9=-775/175, 5-7=-850/218

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10, Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.



December 2, 2019

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	139464285
18030341-MASTER	T2GE	Common	1	1	Job Reference (optional)	

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

8 320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14 54 47 2019 Page 1
ID 2okNGRrr?KSPRIxgb911A?y8hTY-3PlXuZ?4S49PKA8szOr7Rq3387MvFa023XBgvvCzXc

-0-6-0 10-4-0 20-8-0 21-2-0
0-6-0 10-4-0 10-4-0 0-6-0

Scale = 1:39.8

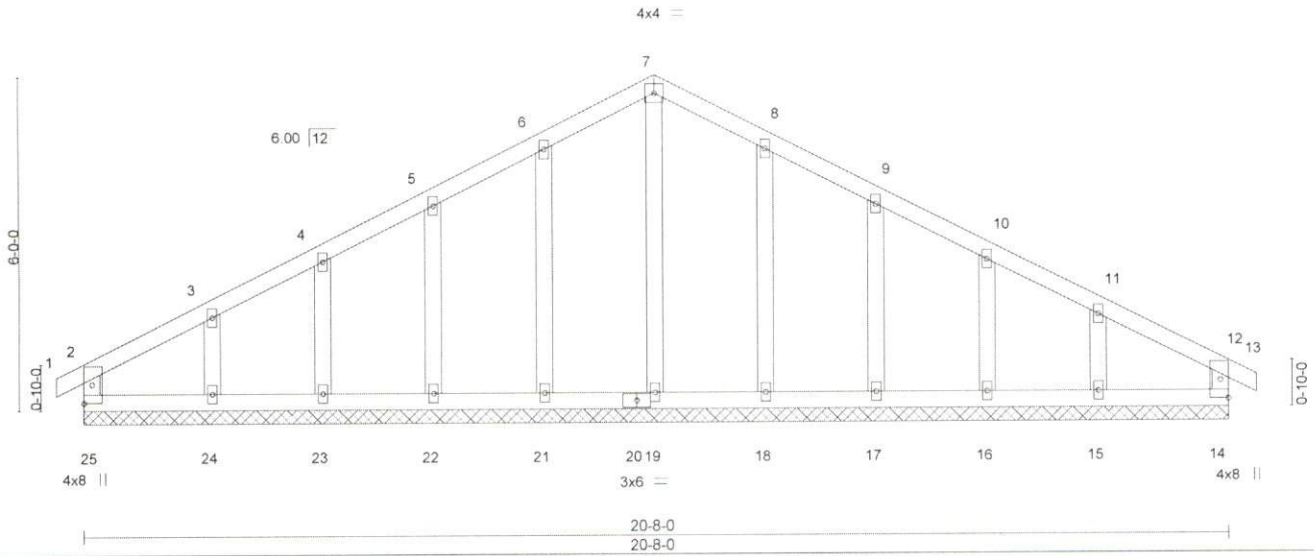


Plate Offsets (X,Y)-- [2'-0"-0-14'-0-1-12], [12'-0"-0-14'-0-1-12], [1'-4'-0-0-0-0-1-12], [2'-5'-0-0-0-0-1-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0'-0	TC 0.05	Vert(LL)	0.00 12	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00 12	n/r	90		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 111 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

- All bearings 20-8-0.
- (lb) - Max Horz 25=75(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 21, 22, 23, 24, 18, 17, 16, 15
- Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 21, 22, 23, 24, 18, 17, 16, 15

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0'-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0 tall by 2'-0'-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22, 23, 24, 18, 17, 16, 15.

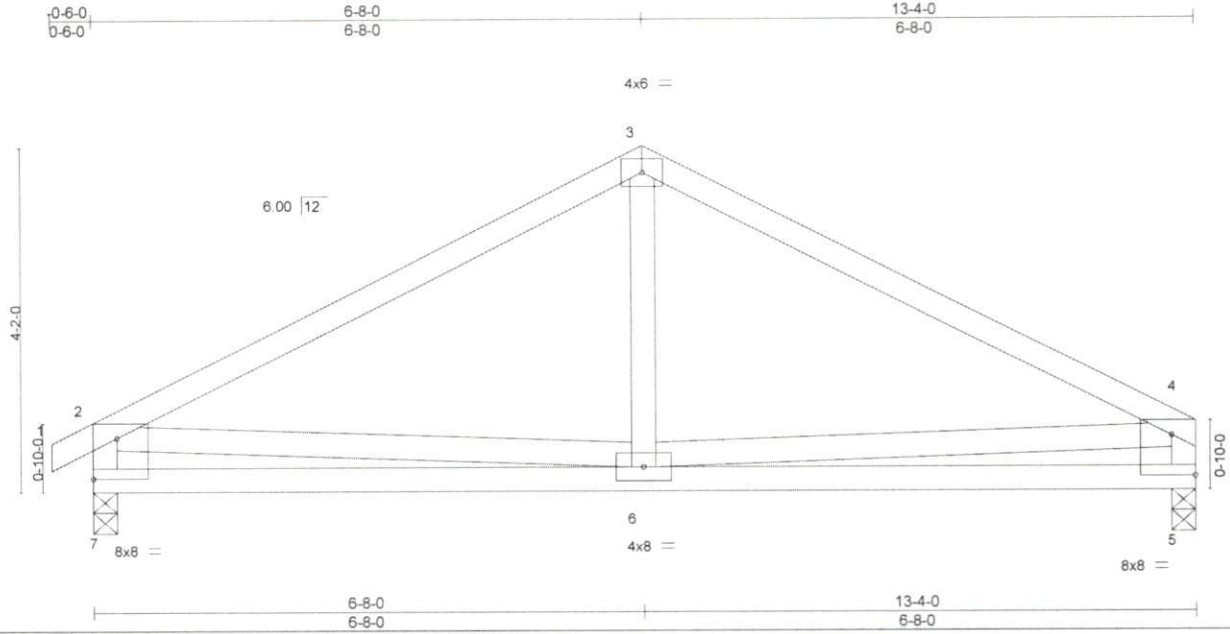


December 2, 2019

Job	Truss	Truss Type	Qty	Ply	Call NP Vault Master	139464286
18030341-MASTER	T3	Common	1	1	Job Reference (optional)	

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

8:320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14:54:48 2019 Page 1
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Scale = 1:26.8

Plate Offsets (X,Y)-- [5:Edge,0-5-13], [5:0-1-12,0-0-0], [7:0-1-12,0-0-0], [7:Edge,0-5-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	Vert(LL)	-0.04	6-7	>999	MT20	244/190
BCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(CT)	-0.08	6-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.01	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TP12014						Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 7=561/0-3-8, 5=521/0-3-8
 Max Horz 7=57(LC 11)
 Max Uplift 7=-38(LC 12), 5=-28(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-646/135, 3-4=-641/132, 2-7=-504/165, 4-5=-463/135
 BOT CHORD 6-7=-192/415, 5-6=-103/291
 WEBS 3-6=0/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



December 2, 2019

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cali NP Vault Master	139464287
18030341-MASTER	T3GE	Common	1	1	Job Reference (optional)	

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

8 320 s Nov 19 2019 MiTek Industries, Inc. Mon Dec 2 14 54 49 2019 Page 1

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Scale = 1/26.6

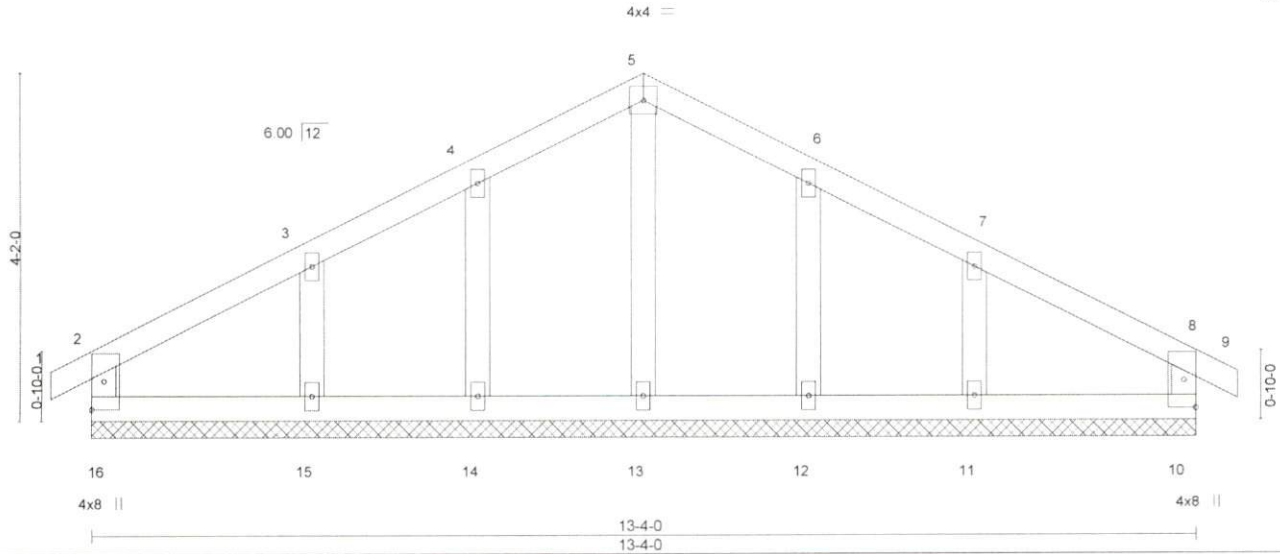


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [8:0-0-14,0-1-12], [10:0-0-0,0-1-12], [16:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	9	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. All bearings 13-4-0.
 (lb) - Max Horz 16=56(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10, Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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.
 - 10) All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



December 2, 2019

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

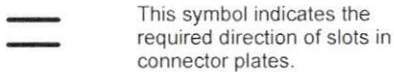
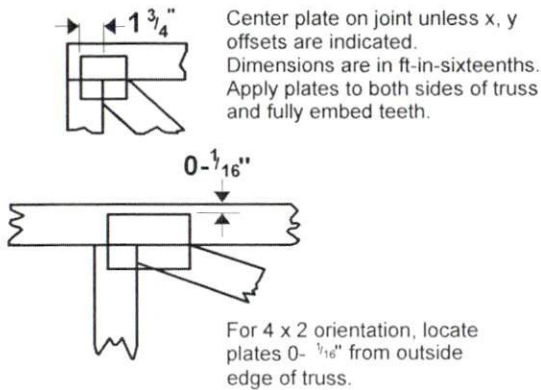
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



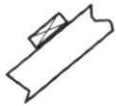
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

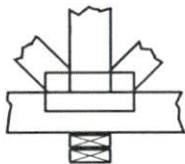
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

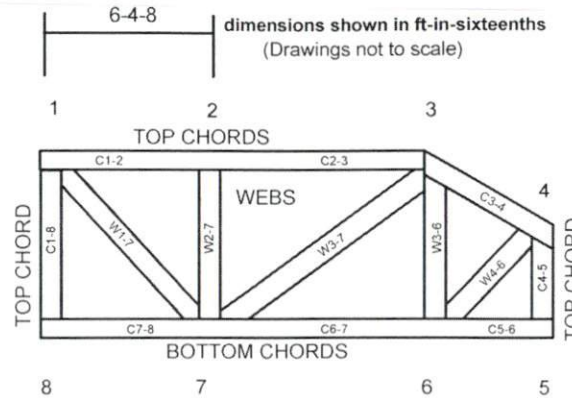


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

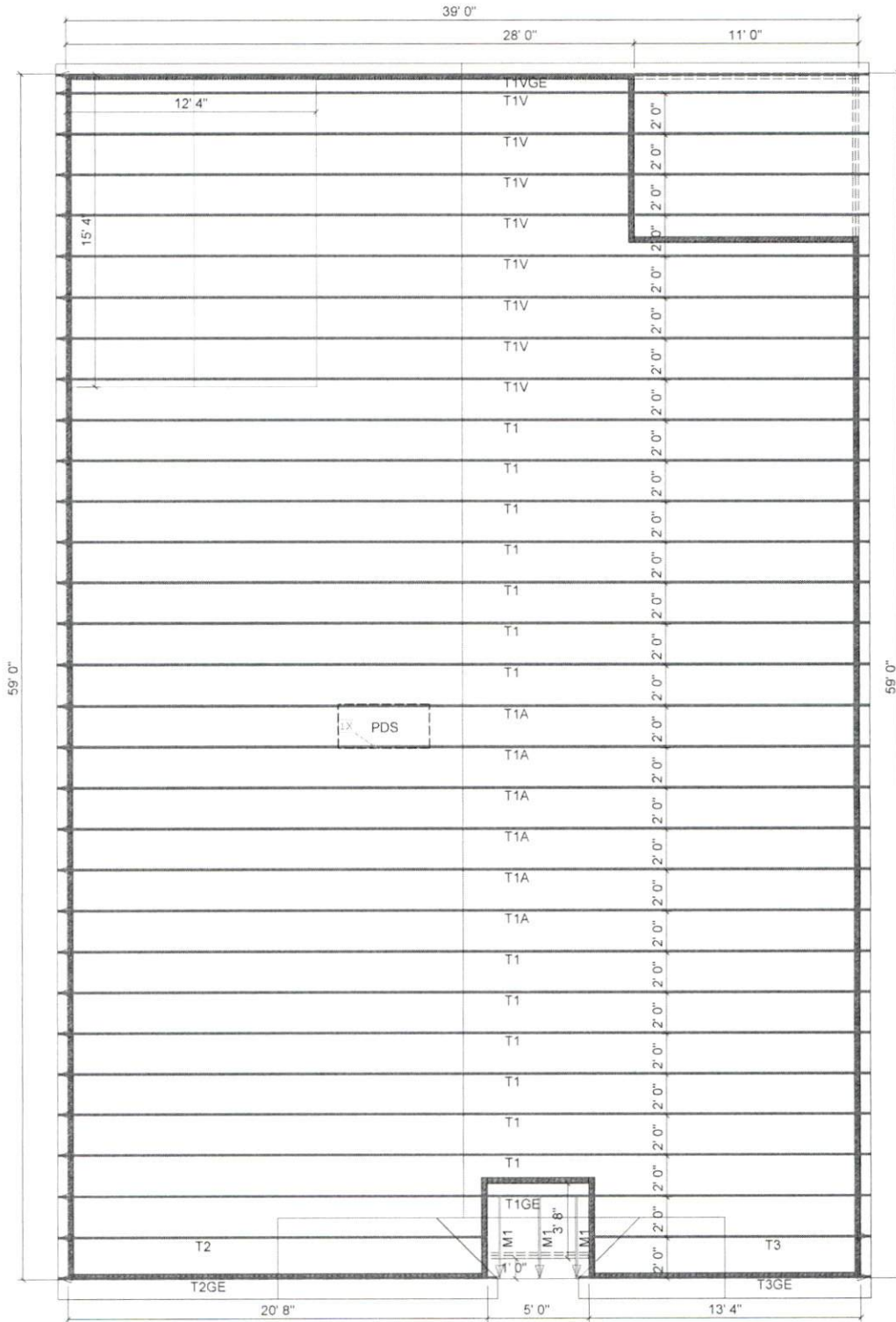
General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY.
REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.

Project: 001397 Order: MASTER



GENERAL NOTES
DO NOT CUT OR MODIFY TRUSSES.
TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.
△ - INDICATES LEFT END OF TRUSS.
REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY AND/OR SCAB CONNECTION REQUIREMENTS.
PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

Hardware List:

A		
B		
C		
D		
	80	H2.5A

84 LUMBER
COMPONENTS

DEDICATED TO QUALITY & EXCELLENCE
420 DIXON DAIRY ROAD
KINGS MOUNTAIN, NORTH CAROLINA
PHONE: 704.937.3712
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Project: Cali - NP Vault MBR (MASTER)		
Customer: EXPRESS HOMES		
Model: NP Vault MBR (MASTER)		
Scale: NOT TO SCALE	P.O. Number:	Order: MASTER
Quote by: Jason Ledbetter	Ship Date:	Project: 001397
Design by:	Salesperson: Terry Gonya	