

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 28586-28586A
10 PRINCE PLACE - ROOF

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: I48477579 thru I48477614

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

North Carolina COA: C-0844



October 25, 2021

Sevier, Scott

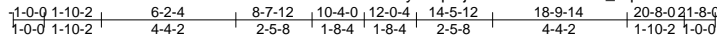
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 28586-28586A	Truss A1E	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477579
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84 Components (Dunn), Dunn, NC - 28334,

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4x6 =

Scale = 1:74.4

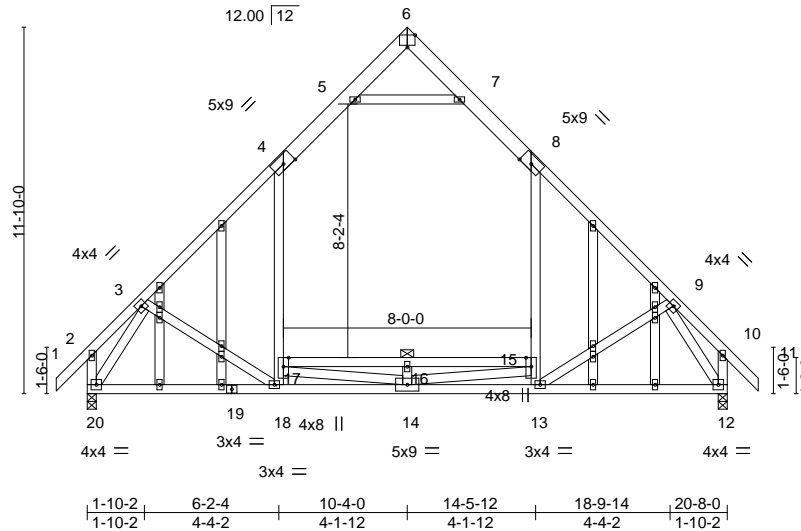


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) 0.19 18-20 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.27 16-17 >917 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 12 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.13 15-17 766 360	Weight: 193 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
4-6,6-8: 2x6 SP DSS
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
15-17: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
5-7,4-18,8-13: 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-4-0 oc bracing: 15-17

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Horz 20=276(LC 9)
Max Grav 20=1311(LC 19), 12=1311(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1346/0, 4-5=-812/44, 5-6=0/462, 6-7=0/462, 7-8=-812/44, 8-9=-1346/0
BOT CHORD 18-20=-25/875, 14-18=0/1065, 13-14=0/861, 12-13=0/699, 16-17=-1251/0, 15-16=-1251/0
WEBS 5-7=-1449/54, 4-17=0/606, 8-15=0/606, 3-18=-13/272, 9-13=-13/272, 3-20=-1392/0, 9-12=-1391/0, 14-16=-514/0, 14-17=0/1272, 14-15=0/1272

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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 studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * 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.
 - 8) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (10.0psf) on member(s).4-17, 8-15
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - 10) Attic room checked for L/360 deflection.



October 25, 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



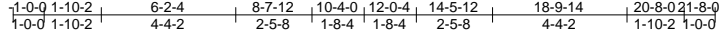
818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss A2	Truss Type ATTIC	Qty 3	Ply 1	10 PRINCE PLACE - ROOF	148477580
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84 Components (Dunn), Dunn, NC - 28334,

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4x6 =

Scale = 1:74.4

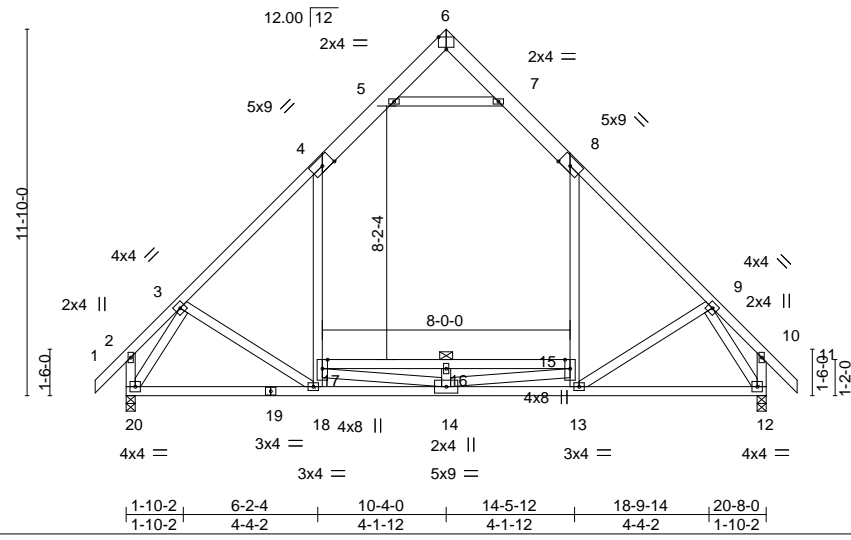


Plate Offsets (X,Y)--	[6:0-3-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	0.19 18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.27 16-17	>917	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.13 15-17	766	360	Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 4-6,6-8: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 15-17: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-4-0 oc bracing: 15-17
WEBS 2x4 SP No.3 *Except* 5-7,4-18,8-13: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS. (size) 20=0-3-8, 12=0-3-8
Max Horz 20=276(LC 9)
Max Grav 20=1311(LC 19), 12=1311(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1346/0, 4-5=-812/44, 5-6=0/462, 6-7=0/462, 7-8=-812/44, 8-9=-1346/0
BOT CHORD 18-20=-25/875, 14-18=0/1065, 13-14=0/861, 12-13=0/699, 16-17=-1251/0, 15-16=-1251/0
WEBS 5-7=-1449/54, 4-17=0/606, 8-15=0/606, 3-18=-13/272, 9-13=-13/272, 3-20=-1392/0, 9-12=-1391/0, 14-16=-514/0, 14-17=0/1272, 14-15=0/1272

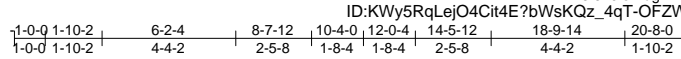
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (10.0psf) on member(s).4-17, 8-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - Attic room checked for L/360 deflection.



October 25, 2021

Job 28586-28586A	Truss A3	Truss Type ATTIC	Qty 3	Ply 1	10 PRINCE PLACE - ROOF	I48477581
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Job Reference (optional)



4x6 =

Scale = 1:74.8

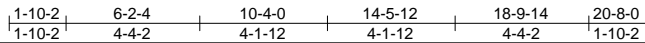
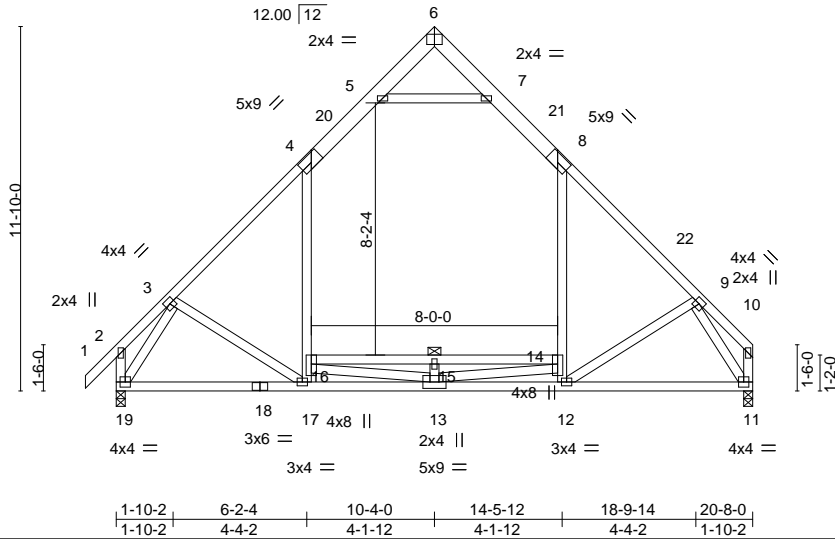


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

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 1.00	Vert(LL)	-0.17	12-13	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.28	14-15	>867		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.02	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.13	14-16	739		
								Weight: 167 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 4-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 14-16: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 4-4-0 oc bracing: 14-16
WEBS 2x4 SP No.3 *Except* 5-7,4-17,8-12: 2x4 SP No.2 or 2x4 SPF No.2	

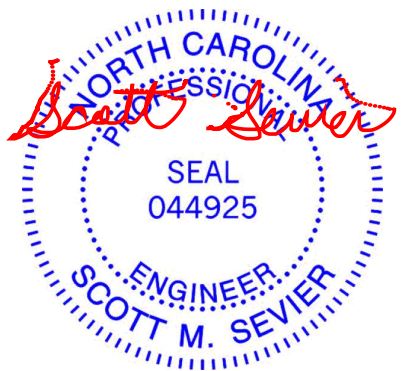
REACTIONS. (lb/size) 19=1112/0-3-8 (min. 0-1-15), 11=1039/0-3-8 (min. 0-1-14)
Max Horz 19=243(LC 11)
Max Grav 19=1246(LC 19), 11=1197(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1269/0, 4-20=-766/25, 5-20=-692/47, 5-6=0/398, 6-7=0/398, 7-21=-691/49,
8-21=-766/26, 8-22=-1138/0, 9-22=-1271/0
BOT CHORD 18-19=0/814, 17-18=0/814, 13-17=0/980, 12-13=0/816, 11-12=0/671, 15-16=-1260/0,
14-15=-1260/0
WEBS 5-7=-1306/57, 4-16=0/563, 8-14=0/564, 3-19=-1333/0, 9-11=-1325/0, 13-15=-514/0,
13-16=0/1277, 13-14=0/1275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 1-8-9, Interior(1) 1-8-9 to 10-4-0, Exterior(2) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-6-4 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-16, 8-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16, 14-15
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 11-19=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 5-7=-10, 14-16=-30
Drag: 4-16=-10, 8-14=-10



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - ROOF	I48477581
28586-28586A	A3	ATTIC	3	1	Job Reference (optional)	

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 10:36:10 2021 Page 2
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LOAD CASE(S)

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 5-7=-10, 14-16=-90
 Drag: 4-16=-10, 8-14=-10
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 11-19=-40, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-30
 Drag: 4-16=-10, 8-14=-10
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=35, 2-3=19, 3-4=14, 4-5=8, 5-6=14, 6-7=19, 7-21=13, 8-21=8, 8-10=14, 5-7=-6, 14-16=-18
 Horz: 1-2=-47, 2-3=-31, 3-6=-26, 6-21=31, 10-21=26, 2-19=16, 10-11=28
 Drag: 4-16=-10, 8-14=-10
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=9, 2-4=14, 4-20=8, 5-20=13, 5-6=19, 6-7=14, 7-8=8, 8-22=14, 10-22=19, 5-7=-6, 14-16=-18
 Horz: 1-2=-21, 2-20=-26, 6-20=-31, 6-22=26, 10-22=31, 2-19=-28, 10-11=-16
 Drag: 4-16=-10, 8-14=-10
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=1, 2-4=-46, 4-5=-56, 5-6=-46, 6-7=-46, 7-8=-56, 8-10=-46, 5-7=-10, 14-16=-30
 Horz: 1-2=-21, 2-6=26, 6-10=-26, 2-19=-19, 10-11=-26
 Drag: 4-16=-10, 8-14=-10
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-41, 2-4=-46, 4-5=-56, 5-6=-46, 6-7=-46, 7-8=-56, 8-10=-46, 5-7=-10, 14-16=-30
 Horz: 1-2=21, 2-6=26, 6-10=-26, 2-19=26, 10-11=19
 Drag: 4-16=-10, 8-14=-10
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=5, 2-4=7, 4-5=-13, 5-6=-7, 6-7=5, 7-8=-1, 8-10=5, 5-7=-6, 14-16=-18
 Horz: 1-2=-17, 2-6=-5, 6-10=17, 2-19=13, 10-11=15
 Drag: 4-16=-10, 8-14=-10
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=1, 2-4=5, 4-5=-1, 5-6=5, 6-7=-7, 7-8=-13, 8-10=7, 5-7=-6, 14-16=-18
 Horz: 1-2=-13, 2-6=-17, 6-10=5, 2-19=-15, 10-11=-13
 Drag: 4-16=-10, 8-14=-10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-26, 2-4=-31, 4-5=-41, 5-6=-31, 6-7=-12, 7-8=-22, 8-10=-12, 5-7=-10, 14-16=-30
 Horz: 1-2=6, 2-6=11, 6-10=8, 2-19=22, 10-11=6
 Drag: 4-16=-10, 8-14=-10
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-7, 2-4=-12, 4-5=-22, 5-6=-12, 6-7=-31, 7-8=-41, 8-10=-31, 5-7=-10, 14-16=-30
 Horz: 1-2=-13, 2-6=-8, 6-10=-11, 2-19=-6, 10-11=-22
 Drag: 4-16=-10, 8-14=-10
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=25, 2-4=13, 4-5=7, 5-6=13, 6-7=13, 7-8=7, 8-10=13, 5-7=-6, 14-16=-18
 Horz: 1-2=-37, 2-6=-25, 6-10=25, 2-19=-19, 10-11=19
 Drag: 4-16=-10, 8-14=-10
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-12, 1-2=16, 2-4=4, 4-5=-2, 5-6=4, 6-7=4, 7-8=-2, 8-10=4, 5-7=-6, 14-16=-18
 Horz: 1-2=-28, 2-6=-16, 6-10=16, 2-19=-19, 10-11=19
 Drag: 4-16=-10, 8-14=-10
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-16, 2-4=-21, 4-5=-31, 5-6=-21, 6-7=-21, 7-8=-31, 8-10=-21, 5-7=-10, 14-16=-30
 Horz: 1-2=-4, 2-6=1, 6-10=-1, 2-19=-10, 10-11=10
 Drag: 4-16=-10, 8-14=-10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-16, 2-4=-21, 4-5=-31, 5-6=-21, 6-7=-21, 7-8=-31, 8-10=-21, 5-7=-10, 14-16=-30
 Horz: 1-2=-4, 2-6=1, 6-10=-1, 2-19=-10, 10-11=10
 Drag: 4-16=-10, 8-14=-10
- 16) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-110
 Drag: 4-16=-10, 8-14=-10
- 17) Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-110
 Drag: 4-16=-10, 8-14=-10

Continued on page 3

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	10 PRINCE PLACE - ROOF	I48477581
28586-28586A	A3	ATTIC	3	1	Job Reference (optional)	

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 10:36:10 2021 Page 3
 ID:KWy5RqLejO4Cit4E?bWsKQz_4qT-sR7us?t51oJOUoYpA4Yr4_fmJe4TISKYpbGh_DyQu8J

LOAD CASE(S)

- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-55, 2-4=-58, 4-5=-68, 5-6=-58, 6-7=-44, 7-8=-54, 8-10=-44, 5-7=-10, 14-16=-90
 Horz: 1-2=5, 2-6=8, 6-10=6, 2-19=16, 10-11=5
 Drag: 4-16=-10, 8-14=-10
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-40, 2-4=-44, 4-5=-54, 5-6=-44, 6-7=-58, 7-8=-68, 8-10=-58, 5-7=-10, 14-16=-90
 Horz: 1-2=-10, 2-6=-6, 6-10=-8, 2-19=-5, 10-11=-16
 Drag: 4-16=-10, 8-14=-10
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-47, 2-4=-51, 4-5=-61, 5-6=-51, 6-7=-51, 7-8=-61, 8-10=-51, 5-7=-10, 14-16=-90
 Horz: 1-2=-3, 2-6=1, 6-10=-1, 2-19=-8, 10-11=8
 Drag: 4-16=-10, 8-14=-10
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-47, 2-4=-51, 4-5=-61, 5-6=-51, 6-7=-51, 7-8=-61, 8-10=-51, 5-7=-10, 14-16=-90
 Horz: 1-2=-3, 2-6=1, 6-10=-1, 2-19=-8, 10-11=8
 Drag: 4-16=-10, 8-14=-10
- 22) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-30
 Drag: 4-16=-10, 8-14=-10
- 23) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-60, 7-8=-70, 8-10=-60, 5-7=-10, 14-16=-30
 Drag: 4-16=-10, 8-14=-10
- 24) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-90
 Drag: 4-16=-10, 8-14=-10
- 25) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-50, 7-8=-60, 8-10=-50, 5-7=-10, 14-16=-90
 Drag: 4-16=-10, 8-14=-10

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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	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - ROOF	I48477582
28586-28586A	A4	ATTIC	3	1	Job Reference (optional)	

8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 10:37:06 2021 Page 2
 ID:KWY5RqLejO4Cit4E?bWsKQz_4qT-DDW3c9YDr?MScPqaSqYzLozKaDBWQn_ohJrfxyQu7R

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 5-7=-10, 14-16=-30
 - Drag: 4-16=-10, 8-14=-10
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-50, 7-8=-60, 8-10=-50, 5-7=-10, 14-16=-90
 - Drag: 4-16=-10, 8-14=-10
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 11-19=-40, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-30
 - Drag: 4-16=-10, 8-14=-10
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=35, 2-3=19, 3-4=14, 4-5=8, 5-6=14, 6-7=19, 7-22=13, 8-22=8, 8-10=14, 5-7=-6, 11-20=-28, 14-16=-18
 - Horz: 1-2=-47, 2-3=-31, 3-6=-26, 6-22=31, 10-22=26, 2-19=16, 10-11=28
 - Drag: 4-16=-10, 8-14=-10
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=9, 2-4=14, 4-21=8, 5-21=13, 5-6=19, 6-7=14, 7-8=8, 8-23=14, 10-23=19, 5-7=-6, 11-20=16, 14-16=-18
 - Horz: 1-2=-21, 2-21=-26, 6-21=-31, 6-23=26, 10-23=31, 2-19=-28, 10-11=-16
 - Drag: 4-16=-10, 8-14=-10
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=1, 2-4=-46, 4-5=-56, 5-6=-46, 6-7=-46, 7-8=-56, 8-10=-46, 5-7=-10, 11-20=26, 14-16=-30
 - Horz: 1-2=-21, 2-6=26, 6-10=26, 2-19=-19, 10-11=-26
 - Drag: 4-16=-10, 8-14=-10
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-41, 2-4=-46, 4-5=-56, 5-6=-46, 6-7=-46, 7-8=-56, 8-10=-46, 5-7=-10, 11-20=-19, 14-16=-30
 - Horz: 1-2=21, 2-6=26, 6-10=26, 2-19=26, 10-11=19
 - Drag: 4-16=-10, 8-14=-10
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=5, 2-4=-7, 4-5=-13, 5-6=-7, 6-7=5, 7-8=-1, 8-10=5, 5-7=-6, 11-20=-15, 14-16=-18
 - Horz: 1-2=-17, 2-6=-5, 6-10=17, 2-19=13, 10-11=15
 - Drag: 4-16=-10, 8-14=-10
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=1, 2-4=5, 4-5=-1, 5-6=5, 6-7=-7, 7-8=-13, 8-10=7, 5-7=-6, 11-20=13, 14-16=-18
 - Horz: 1-2=-13, 2-6=-17, 6-10=5, 2-19=-15, 10-11=-13
 - Drag: 4-16=-10, 8-14=-10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-26, 2-4=-31, 4-5=-41, 5-6=-31, 6-7=-12, 7-8=-22, 8-10=-12, 5-7=-10, 11-20=-6, 14-16=-30
 - Horz: 1-2=6, 2-6=11, 6-10=8, 2-19=22, 10-11=6
 - Drag: 4-16=-10, 8-14=-10
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-7, 2-4=-12, 4-5=-22, 5-6=-12, 6-7=-31, 7-8=-41, 8-10=-31, 5-7=-10, 11-20=22, 14-16=-30
 - Horz: 1-2=-13, 2-6=8, 6-10=-11, 2-19=-6, 10-11=22
 - Drag: 4-16=-10, 8-14=-10
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=25, 2-4=13, 4-5=7, 5-6=13, 6-7=13, 7-8=7, 8-10=13, 5-7=-6, 11-20=-19, 14-16=-18
 - Horz: 1-2=-37, 2-6=-25, 6-10=25, 2-19=-19, 10-11=19
 - Drag: 4-16=-10, 8-14=-10
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-12, 1-2=16, 2-4=4, 4-5=-2, 5-6=4, 6-7=4, 7-8=-2, 8-10=4, 5-7=-6, 11-20=-19, 14-16=-18
 - Horz: 1-2=-28, 2-6=16, 6-10=16, 2-19=-19, 10-11=19
 - Drag: 4-16=-10, 8-14=-10
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-16, 2-4=-21, 4-5=-31, 5-6=-21, 6-7=-21, 7-8=-31, 8-10=-21, 5-7=-10, 11-20=-10, 14-16=-30
 - Horz: 1-2=-4, 2-6=1, 6-10=-1, 2-19=-10, 10-11=10
 - Drag: 4-16=-10, 8-14=-10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-16, 2-4=-21, 4-5=-31, 5-6=-21, 6-7=-21, 7-8=-31, 8-10=-21, 5-7=-10, 11-20=-10, 14-16=-30
 - Horz: 1-2=-4, 2-6=1, 6-10=-1, 2-19=-10, 10-11=10
 - Drag: 4-16=-10, 8-14=-10
- 16) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-110
 - Drag: 4-16=-10, 8-14=-10
- 17) Dead: Lumber Increase=1.00, Plate Increase=1.00

Continued on page 3

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818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss A4	Truss Type ATTIC	Qty 3	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	I48477582
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8.520 s Aug 27 2021 MiTek Industries, Inc. Fri Oct 22 10:37:06 2021 Page 3
 ID:KWY5RqLejO4Cit4E?bWsKQz_4qT-DDW3c9YDr?MScPqaSqYzLozKaDBWQn_ohJrfxyQu7R

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-110
 - Drag: 4-16=-10, 8-14=-10
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-55, 2-4=-58, 4-5=-68, 5-6=-58, 6-7=-44, 7-8=-54, 8-10=-44, 5-7=-10, 11-20=-5, 14-16=-90
 - Horz: 1-2=5, 2-6=8, 6-10=6, 2-19=16, 10-11=5
 - Drag: 4-16=-10, 8-14=-10
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-40, 2-4=-44, 4-5=-54, 5-6=-44, 6-7=-58, 7-8=-68, 8-10=-58, 5-7=-10, 11-20=16, 14-16=-90
 - Horz: 1-2=-10, 2-6=-6, 6-10=-8, 2-19=-5, 10-11=16
 - Drag: 4-16=-10, 8-14=-10
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-47, 2-4=-51, 4-5=-61, 5-6=-51, 6-7=-51, 7-8=-61, 8-10=-51, 5-7=-10, 11-20=-8, 14-16=-90
 - Horz: 1-2=-3, 2-6=1, 6-10=-1, 2-19=-8, 10-11=8
 - Drag: 4-16=-10, 8-14=-10
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-47, 2-4=-51, 4-5=-61, 5-6=-51, 6-7=-51, 7-8=-61, 8-10=-51, 5-7=-10, 11-20=-8, 14-16=-90
 - Horz: 1-2=-3, 2-6=1, 6-10=-1, 2-19=-8, 10-11=8
 - Drag: 4-16=-10, 8-14=-10
- 22) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-30
 - Drag: 4-16=-10, 8-14=-10
- 23) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-60, 7-8=-70, 8-10=-60, 5-7=-10, 14-16=-30
 - Drag: 4-16=-10, 8-14=-10
- 24) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-20, 7-8=-30, 8-10=-20, 5-7=-10, 14-16=-90
 - Drag: 4-16=-10, 8-14=-10
- 25) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-19=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-50, 7-8=-60, 8-10=-50, 5-7=-10, 14-16=-90
 - Drag: 4-16=-10, 8-14=-10

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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

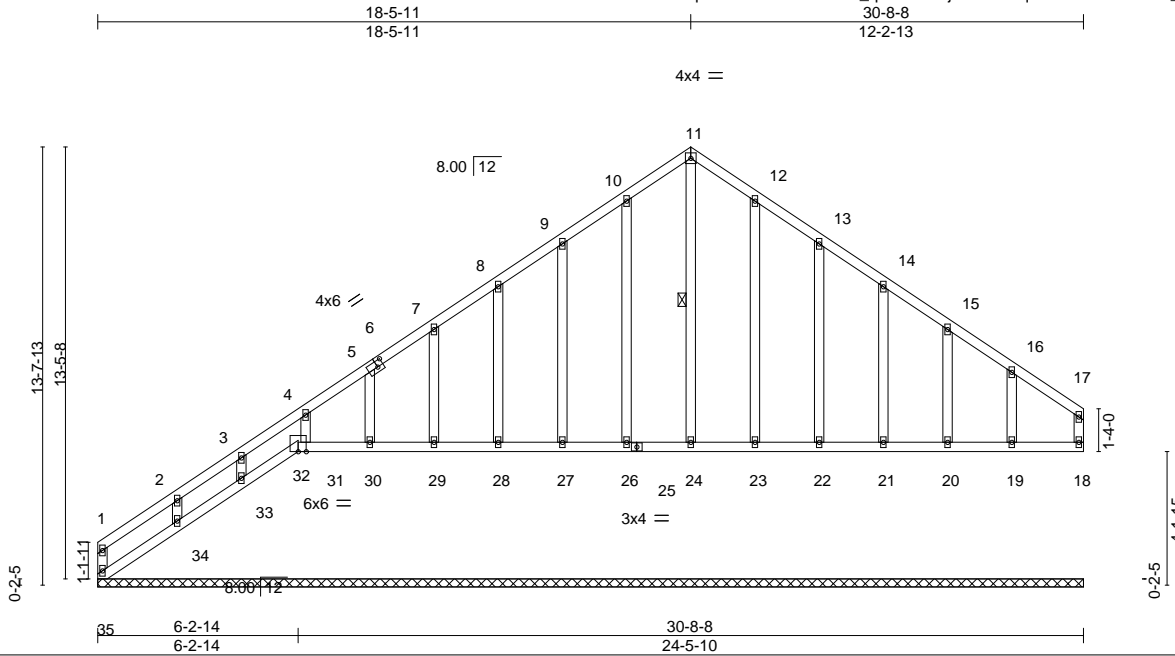


818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss B1E	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477583
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 15 15:23:15 2021 Page 1
ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-XJWvjJGkmM2qUdR8dF7Rt8RonxI_tPb2qylZCyR91A



Scale = 1:71.8

Plate Offsets (X, Y)--	[6:0-2-4,0-2-4]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.01	18	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R				
							PLATES MT20
							GRIP 197/144
							Weight: 196 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-24
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 30-8-8.
 (lb) - Max Horz 35=280(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 26, 27, 28, 29, 30, 31, 33, 23, 22, 21, 20, 19 except 35=169(LC 8), 18=113(LC 10), 34=173(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 18, 32, 26, 27, 28, 29, 30, 31, 33, 23, 22, 21, 20, 19 except 35=260(LC 7), 24=275(LC 10), 34=273(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-253/283, 10-11=-289/326, 11-12=-289/326, 12-13=-253/283
 WEBS 11-24=-303/210

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 26, 27, 28, 29, 30, 31, 33, 22, 21, 20, 19 except (jt=lb) 35=169, 18=113, 34=173.
 - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 32, 24, 26, 27, 28, 29, 30, 31, 33, 34, 23, 22, 21, 20, 19.



October 25, 2021

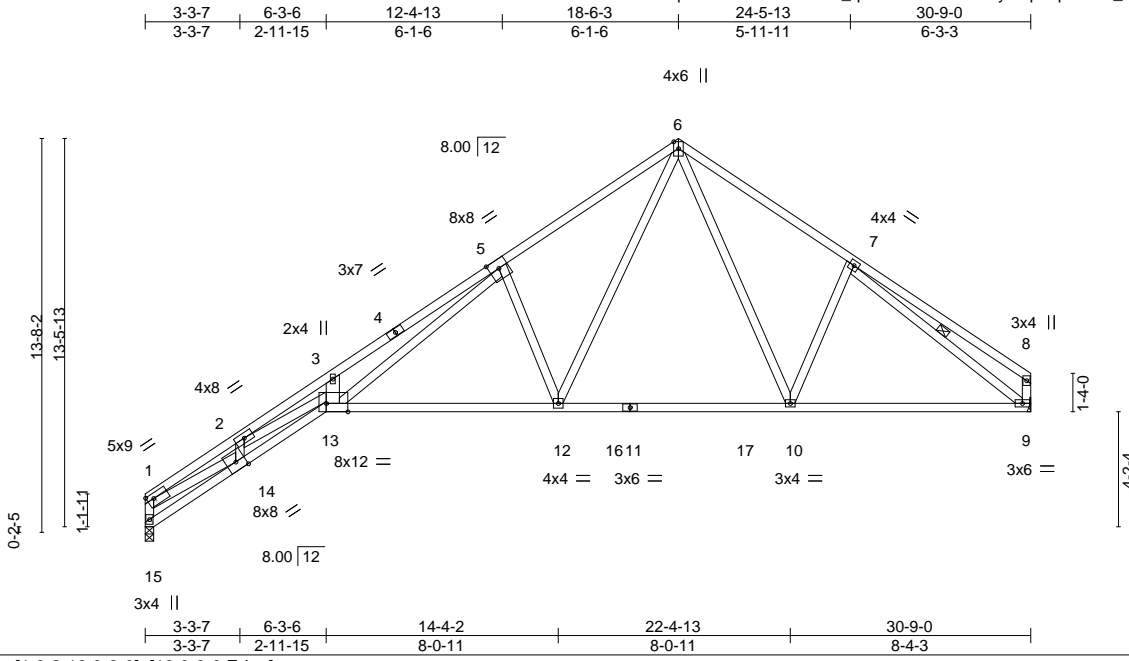
Job 28586-28586A	Truss B2	Truss Type Common	Qty 9	Ply 1	10 PRINCE PLACE - ROOF	148477584
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:18 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-xuC1LKl8ikchyM0ploq2Wml9_mEB3v1koBP9XyR917



Scale = 1:80.0

Plate Offsets (X, Y)--	[1:0-2-12,0-2-0], [13:0-9-0,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 0.98	Vert(LL) -0.54 12-13 >672 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -1.15 12-13 >318 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) -0.79 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 186 lb	FT = 20%

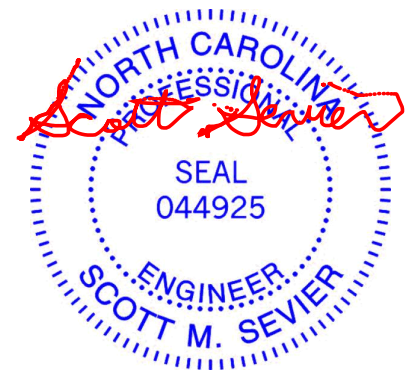
LUMBER-
TOP CHORD 2x4 SP DSS *Except*
6-8: 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
13-15: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
1-14,2-13: 2x4 SP No.2 or 2x4 SPF No.2, 3-13: 2x6 SP No.2
5-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 15=0-3-8, 9=Mechanical
Max Horz 9=280(LC 7)
Max Uplift 15=86(LC 10), 9=-34(LC 11)
Max Grav 15=1218(LC 1), 9=1218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-1240/132, 1-2=-4277/336, 2-3=-6789/378, 3-5=-6774/533, 5-6=-1886/281,
6-7=-1449/255, 7-8=-278/114, 8-9=-266/99
BOT CHORD 13-14=-234/3933, 12-13=0/1836, 10-12=0/1037, 9-10=-7/1301
WEBS 1-14=-226/3566, 2-14=-843/85, 2-13=0/2438, 5-13=-339/4927, 5-12=-956/245,
6-12=-137/1270, 6-10=-99/465, 7-9=-1379/69

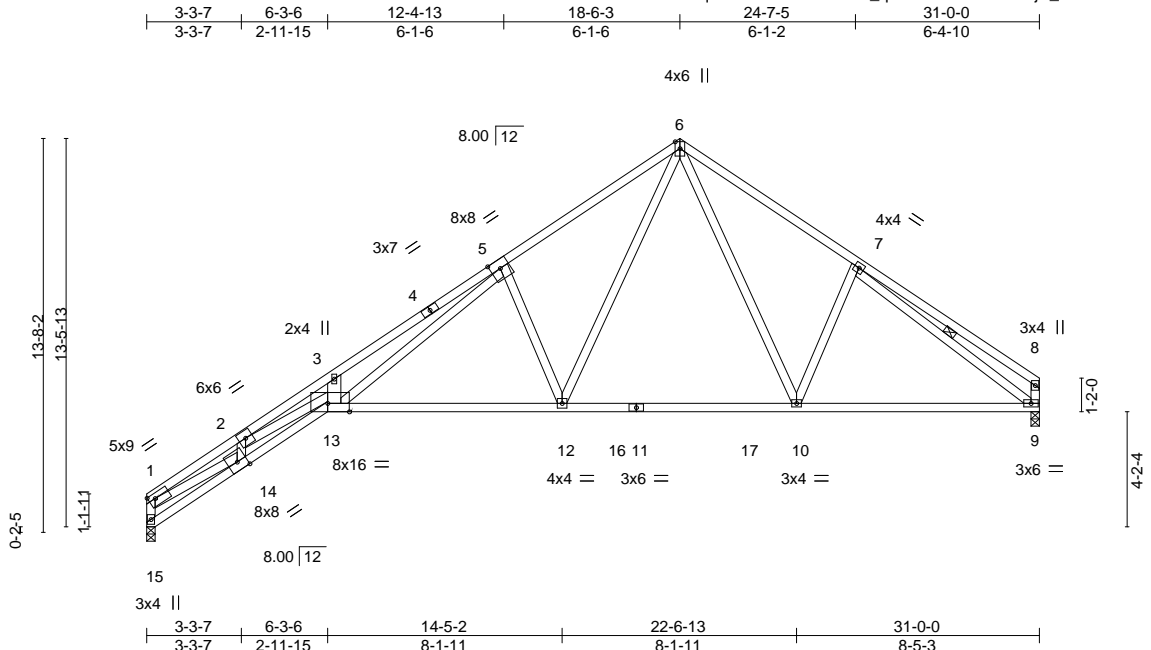
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.



October 25, 2021

Job 28586-28586A	Truss B4	Truss Type Common	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	148477586
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84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:23 2021 Page 1
 ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-Ir?wO2MlzFNvnjE_cIO?IZTCz?T9rK1mu4uArlyR912



Scale = 1:80.0

Plate Offsets (X,Y)--	[1:0-2-12,0-2-0], [13:0-9-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.55 12-13	>669	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	LC 0.92	Vert(CT)	-1.17 12-13	>315	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	-0.80 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* 6-8: 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 13-15: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-13.
WEBS 2x4 SP No.3 *Except* 3-13: 2x6 SP No.2, 5-13: 2x4 SP No.1 1-14,2-13: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 7-9

REACTIONS. (size) 15=0-3-8, 9=0-3-8
 Max Horz 9=278(LC 7)
 Max Uplift 15=-86(LC 10), 9=-35(LC 11)
 Max Grav 15=1228(LC 1), 9=1228(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-1250/133, 1-2=-4314/339, 2-3=-6860/383, 3-5=-6844/538, 5-6=-1898/280,
 6-7=-1499/260, 7-8=-328/116, 8-9=-295/101
 BOT CHORD 13-14=-237/3968, 12-13=0/1859, 10-12=0/1057, 9-10=-13/1354
 WEBS 5-13=-342/4973, 5-12=-959/244, 6-12=-133/1267, 6-10=-103/500, 7-10=-251/216,
 7-9=-1381/69, 2-14=-852/85, 1-14=-229/3598, 2-13=0/2470

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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, with BCDL = 10.0psf.
 - 5) 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.



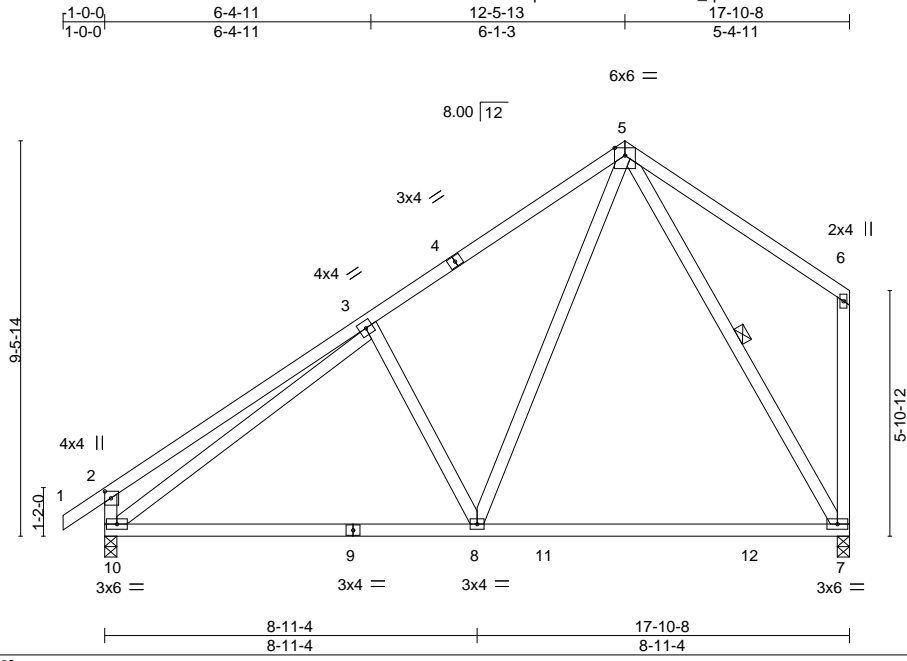
October 25, 2021

Job 28586-28586A	Truss C1	Truss Type Common	Qty 3	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477587
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:27 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-AcFREPPG0TILGKYlr8SxwPdPccsGn9TMpisO_WyR91_



Scale = 1:55.3

Plate Offsets (X,Y)--	[2:0-2-0,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.32	7-8	>657	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.46	7-8	>460		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-7

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=265(LC 7)
 Max Uplift 10=-51(LC 10), 7=-50(LC 10)
 Max Grav 10=774(LC 1), 7=766(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-341/154, 3-5=-683/182, 2-10=-372/167
 BOT CHORD 8-10=-97/705, 7-8=-53/344
 WEBS 3-8=-302/212, 5-8=-72/606, 3-10=-610/0, 5-7=-608/46

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.



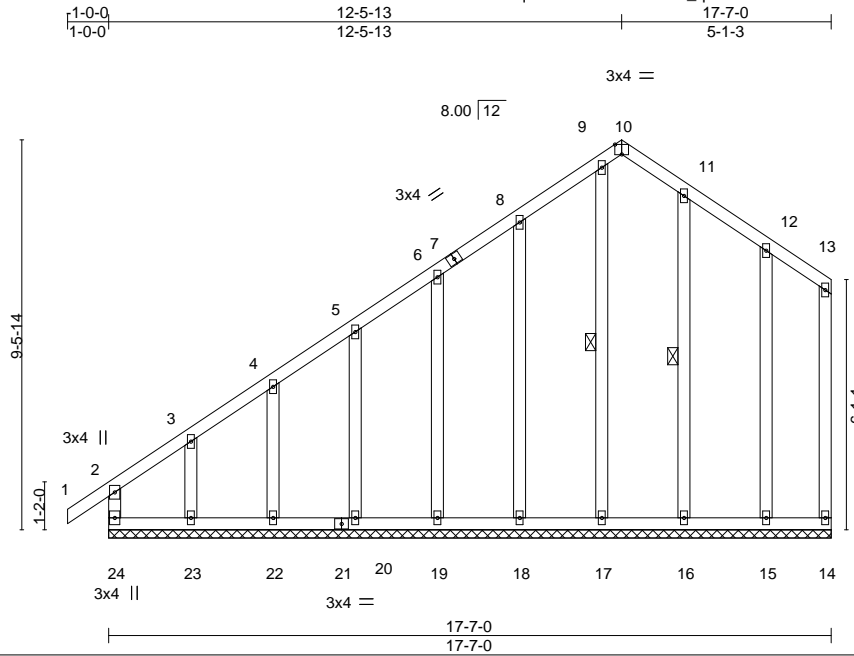
October 25, 2021

Job 28586-28586A	Truss C1E	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477588
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:30 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-bBwZtRS8JOFv7oHKWGOeY2FzPq2i_fiFvVg52aryR90x



Scale = 1:56.1

Plate Offsets (X,Y)--	[10:0-2-0,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 0.32	Vert(LL)	0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 138 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 9-17, 11-16
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 17-7-0.
 (lb) - Max Horz 24=268(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 22, 20, 19, 18, 17, 16, 15 except 24=145(LC 6), 23=173(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 14, 23, 22, 20, 19, 18, 17, 16, 15 except 24=286(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-272/210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 22, 20, 19, 18, 17, 16, 15 except (jt=lb) 24=145, 23=173.



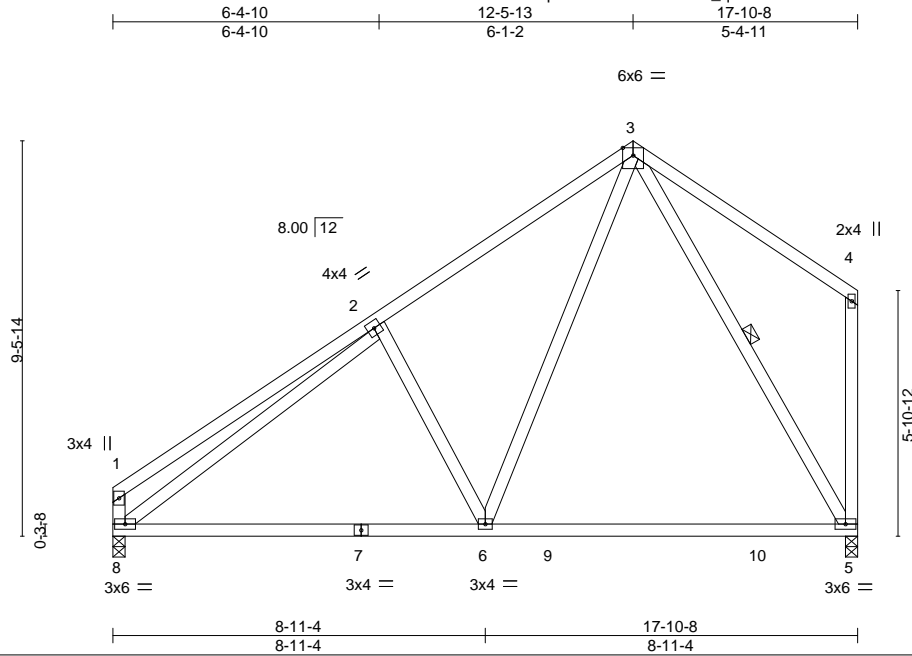
October 25, 2021

Job 28586-28586A	Truss C2	Truss Type Common	Qty 4	Ply 1	10 PRINCE PLACE - ROOF	I48477589
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:32 2021 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.32 5-6	>658	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.46 5-6	>460	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 117 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-5

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Horz 8=255(LC 7)
 Max Uplift 8=-32(LC 10), 5=-50(LC 10)
 Max Grav 8=703(LC 1), 5=768(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-288/113, 2-3=-689/183, 1-8=-270/99
 BOT CHORD 6-8=-98/713, 5-6=-53/345
 WEBS 2-6=-310/214, 3-6=-74/614, 2-8=-643/11, 3-5=-610/46

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.



October 25, 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

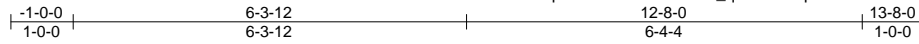
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss D1E	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477590
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:44 2021 Page 1

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3x4 =

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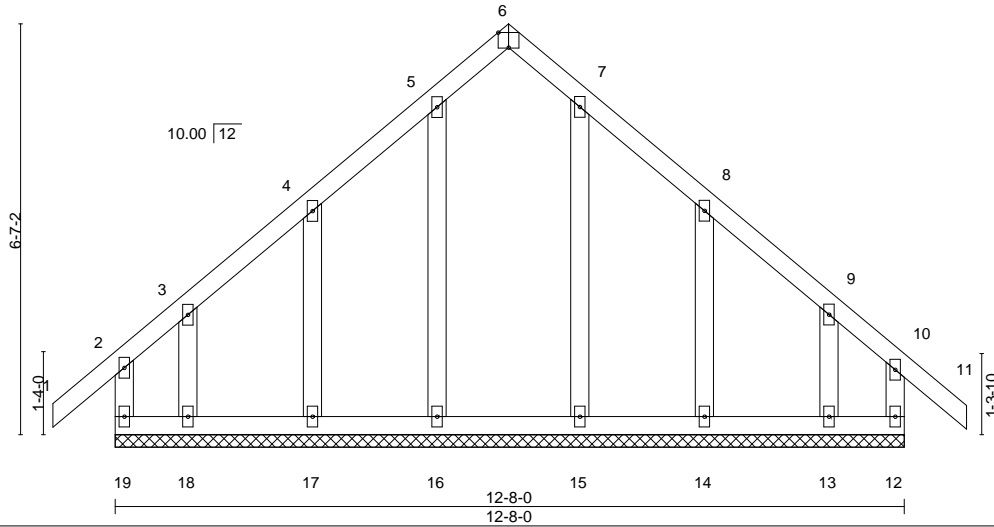


Plate Offsets (X,Y)--	[6:0-2-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.00	11	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 81 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

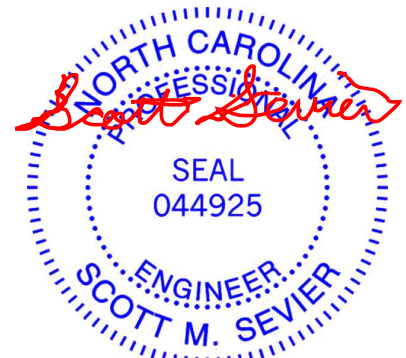
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 19=163(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 14 except 18=-147(LC 10), 13=-141(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14 except (jt=lb) 18=147, 13=141.



October 25, 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

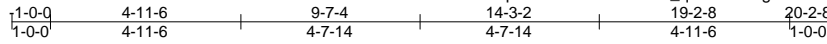
Job 28586-28586A	Truss D2E	Truss Type Common Structural Gable	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	148477591
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:23:49 2021 Page 1

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4x4 =

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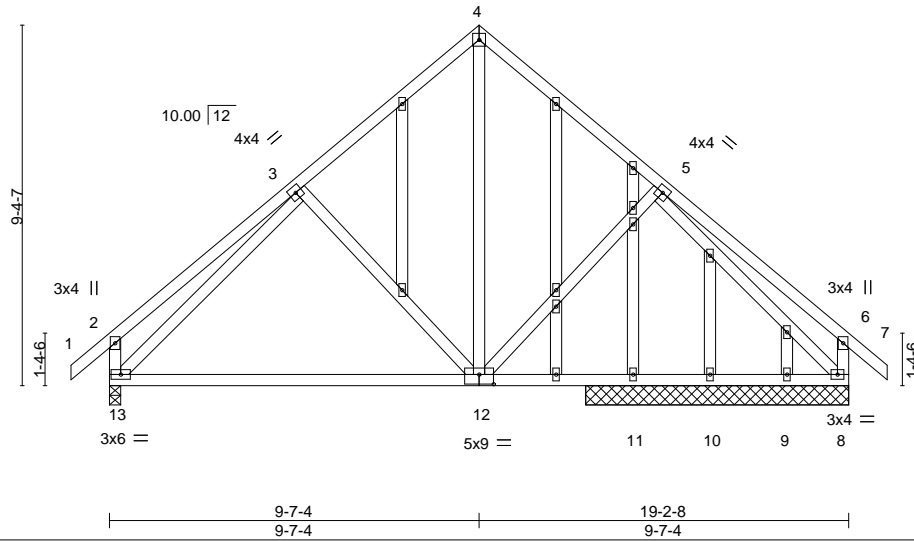


Plate Offsets (X, Y)--	[12:0-4-8,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.20 12-13	>800	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.41 12-13	>394	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 158 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 6-10-0 except (jt=length) 13=0-3-8.
 (lb) - Max Horz 13=222(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 8, 11
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9 except 13=808(LC 1), 8=751(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-282/132, 3-4=-614/177, 4-5=-614/177, 2-13=-325/154, 6-8=-273/182
 BOT CHORD 12-13=-73/566, 11-12=-0/498, 10-11=-0/498, 9-10=-0/498, 8-9=-0/498
 WEBS 4-12=-122/464, 3-13=-554/45, 5-8=-632/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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 studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * 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.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8, 11.



October 25, 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

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

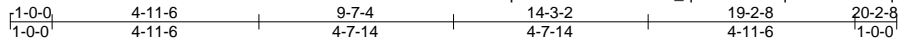
Job 28586-28586A	Truss D3	Truss Type Common	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477592
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:24:01 2021 Page 1

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4x4 =

Scale = 1:55.1

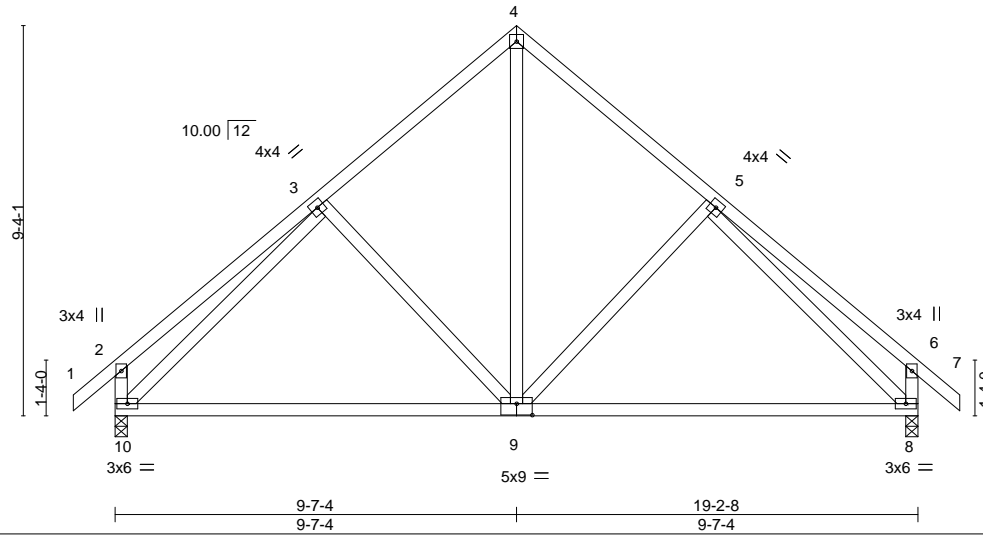


Plate Offsets (X,Y)-- [9:0-4-8,0-3-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.16 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.32 9-10 >712 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 125 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=-221(LC 8)
Max Uplift 10=-40(LC 10), 8=-40(LC 11)
Max Grav 10=825(LC 1), 8=825(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-274/137, 3-4=-647/162, 4-5=-647/162, 5-6=-274/137, 2-10=-320/157, 6-8=-319/157
BOT CHORD 9-10=-64/589, 8-9=0/528
WEBS 4-9=-103/505, 3-10=-596/24, 5-8=-596/24

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.



October 25, 2021

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818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss D3G	Truss Type Common Girder	Qty 1	Ply 2	10 PRINCE PLACE - ROOF	148477593
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84 Components (Dunn), Dunn, NC - 28334,

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4x6 ||

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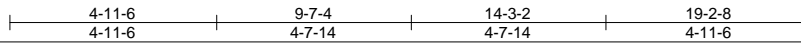
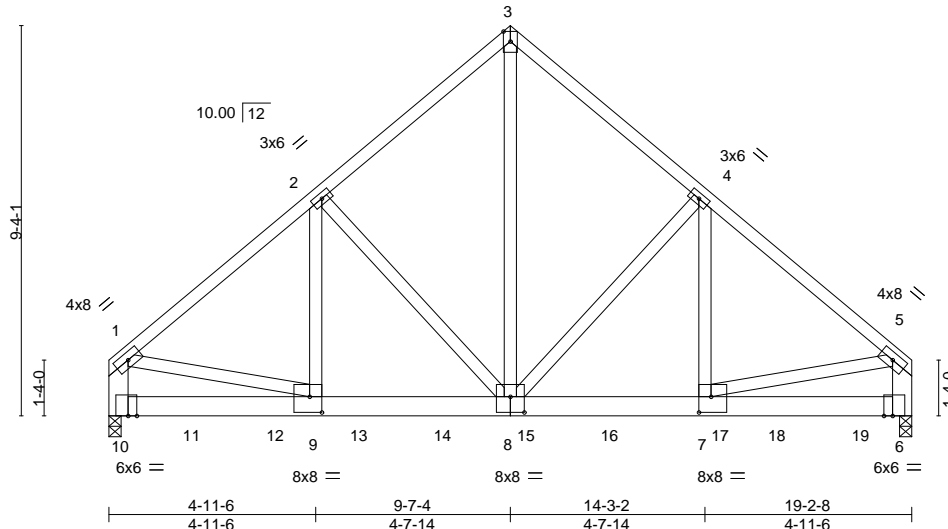


Plate Offsets (X, Y)--	[6:0-2-8,0-0-0], [7:0-3-8,0-4-8], [8:0-4-0,0-4-8], [9:0-3-8,0-4-8], [10:0-2-8,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.08	8-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.15	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
								Weight: 292 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-8: 2x4 SP No.2 or 2x4 SPF No.2, 1-10,5-6: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8 (req. 0-4-11), 6=0-3-8 (req. 0-4-15)
Max Horz 10=-199(LC 23)
Max Uplift 10=-220(LC 8), 6=-234(LC 9)
Max Grav 10=5951(LC 1), 6=6334(LC 1)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6182/268, 2-3=-4619/285, 3-4=-4619/285, 4-5=-6207/269, 1-10=-4974/210, 5-6=-4980/210
BOT CHORD 9-10=-207/758, 8-9=-214/4676, 7-8=-140/4695, 6-7=-57/773
WEBS 3-8=-270/5514, 4-8=-1809/203, 4-7=-67/2096, 2-8=-1780/202, 2-9=-65/2059, 1-9=-118/4071, 5-7=-118/4028

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"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 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - WARNING: Required bearing size at joint(s) 10, 6 greater than input bearing size.
 - Bearing at joint(s) 10, 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 (jt=lb) 10=220, 6=234.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1198 lb down and 54 lb up at 1-11-4, 1198 lb down and 54 lb up at 3-11-4, 1198 lb down and 54 lb up at 5-11-4, 1198 lb down and 54 lb up at 7-11-4, 1198 lb down and 54 lb up at 9-11-4, 1198 lb down and 54 lb up at 11-11-4, 1198 lb down and 54 lb up at 13-11-4, and 1198 lb down and 54 lb up at 15-11-4, and 1198 lb down and 54 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



October 25, 2021

Continued on page 2

LOAD CASE(S) Standard

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818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss D3G	Truss Type Common Girder	Qty 1	Ply 2	10 PRINCE PLACE - ROOF Job Reference (optional)	I48477593
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:24:11 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, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 11=-1198(B) 12=-1198(B) 13=-1198(B) 14=-1198(B) 15=-1198(B) 16=-1198(B) 17=-1198(B) 18=-1198(B) 19=-1198(B)

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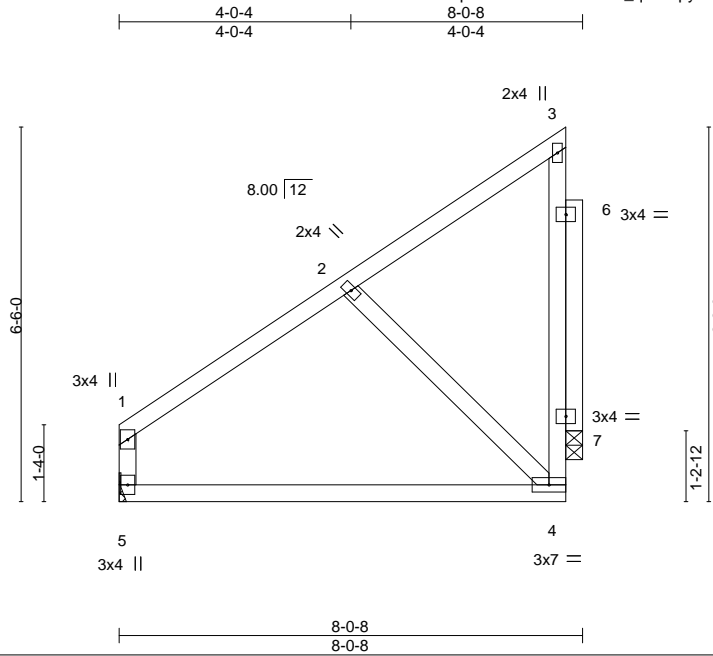
818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss M1	Truss Type Monopitch	Qty 5	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477594
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 15 21:24:20 2021 Page 1

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Scale = 1:40.0

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 0.44	Vert(LL)	-0.11	4-5	>810	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.21	4-5	>420		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 49 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.

(size) 5=Mechanical, 7=0-3-8
 Max Horz 5=194(LC 7)
 Max Uplift 7=71(LC 10)
 Max Grav 5=298(LC 1), 7=332(LC 17)

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

TOP CHORD 1-2=-259/81

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph 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
- 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.



October 25, 2021

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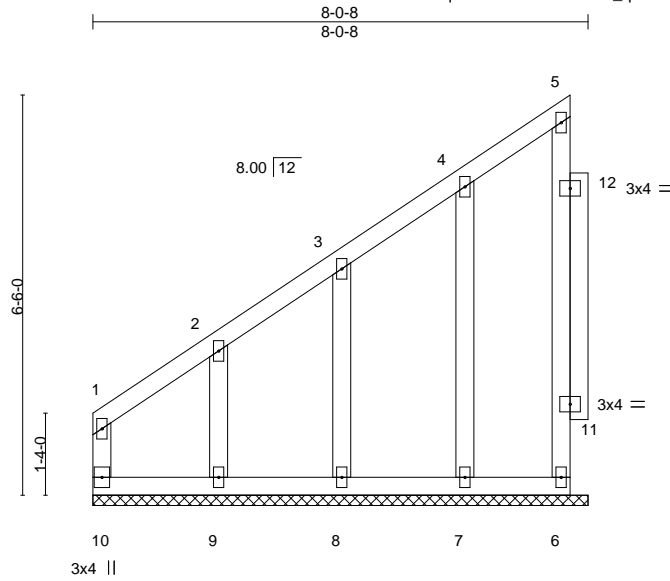
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss M1GE	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	I48477595
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84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:37.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 57 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 8-0-8.
 (lb) - Max Horz 10=194(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 6, 7, 8 except 9=148(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 10, 6, 7, 8, 9

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6, 7, 8 except (jt=lb) 9=148.



October 25, 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



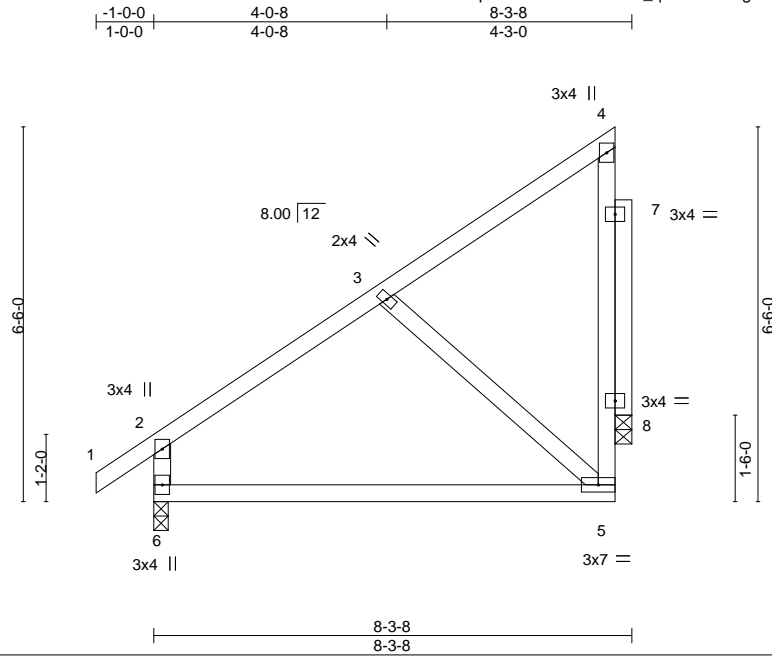
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss M2	Truss Type Monopitch	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477596
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:24:35 2021 Page 1

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Scale = 1:40.0

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 0.61	Vert(LL)	-0.12 5-6	>743	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.24 5-6	>381	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	-0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 51 lb	FT = 20%

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

REACTIONS. (size) 6=0-3-0, 8=0-3-8
 Max Horz 6=205(LC 7)
 Max Uplift 6=-15(LC 10), 8=-209(LC 10)
 Max Grav 6=382(LC 1), 8=1673(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-274/84, 4-8=-1447/167, 2-6=-300/124

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=209.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1337 lb down and 160 lb up at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 4=-1227(F)



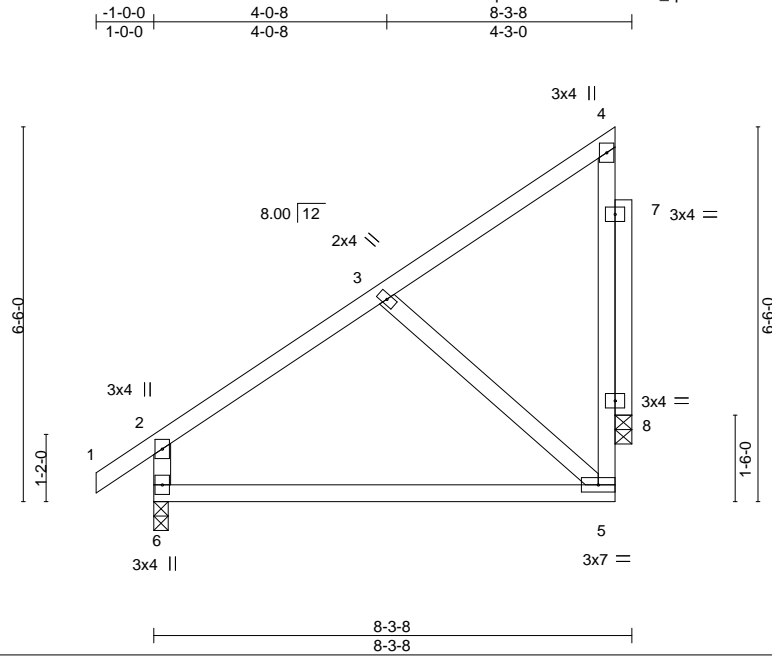
October 25, 2021

Job 28586-28586A	Truss M3	Truss Type Monopitch	Qty 6	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477597
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:24:40 2021 Page 1

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Scale = 1:40.0

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 0.61	Vert(LL)	-0.12 5-6	>743	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.24 5-6	>381	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	-0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 51 lb	FT = 20%

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

REACTIONS. (size) 6=0-3-0, 8=0-3-8
 Max Horz 6=205(LC 7)
 Max Uplift 6=-15(LC 10), 8=-209(LC 10)
 Max Grav 6=382(LC 1), 8=1673(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-274/84, 4-8=-1447/167, 2-6=-300/124

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=209.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1337 lb down and 160 lb up at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 4=-1227(F)



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



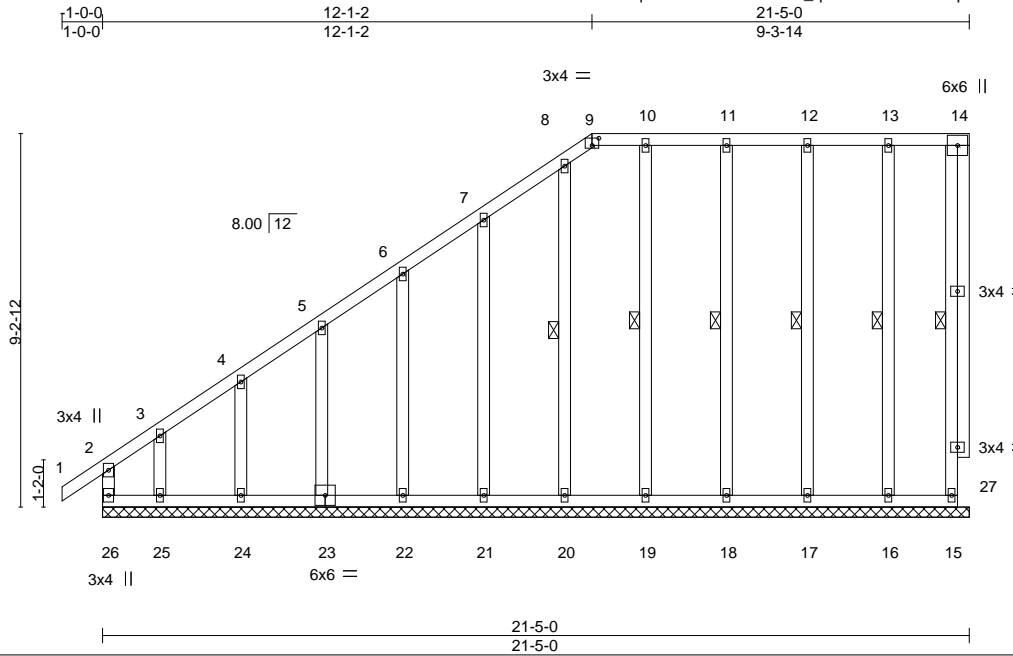
Job 28586-28586A	Truss M4E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477599
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:24:55 2021 Page 1

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Scale = 1:56.9

Plate Offsets (X,Y)--	[9:0-2-0,0-2-3]				
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 0.31	Vert(LL) -0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.00 1 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 189 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,24-25,23-24.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 14-15, 13-16, 12-17, 11-18, 10-19, 8-20
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 21-5-0.
 (lb) - Max Horz 26=297(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 except 26=141(LC 8), 25=229(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 except 26=334(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-305/189

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 except (jt=lb) 26=141, 25=229.



October 25, 2021

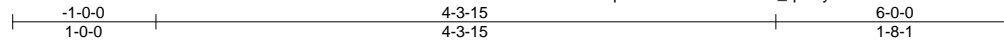
Job 28586-28586A	Truss M5	Truss Type Monopitch	Qty 6	Ply 1	10 PRINCE PLACE - ROOF	148477600
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84 Components (Dunn),

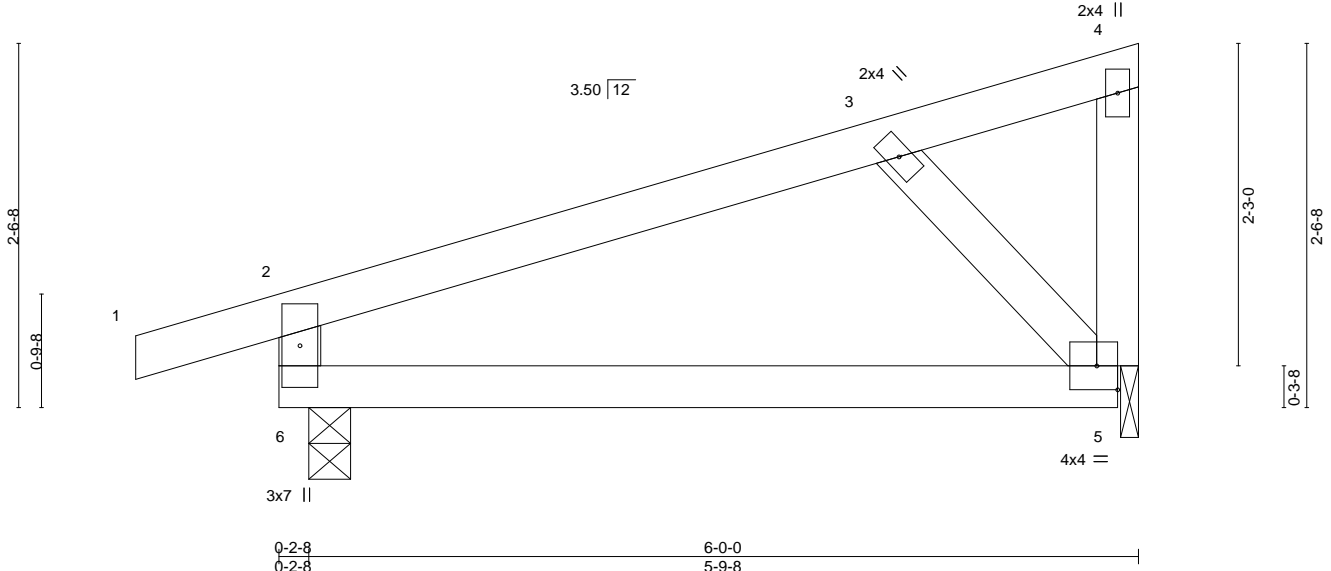
Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:00 2021 Page 1

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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 0.23	Vert(LL)	-0.04	5-6	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.07	5-6	>932		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 26 lb	FT = 20%

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

REACTIONS. (size) 6=0-3-8, 5=0-1-8
 Max Horz 6=81(LC 7)
 Max Uplift 6=-59(LC 6), 5=-30(LC 10)
 Max Grav 6=304(LC 1), 5=221(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.



Job 28586-28586A	Truss M5E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	148477601
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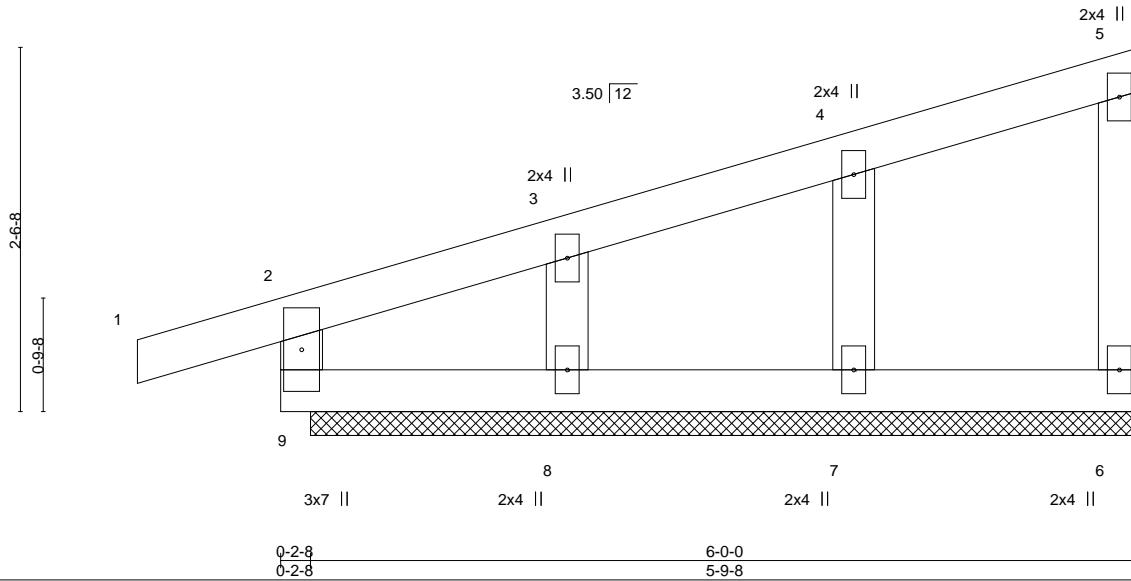
84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:02 2021 Page 1
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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 0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 27 lb	FT = 20%

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

REACTIONS. All bearings 5-9-8.
 (lb) - Max Horz 9=81(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 9, 6, 7, 8

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6, 7, 8.
 - 8) Non Standard bearing condition. Review required.



October 25, 2021

Job 28586-28586A	Truss M6	Truss Type Monopitch	Qty 2	Ply 1	10 PRINCE PLACE - ROOF	148477602
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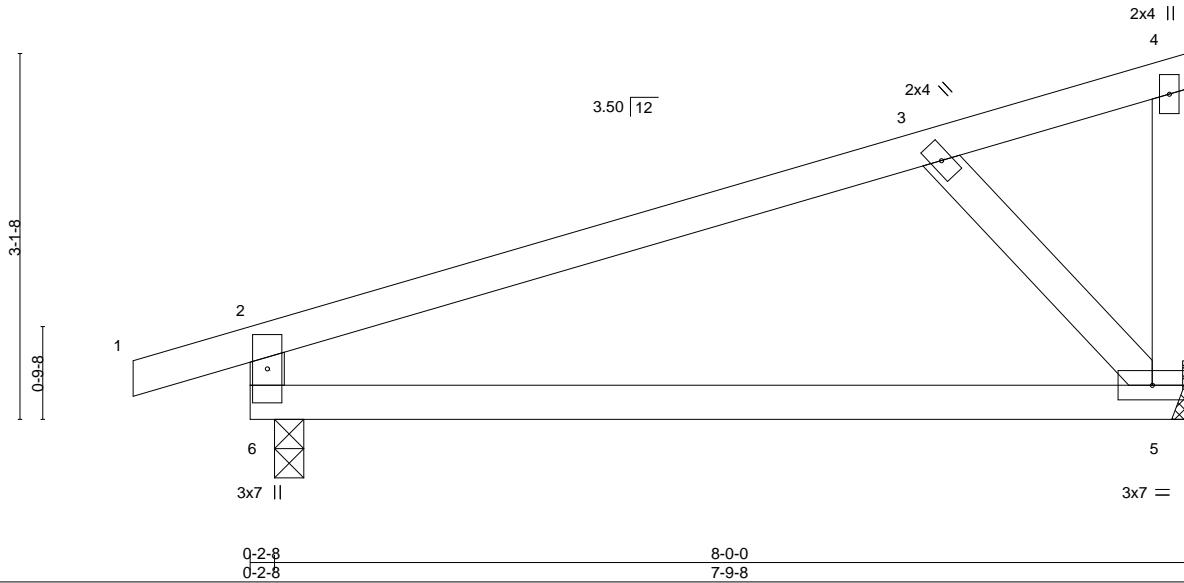
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:03 2021 Page 1

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Scale = 1:19.7



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 0.45	Vert(LL)	-0.12	5-6	>754	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.25	5-6	>376	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						Weight: 34 lb	FT = 20%

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

REACTIONS. (size) 6=0-3-0, 5=Mechanical
 Max Horz 6=102(LC 7)
 Max Uplift 6=-66(LC 6), 5=-41(LC 10)
 Max Grav 6=382(LC 1), 5=303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-300/115, 2-6=-305/178
 WEBS 3-5=-327/192

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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) 6, 5.

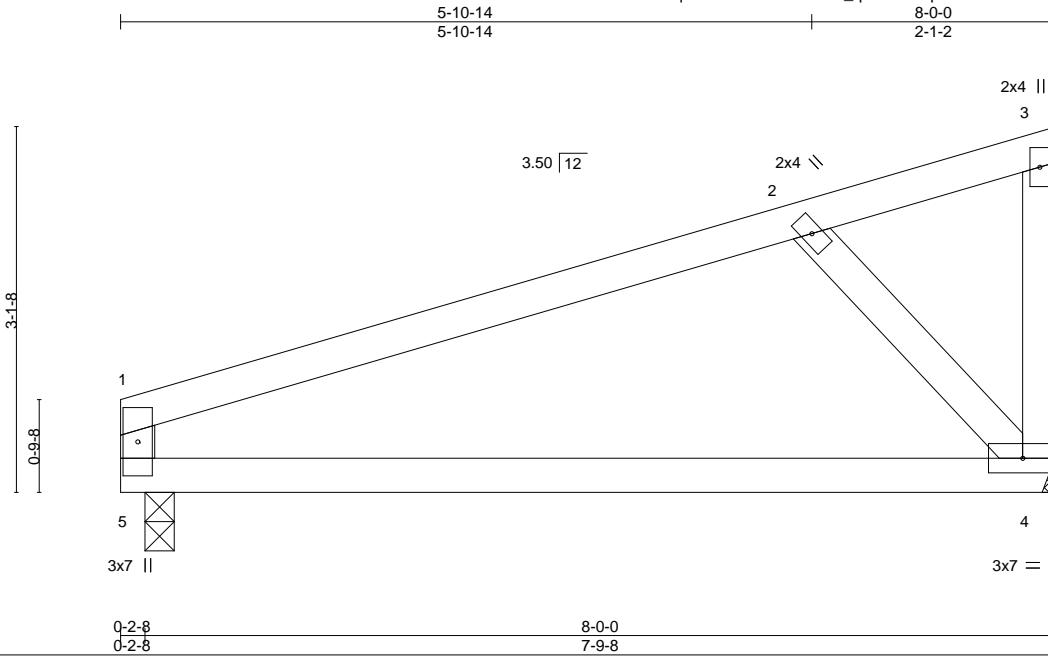


Job 28586-28586A	Truss M7	Truss Type Monopitch	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	148477603
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:05 2021 Page 1

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Scale = 1:19.7

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 0.46	Vert(LL)	-0.13 4-5	>735	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.25 4-5	>371	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-0, 4=Mechanical
 Max Horz 5=96(LC 7)
 Max Uplift 5=27(LC 6), 4=42(LC 10)
 Max Grav 5=308(LC 1), 4=308(LC 1)

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

TOP CHORD 1-2=-308/119
 BOT CHORD 4-5=-81/253
 WEBS 2-4=-345/203

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph 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
- 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) 5, 4.



October 25, 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 28586-28586A	Truss P1E	Truss Type Common Structural Gable	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477604
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84 Components (Dunn), Dunn, NC - 28334,

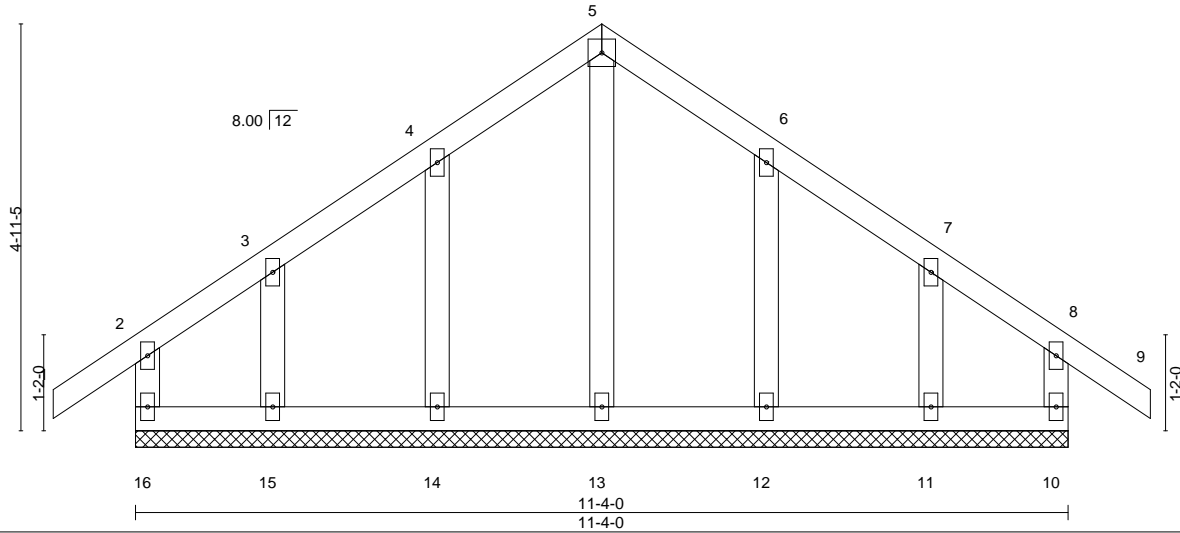
8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:07 2021 Page 1

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4x4 =

Scale = 1:28.0



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 0.09	Vert(LL)	-0.00	9	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	9	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 64 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 6-0-0 oc bracing.

REACTIONS. All bearings 11-4-0.
 (lb) - Max Horz 16=123(LC 9)
 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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph 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.
- 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.



October 25, 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

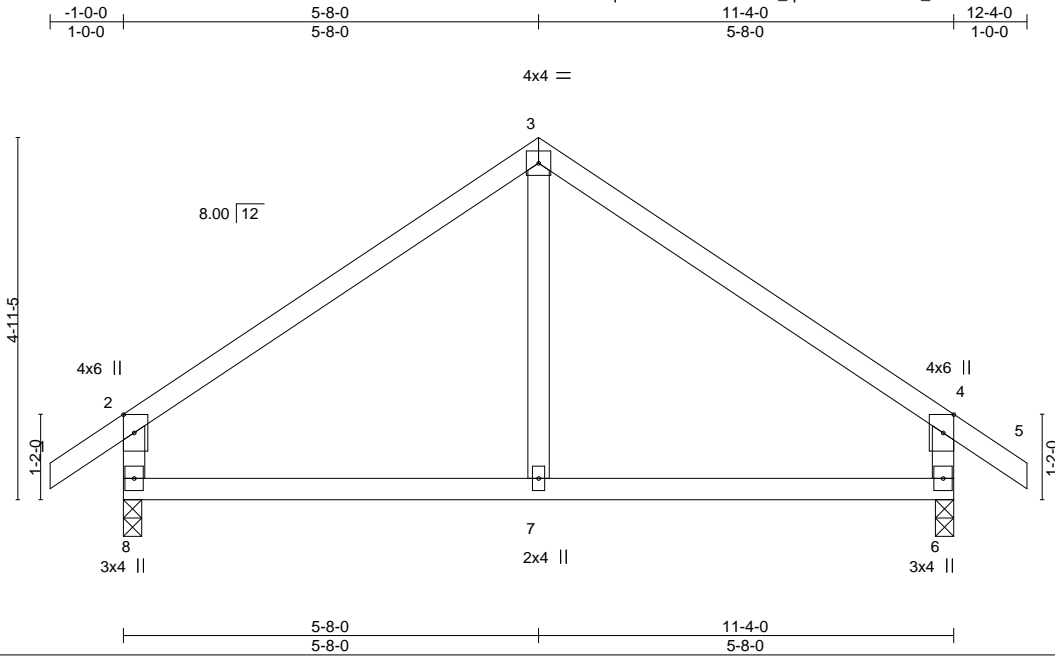
Job 28586-28586A	Truss P2	Truss Type Common	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477605
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:13 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-40fVUfhI32EI_de72PMoDm0U3LBXdGmzBBY?iMyR9?K



Scale = 1:31.4

Plate Offsets (X, Y)--	[2:0-3-0,Edge], [4:0-3-0,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 0.66	Vert(LL) -0.03 6-7 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.06 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 50 lb	FT = 20%

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

REACTIONS. (size) 8=0-3-0, 6=0-3-0
 Max Horz 8=123(LC 9)
 Max Uplift 8=-36(LC 10), 6=-36(LC 11)
 Max Grav 8=510(LC 1), 6=510(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-435/86, 3-4=-435/86, 2-8=-445/134, 4-6=-445/134
 BOT CHORD 7-8=0/285, 6-7=0/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



October 25, 2021

Job 28586-28586A	Truss P3G	Truss Type COMMON GIRDER	Qty 1	Ply 2	10 PRINCE PLACE - ROOF Job Reference (optional)	148477606
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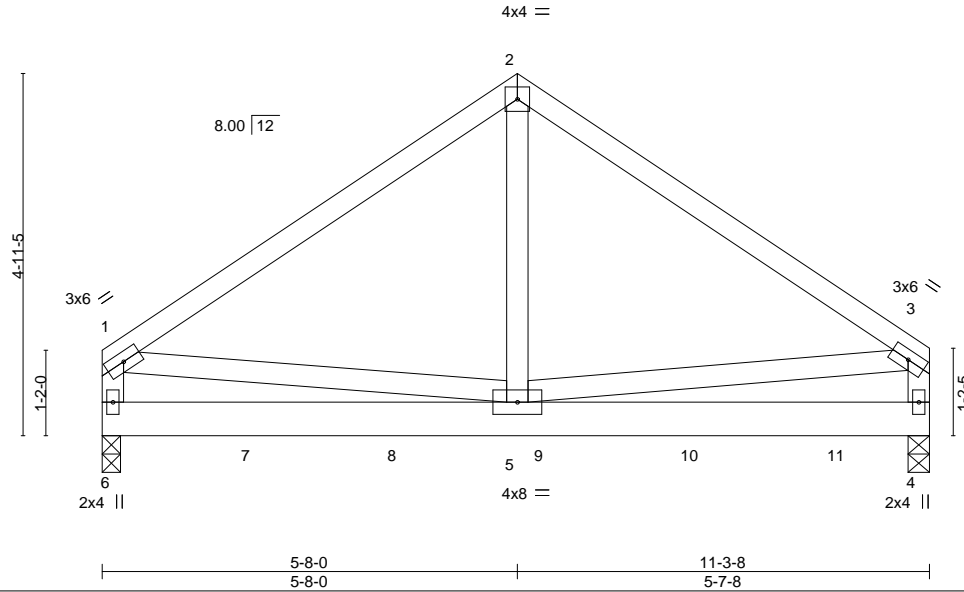
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:16 2021 Page 1

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Scale = 1:31.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.01 4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.03 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 141 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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) 6=0-3-0, 4=0-3-8
 Max Horz 6=104(LC 24)
 Max Grav 6=1083(LC 1), 4=1189(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1119/0, 2-3=-1119/0, 1-6=-825/0, 3-4=-826/0
 BOT CHORD 5-6=-72/338, 4-5=-16/289
 WEBS 2-5=0/824, 1-5=0/596, 3-5=0/588

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 278 lb down at 2-0-12, 278 lb down at 4-0-12, 278 lb down at 6-0-12, and 278 lb down at 8-0-12, and 278 lb down at 10-0-12 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: 1-2=-60, 2-3=-60, 4-6=-20
 Concentrated Loads (lb)
 Vert: 7=-278(F) 8=-278(F) 9=-278(F) 10=-278(F) 11=-278(F)



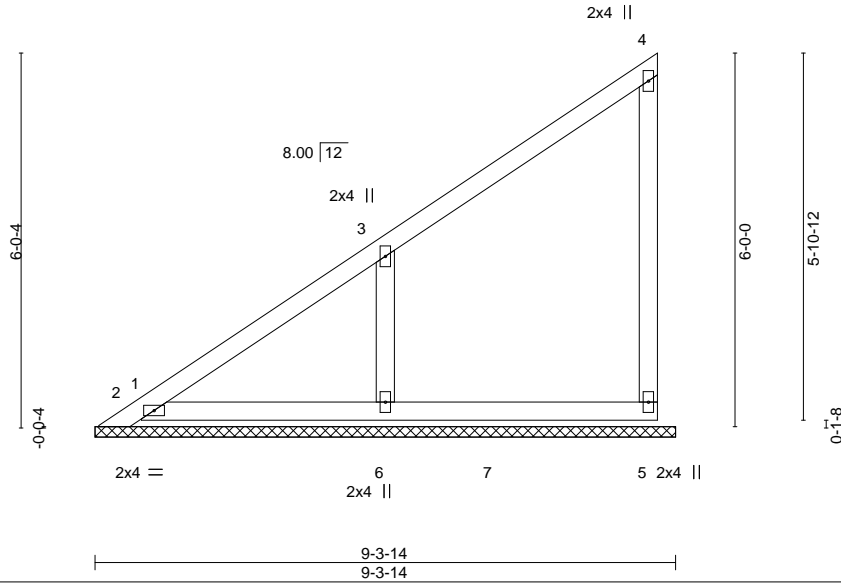
October 25, 2021

Job 28586-28586A	Truss PB1	Truss Type Piggyback	Qty 7	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477607
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:18 2021 Page 1
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Scale = 1:37.0



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 0.44	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 0.07	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 40 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 9-3-14.
 (lb) - Max Horz 1=181(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 2 except 1=160(LC 17), 6=109(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=283(LC 17), 6=433(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-299/180

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph 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
 - 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.
 - 5) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 1=160, 6=109.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 25, 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

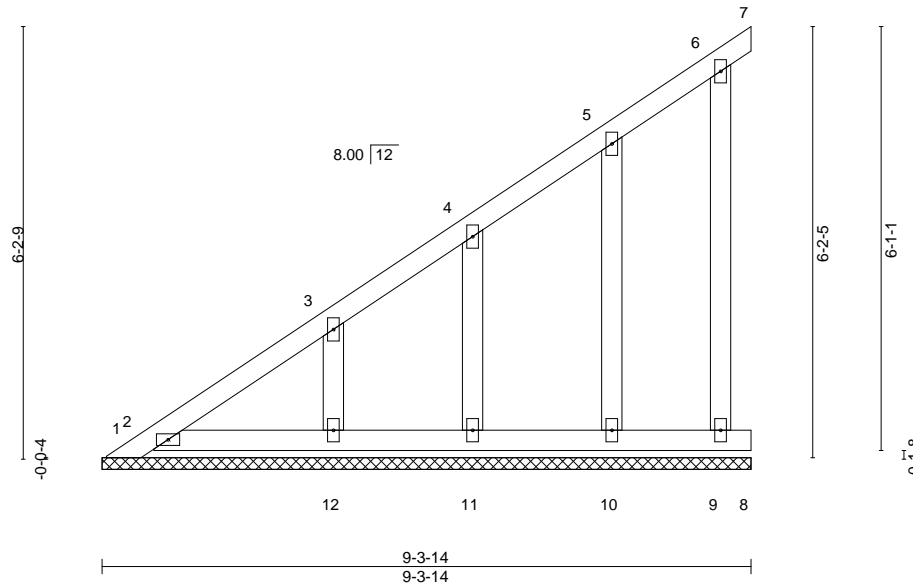
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss PB1GE	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477608
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:20 2021 Page 1
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Scale = 1:33.1



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 0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 50 lb	FT = 20%

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

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

REACTIONS. All bearings 9-3-14.
(lb) - Max Horz 1=186(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 7, 9, 2, 8, 10, 11, 12 except 1=106(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 2, 10, 11, 12

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Bearing at joint(s) 1, 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9, 2, 8, 10, 11, 12 except (jt=lb) 1=106.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 25, 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



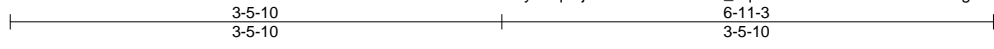
818 Soundside Road
Edenton, NC 27932

Job 28586-28586A	Truss V1	Truss Type Valley	Qty 1	Ply 1	10 PRINCE PLACE - ROOF 148477609
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84 Components (Dunn), Dunn, NC - 28334,

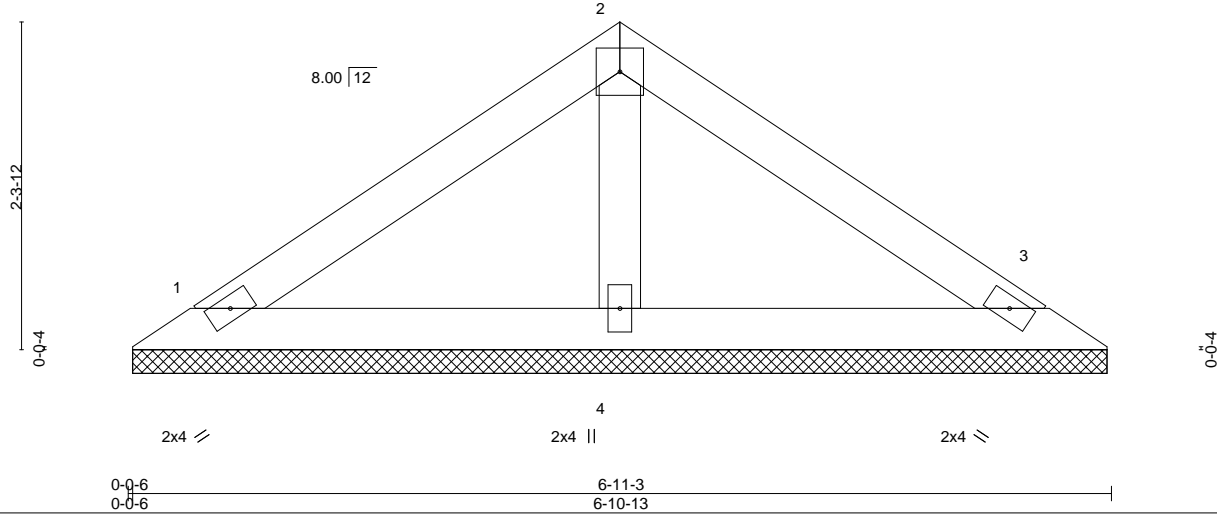
8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:21 2021 Page 1

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4x4 =

Scale = 1:16.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 23 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 1=6-10-7, 3=6-10-7, 4=6-10-7
 Max Horz 1=-42(LC 6)
 Max Uplift 1=-19(LC 10), 3=-25(LC 11)
 Max Grav 1=128(LC 1), 3=128(LC 1), 4=222(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



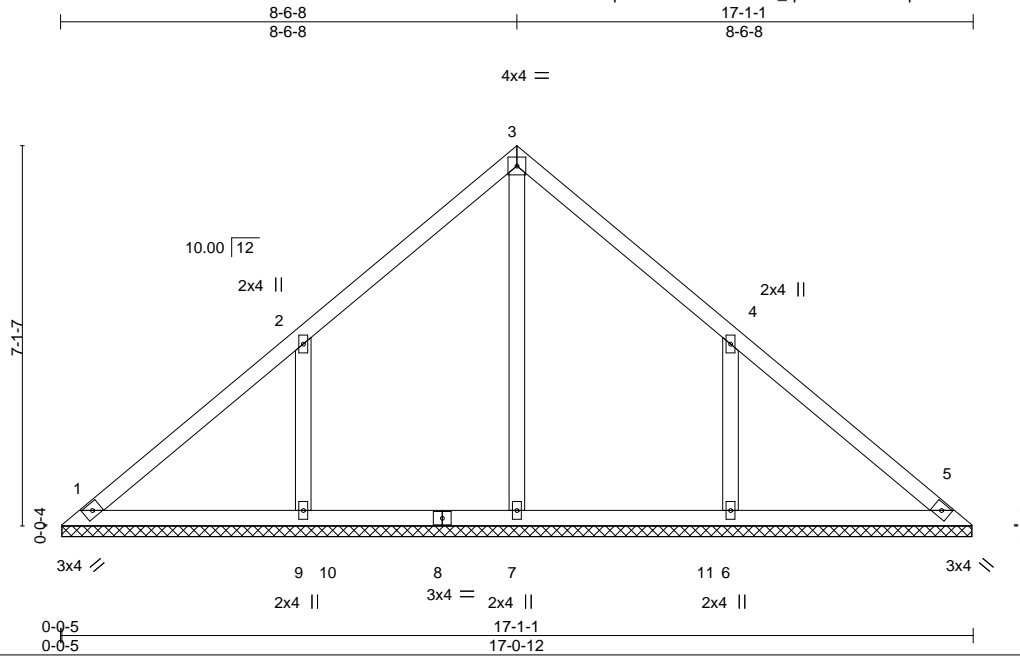
October 25, 2021

Job 28586-28586A	Truss V3	Truss Type Valley	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477610
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:22 2021 Page 1

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Scale = 1:43.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	1-10-8	TC 0.37	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 76 lb	FT = 20%
	Code IRC2015/TPI2014							

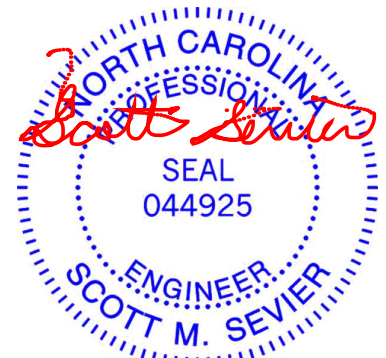
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 17-0-7.
 (lb) - Max Horz 1=-134(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-149(LC 10), 6=-149(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=337(LC 20), 9=427(LC 17), 6=427(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-291/193, 4-6=-291/193

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=149, 6=149.



October 25, 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



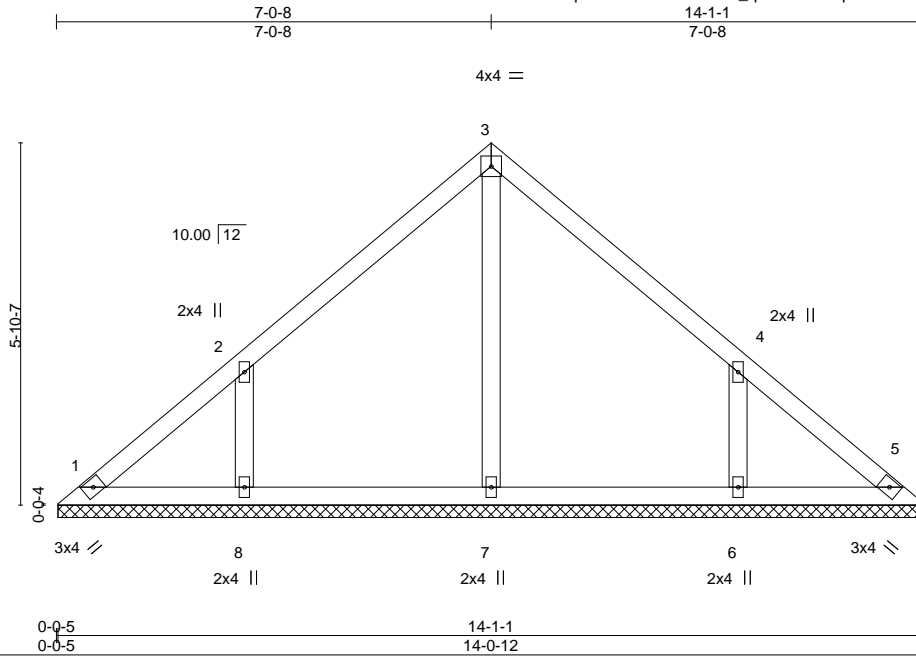
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss V4	Truss Type Valley	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477611
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:23 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-nxFHa4p0i6UtA9P2eVY8dtRHCNehzn0RUlzX2nyR9?A



Scale = 1:37.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 60 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS.

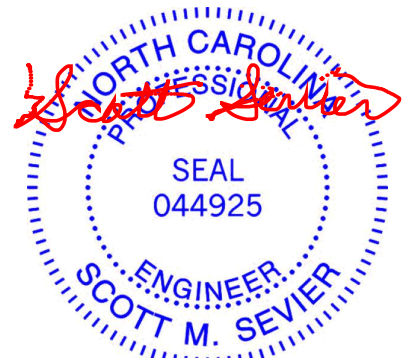
All bearings 14-0-7.
 (lb) - Max Horz 1=-117(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-133(LC 10), 6=-133(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=335(LC 17), 6=335(LC 18)

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

WEBS 2-8=-260/174, 4-6=-260/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=133, 6=133.



October 25, 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



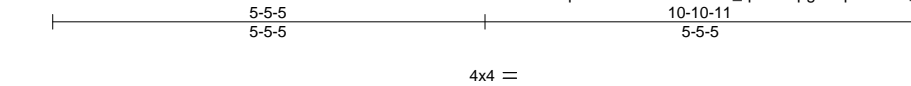
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss V5	Truss Type Valley	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	I48477612
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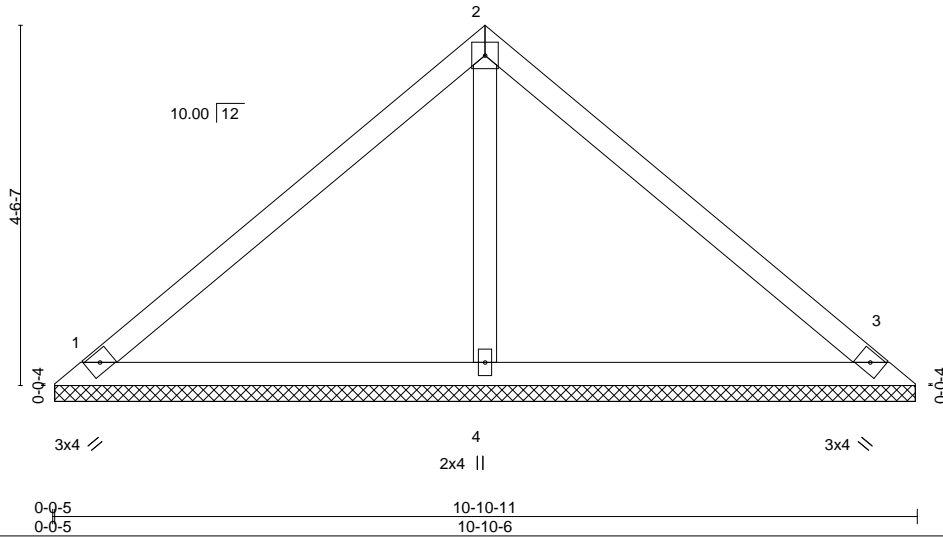
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:24 2021 Page 1

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Scale = 1:29.0



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 0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 42 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=10-10-1, 3=10-10-1, 4=10-10-1
 Max Horz 1=-89(LC 6)
 Max Uplift 1=-21(LC 11), 3=-32(LC 11)
 Max Grav 1=211(LC 1), 3=211(LC 1), 4=384(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 25, 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 28586-28586A	Truss V6	Truss Type GABLE	Qty 1	Ply 1	10 PRINCE PLACE - ROOF Job Reference (optional)	148477613
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84 Components (Dunn), Dunn, NC - 28334,

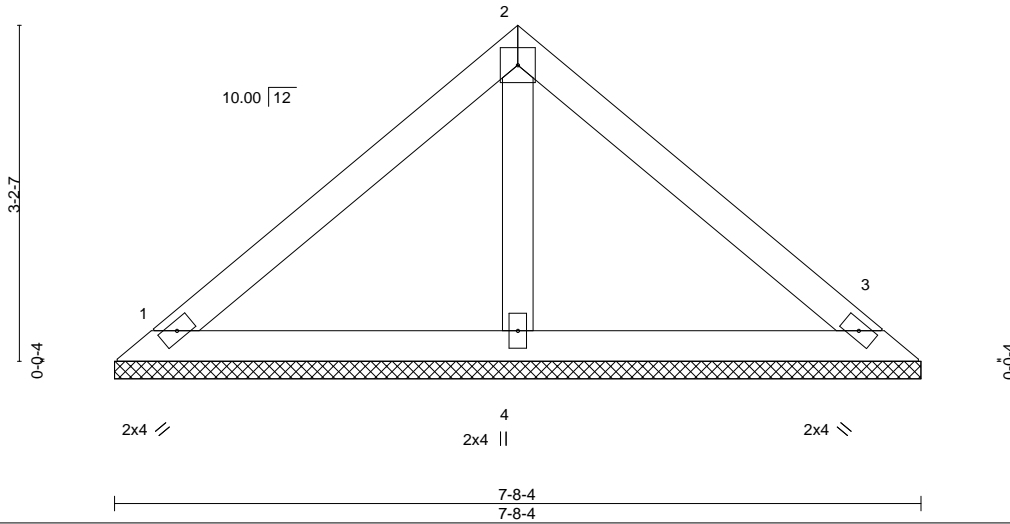
8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:24 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-F7pgoQqfTQckoJ_ECD3N94_RhnxaifCajPi4aEyR979



4x4 =

Scale = 1:22.0



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 0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	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=7-8-4, 3=7-8-4, 4=7-8-4
 Max Horz 1=60(LC 6)
 Max Uplift 1=22(LC 11), 3=29(LC 11)
 Max Grav 1=156(LC 1), 3=156(LC 1), 4=238(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 25, 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



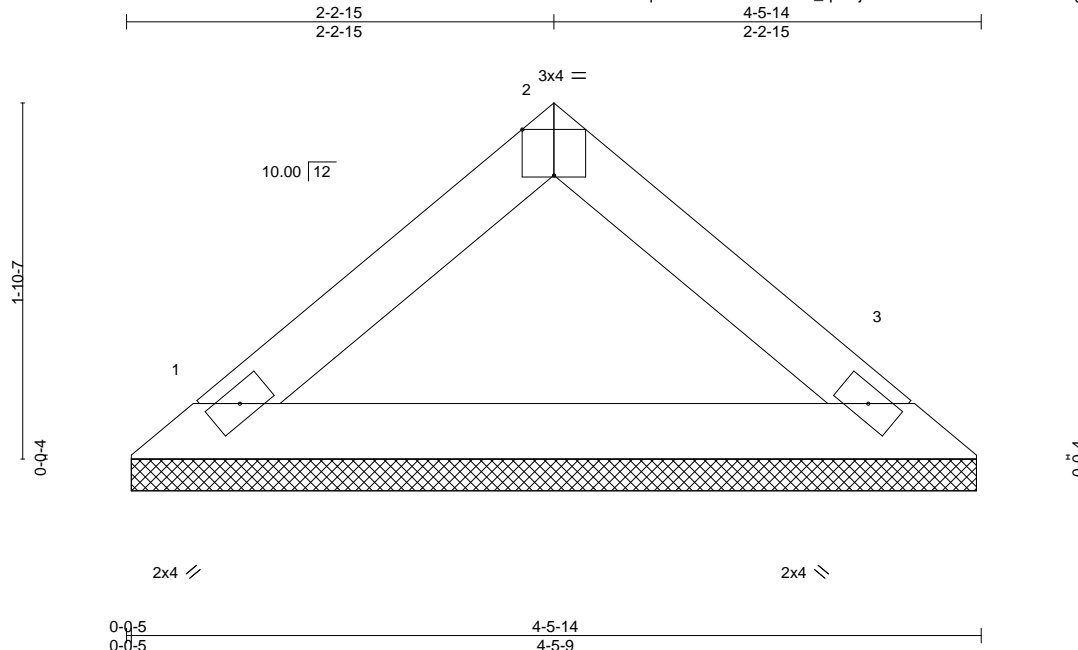
818 Soundside Road
 Edenton, NC 27932

Job 28586-28586A	Truss V7	Truss Type Valley	Qty 1	Ply 1	10 PRINCE PLACE - ROOF	148477614
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:25:25 2021 Page 1

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-jN2?mrHEkqbQTZQlwacilWgtBGdRi0kx3Se7gyR9?8



Scale: 1"=1'

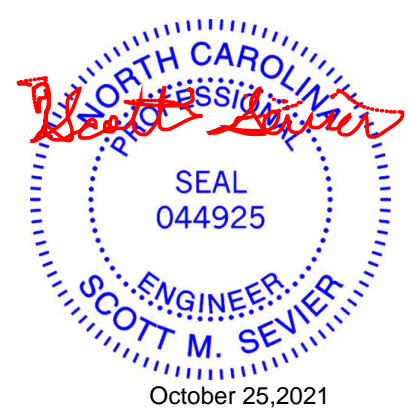
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-5-4, 3=4-5-4
 Max Horz 1=-32(LC 6)
 Max Uplift 1=-5(LC 10), 3=-5(LC 11)
 Max Grav 1=147(LC 1), 3=147(LC 1)

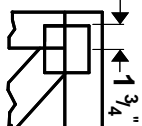
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

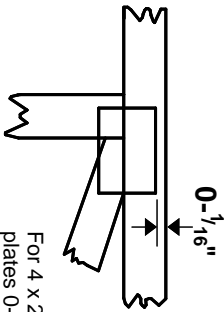


Symbols

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

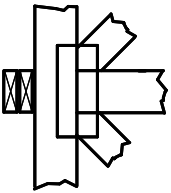
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



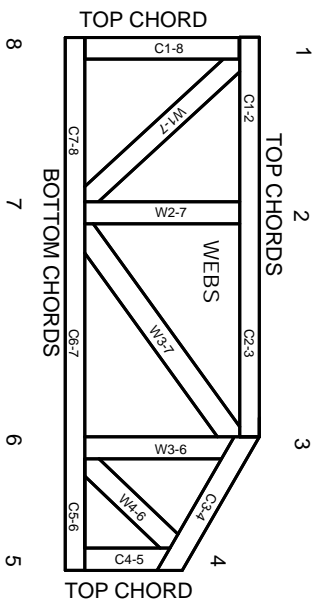
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.