Job	Truss	Truss Type	Qty	Ply	PB &S OFFICE BLDG
21090758	A1	Truss	27	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, JAMEY PRICE — Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Wed Sep 08 16:43:17 — Page: 1

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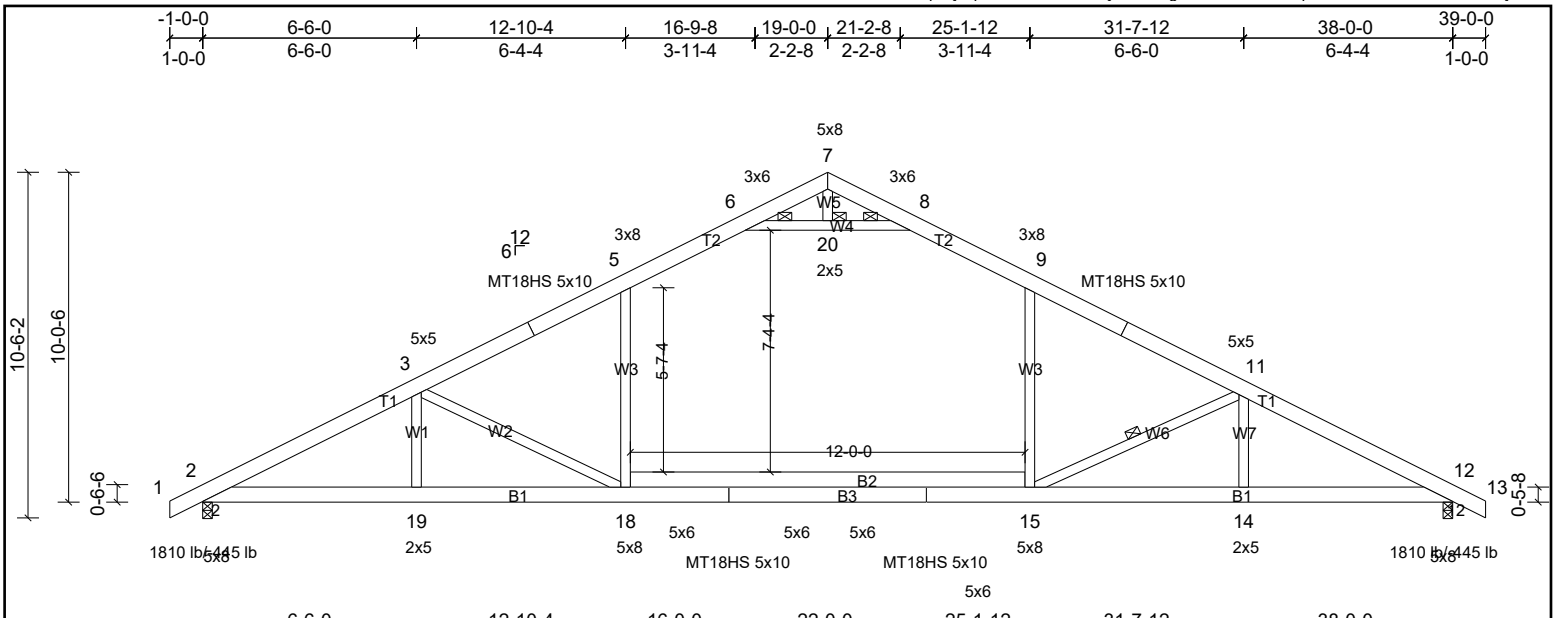

Plate Offsets (X, Y): [2:0-8-4,0-1-0], [12:0-8-4,0-1-0], [15:0-1-8,0-2-0], [18:0-1-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.62	15-18	>732	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-1.01	15-18	>453	180	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH		Attic	-0.29	15-18	>517	360	Weight: 278 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP SS *Except* T1:2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* B3,B2:2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-6-1 oc bracing.
WEBS	1 Row at midpt 11-15, 6-20, 8-20
JOINTS	1 Brace at Jt(s): 20

REACTIONS (lb/size) 2=1641/0-3-8, (min. 0-2-2), 12=1641/0-3-8, (min. 0-2-2)
Max Horiz 2=237 (LC 10)
Max Uplift 2=-445 (LC 10), 12=-445 (LC 11)
Max Grav 2=1810 (LC 2), 12=1810 (LC 2)

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

TOP CHORD	2-27=-3513/795, 3-27=-3413/815, 3-4=-2903/657, 4-5=-2775/669, 5-28=-2319/664, 6-28=-2234/689, 6-7=-197/1125, 7-8=-198/1125, 8-29=-2235/690, 9-29=-2320/664, 9-10=-2771/667, 10-11=-2901/655, 11-30=-3427/822, 12-30=-3525/803
BOT CHORD	2-19=-844/3139, 18-19=-844/3139, 17-18=-314/2409, 16-17=-314/2409, 15-16=-314/2409, 14-15=-618/3152, 12-14=-618/3152
WEBS	3-19=-75/251, 9-15=-38/987, 5-18=-42/997, 3-18=-1022/597, 11-15=-1029/603, 6-20=-3732/912, 8-20=-3732/912, 7-20=-33/253

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-9-10, Interior (1) 2-9-10 to 15-2-6, Exterior (2) 15-2-6 to 22-9-10, Interior (1) 22-9-10 to 35-2-6, Exterior (2) 35-2-6 to 39-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-20, 8-20
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-18
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 2 and 445 lb uplift at joint 12.
9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	PB &S OFFICE BLDG
21090758	A1G	Truss	2	1	Job Reference (optional)

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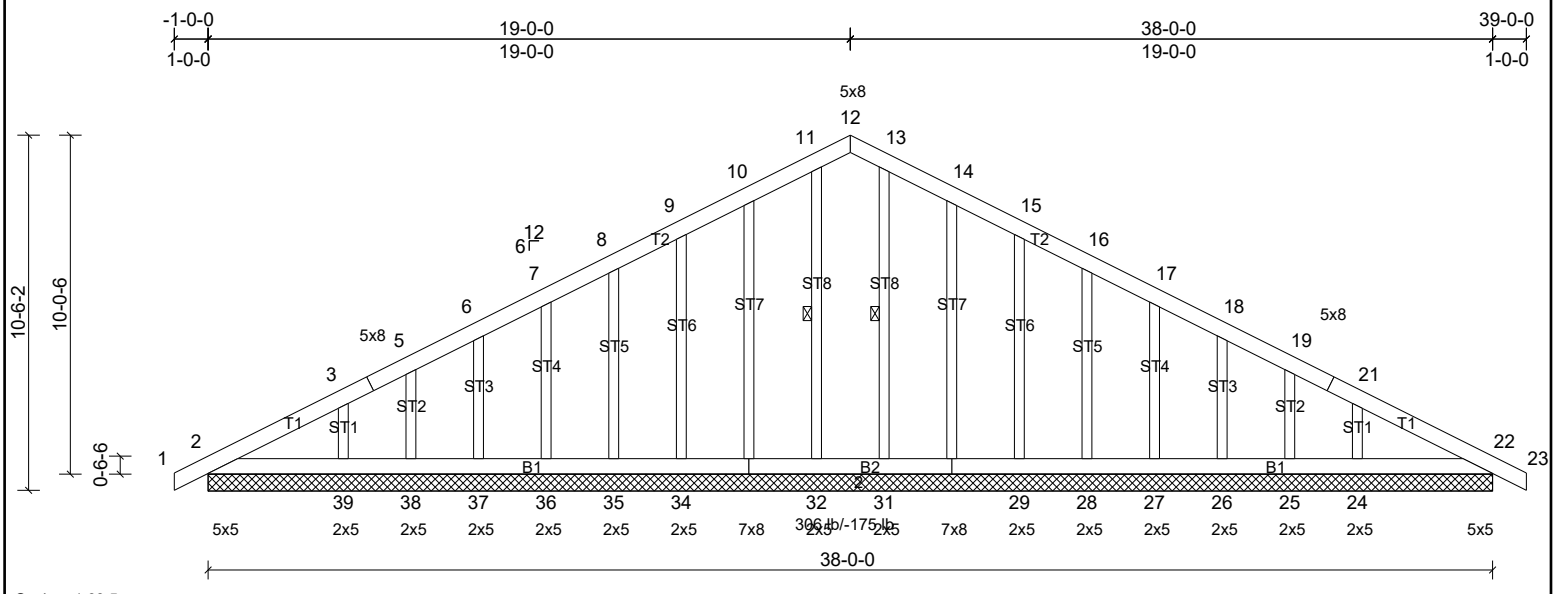

Scale = 1:68.5

Plate Offsets (X, Y): [12:0-4-0,Edge], [30:0-4-0,0-4-8], [33:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH							Weight: 317 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 11-32, 13-31

REACTIONS All bearings 38-0-0.

(lb) - Max Horiz 2=237 (LC 10), 40=237 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 22, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 40, 43 except 24=-173 (LC 11), 30=-107 (LC 11), 33=-103 (LC 10), 39=-175 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 22, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 43 except 24=307 (LC 22), 39=307 (LC 21)

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

TOP CHORD 2-46=-280/84, 3-46=-271/104, 9-47=-108/309, 10-47=-97/313, 10-11=-134/421, 11-12=-125/410, 12-13=-125/410, 13-14=-134/421, 14-48=-97/313, 15-48=-108/309

BOT CHORD 2-39=-64/289, 38-39=-64/289, 37-38=-64/289, 36-37=-64/289, 35-36=-64/289, 34-35=-64/289, 33-34=-64/289, 32-33=-64/289, 31-32=-64/289, 30-31=-64/289, 29-30=-64/289, 28-29=-64/289, 27-28=-64/289, 26-27=-64/289, 25-26=-64/289, 24-25=-64/289, 22-24=-64/289

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-9-10, Exterior (2) 2-9-10 to 15-2-6, Corner (3) 15-2-6 to 22-9-10, Exterior (2) 22-9-10 to 35-2-6, Corner (3) 35-2-6 to 39-0-0 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.
4) All plates are 3x3 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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) 2, 34, 35, 36, 37, 38, 29, 28, 27, 26, 25, 22, 2, 22 except (jt=lb) 33=102, 39=175, 30=106, 24=172.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	PB &S OFFICE BLDG
21090758	A2	Truss	1	**2**	Job Reference (optional)

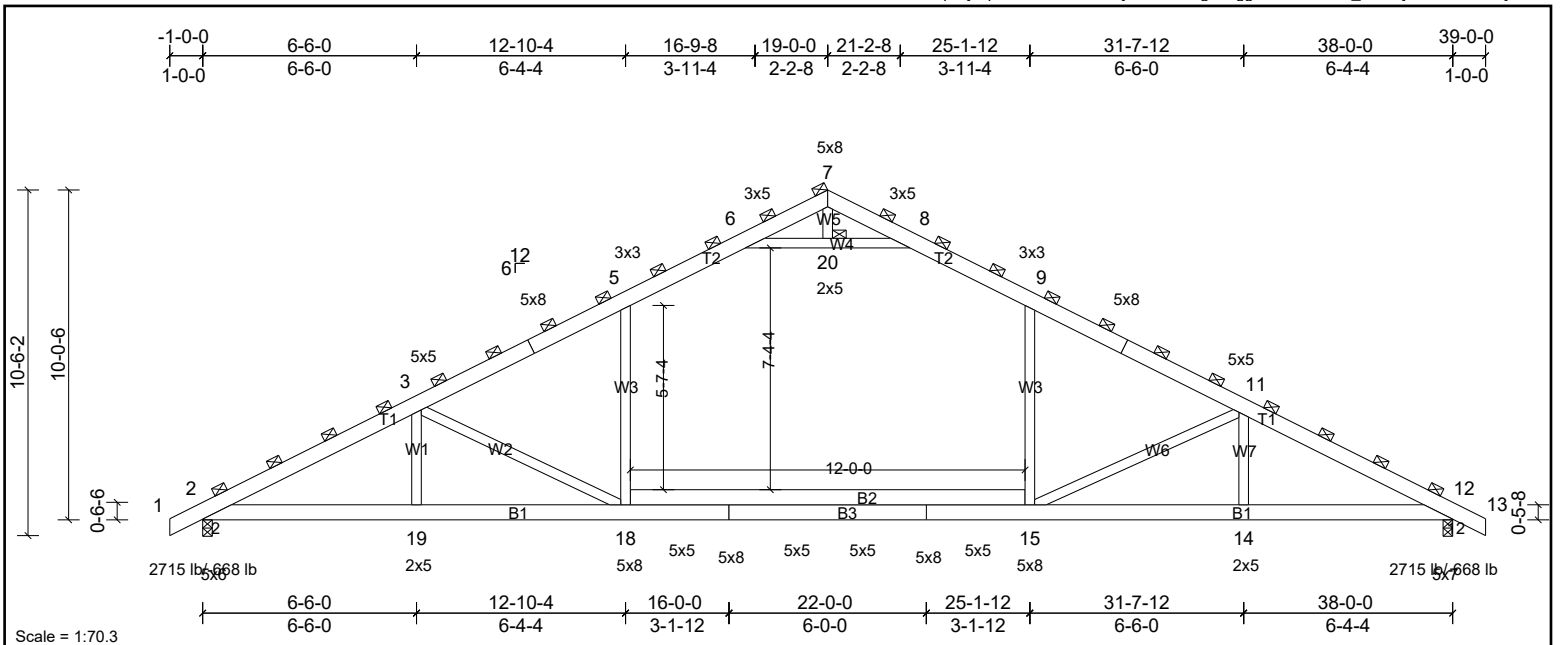

Plate Offsets (X, Y): [2:0-6-4,0-0-8], [12:0-7-0,0-0-8], [15:0-1-8,0-2-8], [18:0-1-8,0-2-8]

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.48	15-18	>946	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.78	15-18	>586	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH		Attic	-0.23	15-18	>637	360	Weight: 556 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP SS *Except* T1:2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	2-0-0 oc purlins (4-3-12 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 7, 20

REACTIONS (lb/size) 2=2462/0-3-8, (min. 0-1-10), 12=2462/0-3-8, (min. 0-1-10)
Max Horiz 2=356 (LC 10)
Max Uplift 2=-668 (LC 10), 12=-668 (LC 11)
Max Grav 2=2715 (LC 2), 12=2715 (LC 2)

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

TOP CHORD	2-27=-5265/1190, 3-27=-5115/1220, 3-4=-4353/987, 4-5=-4161/1005, 5-28=-3480/997, 6-28=-3351/1036, 6-7=-302/1704, 7-8=-305/1702, 8-29=-3353/1036, 9-29=-3481/998, 9-10=-4154/1002, 10-11=-4350/984, 11-30=-5136/1229, 12-30=-5283/1201
BOT CHORD	2-19=-1262/4701, 18-19=-1262/4701, 17-18=-472/3615, 16-17=-472/3615, 15-16=-472/3615, 14-15=-924/4721, 12-14=-924/4721
WEBS	11-14=-95/371, 3-19=-100/370, 9-15=-48/1472, 5-18=-55/1487, 3-18=-1524/890, 11-15=-1534/900, 6-20=-5617/1375, 8-20=-5617/1375, 7-20=-50/381

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-9-10, Interior (1) 2-9-10 to 15-2-6, Exterior (2) 15-2-6 to 22-9-10, Interior (1) 22-9-10 to 35-2-6, Exterior (2) 35-2-6 to 39-0-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-20, 8-20
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-18
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 668 lb uplift at joint 2 and 668 lb uplift at joint 12.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard