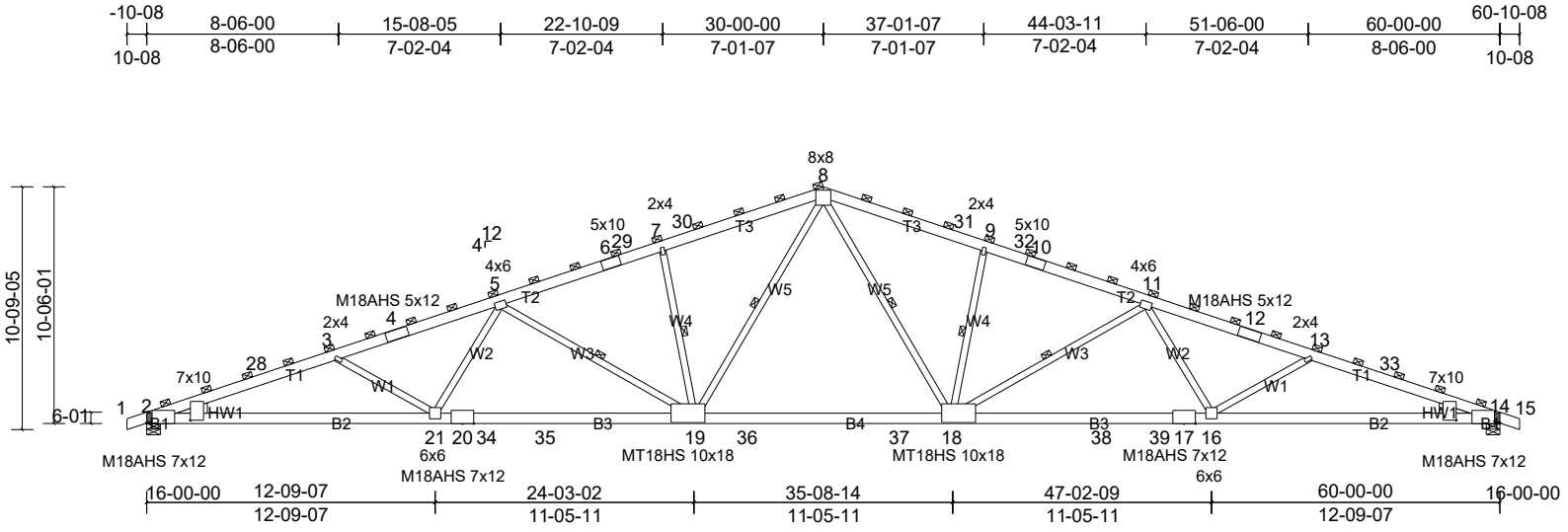
Job	Truss	Truss Type	Qty	Ply	GENOA BAPTIST CHURCH
244532-01	A	Common	24	1	Job Reference (optional)



Scale = 1:101.3

Plate Offsets (X, Y): [2:2-14,Edge], [2:1-08,1-11-04], [14:2-14,Edge], [14:1-08,1-11-04]

Loading	(psf)	Spacing	4-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-1.18	18-19	>608	360	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.59	18-19	>453	240	M18AHS	186/179
TCDL	5.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.42	14	n/a	n/a	MT18HS	197/144
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	5.0										Weight: 391 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SPF No.2 *Except* W2,W1:2x4 SPF Stud
WEDGE	Left: 2x6 SPF 1650F 1.5E Right: 2x6 SPF 1650F 1.5E

BRACING

TOP CHORD	2-0-0 oc purlins (2-0-7 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS	1 Row at midpt 5-19, 7-19, 8-19, 8-18, 9-18, 11-18

REACTIONS (lb/size) 2=4305/(7-04 + bearing block), (req. 7-06), 14=4305/(7-04 + bearing block), (req. 7-06)
Max Horiz 2=329 (LC 15)
Max Uplift 2=-1279 (LC 16), 14=-1279 (LC 16)
Max Grav 2=4687 (LC 24), 14=4687 (LC 25)

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

TOP CHORD 2-28=-12368/4595, 3-28=-12311/4608, 3-4=-11559/4191, 4-5=-11447/4209, 5-6=-9033/3450, 6-29=-8886/3456, 7-29=-8839/3464, 7-30=-8907/3544, 8-30=-8796/3568, 8-31=-8796/3568, 9-31=-8907/3544, 9-32=-8839/3464, 10-32=-8886/3456, 10-11=-9033/3450, 11-12=-11447/4209, 12-13=-11559/4191, 13-33=-12313/4608, 14-33=-12369/4595

BOT CHORD 2-21=-4188/11954, 20-21=-3516/10362, 20-34=-3516/10362, 34-35=-3516/10362, 19-35=-3516/10362, 19-36=-2144/6946, 36-37=-2144/6946, 18-37=-2144/6946, 18-38=-3516/10211, 38-39=-3516/10211, 17-39=-3516/10211, 16-17=-3516/10211, 14-16=-4189/11709

WEBS 5-21=-259/1392, 3-21=-1173/664, 5-19=-2174/907, 7-19=-1320/583, 8-19=-1031/3168, 8-18=-1031/3168, 9-18=-1320/583, 11-18=-2174/907, 11-16=-259/1393, 13-16=-1173/664

NOTES

1) 2x6 SP 2400F 2.0E bearing block 12" long at jt. 2 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.2.
2) 2x6 SP 2400F 2.0E bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SPF No.2.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=60ft; eave=7ft; Cat. I; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 5-1-8, Interior (1) 5-1-8 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior (1) 36-0-0 to 60-10-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=0.8; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
9) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.

Continued on page 2

10) All plates are MT20 plates unless otherwise indicated.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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, with BCDL = 5.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1279 lb uplift at joint 2 and 1279 lb uplift at joint 14.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	GENOA BAPTIST CHURCH
244532-01	AGE	Common Supported Gable	2	1	Job Reference (optional)

Trusco, Doylestown, OH 44230, Justin Guzman — Run: 8.81 S May 16 2024 Print: 8.810 S May 16 2024 MiTek Industries, Inc. Mon Dec 09 09:36:39 — Page: 1

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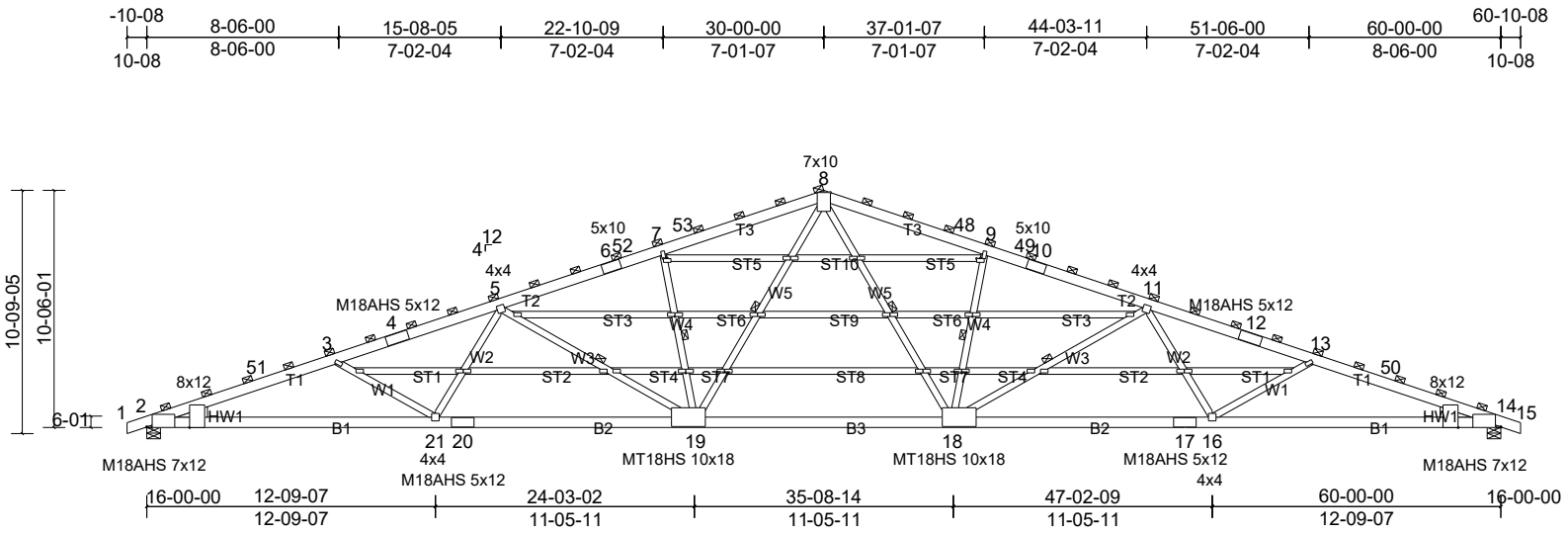

Scale = 1:101.3

Plate Offsets (X, Y): [2:2-14,Edge], [2:0-04,Edge], [14:2-14,Edge], [14:0-04,Edge], [25:1-09,1-00], [28:1-09,1-00], [32:1-09,1-00], [37:1-09,1-00], [39:2-00,0-04], [40:2-00,0-04]

Loading	(psf)	Spacing	4-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.94	18-19	>765	360	M18AHS	186/179
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.37	18-19	>527	240	MT20	197/144
TCDL	5.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.41	14	n/a	n/a	MT18HS	197/144
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	5.0										Weight: 472 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E *Except* B3:2x6 SPF 1650F 1.5E
WEBS	2x4 SPF No.2 *Except* W2,W1:2x4 SPF Stud
OTHERS	2x4 SPF Stud *Except* ST8,ST3:2x4 SPF No.2
WEDGE	Left: 2x6 SPF 1650F 1.5E Right: 2x6 SPF 1650F 1.5E

BRACING

TOP CHORD	2-0-0 oc purlins (2-4-13 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS	1 Row at midpt 5-19, 7-19, 8-19, 8-18, 9-18, 11-18

REACTIONS (lb/size) 2=4305/7-04, (min. 6-12), 14=4305/7-04, (min. 6-12)
Max Horiz 2=329 (LC 15)
Max Uplift 2=-1279 (LC 16), 14=-1279 (LC 16)

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

TOP CHORD 8-48=-7882/3569, 9-48=-8025/3544, 9-49=-7940/3465, 10-49=-7999/3456, 10-11=-8184/3450, 11-12=-10310/4208, 12-13=-10449/4191, 13-50=-11301/4608, 14-50=-11372/4595, 2-51=-11372/4595, 3-51=-11301/4608, 3-4=-10449/4191, 4-5=-10310/4208, 5-6=-8184/3450, 6-52=-7999/3456, 7-52=-7940/3465, 7-53=-8025/3544, 8-53=-7882/3569

BOT CHORD 2-21=-4188/10753, 20-21=-3516/9308, 19-20=-3516/9308, 18-19=-2144/6295, 17-18=-3516/9308, 16-17=-3516/9308, 14-16=-4188/10753

WEBS 5-21=-259/1010, 3-21=-1173/664, 5-19=-1962/907, 7-19=-1321/584, 8-19=-1031/2901, 8-18=-1031/2901, 9-18=-1321/584, 11-18=-1962/907, 11-16=-259/1010, 13-16=-1173/664

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=60ft; eave=7ft; Cat. I; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 5-1-8, Interior (1) 5-1-8 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior (1) 36-0-0 to 60-10-8 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=0.8; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
8) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
9) All plates are MT20 plates unless otherwise indicated.
10) All plates are 2x4 MT20 unless otherwise indicated.
11) Horizontal gable studs spaced at 2-6-0 oc.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 4

13) * 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.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1279 lb uplift at joint 14 and 1279 lb uplift at joint 2.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard