



RE: 201026
201026-Skytor-Ralston-Bldg 1 - Type 14

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Customer: Project Name: 201026
Lot/Block:
Address:
City:

Model:
Subdivision:
State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

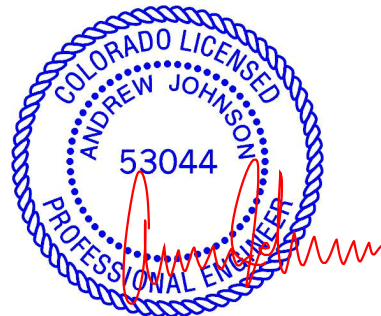
Design Code: IRC2018/TPI2014
Wind Code: ASCE 7-16
Roof Load: 55.0 psf

Design Program: MiTek 20/20 8.5
Wind Speed: 136 mph
Floor Load: 55.0 psf

This package includes 42 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I47314770	B01	8/6/2021	21	I47314790	C04	8/6/2021
2	I47314771	B01E	8/6/2021	22	I47314791	C04E	8/6/2021
3	I47314772	B02	8/6/2021	23	I47314792	C05	8/6/2021
4	I47314773	B03	8/6/2021	24	I47314793	C05E	8/6/2021
5	I47314774	B04	8/6/2021	25	I47314794	C06E	8/6/2021
6	I47314775	B04E	8/6/2021	26	I47314795	CV01	8/6/2021
7	I47314776	B05	8/6/2021	27	I47314796	CV02	8/6/2021
8	I47314777	B07E	8/6/2021	28	I47314797	CV03	8/6/2021
9	I47314778	B08	8/6/2021	29	I47314798	FB01	8/6/2021
10	I47314779	B09	8/6/2021	30	I47314799	FB02	8/6/2021
11	I47314780	BV01	8/6/2021	31	I47314800	FB03	8/6/2021
12	I47314781	BV02	8/6/2021	32	I47314801	FB04	8/6/2021
13	I47314782	BV03	8/6/2021	33	I47314802	FB06	8/6/2021
14	I47314783	C01	8/6/2021	34	I47314803	FB07	8/6/2021
15	I47314784	C01A	8/6/2021	35	I47314804	FC02	8/6/2021
16	I47314785	C01E	8/6/2021	36	I47314805	FC03	8/6/2021
17	I47314786	C02	8/6/2021	37	I47314806	FC04	8/6/2021
18	I47314787	C02E	8/6/2021	38	I47314807	FC05	8/6/2021
19	I47314788	C03	8/6/2021	39	I47314808	FC06	8/6/2021
20	I47314789	C03E	8/6/2021	40	I47314809	FC07	8/6/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by Builders Inc..
Truss Design Engineer's Name: Johnson, Andrew
My license renewal date for the state of Colorado is October 31, 2021.



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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



RE: 201026 - 201026-Skytor-Ralston-Bldg 1 - Type 14

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Project Name: 201026

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	I47314810	FC08	8/6/2021
42	I47314811	FC09	8/6/2021

Job 201026	Truss B01	Truss Type MONOPICH	Qty 16	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314770
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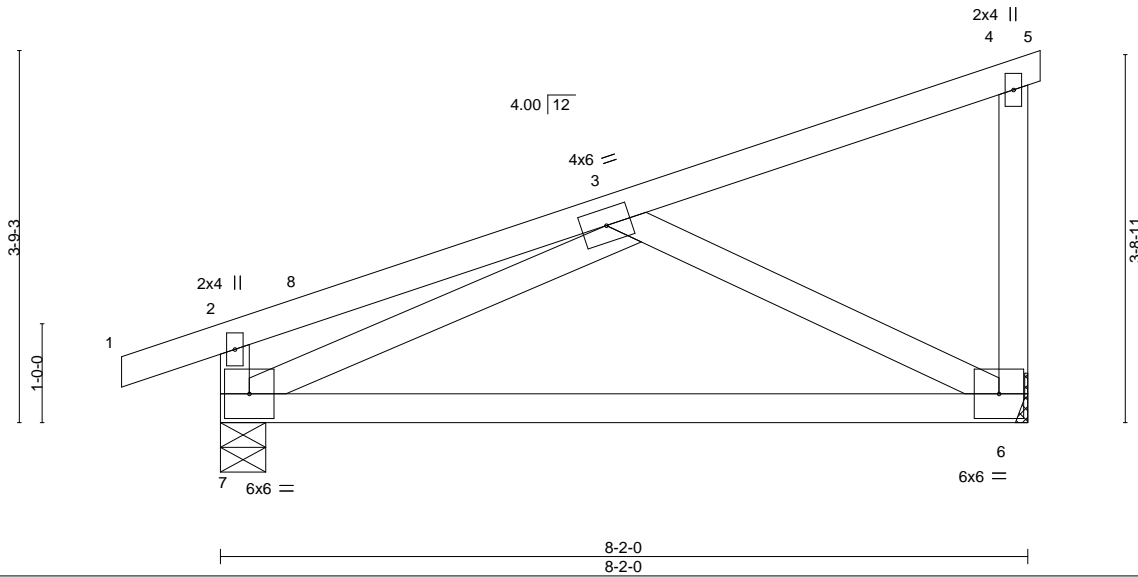
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:17 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-I03Z4Wq8jXd2l323ELETEjbxrJdcS_VrcE6cMcyrAX0



Scale = 1:23.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.23 6-7 >410 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Vert(CT) -0.46 6-7 >205 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 6 n/a n/a	Weight: 34 lb	FT = 20%
	Code IRC2018/TPI2014				

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS. (size) 6=Mechanical, 7=0-5-8
Max Horz 7=218(LC 11)
Max Uplift 6=-159(LC 14), 7=-188(LC 10)
Max Grav 6=596(LC 21), 7=654(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-281/284
BOT CHORD 6-7=-544/558
WEBS 3-6=-627/546, 3-7=-631/296

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-3-8 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
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 6 and 188 lb uplift at joint 7.
 - 9) 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.



August 5, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss B01E	Truss Type MONOPITCH SUPPORTED	Qty 8	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314771
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Builders Inc., Aurora, CO - 80011,

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ID:QS8hjBL9CIM8AxVMglothazLZKy-WYYbmFx9q?dwGlfbi1NLZPwL0XUsKdx0SU21d8yrAWu

-1-0-0	8-2-0	8-3-8
1-0-0	8-2-0	0-1-8

Scale = 1:21.8

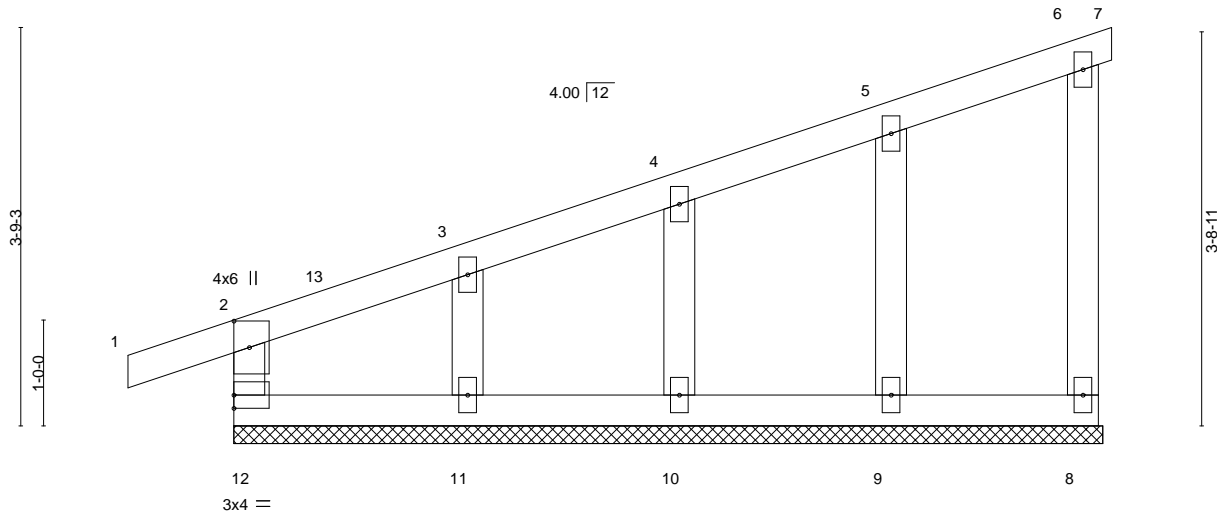


Plate Offsets (X,Y)--	[2:0-3-0,0-1-12]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.26 BC 0.19 WB 0.07	in (loc) l/defl L/d Vert(LL) 0.00 6 n/r 120 Vert(CT) 0.00 6 n/r 120 Horz(CT) 0.00 8 n/a n/a	MT20	197/144
TCDL 15.0	Rep Stress Incr YES	Matrix-R			
BCLL 0.0 *	Code IRC2018/TPI2014			Weight: 31 lb	FT = 20%
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 8-2-8.
 (lb) - Max Horz 12=218(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 9, 10 except 11=135(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 8 except 12=272(LC 20), 9=296(LC 21), 10=292(LC 21), 11=279(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-389/191, 3-4=-261/148
 WEBS 5-9=-255/260, 4-10=-253/243, 3-11=-238/382

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-2-8, Exterior(2N) 2-2-8 to 8-3-8 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 9, 10 except (jt=lb) 11=135.
 - 13) 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.



August 5, 2021

Job 201026	Truss B02	Truss Type MONOPITCH	Qty 8	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314772
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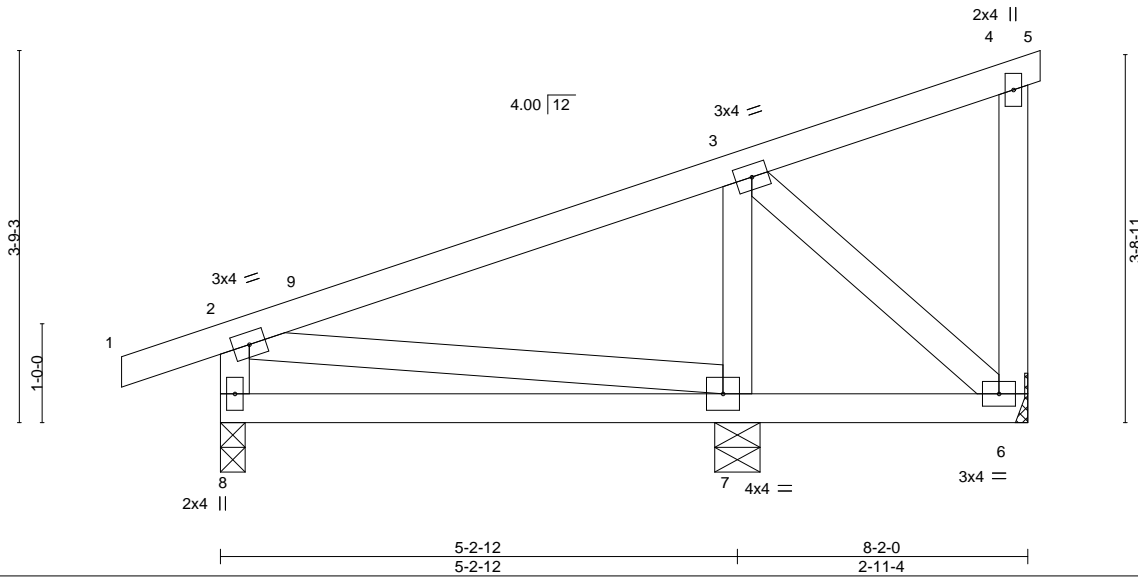
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:27 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-SxglBxyQMcteVbp_qSPpeq0d0L7roXAjvoX8i1yrAWs



Scale = 1:23.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.55 BC 0.35 WB 0.08 Matrix-MP	in (loc) l/defl L/d Vert(LL) 0.09 7-8 >704 240 Vert(CT) 0.07 7-8 >833 180 Horz(CT) -0.00 6 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 37 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.

REACTIONS. (size) 8=0-3-0, 7=0-5-8, 6=Mechanical
Max Horz 8=218(LC 13)
Max Uplift 8=247(LC 10), 7=323(LC 10), 6=133(LC 11)
Max Grav 8=429(LC 21), 7=636(LC 21), 6=186(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-387/347
BOT CHORD 7-8=-422/246
WEBS 3-7=-541/391, 3-6=-168/278

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=247, 7=323, 6=133.
 - 9) 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.



August 5, 2021

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

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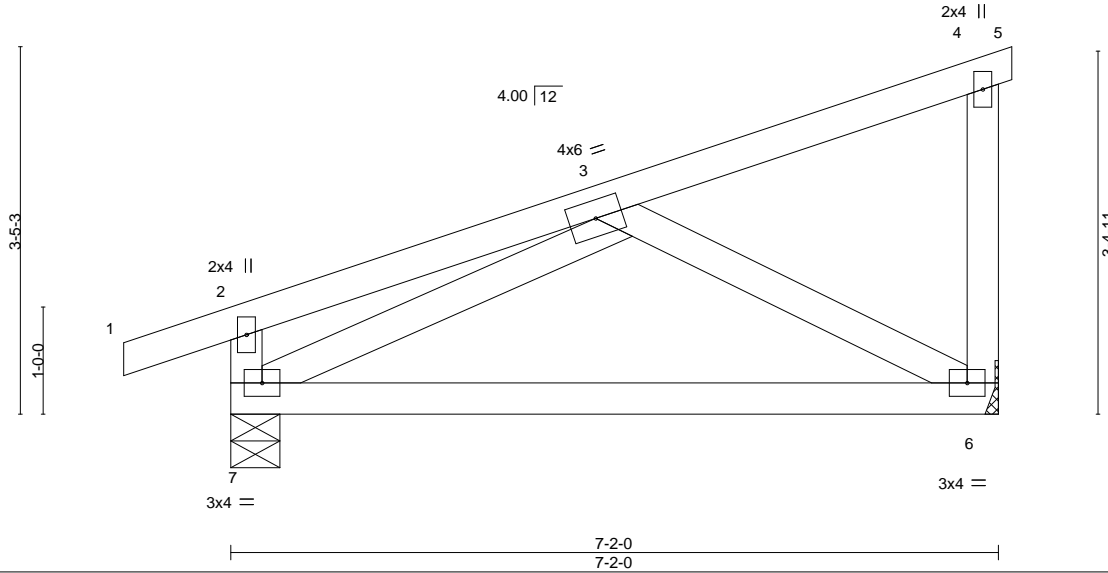
Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314773
201026	B03	MONOPICH	16	1		

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:27 2021 Page 1
 ID:QS8hjBL9C1M8AxVMglothazLZKy-SxgLBxyQMcteVbp_qSPpeq0huL4poW9JvoX8i1yrAWs



Scale = 1:21.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.13 6-7 >616 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.27 6-7 >308 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 6 n/a n/a	Weight: 31 lb	FT = 20%
	Code IRC2018/TPI2014				

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 7=0-5-8
 Max Horz 7=197(LC 11)
 Max Uplift 6=140(LC 14), 7=174(LC 10)
 Max Grav 6=524(LC 21), 7=609(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-286/281
 BOT CHORD 6-7=-482/460
 WEBS 3-6=-522/487, 3-7=-526/247

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-3-8 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
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=140, 7=174.
 - 9) 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.



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Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314774
201026	B04	Common	24	1		

Builders Inc., Aurora, CO - 80011,

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ID:QS8hjBL9CjM8AxVMglothazLZKy-PKn6cd_guD8LkvzNxtSHjF5vN8jaGGJcN60FmvyrAWq

-1-0-0	7-5-11	14-7-13	21-10-0	29-0-3	36-2-5	43-8-0	44-8-0
1-0-0	7-5-11	7-2-3	7-2-3	7-2-3	7-2-3	7-5-11	1-0-0

Scale = 1:77.1

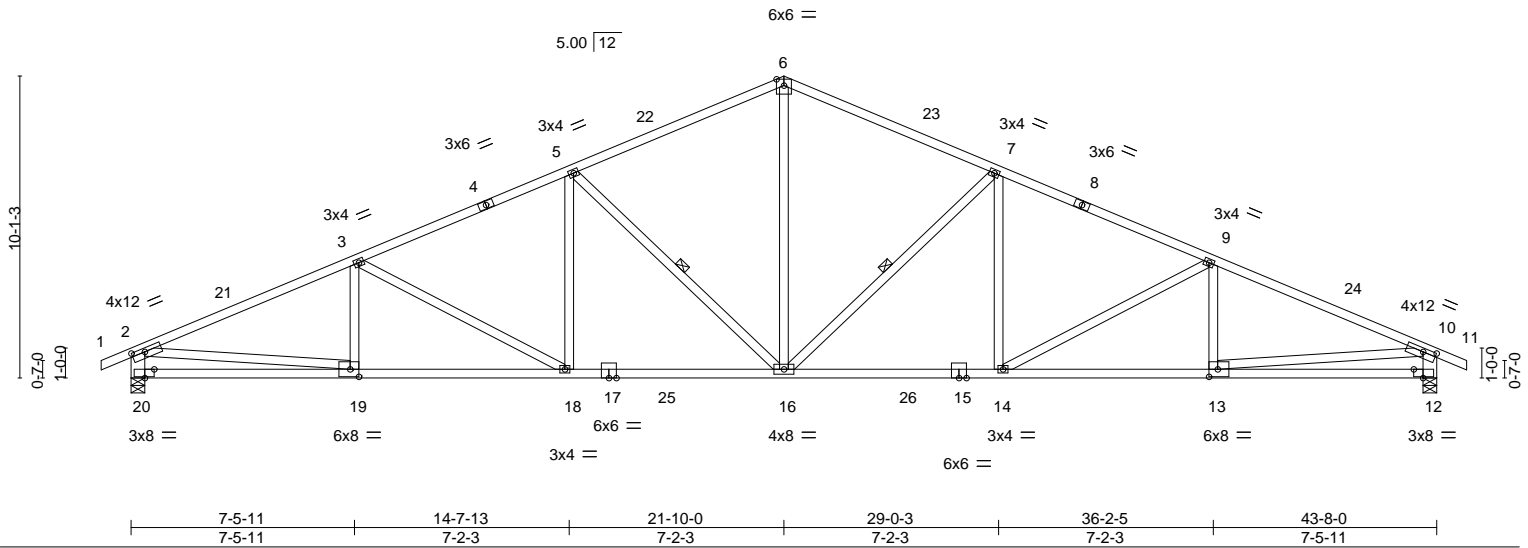


Plate Offsets (X, Y)--	[2:0-5-4,0-1-8], [10:0-5-4,0-1-8], [12:0-3-12,Edge], [13:0-3-8,0-3-0], [19:0-3-8,0-3-0], [20:0-3-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.81	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.72	Vert(LL) -0.32 16-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Vert(CT) -0.57 16-18 >912 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.17 12 n/a n/a		
				Weight: 218 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 2400F 2.0E *Except* 1-4,8-11: 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E	BOT CHORD Rigid ceiling directly applied or 7-5-14 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-20,10-12: 2x6 DF-N 1800F 1.6E	WEBS 1 Row at midpt 7-16, 5-16

REACTIONS. (size) 20=0-5-8, 12=0-5-8
 Max Horz 20=-197(LC 19)
 Max Uplift 20=-600(LC 14), 12=-600(LC 15)
 Max Grav 20=2516(LC 2), 12=2516(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4374/970, 3-5=-3918/914, 5-6=-3070/830, 6-7=-3070/830, 7-9=-3918/914,
 9-10=-4374/970, 2-20=-2406/653, 10-12=-2406/653
 BOT CHORD 19-20=-445/703, 18-19=-980/3933, 16-18=-737/3526, 14-16=-588/3526, 13-14=-783/3933,
 12-13=-257/676
 WEBS 6-16=-348/1787, 7-16=-1259/479, 7-14=-46/508, 9-14=-471/275, 5-16=-1259/479,
 5-18=-46/508, 3-18=-471/276, 2-19=-554/3304, 10-13=-556/3304

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-4-6, Interior(1) 3-4-6 to 21-10-0, Exterior(2R) 21-10-0 to 26-2-6, Interior(1) 26-2-6 to 44-8-0 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
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 20, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=600, 12=600.
 - 9) 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.



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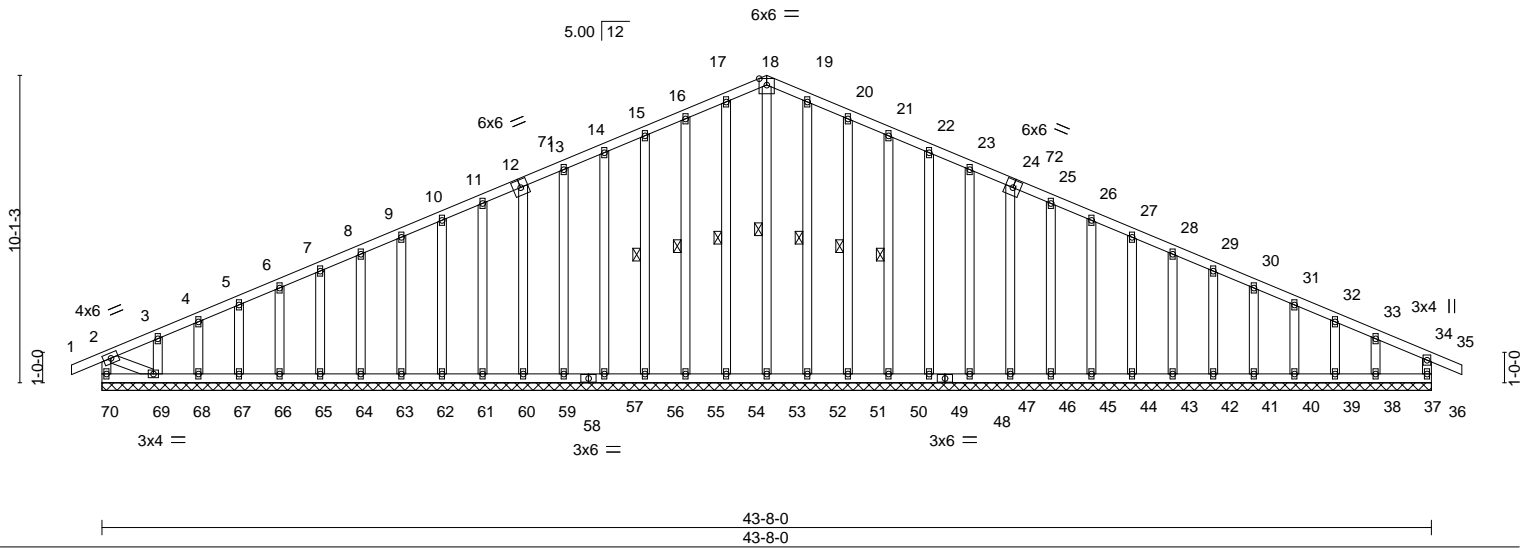
Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314775
201026	B04E	GABLE	4	1		

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1-0-0 21-10-0 43-8-0 44-8-0
 1-0-0 21-10-0 21-10-0 1-0-0

Scale = 1:75.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15	TC 0.19	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.09	Vert(LL) 0.00 34 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Vert(CT) 0.00 34 n/r 120		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 36 n/a n/a		
				Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 18-53, 17-54, 16-55, 15-56, 19-52, 20-51, 21-50
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 43-8-0.
 (lb) - Max Horz 70=199(LC 19)
 Max Uplift All uplift 100 lb or less at joint(s) 70, 36, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38 except 69=173(LC 14), 37=163(LC 15)
 Max Grav All reactions 250 lb or less at joint(s) 53, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except 70=255(LC 20), 36=260(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-94/268, 11-12=-105/286, 12-13=-118/305, 13-14=-132/344, 14-15=-145/382, 15-16=-158/419, 16-17=-173/462, 17-18=-181/484, 18-19=-181/484, 19-20=-173/462, 20-21=-158/419, 21-22=-145/382, 22-23=-132/344, 23-24=-118/305, 24-25=-105/266
 WEBS 18-53=-252/49, 2-69=-97/253

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 3-2-0, Exterior(2N) 3-2-0 to 21-10-0, Corner(3R) 21-10-0 to 26-2-0, Exterior(2N) 26-2-6 to 44-8-0 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ci=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 70, 36, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38 except (jt=lb) 69=173, 37=163.
 - 13) 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.



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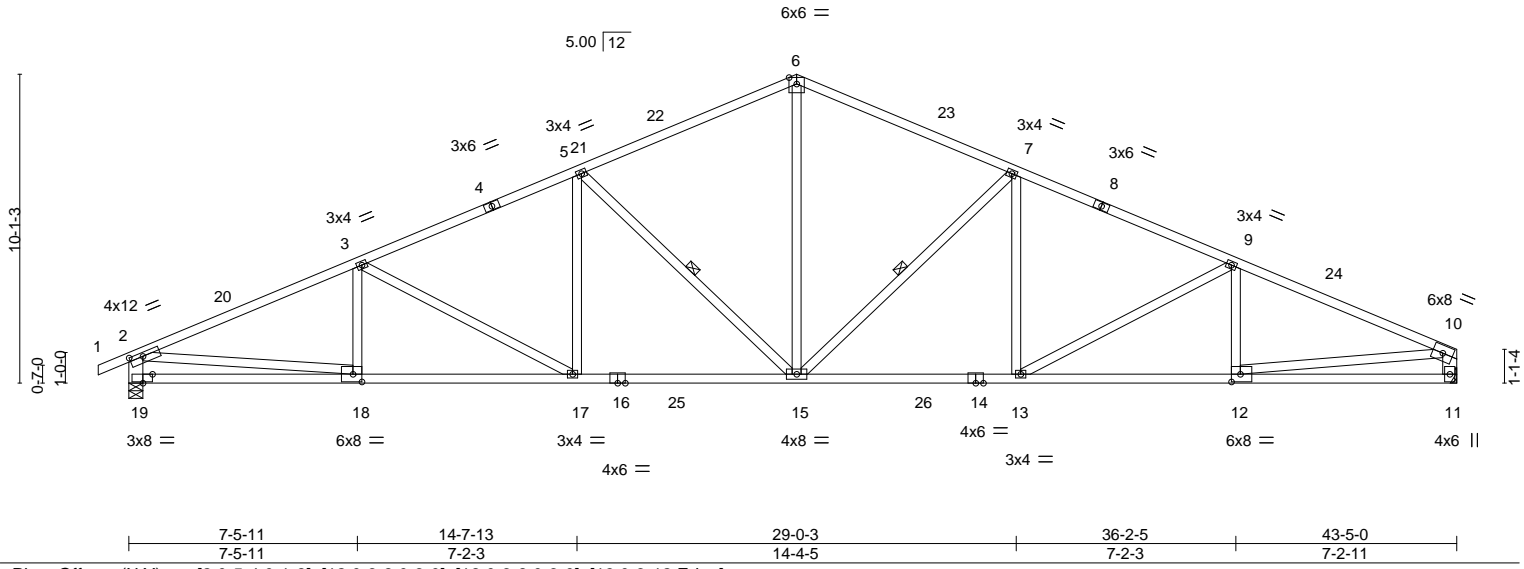
Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314776
201026	B05	Common	16	1		

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 ID:QS8hjBL9CIM8AxVMglothazLZKy-H51dR_1AxSenDWG8AjWDt5FYum4ZC3kClK_SvgyrAWm



Scale = 1:75.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.91 BC 0.71 WB 0.85 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.31 15-17 >999 240 Vert(CT) -0.56 15-17 >926 180 Horz(CT) 0.16 11 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 216 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 2400F 2.0E *Except* 1-4,8-10: 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E	BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-19,10-11: 2x6 DF-N 1800F 1.6E	WEBS 1 Row at midpt 7-15, 5-15

REACTIONS. (size) 11=Mechanical, 19=0-5-8
 Max Horz 19=210(LC 18)
 Max Uplift 11=-549(LC 15), 19=-598(LC 14)
 Max Grav 11=2409(LC 2), 19=2503(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4348/966, 3-5=-3888/907, 5-6=-3039/823, 6-7=-3039/827, 7-9=-3861/910,
 9-10=-4236/940, 2-19=-2394/650, 10-11=-2282/583
 BOT CHORD 18-19=-457/678, 17-18=-989/3909, 15-17=-745/3499, 13-15=-631/3471, 12-13=-793/3821,
 11-12=-138/400
 WEBS 6-15=-345/1762, 7-15=-1223/469, 7-13=-40/479, 9-13=-413/265, 9-12=-301/179,
 5-15=-1241/479, 10-12=-661/3454, 5-17=-46/509, 3-17=-474/276, 2-18=-550/3281

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-4-2, Interior(1) 3-4-2 to 21-10-0, Exterior(2R) 21-10-0 to 26-2-2, Interior(1) 26-2-2 to 43-2-4 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
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) 19 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) except (jt=lb) 11=549, 19=598.
 - 10) 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.



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Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314777
201026	B07E	GABLE	4	1		

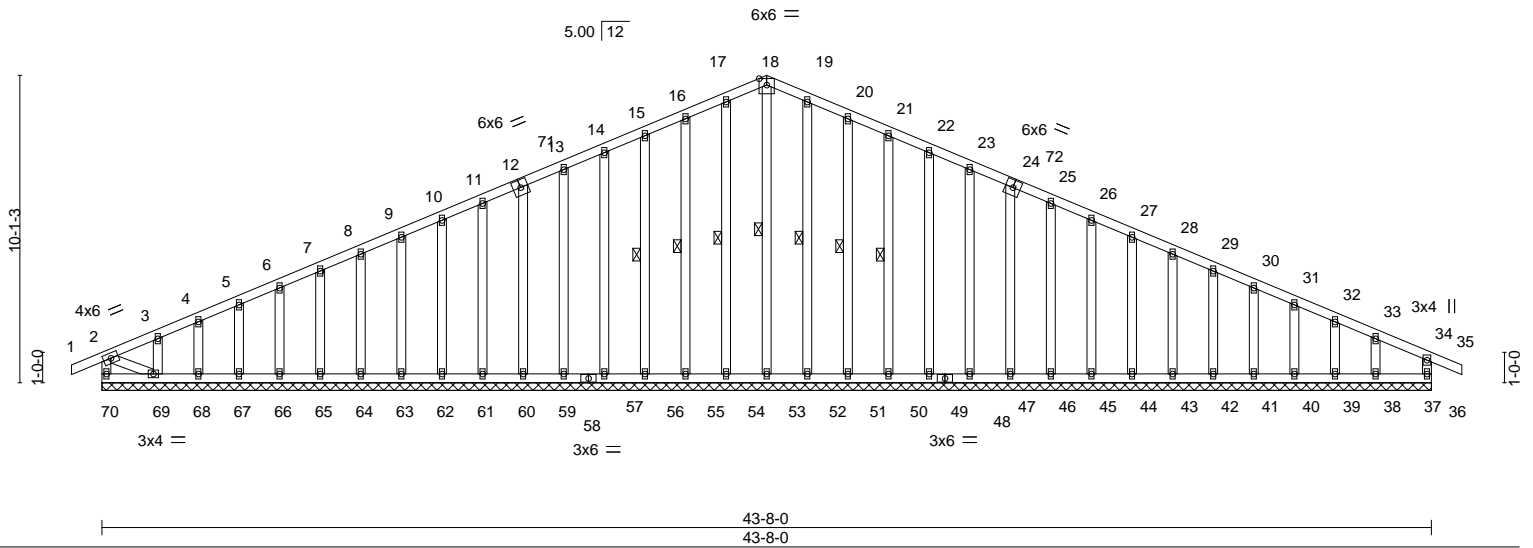
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ID:QS8hjBL9CIM8AxVMglothazLZKy-DU9Nsg2RT3uVSqQWI7ZhyWL3ZZwng8gUI1TZ_ZyrAWk

-1-0-0 21-10-0 43-8-0 44-8-0
 1-0-0 21-10-0 21-10-0 1-0-0

Scale = 1:75.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15	TC 0.19	Vert(LL) 0.00	34	n/r	120	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00	34	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01	36	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 18-53, 17-54, 16-55, 15-56, 19-52, 20-51, 21-50
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 43-8-0.
 (lb) - Max Horz 70=199(LC 19)
 Max Uplift All uplift 100 lb or less at joint(s) 70, 36, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38 except 69=173(LC 14), 37=163(LC 15)
 Max Grav All reactions 250 lb or less at joint(s) 53, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except 70=255(LC 20), 36=260(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-94/268, 11-12=-105/286, 12-13=-118/305, 13-14=-132/344, 14-15=-145/382, 15-16=-158/419, 16-17=-173/462, 17-18=-181/484, 18-19=-181/484, 19-20=-173/462, 20-21=-158/419, 21-22=-145/382, 22-23=-132/344, 23-24=-118/305, 24-25=-105/266
 WEBS 18-53=-252/49, 2-69=-97/253

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 3-2-0, Exterior(2N) 3-2-0 to 21-10-0, Corner(3R) 21-10-0 to 26-2-0, Exterior(2N) 26-2-6 to 44-8-0 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ci=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 70, 36, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38 except (jt=lb) 69=173, 37=163.
 - 13) 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.



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Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314778
201026	B08	Monopitch	4	1		

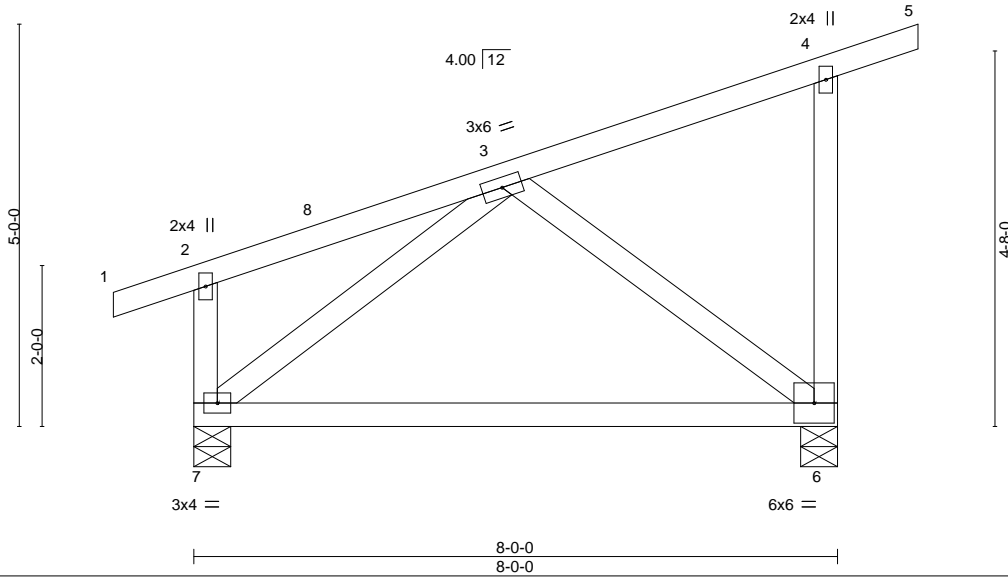
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:36 2021 Page 1

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Scale = 1:28.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.21 6-7 >437 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.42 6-7 >218 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 6 n/a n/a	Weight: 38 lb	FT = 20%
	Code IRC2018/TP12014				

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 6=0-5-8, 7=0-5-8
 Max Horz 7=287(LC 11)
 Max Uplift 6=204(LC 14), 7=170(LC 10)
 Max Grav 6=700(LC 21), 7=611(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-6=-368/293, 2-7=-259/279
 BOT CHORD 6-7=-476/348
 WEBS 3-6=-426/500, 3-7=-438/168

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-0-0 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
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) except (jt=lb) 6=204, 7=170.
- 8) 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.



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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

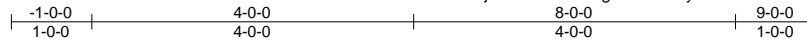
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss B09	Truss Type Monopitch Girder	Qty 4	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314779
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Scale = 1:28.6

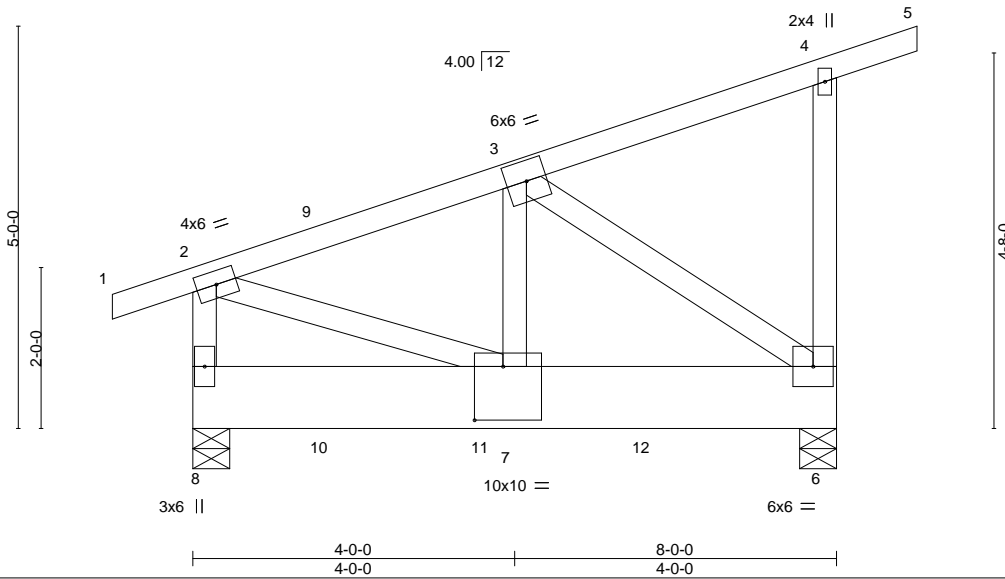


Plate Offsets (X,Y)-- [7:0-4-4,0-8-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	TC 0.20 BC 0.28 WB 0.47 Matrix-MP	in (loc) l/defl L/d Vert(LL) -0.02 7 >999 240 Vert(CT) -0.04 7 >999 180 Horz(CT) 0.00 6 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 115 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x10 DF-N 1950F 1.7E
WEBS 2x4 SPF No.2

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

REACTIONS. (size) 8=0-5-8, 6=0-5-8
Max Horz 8=274(LC 7)
Max Uplift 8=-1095(LC 6), 6=-1520(LC 10)
Max Grav 8=4464(LC 17), 6=6218(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3786/872, 4-6=-370/136, 2-8=-2846/733
BOT CHORD 7-8=-254/20, 6-7=-910/3542
WEBS 3-7=-823/3431, 3-6=-4374/1103, 2-7=-839/3804

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: 2x10 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-2-0 oc, Except member 6-3 2x4 - 1 row at 0-9-0 oc, member 7-2 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) except (jt=lb) 8=1095, 6=1520.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2389 lb down and 569 lb up at 1-7-8, 2389 lb down and 569 lb up at 3-7-8, and 2389 lb down and 569 lb up at 5-7-8, and 2397 lb down and 562 lb up at 7-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



August 5, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss B09	Truss Type Monopitch Girder	Qty 4	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 I47314779 Job Reference (optional)
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:37 2021 Page 2
ID:QS8hjBL9CIM8AxVMglothazLZKy-AsG7HM4h?h8Di8avPYb92xQPYNZD8zgnDLyg2SyrAWi

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-90, 2-4=-90, 4-5=-90, 6-8=-20

Concentrated Loads (lb)

Vert: 6=-2349(B) 10=-2341(B) 11=-2341(B) 12=-2341(B)

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Chesterfield, MO 63017

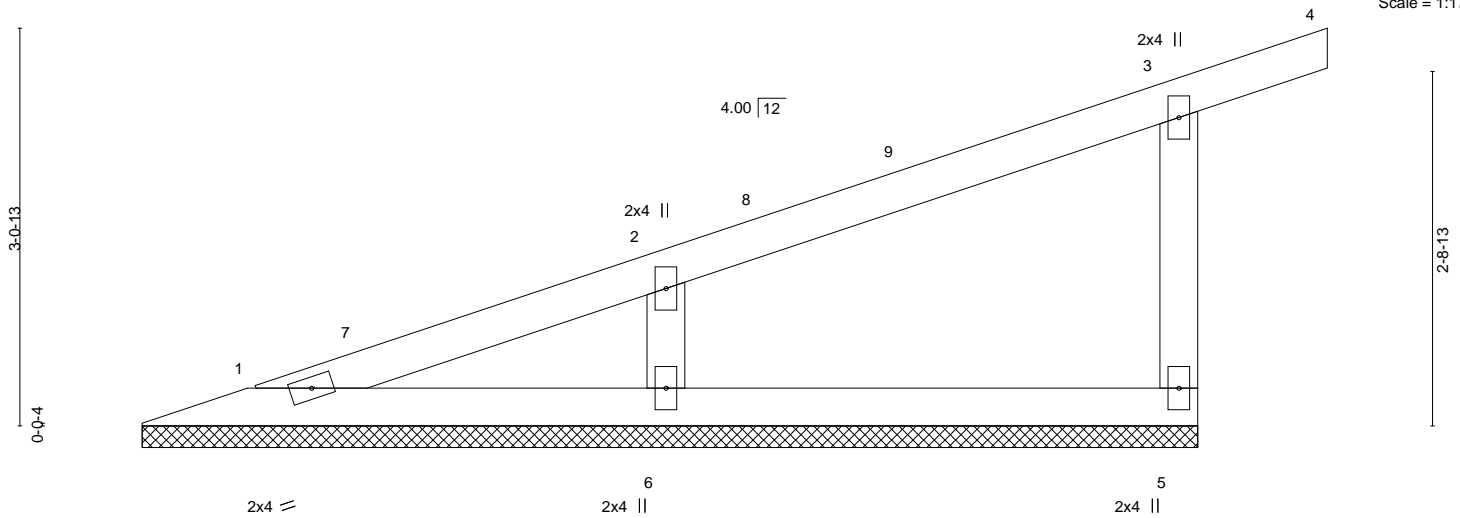
Job 201026	Truss BV01	Truss Type Valley	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314780
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:38 2021 Page 1
ID:QS8hjBL9CfM8AxVMglothazLZKy-e3qVUI5Jm_G4JH95zG6Oa8zYTx9tWAXR?hDbuyrAWH



Scale = 1:17.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.34 BC 0.11 WB 0.07 Matrix-P	in (loc) l/defl L/d Vert(LL) 0.00 3 n/r 120 Vert(CT) 0.01 4 n/r 120 Horz(CT) -0.00 5 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 23 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

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

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

REACTIONS. (size) 1=8-1-12, 5=8-1-12, 6=8-1-12
Max Horz 1=171(LC 11)
Max Uplift 1=9(LC 14), 5=-110(LC 11), 6=-166(LC 10)
Max Grav 1=134(LC 21), 5=397(LC 21), 6=611(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-275/151, 3-5=-366/309
WEBS 2-6=-521/340

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-1-4, Interior(1) 4-1-4 to 9-2-8 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
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 5=110, 6=166.
- 9) 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.



August 5, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

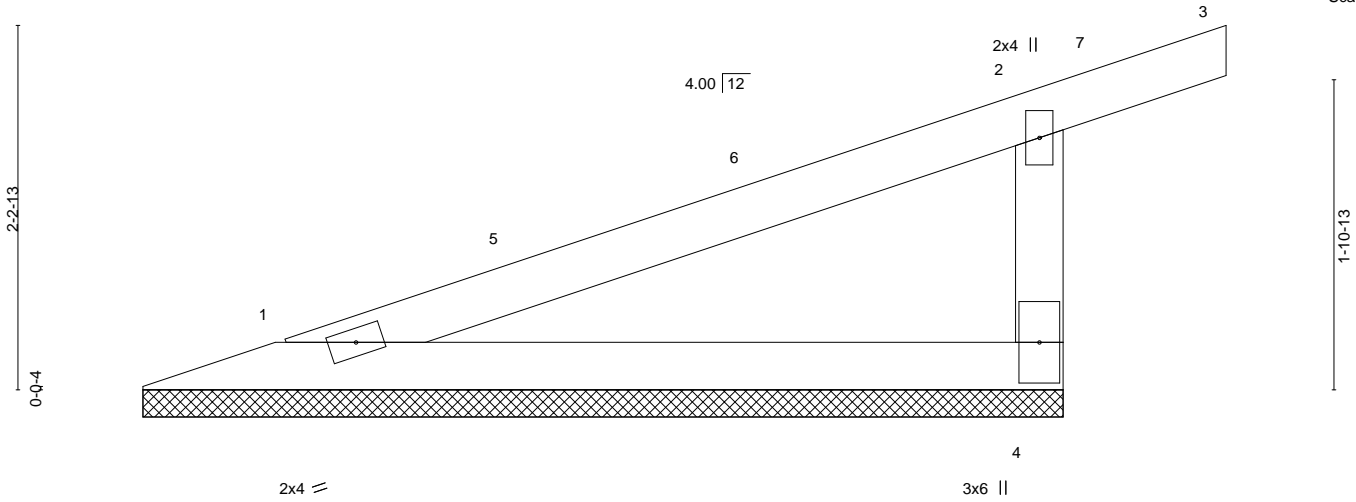
Job 201026	Truss BV02	Truss Type Valley	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14	147314781
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:39 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-6FOui25xXIOxxRkIXzdd7MVeCAfFc_S4gfRn7KyrAWg



Scale = 1:14.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.66 BC 0.22 WB 0.00 Matrix-P	in (loc) l/defl L/d Vert(LL) -0.00 3 n/r 120 Vert(CT) 0.02 3 n/r 120 Horz(CT) 0.00 4 n/a n/a	MT20	197/144
TCDL 15.0	Rep Stress Incr YES			Weight: 15 lb	FT = 20%
BCLL 0.0 *	Code IRC2018/TPI2014				
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

REACTIONS. (size) 1=5-7-12, 4=5-7-12
Max Horz 1=119(LC 11)
Max Uplift 1=60(LC 14), 4=138(LC 10)
Max Grav 1=317(LC 21), 4=496(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-450/406

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 6-8-8 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
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 4=138.
- 9) 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.



August 5, 2021

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

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

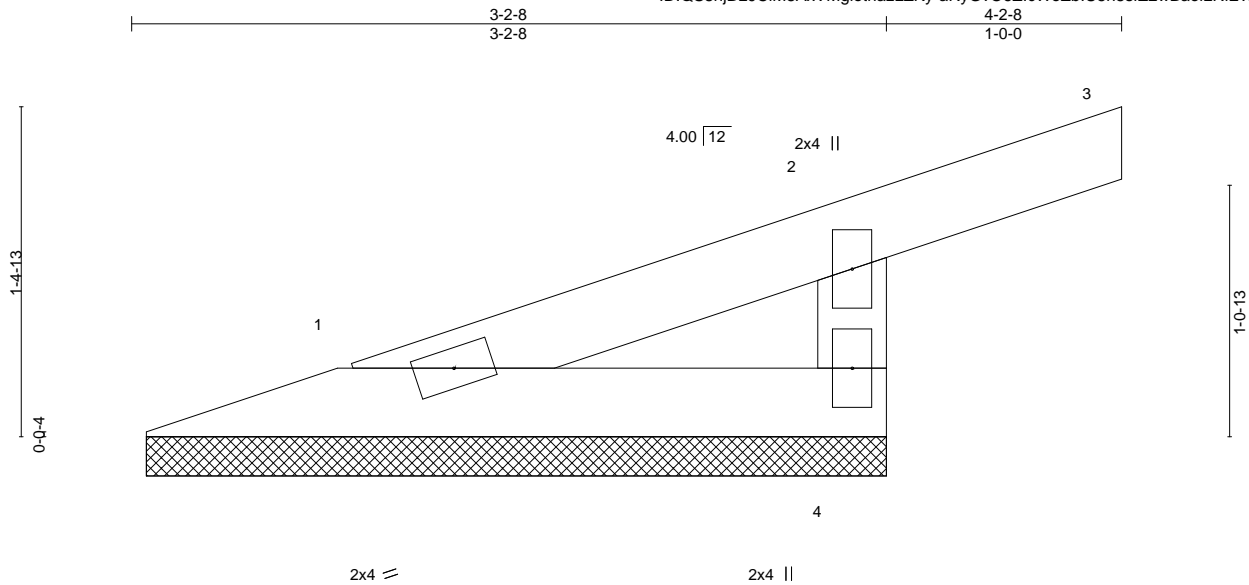


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss BV03	Truss Type Valley	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314782
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:40 2021 Page 1
ID:Qs8hjBL9CIM8AxVMglothazLZKy-aRyGvO6ZlcWoZblU5h8sfZ2wBaeiLRiEVJAKfmyrAWf



Scale = 1:9.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.20	Vert(LL) 0.00	3	n/r	120	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00	2	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 8 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-12, 4=3-1-12
Max Horz 1=67(LC 11)
Max Uplift 1=-12(LC 10), 4=-100(LC 14)
Max Grav 1=110(LC 21), 4=319(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-298/291

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 4=100.
- 9) 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.



August 5, 2021

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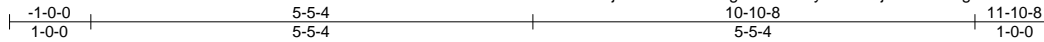


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss C01	Truss Type Monopitch	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14	147314783
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:41 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-2dWe7j7C3veeAltgeOf5Cnb0q_wF4muN7zwtBDyrAWe



Scale = 1:28.3

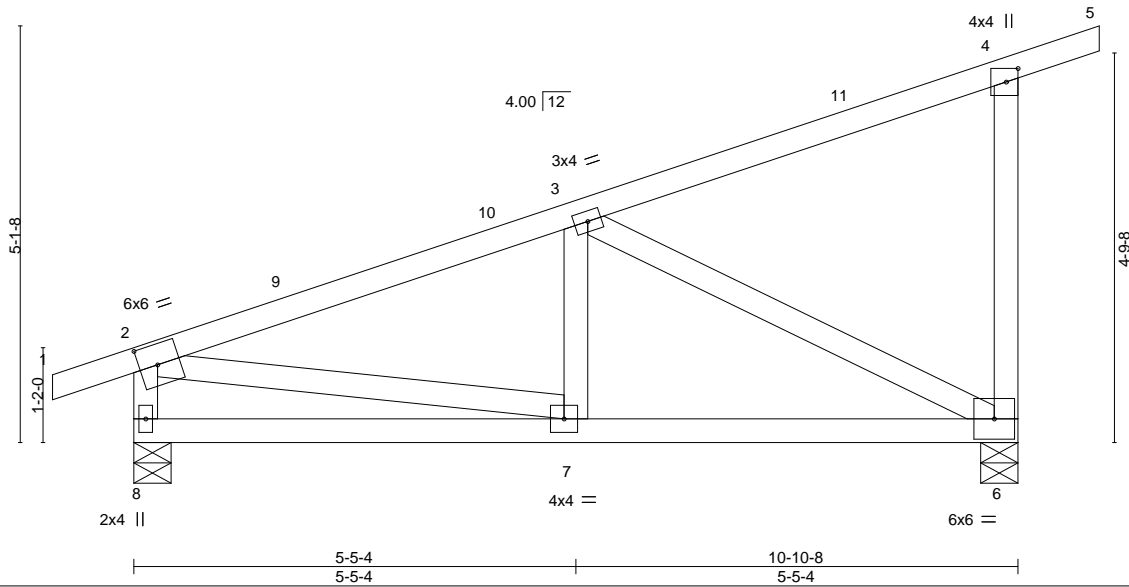


Plate Offsets (X, Y)-- [2:0-2-11,0-3-0], [4:0-2-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.53 BC 0.28 WB 0.52 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.02 6-7 >999 240 Vert(CT) -0.04 6-7 >999 180 Horz(CT) 0.01 6 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 48 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 5-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.

REACTIONS. (size) 8=0-5-8, 6=0-5-8
Max Horz 8=302(LC 11)
Max Uplift 8=-218(LC 10), 6=-251(LC 14)
Max Grav 8=746(LC 21), 6=880(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-901/262, 4-6=-444/269, 2-8=-694/367
BOT CHORD 7-8=-535/414, 6-7=-468/789
WEBS 3-6=-853/433, 2-7=-81/648

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-8 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
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) 8=218, 6=251.
 - 8) 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.



August 5, 2021

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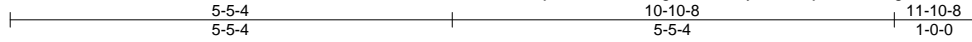


Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314784
201026	C01A	Monopitch	2	1		

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:41 2021 Page 1

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Scale = 1:28.3

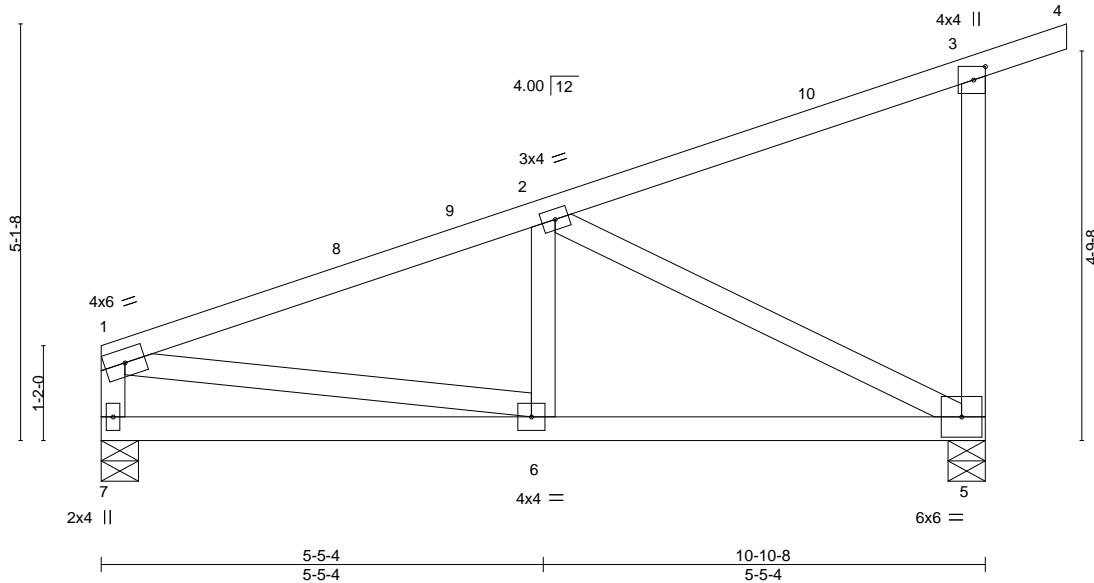


Plate Offsets (X,Y)-- [3:0-2-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.56 BC 0.28 WB 0.53	Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01	5-6 5-6 5	>999 >999 n/a	240 180 n/a	MT20	197/144
TCDL 15.0	Rep Stress Incr YES	Matrix-MS					Weight: 47 lb	FT = 20%
BCLL 0.0 *	Code IRC2018/TPI2014							
BCDL 10.0								

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Sheathed or 5-8-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-3-8 oc bracing.

REACTIONS. (size) 7=0-5-8, 5=0-5-8
 Max Horz 7=291(LC 11)
 Max Uplift 7=143(LC 10), 5=252(LC 14)
 Max Grav 7=638(LC 21), 5=886(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-914/277, 3-5=-440/266, 1-7=-586/265
 BOT CHORD 6-7=-503/393, 5-6=-475/807
 WEBS 2-5=-874/442, 1-6=-126/681

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-10-8 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
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) except (jt=lb) 7=143, 5=252.
- 8) 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.



August 5, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

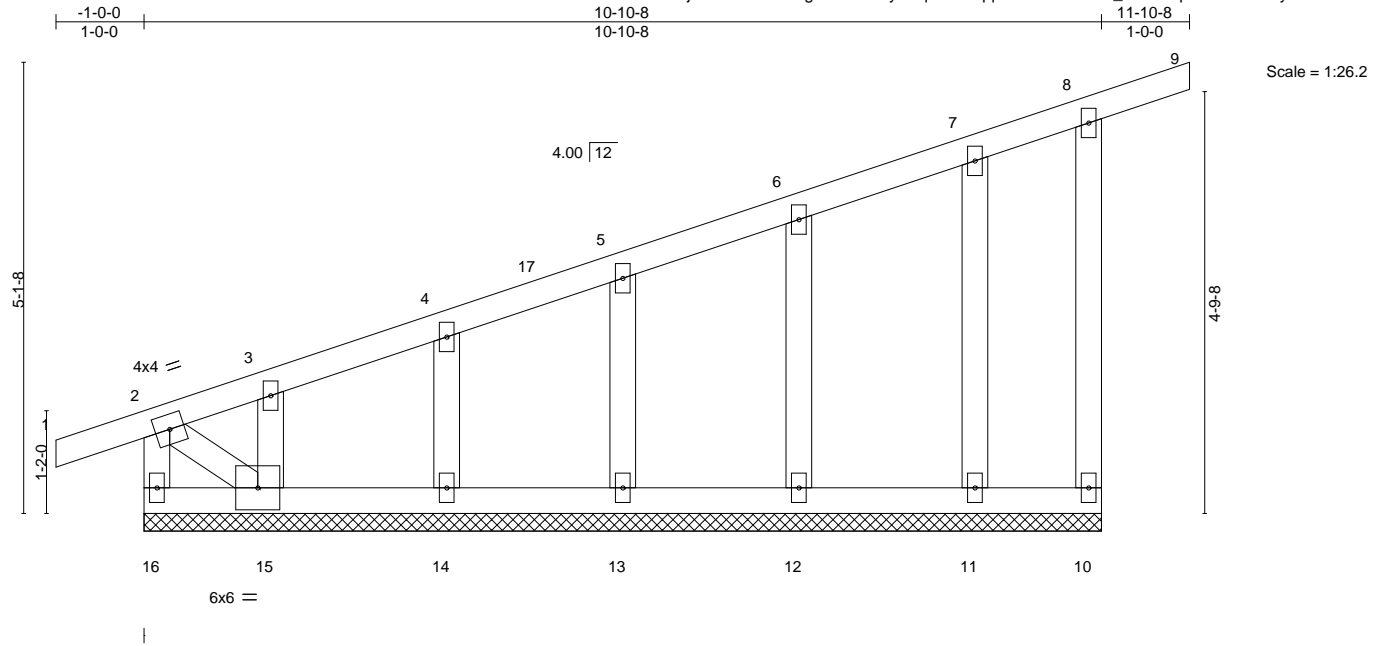
Job 201026	Truss C01E	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14	147314785
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:42 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-Wq40K38qqDmVovStC5BKL_7GIOJpKYWMdfRkfyRAWd

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.00 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 10 n/a n/a	Weight: 49 lb	FT = 20%
	Code IRC2018/TPI2014				

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

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

REACTIONS. All bearings 10-10-8.
(lb) - Max Horz 16=302(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 12, 11 except 10=111(LC 11), 15=193(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 11 except 16=272(LC 20), 10=268(LC 21), 13=277(LC 21), 12=305(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-340/123, 2-3=-490/226, 3-4=-434/215, 4-5=-356/192, 5-6=-282/172, 8-10=-261/276
BOT CHORD 15-16=-561/316
WEBS 6-12=-265/232, 2-15=-264/601

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 11-10-8 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 12, 11 except (jt=lb) 10=111, 15=193.
 - 13) 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.



August 5, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314786
201026	C02	Monopitch	10	1	Job Reference (optional)	

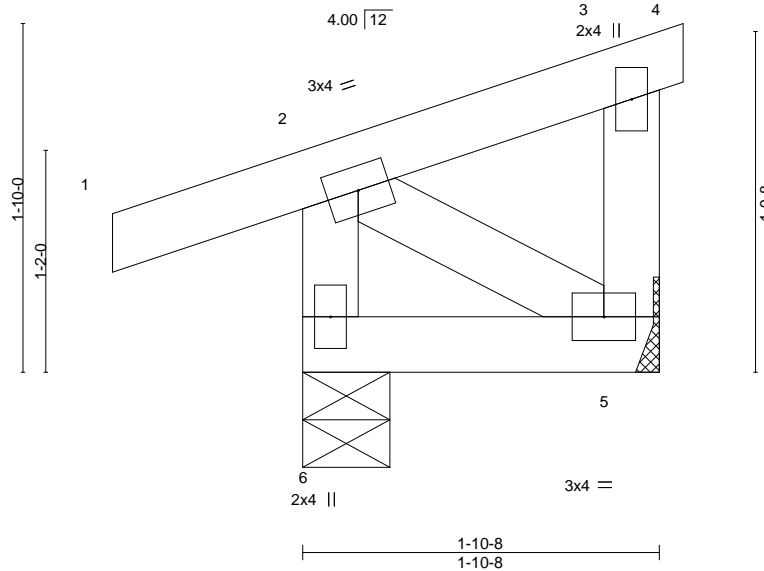
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:43 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-_0dOYP9SbXuMQ313mpizHCgSbogbYozgHP_G5yrAWc



Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 5 n/a n/a	Weight: 10 lb	FT = 20%
	Code IRC2018/TPI2014				

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Sheathed or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-5-8, 5=Mechanical
 Max Horz 6=96(LC 11)
 Max Uplift 6=111(LC 10), 5=56(LC 11)
 Max Grav 6=289(LC 21), 5=95(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-6=-273/218

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=111.
- 9) 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.



August 5, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 201026	Truss C02E	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314787
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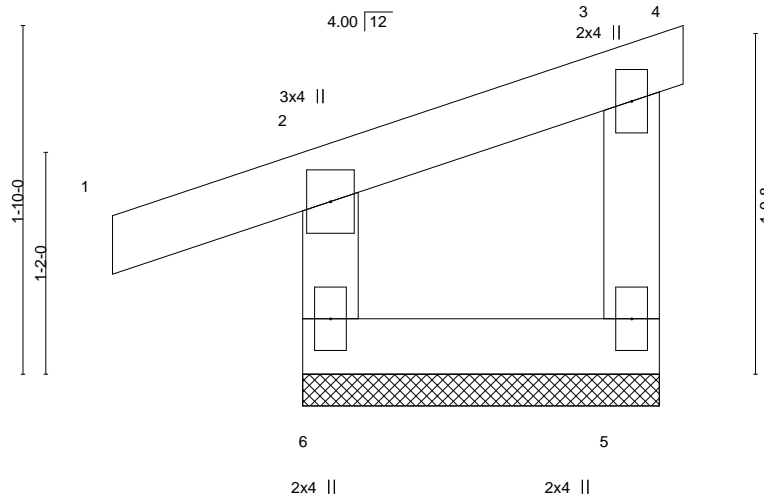
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:44 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-SCBnlI94Mq0D1CcFKWDoqPdDLB_9HEhpqx8XoYrAWb



Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15	TC 0.19	Vert(LL) 0.00	3	n/r	120	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00	3	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 8 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=1-10-8, 5=1-10-8
Max Horz 6=96(LC 11)
Max Uplift 6=111(LC 10), 5=56(LC 11)
Max Grav 6=289(LC 21), 5=95(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-266/352

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) 5 except (jt=lb) 6=111.
- 12) 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.



August 5, 2021

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

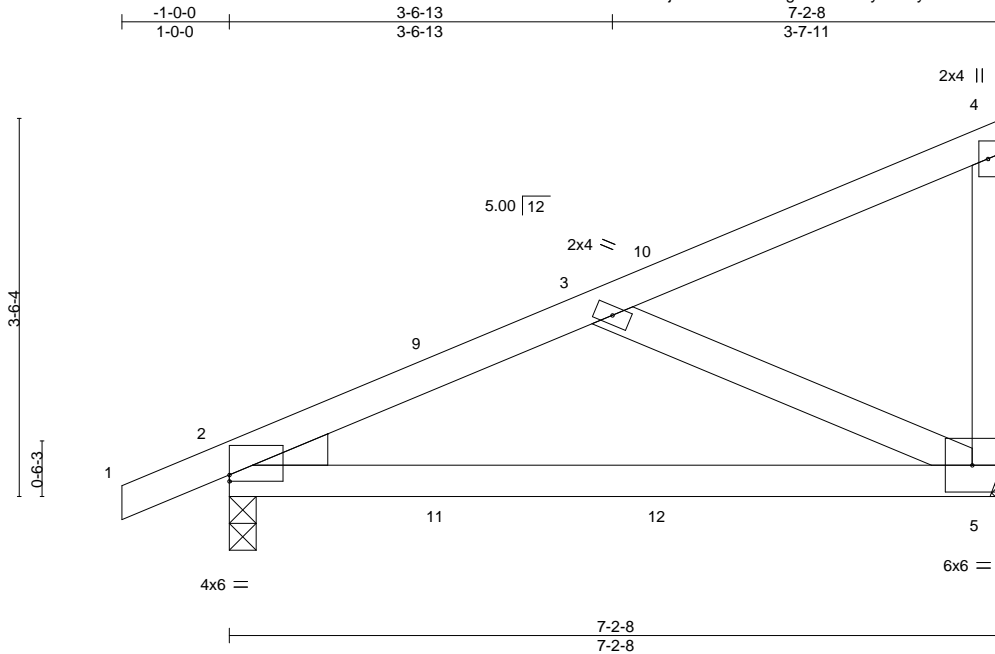


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss C03	Truss Type Monopitch	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314788
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:45 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-xP19y5Ai7894fMBRtEk1MdljFbBz0exz2bu5K_yrAWa



Scale = 1:21.5

Plate Offsets (X,Y)-- [2:0-0,0,0-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.28	5-8	>302	240	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.67	Vert(CT) 0.23	5-8	>363	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-9 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=Mechanical
Max Horz 2=204(LC 13)
Max Uplift 2=-260(LC 10), 5=-246(LC 11)
Max Grav 2=614(LC 21), 5=520(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-735/555
BOT CHORD 2-5=-723/621
WEBS 3-5=-679/758

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 5=246.
- 9) 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.



August 5, 2021

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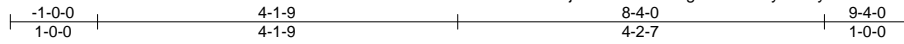
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314789
201026	C03E	Monopitch Structural Gable	2	1		

Builders Inc., Aurora, CO - 80011,

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ID:QS8hjBL9CjM8AxVMglothazLZKy-xPI9y5AI7894fMBRtEk1MdljubE00drz2bu5K_yrAWa



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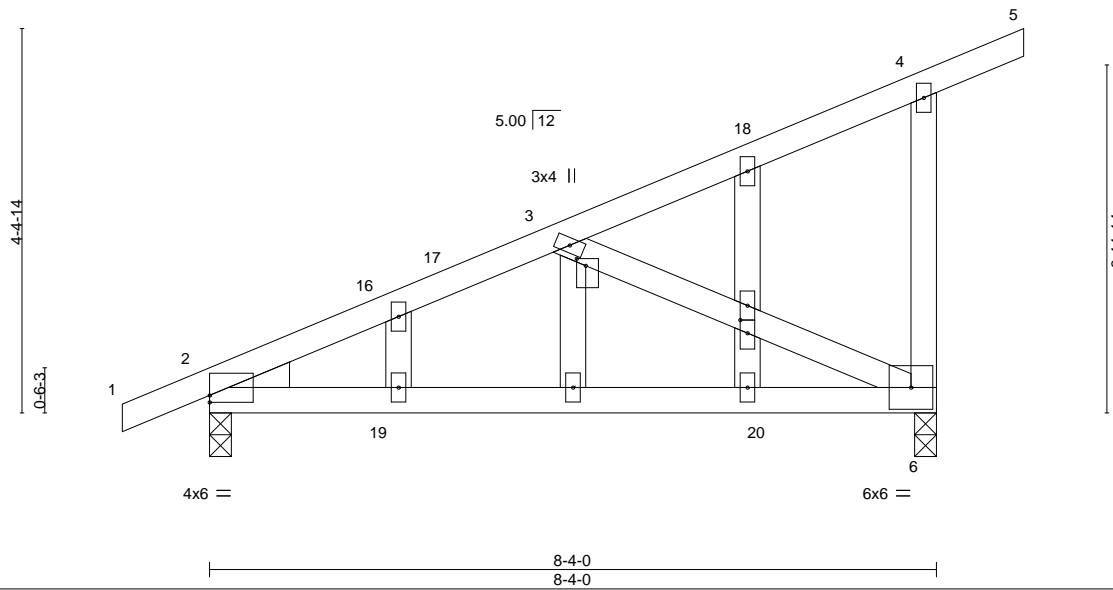


Plate Offsets (X, Y)--	[2:0-0-0,0-0-15], [3:0-1-0,0-1-4], [12:0-1-13,0-1-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.46 BC 0.48 WB 0.26 Matrix-MP	in (loc) l/defl L/d Vert(LL) 0.36 6-15 >271 240 Vert(CT) 0.30 6-15 >330 180 Horz(CT) -0.02 2 n/a n/a	MT20	197/144
TCDL 15.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IRC2018/TPI2014				
BCDL 10.0				Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.
(size) 2=0-3-0, 6=0-3-0
Max Horz 2=249(LC 11)
Max Uplift 2=-284(LC 10), 6=-352(LC 11)
Max Grav 2=605(LC 21), 6=745(LC 21)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-742/553, 4-6=-395/273
BOT CHORD 2-6=-758/652
WEBS 3-6=-712/793

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and right exposed;C-C 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) except (it=lb) 2=284, 6=352.
 - 11) 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.



August 5, 2021

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314790
201026	C04	Common	8	1		

Builders Inc., Aurora, CO - 80011,

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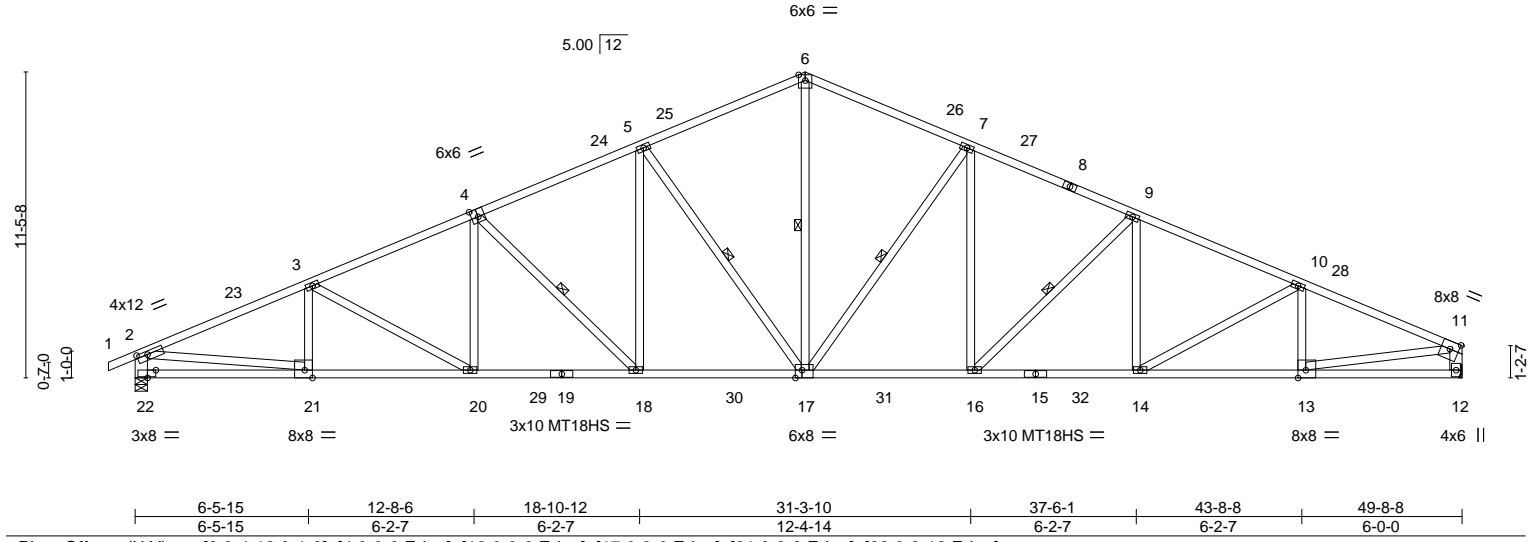


Plate Offsets (X, Y)-- [2:0-4-12,0-1-8], [4:0-3-0,Edge], [13:0-3-8,Edge], [17:0-3-0,Edge], [21:0-3-8,Edge], [22:0-3-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.87	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.74	Vert(LL) -0.41 17-18 >999 240	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Vert(CT) -0.73 16-17 >811 180		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.23 12 n/a n/a		
				Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E	BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 4-18, 5-17, 6-17, 7-17, 9-16
2-22,11-12: 2x6 DF-N 1800F 1.6E	

REACTIONS. (size) 12=Mechanical, 22=0-5-8
 Max Horz 22=244(LC 14)
 Max Uplift 12=-629(LC 15), 22=-680(LC 14)
 Max Grav 12=2793(LC 2), 22=2886(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5044/1124, 3-4=-4892/1103, 4-5=-4273/1035, 5-6=-3516/961, 6-7=-3491/960,
 7-9=-4234/1032, 9-10=-4775/1073, 10-11=-4712/1045, 2-22=-2762/719, 11-12=-2681/655
 BOT CHORD 21-22=-432/628, 20-21=-1184/4562, 18-20=-1014/4431, 17-18=-760/3864,
 16-17=-664/3827, 14-16=-815/4327, 13-14=-909/4275, 12-13=-96/285
 WEBS 3-21=-386/181, 4-20=-22/333, 4-18=-796/358, 5-18=-176/811, 5-17=-1383/510,
 6-17=-481/2189, 7-17=-1353/496, 7-16=-155/743, 9-16=-696/334, 9-14=0/259,
 10-13=-569/224, 2-21=-758/4027, 11-13=-825/4049

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-11-10, Interior(1) 3-11-10 to 25-1-3, Exterior(2R) 25-1-3 to 30-0-14, Interior(1) 30-0-14 to 49-5-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ci=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 3x6 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=629, 22=680.
 - 12) 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.



August 5, 2021

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314791
201026	C04E	GABLE	2	1		

Builders Inc., Aurora, CO - 80011,

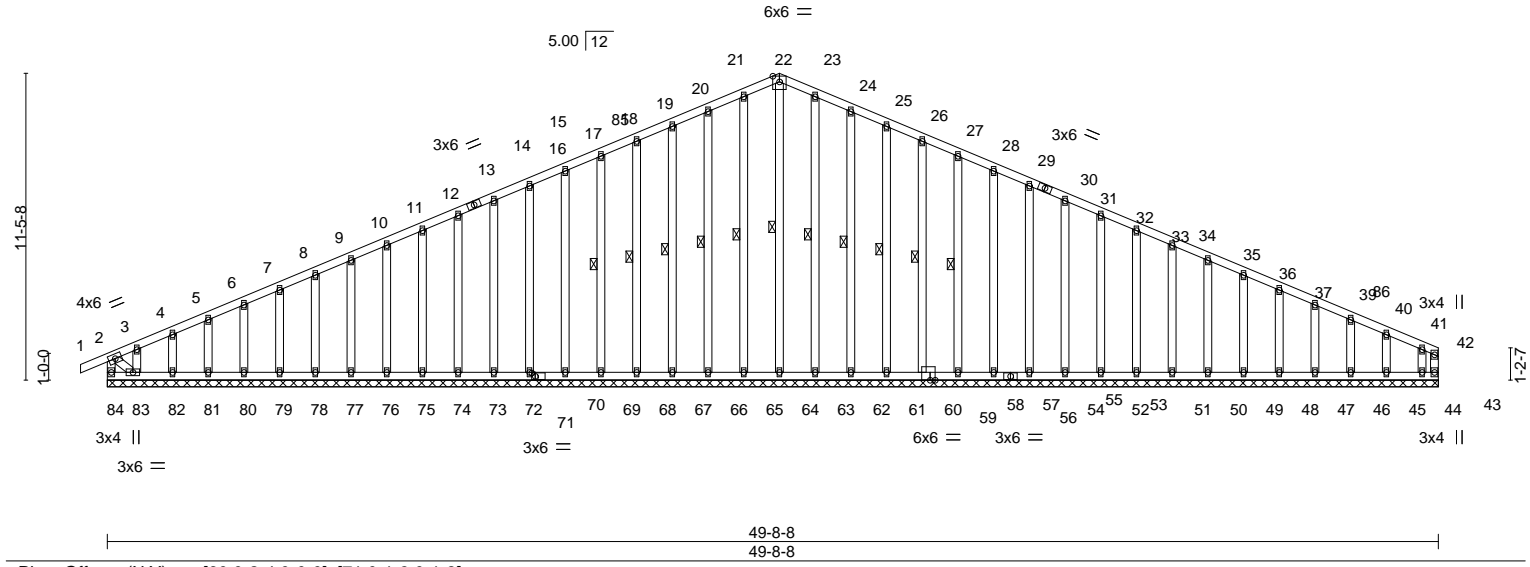
8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:50 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-HMZ20oErxgnNm73PgnKC3gSdnc1ehwdiCtbs0ByrAWV

Job Reference (optional)



Scale = 1:86.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.19	Vert(LL) 0.00	1	n/r	120	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01	43	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						

Weight: 366 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 22-64, 21-65, 20-66, 19-67, 18-68, 17-69, 23-63, 24-62, 25-61, 26-60, 27-58
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 49-8-8.
 (lb) - Max Horz 84=245(LC 18)
 Max Uplift All uplift 100 lb or less at joint(s) 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 63, 62, 61, 60, 58, 57, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45 except 84=-114(LC 15), 83=-266(LC 14), 44=-391(LC 15)
 Max Grav All reactions 250 lb or less at joint(s) 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 63, 62, 61, 60, 58, 57, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44 except 84=338(LC 26), 43=404(LC 15), 64=253(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-84=-321/114, 2-3=-306/134, 3-4=-281/142, 10-11=-91/252, 11-12=-92/272, 12-14=-106/291, 14-15=-119/311, 15-16=-132/330, 16-17=-145/366, 17-18=-158/404, 18-19=-171/442, 19-20=-185/480, 20-21=-200/524, 21-22=-205/542, 22-23=-205/542, 23-24=-200/524, 24-25=-185/480, 25-26=-171/442, 26-27=-158/404, 27-28=-145/366, 28-29=-132/329, 29-31=-119/291, 31-32=-106/253
 WEBS 22-64=-285/64, 2-83=-110/342

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 3-9-3, Exterior(2N) 30-0-14 to 25-1-3, Corner(3R) 25-1-3 to 30-0-14, Exterior(2N) 30-0-14 to 49-6-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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 is provided between the bottom chord and any other members.



August 5, 2021

Job 201026	Truss C04E	Truss Type GABLE	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional) I47314791
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:51 2021 Page 2
ID:QS8hjBL9CIM8AxVMglothazLZKy-IZ6QD8FTL_vENHebEUrRcu?oX0MtQNtrRXLPYeyrAWU

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 63, 62, 61, 60, 58, 57, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45 except (jt=lb) 84=114, 83=266, 44=391.
- 13) 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.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314792
201026	C05	Common	12	1		

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:52 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-DlgoQUG5T115?RDooCMg95YnxQZc9dM?fB4z44yrAWT

Job Reference (optional)

-1-0-0	6-5-15	12-8-6	18-10-12	25-1-3	31-3-10	37-6-1	43-8-8	49-4-12
1-0-0	6-5-15	6-2-7	6-2-7	6-2-7	6-2-7	6-2-7	6-2-7	5-8-4

Scale = 1:85.8

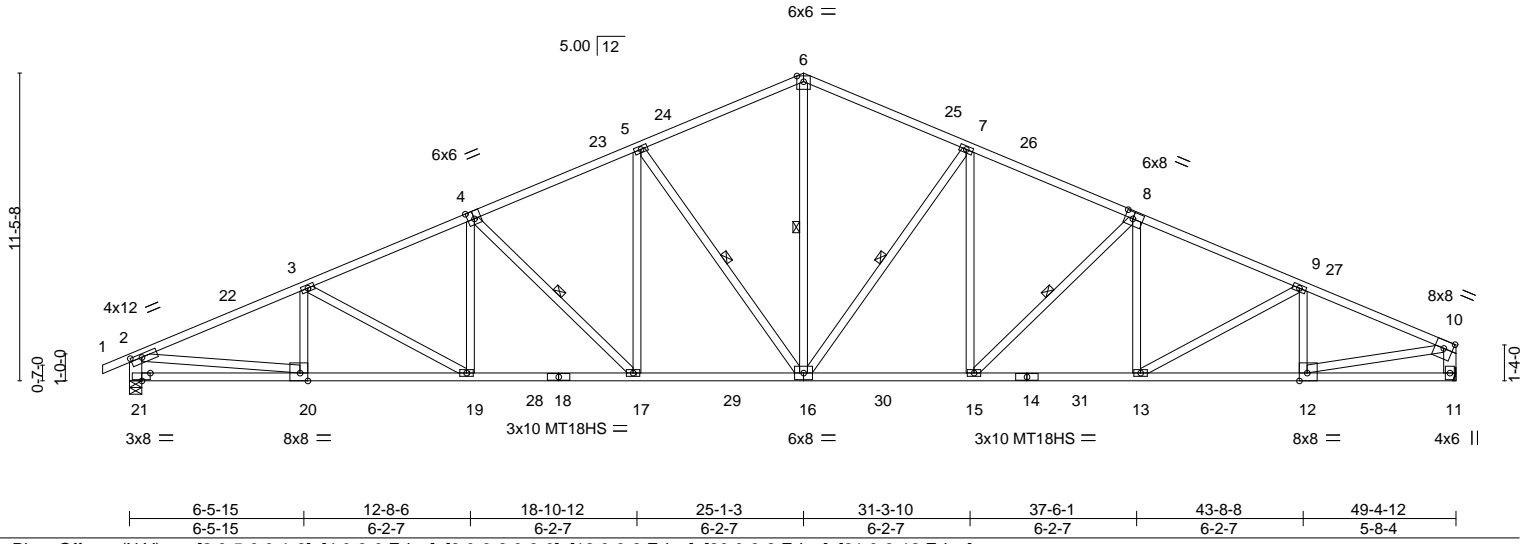


Plate Offsets (X, Y)--	[2:0-5-0,0-1-8], [4:0-3-0,Edge], [8:0-3-8,0-3-0], [12:0-3-8,Edge], [20:0-3-8,Edge], [21:0-3-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.98 BC 0.74 WB 0.98 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.41 16-17 >999 240 Vert(CT) -0.72 16-17 >815 180 Horz(CT) 0.23 11 n/a n/a	MT20 MT18HS	197/144 220/195
TCDL 15.0				Weight: 263 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 1800F 1.6E *Except* 8-10: 2x4 SPF No.2	TOP CHORD Sheathed, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E	BOT CHORD Rigid ceiling directly applied or 6-10-1 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-21,10-11: 2x6 DF-N 1800F 1.6E	WEBS 1 Row at midpt 4-17, 5-16, 6-16, 7-16, 8-15

REACTIONS. (size) 11=Mechanical, 21=0-5-8
 Max Horz 21=244(LC 18)
 Max Uplift 11=-623(LC 15), 21=-678(LC 14)
 Max Grav 11=2776(LC 2), 21=2868(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5009/1119, 3-4=-4852/1097, 4-5=-4232/1026, 5-6=-3460/949, 6-7=-3460/953,
 7-8=-4162/1018, 8-9=-4654/1046, 9-10=-4460/989, 2-21=-2745/715, 10-11=-2671/646
 BOT CHORD 20-21=-432/619, 19-20=-1179/4530, 17-19=-1010/4394, 16-17=-755/3826,
 15-16=-659/3761, 13-15=-800/4212, 12-13=-865/4048
 WEBS 3-20=-382/180, 4-19=-23/334, 4-17=-798/358, 5-17=-175/816, 5-16=-1385/510,
 6-16=-473/2155, 7-16=-1307/485, 7-15=-149/700, 8-15=-632/320, 9-13=-35/270,
 9-12=-670/244, 2-20=-753/3996, 10-12=-806/3917

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-11-4, Interior(1) 3-11-4 to 25-1-3, Exterior(2R) 25-1-3 to 30-0-8, Interior(1) 30-0-8 to 49-2-0 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
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 3x6 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=623, 21=678.
- 12) 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.



August 5, 2021

<p>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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314793
201026	C05E	GABLE	2	1	Job Reference (optional)	

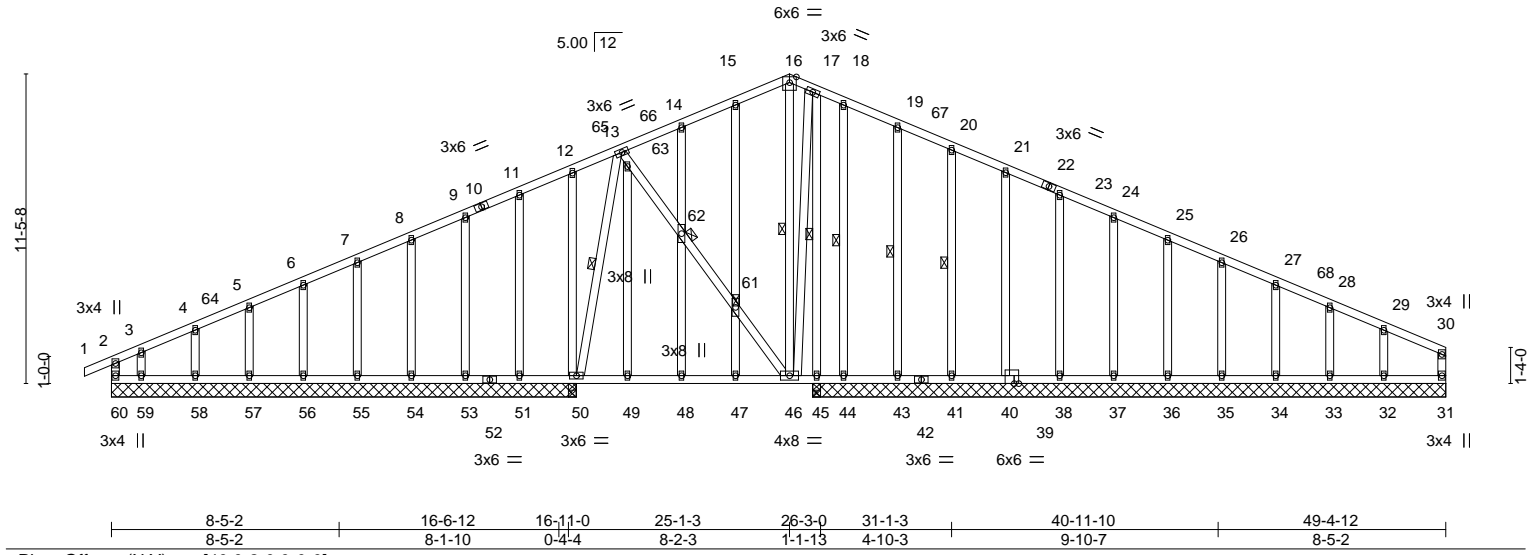
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:55 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-eKMx3WI_mDfsvyMTKwNmKAQwdgEM9YRL9JdhPyrAWQ



Scale = 1:85.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.49	in (loc) l/defl L/d	MT20	197/144
(Roof Snow=30.0)	Lumber DOL 1.15	BC 0.42	Vert(LL) -0.11 47-48 >999 240		
TCDL 15.0	Rep Stress Incr YES	WB 0.31	Vert(CT) -0.16 47-48 >678 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 31 n/a n/a		
BCDL 10.0				Weight: 327 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 16-46, 13-50, 17-45, 18-44, 19-43, 20-41
OTHERS 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 61, 62

REACTIONS. All bearings 23-5-4 except (jt=length) 60=17-2-8, 50=17-2-8, 50=17-2-8, 51=17-2-8, 53=17-2-8, 54=17-2-8, 55=17-2-8, 56=17-2-8, 57=17-2-8, 58=17-2-8, 59=17-2-8.
 (lb) - Max Horz 60=245(LC 18)
 Max Uplift All uplift 100 lb or less at joint(s) 50, 45, 51, 53, 54, 55, 56, 57, 58, 43, 41, 40, 38, 37, 36, 35, 34, 33 except 60=125(LC 15), 59=225(LC 14), 44=122(LC 15), 32=186(LC 15)
 Max Grav All reactions 250 lb or less at joint(s) 31, 51, 53, 54, 55, 56, 57, 58, 59, 44, 38, 37, 36, 35, 34, 33, 32 except 60=266(LC 20), 50=915(LC 21), 50=723(LC 1), 45=581(LC 21), 45=485(LC 1), 43=321(LC 22), 41=315(LC 22), 40=267(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-106/273, 9-11=-125/302, 11-12=-148/332, 12-13=-133/352, 13-14=-277/414, 14-15=-258/442, 15-16=-263/465, 16-17=-253/452, 17-18=-259/470, 18-19=-241/431, 19-20=-222/375, 20-21=-202/325, 21-23=-183/273, 2-60=-252/123
 WEBS 16-46=-291/20, 13-50=-872/136, 17-45=-580/56, 17-46=-113/649, 19-43=-273/128, 20-41=-277/108

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 3-11-4, Interior(1) 3-11-4 to 25-1-3, Exterior(2R) 25-1-3 to 30-0-8, Interior(1) 30-0-8 to 49-3-0 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) 50, 45, 51, 53, 59, 44, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=125, 59=225, 44=122, 32=186.



August 5, 2021

Job 201026	Truss C05E	Truss Type GABLE	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	I47314793
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:55 2021 Page 2
ID:QS8hjBL9CIM8AxVMglothazLZKy-eKMx3WI_mDPfsvyMTKwNmkaQwdgEM9YRL9JdhPyrAWQ

NOTES-

11) 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.

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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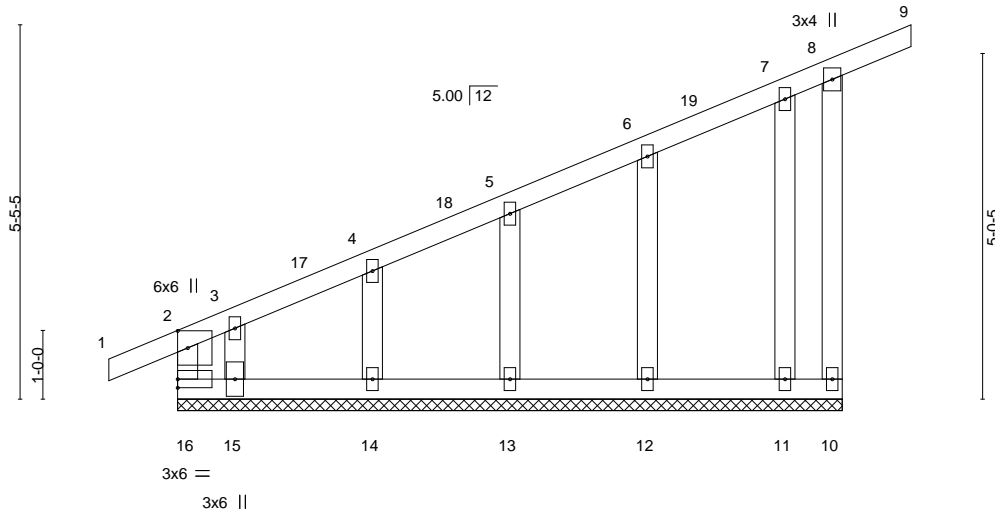
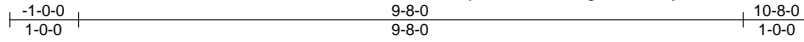
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314794
201026	C06E	Monopitch Supported Gable	2	1		

Builders Inc., Aurora, CO - 80011,

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ID:QS8hjBL9CIM8AxVMglothazLZKy-6WwJGsJcXWXWU2XZ12RcJxieO1225fPaap2ADryrAWP



Scale = 1:33.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	TC 0.31	Vert(LL) 0.00	8	n/r	120	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 45 lb	FT = 20%

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

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

REACTIONS. All bearings 9-8-0.
 (lb) - Max Horz 16=320(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 12, 11 except 10=-145(LC 11), 15=-333(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 14, 15, 11 except 16=362(LC 11), 10=273(LC 20), 13=281(LC 21), 12=308(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-16=-406/163, 2-3=-660/318, 3-4=-480/251, 4-5=-394/223, 5-6=-306/195, 8-10=-281/303
 WEBS 3-15=-235/459, 6-12=-267/213

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-8-0 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
 - 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 12, 11 except (jt=lb) 10=145, 15=333.
 - 13) 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.



August 5, 2021

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

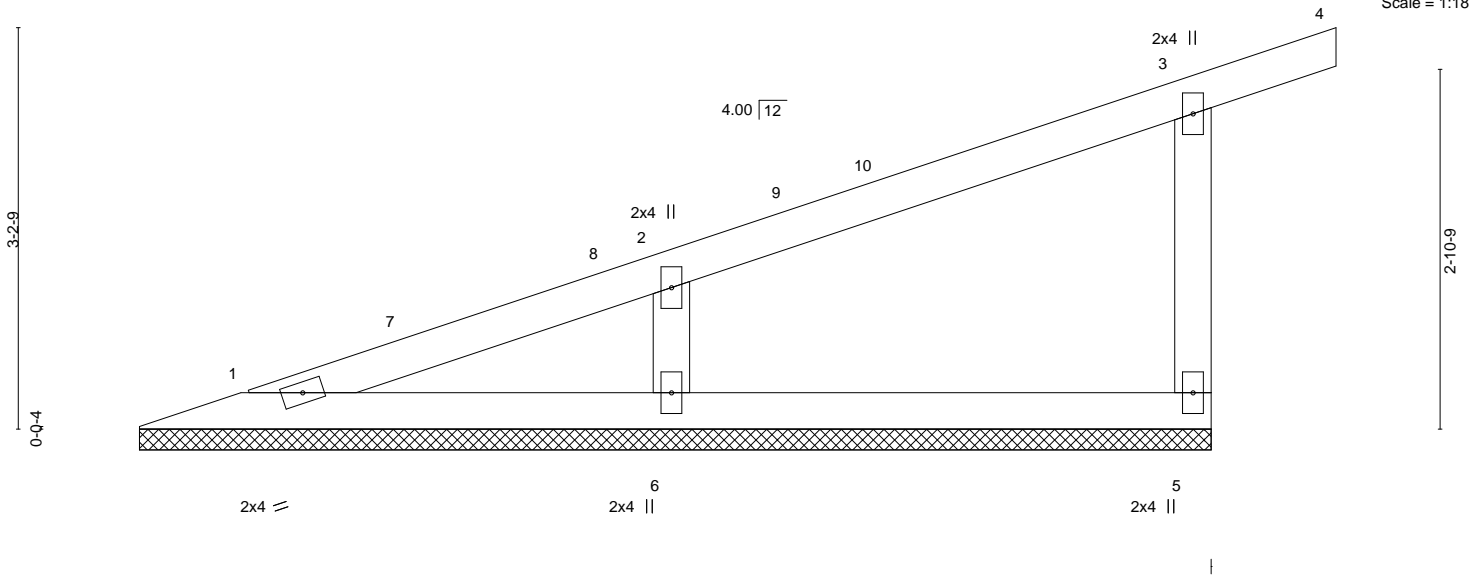
Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314795
201026	CV01	Valley	2	1	Job Reference (optional)	

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:57 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-aiUhUCJEIqfN5C6lalys9Fo2RQNq6p6kpSokmHyrAWO



Scale = 1:18.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.38 BC 0.12 WB 0.07 Matrix-P	in (loc) l/defl L/d Vert(LL) 0.00 3 n/r 120 Vert(CT) 0.01 4 n/r 120 Horz(CT) -0.00 5 n/a n/a	MT20	197/144
TCDL 15.0				Weight: 24 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

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

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

REACTIONS. (size) 1=8-7-0, 5=8-7-0, 6=8-7-0
Max Horz 1=180(LC 11)
Max Uplift 1=-12(LC 14), 5=-112(LC 11), 6=-178(LC 10)
Max Grav 1=137(LC 21), 5=409(LC 21), 6=646(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-282/157, 3-5=-376/311
WEBS 2-6=-550/350

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 9-7-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 5=112, 6=178.
- 9) 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.



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

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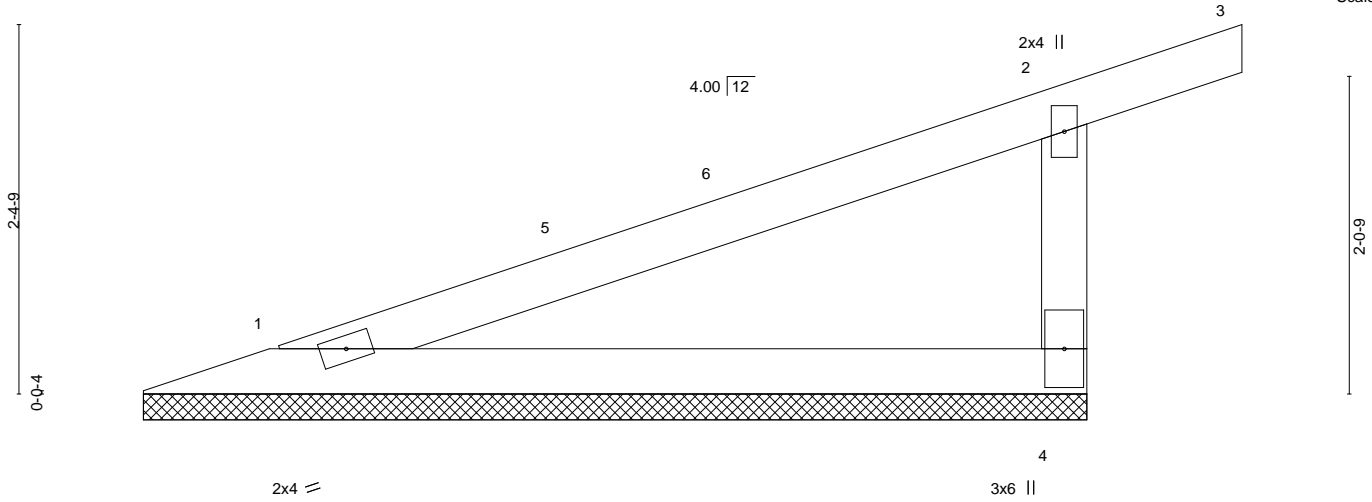
Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14	147314796
201026	CV02	Valley	2	1		

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:57 2021 Page 1
 ID:QS8hjBL9CIM8AxVMglothazLZKy-aiUhUCJEIqfN5C6lalys9Fh8RN7q7vvpSokmHyrAWO



Scale = 1:14.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) -0.01 3 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) 0.03 3 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 16 lb	FT = 20%
	Code IRC2018/TPI2014				

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

REACTIONS. (size) 1=6-1-0, 4=6-1-0
 Max Horz 1=128(LC 11)
 Max Uplift 1=68(LC 14), 4=-145(LC 10)
 Max Grav 1=350(LC 21), 4=526(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-475/419

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 7-1-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - 5) Gable requires continuous bottom chord bearing.
 - 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) 1 except (jt=lb) 4=145.
 - 9) 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.



August 5, 2021

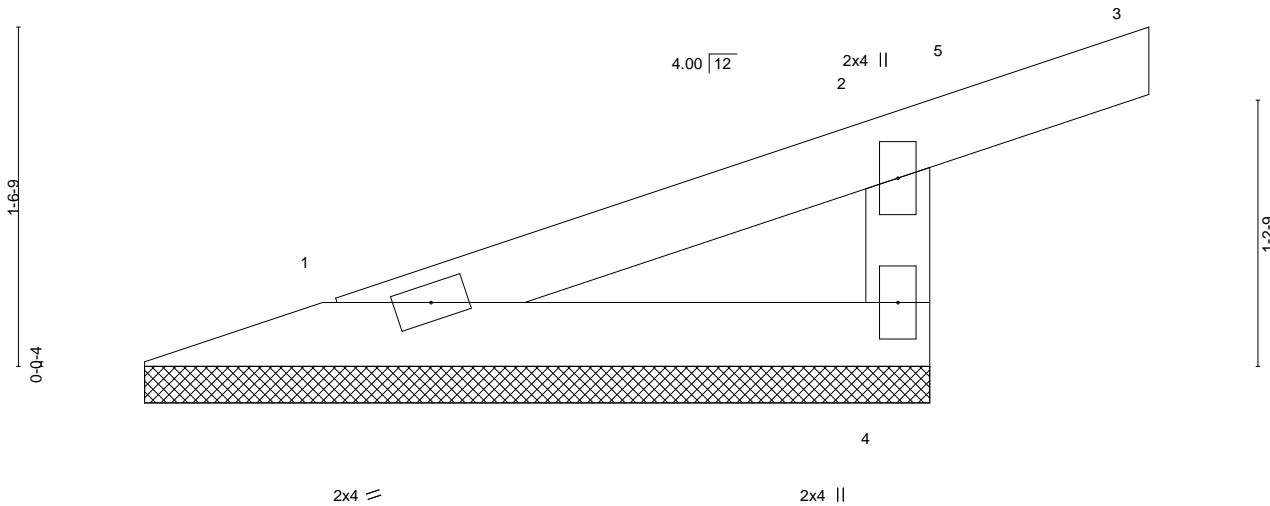
Job 201026	Truss CV03	Truss Type Valley	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14	147314797
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:58 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-2v13hYKs38nEjMhx8TT4OMo?YrnaZa9t26XHlkyrAWN



Scale = 1:10.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15	TC 0.21	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.06	Vert(LL) 0.00 3 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) 0.00 3 n/r 120		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Sheathed or 3-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-0, 4=3-7-0
Max Horz 1=76(LC 11)
Max Uplift 1=21(LC 10), 4=106(LC 14)
Max Grav 1=149(LC 21), 4=348(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-323/312

NOTES-

- 1) Wind: ASCE 7-16; Vult=136mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 4-7-12 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 4=106.
- 9) 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.



August 5, 2021

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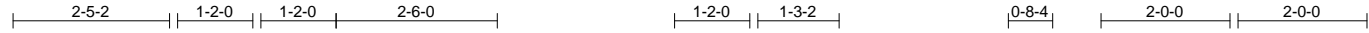
Job 201026	Truss FB01	Truss Type FLOOR	Qty 4	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 I47314798
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Builders Inc., Aurora, CO - 80011,

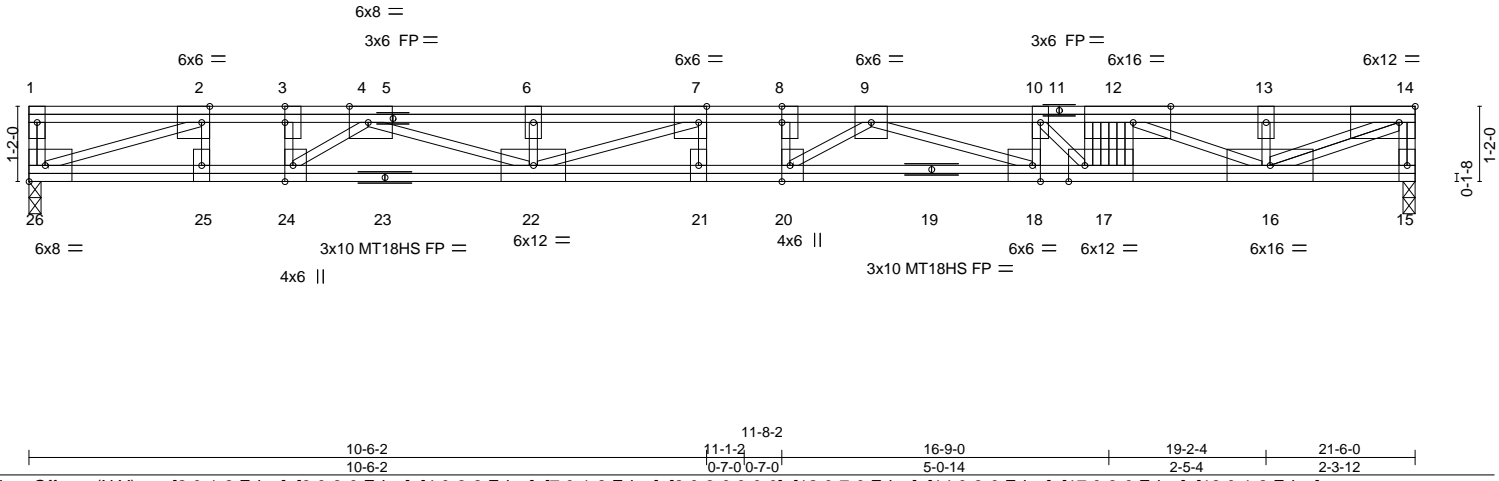
8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:59 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-W5bSvtLUpRv5LWF8iA_JxaK4jEw9ItW1GmHqAyrAWM

Job Reference (optional)



Scale = 1:35.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.63	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.87	Vert(LL) -0.62 18-20 >409 360	MT18HS	197/144
BCLL 0.0	Lumber DOL 1.00	WB 0.70	Vert(CT) -0.69 18-20 >369 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.08 15 n/a n/a		
	Code IRC2018/TPI2014			Weight: 284 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 23-26: 2x4 SPF No.2(flat)	
2x4 SPF No.2(flat)	

REACTIONS. (size) 26=0-2-4, 15=0-2-4
Max Grav 26=1616(LC 1), 15=3453(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 14-15=-3467/0, 2-3=-5041/0, 3-4=-5041/0, 4-6=-10596/0, 6-7=-10596/0, 7-8=-13308/0, 8-9=-13308/0, 9-10=-15660/0, 10-12=-15447/0, 12-13=-7842/0, 13-14=-7801/0
 BOT CHORD 25-26=0/5041, 24-25=0/5041, 22-24=0/7658, 21-22=0/13308, 20-21=0/13308, 18-20=0/14575, 17-18=0/15660, 16-17=0/15476
 WEBS 2-25=0/675, 3-24=0/1365, 7-21=0/281, 8-20=0/613, 2-26=-5342/0, 7-22=-2908/0, 4-22=0/3157, 4-24=-3301/0, 9-18=0/1210, 9-20=-1569/0, 12-17=-343/0, 10-17=-280/1, 14-16=0/8520, 13-16=-377/0, 12-16=-8156/0

- NOTES-**
- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
 - 2) Unbalanced floor live loads have been considered for this design.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 3x6 MT20 unless otherwise indicated.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 15.
 - 6) 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.
 - 7) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3200 lb down at 16-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 15-26=-8, 1-14=-80



Continued on page 2

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Job 201026	Truss FB01	Truss Type FLOOR	Qty 4	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314798
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:25:59 2021 Page 2
ID:QS8hjBL9CIM8AxVMglothazLZKy-W5bSvtLUpRv5LWF8iA_JxaK4jEw9ItW1GmHqqAyrAWM

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 12=-3200(F)
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-8, 1-14=-80
Concentrated Loads (lb)
Vert: 12=-3200(F)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-8, 1-8=-80, 8-14=-16
Concentrated Loads (lb)
Vert: 12=-3200(F)
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-8, 1-2=-16, 2-14=-80
Concentrated Loads (lb)
Vert: 12=-3200(F)
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-8, 1-8=-80, 8-14=-16
Concentrated Loads (lb)
Vert: 12=-3200(F)
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-8, 1-2=-16, 2-14=-80
Concentrated Loads (lb)
Vert: 12=-3200(F)

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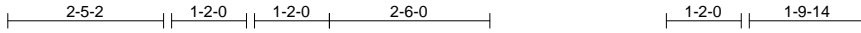
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss FB02	Truss Type Floor	Qty 84	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314799
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:00 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-_H9q6DM6al1yygqKGtVYtnt9xeEP1O?AVQ00McyrAWL



Scale = 1:35.9

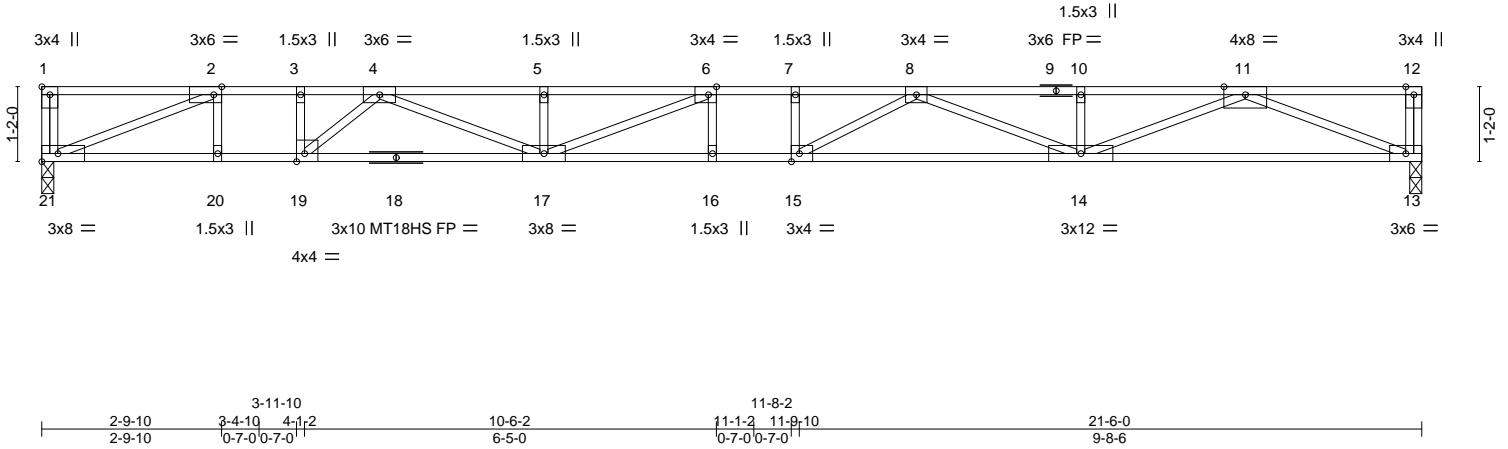


Plate Offsets (X, Y)--	[1:Edge,0-1-8], [2:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]
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LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.98	Vert(LL)	-0.51	16	>502	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-0.70	17-19	>365	240	MT18HS	220/195
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.09	13	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 DF-N 1800F 1.6E(flat) *Except* 9-12: 2x4 SPF No.2(flat)	TOP CHORD Sheathed or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 1800F 1.6E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 17-19.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 21=0-2-4, 13=0-2-4
Max Grav 21=779(LC 1), 13=779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2029/0, 3-4=-2029/0, 4-5=-3730/0, 5-6=-3730/0, 6-7=-3951/0, 7-8=-3951/0,
 8-10=-2964/0, 10-11=-2964/0
 BOT CHORD 20-21=0/2029, 19-20=0/2029, 17-19=0/2894, 16-17=0/3951, 15-16=0/3951, 14-15=0/3691,
 13-14=0/1744
 WEBS 2-20=0/285, 3-19=0/509, 2-21=-2184/0, 6-17=-265/170, 4-17=0/929, 4-19=-1167/0,
 11-13=-1876/0, 11-14=0/1317, 8-14=-784/0, 8-15=0/538

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21, 13.
 - 4) 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.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 5, 2021

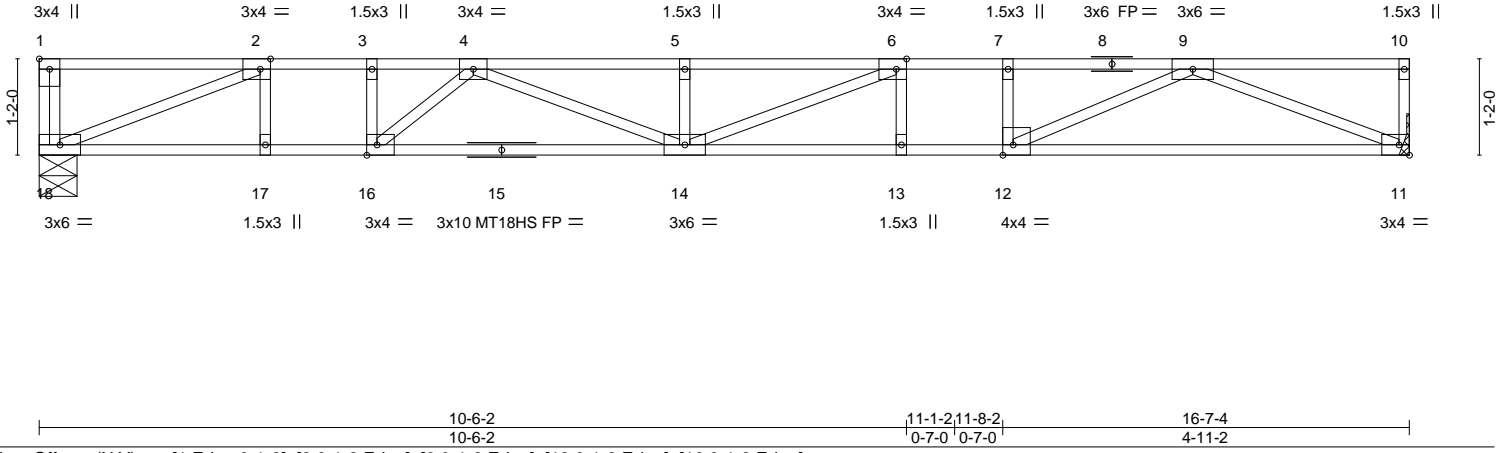
Job 201026	Truss FB03	Truss Type Floor	Qty 32	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314800
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:01 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-TUjCJZNkL3ApaqPWpb0n0?QMI2almt?Jk4mxv3yrAWK



Scale = 1:27.9



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85	Vert(LL)	-0.31 14-16	>643	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.99	Vert(CT)	-0.43 14-16	>463	240	MT18HS	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.04 11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						

Weight: 64 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 DF-N 1800F 1.6E(flat) *Except*
11-15: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 18=0-5-8, 11=Mechanical
Max Grav 18=602(LC 1), 11=602(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1489/0, 3-4=-1489/0, 4-5=-2446/0, 5-6=-2446/0, 6-7=-2092/0, 7-9=-2092/0
BOT CHORD 17-18=0/1489, 16-17=0/1489, 14-16=0/2025, 13-14=0/2092, 12-13=0/2092, 11-12=0/1280
WEBS 3-16=0/297, 2-18=-1603/0, 6-14=0/518, 4-14=0/489, 4-16=-739/0, 9-11=-1381/0,
9-12=0/900

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 5, 2021

Job 201026	Truss FB04	Truss Type FLOOR GIRDER	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 I47314801
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8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:02 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-xgHaXvNN6MlgCz_jNIY0YCydlSxEVH8TykVURVyrAWJ



Scale = 1:26.6

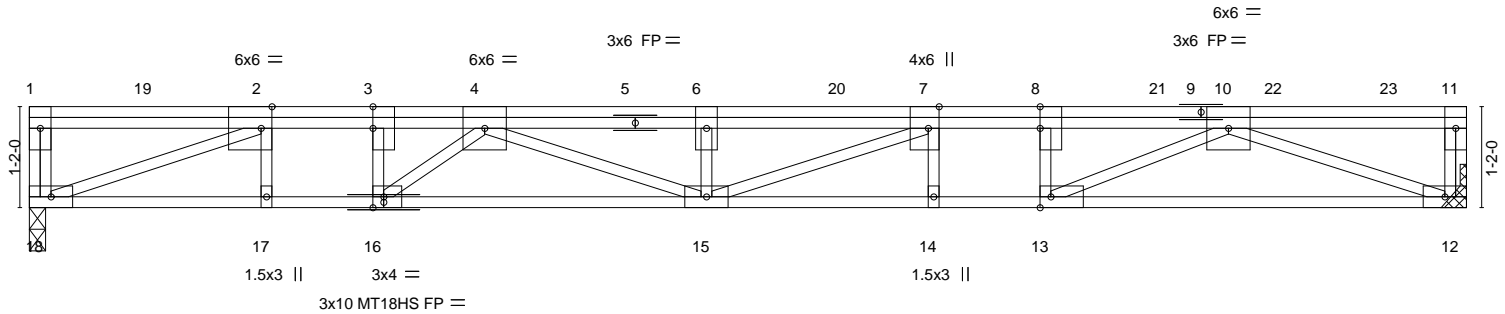


Plate Offsets (X, Y)--	[2:0-1-8,Edge], [3:0-3-0,0-0], [7:0-3-0,Edge], [8:0-3-0,0-0], [13:0-1-8,Edge], [16:0-1-8,Edge]
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LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.48	Vert(LL)	-0.21 14-15	>943	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.91	Vert(CT)	-0.29 15-16	>672	240	MT18HS	197/144
BCLL 0.0	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.06 12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 81 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 18=0-2-4, 12=Mechanical
Max Grav 18=757(LC 1), 12=810(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1869/0, 3-4=-1869/0, 4-6=-2922/0, 6-7=-2922/0, 7-8=-2594/0, 8-10=-2594/0
BOT CHORD 17-18=0/1869, 16-17=0/1869, 15-16=0/2494, 14-15=0/2594, 13-14=0/2594, 12-13=0/1742
WEBS 3-16=-37/477, 8-13=-333/64, 2-18=-1996/0, 7-15=-125/424, 4-15=-80/471, 4-16=-826/107, 10-12=-1860/0, 10-13=-96/940

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
 - 6) 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.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down at 1-4-8, 92 lb down at 2-8-8, 101 lb up at 4-0-12, 101 lb up at 5-4-12, 101 lb up at 6-8-12, 101 lb up at 8-0-12, 101 lb up at 9-4-12, 101 lb up at 10-5-4, 13 lb down and 101 lb up at 11-9-4, 109 lb down at 13-1-4, and 109 lb down at 14-5-4, and 109 lb down at 15-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-18=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 2=-74(B) 19=-74(B) 21=-74(B) 22=-74(B) 23=-74(B)



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Job 201026	Truss FB06	Truss Type Floor	Qty 20	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314802
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8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:02 2021 Page 1
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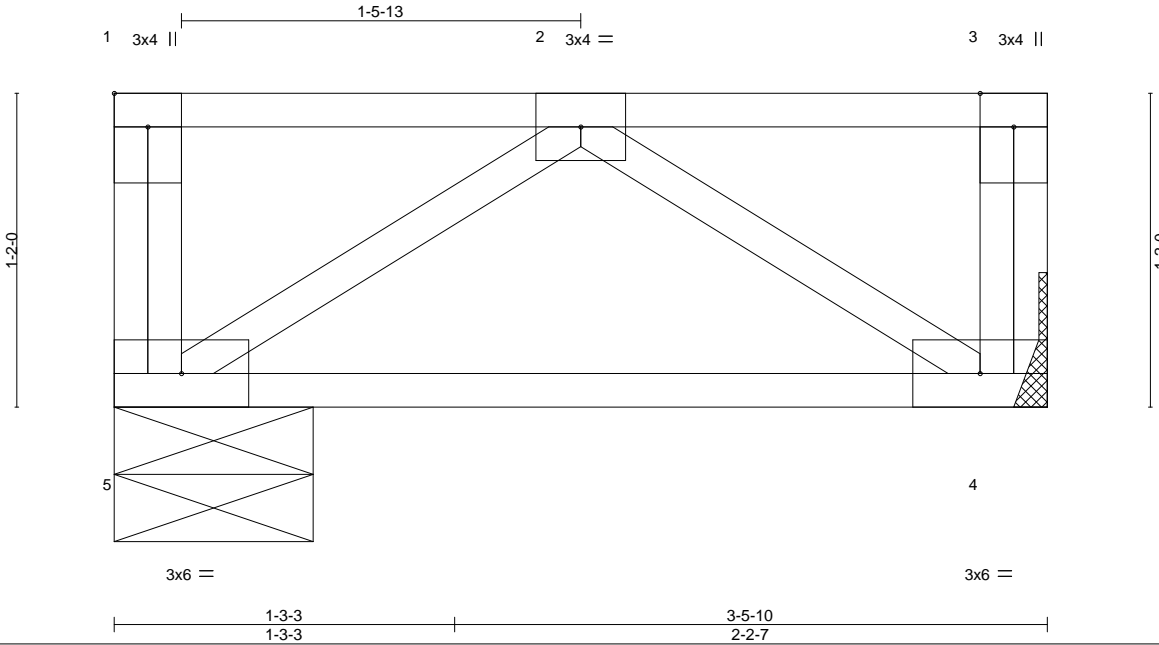


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING- 1-4-0	TC	0.09	in	(loc)	l/defl	L/d	MT20	197/144
TCLL 40.0	Plate Grip DOL 1.00	BC	0.08	Vert(LL)	0.00	5	****		
TCDL 10.0	Lumber DOL 1.00	WB	0.02	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P		Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2018/TPI2014							Weight: 16 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Sheathed or 3-5-10 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 5=0-8-14, 4=Mechanical
Max Grav 5=118(LC 1), 4=118(LC 1)

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

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 5, 2021

Job 201026	Truss FB07	Truss Type Floor	Qty 28	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14	147314803
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:02 2021 Page 1

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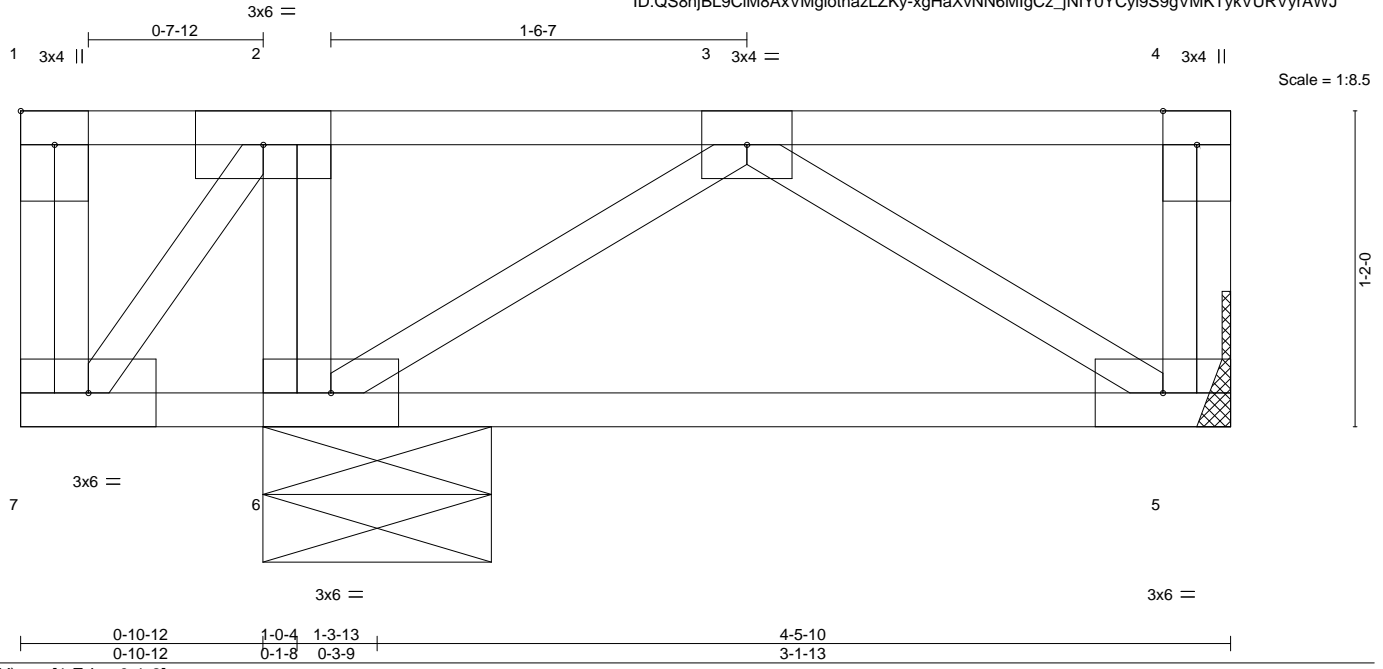


Plate Offsets (X,Y)--	[1:Edge,0-1-8]									
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.17	Vert(LL) 0.00	5-6	>999	360		MT20	197/144
TCDL 10.0	Lumber DOL 1.00		BC 0.05	Vert(CT) -0.01	5-6	>999	240			
BCLL 0.0	Rep Stress Incr NO		WB 0.12	Horz(CT) -0.00	5	n/a	n/a			
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2(flat)		TOP CHORD	Sheathed or 4-5-10 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)		BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)			

REACTIONS. (size) 5=Mechanical, 6=0-10-2
 Max Uplift 5=57(LC 3)
 Max Grav 5=39(LC 4), 6=577(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-7=-322/0, 2-3=0/270
 BOT CHORD 6-7=-270/0
 WEBS 2-6=-405/0, 2-7=0/414, 3-6=-273/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 5-7=-7, 1-4=-67
 Concentrated Loads (lb)
 Vert: 1=-300

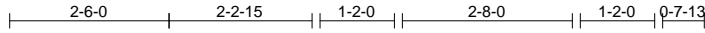


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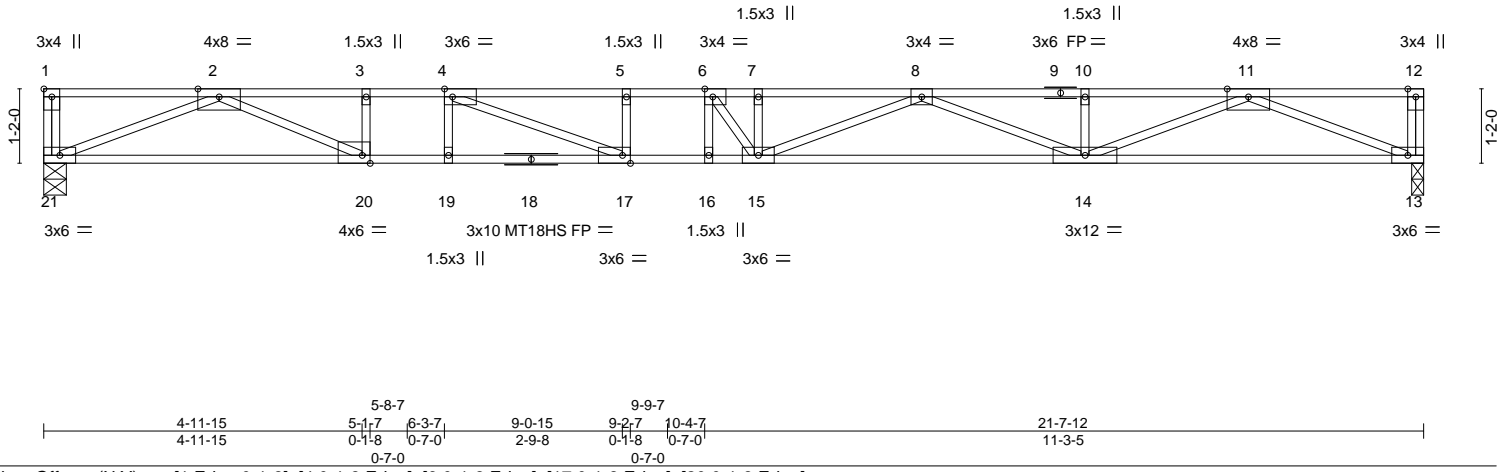
Job 201026	Truss FC02	Truss Type Floor	Qty 36	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314804
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:03 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-PsrykFO?tgQXp7Zvx03F5QVjVsJmEk2cBOF2zxyrAWI



Scale = 1:36.1



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.77	Vert(LL)	-0.51 17-19	>502	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.70 17-19	>367	240	MT18HS	220/195
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.08 13	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat) *Except* 1-9: 2x4 DF-N 1800F 1.6E(flat)	TOP CHORD Sheathed or 5-6-9 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 2400F 2.0E(flat) *Except* 13-18: 2x4 DF-N 1800F 1.6E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 21=0-4-4, 13=0-2-4
Max Grav 21=785(LC 1), 13=785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3087/0, 3-4=-3087/0, 4-5=-4008/0, 5-6=-4008/0, 6-7=-4038/0, 7-8=-4038/0,
8-10=-2991/0, 10-11=-2991/0
BOT CHORD 20-21=0/1775, 19-20=0/3087, 17-19=0/3087, 16-17=0/4008, 15-16=0/4008, 14-15=0/3735,
13-14=0/1759
WEBS 3-20=-363/0, 4-19=-266/0, 5-17=-265/0, 2-21=-1910/0, 2-20=0/1440, 4-17=0/1116,
11-13=-1893/0, 11-14=0/1330, 8-14=-802/0, 8-15=0/327, 6-15=0/364

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 4) 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.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



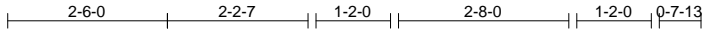
August 5, 2021

Job 201026	Truss FC03	Truss Type Floor	Qty 14	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314805 Job Reference (optional)
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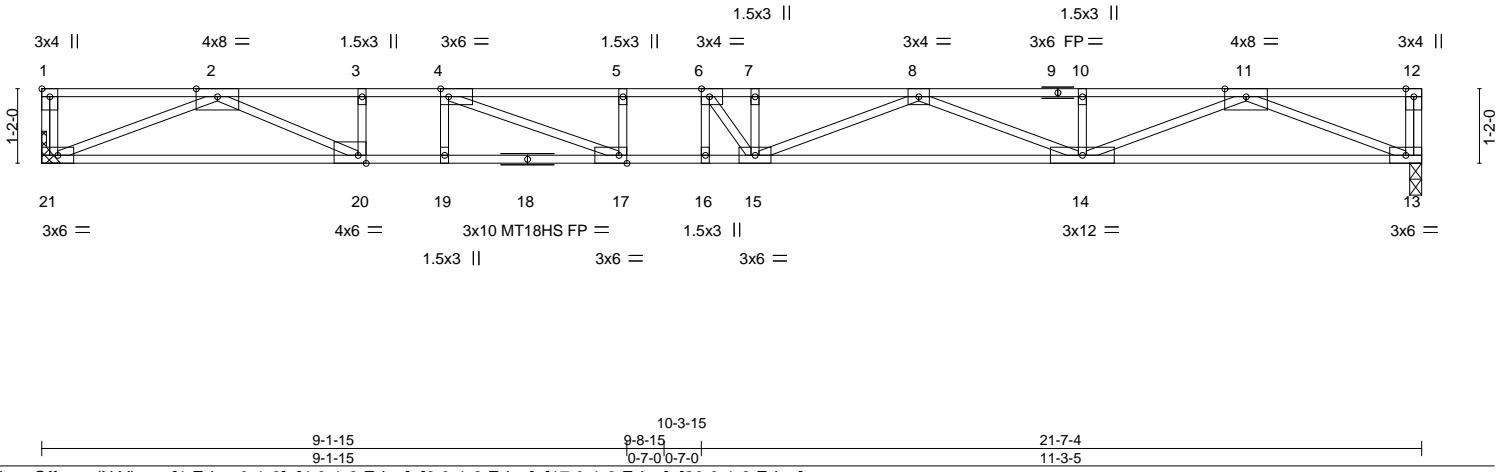
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8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:04 2021 Page 1

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Scale = 1:36.1



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.77	Vert(LL)	-0.51 17-19	>505	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.69 17-19	>369	240	MT18HS	220/195
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.08 13	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat) *Except* 1-9: 2x4 DF-N 1800F 1.6E(flat)	TOP CHORD Sheathed or 5-7-1 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 2400F 2.0E(flat) *Except* 13-18: 2x4 DF-N 1800F 1.6E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 21=Mechanical, 13=0-2-4
Max Grav 21=783(LC 1), 13=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3065/0, 3-4=-3065/0, 4-5=-3991/0, 5-6=-3991/0, 6-7=-4023/0, 7-8=-4023/0,
 8-10=-2984/0, 10-11=-2984/0
 BOT CHORD 20-21=0/1772, 19-20=0/3065, 17-19=0/3065, 16-17=0/3991, 15-16=0/3991, 14-15=0/3723,
 13-14=0/1755
 WEBS 3-20=-364/0, 4-19=-266/0, 5-17=-266/0, 2-21=-1906/0, 2-20=0/1423, 4-17=0/1119,
 11-13=-1889/0, 11-14=0/1326, 8-14=-798/0, 8-15=0/323, 6-15=0/366

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 5) 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.
 - 6) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



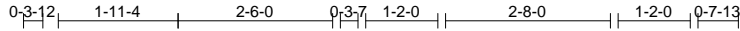
August 5, 2021

Job 201026	Truss FC04	Truss Type Floor	Qty 6	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314806
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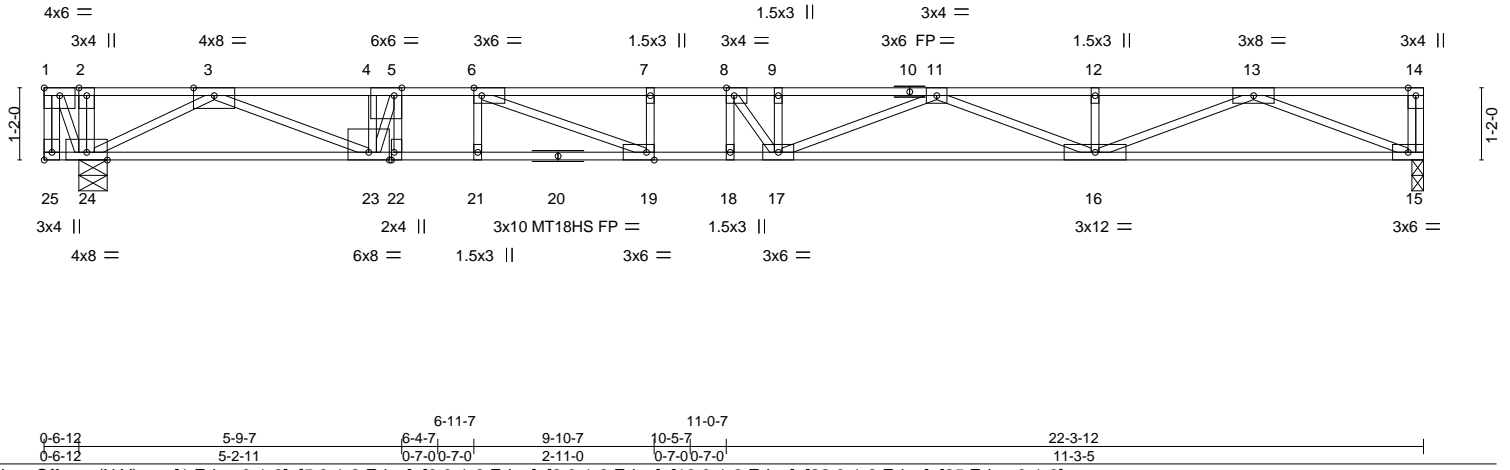
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8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:04 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-t3PLybPde_YORH85VjaUed2vsFdVzBGmQ2_bVnYrAWH



Scale = 1:37.3



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.73	Vert(LL)	-0.46	18	>562	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.86	Vert(CT)	-0.63	18	>409	MT18HS	220/195
BCLL 0.0	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.08	15	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 97 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat) *Except* 1-10: 2x4 DF-N 1800F 1.6E(flat)	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF-N 2400F 2.0E(flat) *Except* 15-20: 2x4 DF-N 1800F 1.6E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 15=0-2-4, 24=0-5-8
Max Grav 15=778(LC 4), 24=1140(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-2589/0, 4-5=-2589/0, 5-6=-3074/0, 6-7=-3924/0, 7-8=-3924/0, 8-9=-3977/0,
 9-11=-3977/0, 11-12=-2961/0, 12-13=-2961/0
 BOT CHORD 23-24=0/1248, 22-23=0/3074, 21-22=0/3074, 19-21=0/3074, 18-19=0/3924, 17-18=0/3924,
 16-17=0/3689, 15-16=0/1743
 WEBS 5-22=0/735, 6-21=-280/0, 3-24=-1557/0, 3-23=0/1449, 4-23=0/401, 5-23=-1469/0,
 6-19=0/1032, 13-15=-1875/0, 13-16=0/1314, 11-16=-786/0, 11-17=0/312, 8-17=0/401,
 1-24=-327/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
 - 4) 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.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 15-25=-7, 1-14=-67
 Concentrated Loads (lb)
 Vert: 1=-300

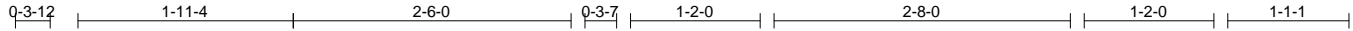


August 5, 2021

Job	Truss	Truss Type	Qty	Ply	201026-Skytor-Ralston-Bldg 1 - Type 14
201026	FC05	Floor	12	1	147314807

Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:05 2021 Page 1
ID:QS8hjBL9CjM8AxVMglothazLZKy-LFzj9xQFPHgF3RjH2R5jAra4Vf_CiiYvfik92qyrAWG



Scale = 1:20.7

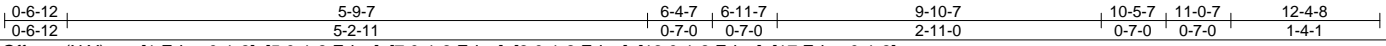
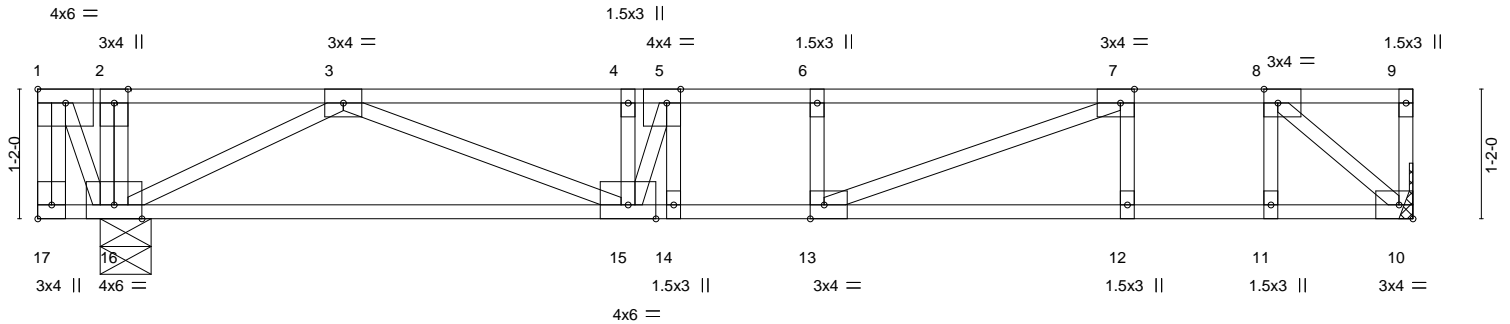


Plate Offsets (X, Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [13:0-1-8,Edge], [17:Edge,0-1-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.67	Vert(LL)	-0.15 12-13	>944	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.20 12-13	>681	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.15	Horz(CT)	0.01 10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 51 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 10=Mechanical, 16=0-5-8
Max Grav 10=409(LC 4), 16=786(LC 1)

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

TOP CHORD 3-4=-1051/0, 4-5=-1051/0, 5-6=-1126/0, 6-7=-1126/0, 7-8=-649/0
BOT CHORD 15-16=0/559, 14-15=0/1126, 13-14=0/1126, 12-13=0/649, 11-12=0/649, 10-11=0/649
WEBS 8-11=0/255, 3-16=-794/0, 3-15=0/534, 5-15=-434/0, 7-13=0/524, 8-10=-854/0, 1-16=-333/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-17=-7, 1-9=-67

Concentrated Loads (lb)

Vert: 1=-300



August 5, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

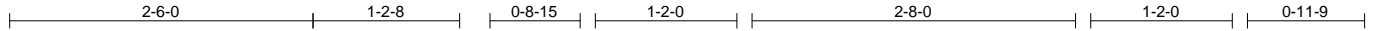


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss FC06	Truss Type Floor	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 I47314808
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:06 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-pRW5NHQtAbo5gbIUc8cyj27163PTRAg2tMTiaGyrAWF



Scale = 1:19.0

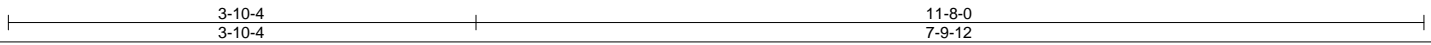
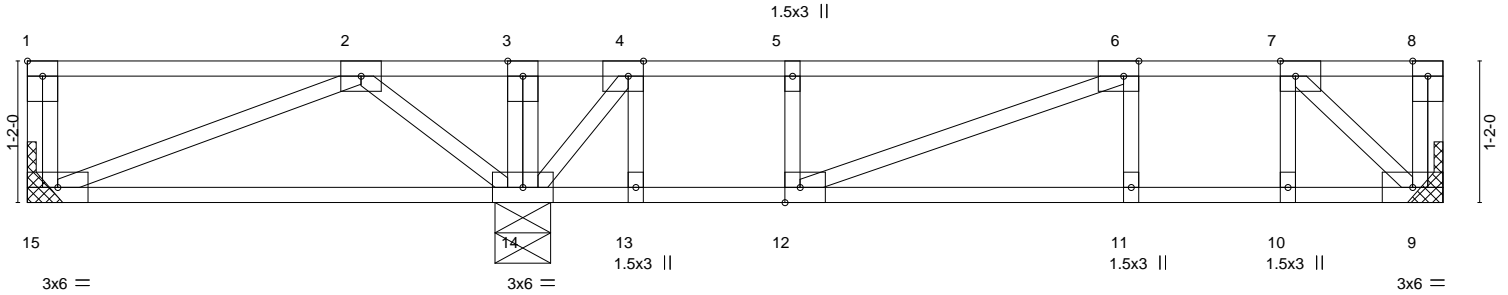


Plate Offsets (X, Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL) -0.10 11-12 >872 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.51	Vert(CT) -0.14 11-12 >623 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 9 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S			
				Weight: 48 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15.

REACTIONS. (size) 15=Mechanical, 9=Mechanical, 14=0-5-8
Max Grav 15=127(LC 3), 9=255(LC 4), 14=484(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-270/0, 5-6=-270/0, 6-7=-365/0
BOT CHORD 13-14=0/270, 12-13=0/270, 11-12=0/365, 10-11=0/365, 9-10=0/365
WEBS 2-14=-289/0, 4-14=-628/0, 7-9=-492/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



August 5, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



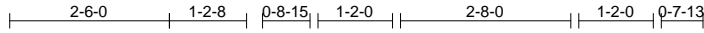
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss FC07	Truss Type Floor	Qty 4	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314809
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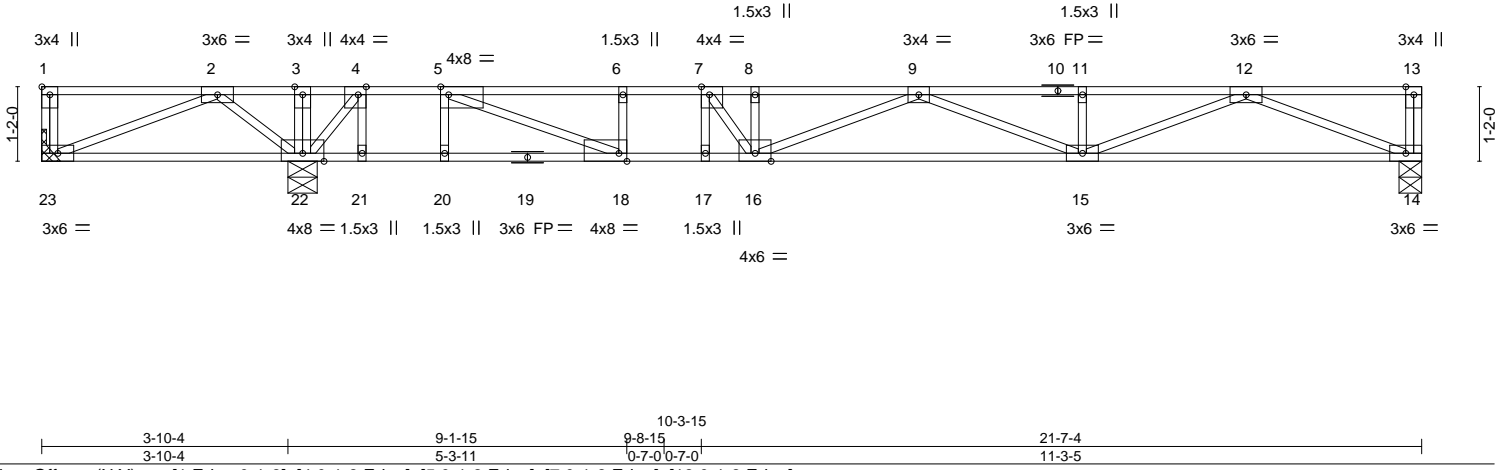
Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:06 2021 Page 1

ID:QS8hjBL9CIM8AxVMglothazLZKy-pRW5NHQtAbo5gblUc8cyj27Cc3KGR4C2tMTiaGyrAWF



Scale = 1:36.1



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.84	Vert(LL)	-0.24	16-17	>881	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.78	Vert(CT)	-0.33	16-17	>642		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.03	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 90 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat) *Except*
1-10: 2x4 DF-N 2400F 2.0E(flat)
BOT CHORD 2x4 DF-N 1800F 1.6E(flat) *Except*
14-19: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

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

REACTIONS. (size) 23=Mechanical, 22=0-5-8, 14=0-4-4
Max Uplift 23=294(LC 4)
Max Grav 23=45(LC 3), 22=1201(LC 1), 14=563(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1333, 3-4=0/1337, 4-5=0/316, 5-6=-1492/0, 6-7=-1492/0, 7-8=-1872/0,
8-9=-1872/0, 9-11=-1892/0, 11-12=-1892/0
BOT CHORD 22-23=-799/0, 21-22=-316/0, 20-21=-316/0, 18-20=-316/0, 17-18=0/1492, 16-17=0/1492,
15-16=0/2087, 14-15=0/1202
WEBS 4-21=0/500, 5-20=-335/0, 6-18=-425/0, 7-17=-265/0, 3-22=0/365, 2-23=0/860,
2-22=810/0, 4-22=-1675/0, 5-18=0/1803, 12-14=-1293/0, 12-15=0/745, 9-16=-297/0,
8-16=-334/0, 7-16=0/753

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=294.
 - 4) 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

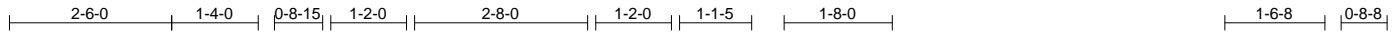


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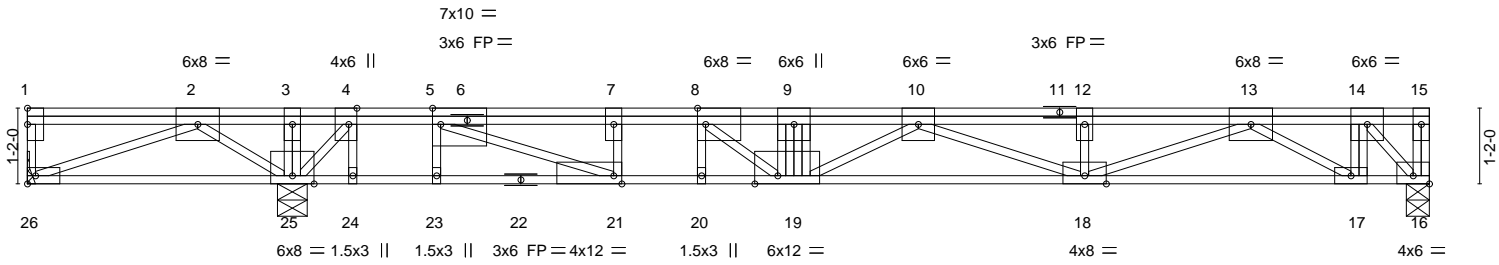
Job 201026	Truss FC08	Truss Type FLOOR	Qty 2	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	147314810
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8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:07 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-He4TacRVxvyltGAr7BFGgMATgcAQoC60DF6iyRAWE



Scale = 1:35.5



3-10-4	9-1-15	9-8-15	11-9-12	20-6-4	21-7-4
3-10-4	5-3-11	0-7-0	0-7-0	8-8-8	1-1-0
Plate Offsets (X, Y)-- [4:0-3-0,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge], [16:Edge,0-1-8], [19:0-4-4,Edge], [21:0-1-8,Edge]					

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.28	19-20	>750	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.38	19-20	>547		
BCLL 0.0	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.03	16	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 236 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat) *Except*
1-11,1-6: 2x4 DF-N 1800F 1.6E(flat)
BOT CHORD 2x4 SPF No.2(flat) *Except*
16-22: 2x4 DF-N 1800F 1.6E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 25=0-5-8, 26=Mechanical, 16=0-4-4
Max Uplift 26=1029(LC 4)
Max Grav 25=3156(LC 1), 16=1942(LC 4)

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

TOP CHORD 2-3=0/4495, 3-4=0/4521, 4-5=0/1350, 5-7=-5017/0, 7-8=-5017/0, 8-9=-7988/0,
9-10=-7942/0, 10-12=-5649/0, 12-13=-5649/0, 13-14=-1860/0
BOT CHORD 25-26=-2676/0, 24-25=-1350/0, 23-24=-1350/0, 21-23=-1350/0, 20-21=0/5017,
19-20=0/5017, 18-19=0/6998, 17-18=0/3514, 16-17=0/1860
WEBS 4-24=0/482, 5-23=-361/0, 7-21=-1826/0, 8-20=-380/0, 3-25=0/1392, 2-26=0/2864,
2-25=-2352/0, 4-25=-4688/0, 5-21=0/6621, 13-17=-1917/0, 13-18=0/2286, 12-18=-269/0,
10-18=-1444/0, 10-19=0/1166, 8-19=0/3717, 9-19=-2389/0, 14-17=0/1000,
14-16=-2660/0

NOTES-

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
- 2) Unbalanced floor live loads have been considered for this design.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 26=1029.
- 6) 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.
- 7) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 9) CAUTION, Do not erect truss backwards.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 11-9-12, and 800 lb down at 20-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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



August 5, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job 201026	Truss FC08	Truss Type FLOOR	Qty 2	Ply 2	201026-Skytor-Ralston-Bldg 1 - Type 14 Job Reference (optional)	I47314810
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:07 2021 Page 2
ID:QS8hjBL9CIM8AxVMglothazLZKy-He4TacRVxvwylltgAr7BFGgMATgcAQoC60DF6iyraWE

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 16-26=-8, 1-15=-80

Concentrated Loads (lb)

Vert: 9=-1500(F) 14=-800(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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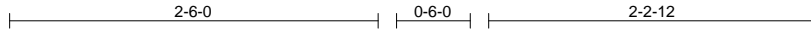


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 201026	Truss FC09	Truss Type Floor	Qty 2	Ply 1	201026-Skytor-Ralston-Bldg 1 - Type 14 147314811
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Builders Inc., Aurora, CO - 80011,

8.510 s Jun 18 2021 MiTek Industries, Inc. Wed Aug 4 16:26:08 2021 Page 1
ID:QS8hjBL9CIM8AxVMglothazLZKy-lqernyS7iC2pwwRskZeQoTCiRt9_v4hLLgype9yrAWD



Scale = 1:15.6

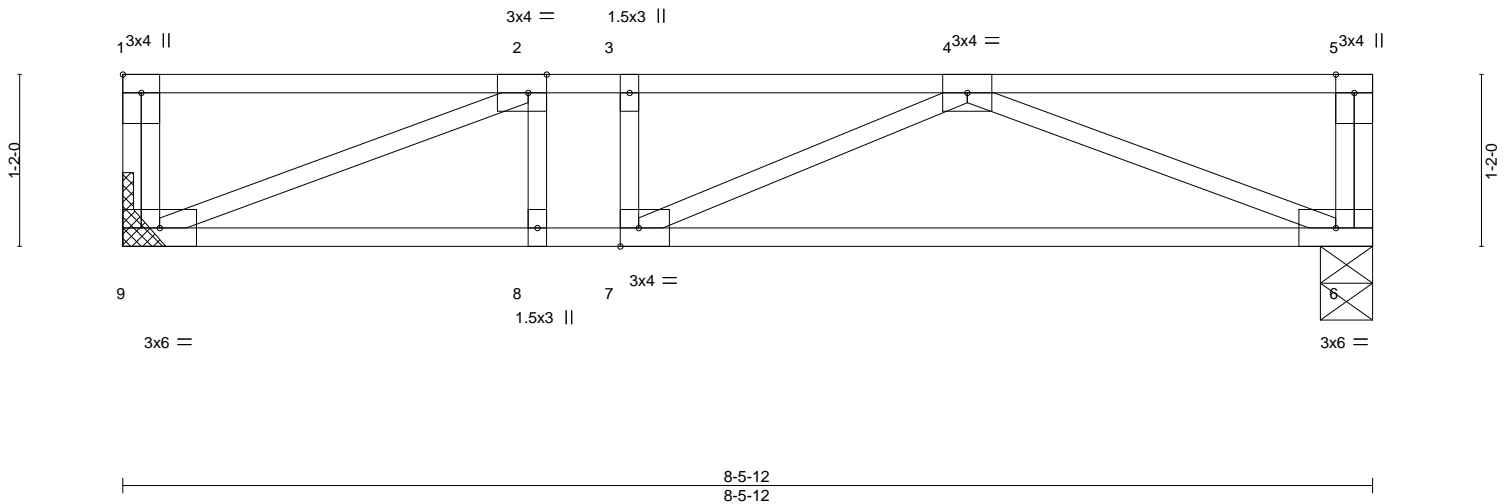


Plate Offsets (X, Y)--	[1:Edge,0-1-8], [2:0-1-8,Edge], [7:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.24	Vert(LL) -0.04 6-7 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.25	Vert(CT) -0.08 6-7 >999 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01 6 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 34 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 9=Mechanical, 6=0-4-4
Max Grav 9=302(LC 1), 6=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-582/0, 3-4=-582/0
BOT CHORD 8-9=0/582, 7-8=0/582, 6-7=0/550
WEBS 4-6=-591/0, 2-9=-625/0

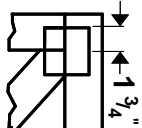
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



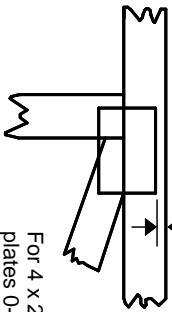
August 5, 2021

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

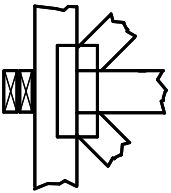
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



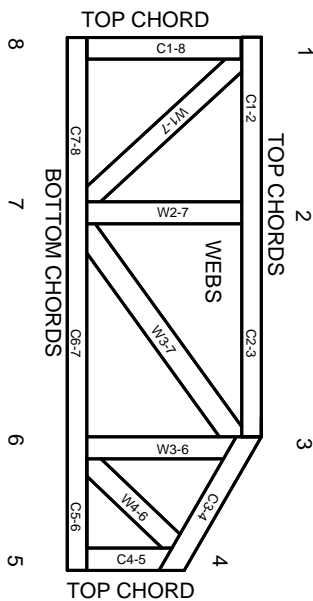
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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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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 T or 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. Reviewing 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.



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020