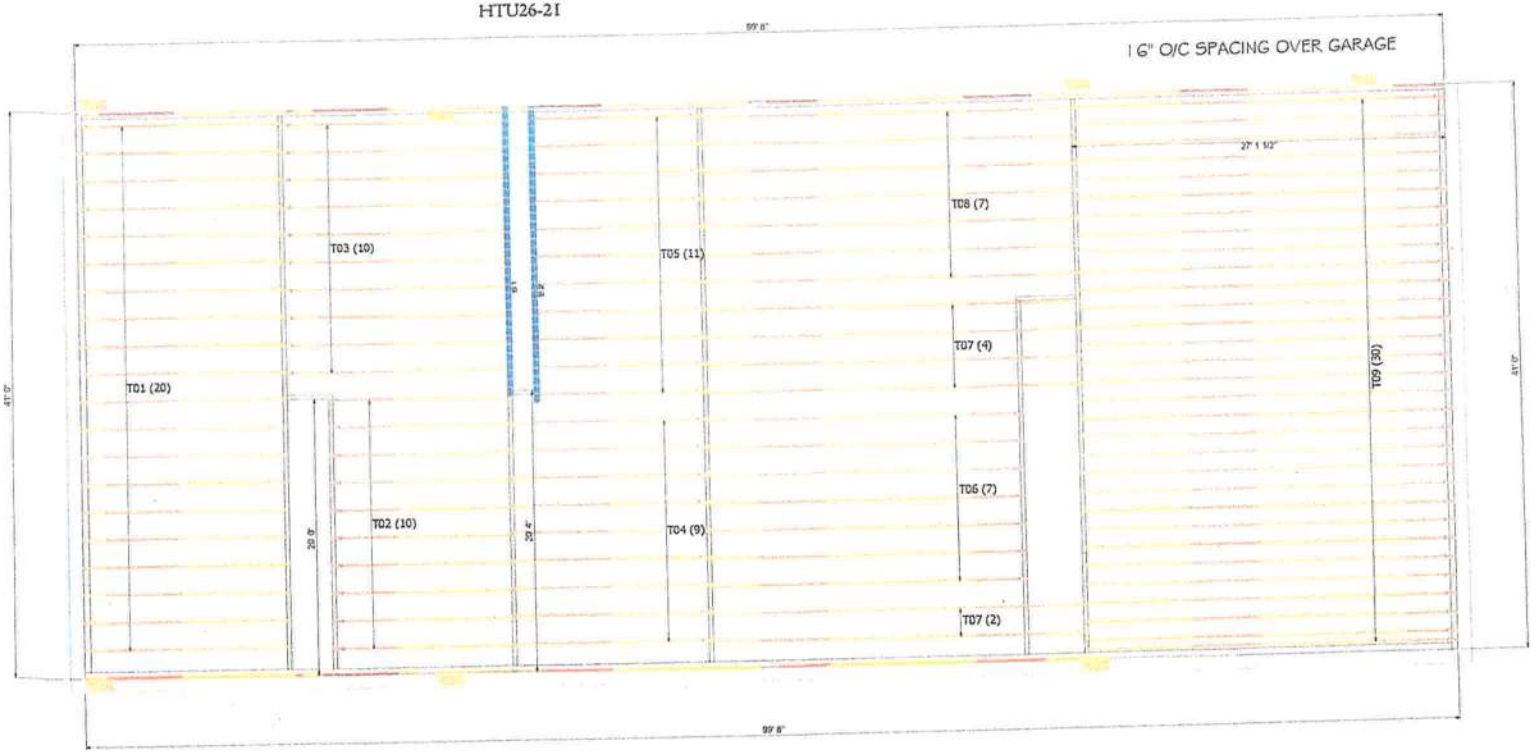
HANGERS
HTU26-21



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN SHOULD CORRESPOND WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.

General Notes

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.
- Use 10d x 1 1/2" nails in hanger connections to single ply girder trusses
- Trusses are not designed to support loads U.N.O.
- Dimensions are Feet-Inches-Eighths

Notes

No back charges will be accepted by Builders FirstSource unless approved in writing first 850-973-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. toenailed on table) must have an approved barrier applied first.

Refer to BCSI-B3 Summary Sheet Guide for handling, Installing and Bracing of Metal Plate Connected Wood Trusses prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect ... so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed so to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder
Smith O.B

Legal Address
Columbia County FL

Model
Smith Res.

Date	Drawn By	Original Ref #
10-30-20	LT-KLH	1810974
Floor 1 Job#	Floor 2 Job#	Roof Job #

COLUMBIA COUNTY BUILDING DEPARTMENT
PLANS EXAMINER
FILE COPY
Received for Code Compliance

MITEK PLATE APPROVAL #'S 2197.2 - 2197.4

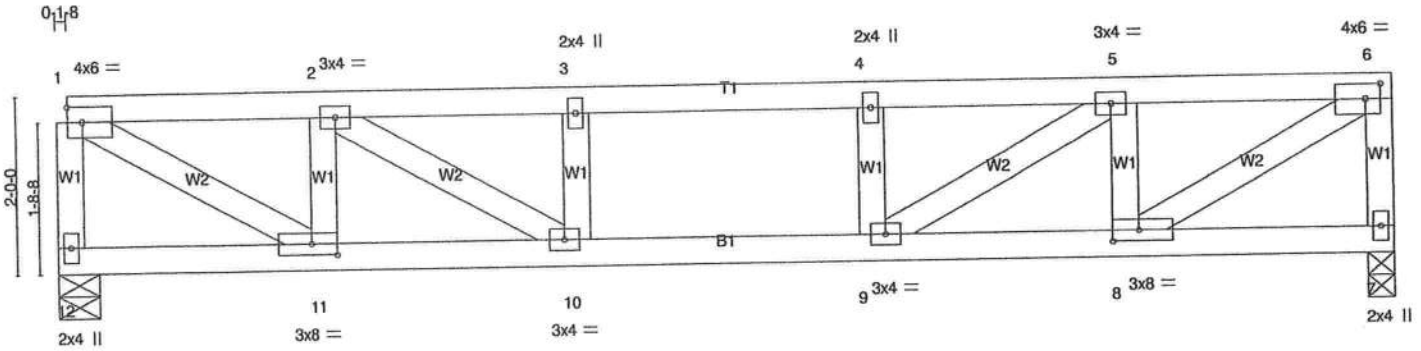
Job	Truss	Truss Type	Qty	Ply	
1810974	T01	FLOOR	20	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-Ey7fmMCV27794K08h4QfSiqQOgj4U_CIzeIj19yOD1t

2-11-13 | 5-9-15 | 9-1-9 | 11-11-10 | 14-8-0 | 14-11-8
2-11-13 | 2-10-1 | 3-3-11 | 2-10-1 | 2-8-6 | 0-3-8

Scale = 1:25.0



2-11-13 | 5-9-15 | 9-1-9 | 11-11-10 | 14-8-0 | 14-11-8
2-11-13 | 2-10-1 | 3-3-11 | 2-10-1 | 2-8-6 | 0-3-8

Plate Offsets (X,Y)-- [6:0-2-0,0-2-0], [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	9	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 74 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1027/0-5-8, 7=1027/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-986/0, 1-2=-1409/0, 2-3=-2131/0, 3-4=-2131/0, 4-5=-2131/0, 5-6=-1411/0, 6-7=-986/0
BOT CHORD 10-11=0/1409, 9-10=0/2131, 8-9=0/1411
WEBS 1-11=0/1597, 2-11=-779/0, 5-8=-779/0, 6-8=0/1598, 3-10=-372/0, 2-10=0/977, 4-9=-371/0, 5-9=0/976

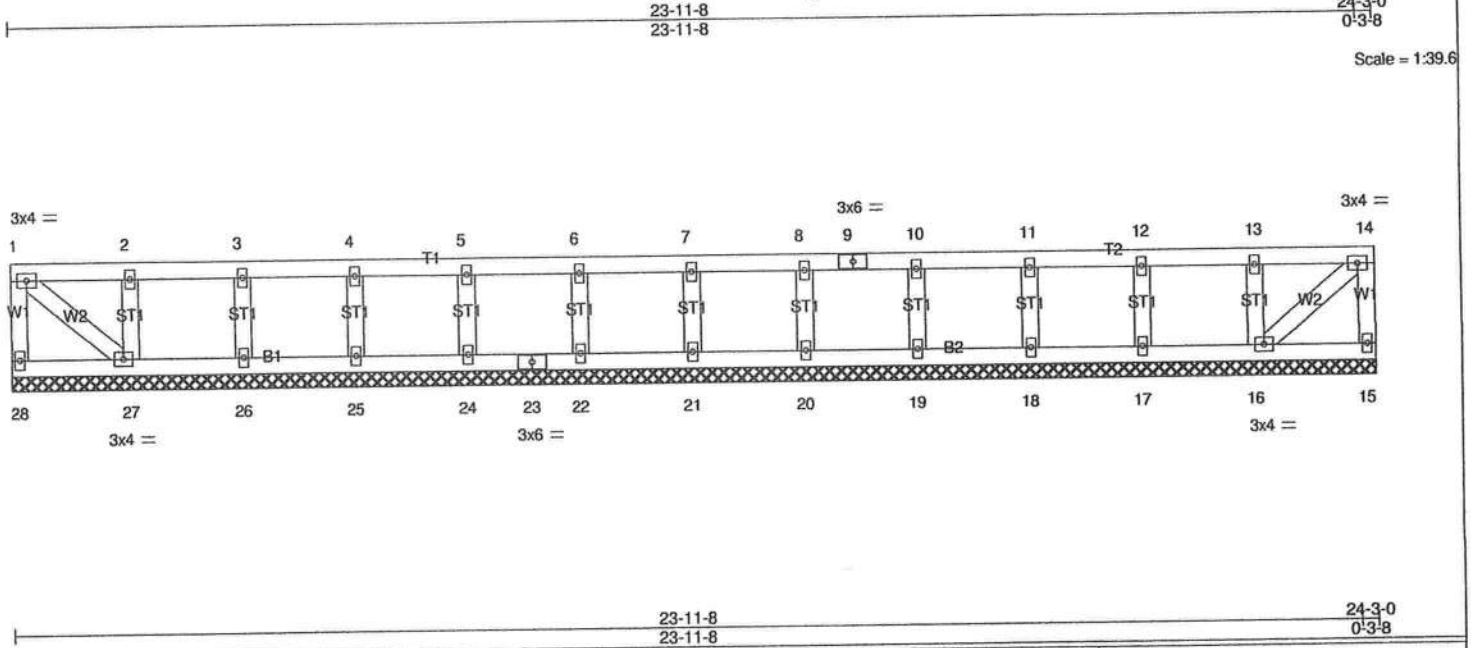
NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T01G	FLOOR	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-i9g1ziD7pRF0iUaKFoxu?vNgN3DKDcOSCI1HacyOD1s



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 106 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 27-28,15-16.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15 except 21=280(LC 1), 22=280(LC 1), 24=280(LC 1), 25=281(LC 1), 26=275(LC 1), 27=313(LC 1), 20=280(LC 1), 19=280(LC 1), 18=281(LC 1), 17=275(LC 1), 16=313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-27=-260/0, 13-16=-260/0

NOTES- (6)
1) All plates are 2x4 MT20 unless otherwise indicated.
2) The Fabrication Tolerance at joint 9 = 20%, joint 23 = 20%
3) Gable requires continuous bottom chord bearing.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

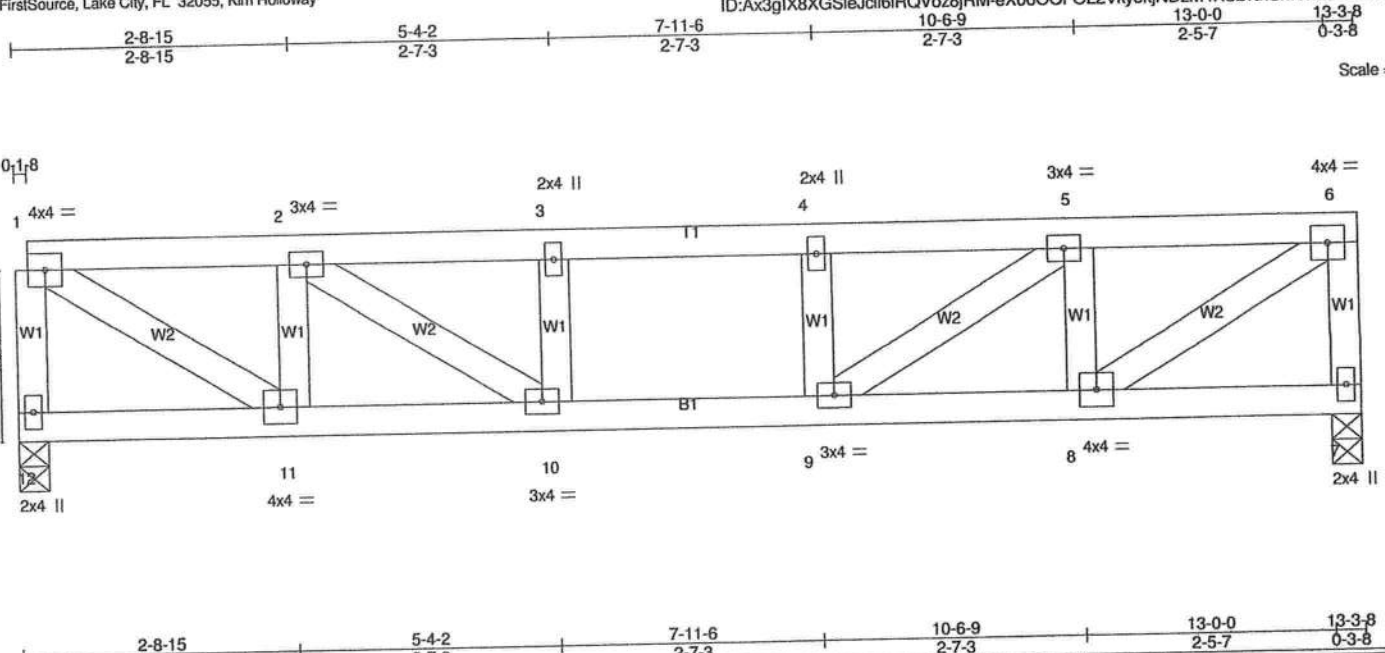
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T02	FLOOR	10	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:41 2020 Page 1

Builders FirstSource, Lake City, FL 32055, Kim Holloway

ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-eXooOOFOL2VkyokjNDzM4KSz1tnShN?kfcWOeUyOD1c



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.06	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 68 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=910/0-3-8, 7=910/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-873/0, 1-2=-1138/0, 2-3=-1684/0, 3-4=-1684/0, 4-5=-1684/0, 5-6=-1138/0, 6-7=-873/0
BOT CHORD 10-11=0/1138, 9-10=0/1684, 8-9=0/1138
WEBS 1-11=0/1322, 2-11=-684/0, 2-10=0/759, 3-10=-307/0, 4-9=-307/0, 5-9=0/759, 5-8=-684/0, 6-8=0/1322

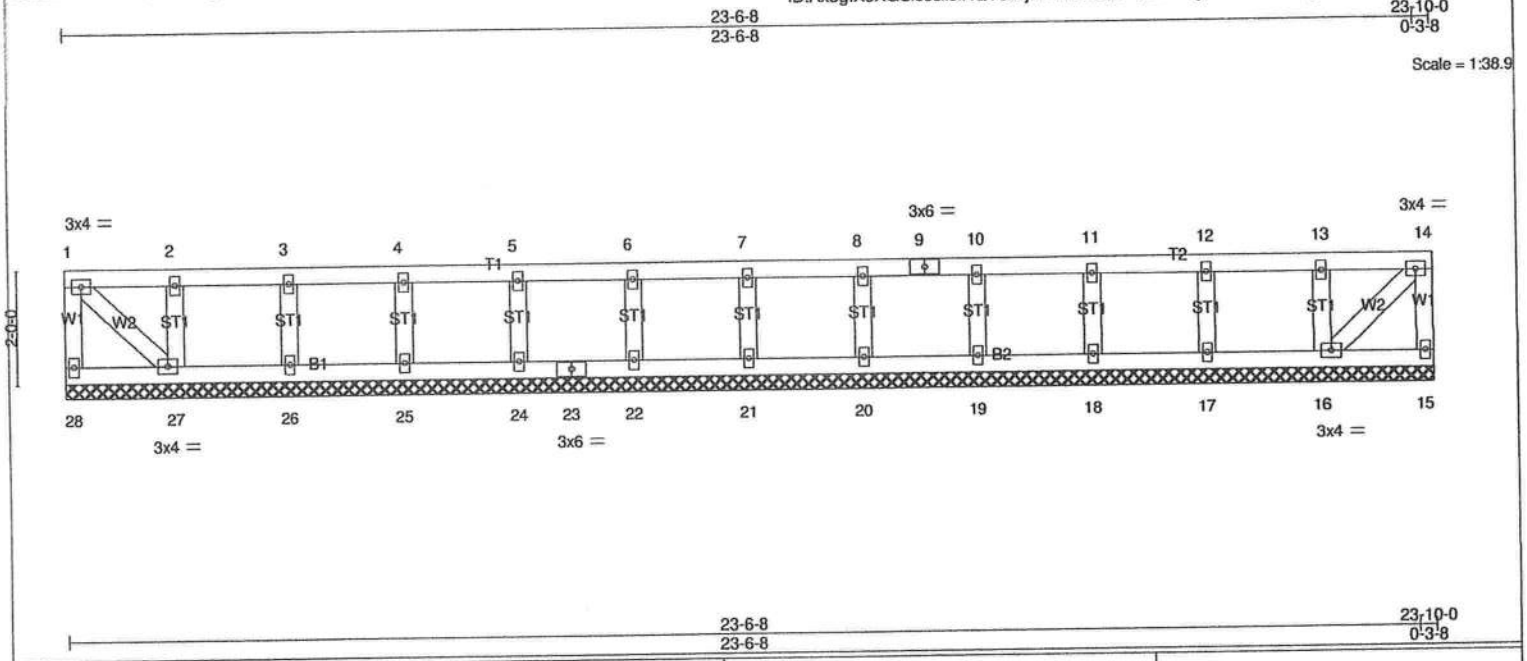
NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T02G	FLOOR	4	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:42 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-6kMAckF05MdbZyJvwwVbdY?BpHF3QzBuuGGxAxyOD1p



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 104 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 27-28,15-16.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15 except 21=280(LC 1), 22=280(LC 1), 24=280(LC 1), 25=280(LC 1), 26=280(LC 1), 27=294(LC 1), 20=280(LC 1), 19=280(LC 1), 18=280(LC 1), 17=280(LC 1), 16=294(LC 1)

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

NOTES- (6)
1) All plates are 2x4 MT20 unless otherwise indicated.
2) The Fabrication Tolerance at joint 9 = 20%, joint 23 = 20%
3) Gable requires continuous bottom chord bearing.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

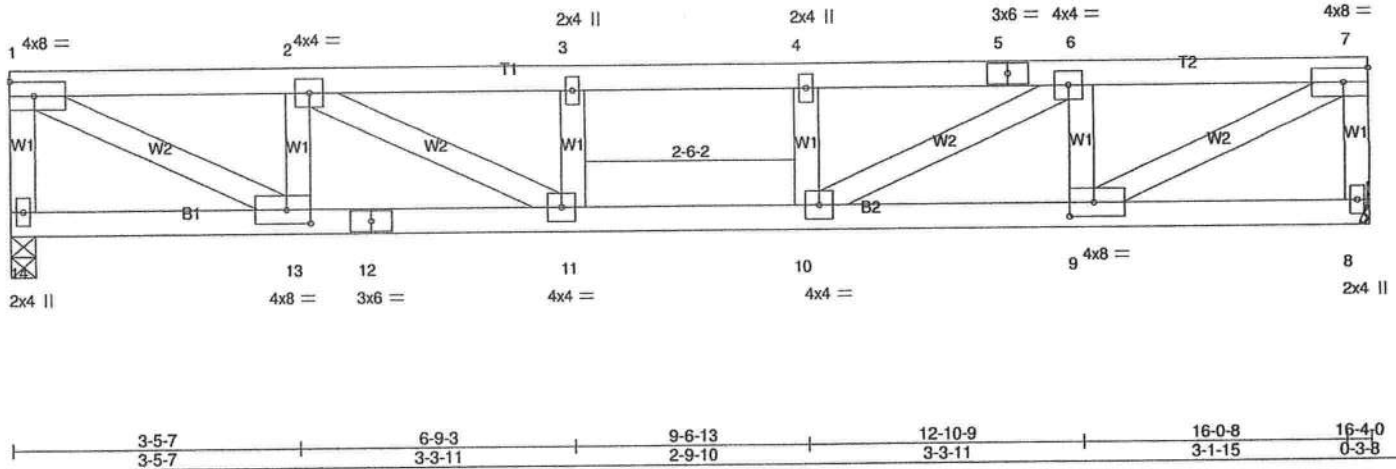
Job	Truss	Truss Type	Qty	Ply	
1810974	T03	FLOOR	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:43 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-bwwYp4GesfISB5u6Ue0q9IXHZhPf9Cr16w?UjNyOD1o

3-5-7 | 6-9-3 | 9-6-13 | 12-10-9 | 16-0-8 | 16-4-0
3-5-7 | 3-3-11 | 2-9-10 | 3-3-11 | 3-1-15 | 0-3-8

Scale = 1:26.9



3-5-7 | 6-9-3 | 9-6-13 | 12-10-9 | 16-0-8 | 16-4-0
3-5-7 | 3-3-11 | 2-9-10 | 3-3-11 | 3-1-15 | 0-3-8

Plate Offsets (X,Y)-- [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.19	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 81 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=1123/0-3-8, 8=1123/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1078/0, 1-2=-1782/0, 2-3=-2583/0, 3-4=-2583/0, 4-5=-2583/0, 5-6=-2583/0, 6-7=-1782/0, 7-8=-1078/0
BOT CHORD 12-13=0/1782, 11-12=0/1782, 10-11=0/2583, 9-10=0/1782
WEBS 1-13=0/1947, 2-13=-837/0, 2-11=0/1051, 3-11=-354/0, 4-10=-354/0, 6-10=0/1051, 6-9=-837/0, 7-9=0/1947

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 5 = 20%, joint 12 = 20%
3) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
4) Refer to girder(s) for truss to truss connections.
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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

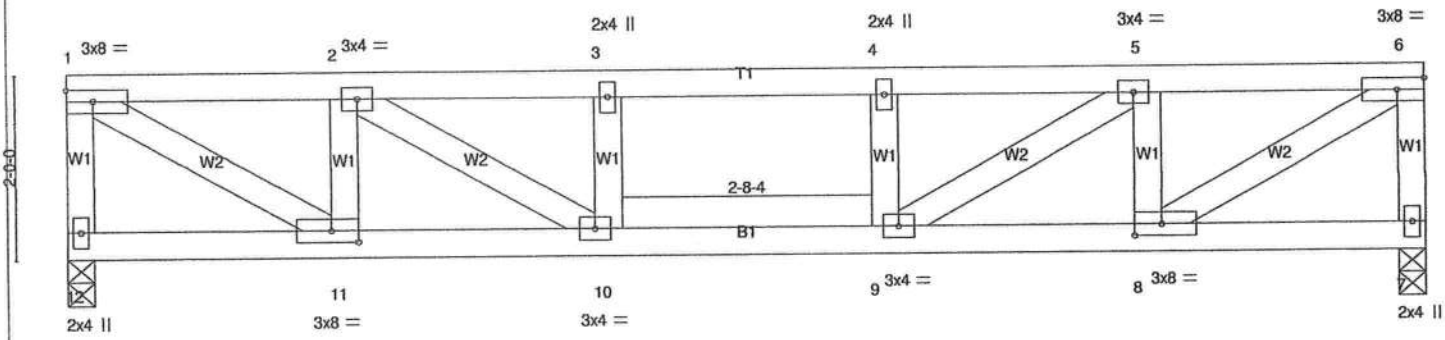
Job	Truss	Truss Type	Qty	Ply	
1810974	T04	FLOOR	9	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:44 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-36Uw1QHGdztJpFTI2LX3iz4Tr4n9ui?BLal2FpyOD1n

2-11-13 | 5-9-14 | 8-9-10 | 11-7-11 | 14-4-0 | 14-7-8
2-11-13 | 2-10-1 | 2-11-12 | 2-10-1 | 2-8-5 | 0-3-8

Scale: 1/2"=1'



2-11-13 | 5-9-14 | 8-9-10 | 11-7-11 | 14-4-0 | 14-7-8
2-11-13 | 2-10-1 | 2-11-12 | 2-10-1 | 2-8-5 | 0-3-8

Plate Offsets (X,Y)-- [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.13	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 73 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1003/0-3-8, 7=1003/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-963/0, 1-2=-1373/0, 2-3=-2044/0, 3-4=-2044/0, 4-5=-2044/0, 5-6=-1373/0, 6-7=-963/0
BOT CHORD 10-11=0/1373, 9-10=0/2044, 8-9=0/1373
WEBS 1-11=0/1556, 2-11=-757/0, 5-8=-757/0, 6-8=0/1556, 3-10=-346/0, 2-10=0/911, 4-9=-346/0, 5-9=0/911

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T05	FLOOR	11	1	Job Reference (optional)

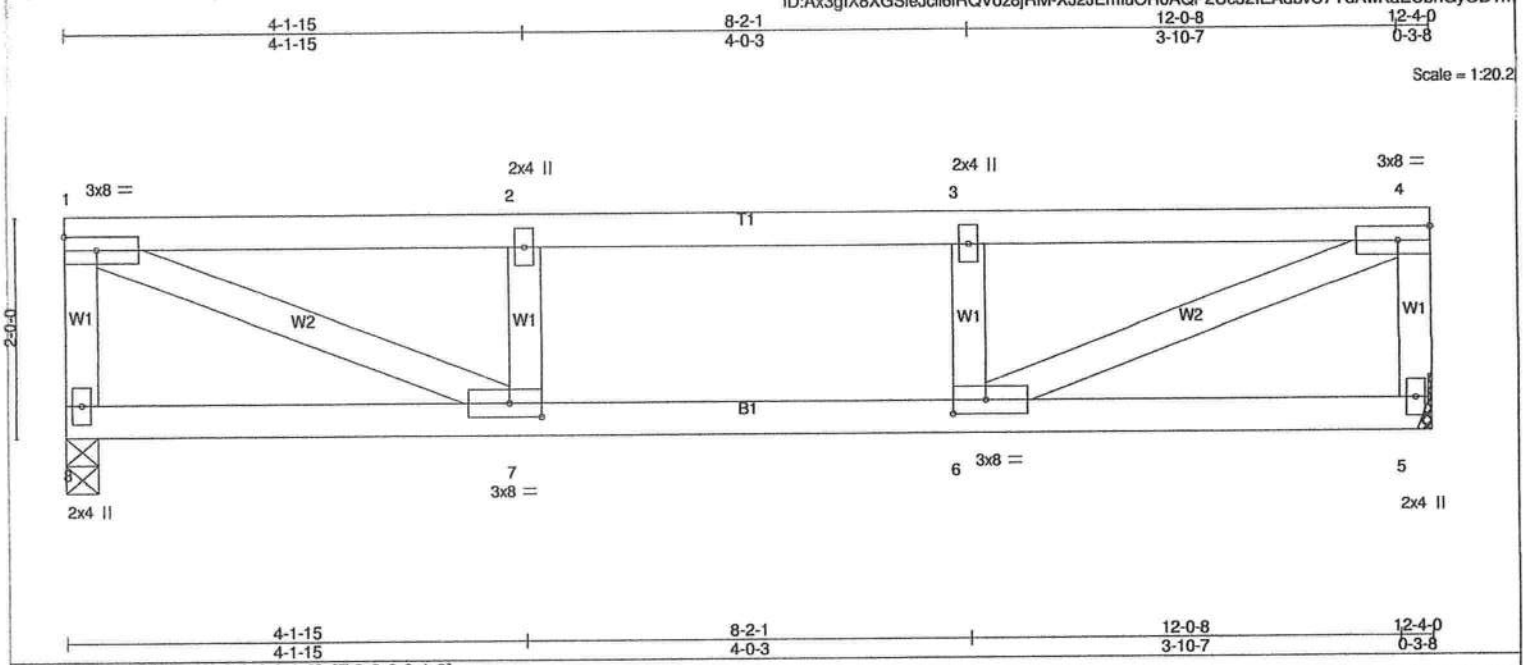


Plate Offsets (X,Y)-- [6:0-3-8,0-1-8], [7:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.10	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.12	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 57 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=843/0-3-8, 5=843/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-795/0, 1-2=-1412/0, 2-3=-1412/0, 3-4=-1412/0, 4-5=-795/0
BOT CHORD 6-7=0/1412
WEBS 1-7=0/1465, 2-7=-501/0, 3-6=-501/0, 4-6=0/1465

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
3) Refer to girder(s) for truss to truss connections.
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.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T06	FLOOR	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:47 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-Th93fRJ9wuGugjCtjT4mKbisOlnU52Yd1Yzis8yOD1k

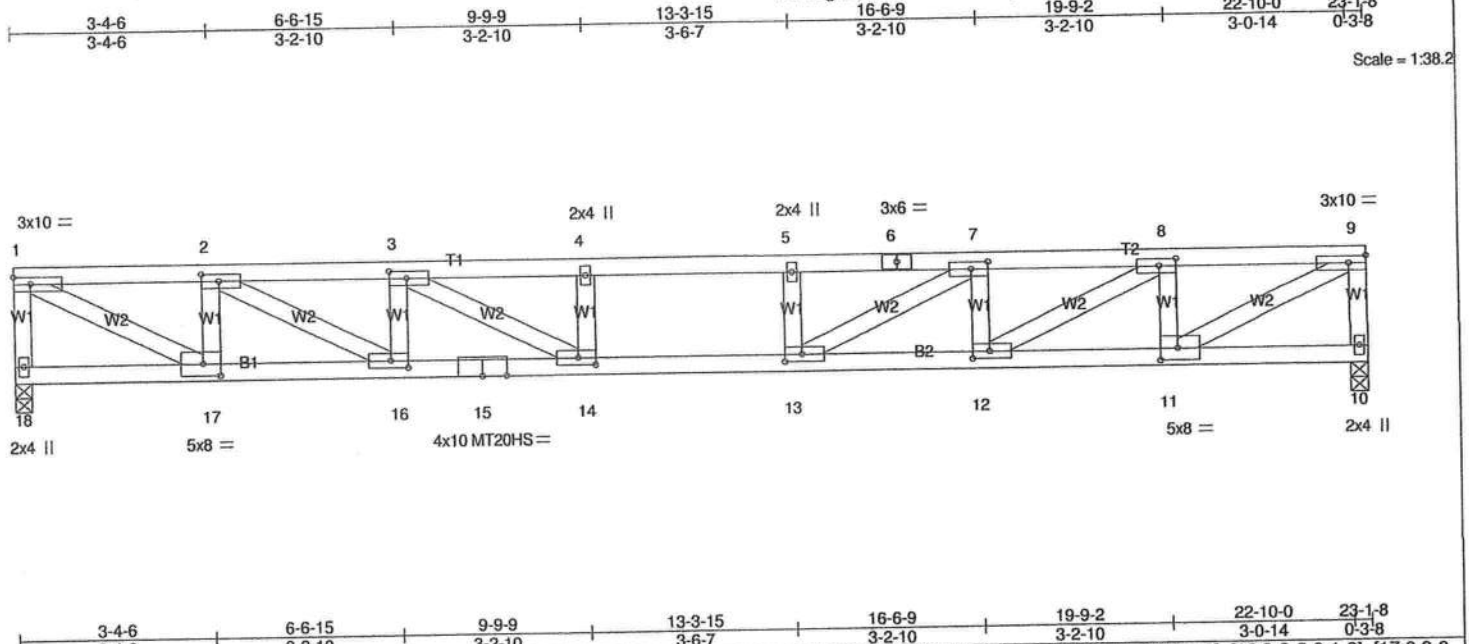


Plate Offsets (X,Y)-- [2:0-3-8,0-1-8], [3:0-3-8,0-1-8], [7:0-3-8,0-1-8], [8:0-3-8,0-1-8], [11:0-3-8,0-2-8], [12:0-3-8,0-1-8], [13:0-3-8,0-1-8], [14:0-3-8,0-1-8], [16:0-3-8,0-1-8], [17:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.43	13-14	>639	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.60	13-14	>456	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 115 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 18=1598/0-3-8, 10=1598/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1545/0, 1-2=-2621/0, 2-3=-4340/0, 3-4=-5227/0, 4-5=-5227/0, 5-6=-5227/0, 6-7=-5227/0, 7-8=-4340/0, 8-9=-2621/0, 9-10=-1545/0
BOT CHORD 16-17=0/2621, 15-16=0/4340, 14-15=0/4340, 13-14=0/5227, 12-13=0/4340, 11-12=0/2621
WEBS 1-17=0/2897, 2-17=-1315/0, 2-16=0/1947, 3-16=-845/0, 3-14=0/1440, 4-14=-408/0, 5-13=-408/0, 7-13=0/1440, 7-12=-845/0, 8-12=0/1947, 8-11=-1315/0, 9-11=0/2897

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x8 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 6 = 20%, joint 15 = 20%
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) 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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

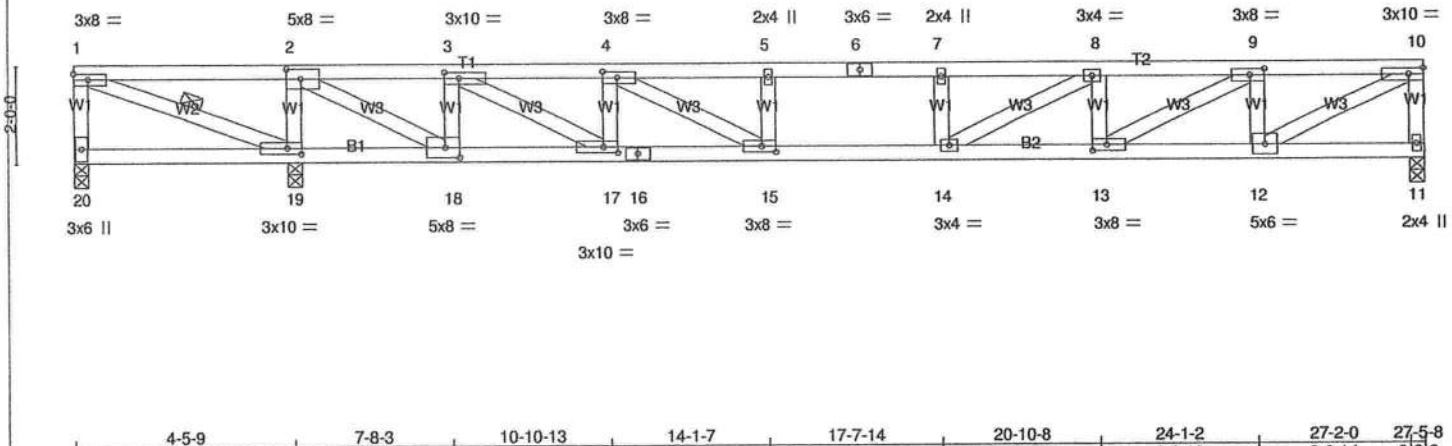
Job	Truss	Truss Type	Qty	Ply	
1810974	T07	FLOOR	6	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:48 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-xtjRsnKnhCOlHtm3HBb?spF5Bi8xqUamGBjFOayOD1j

4-5-9	7-8-3	10-10-13	14-1-7	17-7-14	20-10-8	24-1-2	27-2-0	27-5-8
4-5-9	3-2-10	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Scale = 1:45.5



4-5-9	7-8-3	10-10-13	14-1-7	17-7-14	20-10-8	24-1-2	27-2-0	27-5-8
4-5-9	3-2-10	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-1-8], [4:0-3-8,0-1-8], [9:0-3-8,0-1-8], [13:0-3-8,0-1-8], [15:0-3-8,0-1-8], [17:0-3-8,0-1-8], [18:0-3-8,0-2-8], [19:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.32	13-14	>848	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.45	13-14	>607	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 136 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20
4-10-7 oc bracing: 18-19.
WEBS 1 Row at midpt 1-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=-713/0-3-8, 11=1408/0-3-8, 19=3109/0-3-8 (req. 0-3-11)
Max Uplift20=-919(LC 4)
Max Grav 20=2(LC 3), 11=1409(LC 4), 19=3109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=0/921, 1-2=0/2355, 2-3=-449/0, 3-4=-2497/0, 4-5=-3980/0, 5-6=-3980/0, 6-7=-3980/0, 7-8=-3980/0, 8-9=-3682/0, 9-10=-2260/0, 10-11=-1356/0
BOT CHORD 18-19=-2355/0, 17-18=0/449, 16-17=0/2497, 15-16=0/2497, 14-15=0/3980, 13-14=0/3682, 12-13=0/2260
WEBS 1-19=-2490/0, 2-19=-2032/0, 2-18=0/3175, 3-18=-1464/0, 3-17=0/2345, 4-17=-1106/0, 7-14=-285/0, 8-14=-95/822, 8-13=-610/0, 9-13=0/1611, 9-12=-1139/0, 10-12=0/2491, 5-15=-565/0, 4-15=0/1806

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 6 = 20%, joint 16 = 20%
3) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 919 lb uplift at joint 20.
6) 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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

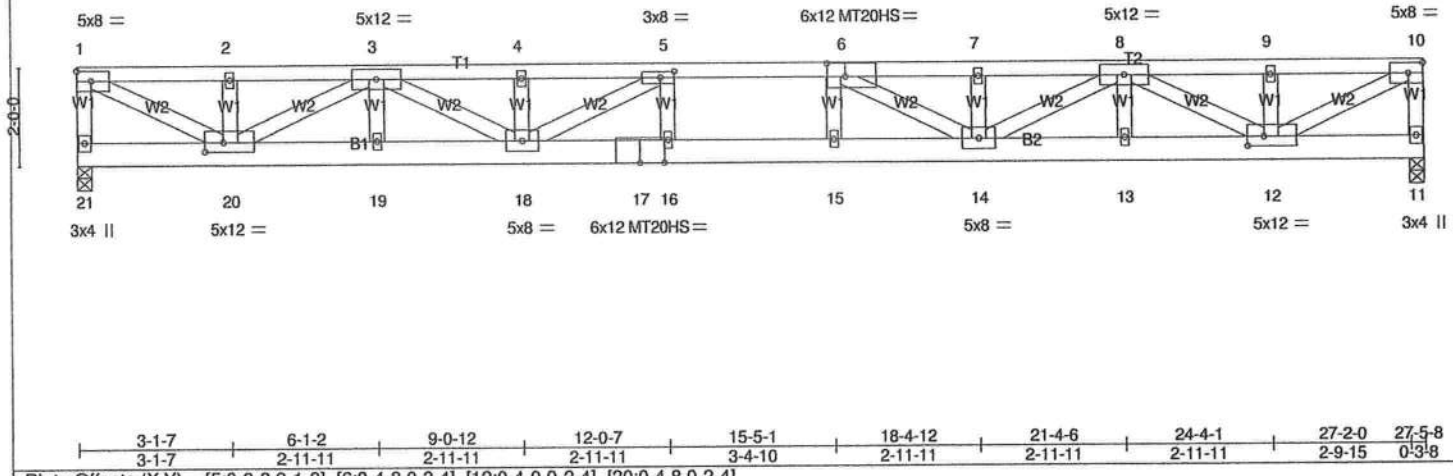
Job	Truss	Truss Type	Qty	Ply	
1810974	T08	FLOOR	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:50 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-tGrCHTM1DpeTXAwSOceTxEKQ8VrfINL3jVCMSTyOD1h

3-1-7	6-1-2	9-0-12	12-0-7	15-5-1	18-4-12	21-4-6	24-4-1	27-2-0	27-5-8
3-1-7	2-11-11	2-11-11	2-11-11	3-4-10	2-11-11	2-11-11	2-11-11	2-9-15	0-3-8

Scale = 1:45.5



3-1-7	6-1-2	9-0-12	12-0-7	15-5-1	18-4-12	21-4-6	24-4-1	27-2-0	27-5-8
3-1-7	2-11-11	2-11-11	2-11-11	3-4-10	2-11-11	2-11-11	2-11-11	2-9-15	0-3-8

Plate Offsets (X,Y)-- [5:0-3-8,0-1-8], [6:0-4-8,0-3-4], [12:0-4-0,0-2-4], [20:0-4-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.59	15-16	>557	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.82	15-16	>398	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 21=1902/0-3-8, 11=1902/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1784/0, 1-2=-3017/0, 2-3=-3017/0, 3-4=-6833/0, 4-5=-6833/0, 5-6=-7730/0, 6-7=-6819/0, 7-8=-6819/0, 8-9=-3017/0, 9-10=-3017/0, 10-11=-1784/0
BOT CHORD 19-20=0/5419, 18-19=0/5419, 17-18=0/7730, 16-17=0/7730, 15-16=0/7730, 14-15=0/7712, 13-14=0/5422, 12-13=0/5422
WEBS 1-20=0/3336, 2-20=-352/0, 3-20=-2738/0, 3-18=0/1611, 4-18=-354/29, 5-18=-1599/0, 5-16=-282/419, 6-15=-260/459, 6-14=-1585/0, 7-14=-332/44, 8-14=0/1593, 8-12=-2741/0, 9-12=-351/0, 10-12=0/3335

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 17 = 20%
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

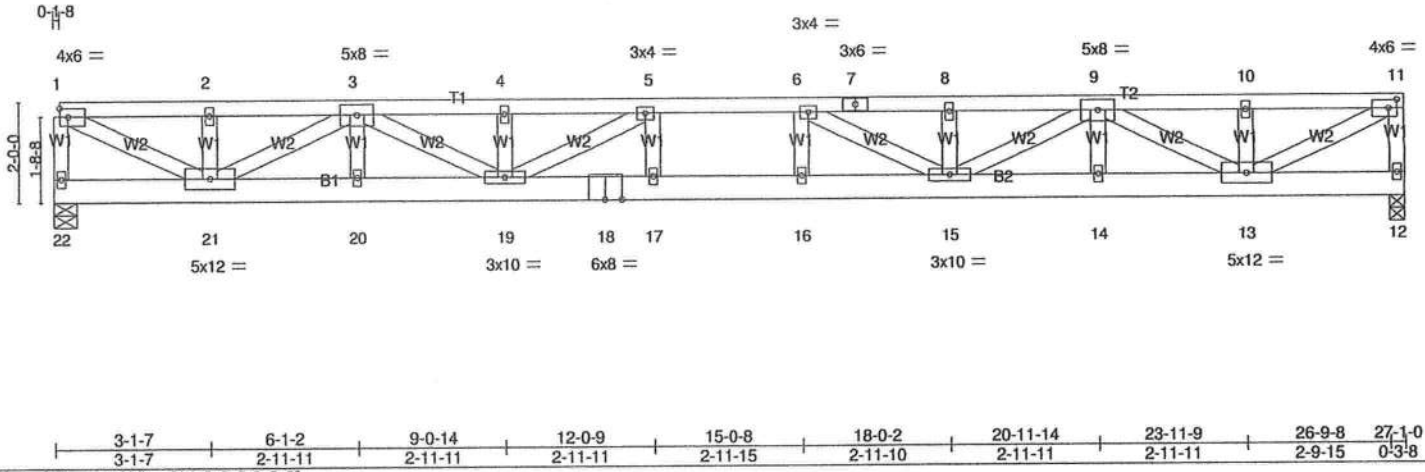
Job	Truss	Truss Type	Qty	Ply	
1810974	T09	FLOOR	30	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:52 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-qfzyi9NHlQuAmU4qW1gx1ePrRJZSmMuMBphTXMyOD1

3-1-7	6-1-2	9-0-14	12-0-9	15-0-8	18-0-2	20-11-14	23-11-9	26-9-8	27-1-0
3-1-7	2-11-11	2-11-11	2-11-11	2-11-15	2-11-10	2-11-11	2-11-11	2-9-15	0-3-8

Scale = 1:44.9



3-1-7	6-1-2	9-0-14	12-0-9	15-0-8	18-0-2	20-11-14	23-11-9	26-9-8	27-1-0
3-1-7	2-11-11	2-11-11	2-11-11	2-11-15	2-11-10	2-11-11	2-11-11	2-9-15	0-3-8

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

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.37	16-17	>868	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.52	16-17	>619	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 22=1250/0-5-8, 12=1250/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-1173/0, 1-2=-1982/0, 2-3=-1982/0, 3-4=-4464/0, 4-5=-4464/0, 5-6=-5029/0, 6-7=-4464/0, 7-8=-4464/0, 8-9=-4464/0, 9-10=-1982/0, 10-11=-1982/0, 11-12=-1173/0
BOT CHORD 20-21=0/3551, 19-20=0/3551, 18-19=0/5029, 17-18=0/5029, 16-17=0/5029, 15-16=0/5029, 14-15=0/3551, 13-14=0/3551
WEBS 1-21=0/2191, 3-21=-1788/0, 3-19=0/1040, 5-19=-1008/0, 5-17=-175/281, 6-16=-175/281, 6-15=-1008/0, 9-15=0/1040, 9-13=-1788/0, 11-13=0/2191

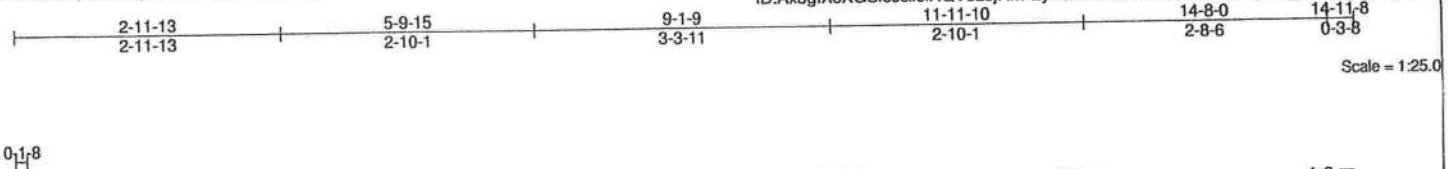
NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 2x4 MT20 unless otherwise indicated.
3) The Fabrication Tolerance at joint 7 = 20%, joint 18 = 20%
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Required 2x6 strongbacks, on 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.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

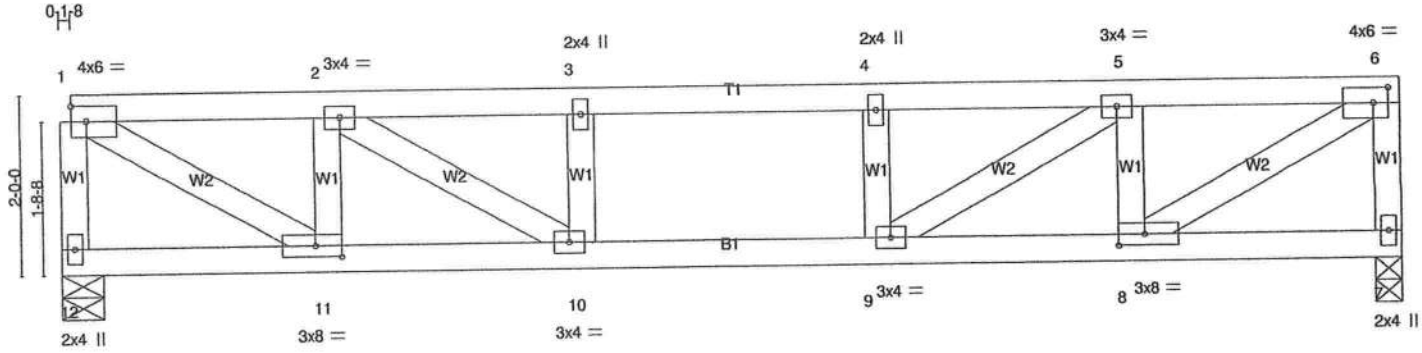
Job	Truss	Truss Type	Qty	Ply	
1810974	T01	FLOOR	20	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:38 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-Ey7fmMCV27794K08h4QfSiqQOgj4U_CIzelj19yOD1f



Scale = 1:25.0



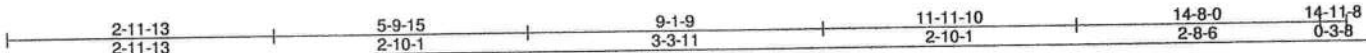


Plate Offsets (X,Y)-- [6:0-2-0,0-2-0], [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	9	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 74 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1027/0-5-8, 7=1027/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-986/0, 1-2=-1409/0, 2-3=-2131/0, 3-4=-2131/0, 4-5=-2131/0, 5-6=-1411/0, 6-7=-986/0
BOT CHORD 10-11=0/1409, 9-10=0/2131, 8-9=0/1411
WEBS 1-11=0/1597, 2-11=-779/0, 5-8=-779/0, 6-8=0/1598, 3-10=-372/0, 2-10=0/977, 4-9=-371/0, 5-9=0/976

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T01G	FLOOR	3	1	Job Reference (optional)

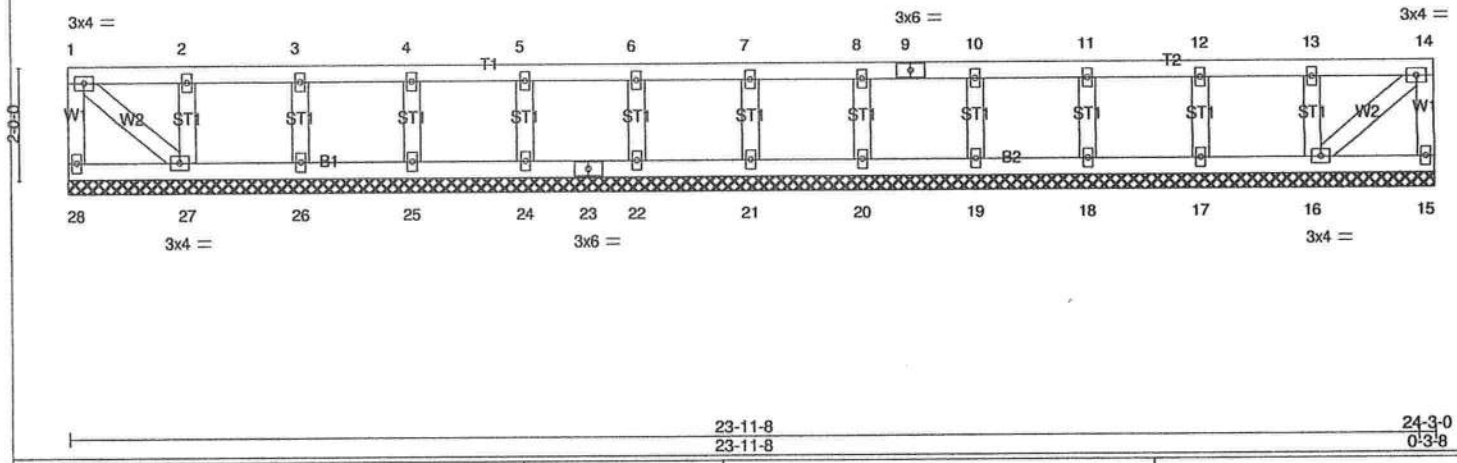
Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:39 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-i9g1ziD7pRF0iUaKFoxu?vNgN3DKDcOSCI1HacyOD1s

23-11-8
23-11-8

24-3-0
0-3-8

Scale = 1:39.6



23-11-8
23-11-8

24-3-0
0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 106 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 27-28,15-16.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15 except 21=280(LC 1), 22=280(LC 1), 24=280(LC 1), 25=281(LC 1), 26=275(LC 1), 27=313(LC 1), 20=280(LC 1), 19=280(LC 1), 18=281(LC 1), 17=275(LC 1), 16=313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-27=-260/0, 13-16=-260/0

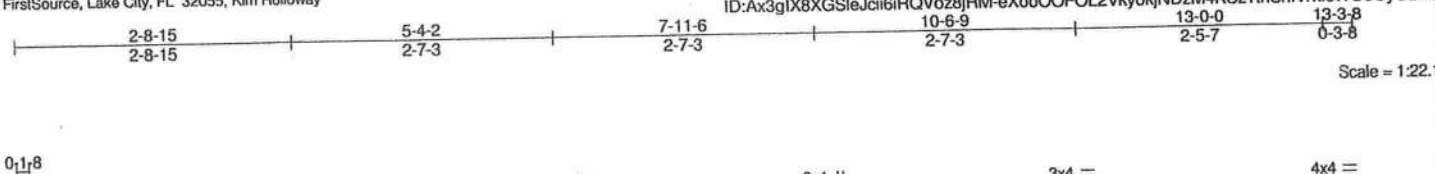
NOTES- (6)
1) All plates are 2x4 MT20 unless otherwise indicated.
2) The Fabrication Tolerance at joint 9 = 20%, joint 23 = 20%
3) Gable requires continuous bottom chord bearing.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

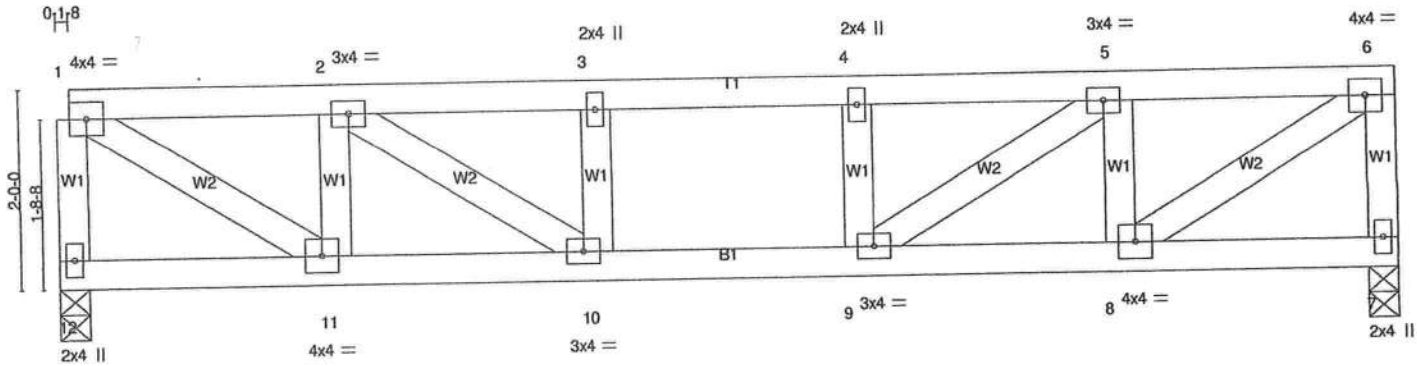
Job	Truss	Truss Type	Qty	Ply	
1810974	T02	FLOOR	10	1	Job Reference (optional)

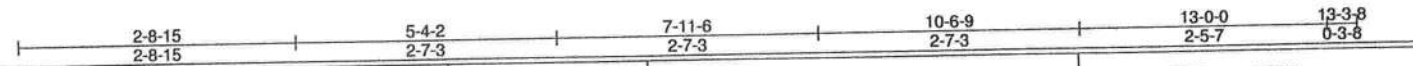
Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:41 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-eXooOOFOL2VkyokjNDzM4KSz1tnShN?kfcWOeUyOD1q



Scale = 1:22.1





LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.06	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 68 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=910/0-3-8, 7=910/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-873/0, 1-2=-1138/0, 2-3=-1684/0, 3-4=-1684/0, 4-5=-1684/0, 5-6=-1138/0, 6-7=-873/0
BOT CHORD 10-11=0/1138, 9-10=0/1684, 8-9=0/1138
WEBS 1-11=0/1322, 2-11=-684/0, 2-10=0/759, 3-10=-307/0, 4-9=-307/0, 5-9=0/759, 5-8=-684/0, 6-8=0/1322

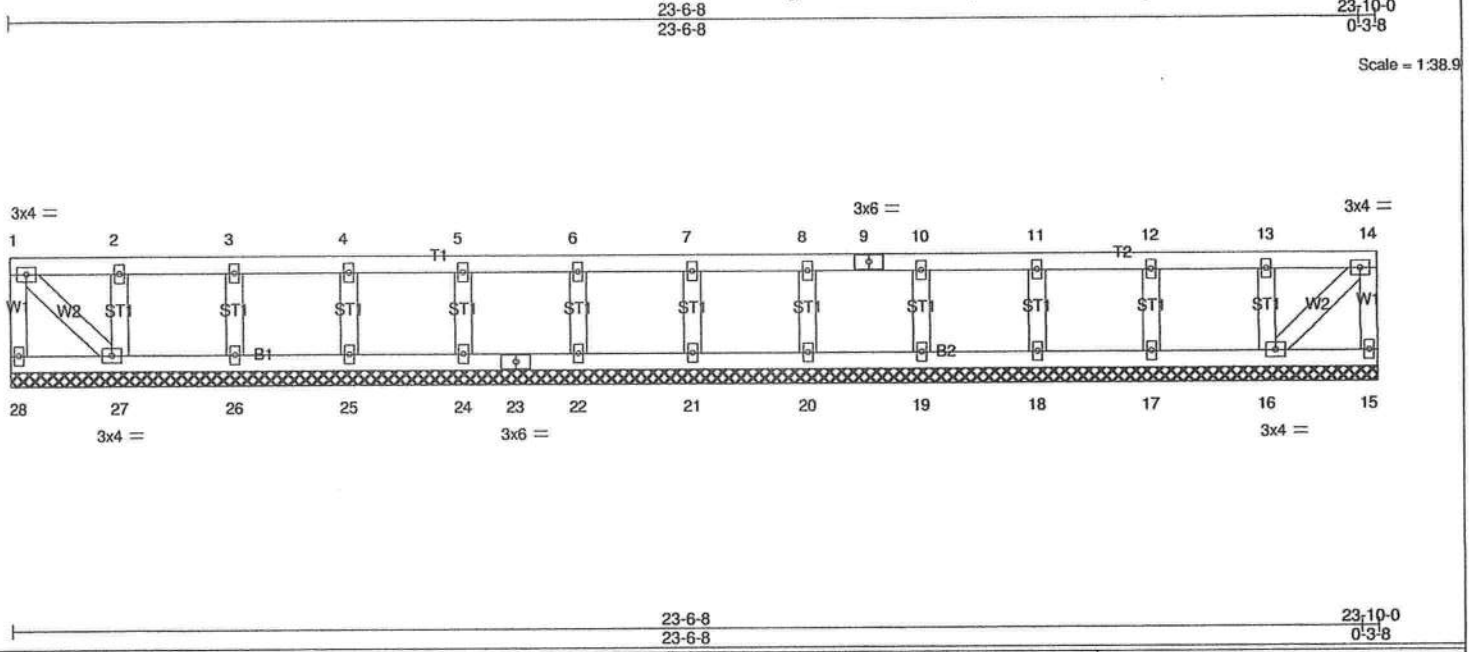
NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T02G	FLOOR	4	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:42 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-6kMAckF05MdbZyJvwwVbdY?BpHF3QzBuuGGxAxyOD1p



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 104 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 27-28,15-16.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15 except 21=280(LC 1), 22=280(LC 1), 24=280(LC 1), 25=280(LC 1), 26=280(LC 1), 27=294(LC 1), 20=280(LC 1), 19=280(LC 1), 18=280(LC 1), 17=280(LC 1), 16=294(LC 1)

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

NOTES- (6)
1) All plates are 2x4 MT20 unless otherwise indicated.
2) The Fabrication Tolerance at joint 9 = 20%, joint 23 = 20%
3) Gable requires continuous bottom chord bearing.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T03	FLOOR	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:43 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-bwwYp4GesfISB5u6Ue0q9lXHZhPf9Cr16w?UjNyOD1o

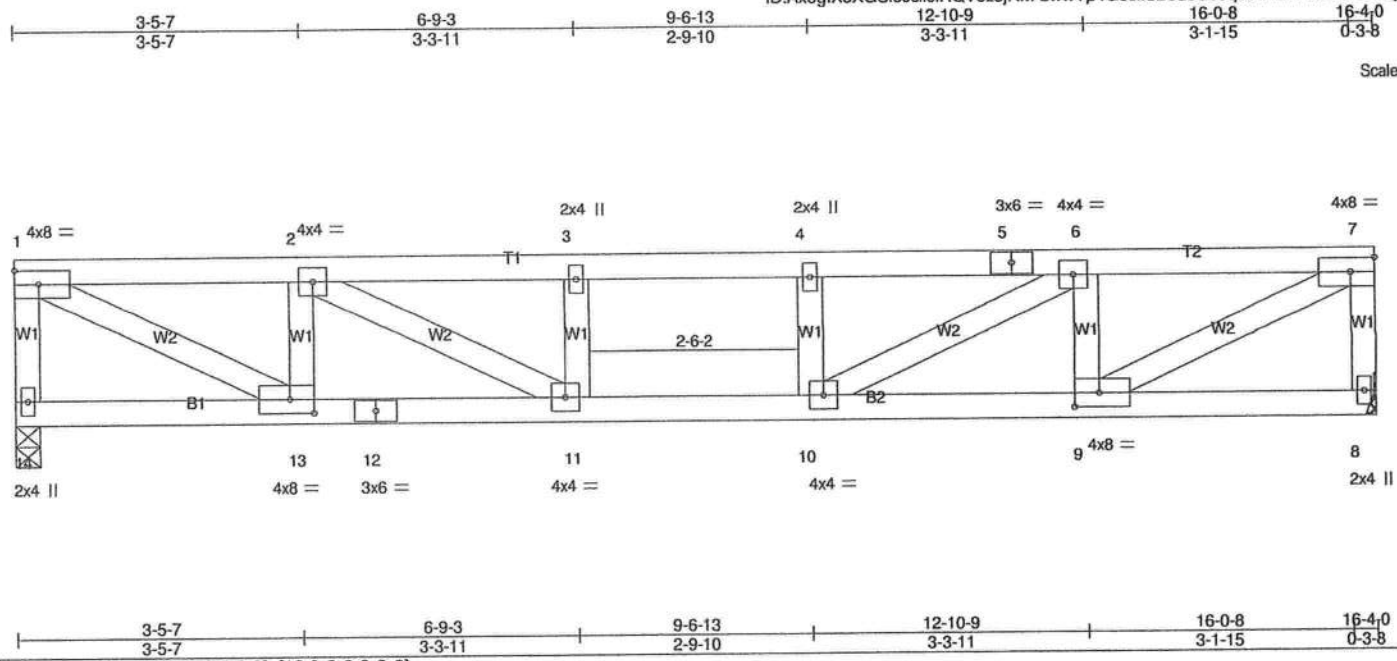


Plate Offsets (X,Y)-- [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.19	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 81 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=1123/0-3-8, 8=1123/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1078/0, 1-2=-1782/0, 2-3=-2583/0, 3-4=-2583/0, 4-5=-2583/0, 5-6=-2583/0, 6-7=-1782/0, 7-8=-1078/0
BOT CHORD 12-13=0/1782, 11-12=0/1782, 10-11=0/2583, 9-10=0/1782
WEBS 1-13=0/1947, 2-13=-837/0, 2-11=0/1051, 3-11=-354/0, 4-10=-354/0, 6-10=0/1051, 6-9=-837/0, 7-9=0/1947

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 5 = 20%, joint 12 = 20%
3) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
4) Refer to girder(s) for truss to truss connections.
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) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T04	FLOOR	9	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:44 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-36Uw1QHGdztJpFTI2LX3iz4Tr4n9ui?BLal2FpyOD1n

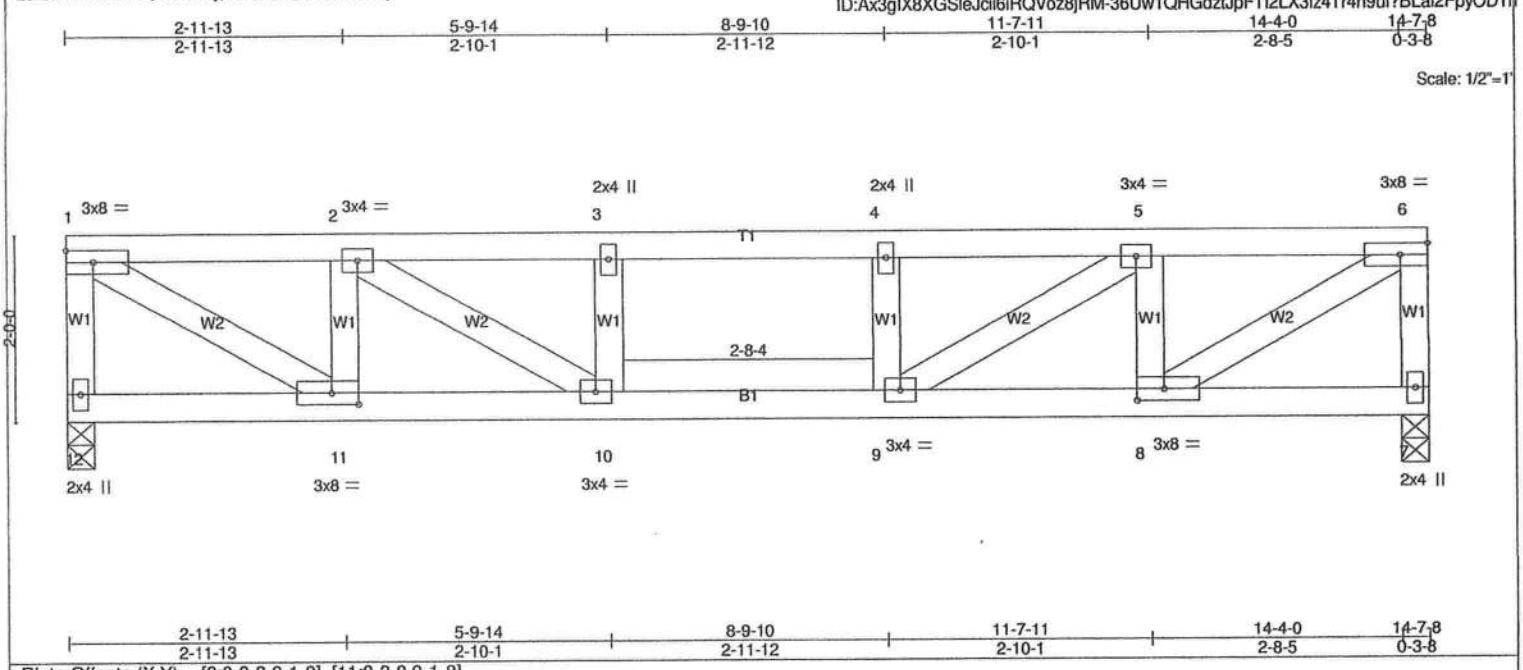


Plate Offsets (X,Y)-- [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.13	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 73 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1003/0-3-8, 7=1003/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-963/0, 1-2=-1373/0, 2-3=-2044/0, 3-4=-2044/0, 4-5=-2044/0, 5-6=-1373/0, 6-7=-963/0
BOT CHORD 10-11=0/1373, 9-10=0/2044, 8-9=0/1373
WEBS 1-11=0/1556, 2-11=-757/0, 5-8=-757/0, 6-8=0/1556, 3-10=-346/0, 2-10=0/911, 4-9=-346/0, 5-9=0/911

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
4) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
1810974	T05	FLOOR	11	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:45 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-XJ2JEmluOH0AQP2Uc32IEAdbvU7YdAwKaEUbnGyOD1m

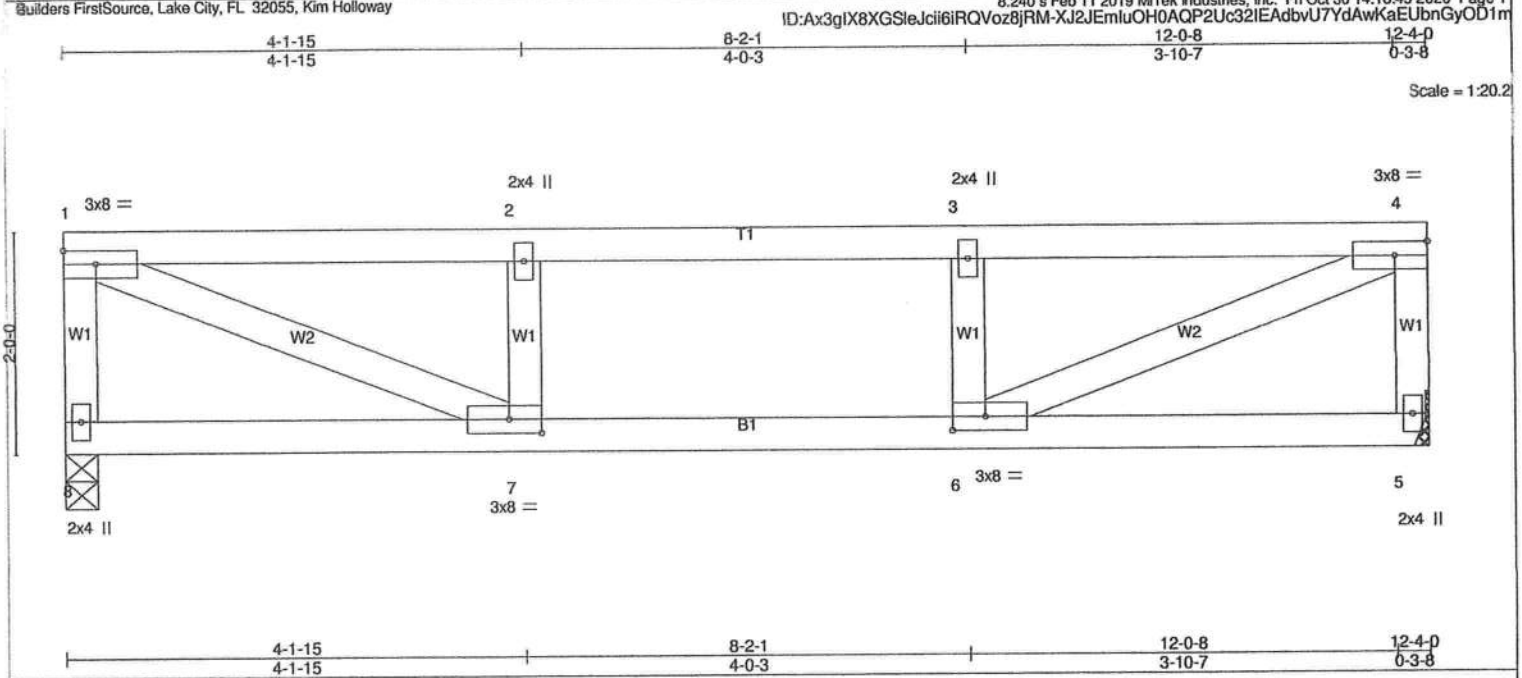


Plate Offsets (X,Y)-- [6:0-3-8,0-1-8], [7:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.10	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.12	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 57 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=843/0-3-8, 5=843/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-795/0, 1-2=-1412/0, 2-3=-1412/0, 3-4=-1412/0, 4-5=-795/0
BOT CHORD 6-7=0/1412
WEBS 1-7=0/1465, 2-7=-501/0, 3-6=-501/0, 4-6=0/1465

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
3) Refer to girder(s) for truss to truss connections.
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.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

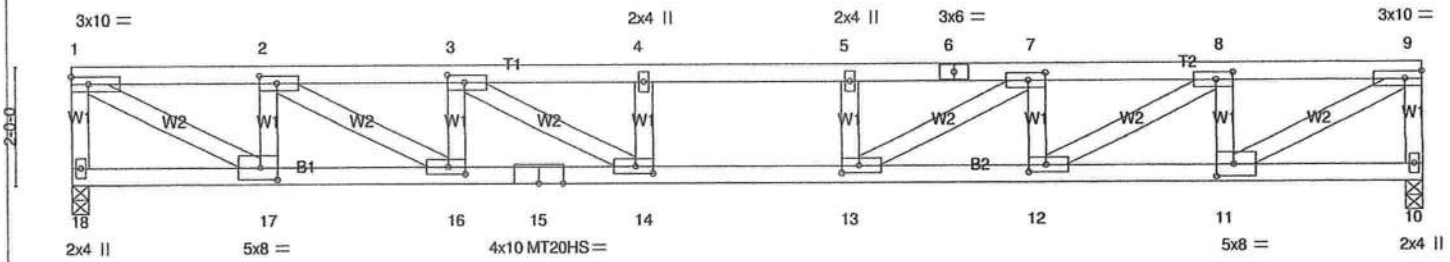
Job	Truss	Truss Type	Qty	Ply	
1810974	T06	FLOOR	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:47 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-Th93fRJ9wuGugjCtjT4mKbisOlnU52Yd1Yzis8yOD1k

3-4-6	6-6-15	9-9-9	13-3-15	16-6-9	19-9-2	22-10-0	23-1-8
3-4-6	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Scale = 1:38.2



3-4-6	6-6-15	9-9-9	13-3-15	16-6-9	19-9-2	22-10-0	23-1-8
3-4-6	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Plate Offsets (X,Y)-- [2:0-3-8,0-1-8], [3:0-3-8,0-1-8], [7:0-3-8,0-1-8], [8:0-3-8,0-1-8], [11:0-3-8,0-2-8], [12:0-3-8,0-1-8], [13:0-3-8,0-1-8], [14:0-3-8,0-1-8], [16:0-3-8,0-1-8], [17:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.43	13-14	>639	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.60	13-14	>456	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 115 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 18=1598/0-3-8, 10=1598/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1545/0, 1-2=-2621/0, 2-3=-4340/0, 3-4=-5227/0, 4-5=-5227/0, 5-6=-5227/0, 6-7=-5227/0, 7-8=-4340/0, 8-9=-2621/0, 9-10=-1545/0
BOT CHORD 16-17=0/2621, 15-16=0/4340, 14-15=0/4340, 13-14=0/5227, 12-13=0/4340, 11-12=0/2621
WEBS 1-17=0/2897, 2-17=-1315/0, 2-16=0/1947, 3-16=-845/0, 3-14=0/1440, 4-14=-408/0, 5-13=-408/0, 7-13=0/1440, 7-12=-845/0, 8-12=0/1947, 8-11=-1315/0, 9-11=0/2897

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x8 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 6 = 20%, joint 15 = 20%
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) 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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

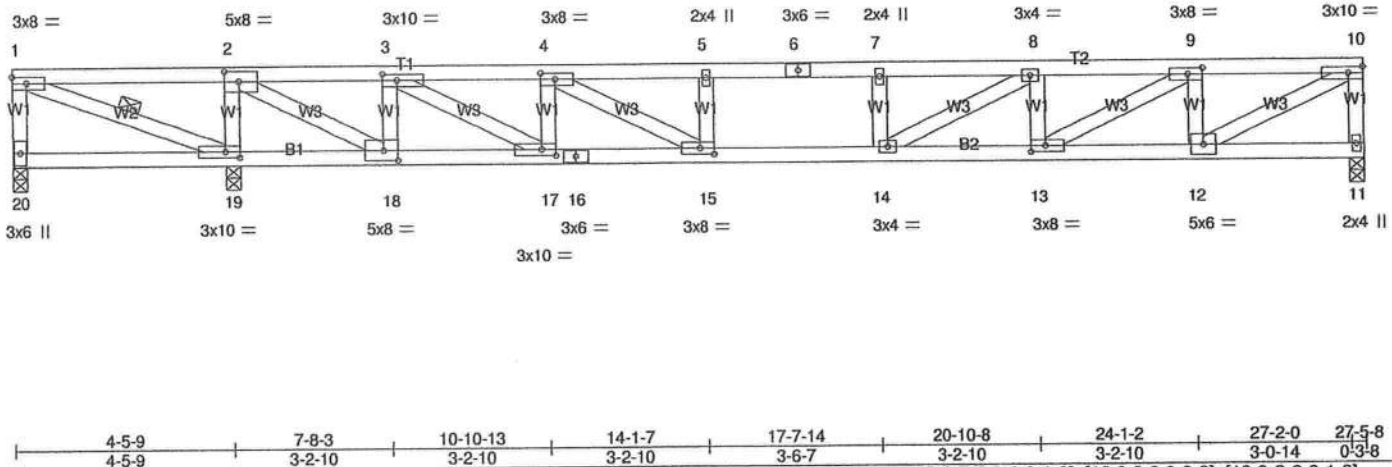
Job	Truss	Truss Type	Qty	Ply	
1810974	T07	FLOOR	6	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:48 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-xtjRsnKnhCOlHtm3HBb?spF5Bi8xqUamGBjFOayOD1j

4-5-9	7-8-3	10-10-13	14-1-7	17-7-14	20-10-8	24-1-2	27-2-0	27-5-8
4-5-9	3-2-10	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Scale = 1:45.5



4-5-9	7-8-3	10-10-13	14-1-7	17-7-14	20-10-8	24-1-2	27-2-0	27-5-8
4-5-9	3-2-10	3-2-10	3-2-10	3-6-7	3-2-10	3-2-10	3-0-14	0-3-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-1-8], [4:0-3-8,0-1-8], [9:0-3-8,0-1-8], [13:0-3-8,0-1-8], [15:0-3-8,0-1-8], [17:0-3-8,0-1-8], [18:0-3-8,0-2-8], [19:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.32	13-14	>848	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.45	13-14	>607	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 136 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20
4-10-7 oc bracing: 18-19.
WEBS 1 Row at midpt 1-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=-713/0-3-8, 11=1408/0-3-8, 19=3109/0-3-8 (req. 0-3-11)
Max Uplift20=-919(LC 4)
Max Grav 20=2(LC 3), 11=1409(LC 4), 19=3109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=0/921, 1-2=0/2355, 2-3=-449/0, 3-4=-2497/0, 4-5=-3980/0, 5-6=-3980/0, 6-7=-3980/0, 7-8=-3980/0, 8-9=-3682/0, 9-10=-2260/0, 10-11=-1356/0
BOT CHORD 18-19=-2355/0, 17-18=0/449, 16-17=0/2497, 15-16=0/2497, 14-15=0/3980, 13-14=0/3682, 12-13=0/2260
WEBS 1-19=-2490/0, 2-19=-2032/0, 2-18=0/3175, 3-18=-1464/0, 3-17=0/2345, 4-17=-1106/0, 7-14=-285/0, 8-14=-95/822, 8-13=-610/0, 9-13=0/1611, 9-12=-1139/0, 10-12=0/2491, 5-15=-565/0, 4-15=0/1806

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 6 = 20%, joint 16 = 20%
3) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 919 lb uplift at joint 20.
6) 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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

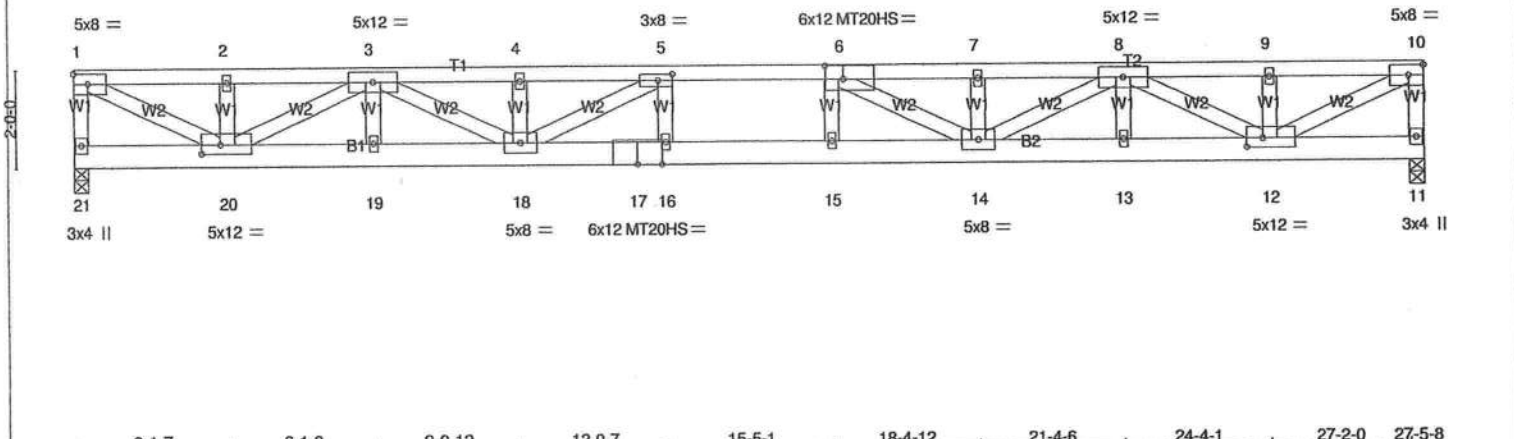
Job	Truss	Truss Type	Qty	Ply	
1810974	T08	FLOOR	7	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:50 2020 Page 1
ID:Ax3gIX8XGSIeJcii6iRQVoz8jRM-tGrCHTM1DpeTXAwSOceTxEKQ8VrfINL3jVCMSTyOD1h

3-1-7	6-1-2	9-0-12	12-0-7	15-5-1	18-4-12	21-4-6	24-4-1	27-2-0	27-5-8
3-1-7	2-11-11	2-11-11	2-11-11	3-4-10	2-11-11	2-11-11	2-11-11	2-9-15	0-3-8

Scale = 1:45.5



3-1-7	6-1-2	9-0-12	12-0-7	15-5-1	18-4-12	21-4-6	24-4-1	27-2-0	27-5-8
3-1-7	2-11-11	2-11-11	2-11-11	3-4-10	2-11-11	2-11-11	2-11-11	2-9-15	0-3-8

Plate Offsets (X,Y)-- [5:0-3-8,0-1-8], [6:0-4-8,0-3-4], [12:0-4-0,0-2-4], [20:0-4-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.59	15-16	>557	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.82	15-16	>398	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 21=1902/0-3-8, 11=1902/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1784/0, 1-2=-3017/0, 2-3=-3017/0, 3-4=-6833/0, 4-5=-6833/0, 5-6=-7730/0, 6-7=-6819/0, 7-8=-6819/0, 8-9=-3017/0, 9-10=-3017/0, 10-11=-1784/0
BOT CHORD 19-20=0/5419, 18-19=0/5419, 17-18=0/7730, 16-17=0/7730, 15-16=0/7730, 14-15=0/7712, 13-14=0/5422, 12-13=0/5422
WEBS 1-20=0/3336, 2-20=-352/0, 3-20=-2738/0, 3-18=0/1611, 4-18=-354/29, 5-18=-1599/0, 5-16=-282/419, 6-15=-260/459, 6-14=-1585/0, 7-14=-332/44, 8-14=0/1593, 8-12=-2741/0, 9-12=-351/0, 10-12=0/3335

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 17 = 20%
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

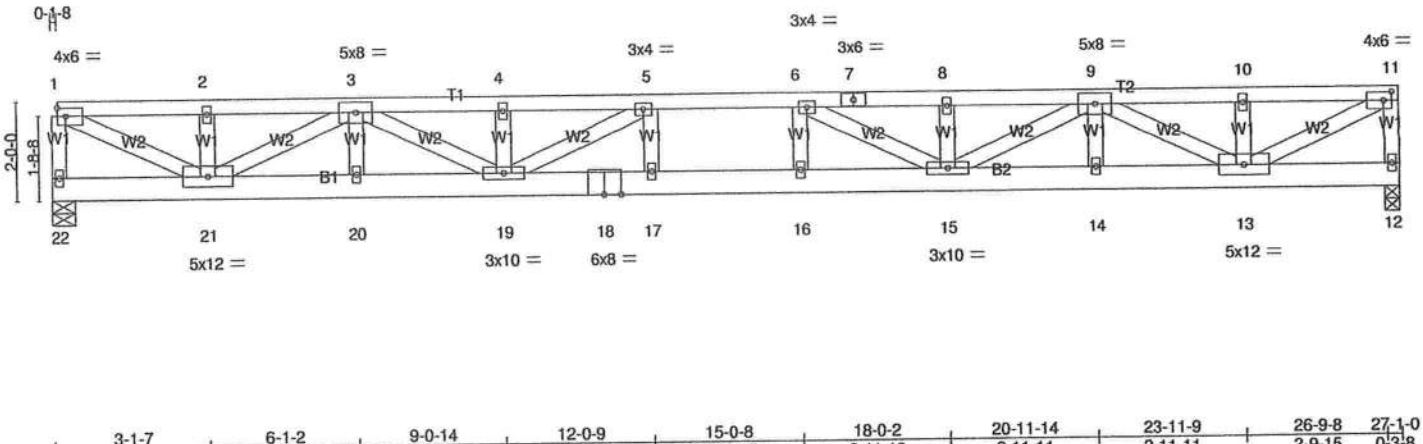
Job	Truss	Truss Type	Qty	Ply	
1810974	T09	FLOOR	30	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.240 s Feb 11 2019 MiTek Industries, Inc. Fri Oct 30 14:16:52 2020 Page 1
ID:Ax3gIX8XGSleJcii6iRQVoz8jRM-qfzyi9NHlQuAmU4qW1gx1ePrRJZSmMuMBphTXMyOD1

3-1-7	6-1-2	9-0-14	12-0-9	15-0-8	18-0-2	20-11-14	23-11-9	26-9-8	27-1-0
3-1-7	2-11-11	2-11-11	2-11-11	2-11-15	2-11-10	2-11-11	2-11-11	2-9-15	0-3-8

Scale = 1:44.9



3-1-7	6-1-2	9-0-14	12-0-9	15-0-8	18-0-2	20-11-14	23-11-9	26-9-8	27-1-0
3-1-7	2-11-11	2-11-11	2-11-11	2-11-15	2-11-10	2-11-11	2-11-11	2-9-15	0-3-8

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

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.37	16-17	>868	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.52	16-17	>619	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 22=1250/0-5-8, 12=1250/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-1173/0, 1-2=-1982/0, 2-3=-1982/0, 3-4=-4464/0, 4-5=-4464/0, 5-6=-5029/0, 6-7=-4464/0, 7-8=-4464/0, 8-9=-4464/0, 9-10=-1982/0, 10-11=-1982/0, 11-12=-1173/0
BOT CHORD 20-21=0/3551, 19-20=0/3551, 18-19=0/5029, 17-18=0/5029, 16-17=0/5029, 15-16=0/5029, 14-15=0/3551, 13-14=0/3551
WEBS 1-21=0/2191, 3-21=-1788/0, 3-19=0/1040, 5-19=-1008/0, 5-17=-175/281, 6-16=-175/281, 6-15=-1008/0, 9-15=0/1040, 9-13=-1788/0, 11-13=0/2191

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 2x4 MT20 unless otherwise indicated.
3) The Fabrication Tolerance at joint 7 = 20%, joint 18 = 20%
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
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.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard