Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 3981398 - IC CONST. = CASTAGNA - WEST RES

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Castagna-West Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

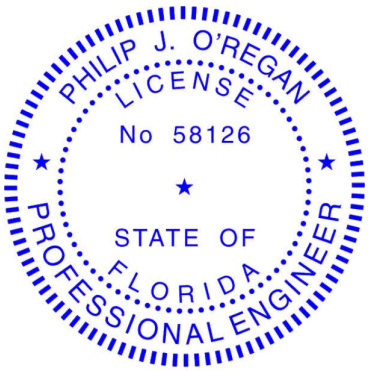
This package includes 30 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33717700	PB01	5/1/24	15	T33717714	T07G	5/1/24
2	T33717701	PB01G	5/1/24	16	T33717715	T08	5/1/24
3	T33717702	T01	5/1/24	17	T33717716	T09	5/1/24
4	T33717703	T01G	5/1/24	18	T33717717	T09G	5/1/24
5	T33717704	T02	5/1/24	19	T33717718	T10	5/1/24
6	T33717705	T02G	5/1/24	20	T33717719	T11	5/1/24
7	T33717706	T03	5/1/24	21	T33717720	T11G	5/1/24
8	T33717707	T03G	5/1/24	22	T33717721	T12	5/1/24
9	T33717708	T04	5/1/24	23	T33717722	T13	5/1/24
10	T33717709	T04G	5/1/24	24	T33717723	T13G	5/1/24
11	T33717710	T05	5/1/24	25	T33717724	T14	5/1/24
12	T33717711	T06	5/1/24	26	T33717725	T15	5/1/24
13	T33717712	T06G	5/1/24	27	T33717726	T15G	5/1/24
14	T33717713	T07	5/1/24	28	T33717727	V01	5/1/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

May 1,2024

RE: 3981398 - IC CONST. = CASTAGNA - WEST RES

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Castagna-West Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T33717728	V02	5/1/24
30	T33717729	V03	5/1/24

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717700
3981398	PB01	Piggyback	17	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:08 2024 Page 1
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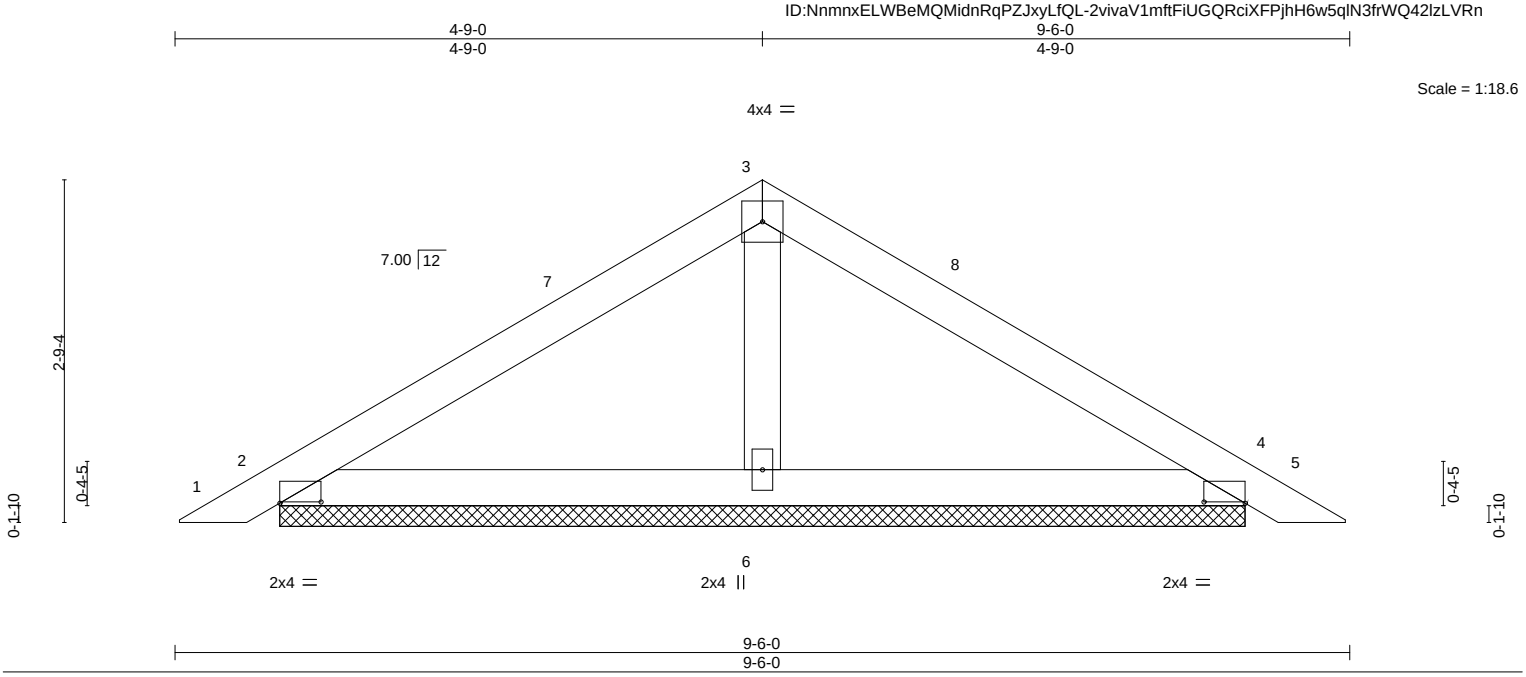

Plate Offsets (X,Y)-- [2:0-4-0,0-0-2], [4:0-4-0,0-0-2]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 31 lb	FT = 20%

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

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

REACTIONS. (size) 2=7-9-11, 4=7-9-11, 6=7-9-11
Max Horz 2=-64(LC 10)
Max Uplift 2=-60(LC 12), 4=-68(LC 13), 6=-53(LC 12)
Max Grav 2=167(LC 1), 4=167(LC 1), 6=302(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-9-0, Zone3 4-9-0 to 9-2-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
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) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717701
3981398	PB01G	GABLE	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:08 2024 Page 1
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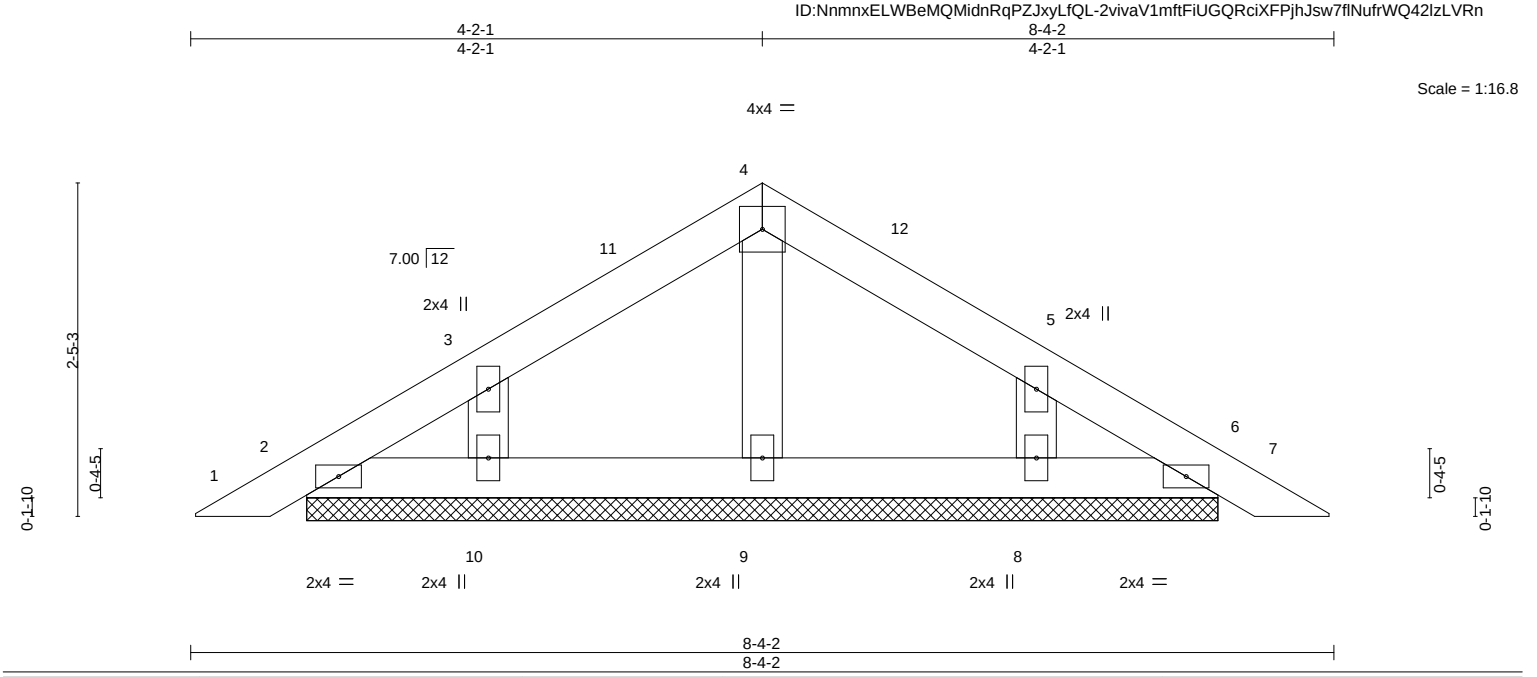

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 28 lb	FT = 20%

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

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

REACTIONS. All bearings 6-7-13.
(lb) - Max Horz 2=56(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-2-1, Zone3 4-2-1 to 8-0-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES
3981398	T01	Roof Special	10	1	T33717702
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:09 2024 Page 1
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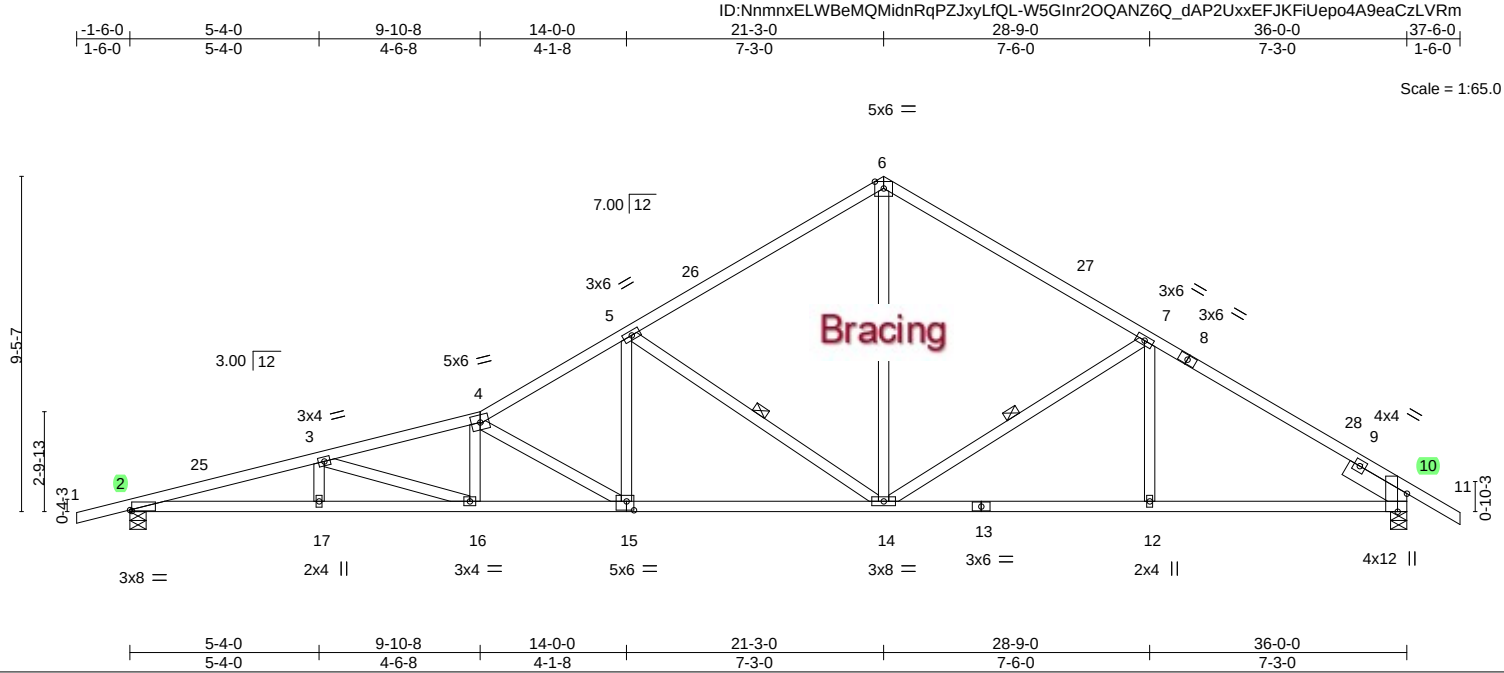


Plate Offsets (X,Y)-- [2:0-0-10,0-0-5], [10:0-6-2,Edge], [15:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.32	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.60	15-16	>723	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.16	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 194 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	8-11: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	2-15: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-7-4 oc bracing.
WEBS	1 Row at midpt 5-14, 7-14

REACTIONS. (size) 2=0-5-8, 10=0-5-8
Max Horz 2=240(LC 11)
Max Uplift 2=-404(LC 12), 10=-349(LC 13)
Max Grav 2=1413(LC 1), 10=1413(LC 1)

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

TOP CHORD	2-3=-4462/1191, 3-4=-3933/1023, 4-5=-2760/724, 5-6=-1599/431, 6-7=-1600/462, 7-10=-1993/463
BOT CHORD	2-17=-1269/4299, 16-17=-1269/4299, 15-16=-1059/3772, 14-15=-643/2360, 12-14=-304/1643, 10-12=-304/1643
WEBS	3-16=-564/256, 4-16=-55/279, 4-15=-1655/487, 5-15=-216/975, 5-14=-1288/497, 6-14=-282/1118, 7-14=-480/285

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-1-3, Zone1 2-1-3 to 21-3-0, Zone2 21-3-0 to 26-4-2, Zone1 26-4-2 to 37-6-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=404, 10=349.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

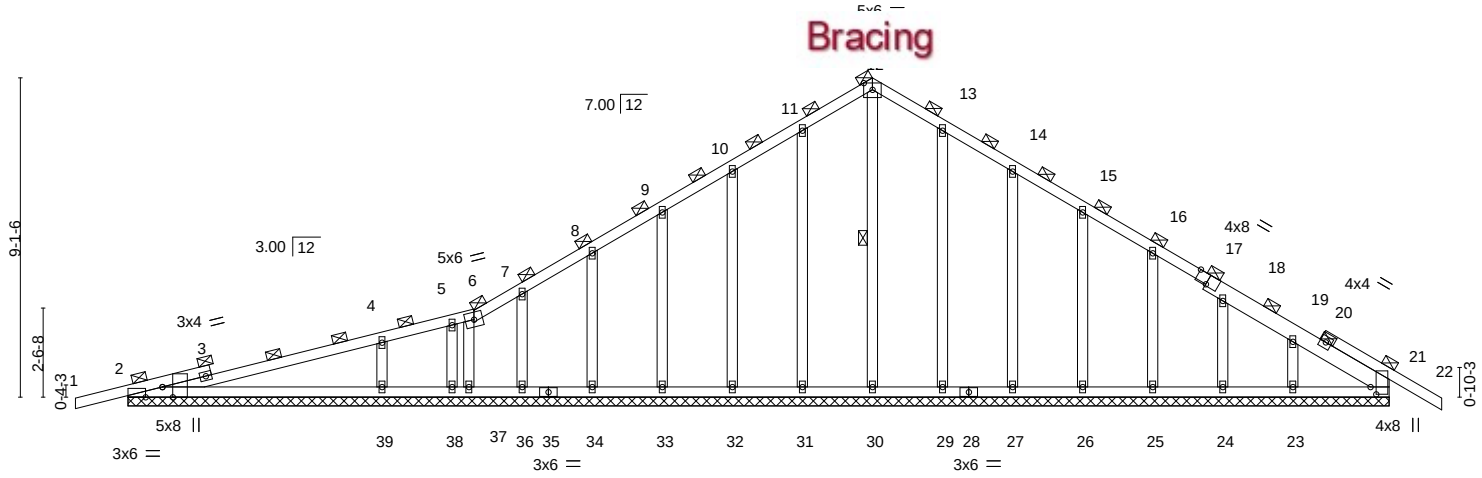
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717703
3981398	T01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:10 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-_Iqg?B30BUWQkaZpk7ZjU8mXZkiDDFzxJqvB6ezLVRI

-1-6-0 9-10-8 21-3-0 36-0-0 37-6-0
1-6-0 9-10-8 11-4-8 14-9-0 1-6-0

Scale = 1:65.8



9-10-8 36-0-0
9-10-8 26-1-8

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-5-12,Edge], [17:0-4-0,Edge], [21:0-2-8,0-1-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.00	22	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.01	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 227 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	17-21: 2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 12-30

REACTIONS. All bearings 36-0-0.
(lb) - Max Horz 2=233(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 31, 32, 33, 34, 36, 29, 27, 26, 25, 24, 23, 37 except 2=-145(LC 8), 38=-341(LC 1), 39=-204(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 36, 38, 29, 27, 26, 25, 24, 23, 21 except 2=290(LC 1), 30=255(LC 22), 39=609(LC 1), 37=258(LC 1)

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

TOP CHORD	11-12=-55/261, 12-13=-55/261
BOT CHORD	2-39=-122/252, 38-39=-122/252, 37-38=-122/252
WEBS	4-39=-420/348

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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) 31, 32, 33, 34, 36, 29, 27, 26, 25, 24, 23, 37 except (jt=lb) 2=145, 38=341, 39=204.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717704
3981398	T02	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:11 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-SUO2CW4eyoeHLk8?Hq4y1MJdt8wGyab5YUeke4zLVRk

1-6-0	6-11-8	9-10-8	12-3-8	18-8-0	24-3-0	29-10-0	35-10-0	42-0-0
1-6-0	6-11-8	2-11-0	2-5-0	6-4-8	5-7-0	5-7-0	6-0-0	6-2-0

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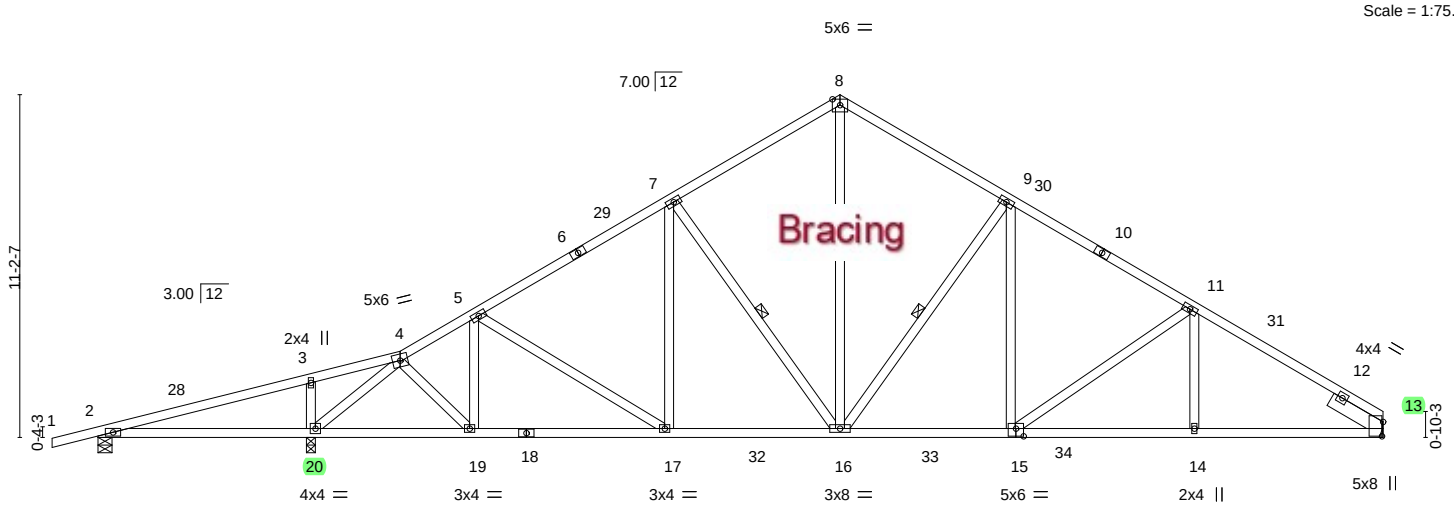

6-11-8	12-3-8	18-8-0	24-3-0	29-10-0	35-10-0	42-0-0
6-11-8	5-4-0	6-4-8	5-7-0	5-7-0	6-0-0	6-2-0

Plate Offsets (X,Y)-- [13:0-5-10,0-0-7], [15:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.14	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.25	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 7-16, 9-16

REACTIONS. (size) 2=0-5-8, 20=0-3-8, 13=Mechanical
Max Horz 2=281(LC 9)
Max Uplift 2=-193(LC 8), 20=-505(LC 12), 13=-321(LC 13)
Max Grav 2=153(LC 25), 20=2016(LC 2), 13=1449(LC 20)

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

TOP CHORD	2-3=-279/1017, 3-4=-218/997, 4-5=-1524/336, 5-7=-1664/394, 7-8=-1383/418, 8-9=-1357/425, 9-11=-1807/453, 11-13=-2128/491
BOT CHORD	2-20=-903/237, 19-20=-254/926, 17-19=-358/1455, 16-17=-286/1492, 15-16=-203/1486, 14-15=-330/1751, 13-14=-330/1751
WEBS	3-20=-377/202, 4-20=-2287/479, 4-19=-150/765, 5-19=-376/153, 7-17=-9/261, 7-16=-530/256, 8-16=-291/1091, 9-16=-731/305, 9-15=-80/463, 11-15=-359/200

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 24-3-0, Zone2 24-3-0 to 30-2-5, Zone1 30-2-5 to 42-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 3x6 MT20 unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 20=505, 13=321.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717705
3981398	T02G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:12 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-wgyQPs4Hj5m8ztjCrYbBZZsq4YIJhzjEm8OIBWzLVRj

1-6-0	6-11-8	9-10-8	12-3-8	18-8-0	24-3-0	29-10-0	35-10-0	42-0-0
1-6-0	6-11-8	2-11-0	2-5-0	6-4-8	5-7-0	5-7-0	6-0-0	6-2-0

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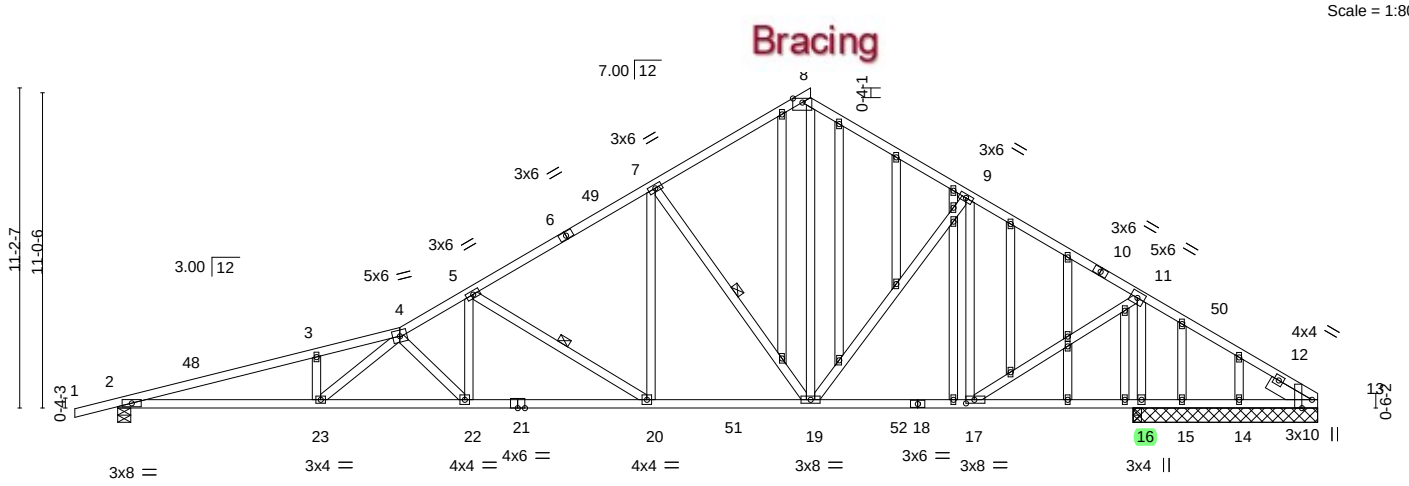

6-11-8	12-3-8	18-8-0	24-3-0	29-10-0	35-10-0	42-0-0
6-11-8	5-4-0	6-4-8	5-7-0	5-7-0	6-0-0	6-2-0

Plate Offsets (X,Y)-- [13:0-3-8,Edge], [17:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.31	22-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.53	20-22	>806	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.09	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 317 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-7-6

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-9-13 oc bracing.
WEBS	1 Row at midpt 5-20, 7-19

REACTIONS. All bearings 6-5-8 except (jt=length) 2=0-5-8.
(lb) - Max Horz 2=278(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-371(LC 12), 16=-605(LC 12), 13=-867(LC 27), 15=-187(LC 20), 14=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=1348(LC 2), 16=2786(LC 2), 16=2517(LC 1), 13=254(LC 12), 14=394(LC 20)

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

TOP CHORD	2-3=-4103/1024, 3-4=-4103/1072, 4-5=-2927/723, 5-7=-1642/418, 7-8=-932/328, 8-9=-941/341, 9-11=-571/215, 11-13=-442/1741
BOT CHORD	2-23=-1126/3958, 22-23=-951/3460, 20-22=-698/2650, 19-20=-307/1493, 17-19=0/434, 16-17=-1441/421, 15-16=-1441/421, 14-15=-1441/421, 13-14=-1441/421
WEBS	3-23=-291/181, 4-23=-249/687, 4-22=-1309/366, 5-22=-227/1148, 5-20=-1382/459, 7-20=-203/971, 7-19=-1147/416, 8-19=-192/634, 9-19=-144/649, 9-17=-937/292, 11-17=-471/2169, 11-16=-2501/612

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 24-0-6, Zone2 24-0-6 to 29-10-0, Zone1 29-10-0 to 42-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 2, 605 lb uplift at joint 16, 867 lb uplift at joint 13, 187 lb uplift at joint 15 and 122 lb uplift at joint 14.

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Date:

May 1,2024

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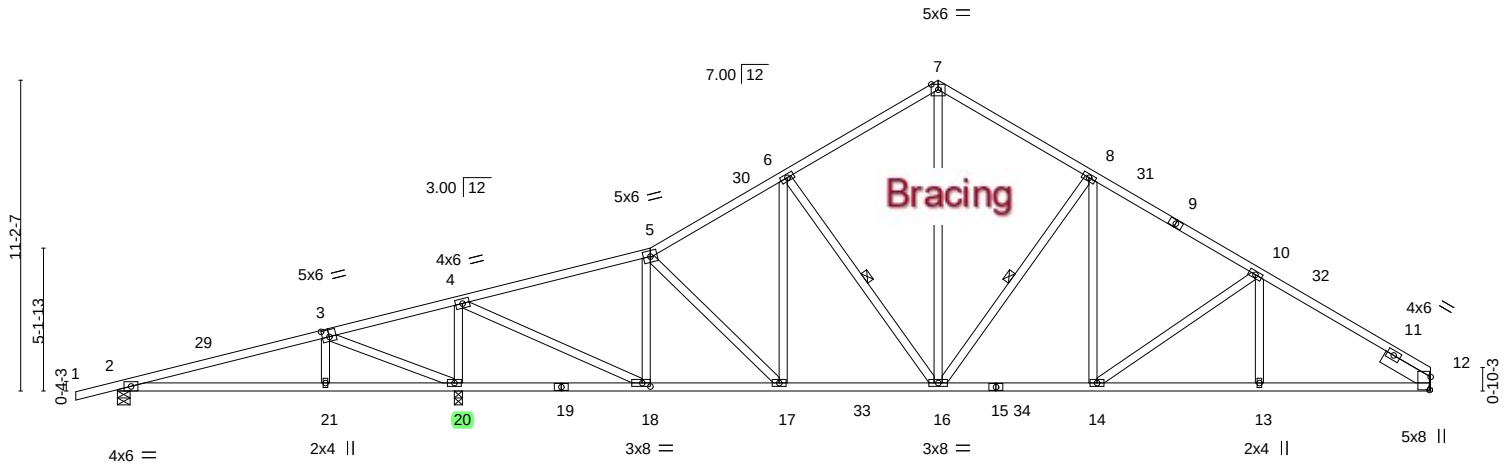
Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717706
3981398	T03	Roof Special	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:13 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-OsWodC5vUPu_b1IOPF7Q6nO_txcFQRXO?o7rjzzLVRi

1-6-0	7-6-0	12-3-8	19-2-8	24-0-0	29-7-0	35-2-0	41-2-0	47-4-0
1-6-0	7-6-0	4-9-8	6-11-0	4-9-8	5-7-0	5-7-0	6-0-0	6-2-0

Scale = 1:83.1



7-6-0	12-3-8	19-2-8	24-0-0	29-7-0	35-2-0	41-2-0	47-4-0
7-6-0	4-9-8	6-11-0	4-9-8	5-7-0	5-7-0	6-0-0	6-2-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [12:0-5-10,0-0-7], [18:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.26	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 277 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-10-3 oc bracing.
WEBS	1 Row at midpt 6-16, 8-16

REACTIONS. (size) 2=0-5-8, 20=0-3-8, 12=Mechanical
Max Horz 2=288(LC 9)
Max Uplift 2=-202(LC 8), 20=-584(LC 12), 12=-321(LC 13)
Max Grav 2=348(LC 25), 20=2247(LC 2), 12=1420(LC 20)

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

TOP CHORD	2-3=-119/282, 3-4=-284/951, 4-5=-1275/320, 5-6=-1526/398, 6-7=-1327/416, 7-8=-1304/430, 8-10=-1746/460, 10-12=-2082/507
BOT CHORD	18-20=-938/232, 17-18=-270/1230, 16-17=-242/1331, 14-16=-192/1410, 13-14=-330/1712, 12-13=-330/1712
WEBS	3-21=0/260, 3-20=-879/292, 4-20=-1715/512, 4-18=-482/2246, 5-18=-736/240, 6-16=-391/217, 7-16=-287/1031, 8-16=-736/304, 8-14=-78/464, 10-14=-373/200

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-2-13, Zone1 3-2-13 to 29-7-0, Zone2 29-7-0 to 36-3-5, Zone1 36-3-5 to 47-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 3x6 MT20 unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2, 584 lb uplift at joint 20 and 321 lb uplift at joint 12.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717707
3981398	T03G	Monopitch Structural Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:13 2024 Page 1
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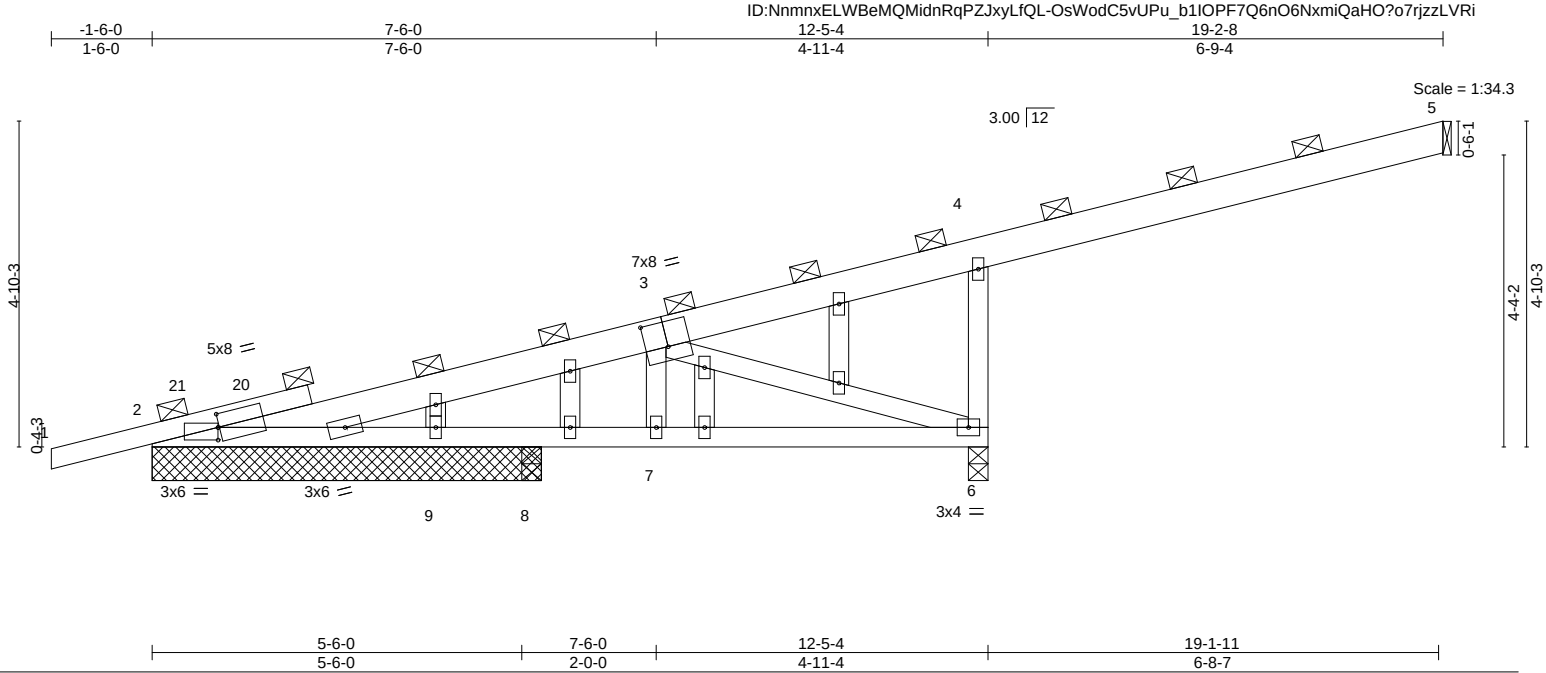

Plate Offsets (X,Y)-- [2:0-0-4,0-2-6], [2:0-0-0,0-2-4], [3:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 86 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-9-8 except (jt=length) 5=Mechanical, 6=0-3-8, 8=0-3-8.
(lb) - Max Horz 2=211(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5, 9, 8 except 2=-221(LC 8), 6=-288(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5, 9, 8 except 2=510(LC 1), 6=619(LC 1), 2=510(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-624/99, 4-6=-367/224
BOT CHORD 2-9=-236/572, 8-9=-236/572, 7-8=-236/572, 6-7=-241/572
WEBS 3-6=-604/262

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 19-1-12 zone;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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 9, 8 except (jt=lb) 2=221, 6=288, 2=221.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717708
3981398	T04	Common	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:14 2024 Page 1
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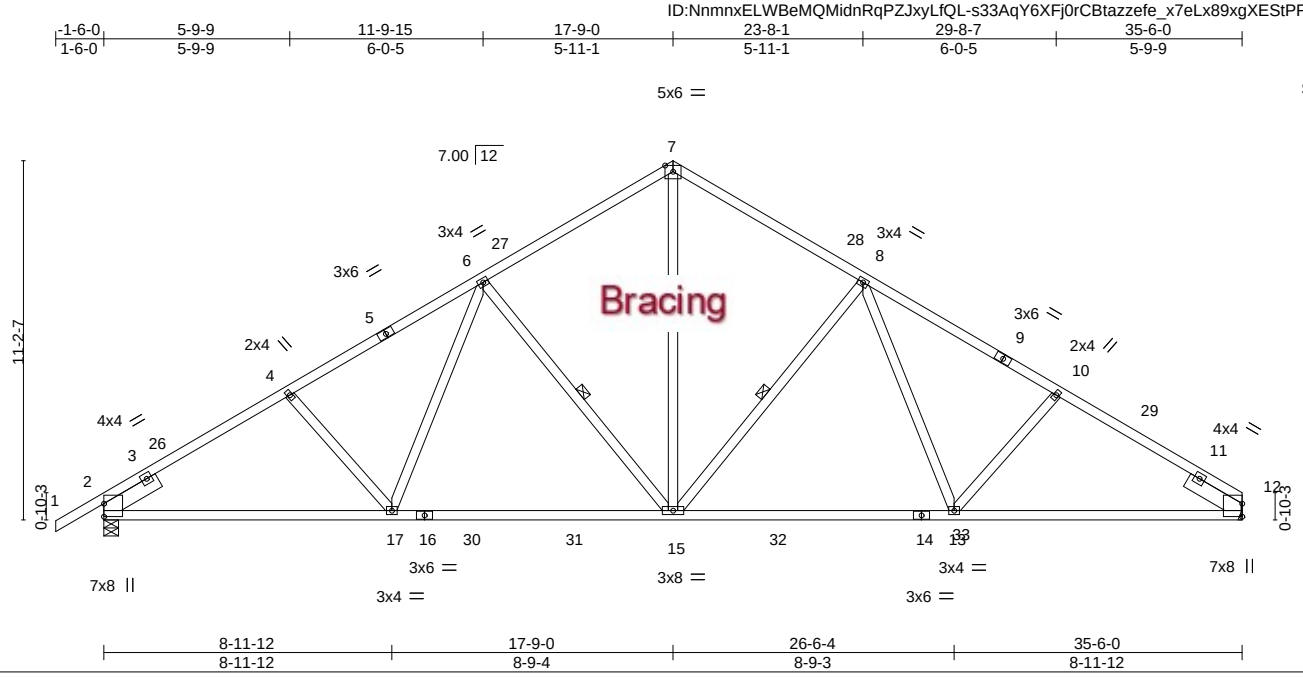

Plate Offsets (X,Y)-- [8:0-0-0,0-0-0], [10:0-0-0,0-0-0], [12:Edge,0-0-0], [12:0-0-0,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.29	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.47	15-17	>906	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1 *Except*
	14-16: 2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 6-15, 8-15

REACTIONS. (size) 2=0-5-8, 12=Mechanical
Max Horz 2=270(LC 9)
Max Uplift 2=-366(LC 12), 12=-328(LC 13)
Max Grav 2=1612(LC 19), 12=1534(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2257/504, 4-6=-2116/496, 6-7=-1558/428, 7-8=-1557/427, 8-10=-2138/500, 10-12=-2266/509
BOT CHORD 2-17=-522/2051, 15-17=-363/1763, 13-15=-243/1631, 12-13=-355/1870
WEBS 6-17=-95/476, 6-15=-658/314, 7-15=-293/1250, 8-15=-662/316, 8-13=-100/485

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-0-10, Zone1 2-0-10 to 17-9-0, Zone2 17-9-0 to 22-9-4, Zone1 22-9-4 to 35-6-0 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=366, 12=328.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717709
3981398	T04G	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:15 2024 Page 1
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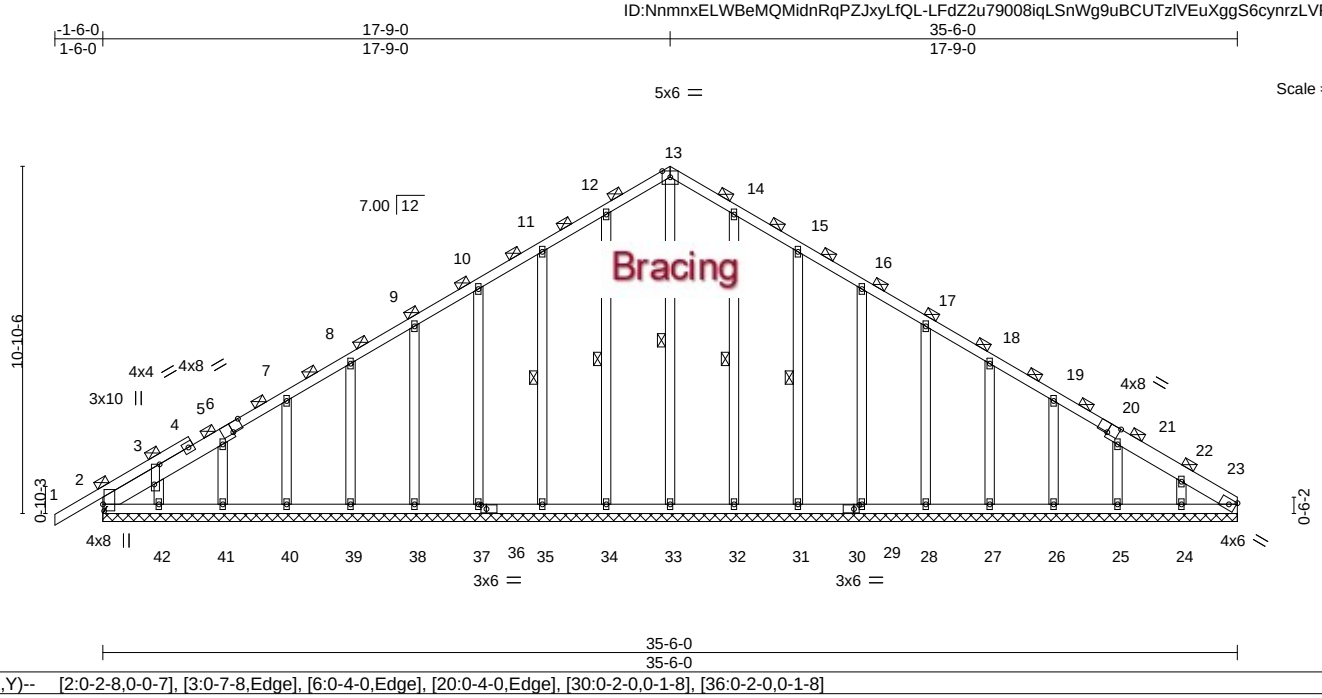

Plate Offsets (X,Y)-- [2:0-2-8,0-0-7], [3:0-7-8,Edge], [6:0-4-0,Edge], [20:0-4-0,Edge], [30:0-2-0,0-1-8], [36:0-2-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 264 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-6,20-23: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 13-33, 12-34, 11-35, 14-32, 15-31

REACTIONS. All bearings 35-6-0.
(lb) - Max Horz 2=266(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-262/207

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 23.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717710
3981398	T05	Roof Special	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:16 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-pRBxFE7nmKGZSV1z4Ng7kP0T_9cndr0qhmMVKIzLVRf

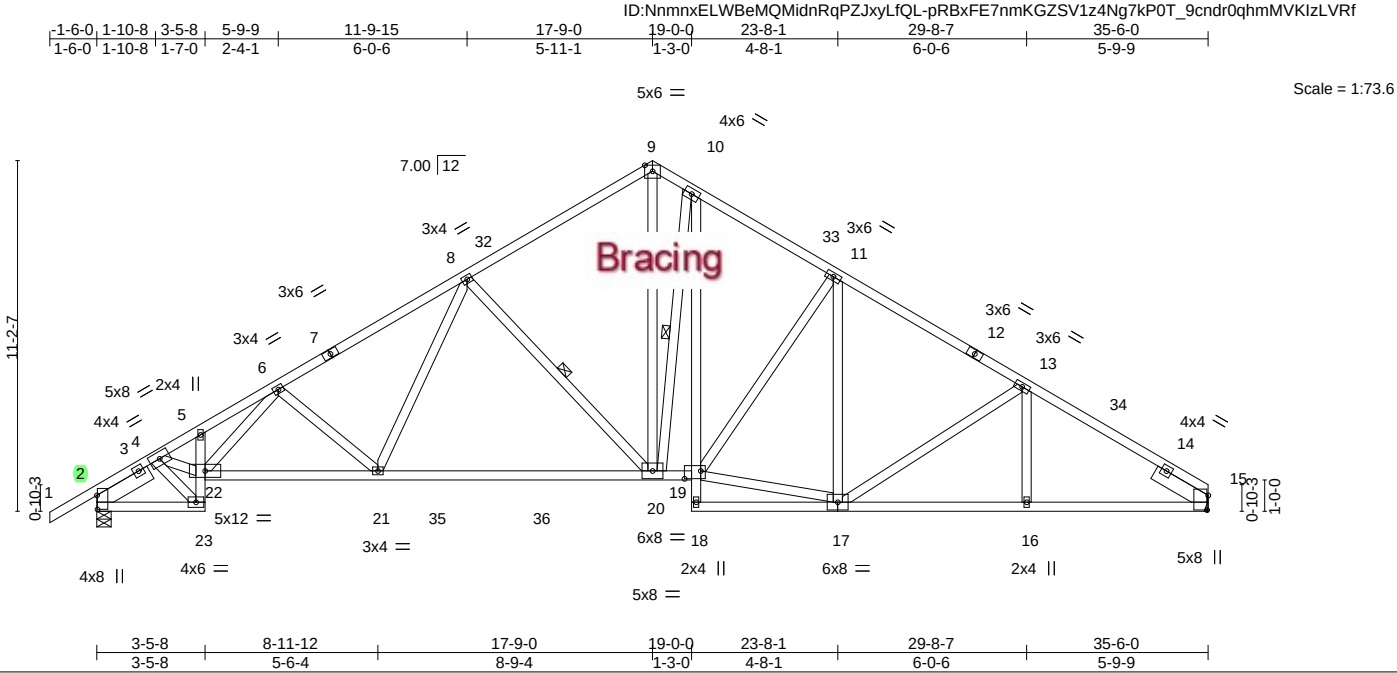

Plate Offsets (X,Y)-- [2:0-5-6,0-0-3], [15:0-5-10,0-0-7], [19:0-6-4,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.29	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.51	20-21	>835	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.20	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 254 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 10-18: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 4-22: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 8-20, 10-20

REACTIONS. (size) 2=0-5-8, 15=Mechanical
Max Horz 2=270(LC 9)
Max Uplift 2=-366(LC 12), 15=-328(LC 13)
Max Grav 2=1584(LC 19), 15=1491(LC 20)

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

TOP CHORD	2-4=-1997/447, 4-5=-3431/818, 5-6=-3582/880, 6-8=-2562/599, 8-9=-1633/428, 9-10=-1536/447, 10-11=-1708/457, 11-13=-1897/455, 13-15=-2209/497
BOT CHORD	2-23=-479/1689, 22-23=-410/1493, 21-22=-694/2724, 20-21=-420/1982, 19-20=-200/1474, 10-19=-229/451, 16-17=-347/1821, 15-16=-347/1821
WEBS	4-23=-2004/576, 4-22=-795/3044, 6-22=-236/839, 6-21=-577/284, 8-21=-159/780, 8-20=-797/347, 9-20=-362/1359, 10-20=-471/300, 17-19=-235/1479, 11-19=-406/249, 13-17=-337/194

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-9-4, Zone1 1-9-4 to 17-9-0, Zone2 17-9-0 to 22-9-4, Zone1 22-9-4 to 35-6-0 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=366, 15=328.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

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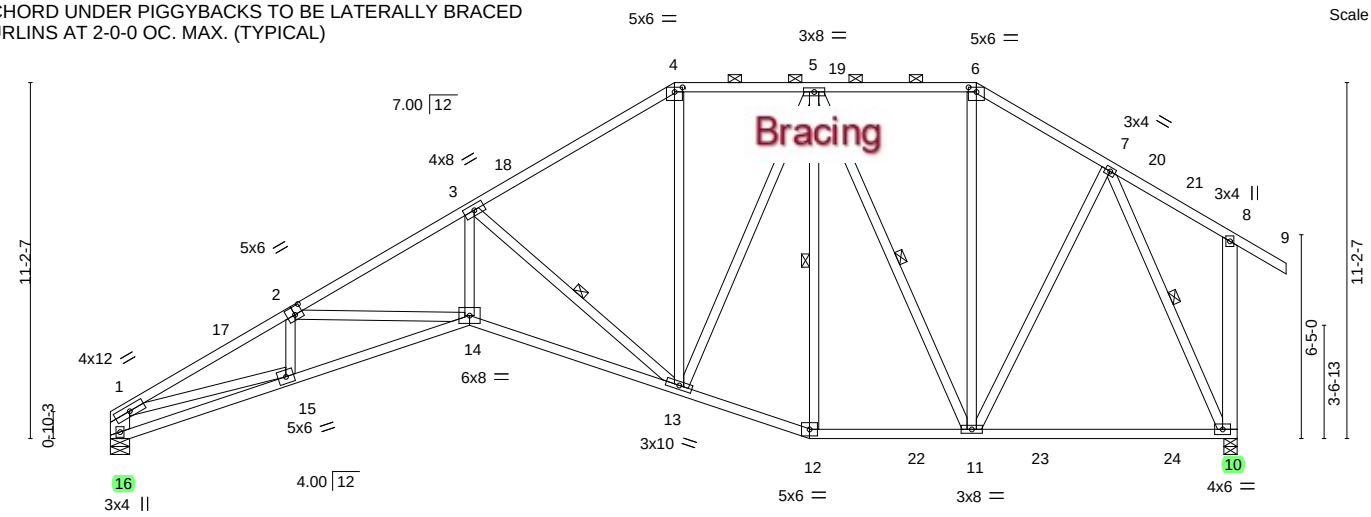
Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717711
3981398	T06	Piggyback Base	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:17 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-HelJTa8PXeOQ3fc9e5BMGdZj5ZzYMDCzwQ53skzLVRe

5-8-0	11-3-10	17-9-0	22-0-0	27-3-0	31-4-0	35-5-8	37-0-0
5-8-0	5-7-10	6-5-6	4-3-0	5-3-0	4-1-0	4-1-8	1-6-8

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

Scale = 1:72.5



5-8-0	11-3-10	17-9-0	22-0-0	27-3-0	35-5-8
5-8-0	5-7-10	6-5-6	4-3-0	5-3-0	8-2-8

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.30	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.55	13-14	>767	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.33	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 8-10: 2x6 SP No.2, 1-16: 2x8 SP 2400F 2.0E, 1-15: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 3-13, 5-12, 5-11, 7-10

REACTIONS. (size) 16=0-7-4, 10=0-5-0
Max Horz 16=359(LC 11)
Max Uplift 16=-358(LC 12), 10=-342(LC 13)
Max Grav 16=1426(LC 19), 10=1547(LC 2)

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

TOP CHORD	1-2=-3769/1010, 2-3=-3704/998, 3-4=-1601/489, 4-5=-1323/478, 5-6=-851/310, 6-7=-1028/332, 8-10=-269/157, 1-16=-1482/448
BOT CHORD	15-16=-390/537, 14-15=-1017/3596, 13-14=-879/3515, 12-13=-303/1174, 11-12=-287/1086, 10-11=-170/566
WEBS	2-15=-279/149, 3-14=-570/2431, 3-13=-2569/780, 4-13=-98/546, 5-13=-191/729, 5-12=-270/112, 5-11=-600/231, 6-11=-106/319, 7-11=-162/632, 7-10=-1316/275, 1-15=-729/2950

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-10 to 3-10-3, Zone1 3-10-3 to 17-9-0, Zone2 17-9-0 to 22-9-3, Zone1 22-9-3 to 27-3-0, Zone2 27-3-0 to 32-3-3, Zone1 32-3-3 to 37-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
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) 16 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) 16=358, 10=342.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

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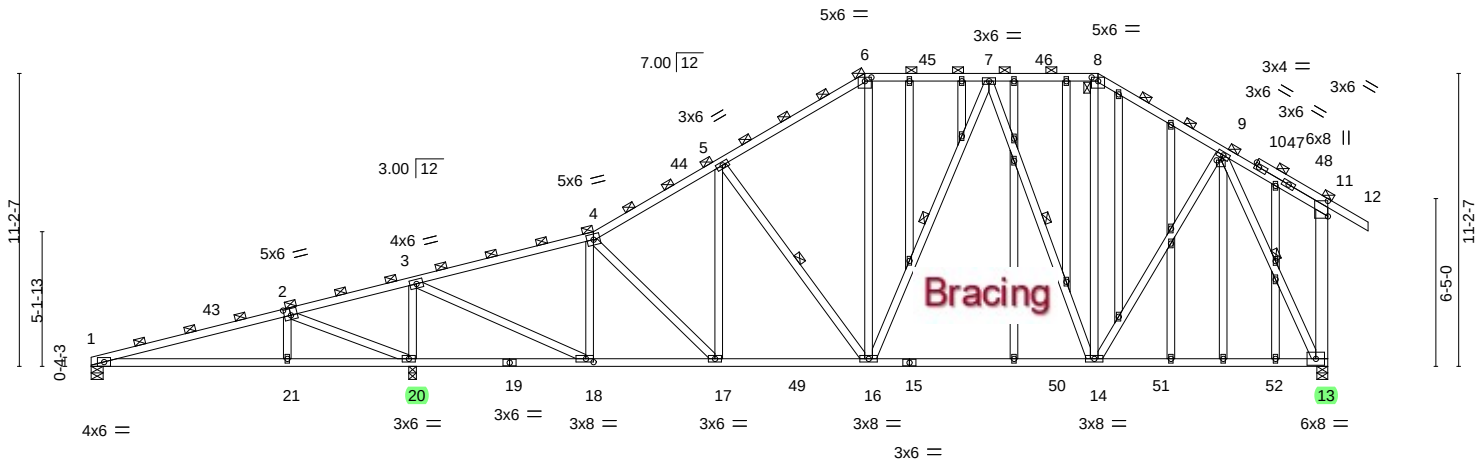
Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717712
3981398	T06G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:18 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-lqJhgw91IxWHhoBMCoibpq6teyI75jF794rcOAzLVRd

7-6-0	12-3-8	19-2-8	24-0-0	29-7-0	34-4-0	38-6-1	43-2-0	47-3-8	48-10-0
7-6-0	4-9-8	6-11-0	4-9-8	5-7-0	4-9-0	4-2-1	4-7-15	4-1-8	1-6-8

Scale = 1:88.1



7-6-0	12-3-8	19-2-8	24-0-0	29-7-0	38-6-1	47-3-8
7-6-0	4-9-8	6-11-0	4-9-8	5-7-0	8-11-1	8-9-7

Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [6:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-2-0,0-0-7], [11:0-7-2,0-0-0], [18:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.22	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.35	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 414 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 11-13: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (4-2-11 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-16, 7-16, 7-14, 9-13

REACTIONS. (size) 1=0-5-8, 20=0-3-8, 13=0-5-0
Max Horz 1=369(LC 11)
Max Uplift 1=-128(LC 8), 20=-574(LC 12), 13=-282(LC 13)
Max Grav 1=287(LC 27), 20=2195(LC 2), 13=1507(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-286/217, 2-3=-268/750, 3-4=-1339/353, 4-5=-1552/439, 5-6=-1323/446, 6-7=-1089/416, 7-8=-867/390, 8-9=-1055/401, 11-13=-271/214
BOT CHORD 18-20=-728/246, 17-18=-372/1303, 16-17=-396/1347, 14-16=-286/1011, 13-14=-198/572
WEBS 2-21=-5/261, 2-20=-893/303, 3-20=-1661/499, 3-18=-477/2164, 4-18=-694/238, 5-16=-426/229, 6-16=-100/434, 7-16=-92/300, 7-14=-472/204, 8-14=-88/348, 9-14=-135/578, 9-13=-1274/332

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-8-12, Zone1 4-8-12 to 29-7-0, Zone2 29-7-0 to 36-3-4, Zone1 36-3-4 to 38-6-1, Zone2 38-6-1 to 45-2-5, Zone1 45-2-5 to 48-10-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=128, 20=574, 13=282.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717713
3981398	T07	Piggyback Base	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:18 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-lqJhgw91IxWHhoBMCoibpq6utyJn5gX794rcOAzLVRd

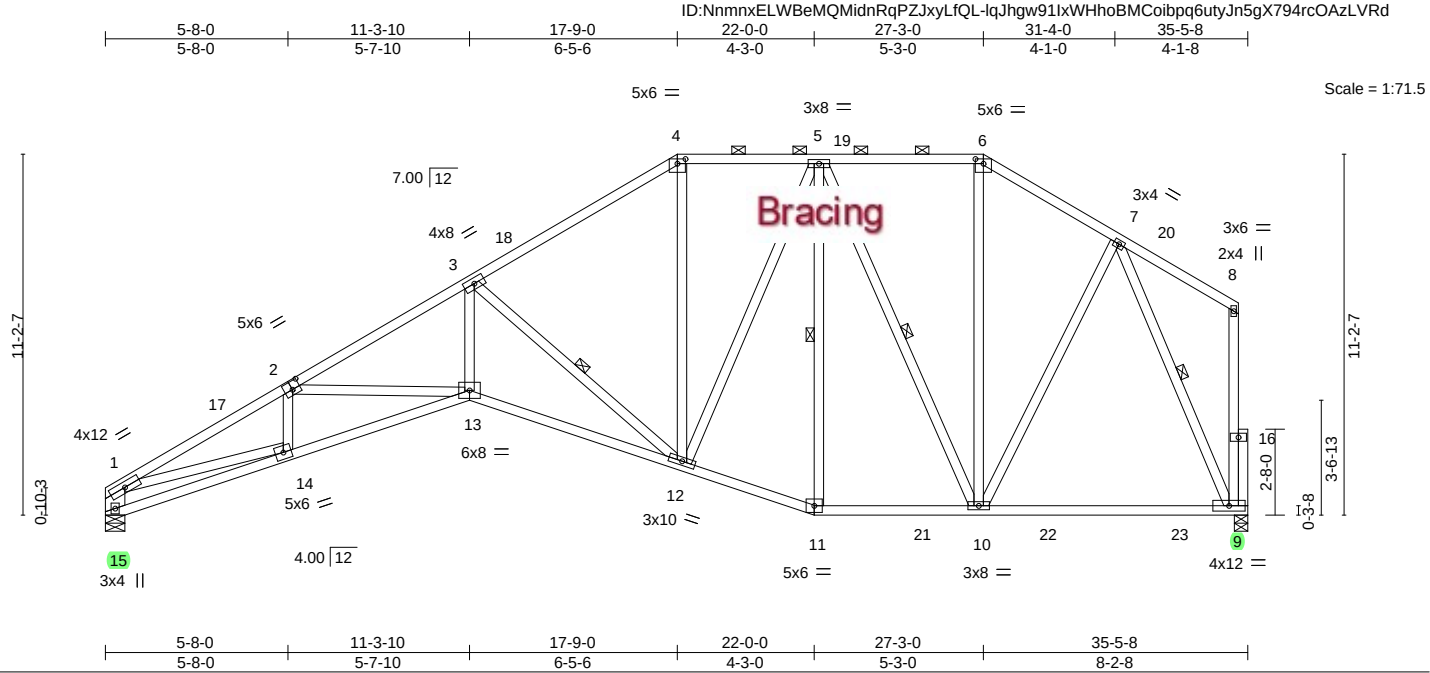

Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.30	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.55	12-13	>766	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.33	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 269 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 8-9,1-14: 2x4 SP No.2, 1-15: 2x8 SP 2400F 2.0E
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 3-12, 5-11, 5-10, 7-9

REACTIONS. (size) 15=0-7-4, 9=0-5-0
Max Horz 15=353(LC 9)
Max Uplift 15=-355(LC 12), 9=-297(LC 13)
Max Grav 15=1427(LC 19), 9=1458(LC 2)

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

TOP CHORD	1-2=-3760/1017, 2-3=-3692/1007, 3-4=-1599/485, 4-5=-1321/475, 5-6=-849/302, 6-7=-1027/324, 1-15=-1479/451
BOT CHORD	14-15=-403/524, 13-14=-1043/3574, 12-13=-933/3491, 11-12=-311/1172, 10-11=-295/1084, 9-10=-200/565
WEBS	2-14=-279/150, 3-13=-587/2417, 3-12=-2555/795, 4-12=-95/545, 5-12=-199/724, 5-11=-270/114, 5-10=-602/233, 6-10=-102/318, 7-10=-166/634, 7-9=-1325/328, 1-14=-737/2942

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-10 to 3-10-3, Zone1 3-10-3 to 17-9-0, Zone2 17-9-0 to 22-9-3, Zone1 22-9-3 to 27-3-0, Zone2 27-3-0 to 32-3-3, Zone1 32-3-3 to 35-0-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
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) 15 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) 15=355, 9=297.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717714
3981398	T07G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:19 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-D0t3tGAg3Fe8JylYlWEqL2eylMeHqEWGNkaAwczLVRc

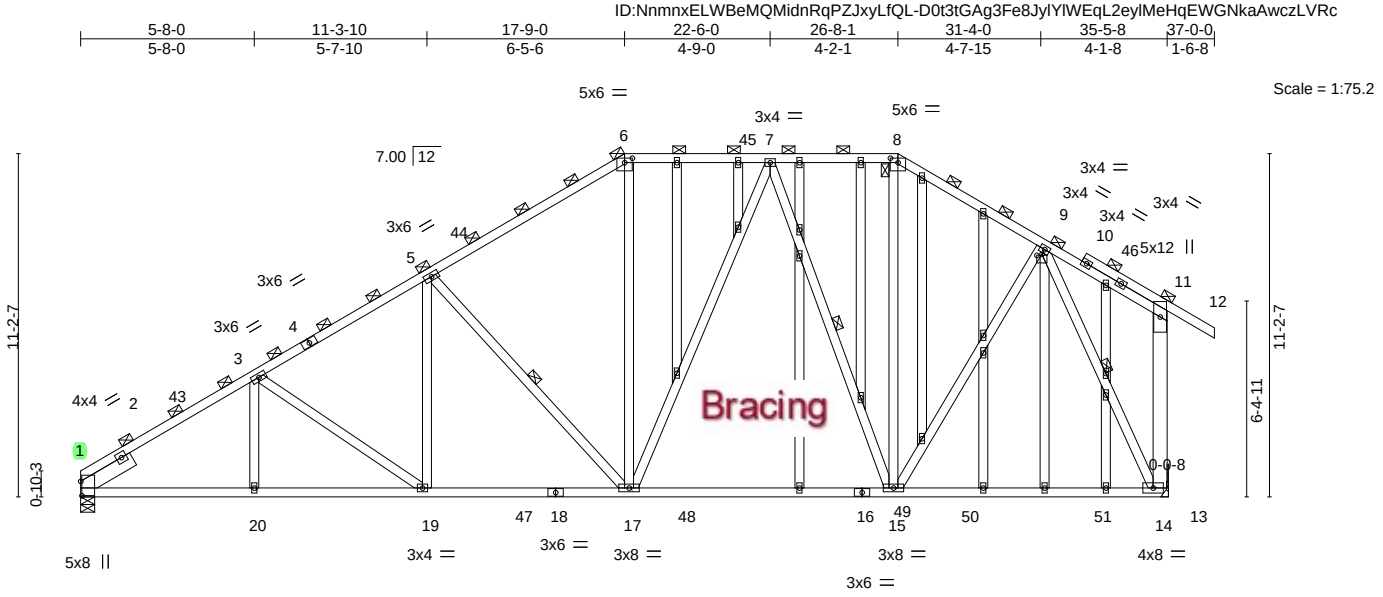

Plate Offsets (X,Y)-- [1:0-5-10,0-0-7], [6:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-2-0,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.21	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.35	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 358 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 11-14: 2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	2-0-0 oc purlins (2-2-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-17, 7-15, 9-14

REACTIONS. (size) 1=0-5-8, 14=Mechanical
Max Horz 1=350(LC 11)
Max Uplift 1=-360(LC 12), 14=-344(LC 13)
Max Grav 1=1486(LC 19), 14=1605(LC 2)

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

TOP CHORD	1-3=-2192/549, 3-5=-1934/523, 5-6=-1501/455, 6-7=-1232/448, 7-8=-935/316, 8-9=-1134/341, 11-14=-285/147
BOT CHORD	1-20=-556/2004, 19-20=-556/2004, 17-19=-423/1774, 15-17=-272/1114, 14-15=-178/617
WEBS	3-19=-279/160, 5-19=-57/414, 5-17=-738/310, 6-17=-82/491, 7-17=-132/433, 7-15=-557/234, 8-15=-114/385, 9-15=-151/620, 9-14=-1342/300

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-6-9, Zone1 3-6-9 to 17-9-0, Zone2 17-9-0 to 22-6-0, Zone1 22-6-0 to 26-8-1, Zone2 26-8-1 to 31-4-14, Zone1 31-4-14 to 37-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=360, 14=344.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717715
3981398	T08	Piggyback Base	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:20 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-hDRS5bBIqZm?w6KkJDl3uFBEMm_gZa3QcOKjT3zLVRb

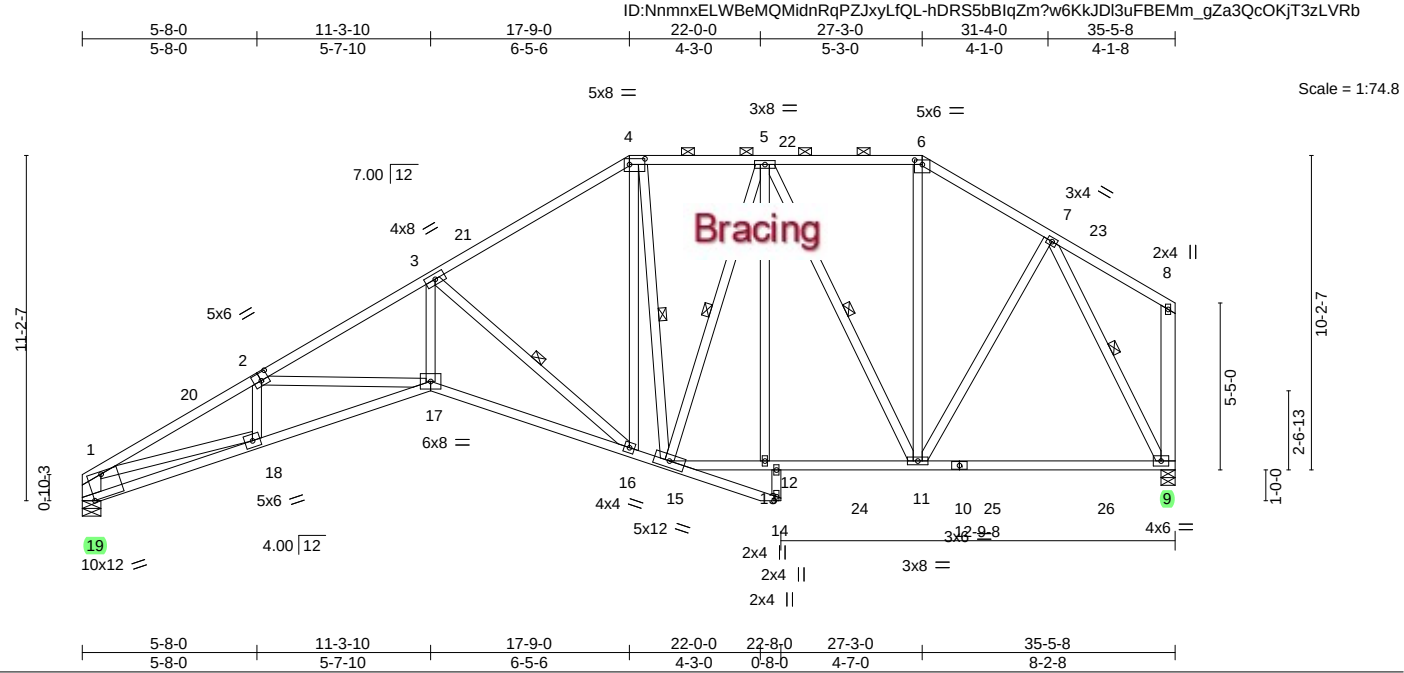

Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [4:0-6-0,0-2-4], [6:0-3-0,0-1-12], [19:0-5-8,0-9-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.53	Vert(LL)	-0.33	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.98	Vert(CT)	-0.58	16-17	>717	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	1.00	Horz(CT)	0.33	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 282 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2, 1-19: 2x8 SP 2400F 2.0E, 1-18: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-4 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-16, 5-15, 5-11, 7-9, 4-15

REACTIONS. (size) 19=0-7-4, 9=0-5-8
Max Horz 19=291(LC 12)
Max Uplift 19=-345(LC 12), 9=-295(LC 13)
Max Grav 19=1452(LC 19), 9=1489(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3787/1102, 2-3=-3730/1111, 3-4=-1641/483, 4-5=-1273/438, 5-6=-962/299, 6-7=-1157/316, 1-19=-1488/481
BOT CHORD 18-19=-403/473, 17-18=-1243/3554, 16-17=-1125/3481, 15-16=-386/1455, 13-15=-301/1238, 12-13=-301/1236, 11-12=-301/1236, 9-11=-143/664
WEBS 2-18=-281/161, 3-17=-720/2412, 3-16=-2551/916, 4-16=-313/1208, 5-15=-131/274, 5-11=-646/251, 6-11=-100/382, 7-11=-140/608, 7-9=-1384/316, 1-18=-807/2970, 4-15=-682/240

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-10 to 3-10-3, Zone1 3-10-3 to 17-9-0, Zone2 17-9-0 to 22-9-3, Zone1 22-9-3 to 27-3-0, Zone2 27-3-0 to 32-3-3, Zone1 32-3-3 to 35-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
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) 19 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) 19=345, 9=295.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717716
3981398	T09	Scissor	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:21 2024 Page 1
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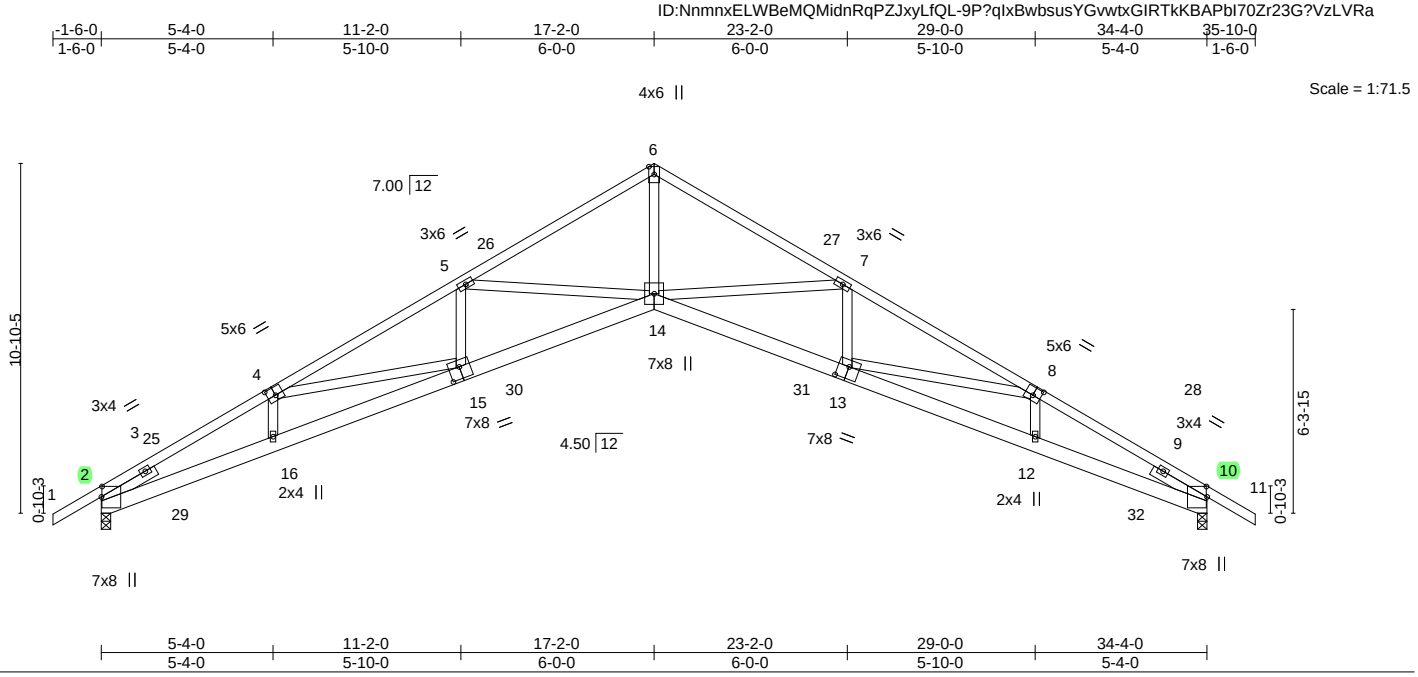

Plate Offsets (X,Y)-- [2:0-3-14,0-0-4], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-3-14,0-0-4], [13:0-4-0,0-4-8], [15:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.43	14	>965	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.79	14	>519	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.68	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 2-15,10-13: 2x6 SP M 26
WEBS	2x4 SP No.3 *Except* 6-14: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-9-3 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-269(LC 10)
Max Uplift 2=-355(LC 12), 10=-355(LC 13)
Max Grav 2=1351(LC 1), 10=1351(LC 1)

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

TOP CHORD	2-4=-3684/1564, 4-5=-3981/1585, 5-6=-3155/1129, 6-7=-3155/1120, 7-8=-3981/1596, 8-10=-3685/1572
BOT CHORD	2-16=-1270/3226, 15-16=-1287/3377, 14-15=-1177/3643, 13-14=-1205/3643, 12-13=-1310/3377, 10-12=-1295/3226
WEBS	6-14=-1007/2799, 7-14=-812/526, 7-13=-170/273, 8-13=-128/352, 8-12=-311/99, 5-14=-812/528, 5-15=-157/273, 4-15=-24/304, 4-16=-311/129

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-11-3, Zone1 1-11-3 to 17-2-0, Zone2 17-2-0 to 22-0-4, Zone1 22-0-4 to 35-10-0 zone; 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=355, 10=355.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES
3981398	T09G	GABLE	1	2	T33717717
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:23 2024 Page 1
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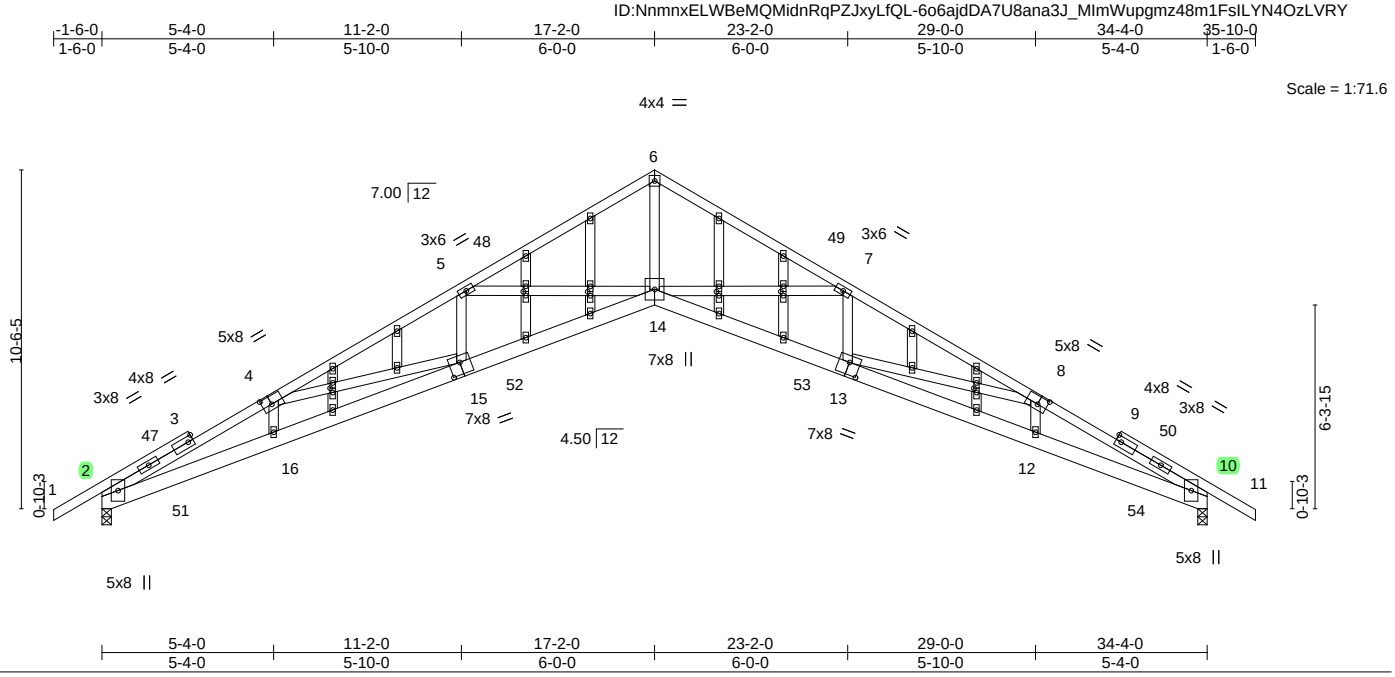

Plate Offsets (X,Y)-- [4:0-3-8,0-3-0], [8:0-3-8,0-3-0], [13:0-4-0,0-4-8], [15:0-4-0,0-4-8], [17:0-1-8,0-1-0], [20:0-1-8,0-1-0], [25:0-1-10,0-1-0], [30:0-1-8,0-1-0], [33:0-1-8,0-1-0], [38:0-1-10,0-1-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.33	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.61	14	>673	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.51	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 441 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-261(LC 10)
Max Uplift 2=-356(LC 12), 10=-356(LC 13)
Max Grav 2=1351(LC 1), 10=1351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4384/1870, 4-5=-4547/1800, 5-6=-3420/1218, 6-7=-3420/1209, 7-8=-4547/1815, 8-10=-4384/1882
BOT CHORD 2-16=-1593/3976, 15-16=-1613/4113, 14-15=-1382/4139, 13-14=-1414/4140, 12-13=-1640/4113, 10-12=-1621/3976
WEBS 6-14=-1095/3062, 7-14=-1021/635, 7-13=-201/360, 8-13=-131/279, 8-12=-383/129, 5-14=-1021/636, 5-15=-201/360, 4-16=-383/161

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-11-3, Zone1 1-11-3 to 17-2-0, Zone2 17-2-0 to 22-0-4, Zone1 22-0-4 to 35-10-0 zone; 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
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 MT20 unless otherwise indicated.
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.

Continued on page 2

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NOTES-

11) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=356, 10=356.
13) Studding applied to ply: 1(Front)

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717718
3981398	T10	Scissor	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:23 2024 Page 1
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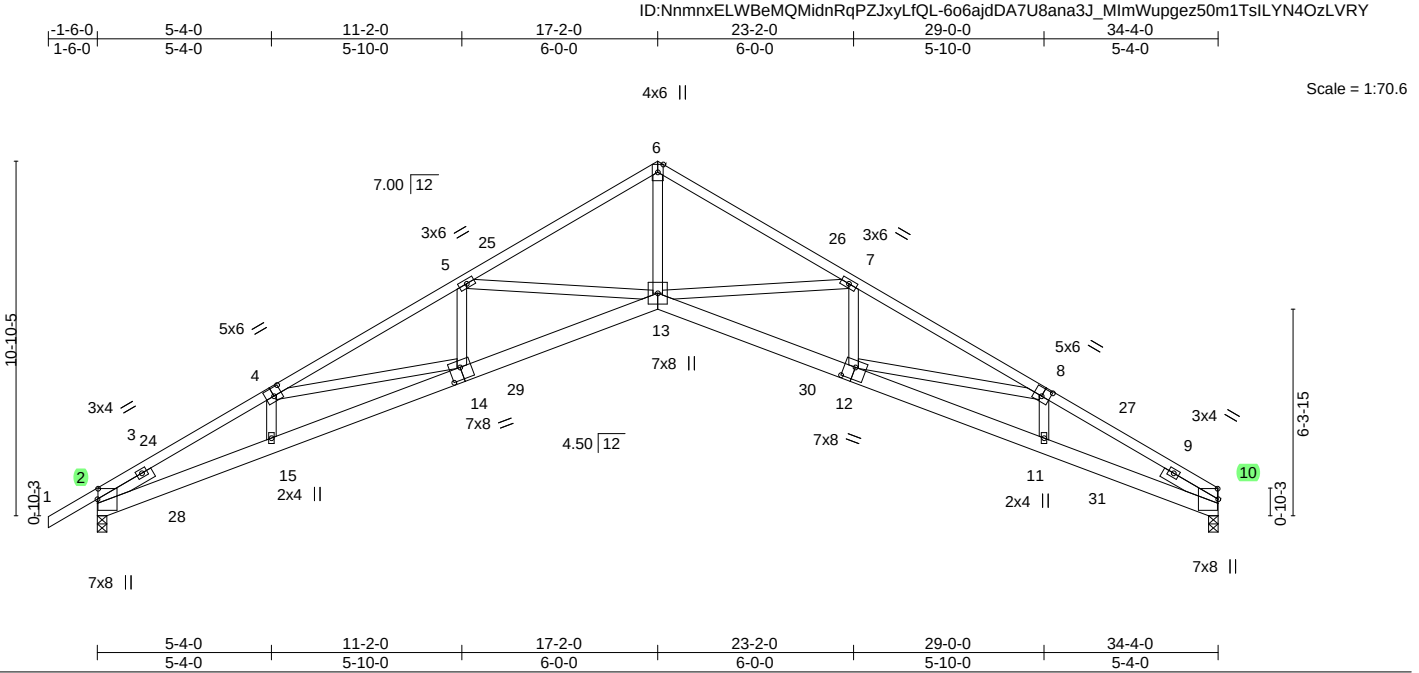

Plate Offsets (X,Y)-- [2:0-3-14,0-0-4], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-3-14,0-0-4], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.43	13	>962	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.80	13	>518	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.68	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 2-14,10-12: 2x6 SP M 26
WEBS	2x4 SP No.3 *Except* 6-13: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-0-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-6-15 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=262(LC 11)
Max Uplift 2=-355(LC 12), 10=-317(LC 13)
Max Grav 2=1353(LC 1), 10=1269(LC 1)

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

TOP CHORD	2-4=-3690/1608, 4-5=-3989/1645, 5-6=-3164/1172, 6-7=-3164/1181, 7-8=-3997/1643, 8-10=-3726/1639
BOT CHORD	2-15=-1351/3231, 14-15=-1369/3383, 13-14=-1276/3650, 12-13=-1259/3657, 11-12=-1383/3415, 10-11=-1368/3268
WEBS	6-13=-1060/2807, 7-13=-818/526, 7-12=-169/274, 8-12=-131/334, 8-11=-301/100, 5-13=-812/523, 5-14=-156/273, 4-14=-30/306, 4-15=-312/131

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-11-3, Zone1 1-11-3 to 17-2-0, Zone2 17-2-0 to 22-0-4, Zone1 22-0-4 to 34-4-0 zone; 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=355, 10=317.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717719
3981398	T11	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:24 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-a_gyxzEounGRPjeVY3p?25MtQNSqVb_?X?lxcqzLVRX

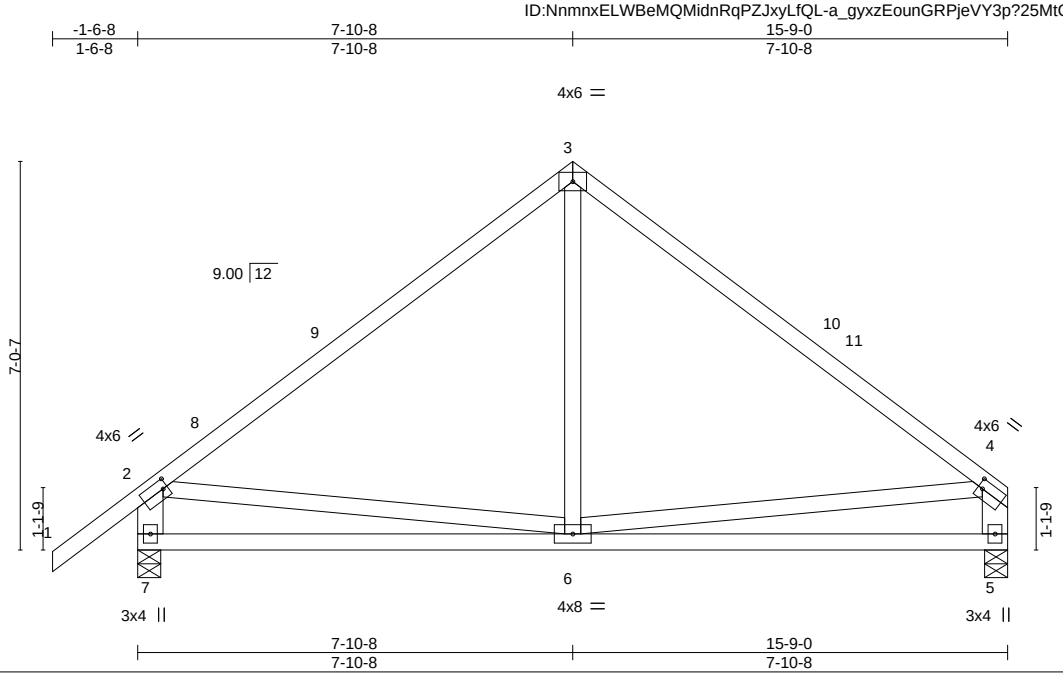

Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [4:0-1-0,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.13	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 91 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-7,4-5: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-5-0, 5=0-5-0
Max Horz 7=199(LC 9)
Max Uplift 7=-176(LC 12), 5=-130(LC 13)
Max Grav 7=667(LC 1), 5=560(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-582/176, 3-4=-572/179, 2-7=-600/279, 4-5=-493/199
BOT CHORD 6-7=-335/454
WEBS 3-6=0/312, 2-6=-152/304

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 7-10-8, Zone2 7-10-8 to 12-1-7, Zone1 12-1-7 to 15-6-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=176, 5=130.

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May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717720
3981398	T11G	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:25 2024 Page 1
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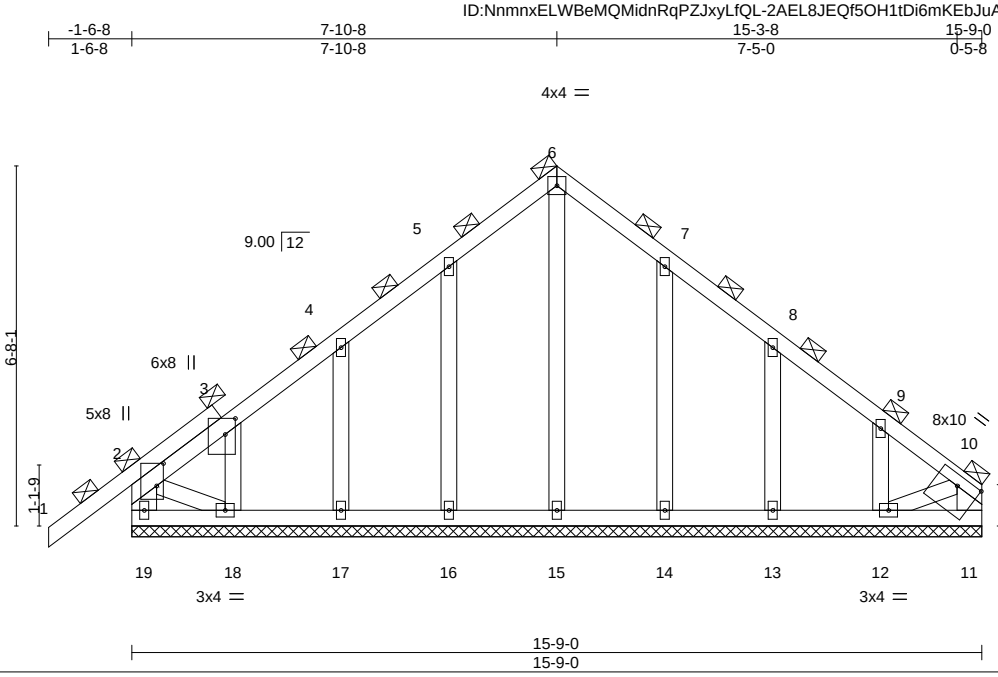

Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [3:0-3-9,0-2-4], [10:0-5-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 102 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 2-18,10-12: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19.

REACTIONS. All bearings 15-9-0.
(lb) - Max Horz 19=182(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 19, 11, 16, 17, 14, 13 except 18=-129(LC 12), 12=-132(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 19, 11, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 11, 16, 17, 14, 13 except (jt=lb) 18=129, 12=132.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717721
3981398	T12	Common Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:25 2024 Page 1
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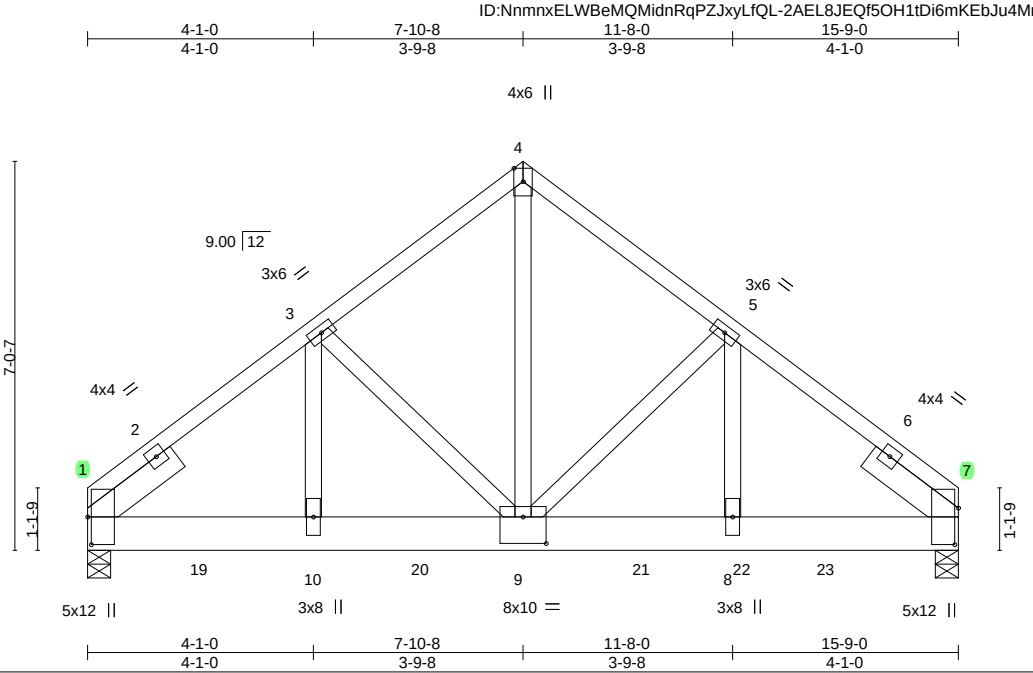

Plate Offsets (X,Y)-- [1:0-6-0,0-0-13], [5:0-0-0,0-0-0], [7:0-0-0,0-0-0], [7:0-7-15,0-0-13], [9:0-5-0,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.12	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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

REACTIONS. (size) 1=0-5-0, 7=0-5-0
Max Horz 1=146(LC 5)
Max Uplift 1=-1287(LC 8), 7=-1270(LC 9)
Max Grav 1=5172(LC 2), 7=5081(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5866/1484, 3-4=-4679/1242, 4-5=-4677/1242, 5-7=-5978/1516
BOT CHORD 1-10=-1196/4594, 9-10=-1196/4594, 8-9=-1143/4678, 7-8=-1143/4678
WEBS 3-10=-379/1551, 3-9=-1214/421, 4-9=-1369/5321, 5-9=-1332/455, 5-8=-425/1711

NOTES-
1) 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: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) except (jt=lb) 1=1287, 7=1270.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1350 lb down and 341 lb up at 2-0-4, 1316 lb down and 341 lb up at 4-0-4, 1316 lb down and 341 lb up at 6-0-4, 1316 lb down and 341 lb up at 8-0-4, 1316 lb down and 341 lb up at 10-0-4, and 1316 lb down and 341 lb up at 11-4-4, and 1316 lb down and 341 lb up at 13-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Date:

May 1,2024

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 11-15=-20
   Concentrated Loads (lb)
   Vert: 10=-1197(B) 9=-1197(B) 19=-1229(B) 20=-1197(B) 21=-1197(B) 22=-1197(B) 23=-1197(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717722
3981398	T13	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:26 2024 Page 1
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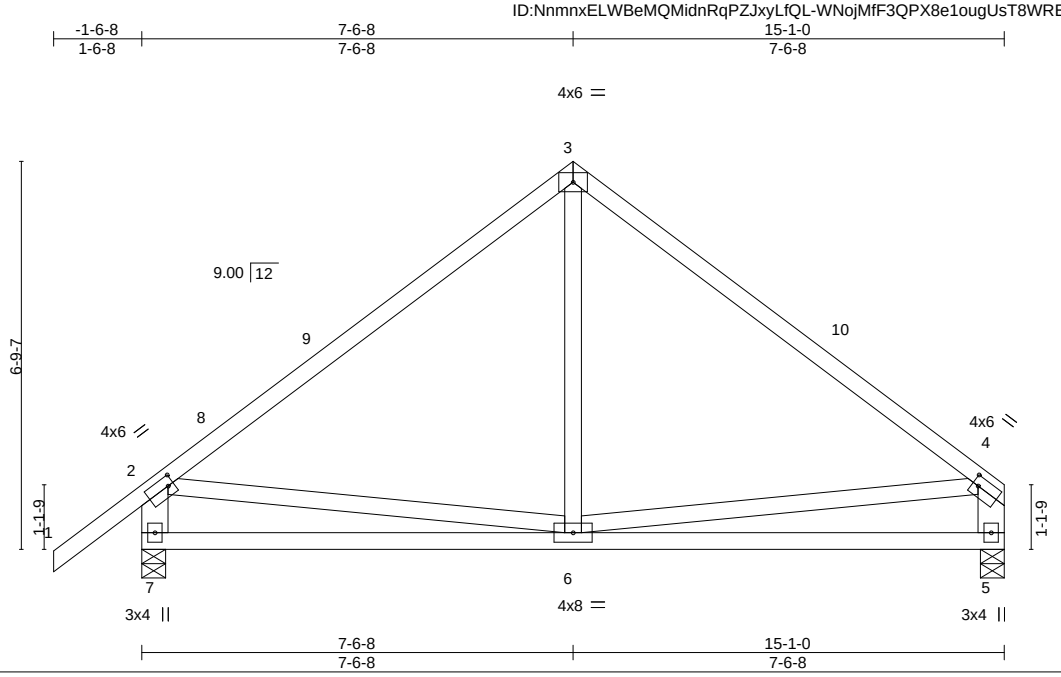

Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [4:0-1-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7,4-5: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-5-0, 5=0-5-0
Max Horz 7=192(LC 9)
Max Uplift 7=-170(LC 12), 5=-124(LC 13)
Max Grav 7=643(LC 1), 5=535(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-553/175, 3-4=-543/179, 2-7=-578/282, 4-5=-471/200
BOT CHORD 6-7=-306/415
WEBS 3-6=0/296, 2-6=-134/277

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 7-6-8, Zone2 7-6-8 to 11-9-7, Zone1 11-9-7 to 14-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=170, 5=124.

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May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717723
3981398	T13G	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:27 2024 Page 1
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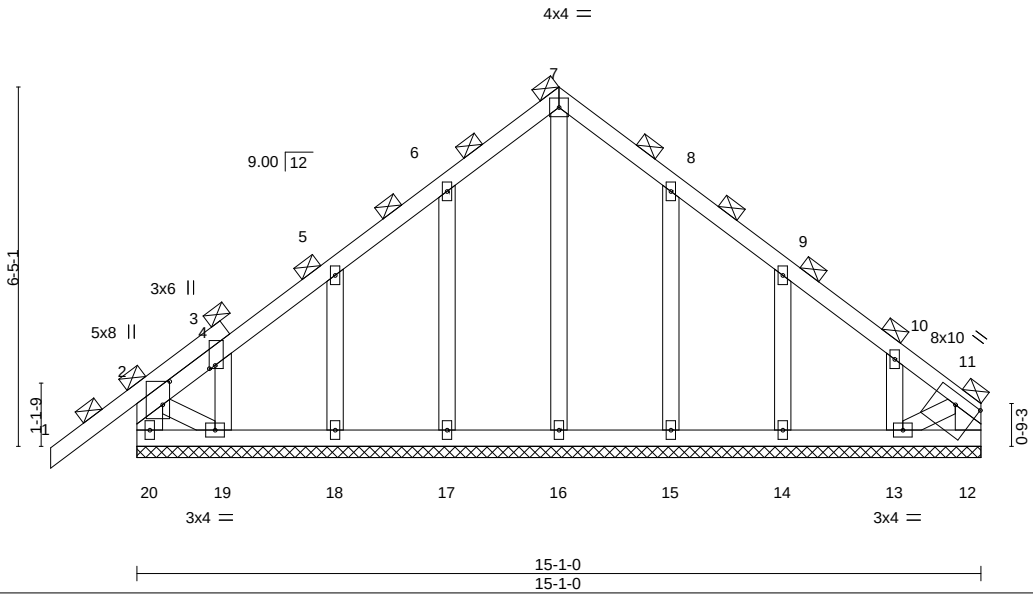

Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [3:0-0-11,0-1-4], [11:0-5-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 96 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-19,11-13: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20.

REACTIONS. All bearings 15-1-0.
(lb) - Max Horz 20=176(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 15, 14 except 19=-122(LC 12), 13=-132(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 15, 14 except (jt=lb) 19=122, 13=132.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717724
3981398	T14	Common Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:28 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-SlwTmKHJy0nsuLxHnvuxDxWcg_tmRBMbSdG8lbzLVRT

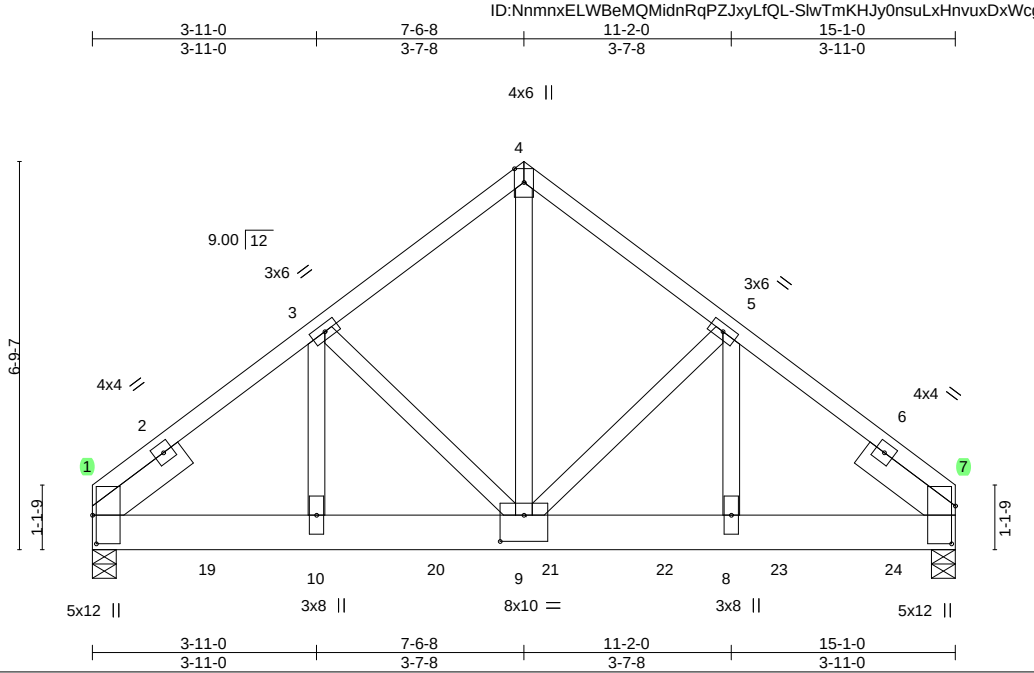

Plate Offsets (X,Y)-- [1:0-6-0,0-0-13], [5:0-0-0,0-0-0], [7:0-0-0,0-0-0], [7:0-7-15,0-0-13], [9:0-5-0,0-5-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.06	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 232 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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

REACTIONS. (size) 1=0-5-0, 7=0-5-0
Max Horz 1=140(LC 5)
Max Uplift 1=-1226(LC 8), 7=-1370(LC 9)
Max Grav 1=5116(LC 2), 7=5724(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5718/1395, 3-4=-4508/1156, 4-5=-4509/1156, 5-7=-5785/1413
BOT CHORD 1-10=-1122/4472, 9-10=-1122/4472, 8-9=-1065/4531, 7-8=-1065/4531
WEBS 3-10=-376/1600, 3-9=-1236/410, 4-9=-1271/5126, 5-9=-1318/433, 5-8=-402/1692

NOTES-
1) 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: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) except (jt=lb) 1=1226, 7=1370.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1441 lb down and 348 lb up at 2-0-4, 1398 lb down and 348 lb up at 4-0-4, 1398 lb down and 348 lb up at 6-0-4, 1398 lb down and 348 lb up at 8-0-4, 1398 lb down and 348 lb up at 10-0-4, and 1398 lb down and 348 lb up at 12-0-4, and 1441 lb down and 348 lb up at 14-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

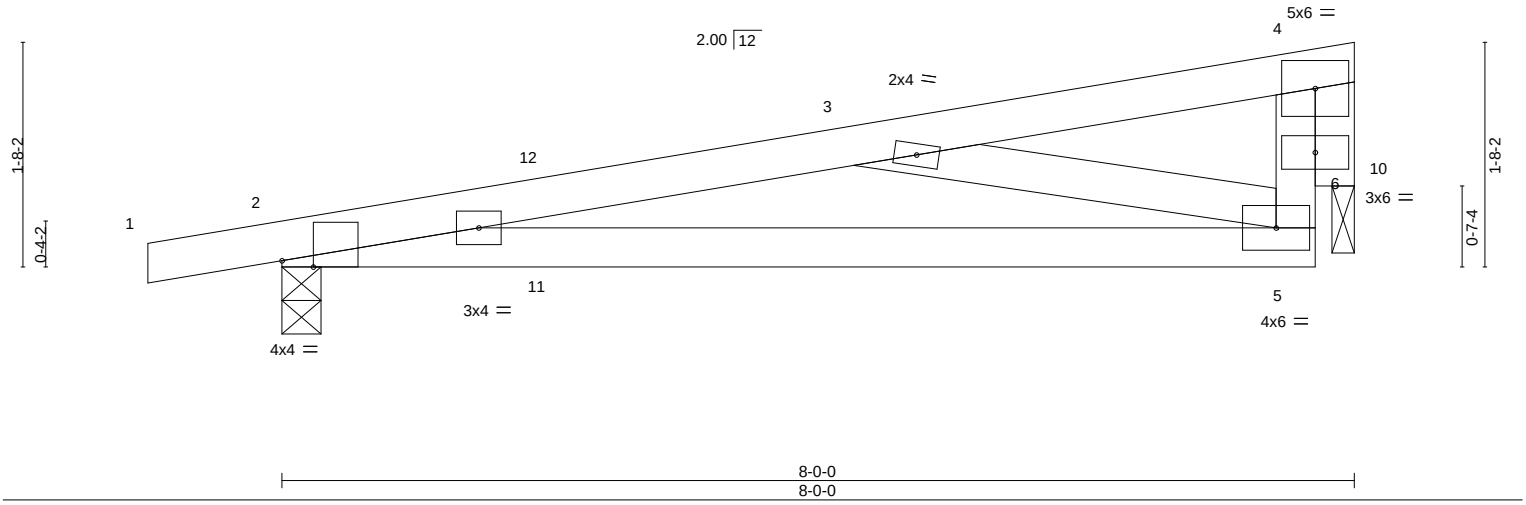
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 11-15=-20
   Concentrated Loads (lb)
   Vert: 10=-1292(F) 19=-1292(F) 20=-1292(F) 21=-1292(F) 22=-1292(F) 23=-1292(F) 24=-1292(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717725
3981398	T15	MONO TRUSS	17	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:28 2024 Page 1
ID:NnmnxELWBeMQMidnRqPZJxyLfQL-SlwTmKHJy0nsuLxHnvuxDxWfm_riRO6bSdG8lbzLVRT

-1-0-0 4-8-13 8-0-0
1-0-0 4-8-13 3-3-3

Scale = 1:17.2



8-0-0
8-0-0

Plate Offsets (X,Y)-- [2:0-2-13,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.07	5-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	5-9	>834	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 33 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-2-0
Max Horz 2=57(LC 8)
Max Uplift 2=-210(LC 8), 10=-155(LC 8)
Max Grav 2=350(LC 1), 10=264(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-740/593
BOT CHORD 2-5=-633/730
WEBS 3-5=-618/538, 4-10=-291/245

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 7-6-12 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 10=155.

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May 1,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717726
3981398	T15G	Monopitch Supported Gable	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:28 2024 Page 1
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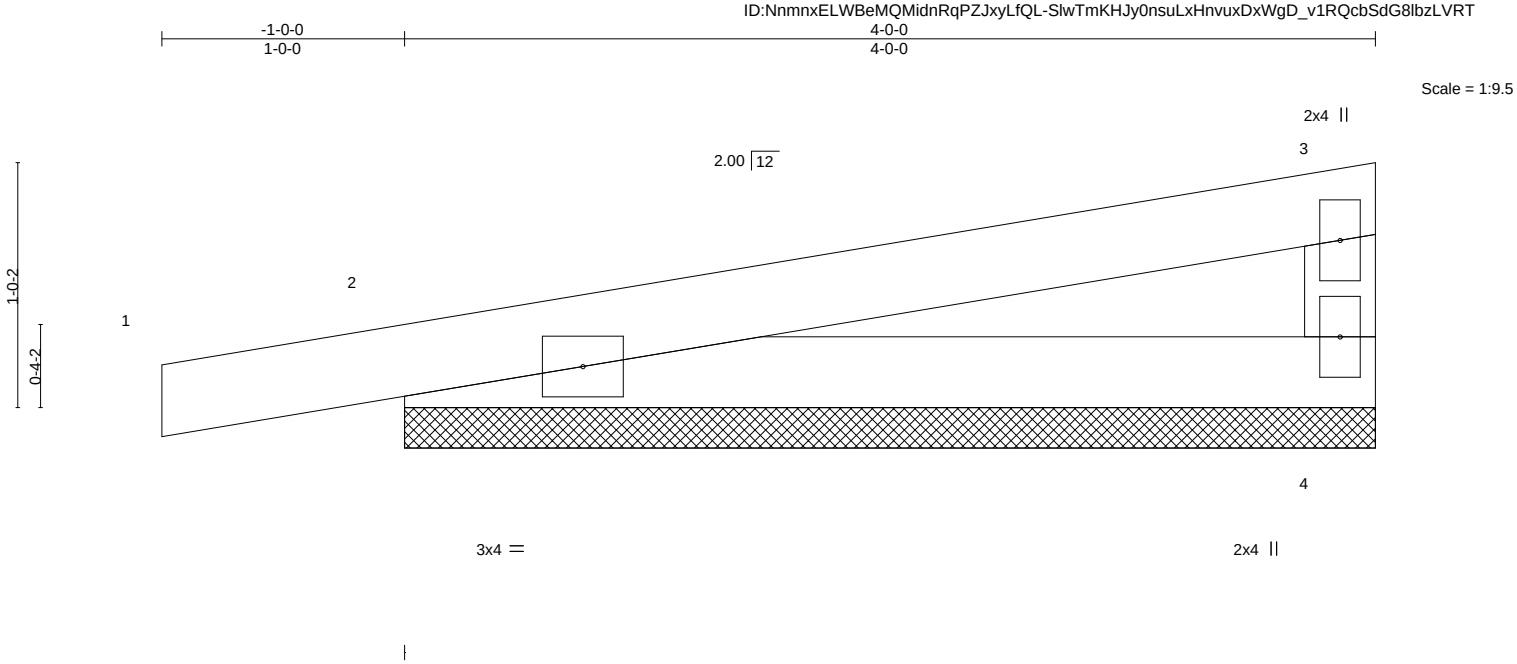

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 14 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 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=4-0-0, 2=4-0-0
Max Horz 2=33(LC 8)
Max Uplift 4=-46(LC 12), 2=-93(LC 8)
Max Grav 4=136(LC 1), 2=204(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; 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) 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717727
3981398	V01	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:29 2024 Page 1
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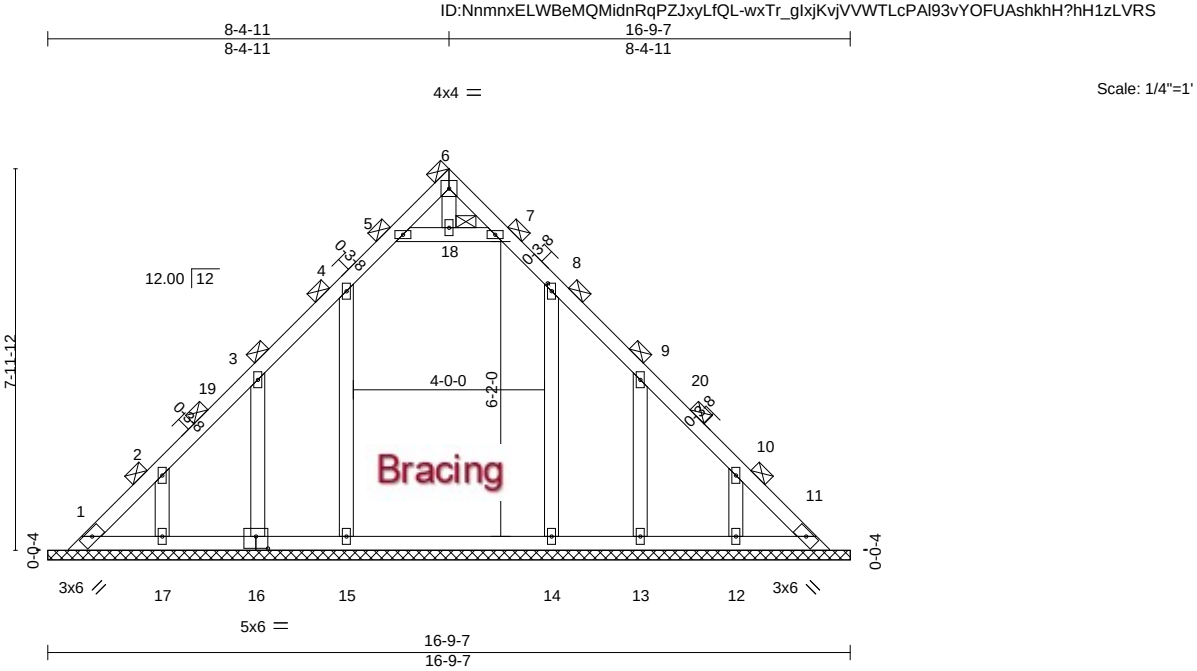

Plate Offsets (X,Y)-- [8:0-1-15,0-1-0], [16:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 91 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	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 6, 18

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.

REACTIONS. All bearings 16-9-7.
(lb) - Max Horz 1=-189(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 15, 14 except 16=-136(LC 12), 17=-125(LC 12), 13=-138(LC 13), 12=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 13, 12 except 15=310(LC 19), 14=295(LC 20)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-9-3 to 3-9-3, Zone1 3-9-3 to 8-4-11, Zone2 8-4-11 to 12-4-11, Zone1 12-4-11 to 16-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 15, 14 except (jt=lb) 16=136, 17=125, 13=138, 12=124.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 1,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717728
3981398	V02	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:30 2024 Page 1
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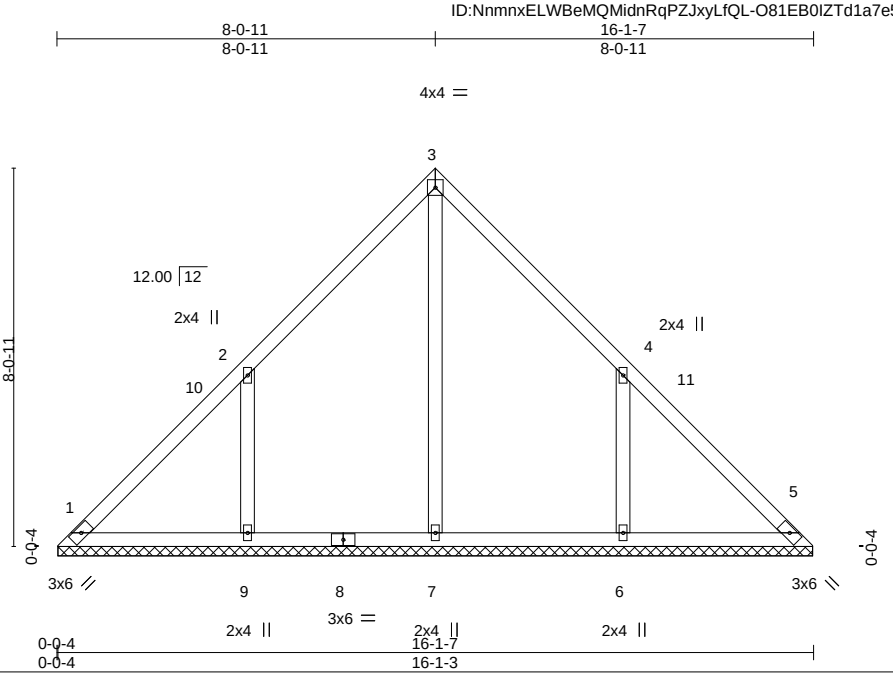

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 78 lb	FT = 20%

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

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

REACTIONS. All bearings 16-0-15.
(lb) - Max Horz 1=-190(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-291(LC 12), 6=-291(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=341(LC 22), 9=481(LC 19), 6=481(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-295/307, 4-6=-295/307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 8-0-11, Zone2 8-0-11 to 12-0-11, Zone1 12-0-11 to 15-9-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=291, 6=291.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. = CASTAGNA - WEST RES T33717729
3981398	V03	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue Apr 30 14:27:30 2024 Page 1
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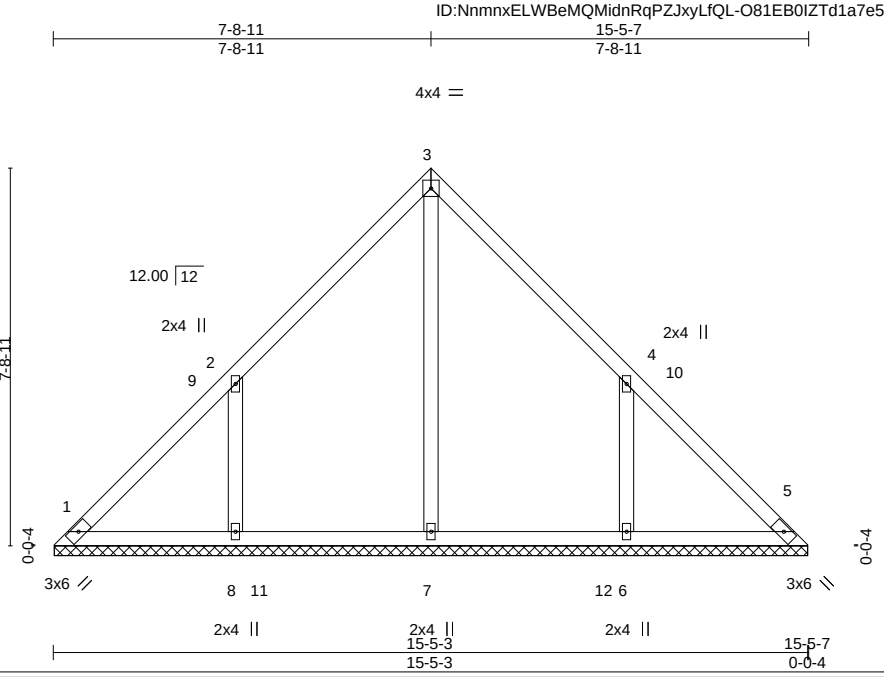

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%

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

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

REACTIONS. All bearings 15-4-15.
(lb) - Max Horz 1=182(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-279(LC 12), 6=-278(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=341(LC 22), 8=453(LC 19), 6=453(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-283/295, 4-6=-283/295

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 7-8-11, Zone2 7-8-11 to 11-8-11, Zone1 11-8-11 to 15-1-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=279, 6=278.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 1,2024

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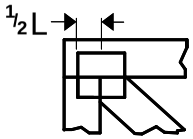
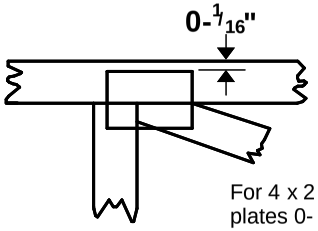
Symbols

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.

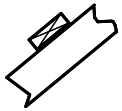
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

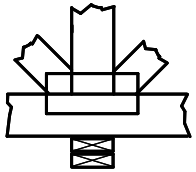
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

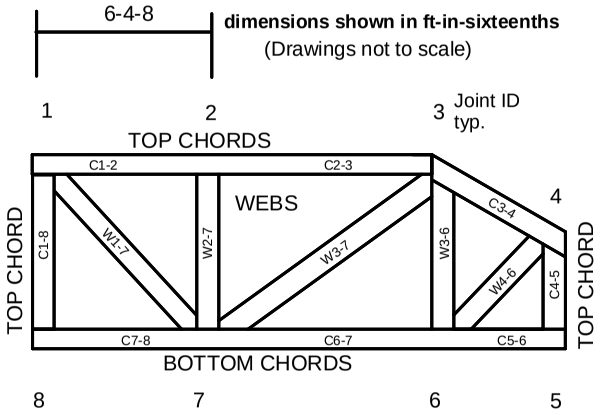


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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.

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. 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.