MiTek®

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

73

RE: 4124614 - GIEBEIG - BEADLE RES.

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

Site Information:
Customer Info: GIEBEIG CONST. Project Name: Beadle Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD US 441, N/A
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 9 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
1	T34432537	T01	7/12/24
2	T34432538	T01G	7/12/24
3	T34432539	T02	7/12/24
4	T34432540	T02G	7/12/24
5	T34432541	T03	7/12/24
6	T34432542	T03G	7/12/24
7	T34432543	T04	7/12/24
8	T34432544	T05	7/12/24
9	T34432545	T06	7/12/24

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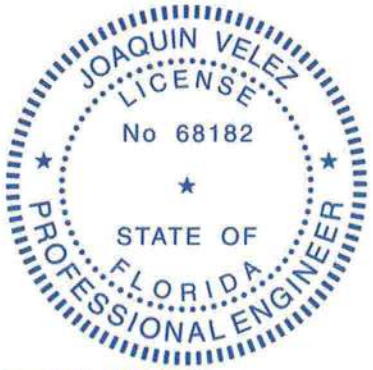
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

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

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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

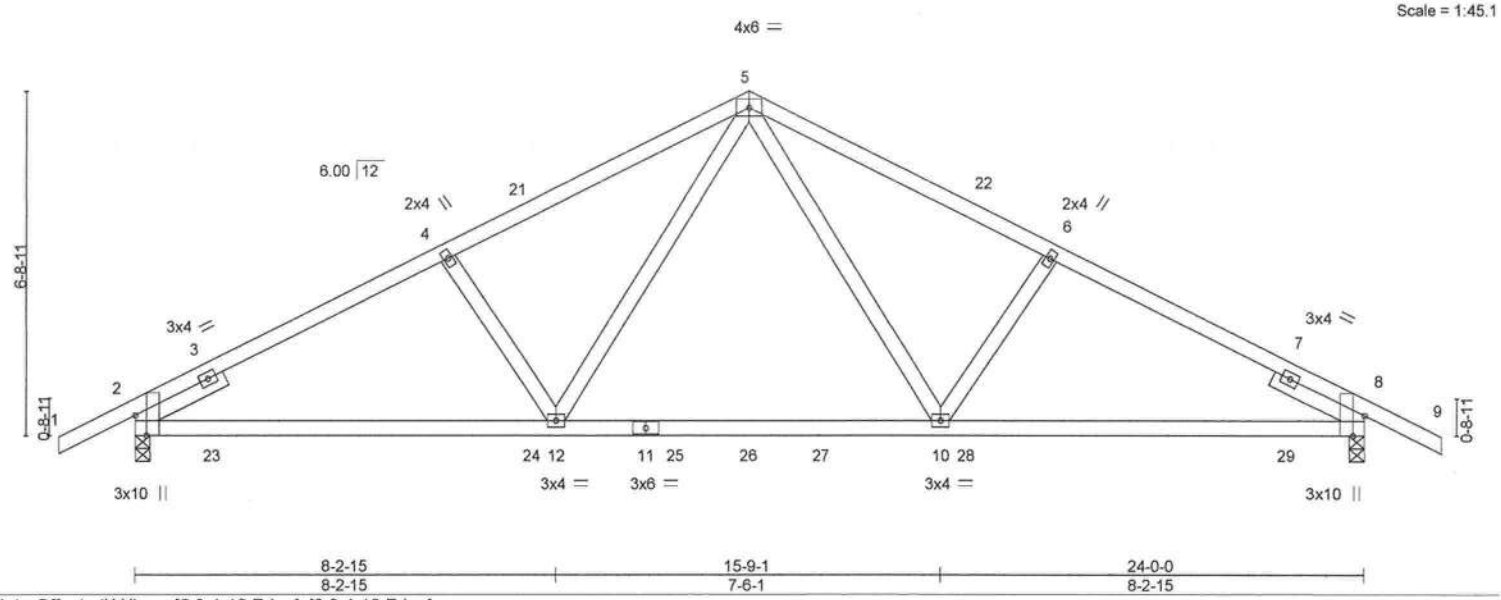
July 12,2024

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432537
4124614	T01	Common	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:00 2024 Page 1
ID:JuvfNYL6PDE3snhORvKu7gyys?d-boskfsaXdbGkx3TQ4nydGKg5aY3M_6tlV0GrjOyyr8z

-1-6-0 | 6-1-7 | 12-0-0 | 17-10-9 | 24-0-0 | 25-6-0
1-6-0 | 6-1-7 | 5-10-9 | 5-10-9 | 6-1-7 | 1-6-0

Scale = 1:45.1



8-2-15 | 15-9-1 | 24-0-0
8-2-15 | 7-6-1 | 8-2-15

Plate Offsets (X,Y)-- [2:0-4-12,Edge], [8:0-4-12,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	0.45	Vert(LL)	-0.16	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.24	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 120 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
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 4-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-9 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=145(LC 12)
Max Uplift 2=-439(LC 9), 8=-439(LC 8)
Max Grav 2=1035(LC 2), 8=1035(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1486/1095, 4-5=-1375/1091, 5-6=-1375/1091, 6-8=-1486/1095
BOT CHORD 2-12=-855/1288, 10-12=-522/909, 8-10=-880/1288
WEBS 5-10=-450/549, 6-10=-280/294, 5-12=-450/549, 4-12=-280/293

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 C; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=439, 8=439.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 12,2024

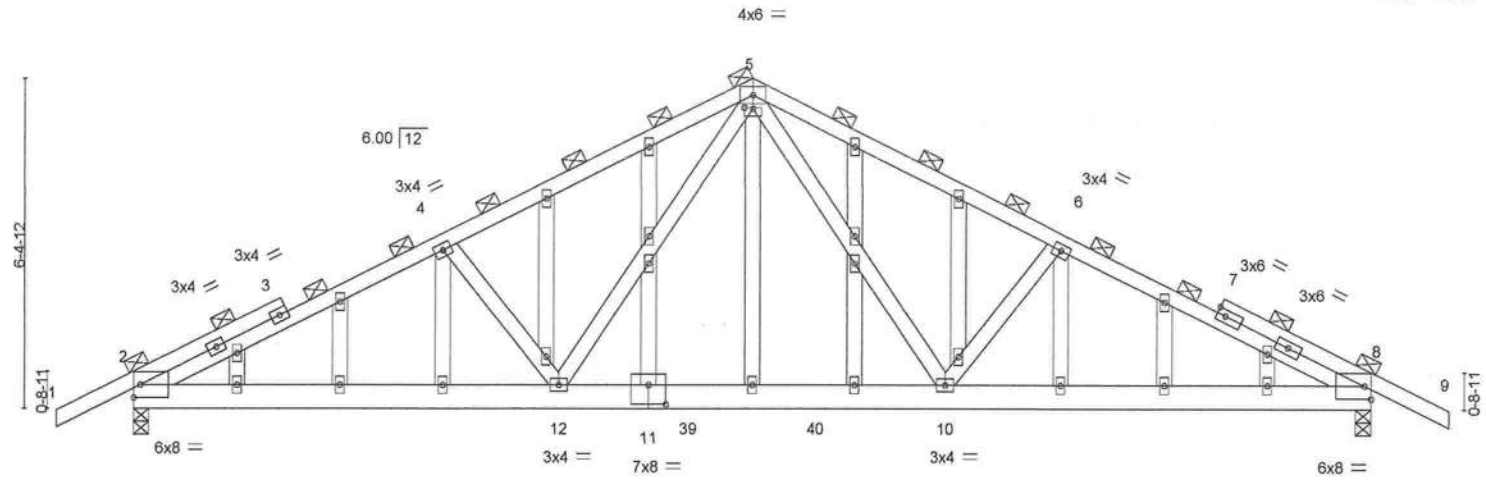
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432538
4124614	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:01 2024 Page 1
ID:JuvfNYL6PDE3snhORvKu7gyys?d-4_Q6sCbAOvObZD2ceUTspYCEtyUZjXHujg?OFryyr8y

-1-6-0	6-1-9	12-0-0	17-10-7	24-0-0	25-6-0
1-6-0	6-1-9	5-10-7	5-10-7	6-1-9	1-6-0

Scale = 1:44.7



8-3-0	15-9-0	24-0-0
8-3-0	7-6-0	8-3-0

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

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	0.61	Vert(LL)	0.10	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.14	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 187 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	2-0-0 oc purlins (4-3-6 max.).
BOT CHORD	Rigid ceiling directly applied or 6-4-11 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=138(LC 12)
Max Uplift 2=-437(LC 9), 8=-437(LC 8)
Max Grav 2=1027(LC 2), 8=1027(LC 2)

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

TOP CHORD	2-4=-1610/1575, 4-5=-1468/1527, 5-6=-1468/1527, 6-8=-1610/1575
BOT CHORD	2-12=-1283/1416, 10-12=-711/938, 8-10=-1291/1416
WEBS	4-12=-329/419, 5-12=-628/608, 5-10=-628/608, 6-10=-329/419

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 C; 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
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 100 lb uplift at joint(s) except (jt=lb) 2=437, 8=437.
10) 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 Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 12,2024

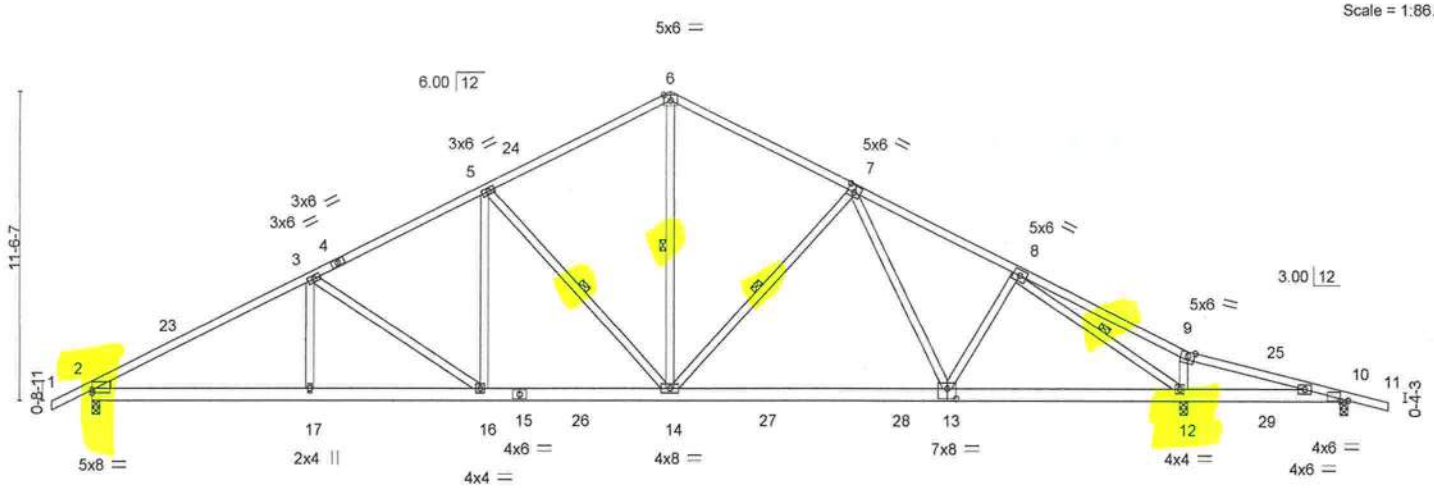
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432539
4124614	T02	Roof Special	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:01 2024 Page 1
ID:JuvfNYL6PDE3snhORvKu7gyys?d-4_Q6sCbAOvObZD2ceUTspYCBUyNWjU3ujg?OFryyr8y

1-6-0	8-1-12	14-8-2	21-7-8	28-5-2	34-6-9	41-0-0	47-0-0	48-6-0
1-6-0	8-1-12	6-6-6	6-11-6	6-9-10	6-1-7	6-5-7	6-0-0	1-6-0

Scale = 1:86.2



8-1-12	14-8-2	21-7-8	32-0-0	40-10-4	41-0-0	47-0-0
8-1-12	6-6-6	6-11-6	10-4-8	8-10-4	0-1-12	6-0-0

Plate Offsets (X,Y)-- [2:0-0-0,0-1-6], [7:0-3-0,0-3-0], [10:0-3-6,0-0-3], [13:0-4-0,0-4-8]

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	0.83	Vert(LL)	-0.23	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.39	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 299 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 6-14, 7-14, 8-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
Max Horz 2=252(LC 16)
Max Uplift 2=-642(LC 12), 12=-706(LC 13), 10=-254(LC 9)
Max Grav 2=1725(LC 2), 12=2001(LC 2), 10=272(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2879/1054, 3-5=-2406/968, 5-6=-1833/848, 6-7=-1832/834, 7-8=-2253/860
BOT CHORD 2-17=-977/2505, 16-17=-977/2505, 14-16=-693/2100, 13-14=-520/1866, 12-13=-541/1874
WEBS 3-16=-499/342, 5-16=-156/532, 5-14=-790/499, 6-14=-465/1289, 7-14=-480/403, 7-13=-83/293, 8-13=-7/269, 8-12=-2396/821, 9-12=-291/255

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 21-7-8, Zone2 21-7-8 to 28-6-9, Zone1 28-6-9 to 48-6-0 zone; porch 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=642, 12=706, 10=254.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 12,2024

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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432540
4124614	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:03 2024 Page 1
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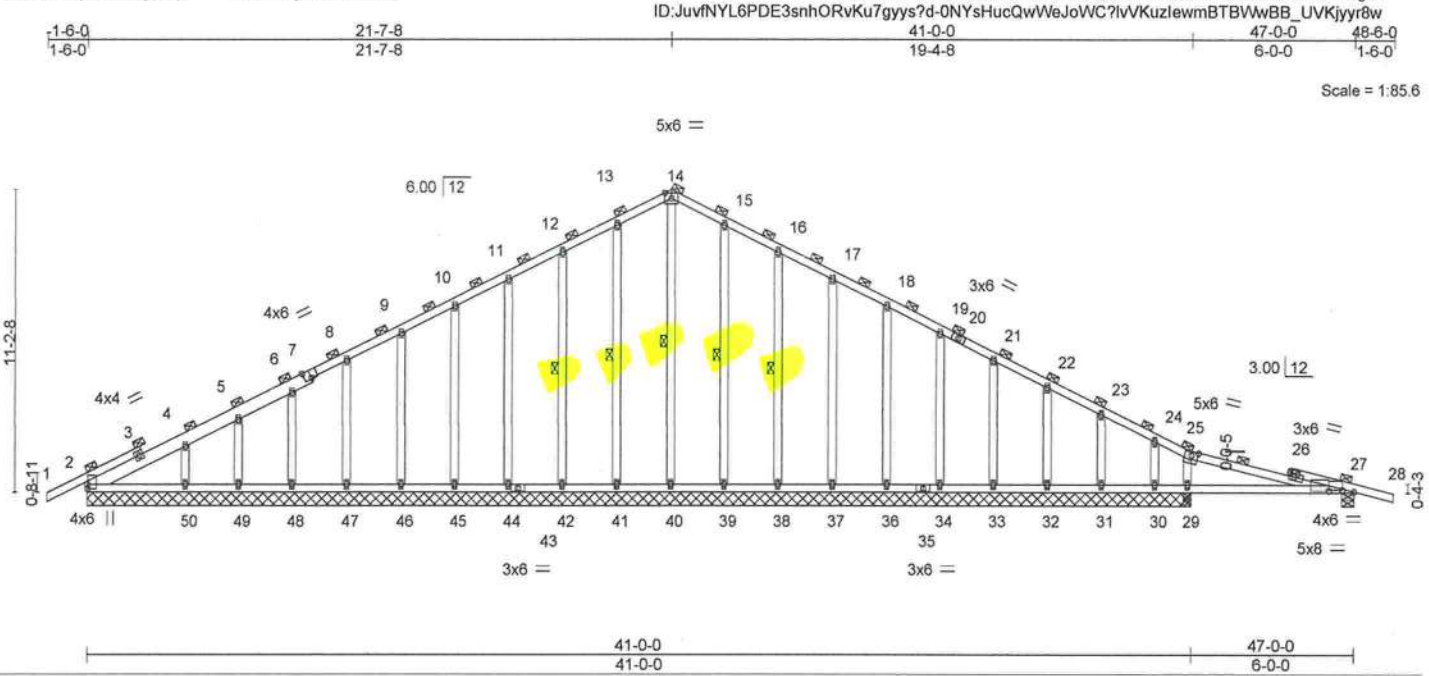

41-0-0 47-0-0
41-0-0 6-0-0

Plate Offsets (X,Y)-- [2:0-2-0,0-0-2], [7:0-3-0,Edge], [25:0-3-0,0-1-10], [27:0-5-4,0-0-13], [27:0-11-4,0-0-7]

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	0.38	Vert(LL)	0.05	27-29	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	27-29	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	27	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 334 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 2-7: 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 14-40, 13-41, 12-42, 15-39, 16-38

REACTIONS. All bearings 41-0-0 except (jt=length) 27=0-5-8.
(lb) - Max Horz 2=242(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 41, 44, 45, 46, 47, 49, 39, 37, 36, 34, 33, 32, 30 except 27=-260(LC 9), 42=-100(LC 12), 48=-104(LC 12), 50=-144(LC 12), 38=-102(LC 13), 31=-104(LC 13), 29=-292(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 41, 42, 44, 45, 46, 47, 48, 49, 50, 39, 38, 37, 36, 34, 33, 32, 31, 30 except 27=296(LC 1), 40=251(LC 22), 29=391(LC 1), 29=391(LC 1)

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

TOP CHORD	2-4=-315/133, 10-11=-71/305, 11-12=-92/392, 12-13=-114/485, 13-14=-134/563, 14-15=-134/563, 15-16=-114/485, 16-17=-92/392, 17-18=-71/305, 25-27=-261/76
BOT CHORD	2-50=-88/347, 49-50=-88/347, 48-49=-88/347, 47-48=-88/347, 46-47=-88/347, 45-46=-88/347, 44-45=-88/347, 42-44=-88/347, 41-42=-88/347, 40-41=-88/347, 39-40=-88/347, 38-39=-88/347, 37-38=-88/347, 36-37=-88/347, 34-36=-88/347, 33-34=-88/347, 32-33=-88/347, 31-32=-88/347, 30-31=-88/347, 29-30=-88/347, 27-29=-73/316
WEBS	14-40=-340/49, 4-50=-162/270, 25-29=-231/276

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch 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 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, 41, 44, 45, 46, 47, 49, 39, 37, 34, 33, 32, 30 except (jt=lb) 27=260, 42=100, 48=104, 50=144, 38=102, 31=104, 29=292.

Continued on page 3

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

July 12,2024

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NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432541
4124614	T03	Roof Special	13	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:03 2024 Page 1
ID:JuvfNYL6PDE3snhORvKu7gyys?d-0NYsHucQwWeJoWC?lvVKuzIbOm76BO1BB_UVKjyyr8w

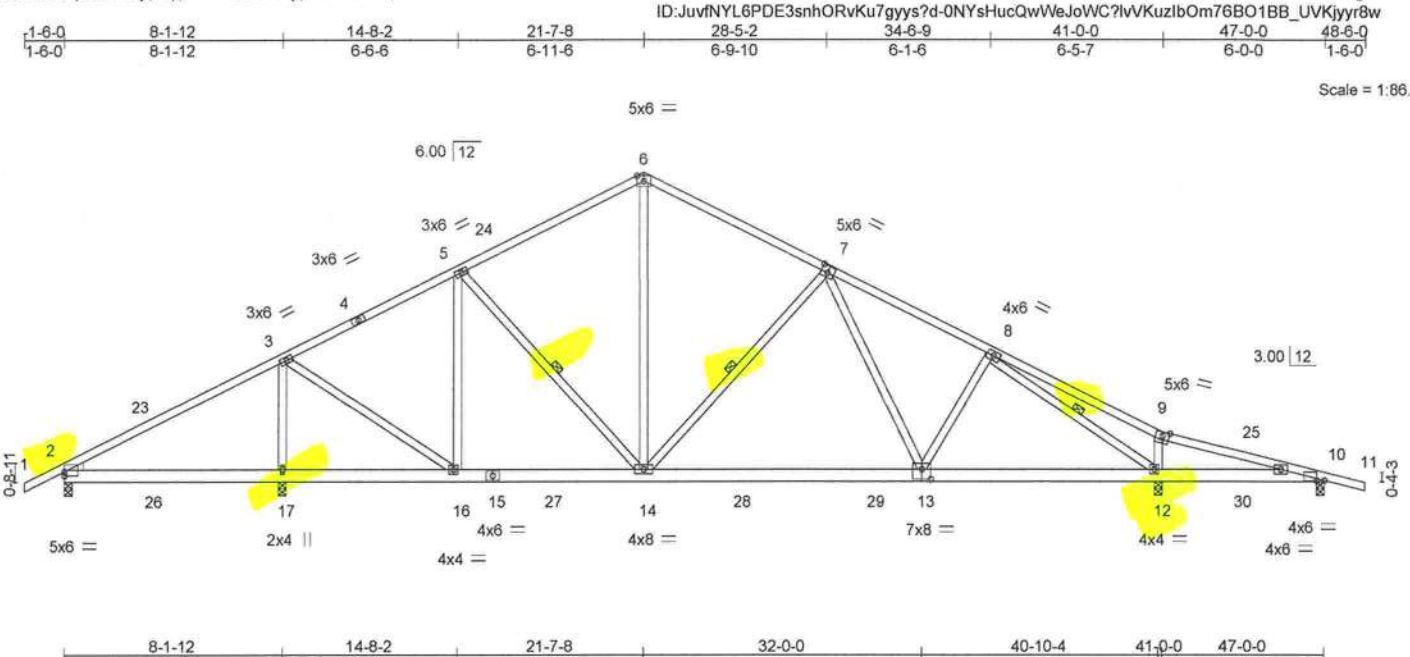

Plate Offsets (X,Y)-- [2:0-0-0,0-1-14], [7:0-3-0,0-3-0], [10:0-3-6,0-0-3], [13:0-4-0,0-4-8]

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	0.54	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.25	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 299 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 7-14, 8-12

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=252(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-227(LC 9), 17=-579(LC 12), 12=-611(LC 13), 10=-260(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=399(LC 25), 17=1747(LC 2), 12=1596(LC 2), 10=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-232/311, 3-5=-1088/592, 5-6=-1176/665, 6-7=-1177/648, 7-8=-1723/710
BOT CHORD 14-16=-301/949, 13-14=-373/1338, 12-13=-428/1465
WEBS 3-17=-1393/568, 3-16=-238/1110, 5-16=-447/192, 6-14=-300/701, 7-14=-547/423, 7-13=-114/397, 8-12=-1677/608, 9-12=-316/264

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 21-7-8, Zone2 21-7-8 to 28-6-9, Zone1 28-6-9 to 48-6-0 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2, 579 lb uplift at joint 17, 611 lb uplift at joint 12 and 260 lb uplift at joint 10.

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Date:

July 12,2024

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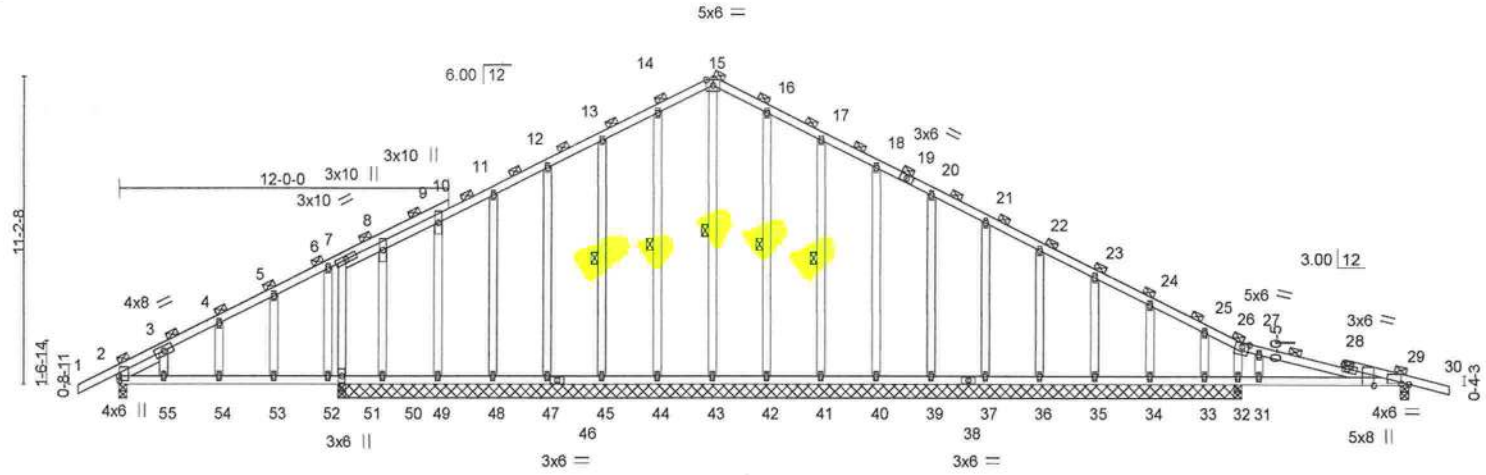
Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	
4124614	T03G	GABLE	1	1	Job Reference (optional)	T34432542

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:05 2024 Page 1
ID:JuvfNYL6PDE3snhORvKu7gyys?d-ylfdiZegS8u11qMOtKYozONwmZo3fOoUelzcOcyyr8u

1-6-0 | 21-7-8 | 41-0-0 | 47-0-0 | 48-6-0
1-6-0 | 21-7-8 | 19-4-8 | 6-0-0 | 1-6-0

Scale = 1:84.2



8-0-0 | 41-0-0 | 47-0-0
8-0-0 | 33-0-0 | 6-0-0

Plate Offsets (X,Y)-- [2:0-2-0,0-0-3], [26:0-3-0,0-1-10], [29:0-3-4,0-0-5], [29:0-0-9,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	0.61	Vert(LL)	0.27	54	>368	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.23	54	>428	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	29	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 343 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-10: 2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-8-7

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 15-43, 14-44, 13-45, 16-42, 17-41

REACTIONS. All bearings 33-0-0 except (jt=length) 2=0-3-8, 29=0-3-8.
(lb) - Max Horz 2=242(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 43, 44, 47, 48, 42, 40, 39, 37, 36, 35 except 2=-179(LC 8), 45=-103(LC 12), 49=-120(LC 12), 50=-248(LC 1), 41=-104(LC 13), 34=-114(LC 13), 33=-101(LC 1), 32=-392(LC 9), 51=-536(LC 12), 29=-276(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 44, 45, 47, 48, 49, 50, 42, 41, 40, 39, 37, 36, 35, 34, 33 except 2=412(LC 25), 43=282(LC 13), 32=521(LC 1), 32=521(LC 1), 51=744(LC 1), 51=744(LC 1), 29=318(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-302/154, 7-8=-246/515, 8-9=-191/471, 9-11=-174/546, 11-12=-195/645, 12-13=-201/730, 13-14=-225/826, 14-15=-242/897, 15-16=-242/897, 16-17=-225/826, 17-18=-202/730, 18-20=-181/643, 20-21=-181/555, 21-22=-181/467, 22-23=-180/378, 23-24=-182/292
WEBS 15-43=-620/137, 7-51=-434/745

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 C; 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
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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 44, 47, 48, 42, 40, 39, 37, 36, 35 except (jt=lb) 2=179, 45=103, 49=120, 50=248, 41=104, 34=114, 33=101, 32=392, 51=536, 29=276.
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:

July 12,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432543
4124614	T04	Roof Special	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:05 2024 Page 1
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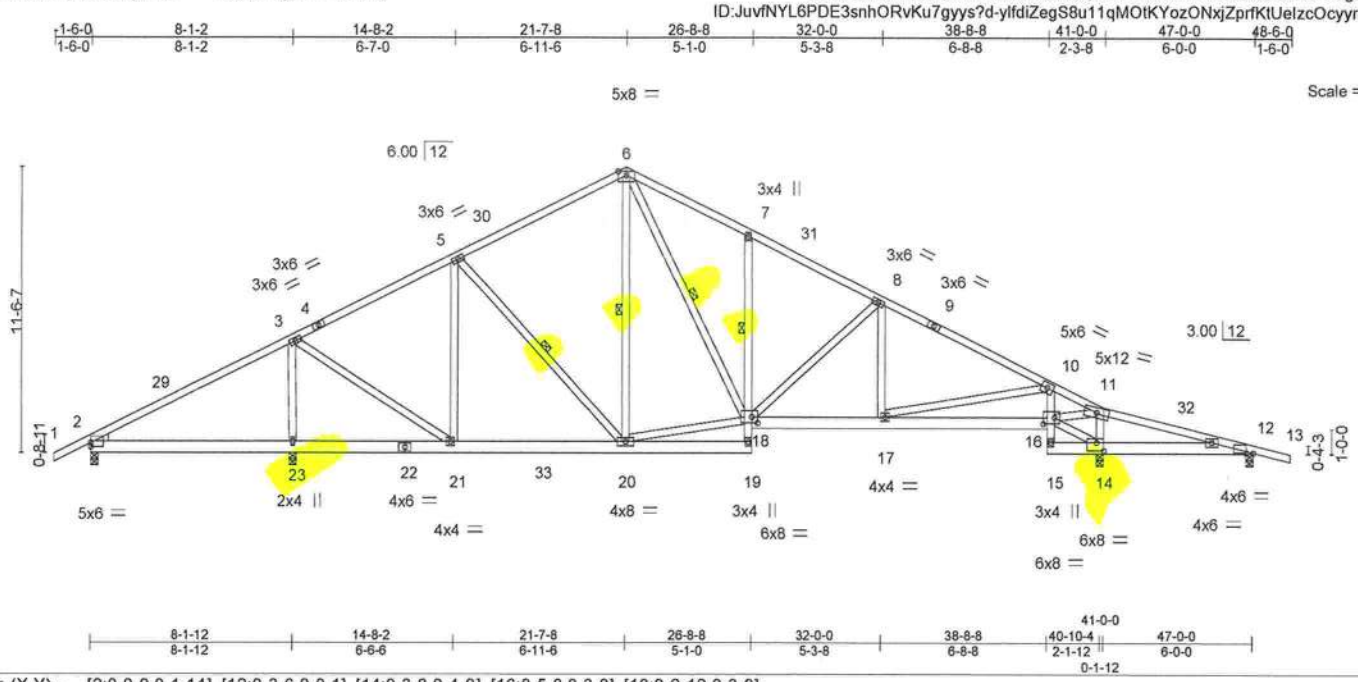

Plate Offsets (X,Y)-- [2:0-0-0,0-1-14], [12:0-3-6,0-0-1], [14:0-3-8,0-4-0], [16:0-5-8,0-3-0], [18:0-2-12,0-3-0]

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	0.55	Vert(LL)	-0.08	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 325 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-19,10-15: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-18
WEBS 1 Row at midpt 5-20, 6-20, 6-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=252(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-175(LC 12), 12=-195(LC 9), 23=-576(LC 12), 14=-705(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=389(LC 25), 23=1678(LC 2), 14=1836(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-1018/522, 5-6=-1053/615, 6-7=-1427/824, 7-8=-1442/670, 8-10=-1735/667, 10-11=-791/275, 11-12=-318/899
BOT CHORD 21-23=-156/254, 20-21=-286/909, 7-18=-280/310, 17-18=-403/1491, 16-17=-226/851, 10-16=-758/393, 12-14=-832/368
WEBS 3-23=-1335/568, 3-21=-301/1042, 5-21=-420/225, 18-20=-133/842, 6-18=-452/821, 8-18=-359/254, 10-17=-182/687, 14-16=-1017/482, 11-16=-547/1641, 11-14=-951/384

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 21-7-8, Zone2 21-7-8 to 28-3-4, Zone1 28-3-4 to 48-6-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2, 195 lb uplift at joint 12, 576 lb uplift at joint 23 and 705 lb uplift at joint 14.

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Date:

July 12,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432544
4124614	T05	Roof Special	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:06 2024 Page 1
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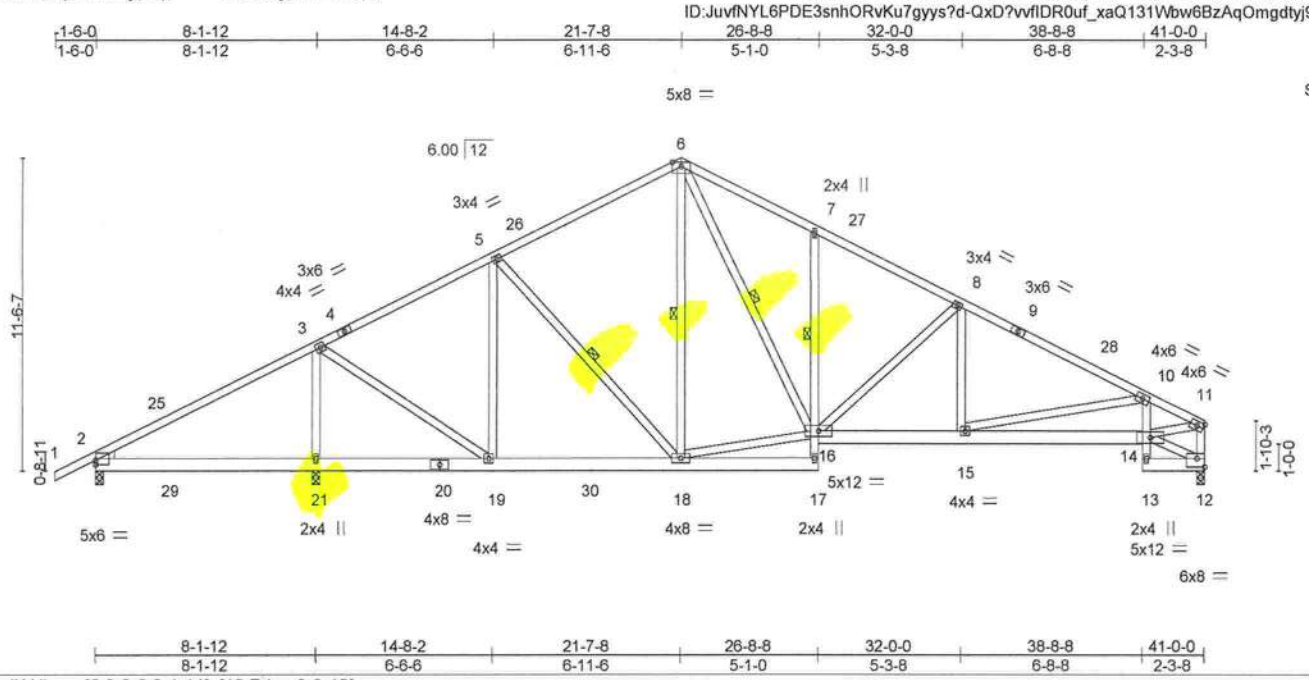

Plate Offsets (X,Y)-- [2:0-0-0,0-1-14], [12:Edge,0-3-12]

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	0.57	Vert(LL)	-0.09	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.16	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 300 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-17,10-13: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-16
WEBS 1 Row at midpt 5-18, 6-18, 6-16

REACTIONS. (size) 2=0-3-8, 21=0-3-8, 12=0-3-8
Max Horz 2=266(LC 16)
Max Uplift 2=-197(LC 9), 21=-597(LC 12), 12=-477(LC 13)
Max Grav 2=376(LC 25), 21=1762(LC 2), 12=1282(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-1038/537, 5-6=-1107/621, 6-7=-1544/835, 7-8=-1560/727, 8-10=-1993/799, 10-11=-1904/812, 11-12=-1210/525
BOT CHORD 2-21=-272/191, 19-21=-272/191, 18-19=-305/894, 7-16=-278/274, 15-16=-601/1722, 14-15=-839/1823, 10-14=-255/183
WEBS 3-21=-1414/584, 3-19=-281/1109, 5-19=-462/216, 16-18=-201/853, 6-16=-527/946, 8-16=-519/325, 8-15=-1/283, 11-14=-748/1712

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-7-3, Zone1 2-7-3 to 21-7-8, Zone2 21-7-8 to 27-5-2, Zone1 27-5-2 to 40-10-4 zone; end vertical right exposed; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 597 lb uplift at joint 21 and 477 lb uplift at joint 12.

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July 12,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - BEADLE RES.	T34432545
4124614	T06	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Fri Jul 12 10:12:07 2024 Page 1
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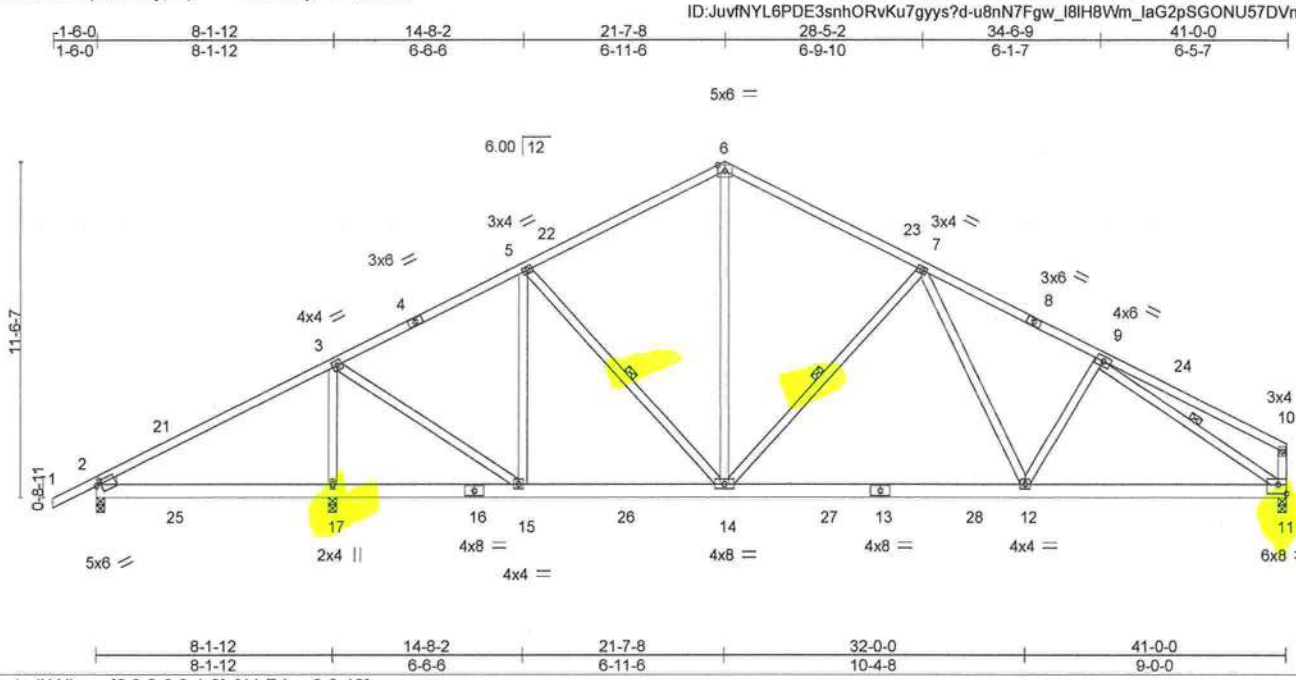

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [11:Edge,0-3-12]

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)	-0.15	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.24	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 274 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 7-14, 9-11

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=266(LC 16)
Max Uplift 2=-201(LC 9), 17=-583(LC 12), 11=-481(LC 13)
Max Grav 2=398(LC 25), 17=1753(LC 2), 11=1334(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-230/262, 3-5=-1090/551, 5-6=-1180/625, 6-7=-1179/621, 7-9=-1747/740
BOT CHORD 2-17=-250/164, 15-17=-250/164, 14-15=-322/937, 12-14=-431/1344, 11-12=-557/1483
WEBS 3-17=-1400/572, 3-15=-264/1095, 5-15=-448/197, 6-14=-288/707, 7-14=-560/428, 7-12=-125/421, 9-11=-1702/566

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-7-3, Zone1 2-7-3 to 21-7-8, Zone2 21-7-8 to 27-5-2, Zone1 27-5-2 to 40-10-4 zone; end vertical right exposed; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 2, 583 lb uplift at joint 17 and 481 lb uplift at joint 11.

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Date:

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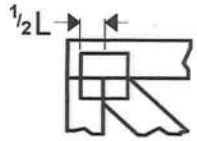
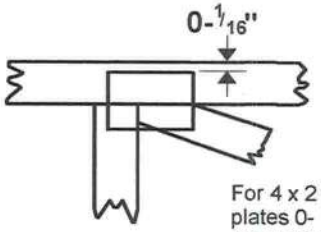
Symbols

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

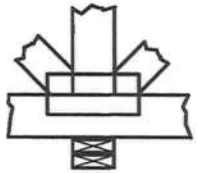
4 x 4

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

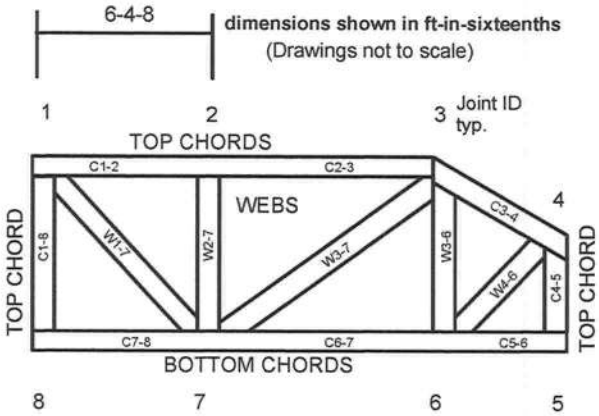


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.