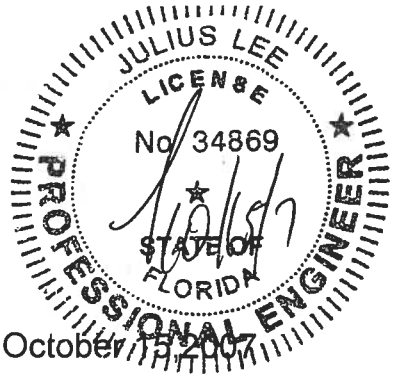
Builders FirstSource



October 15,2007

Project Information for: **L256809**

Lot : 2
Subdivision: ROSE CREEK
County: COLUMBIA
Truss Count: 65
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): 55.0 Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

Aaron D. Simque Florida Registered Building Contractor License No. RB29003130
Address: Aarom Simque Homes, Inc. Route 9 Box 785-33 Lake City, FL 32024

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date
1	J1901128	CJ1	10/15/07	29	J1901156	T12	10/15/07	57	J1901184	T38	10/15/07
2	J1901129	CJ3	10/15/07	30	J1901157	T13	10/15/07	58	J1901185	T39	10/15/07
3	J1901130	CJ5	10/15/07	31	J1901158	T13G	10/15/07	59	J1901186	T40	10/15/07
4	J1901131	EJ1	10/15/07	32	J1901159	T14	10/15/07	60	J1901187	T41	10/15/07
5	J1901132	EJ2	10/15/07	33	J1901160	T15	10/15/07	61	J1901188	T42	10/15/07
6	J1901133	EJ2A	10/15/07	34	J1901161	T16	10/15/07	62	J1901189	T43	10/15/07
7	J1901134	EJ4	10/15/07	35	J1901162	T17	10/15/07	63	J1901190	T44	10/15/07
8	J1901135	EJ5	10/15/07	36	J1901163	T18	10/15/07	64	J1901191	T45	10/15/07
9	J1901136	EJ7	10/15/07	37	J1901164	T19	10/15/07	65	J1901192	T46	10/15/07
10	J1901137	EJ7A	10/15/07	38	J1901165	T20	10/15/07				
11	J1901138	EJ9	10/15/07	39	J1901166	T21	10/15/07				
12	J1901139	HJ2	10/15/07	40	J1901167	T22	10/15/07				
13	J1901140	HJ3	10/15/07	41	J1901168	T23	10/15/07				
14	J1901141	HJ5	10/15/07	42	J1901169	T24	10/15/07				
15	J1901142	HJ7	10/15/07	43	J1901170	T25	10/15/07				
16	J1901143	HJ9	10/15/07	44	J1901171	T26	10/15/07				
17	J1901144	T01	10/15/07	45	J1901172	T27	10/15/07				
18	J1901145	T01G	10/15/07	46	J1901173	T28	10/15/07				
19	J1901146	T02	10/15/07	47	J1901174	T29	10/15/07				
20	J1901147	T03	10/15/07	48	J1901175	T30	10/15/07				
21	J1901148	T04	10/15/07	49	J1901176	T31	10/15/07				
22	J1901149	T05	10/15/07	50	J1901177	T32	10/15/07				
23	J1901150	T06	10/15/07	51	J1901178	T33	10/15/07				
24	J1901151	T07	10/15/07	52	J1901179	T34	10/15/07				
25	J1901152	T08	10/15/07	53	J1901180	T34G	10/15/07				
26	J1901153	T09	10/15/07	54	J1901181	T35	10/15/07				
27	J1901154	T10	10/15/07	55	J1901182	T36	10/15/07				
28	J1901155	T11	10/15/07	56	J1901183	T37	10/15/07				

Builders FirstSource

Project Information for: L256809

Lot : 2
Subdivision: ROSE CREEK
County: COLUMBIA
Truss Count: 65
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

October 15,2007

Truss Design Load Information:

Gravity:
Roof (psf): 42.0
Floor (psf): 55.0

Wind:
Wind Standard: ASCE 7-02
Wind Speed (mph): 110
Wind Exposure: B

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:
Aaron D. Simque Florida Registered Building Contractor License No. RB29003130
Address: Aarom Simque Homes, Inc. Route 9 Box 785-33 Lake City, FL 32024

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date
1	J1901128	CJ1	10/15/07	29	J1901156	T12	10/15/07	57	J1901184	T38	10/15/07
2	J1901129	CJ3	10/15/07	30	J1901157	T13	10/15/07	58	J1901185	T39	10/15/07
3	J1901130	CJ5	10/15/07	31	J1901158	T13G	10/15/07	59	J1901186	T40	10/15/07
4	J1901131	EJ1	10/15/07	32	J1901159	T14	10/15/07	60	J1901187	T41	10/15/07
5	J1901132	EJ2	10/15/07	33	J1901160	T15	10/15/07	61	J1901188	T42	10/15/07
6	J1901133	EJ2A	10/15/07	34	J1901161	T16	10/15/07	62	J1901189	T43	10/15/07
7	J1901134	EJ4	10/15/07	35	J1901162	T17	10/15/07	63	J1901190	T44	10/15/07
8	J1901135	EJ5	10/15/07	36	J1901163	T18	10/15/07	64	J1901191	T45	10/15/07
9	J1901136	EJ7	10/15/07	37	J1901164	T19	10/15/07	65	J1901192	T46	10/15/07
10	J1901137	EJ7A	10/15/07	38	J1901165	T20	10/15/07				
11	J1901138	EJ9	10/15/07	39	J1901166	T21	10/15/07				
12	J1901139	HJ2	10/15/07	40	J1901167	T22	10/15/07				
13	J1901140	HJ3	10/15/07	41	J1901168	T23	10/15/07				
14	J1901141	HJ5	10/15/07	42	J1901169	T24	10/15/07				
15	J1901142	HJ7	10/15/07	43	J1901170	T25	10/15/07				
16	J1901143	HJ9	10/15/07	44	J1901171	T26	10/15/07				
17	J1901144	T01	10/15/07	45	J1901172	T27	10/15/07				
18	J1901145	T01G	10/15/07	46	J1901173	T28	10/15/07				
19	J1901146	T02	10/15/07	47	J1901174	T29	10/15/07				
20	J1901147	T03	10/15/07	48	J1901175	T30	10/15/07				
21	J1901148	T04	10/15/07	49	J1901176	T31	10/15/07				
22	J1901149	T05	10/15/07	50	J1901177	T32	10/15/07				
23	J1901150	T06	10/15/07	51	J1901178	T33	10/15/07				
24	J1901151	T07	10/15/07	52	J1901179	T34	10/15/07				
25	J1901152	T08	10/15/07	53	J1901180	T34G	10/15/07				
26	J1901153	T09	10/15/07	54	J1901181	T35	10/15/07				
27	J1901154	T10	10/15/07	55	J1901182	T36	10/15/07				
28	J1901155	T11	10/15/07	56	J1901183	T37	10/15/07				

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901128
L256809	CJ1	JACK	18	1	Job Reference (optional)

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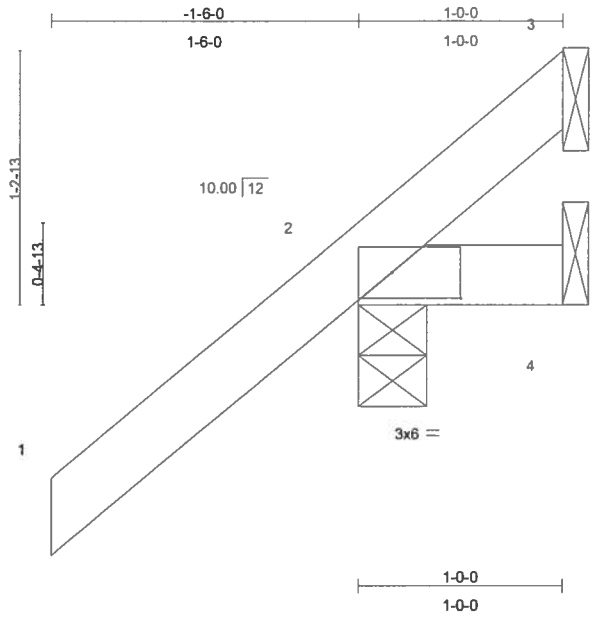

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=180/0-4-0, 4=5/Mechanical, 3=-41/Mechanical
Max Horz 2=117(load case 6)
Max Uplift 2=-211(load case 6), 4=-11(load case 4), 3=-41(load case 1)
Max Grav 2=180(load case 1), 4=14(load case 2), 3=80(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-63/63
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.17

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901128
L256809	CJ1	JACK	18	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2, 11 lb uplift at joint 4 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Key Blvd
Boynton Beach, FL 33435

October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901129
L256809	CJ3	JACK	14	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:39:40 2007 Page 1

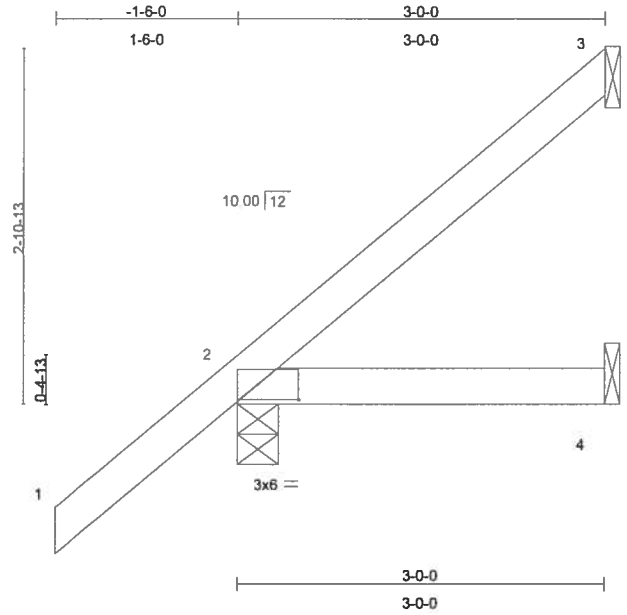

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 3=48/Mechanical, 2=206/0-4-0, 4=14/Mechanical
Max Horz 2=192(load case 6)
Max Uplift 3=-60(load case 6), 2=-164(load case 6), 4=-33(load case 4)
Max Grav 3=48(load case 1), 2=206(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-68/22
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.17

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901129
L256809	CJ3	JACK	14	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3, 164 lb uplift at joint 2 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901130
L256809	CJ5	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:39:40 2007 Page 1

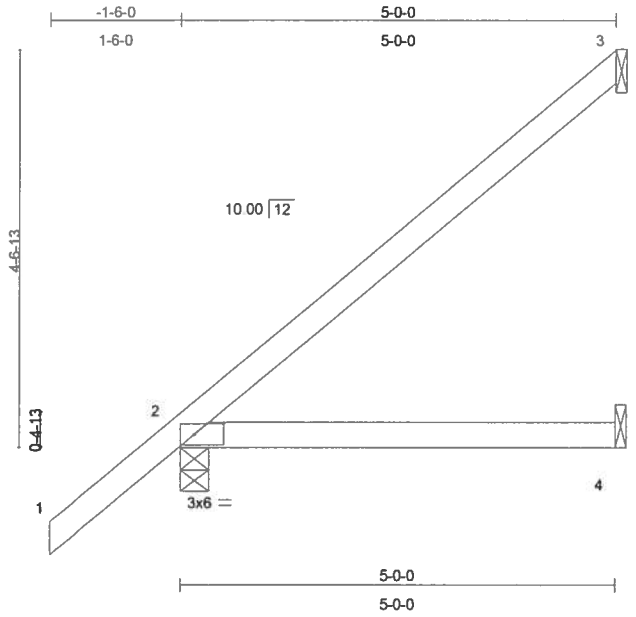

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	0.09	2-4	>671	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.05	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=113/Mechanical, 2=258/0-4-0, 4=24/Mechanical
Max Horz 2=269(load case 6)
Max Uplift 3=-149(load case 6), 2=-171(load case 6), 4=-56(load case 4)
Max Grav 3=113(load case 1), 2=258(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-135/58
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.21

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Key Blvd
Boynton Beach, FL 33435

October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901130
L256809	CJ5	JACK	6	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 3, 171 lb uplift at joint 2 and 56 lb uplift at joint 4.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901131
L256809	EJ1	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:39:41 2007 Page 1

Scale = 1:13.3

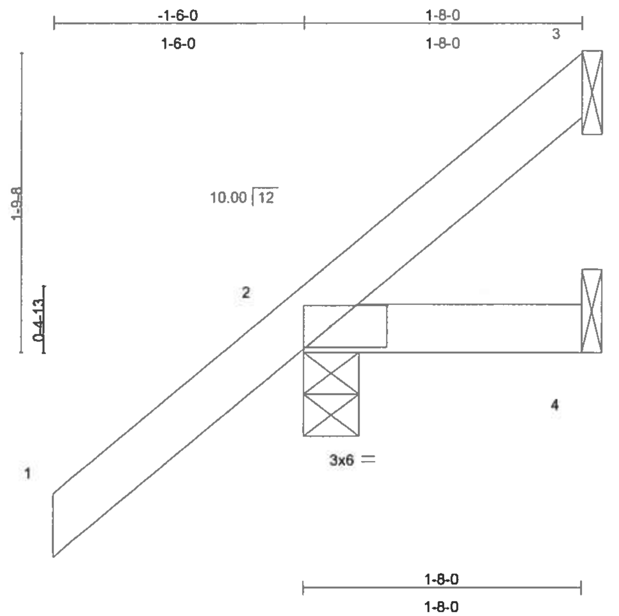

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	2	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 9 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=174/0-4-0, 4=8/Mechanical, 3=5/Mechanical
Max Horz 2=143(load case 6)
Max Uplift 2=-151(load case 6), 3=-16(load case 7)
Max Grav 2=174(load case 1), 4=24(load case 2), 3=27(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-55/17
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901131
L256809	EJ1	MONO TRUSS	2	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 16 lb uplift at joint 3.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34869
1108 Coastal Bay Blvd
Boynton Beach, FL 33435

October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901132
L256809	EJ2	MONO TRUSS	5	1	Job Reference (optional)

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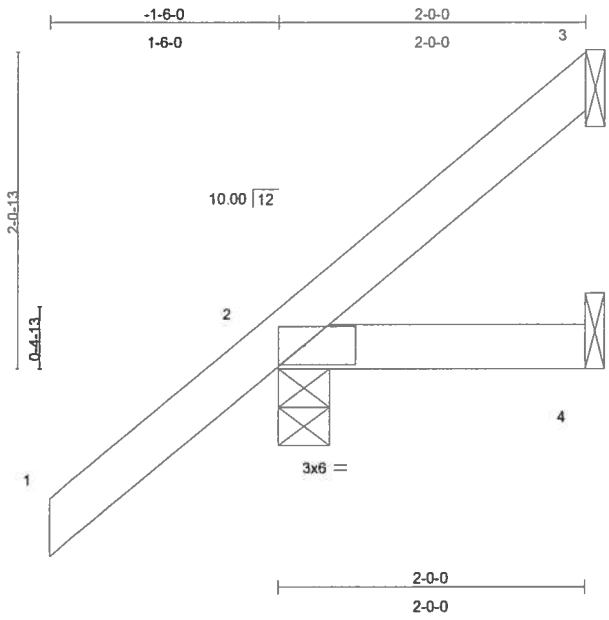

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.00	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 2=178/0-4-0, 4=10/Mechanical, 3=20/Mechanical
Max Horz 2=156(load case 6)
Max Uplift 2=-139(load case 6), 3=-28(load case 7)
Max Grav 2=178(load case 1), 4=29(load case 2), 3=27(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-56/17
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901132
L256809	EJ2	MONO TRUSS	5	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901133
L256809	EJ2A	JACK	1	1	Job Reference (optional)

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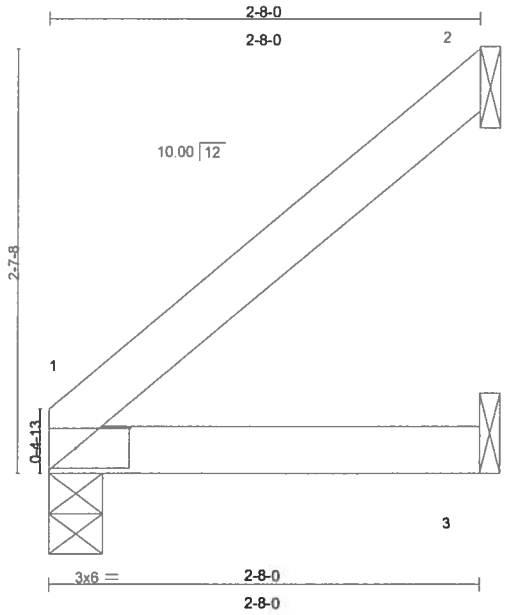

Plate Offsets (X,Y): [1:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	-0.00	1-3	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	1-3	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 9 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=145/0-4-0, 2=66/Mechanical, 3=80/Mechanical
Max Horz 1=103(load case 5)
Max Uplift 1=-26(load case 5), 2=-93(load case 5), 3=-27(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-75/36
BOT CHORD 1-3=0/0

JOINT STRESS INDEX
1 = 0.05

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 93 lb uplift at joint 2 and 27 lb uplift at joint 3.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901133
L256809	EJ2A	JACK	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 1-3=-65(F=-55)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901134
L256809	EJ4	SPECIAL	3	1	Job Reference (optional)

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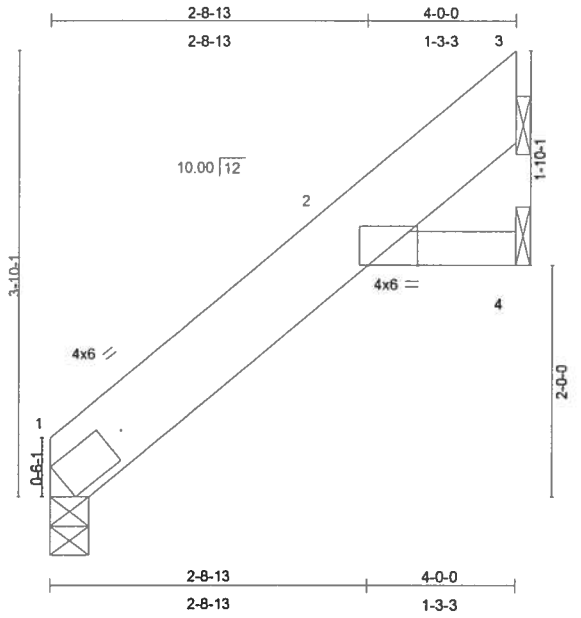

Plate Offsets (X,Y): [2:0-5-2,Edge], [2:2-6-10,0-2-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.05	Vert(LL)	0.01	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.01	2	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2

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

REACTIONS (lb/size) 1=131/0-4-0, 4=6/Mechanical, 3=123/Mechanical
Max Horz 1=152(load case 6)
Max Uplift 3=-128(load case 6)
Max Grav 1=131(load case 1), 4=19(load case 2), 3=123(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-132/18, 2-3=-111/83
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.01 and 2 = 0.00

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901134
L256809	EJ4	SPECIAL	3	1	Job Reference (optional)

NOTES

4) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 3.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901135
L256809	EJ5	MONO TRUSS	5	1	Job Reference (optional)

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Scale = 1:25.5

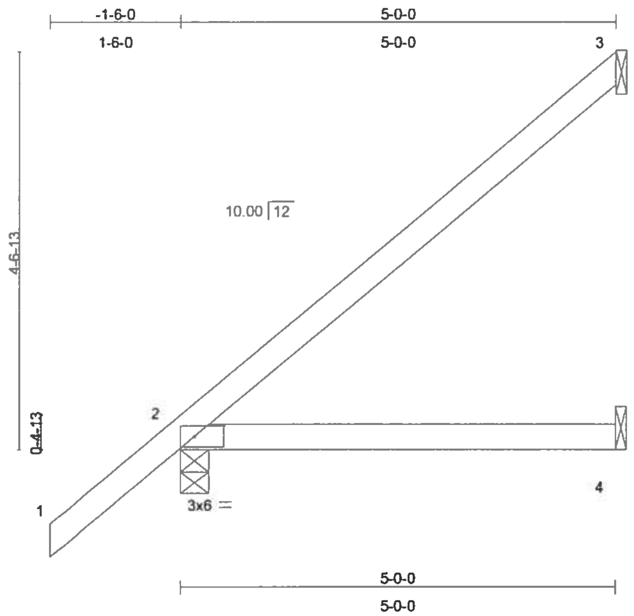

Plate Offsets (X,Y): [2:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=113/Mechanical, 2=258/0-4-0, 4=24/Mechanical
Max Horz 2=269(load case 6)
Max Uplift 3=-149(load case 6), 2=-111(load case 6)
Max Grav 3=113(load case 1), 2=258(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-135/58
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.21

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901135
L256809	EJ5	MONO TRUSS	5	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 3 and 111 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901136
L256809	EJ7	MONO TRUSS	1	1	Job Reference (optional)

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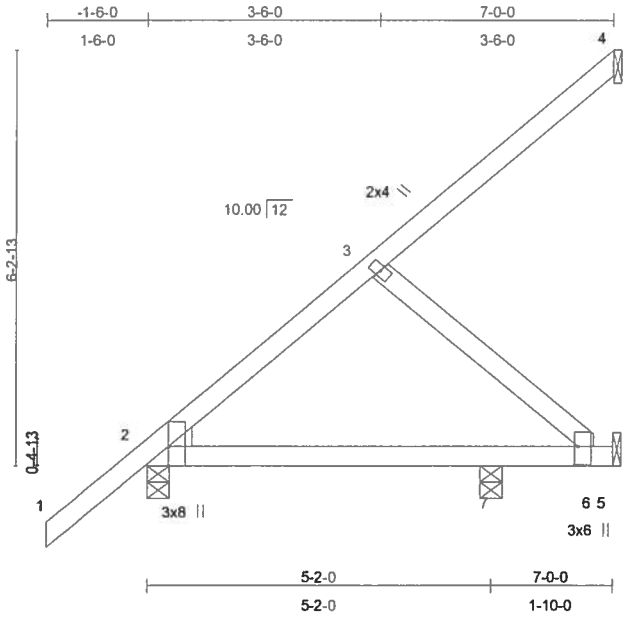

Plate Offsets (X,Y): [2:0-3-8,Edge], [6:0-3-6,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	0.03	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.02	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP 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 (lb/size) 4=78/Mechanical, 2=304/0-4-0, 5=88/Mechanical, 7=54/0-4-0
Max Horz 2=248(load case 6)
Max Uplift 4=-66(load case 6), 2=-125(load case 6), 5=-60(load case 6), 7=-75(load case 5)
Max Grav 4=78(load case 1), 2=304(load case 1), 5=88(load case 1), 7=142(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-211/0, 3-4=-86/37
BOT CHORD 2-7=-183/117, 6-7=-183/117, 5-6=0/0
WEBS 3-6=-155/243

JOINT STRESS INDEX
2 = 0.42, 2 = 0.00, 3 = 0.13 and 6 = 0.09

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901136
L256809	EJ7	MONO TRUSS	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4, 125 lb uplift at joint 2, 60 lb uplift at joint 5 and 75 lb uplift at joint 7.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901137
L256809	EJ7A	MONO TRUSS	6	1	Job Reference (optional)

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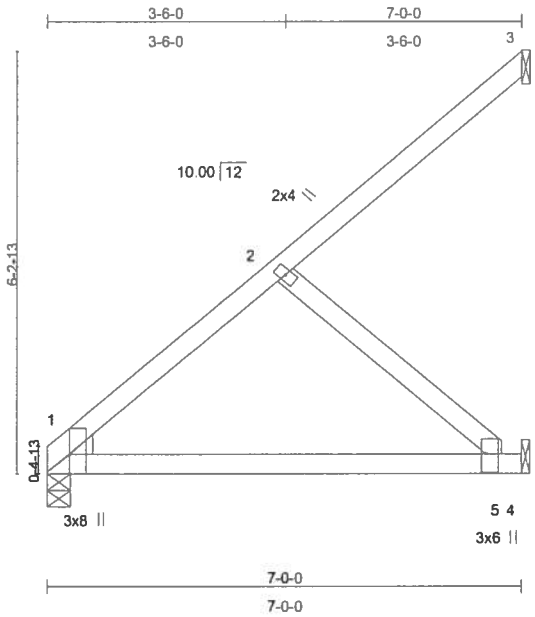

Plate Offsets (X,Y): [1:0-3-8,Edge], [5:0-3-6,0-0-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.07	1-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.13	1-5	>615	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 31 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP 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 (lb/size) 3=74/Mechanical, 4=143/Mechanical, 1=217/0-4-0
Max Horz 1=188(load case 6)
Max Uplift 3=-65(load case 6), 4=-76(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-206/0, 2-3=-86/35
BOT CHORD 1-5=-183/135, 4-5=0/0
WEBS 2-5=-179/242

JOINT STRESS INDEX
1 = 0.60, 1 = 0.00, 2 = 0.13 and 5 = 0.09

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901137
L256809	EJ7A	MONO TRUSS	6	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3 and 76 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901138
L256809	EJ9	MONO TRUSS	1	1	Job Reference (optional)

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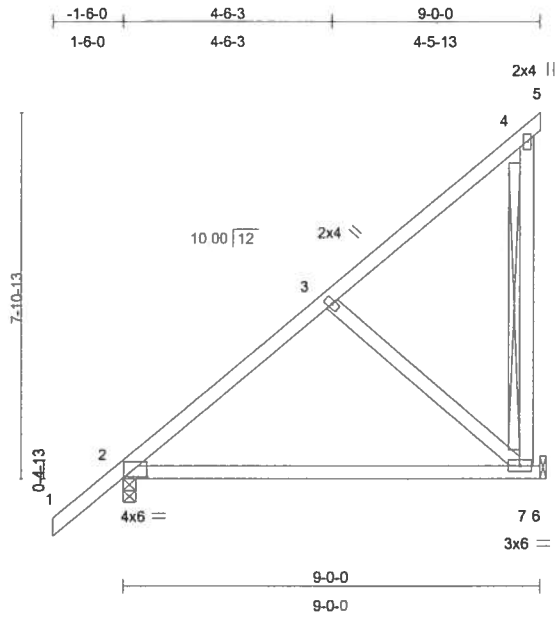

Plate Offsets (X,Y): [2:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.13	2-7	>797	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.22	2-7	>459	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.11	Horz(TL)	-0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 7=273/Mechanical, 2=371/0-3-8
Max Horz 2=301(load case 6)
Max Uplift 7=-174(load case 6), 2=-50(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-280/0, 3-4=-106/50, 4-5=-3/0, 4-7=-96/132
BOT CHORD 2-7=-196/162, 6-7=0/0
WEBS 3-7=-198/255

JOINT STRESS INDEX
2 = 0.68, 3 = 0.14, 4 = 0.46 and 7 = 0.53

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901138
L256809	EJ9	MONO TRUSS	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 7 and 50 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901139
L256809	HJ2	JACK	1	1	Job Reference (optional)

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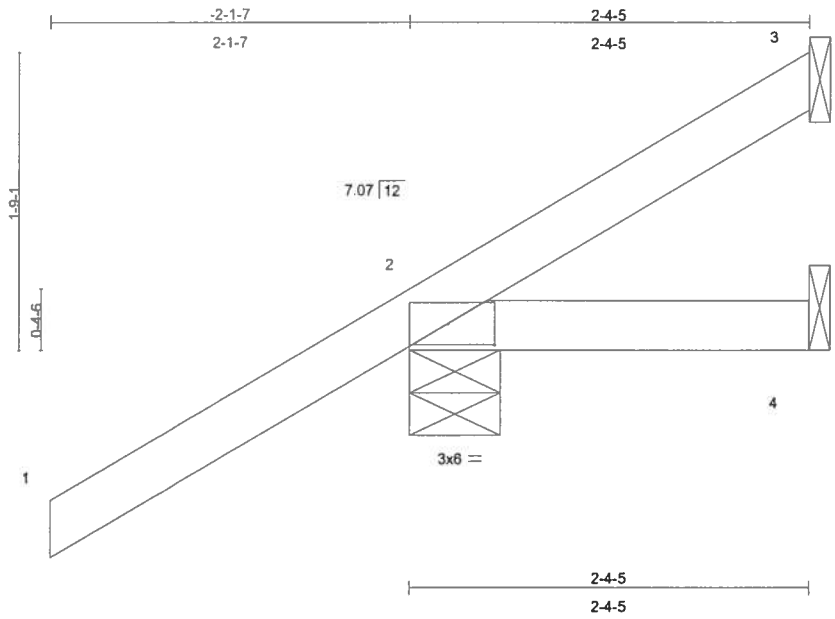

Plate Offsets (X,Y): [2:0-3-5,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.00	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=-46/Mechanical, 2=224/0-6-6, 4=5/Mechanical
Max Horz 2=91(load case 5)
Max Uplift 3=-46(load case 1), 2=-226(load case 5)
Max Grav 3=81(load case 5), 2=224(load case 1), 4=25(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-53/45
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3 and 226 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901139
L256809	HJ2	JACK	1	1	Job Reference (optional)

NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-5(F=25, B=25)-to-3=-41(F=6, B=6), 2=0(F=5, B=5)-to-4=-8(F=1, B=1)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901140
L256809	HJ3	JACK	1	1	Job Reference (optional)

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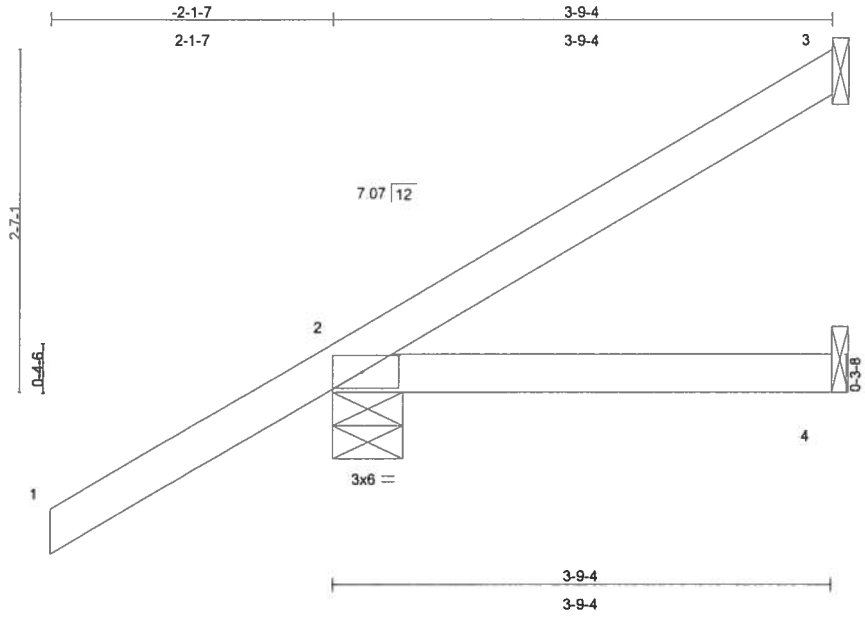

Plate Offsets (X,Y): [2:0-3-5,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=16/Mechanical, 2=212/0-6-7, 4=11/Mechanical
Max Horz 2=110(load case 5)
Max Uplift 2=-177(load case 5)
Max Grav 3=85(load case 3), 2=212(load case 1), 4=45(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-43/45
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901140
L256809	HJ3	JACK	1	1	Job Reference (optional)

NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-3=-51(F=2, B=2), 2=0(F=5, B=5)-to-4=-9(F=0, B=0)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901141
L256809	HJ5	SPECIAL	2	1	Job Reference (optional)

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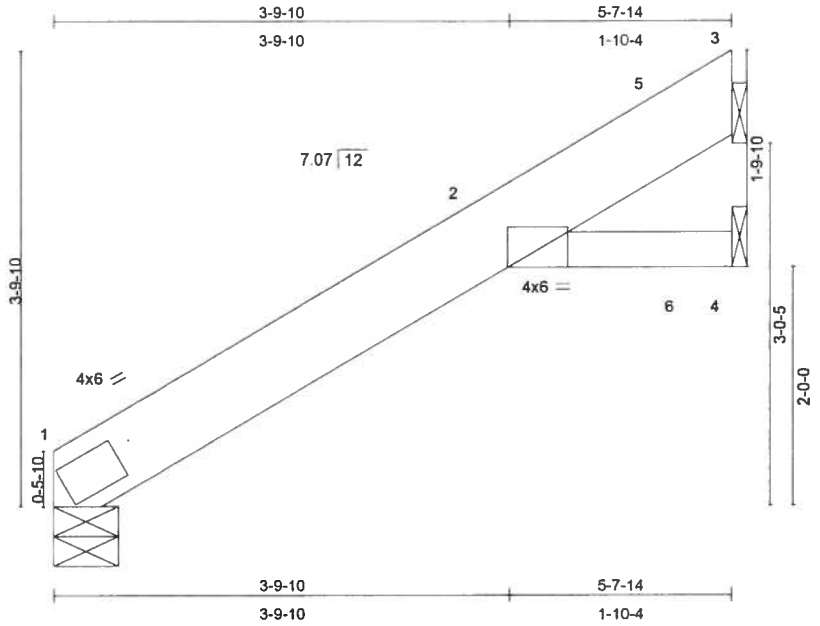

Plate Offsets (X,Y): [2:0-0-0,0-0-0], [2:3-5-10,0-4-1]

LOADING (psf)		SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plates Increase 1.25	TC 0.06	Vert(LL)	-0.01	2	>999	360	MT20	244/190
TCDL 7.0		Lumber Increase 1.25	BC 0.03	Vert(TL)	-0.02	1-2	>999	240		
BCLL 10.0	*	Rep Stress Incr NO	WB 0.00	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0		Code FBC2004/TPI2002	(Matrix)						Weight: 24 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=108/0-6-7, 4=11/Mechanical, 3=165/Mechanical
Max Horz 1=103(load case 5)
Max Uplift 3=-129(load case 5)
Max Grav 1=126(load case 3), 4=29(load case 2), 3=165(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-106/12, 2-5=-84/33, 3-5=-76/89
BOT CHORD 2-6=0/0, 4-6=0/0

JOINT STRESS INDEX
2 = 0.01 and 2 = 0.00

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 3.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901141
L256809	HJ5	SPECIAL	2	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 3-5=-54, 4-6=-10

Trapezoidal Loads (plf)

Vert: 1=-11(F=27, B=27)-to-2=-66(F=-0, B=-0), 2=-55(F=-0, B=-0)-to-5=-76(F=-11, B=-11), 2=-10(F=-0, B=-0)-to-6=-14(F=-2, B=-2)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901142
L256809	HJ7	JACK	4	1	Job Reference (optional)

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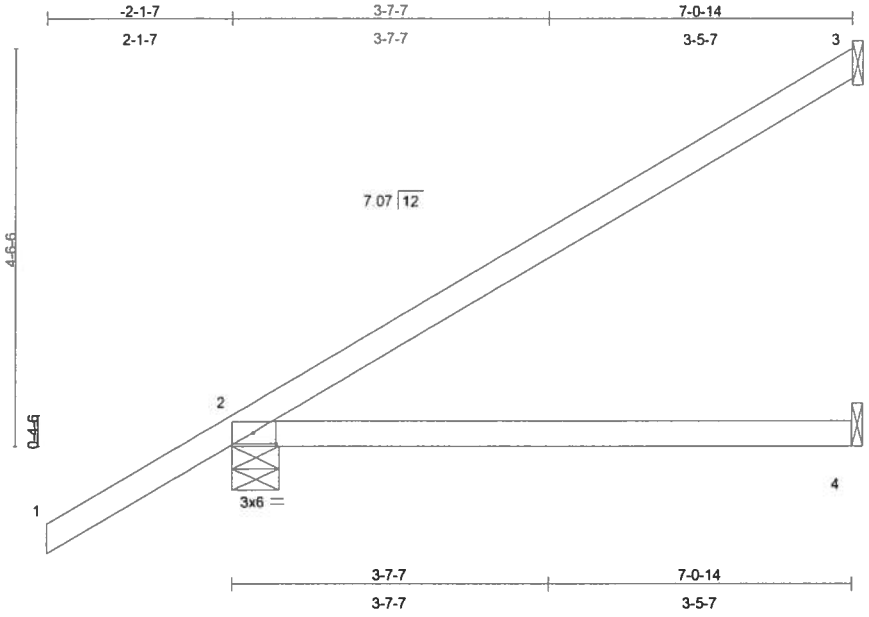

Plate Offsets (X,Y): [2:0-3-5,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.08	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.15	2-4	>555	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=190/Mechanical, 2=287/0-6-6, 4=45/Mechanical
Max Horz 2=248(load case 5)
Max Uplift 3=-205(load case 5), 2=-135(load case 5)
Max Grav 3=190(load case 1), 2=287(load case 1), 4=99(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-135/68
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.46

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 3 and 135 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901142
L256809	HJ7	JACK	4	1	Job Reference (optional)

NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 2=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901143
L256809	HJ9	MONO TRUSS	3	1	Job Reference (optional)

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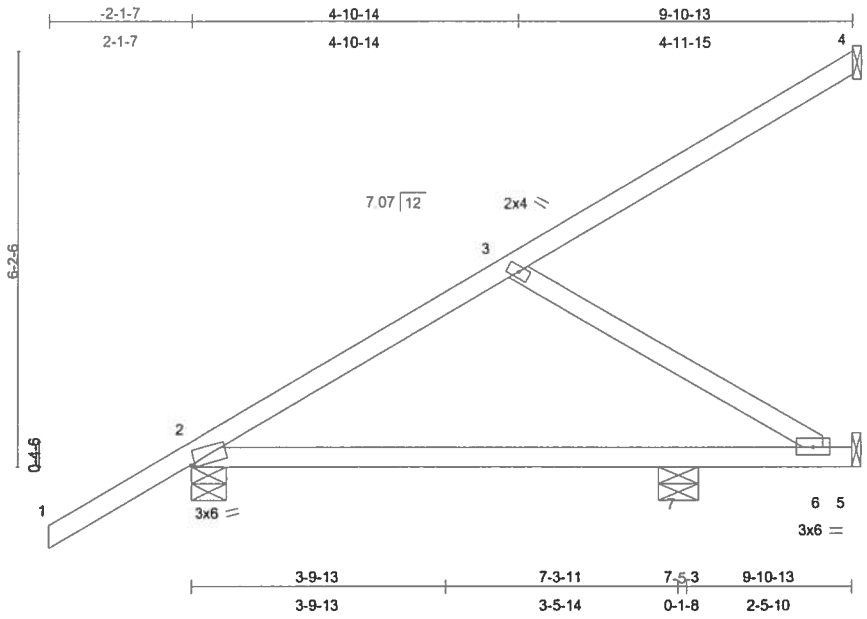

Plate Offsets (X,Y): [2:0-0-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.05	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.07	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.20	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.

REACTIONS (lb/size) 4=244/Mechanical, 2=384/0-6-6, 5=180/Mechanical, 7=96/0-7-3
Max Horz 2=440(load case 5)
Max Uplift 4=-300(load case 5), 2=-214(load case 5), 5=-157(load case 5), 7=-83(load case 6)
Max Grav 4=244(load case 1), 2=384(load case 1), 5=180(load case 1), 7=222(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-383/4, 3-4=-192/90
BOT CHORD 2-7=-362/312, 6-7=-362/312, 5-6=0/0
WEBS 3-6=-364/423

JOINT STRESS INDEX
2 = 0.82, 3 = 0.22 and 6 = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901143
L256809	HJ9	MONO TRUSS	3	1	Job Reference (optional)

NOTES

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint 4, 214 lb uplift at joint 2, 157 lb uplift at joint 5 and 83 lb uplift at joint 7.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR J1901144
L256809	T01	COMMON	1	2	Job Reference (optional)

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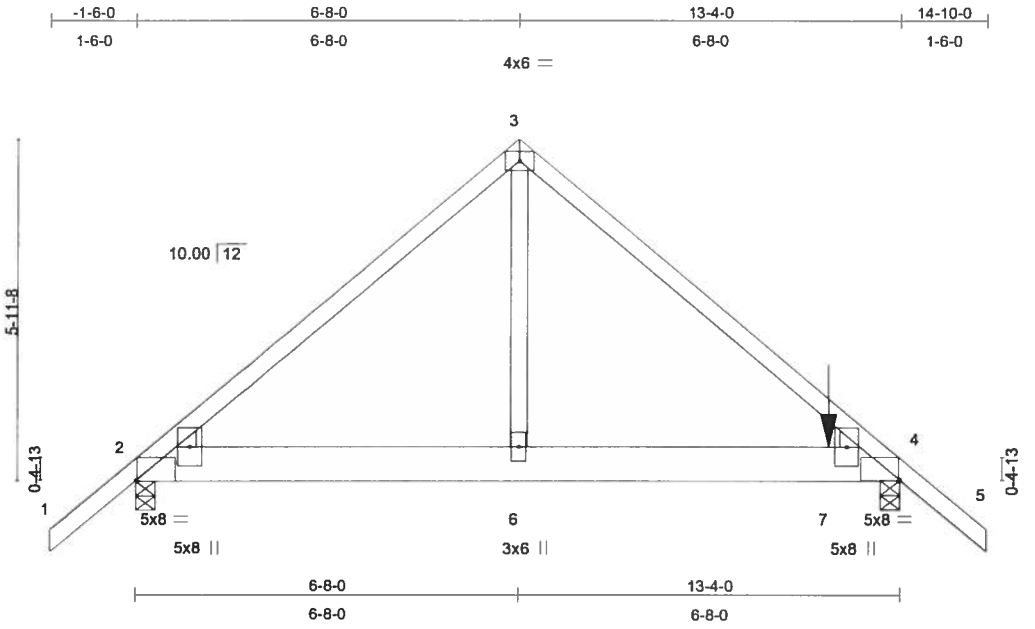

Plate Offsets (X,Y): [2:0-0-4,Edge], [4:0-0-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.00	TC	0.21	Vert(LL)	-0.03	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.00	BC	0.40	Vert(TL)	-0.06	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.13	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 164 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP 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 (lb/size) 2=701/0-4-0, 4=2651/0-4-0
Max Horz 2=-149(load case 3)
Max Uplift 2=-213(load case 5), 4=-752(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-914/228, 3-4=-901/224, 4-5=0/56
BOT CHORD 2-6=-92/616, 6-7=-92/616, 4-7=-92/616
WEBS 3-6=-127/652

JOINT STRESS INDEX
2 = 0.36, 2 = 0.10, 3 = 0.28, 4 = 0.36, 4 = 0.10 and 6 = 0.13

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-3-0 oc.
Webs connected as follows: 2 X 4 - 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.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR
					J1901144
L256809	T01	COMMON	1	2	Job Reference (optional)

NOTES

4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2 and 752 lb uplift at joint 4.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 2-4=-10
   Concentrated Loads (lb)
   Vert: 7=-2340(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901145
L256809	T01G	GABLE	1	1	Job Reference (optional)

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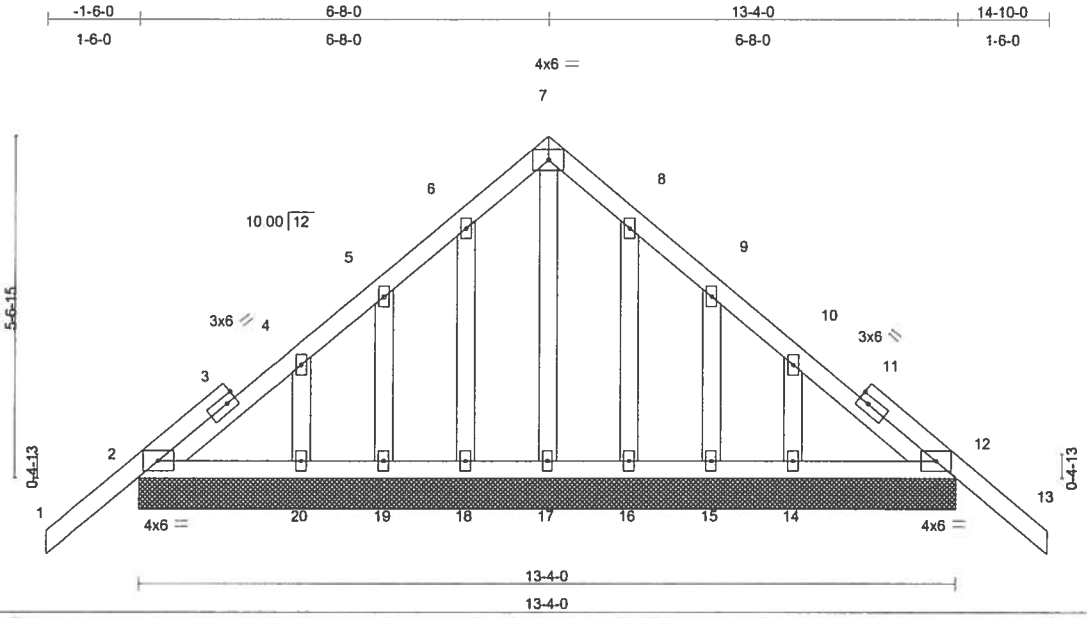

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.01	13	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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 (lb/size) 2=220/13-4-0, 12=220/13-4-0, 17=84/13-4-0, 18=100/13-4-0, 19=87/13-4-0, 20=140/13-4-0, 16=100/13-4-0, 15=87/13-4-0, 14=140/13-4-0
Max Horz 2=-188(load case 4)
Max Uplift 2=-119(load case 6), 12=-140(load case 7), 18=-72(load case 6), 19=-108(load case 6), 20=-76(load case 7), 16=-66(load case 7), 15=-108(load case 7), 14=-75(load case 7)
Max Grav 2=220(load case 1), 12=220(load case 1), 17=120(load case 7), 18=103(load case 10), 19=87(load case 10), 20=140(load case 1), 16=103(load case 11), 15=87(load case 11), 14=140(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-138/106, 3-4=-131/116, 4-5=-87/102, 5-6=-42/116, 6-7=-39/152, 7-8=-39/152, 8-9=-38/103, 9-10=-44/40, 10-11=-74/58, 11-12=-80/49, 12-13=0/60
BOT CHORD 2-20=-20/180, 19-20=-20/180, 18-19=-20/180, 17-18=-20/180, 16-17=-20/180, 15-16=-20/180, 14-15=-20/180, 12-14=-20/180
WEBS 7-17=-115/0, 6-18=-88/82, 5-19=-77/107, 4-20=-119/96, 8-16=-88/77, 9-15=-77/108, 10-14=-119/100

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JOINT STRESS INDEX
2 = 0.64, 3 = 0.00, 3 = 0.16, 4 = 0.07, 5 = 0.05, 6 = 0.05, 7 = 0.08, 8 = 0.05, 9 = 0.05, 10 = 0.07, 11 = 0.00, 11 = 0.16, 12 = 0.64, 14 = 0.06, 15 = 0.06, 16 = 0.05, 17 = 0.03, 18 = 0.05, 19 = 0.06 and 20 = 0.06

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901145
L256809	T01G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2, 140 lb uplift at joint 12, 72 lb uplift at joint 18, 108 lb uplift at joint 19, 76 lb uplift at joint 20, 66 lb uplift at joint 16, 108 lb uplift at joint 15 and 75 lb uplift at joint 14.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) Gable truss supports 12" max. rake gable overhang.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-64(F=-10), 7-13=-64(F=-10), 2-12=-10

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901146
L256809	T02	COMMON	3	1	Job Reference (optional)

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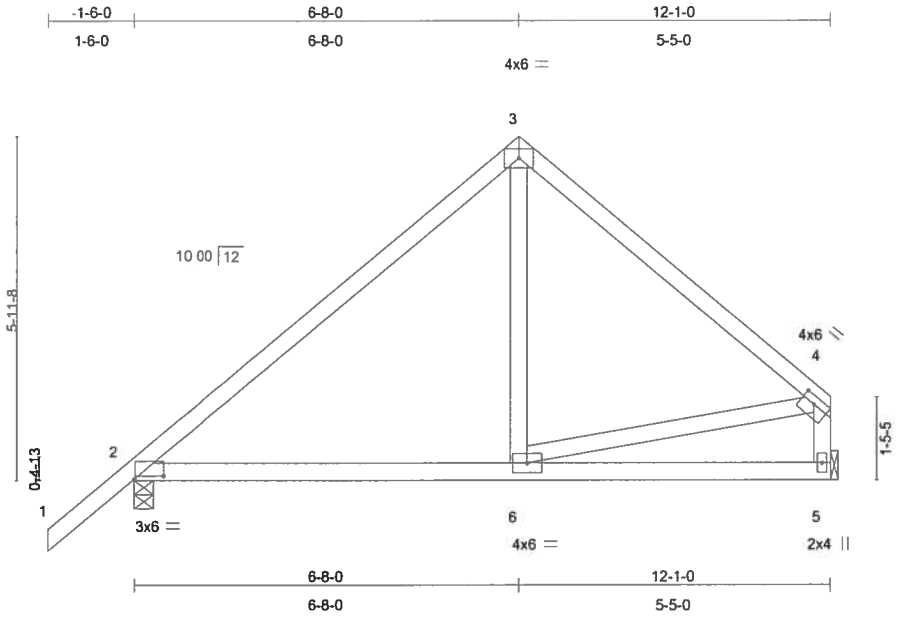

Plate Offsets (X,Y): [2:0-6-3,0-0-10], [4:0-2-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.04	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.08	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 62 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.

REACTIONS (lb/size) 2=473/0-4-0, 5=370/Mechanical
Max Horz 2=177(load case 5)
Max Uplift 2=-151(load case 6), 5=-68(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-415/179, 3-4=-380/195, 4-5=-351/193
BOT CHORD 2-6=-50/232, 5-6=-85/116
WEBS 3-6=0/176, 4-6=-118/187

JOINT STRESS INDEX
2 = 0.68, 3 = 0.67, 4 = 0.73, 5 = 0.41 and 6 = 0.08

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901146
L256809	T02	COMMON	3	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 68 lb uplift at joint 5.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901147
L256809	T03	MONO HIP	1	1	Job Reference (optional)

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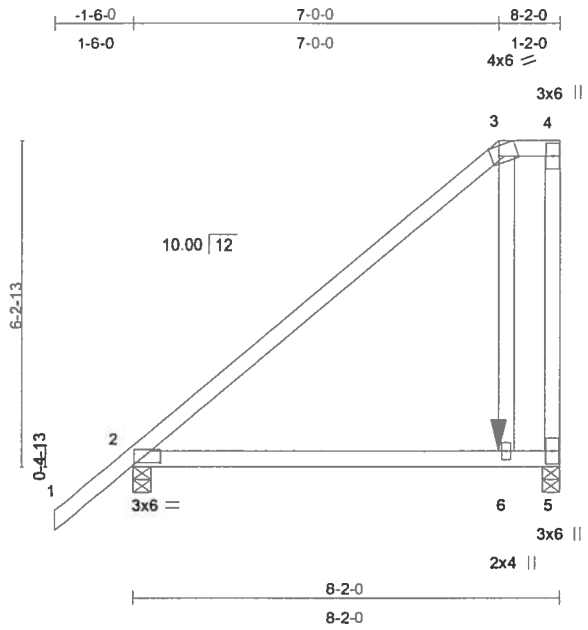

Scale = 1:42.6

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	0.15	2-6	>642	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.23	2-6	>408	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.08	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 47 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
3-6 2 X 4 SYP 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 10-0-0 oc bracing.

REACTIONS (lb/size) 5=676/0-4-0, 2=401/0-4-0
Max Horz 2=252(load case 5)
Max Uplift 5=-458(load case 5), 2=-117(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-250/46, 3-4=-94/60, 4-5=-214/164
BOT CHORD 2-6=-65/96, 5-6=-63/96
WEBS 3-6=-125/120

JOINT STRESS INDEX
2 = 0.52, 3 = 0.41, 4 = 0.77, 5 = 0.87 and 6 = 0.09

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 458 lb uplift at joint 5 and 117 lb uplift at joint 2.
6) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901147
L256809	T03	MONO HIP	1	1	Job Reference (optional)

NOTES

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-117(F=-63), 2-6=-10, 5-6=-22(F=-12)
   Concentrated Loads (lb)
   Vert: 6=-411(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR J1901148
L256809	T04	SPECIAL	1	2	Job Reference (optional)

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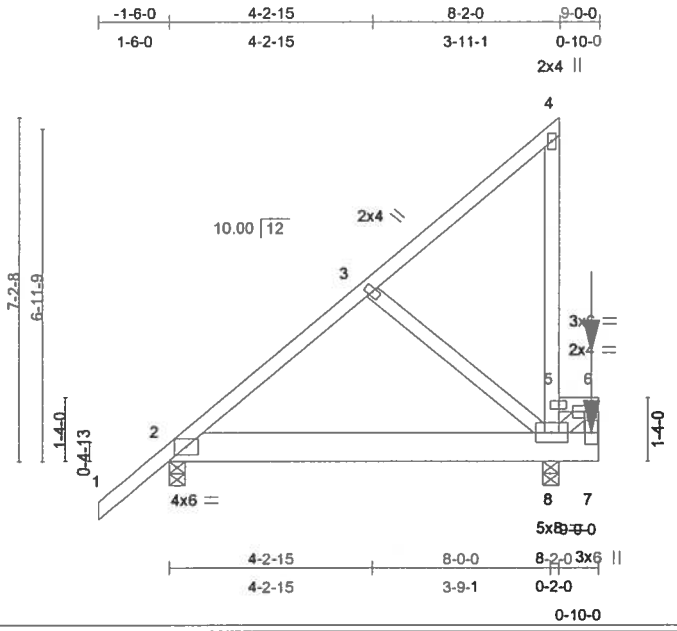

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.00	TC	0.10	Vert(LL)	-0.01	2-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.00	BC	0.07	Vert(TL)	-0.01	2-8	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 132 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.

REACTIONS (lb/size) 8=4383/0-4-0, 2=319/0-4-0
Max Horz 2=463(load case 5)
Max Uplift 8=-1367(load case 5), 2=-7(load case 3)
Max Grav 8=4383(load case 1), 2=321(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-245/31, 3-4=-172/58, 5-8=-118/57, 4-5=-89/132, 5-6=-68/95, 6-7=-99/155
BOT CHORD 2-8=-222/135, 7-8=-28/22
WEBS 3-8=-176/165, 6-8=-97/68

JOINT STRESS INDEX
2 = 0.08, 3 = 0.05, 4 = 0.22, 5 = 0.24, 6 = 0.09, 7 = 0.03 and 8 = 0.03

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 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 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR J1901148
L256809	T04	SPECIAL	1	2	Job Reference (optional)

NOTES

5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1367 lb uplift at joint 8 and 7 lb uplift at joint 2.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-4=-54, 5-6=-54, 2-7=-10
   Concentrated Loads (lb)
   Vert: 8=-3783(B) 7=-273(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901149
L256809	T05	MONO TRUSS	2	1	Job Reference (optional)

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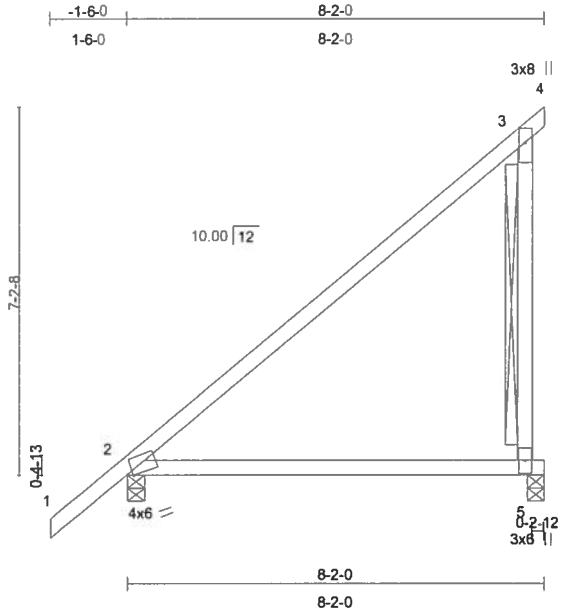

Plate Offsets (X,Y): [2:0-1-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.09	2-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.17	2-5	>533	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 41 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=255/0-4-0, 2=343/0-4-0
Max Horz 2=278(load case 6)
Max Uplift 5=-159(load case 6), 2=-52(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-196/73, 3-4=-13/0, 3-5=-186/276
BOT CHORD 2-5=-49/47

JOINT STRESS INDEX
2 = 0.71, 3 = 0.67 and 5 = 0.37

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901149
L256809	T05	MONO TRUSS	2	1	Job Reference (optional)

NOTES

2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 5 and 52 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901150
L256809	T06	MONO TRUSS	1	1	Job Reference (optional)

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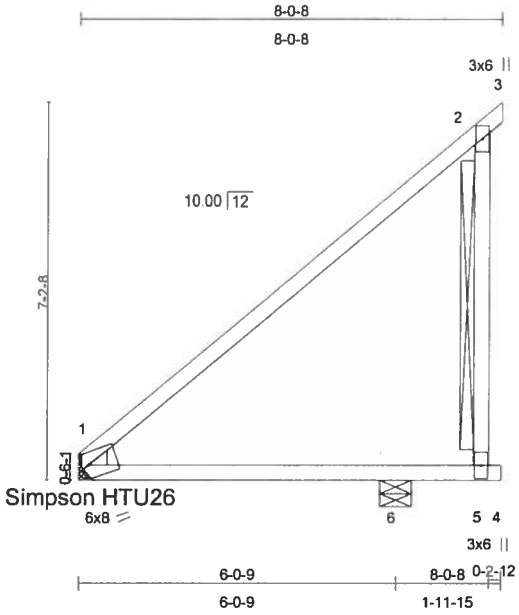

Scale = 1:42.4

Plate Offsets (X,Y): [1:Edge,0-2-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.06	1-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.06	1-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 2-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=167/Mechanical, 6=338/0-7-3
Max Horz 1=218(load case 6)
Max Uplift 6=-216(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-235/109, 2-3=-13/0, 2-5=-199/298
BOT CHORD 1-6=-9/11, 5-6=-9/11, 4-5=0/0

JOINT STRESS INDEX
1 = 0.88, 1 = 0.00, 2 = 0.56 and 5 = 0.40

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901150
L256809	T06	MONO TRUSS	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 6.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
L256809	T07	SPECIAL	1	1	Job Reference (optional)

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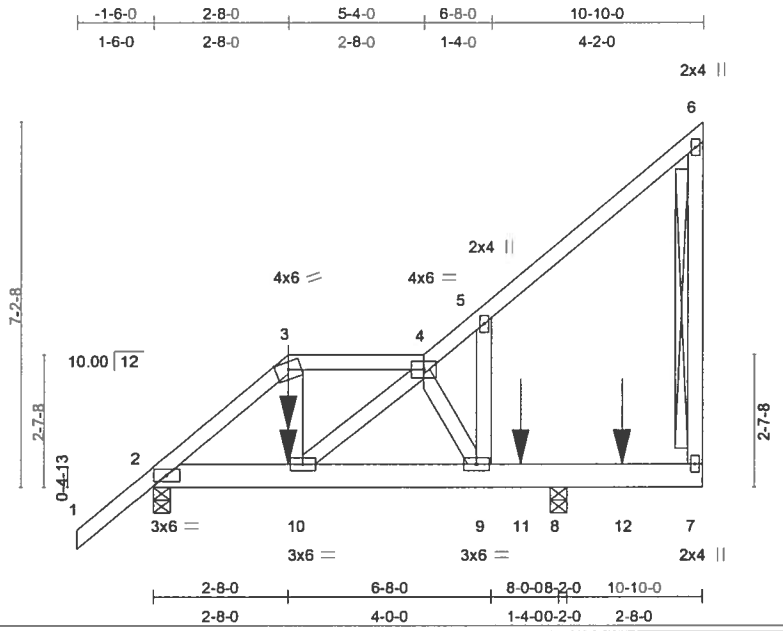

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.01	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.01	9-10	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.08	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=399/0-4-0, 8=1210/0-4-0
Max Horz 2=278(load case 5)
Max Uplift 2=-111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/55, 2-3=-370/128, 3-4=-247/95, 4-5=-180/104, 5-6=-81/48, 6-7=-86/86
BOT CHORD 2-10=-166/242, 9-10=-78/62, 9-11=-10/0, 8-11=-10/0, 8-12=-10/0, 7-12=-10/0
WEBS 3-10=-61/132, 5-9=-292/162, 4-10=-184/246, 4-9=-154/148

JOINT STRESS INDEX
2 = 0.38, 3 = 0.11, 4 = 0.19, 5 = 0.17, 6 = 0.44, 7 = 0.61, 9 = 0.10 and 10 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
2) 250.0lb AC unit load placed on the bottom chord, 8-3-0 from left end, supported at two points, 2-0-0 apart.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2.
7) Girder carries hip end with 5-6-0 right side setback, 2-8-0 left side setback, and 2-8-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-9=-10, 7-9=-110(F=-100)
   Concentrated Loads (lb)
   Vert: 10=-179(F) 11=-125 12=-125
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-14, 3-4=-14, 4-6=-14, 2-9=-30, 7-9=-50(F=-20)
   Concentrated Loads (lb)
   Vert: 10=-113(F) 11=-125 12=-125
3) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-3=-10, 3-4=29, 4-6=-10, 2-9=-6, 7-9=-26(F=-20)
   Horz: 1-2=-20, 2-3=1, 4-6=1
   Concentrated Loads (lb)
   Vert: 10=79(F) 11=-125 12=-125
4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=7, 2-3=14, 3-4=12, 4-6=14, 2-9=-6, 8-9=-26(F=-20), 7-8=-1(F=-20)
   Horz: 1-2=-16, 2-3=-23, 4-6=-23
   Concentrated Loads (lb)
   Vert: 10=44(F) 11=-125 12=-125
5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=42, 2-3=24, 3-4=24, 4-6=24, 2-9=-6, 7-9=-26(F=-20)
   Horz: 1-2=-51, 2-3=-32, 4-6=-32
   Concentrated Loads (lb)
   Vert: 10=66(F) 11=-125 12=-125
6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-3=12, 3-4=12, 4-6=12, 2-9=-6, 8-9=-26(F=-20), 7-8=-1(F=-20)
   Horz: 1-2=-14, 2-3=-20, 4-6=-20
   Concentrated Loads (lb)
   Vert: 10=39(F) 11=-125 12=-125
7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=42, 2-3=24, 3-4=24, 4-6=24, 2-9=-6, 7-9=-26(F=-20)
   Horz: 1-2=-51, 2-3=-32, 4-6=-32
   Concentrated Loads (lb)
   Vert: 10=66(F) 11=-125 12=-125
8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-3=12, 3-4=12, 4-6=12, 2-9=-6, 8-9=-26(F=-20), 7-8=-1(F=-20)
   Horz: 1-2=-14, 2-3=-20, 4-6=-20
   Concentrated Loads (lb)
   Vert: 10=39(F) 11=-125 12=-125

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Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901152
L256809	T08	ROOF TRUSS	1	1	Job Reference (optional)

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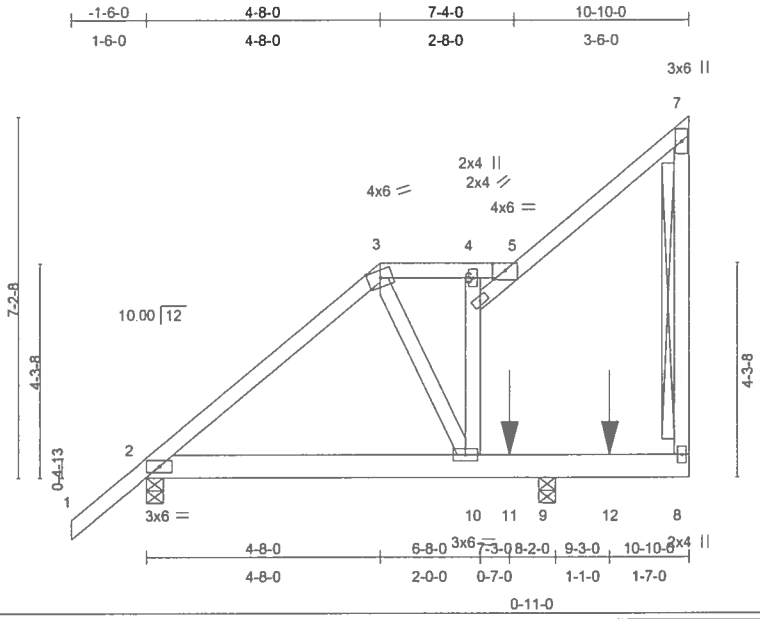

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.02	2-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.04	2-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.26	Horz(TL)	-0.00	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 71 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=281/0-4-0, 9=1149/0-4-0
Max Horz 2=278(load case 6)
Max Uplift 2=-67(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-161/38, 3-4=-142/34, 4-5=-198/130, 5-6=-123/66, 5-7=-85/45, 7-8=-75/104
BOT CHORD 2-10=-102/30, 10-11=-15/1, 9-11=-15/1, 9-12=-15/1, 8-12=-15/1
WEBS 6-10=-210/90, 4-6=-161/70, 3-10=-147/268

JOINT STRESS INDEX
2 = 0.23, 3 = 0.42, 4 = 0.08, 5 = 0.11, 6 = 0.09, 7 = 0.23, 8 = 0.81 and 10 = 0.17

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901152
L256809	T08	ROOF TRUSS	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) 250.0lb AC unit load placed on the bottom chord, 8-3-0 from left end, supported at two points, 2-0-0 apart.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-54, 3-5=-54, 5-7=-54, 2-10=-10, 8-10=-110(F=-100)
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-14, 3-5=-14, 5-7=-14, 2-10=-30, 8-10=-50(F=-20)
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
3) C-C Wind: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=61, 2-3=38, 3-5=49, 5-7=38, 2-10=-6, 9-10=-26(F=-20), 8-9=35(F=-20)
      Horz: 1-2=-69, 2-3=-47, 5-7=-47
      Drag: 3-4=-1
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
4) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=12, 2-3=-10, 3-5=29, 5-7=-10, 2-10=-6, 8-10=-26(F=-20)
      Horz: 1-2=-20, 2-3=1, 5-7=1
      Drag: 3-4=-0
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
5) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=7, 2-3=14, 3-5=12, 5-7=14, 2-10=-6, 9-10=-26(F=-20), 8-9=-1(F=-20)
      Horz: 1-2=-16, 2-3=-23, 5-7=-23
      Drag: 3-4=-0
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
6) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-2=42, 2-3=24, 3-5=24, 5-7=24, 2-10=-6, 8-10=-26(F=-20)
      Horz: 1-2=-51, 2-3=-32, 5-7=-32
      Drag: 3-4=-0
   Concentrated Loads (lb)
      Vert: 11=-125 12=-125
7) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=5, 2-3=12, 3-5=12, 5-7=12, 2-10=-6, 9-10=-26(F=-20), 8-9=-1(F=-20)

Horz: 1-2=-14, 2-3=-20, 5-7=-20

Drag: 3-4=-0

Concentrated Loads (lb)

Vert: 11=-125 12=-125

8) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=42, 2-3=24, 3-5=24, 5-7=24, 2-10=-6, 8-10=-26(F=-20)

Horz: 1-2=-51, 2-3=-32, 5-7=-32

Drag: 3-4=-0

Concentrated Loads (lb)

Vert: 11=-125 12=-125

9) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-3=12, 3-5=12, 5-7=12, 2-10=-6, 9-10=-26(F=-20), 8-9=-1(F=-20)

Horz: 1-2=-14, 2-3=-20, 5-7=-20

Drag: 3-4=-0

Concentrated Loads (lb)

Vert: 11=-125 12=-125

10) Attic Floor: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-14, 3-5=-14, 5-7=-14, 2-10=-10, 8-10=-110(F=-100)

Concentrated Loads (lb)

Vert: 11=-125 12=-125

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
L256809	T09	ROOF TRUSS	1	1	J1901153 Job Reference (optional)

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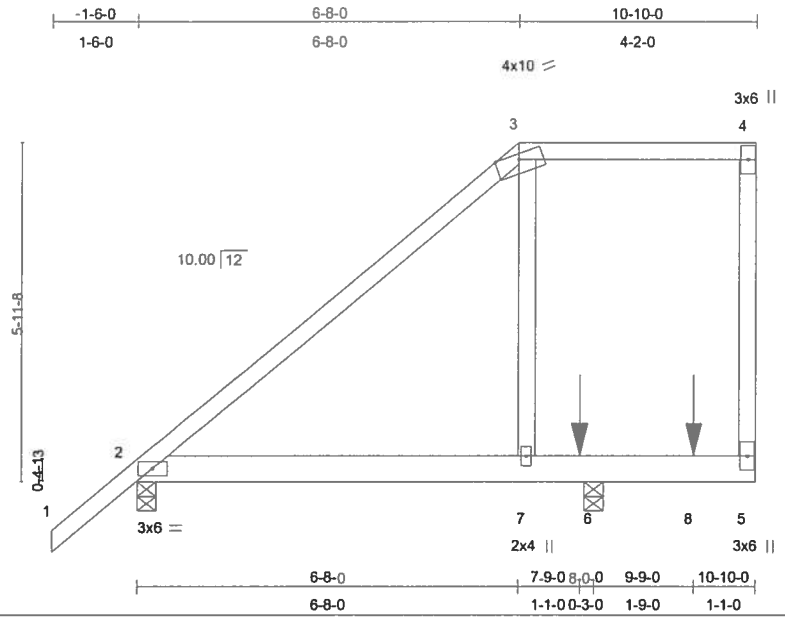

Scale = 1:39.0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	0.04	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.03	2-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.20	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 2=256/0-4-0, 6=1145/0-4-0
Max Horz 2=243(load case 6)
Max Uplift 2=-120(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-146/144, 3-4=0/35, 4-5=-42/71
BOT CHORD 2-7=-36/0, 6-7=-35/0, 6-8=-35/0, 5-8=-35/0
WEBS 3-7=-375/328

JOINT STRESS INDEX
2 = 0.67, 3 = 0.89, 4 = 0.38, 5 = 0.53 and 7 = 0.18

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) 250.0lb AC unit load placed on the bottom chord, 8-9-0 from left end, supported at two points, 2-0-0 apart.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 2.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 2-7=-10, 5-7=-110(F=-100)
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-14, 3-4=-14, 2-7=-30, 5-7=-50(F=-20)
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
3) C-C Wind: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=61, 2-3=38, 3-4=49, 2-7=-6, 6-7=-26(F=-20), 5-6=35(F=-20)
   Horz: 1-2=-69, 2-3=-47
   Drag: 3-4=-0
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
4) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=12, 2-3=-10, 3-4=29, 2-7=-6, 5-7=-26(F=-20)
   Horz: 1-2=-20, 2-3=1
   Drag: 3-4=-0
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
5) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=7, 2-3=14, 3-4=24, 2-7=-6, 6-7=-26(F=-20), 5-6=-1(F=-20)
   Horz: 1-2=-16, 2-3=-23
   Drag: 3-4=-0
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
6) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=42, 2-3=24, 3-4=12, 2-7=-6, 5-7=-26(F=-20)
   Horz: 1-2=-51, 2-3=-32
   Drag: 3-4=-0
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
7) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-3=12, 3-4=12, 2-7=-6, 6-7=-26(F=-20), 5-6=-1(F=-20)
   Horz: 1-2=-14, 2-3=-20
   Drag: 3-4=-0
   Concentrated Loads (lb)
   Vert: 6=-125 8=-125
8) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=42, 2-3=24, 3-4=12, 2-7=-6, 5-7=-26(F=-20)

Horz: 1-2=-51, 2-3=-32

Drag: 3-4=-0

Concentrated Loads (lb)

Vert: 6=-125 8=-125

9) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-3=12, 3-4=12, 2-7=-6, 6-7=-26(F=-20), 5-6=-1(F=-20)

Horz: 1-2=-14, 2-3=-20

Drag: 3-4=-0

Concentrated Loads (lb)

Vert: 6=-125 8=-125

10) Attic Floor: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-14, 3-4=-14, 2-7=-10, 5-7=-110(F=-100)

Concentrated Loads (lb)

Vert: 6=-125 8=-125

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901154
L256809	T10	MONO TRUSS	4	1	Job Reference (optional)

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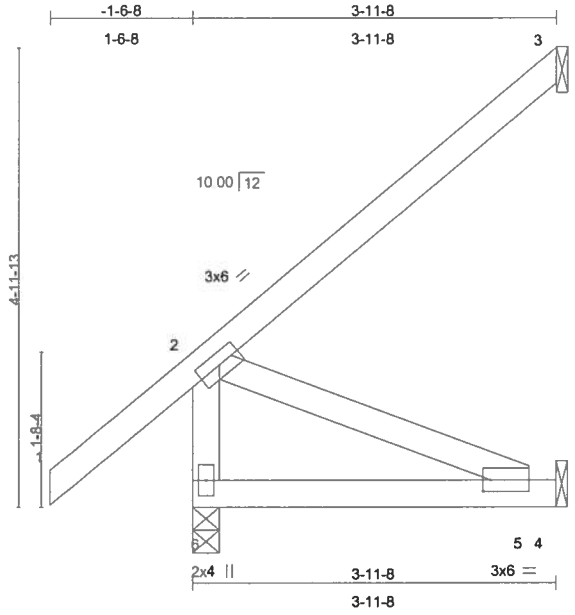

Plate Offsets (X,Y): [5:0-1-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.02	5-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 3=81/Mechanical, 6=232/0-3-8, 4=19/Mechanical
Max Horz 6=269(load case 6)
Max Uplift 3=-92(load case 6), 6=-34(load case 6), 4=-88(load case 6)
Max Grav 3=81(load case 1), 6=232(load case 1), 4=56(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-85/39, 2-6=-213/44
BOT CHORD 5-6=-298/3, 4-5=0/0
WEBS 2-5=-4/323

JOINT STRESS INDEX
2 = 0.15, 5 = 0.09 and 6 = 0.08

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901154
L256809	T10	MONO TRUSS	4	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3, 34 lb uplift at joint 6 and 88 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR
L256809	T11	MONO TRUSS	1	2	Job Reference (optional)

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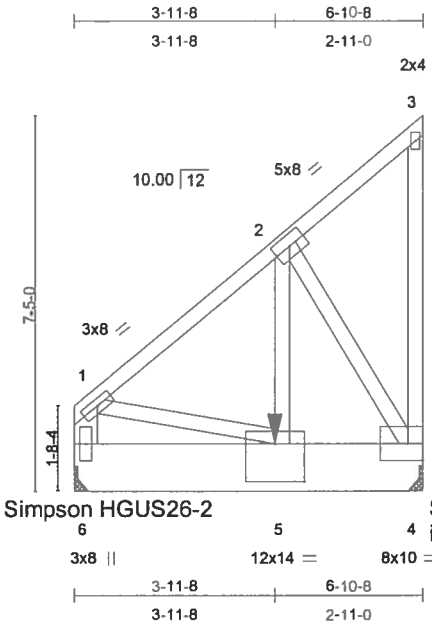

Plate Offsets (X,Y): [5:0-7-0,0-9-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.00	TC	0.12	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.00	BC	0.41	Vert(TL)	-0.03	5	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.61	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 151 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
1-6 2 X 6 SYP No.1D

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

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 4=3705/Mechanical, 6=2340/Mechanical
Max Horz 6=174(load case 5)
Max Uplift 4=-492(load case 5), 6=-381(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1713/217, 2-3=-60/22, 3-4=-48/36, 1-6=-1561/205
BOT CHORD 5-6=-174/7, 4-5=-289/1282
WEBS 2-5=-540/3028, 2-4=-2523/569, 1-5=-121/1344

JOINT STRESS INDEX
1 = 0.45, 2 = 0.67, 3 = 0.01, 4 = 0.19, 5 = 0.88 and 6 = 0.13

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 12 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-2-0 oc, Except member 4-2 2 X 4 - 1 row at 0-9-0 oc, member 5-1 2 X 4 - 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.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / FLOOR
L256809	T11	MONO TRUSS	1	2	Job Reference (optional)

NOTES

3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 4 and 381 lb uplift at joint 6.
7) Girder carries tie-in span(s): 2-6-0 from 4-0-0 to 7-6-0

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-3=-54, 5-6=-170(F=-160), 4-5=-625(F=-615)
   Concentrated Loads (lb)
   Vert: 5=-3394(F)
2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-14, 5-6=-140(F=-110), 4-5=-376(F=-346)
   Concentrated Loads (lb)
   Vert: 5=-2333(F)
3) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=-10, 5-6=-22(F=-16), 4-5=-224(F=-218)
   Horz: 1-3=1
   Concentrated Loads (lb)
   Vert: 5=-349(F)
4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=14, 5-6=14(F=20), 4-5=-173(F=-167)
   Horz: 1-3=-23
   Concentrated Loads (lb)
   Vert: 5=430(F)
5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=24, 5-6=38(F=44), 4-5=-140(F=-134)
   Horz: 1-3=-32
   Concentrated Loads (lb)
   Vert: 5=938(F)
6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=12, 5-6=9(F=15), 4-5=-181(F=-175)
   Horz: 1-3=-20
   Concentrated Loads (lb)
   Vert: 5=312(F)
7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=24, 5-6=38(F=44), 4-5=-140(F=-134)
   Horz: 1-3=-32
   Concentrated Loads (lb)
   Vert: 5=938(F)
8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-3=12, 5-6=9(F=15), 4-5=-181(F=-175)
   Horz: 1-3=-20
   Concentrated Loads (lb)
   Vert: 5=312(F)

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901156
L256809	T12	MONO TRUSS	8	1	Job Reference (optional)

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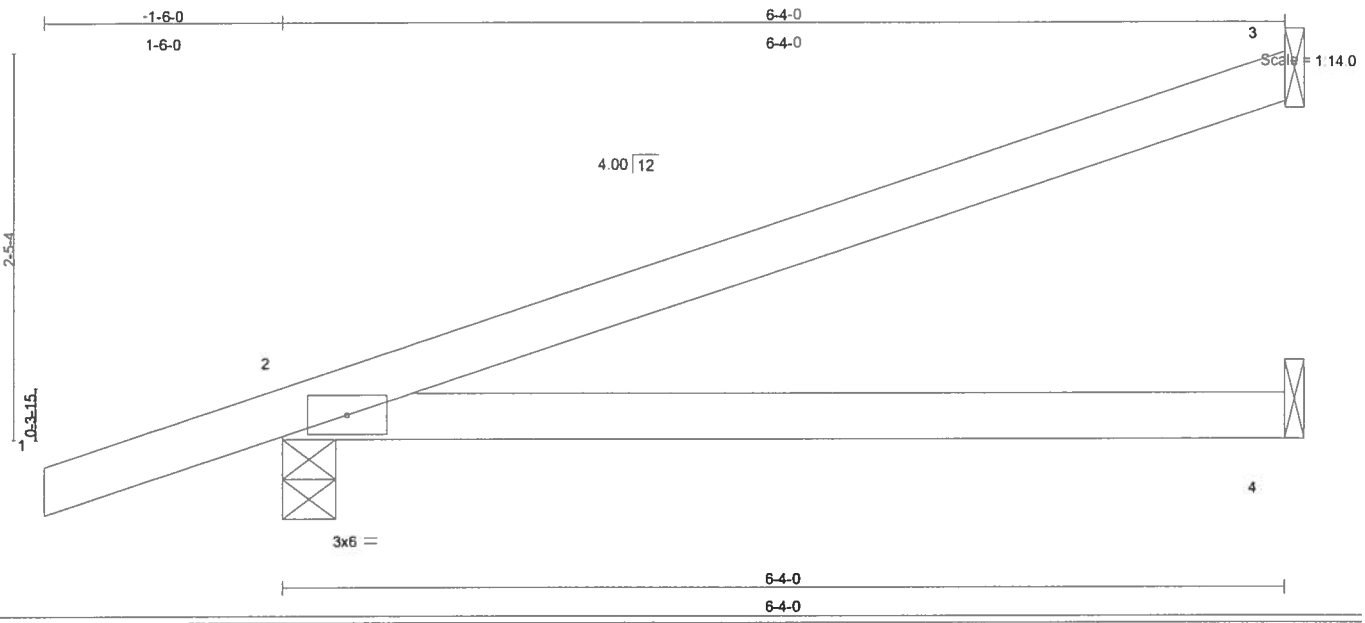

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	0.20	2-4	>363	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.11	2-4	>646	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 22 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D

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 (lb/size) 3=153/Mechanical, 2=298/0-4-0, 4=31/Mechanical
Max Horz 2=128(load case 4)
Max Uplift 3=-118(load case 4), 2=-264(load case 4), 4=-58(load case 4)
Max Grav 3=153(load case 1), 2=298(load case 1), 4=92(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-78/39
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.11

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 3, 264 lb uplift at joint 2 and 58 lb uplift at joint 4.

Continued on page 2

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901156
L256809	T12	MONO TRUSS	8	1	Job Reference (optional)

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901157
L256809	T13	COMMON	1	1	Job Reference (optional)

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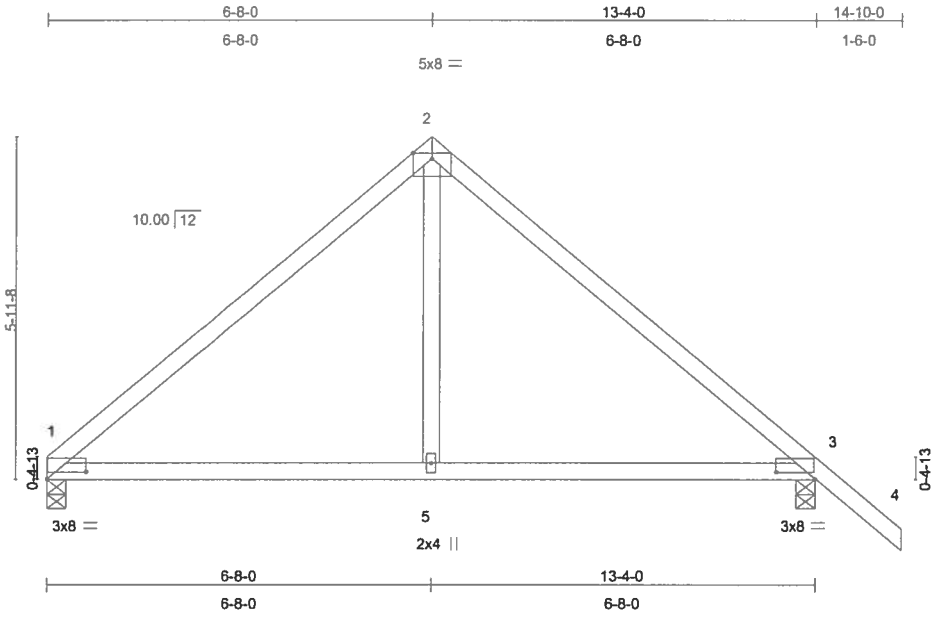

Plate Offsets (X,Y): [1:0-8-3,0-1-6], [3:0-8-3,0-1-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.06	1-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.09	1-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 1=410/0-4-0, 3=512/0-4-0
Max Horz 1=-178(load case 4)
Max Uplift 1=-80(load case 6), 3=-159(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-484/214, 2-3=-487/220, 3-4=0/52
BOT CHORD 1-5=-15/290, 3-5=-15/290
WEBS 2-5=-3/232

JOINT STRESS INDEX
1 = 0.68, 2 = 0.79, 3 = 0.68 and 5 = 0.16

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901157
L256809	T13	COMMON	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1 and 159 lb uplift at joint 3.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901158
L256809	T13G	GABLE	1	1	Job Reference (optional)

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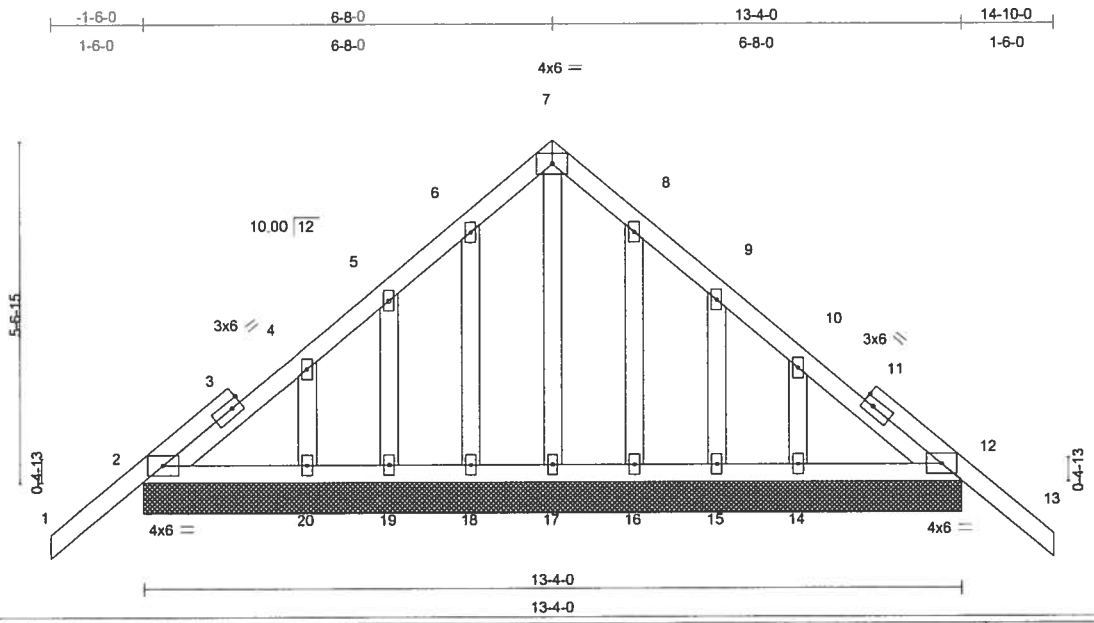

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.01	13	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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 (lb/size) 2=220/13-4-0, 12=220/13-4-0, 17=84/13-4-0, 18=100/13-4-0, 19=87/13-4-0, 20=140/13-4-0, 16=100/13-4-0, 15=87/13-4-0, 14=140/13-4-0
Max Horz 2=-188(load case 4)
Max Uplift 2=-119(load case 6), 12=-140(load case 7), 18=-72(load case 6), 19=-108(load case 6), 20=-76(load case 7), 16=-66(load case 7), 15=-108(load case 7), 14=-75(load case 7)
Max Grav 2=220(load case 1), 12=220(load case 1), 17=120(load case 7), 18=103(load case 10), 19=87(load case 10), 20=140(load case 1), 16=103(load case 11), 15=87(load case 11), 14=140(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-138/106, 3-4=-131/116, 4-5=-87/102, 5-6=-42/116, 6-7=-39/152, 7-8=-39/152, 8-9=-38/103, 9-10=-44/40, 10-11=-74/58, 11-12=-80/49, 12-13=0/60
BOT CHORD 2-20=-20/180, 19-20=-20/180, 18-19=-20/180, 17-18=-20/180, 16-17=-20/180, 15-16=-20/180, 14-15=-20/180, 12-14=-20/180
WEBS 7-17=-115/0, 6-18=-88/82, 5-19=-77/107, 4-20=-119/96, 8-16=-88/77, 9-15=-77/108, 10-14=-119/100

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JOINT STRESS INDEX
2 = 0.64, 3 = 0.00, 3 = 0.16, 4 = 0.07, 5 = 0.05, 6 = 0.05, 7 = 0.08, 8 = 0.05, 9 = 0.05, 10 = 0.07, 11 = 0.00, 11 = 0.16, 12 = 0.64, 14 = 0.06, 15 = 0.06, 16 = 0.05, 17 = 0.03, 18 = 0.05, 19 = 0.06 and 20 = 0.06

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901158
L256809	T13G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2, 140 lb uplift at joint 12, 72 lb uplift at joint 18, 108 lb uplift at joint 19, 76 lb uplift at joint 20, 66 lb uplift at joint 16, 108 lb uplift at joint 15 and 75 lb uplift at joint 14.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) Gable truss supports 12" max. rake gable overhang.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-64(F=-10), 7-13=-64(F=-10), 2-12=-10

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901159
L256809	T14	SPECIAL	3	1	Job Reference (optional)

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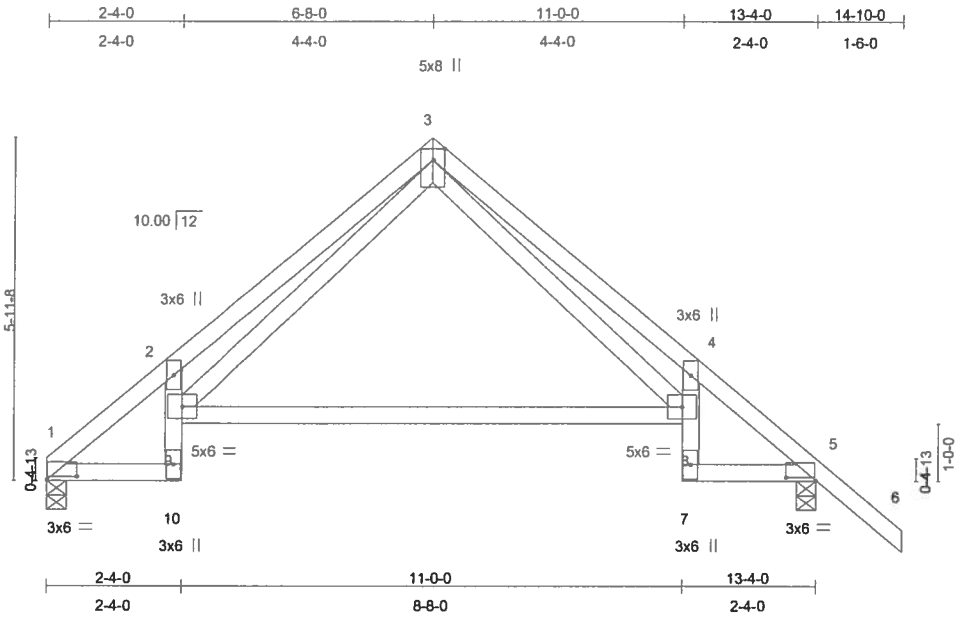

Plate Offsets (X,Y): [1:0-6-3,0-0-10], [3:0-2-5,0-2-7], [5:0-6-3,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.15	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.30	8-9	>512	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.13	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 72 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=410/0-4-0, 5=512/0-4-0
Max Horz 1=-178(load case 4)
Max Uplift 1=-80(load case 6), 5=-159(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-614/268, 2-3=-1100/473, 3-4=-1042/372, 4-5=-569/189, 5-6=0/52
BOT CHORD 1-10=-111/380, 9-10=-16/104, 2-9=-383/230, 8-9=-21/299, 7-8=0/95, 4-8=-368/204, 5-7=-33/338
WEBS 3-9=-294/738, 3-8=-182/688

JOINT STRESS INDEX
1 = 0.63, 2 = 0.40, 3 = 0.64, 4 = 0.40, 5 = 0.63, 7 = 0.47, 8 = 0.78, 9 = 0.78 and 10 = 0.47

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901159
L256809	T14	SPECIAL	3	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1 and 159 lb uplift at joint 5.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901160
L256809	T15	SPECIAL	2	1	Job Reference (optional)

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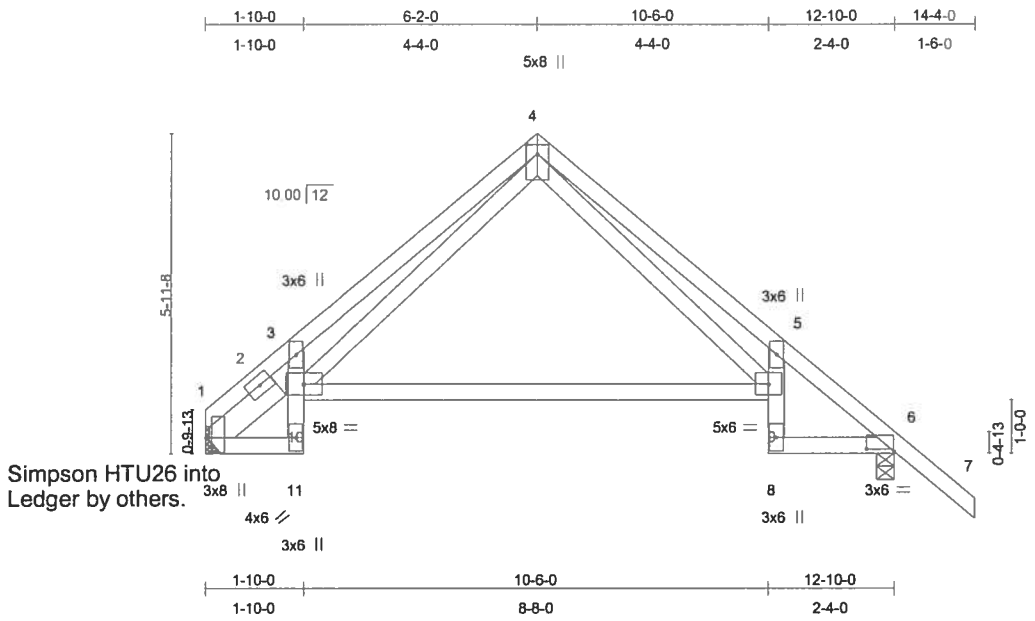

Simpson HTU26 into Ledger by others.

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.14	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.28	9-10	>542	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.11	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 75 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2
BOT CHORD	2 X 4 SYP No.2
WEBS	2 X 4 SYP No.3
SLIDER	Left 2 X 6 SYP No.1D 1-7-15

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.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 1=399/Mechanical, 6=501/0-4-0
Max Horz 1=-178(load case 4)
Max Uplift 1=-76(load case 6), 6=-157(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-567/231, 2-3=-490/239, 3-4=-961/413, 4-5=-1007/360, 5-6=-552/183, 6-7=0/52
BOT CHORD	1-11=-111/299, 10-11=-23/104, 3-10=-299/201, 9-10=-21/285, 8-9=0/93, 5-9=-360/203, 6-8=-31/328
WEBS	4-10=-237/611, 4-9=-177/675

JOINT STRESS INDEX

1 = 0.53, 1 = 0.20, 2 = 0.00, 3 = 0.51, 4 = 0.70, 5 = 0.39, 6 = 0.58, 8 = 0.38, 9 = 0.76, 10 = 0.55 and 11 = 0.40

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901160
L256809	T15	SPECIAL	2	1	Job Reference (optional)

NOTES

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 1 and 157 lb uplift at joint 6.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901161
L256809	T16	SPECIAL	1	1	Job Reference (optional)

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Scale = 1:43.2

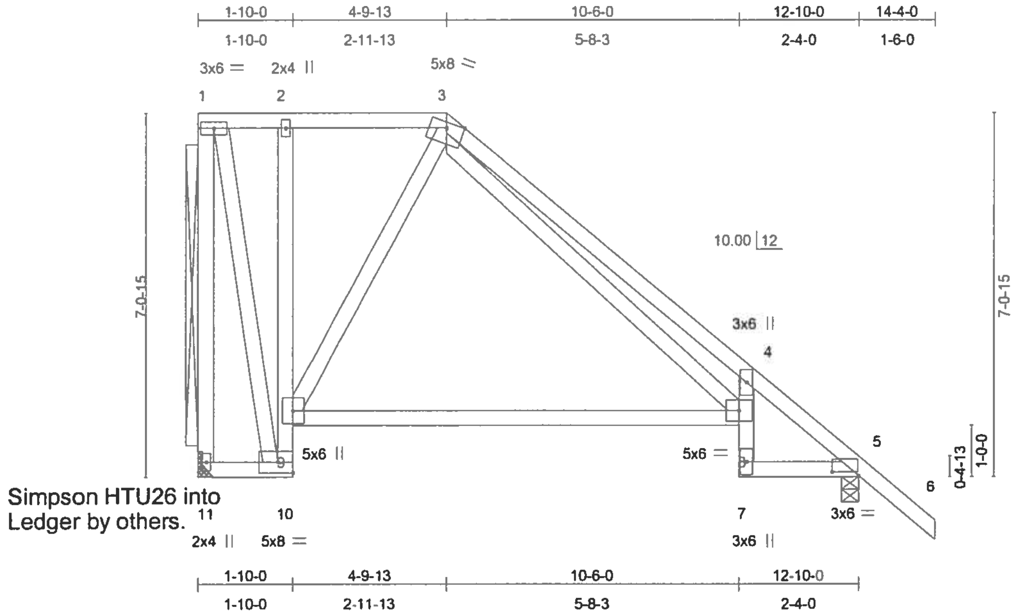

Plate Offsets (X,Y): [5:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.14	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.29	8-9	>526	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.10	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 98 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
2-10 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS T-Brace: 2 X 4 SYP No.3 - 1-11
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 11=395/Mechanical, 5=497/0-4-0
Max Horz 11=-278(load case 7)
Max Uplift 11=-127(load case 4), 5=-119(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-428/146, 1-2=-82/34, 2-3=-101/8, 3-4=-1108/272, 4-5=-550/63, 5-6=0/52
BOT CHORD 10-11=0/384, 9-10=-295/287, 2-9=-29/107, 8-9=0/252, 7-8=0/91, 4-8=-459/283, 5-7=0/334
WEBS 1-10=-127/352, 3-9=-243/273, 3-8=-238/791

JOINT STRESS INDEX
1 = 0.24, 2 = 0.67, 3 = 0.59, 4 = 0.52, 5 = 0.59, 7 = 0.36, 8 = 0.71, 9 = 0.72, 10 = 0.61 and 11 = 0.29

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NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 11 and 119 lb uplift at joint 5.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901162
L256809	T17	SPECIAL	1	1	Job Reference (optional)

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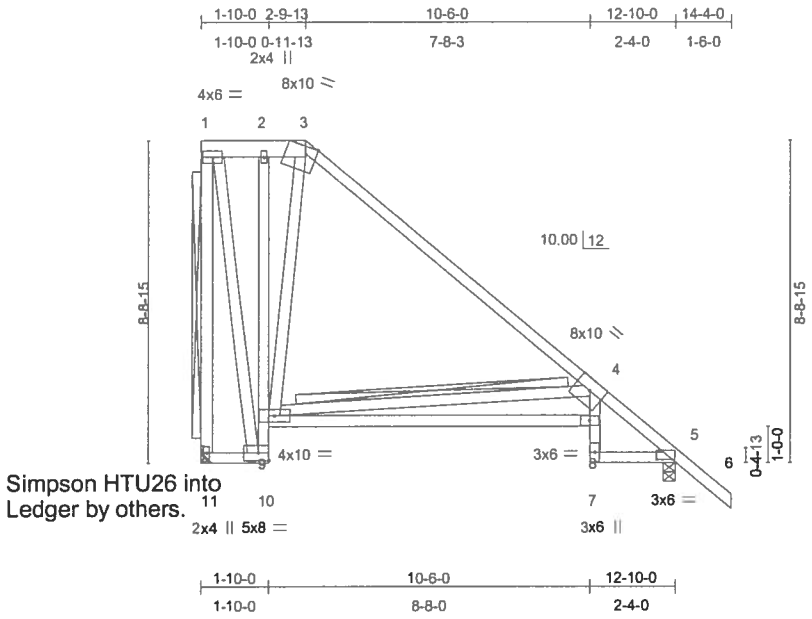

Plate Offsets (X,Y): [3:0-3-7,Edge], [5:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.14	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.80	Vert(TL)	-0.27	8-9	>560	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.10	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 110 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except* 3-6 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 2-10 2 X 4 SYP No.3
WEBS 2 X 4 SYP 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 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS T-Brace: 2 X 4 SYP No.3 - 1-11, 4-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 11=395/Mechanical, 5=497/0-4-0
Max Horz 11=-329(load case 7)
Max Uplift 11=-165(load case 7), 5=-95(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-423/142, 1-2=-68/42, 2-3=-77/19, 3-4=-311/0, 4-5=-557/0, 5-6=0/52
BOT CHORD 10-11=0/456, 9-10=-314/400, 2-9=-50/224, 8-9=0/953, 7-8=0/93, 4-8=0/223, 5-7=0/351
WEBS 1-10=-205/364, 3-9=-386/433, 4-9=-817/355

JOINT STRESS INDEX
1 = 0.17, 2 = 0.66, 3 = 0.86, 4 = 0.61, 5 = 0.70, 7 = 0.36, 8 = 0.67, 9 = 0.54, 10 = 0.76 and 11 = 0.31

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901162
L256809	T17	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 11 and 95 lb uplift at joint 5.

LOAD CASE(S) Standard

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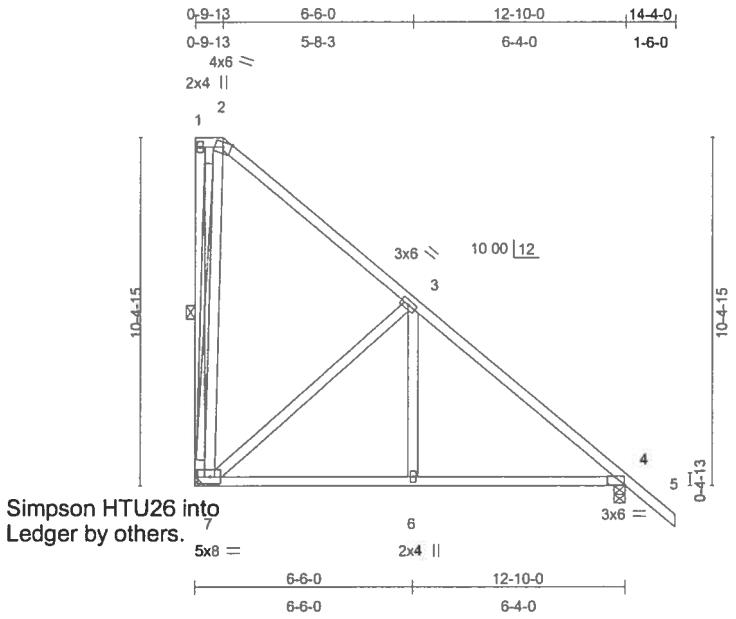
October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901163
L256809	T18	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:40:00 2007 Page 1



Simpson HTU26 into Ledger by others.

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.03	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 95 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-7
T-Brace: 2 X 4 SYP No.3 - 2-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 7=401/Mechanical, 4=487/0-4-0
Max Horz 7=-384(load case 7)
Max Uplift 7=-234(load case 7), 4=-52(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-157/107, 2-3=-129/68, 3-4=-447/0, 4-5=0/52, 1-2=-10/10
BOT CHORD 6-7=0/285, 4-6=0/285
WEBS 3-7=-326/317, 3-6=0/214, 2-7=-269/351

JOINT STRESS INDEX
1 = 0.21, 2 = 0.58, 3 = 0.17, 4 = 0.59, 6 = 0.15 and 7 = 0.26

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October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901163
L256809	T18	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 7 and 52 lb uplift at joint 4.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901164
L256809	T19	SPECIAL	1	1	Job Reference (optional)

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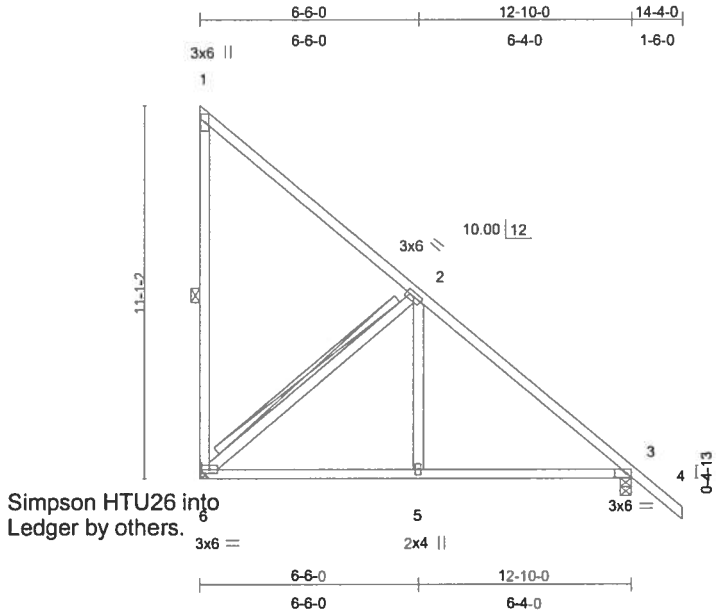

Plate Offsets (X,Y): [3:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.06	3-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 82 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6
T-Brace: 2 X 4 SYP No.3 - 2-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 6=395/Mechanical, 3=497/0-4-0
Max Horz 6=-401(load case 7)
Max Uplift 6=-248(load case 7), 3=-43(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-141/180, 1-2=-141/82, 2-3=-463/0, 3-4=0/52
BOT CHORD 5-6=0/291, 3-5=0/291
WEBS 2-6=-347/343, 2-5=0/218

JOINT STRESS INDEX
1 = 0.31, 2 = 0.19, 3 = 0.51, 5 = 0.15 and 6 = 0.23

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901164
L256809	T19	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 6 and 43 lb uplift at joint 3.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901165
L256809	T20	SPECIAL	1	1	Job Reference (optional)

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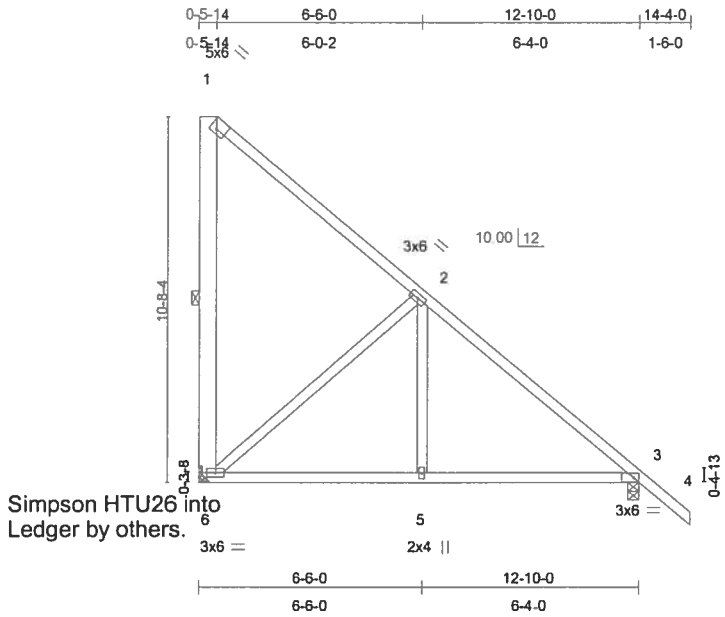

Simpson HTU26 into Ledger by others.

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.03	3-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.06	3-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 90 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
1-6 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6

REACTIONS (lb/size) 6=392/Mechanical, 3=494/0-4-0
Max Horz 6=-398(load case 7)
Max Uplift 6=-246(load case 7), 3=-45(load case 7)

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-145/187, 1-2=-140/80, 2-3=-457/0, 3-4=0/52
BOT CHORD 5-6=0/293, 3-5=0/293
WEBS 2-6=-333/329, 2-5=0/209

JOINT STRESS INDEX
1 = 0.64, 2 = 0.18, 3 = 0.59, 5 = 0.15 and 6 = 0.33

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901165
L256809	T20	SPECIAL	1	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 6 and 45 lb uplift at joint 3.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901166
L256809	T21	SPECIAL	1	1	Job Reference (optional)

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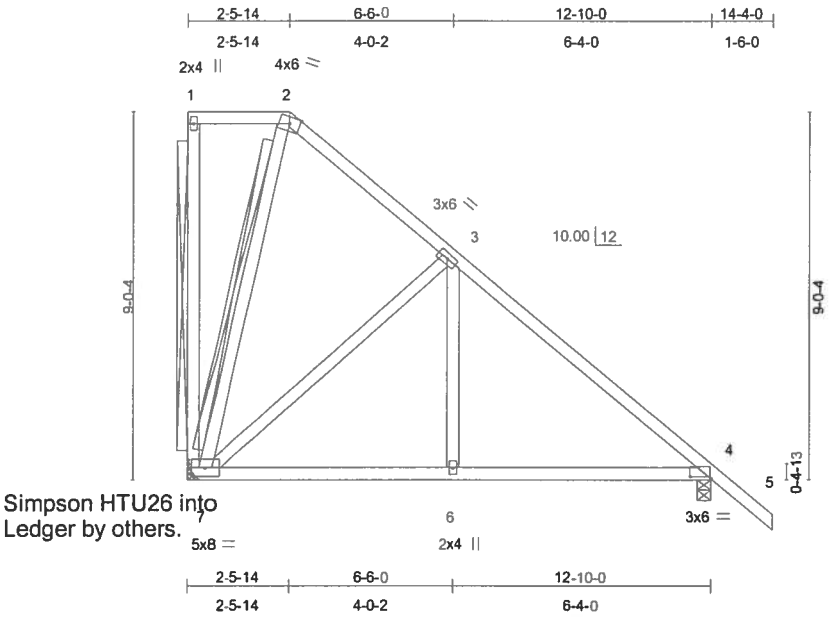

Plate Offsets (X,Y): [4:0-6-3,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.03	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 91 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 1-7, 2-7
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 7=400/Mechanical, 4=488/0-4-0
Max Horz 7=-340(load case 7)
Max Uplift 7=-181(load case 7), 4=-85(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-53/37, 1-2=-5/0, 2-3=-129/10, 3-4=-445/0, 4-5=0/52
BOT CHORD 6-7=0/256, 4-6=0/256
WEBS 2-7=-130/149, 3-7=-300/283, 3-6=0/215

JOINT STRESS INDEX
1 = 0.15, 2 = 0.19, 3 = 0.16, 4 = 0.53, 6 = 0.15 and 7 = 0.25

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October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901166
L256809	T21	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 7 and 85 lb uplift at joint 4.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901167
L256809	T22	MONO HIP	1	1	Job Reference (optional)

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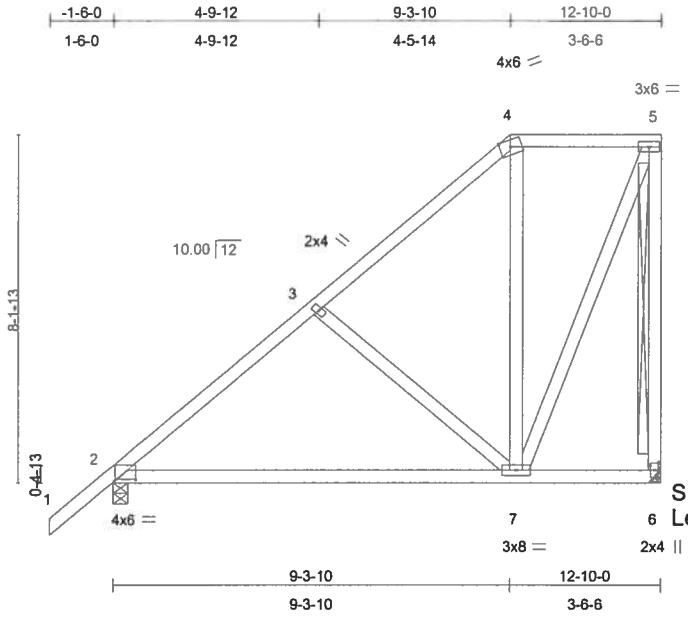

Simpson HTU26 into Ledger by others.

Plate Offsets (X,Y): [2:0-6-7,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.15	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.26	2-7	>575	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.36	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 6=395/Mechanical, 2=497/0-4-0
Max Horz 2=312(load case 6)
Max Uplift 6=-148(load case 6), 2=-104(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-459/63, 3-4=-265/48, 4-5=-137/111, 5-6=-396/313
BOT CHORD 2-7=-301/293, 6-7=-3/2
WEBS 3-7=-202/244, 4-7=-113/163, 5-7=-284/351

JOINT STRESS INDEX
2 = 0.69, 3 = 0.13, 4 = 0.44, 5 = 0.31, 6 = 0.21 and 7 = 0.41

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901167
L256809	T22	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 6 and 104 lb uplift at joint 2.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901168
L256809	T23	HIP	1	1	Job Reference (optional)

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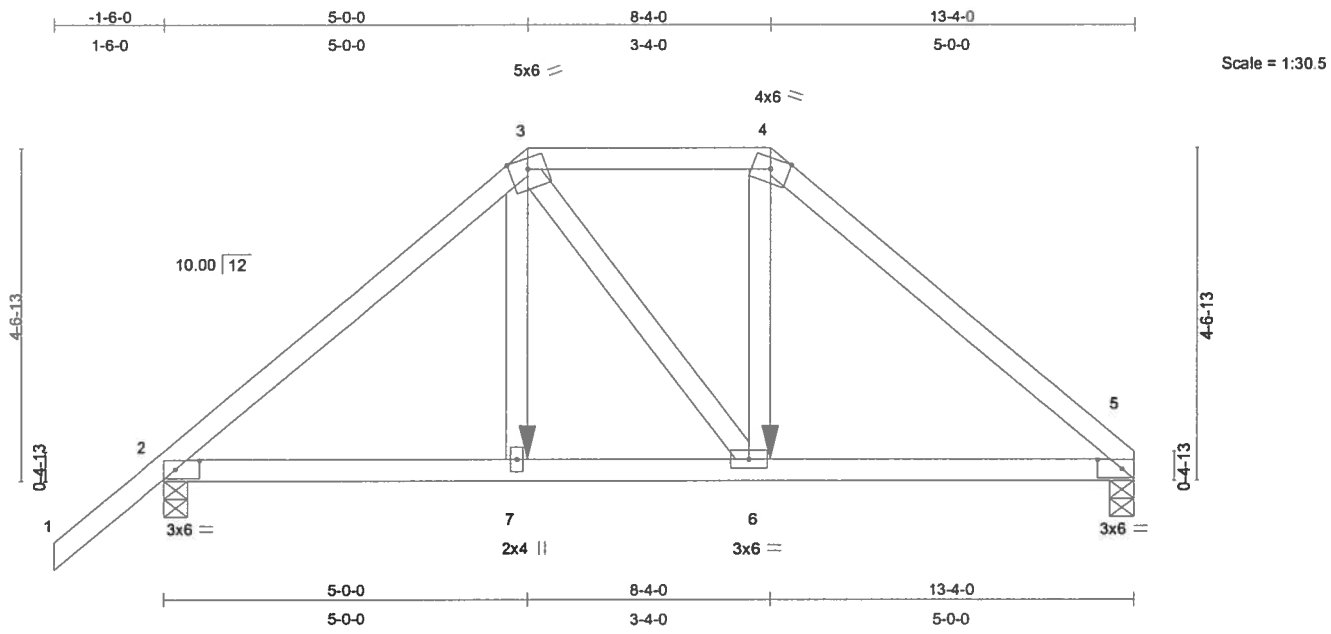

Plate Offsets (X,Y): [2:0-4-1,0-1-8], [5:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.04	5-6	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 5=664/0-4-0, 2=774/0-4-0
Max Horz 2=140(load case 4)
Max Uplift 5=-272(load case 6), 2=-357(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-897/392, 3-4=-619/352, 4-5=-891/384
BOT CHORD 2-7=-333/610, 6-7=-329/602, 5-6=-271/611
WEBS 3-6=-106/93, 4-6=-170/284, 3-7=-123/242

JOINT STRESS INDEX
2 = 0.64, 3 = 0.39, 4 = 0.42, 5 = 0.68, 6 = 0.19 and 7 = 0.18

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 5 and 357 lb uplift at joint 2.
7) Girder carries hip end with 5-0-0 end setback.

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF
					J1901168
L256809	T23	HIP	1	1	Job Reference (optional)

NOTES

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-90(F=-36), 4-5=-54, 2-7=-10, 6-7=-17(F=-7), 5-6=-10

Concentrated Loads (lb)

Vert: 6=-187(F) 7=-187(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901169
L256809	T24	COMMON	1	1	Job Reference (optional)

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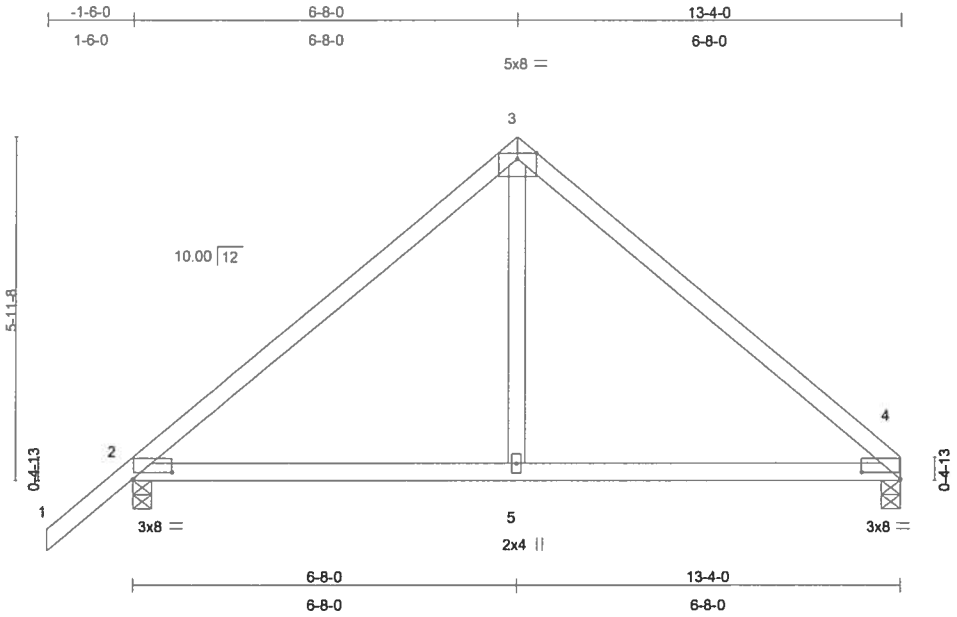

Plate Offsets (X,Y): [2:0-8-3,0-1-6], [4:0-8-3,0-1-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.06	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.09	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 4=410/0-4-0, 2=512/0-4-0
Max Horz 2=178(load case 5)
Max Uplift 4=-80(load case 7), 2=-159(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-487/220, 3-4=-484/214
BOT CHORD 2-5=-39/290, 4-5=-39/290
WEBS 3-5=-3/232

JOINT STRESS INDEX
2 = 0.68, 3 = 0.79, 4 = 0.68 and 5 = 0.16

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901169
L256809	T24	COMMON	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 4 and 159 lb uplift at joint 2.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901170
L256809	T25	COMMON	3	1	Job Reference (optional)

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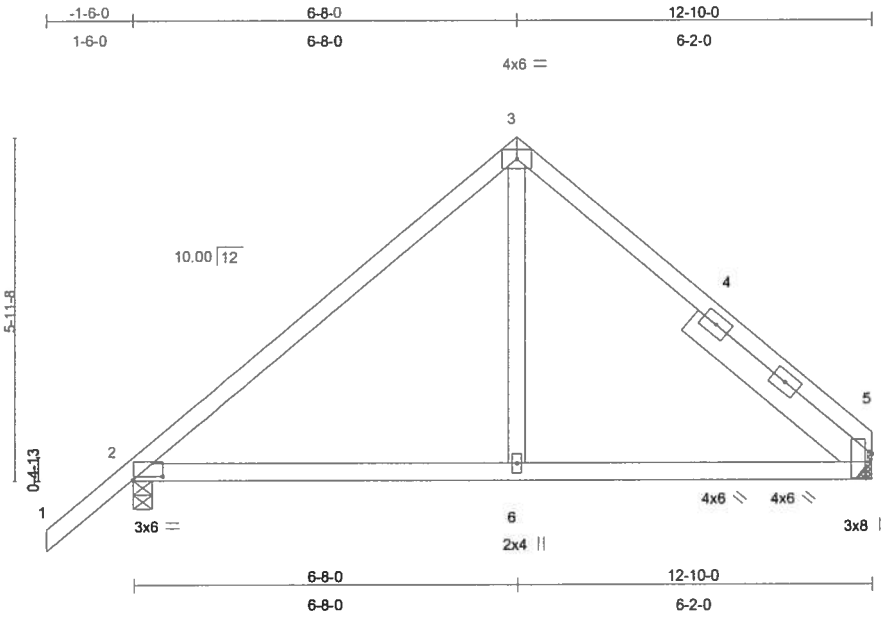

Simpson HTU26 into Ledger by others.

Plate Offsets (X,Y): [2:0-6-3,0-0-10], [5:0-5-0,0-1-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.05	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.08	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 65 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 6 SYP No.1D 4-0-2

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.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 5=399/Mechanical, 2=501/0-4-0
Max Horz 2=178(load case 5)
Max Uplift 5=-76(load case 7), 2=-157(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-463/208, 3-4=-260/206, 4-5=-437/184
BOT CHORD 2-6=-42/268, 5-6=-42/268
WEBS 3-6=0/213

JOINT STRESS INDEX
2 = 0.70, 3 = 0.73, 4 = 0.00, 5 = 0.48, 5 = 0.08, 5 = 0.08 and 6 = 0.15

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901170
L256809	T25	COMMON	3	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5 and 157 lb uplift at joint 2.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901171
L256809	T26	SPECIAL	1	1	Job Reference (optional)

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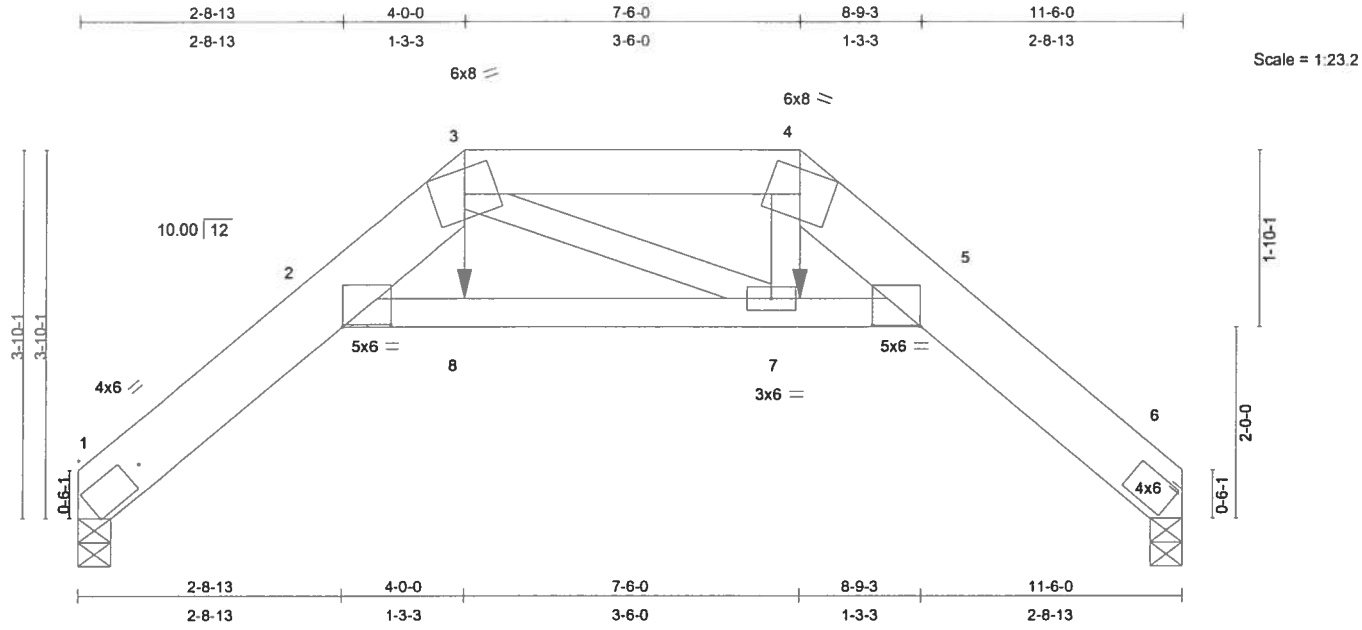

Plate Offsets (X,Y): [2:0-6-0,0-0-4], [3:1-3-5,4-8-6], [3:4-4-12,0-0-4], [5:0-6-2,0-0-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.10	2-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.19	2-7	>693	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.23	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D *Except* 3-4 2 X 6 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS (lb/size) 1=577/0-4-0, 6=573/0-4-0
Max Horz 1=91(load case 4)
Max Uplift 1=-149(load case 4), 6=-148(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-332/160, 2-3=-1029/374, 3-4=-1365/432, 4-5=-1312/430, 5-6=-330/112
BOT CHORD 2-8=-477/1240, 7-8=-477/1240, 5-7=-425/1326
WEBS 3-7=-98/194, 4-7=-106/380

JOINT STRESS INDEX
2 = 0.51, 3 = 0.15, 3 = 0.00, 3 = 0.00, 4 = 0.14, 5 = 0.65 and 7 = 0.25

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901171
L256809	T26	SPECIAL	1	1	Job Reference (optional)

NOTES

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 1 and 148 lb uplift at joint 6.
8) Girder carries hip end with 1-3-2 right side setback, 1-3-2 left side setback, and 4-0-0 end setback.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-66, 2-3=-54, 3-4=-76(F=-23), 4-5=-54, 5-6=-66, 2-8=-10, 7-8=-14(F=-4), 5-7=-10
   Concentrated Loads (lb)
   Vert: 7=-165(F) 8=-165(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901172
L256809	T27	SPECIAL	1	1	Job Reference (optional)

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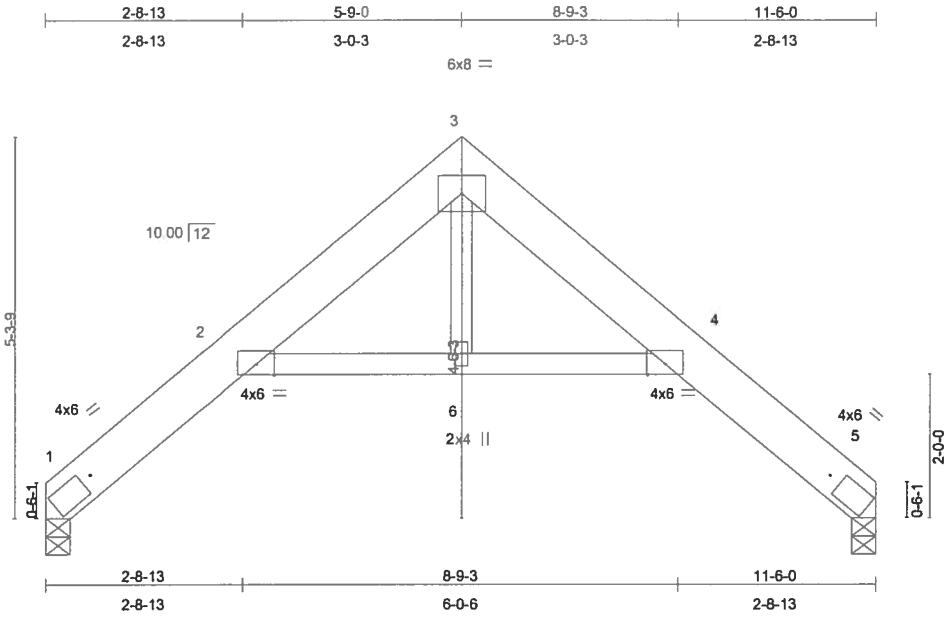

Plate Offsets (X,Y): [3:6-5-4,0-3-11], [3:6-5-6,0-3-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.06	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.11	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.15	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 60 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 1=364/0-4-0, 5=364/0-4-0
Max Horz 1=-129(load case 4)
Max Uplift 1=-67(load case 6), 5=-67(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-206/141, 2-3=-519/243, 3-4=-519/243, 4-5=-206/141
BOT CHORD 2-6=-86/503, 4-6=-86/503
WEBS 3-6=-22/139

JOINT STRESS INDEX
2 = 0.39, 3 = 0.50, 3 = 0.00, 3 = 0.00, 4 = 0.39 and 6 = 0.10

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901172
L256809	T27	SPECIAL	1	1	Job Reference (optional)

NOTES

5) Bearing at joint(s) 1, 5 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 capable of withstanding 67 lb uplift at joint 1 and 67 lb uplift at joint 5.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901173
L256809	T28	SPECIAL	2	1	Job Reference (optional)

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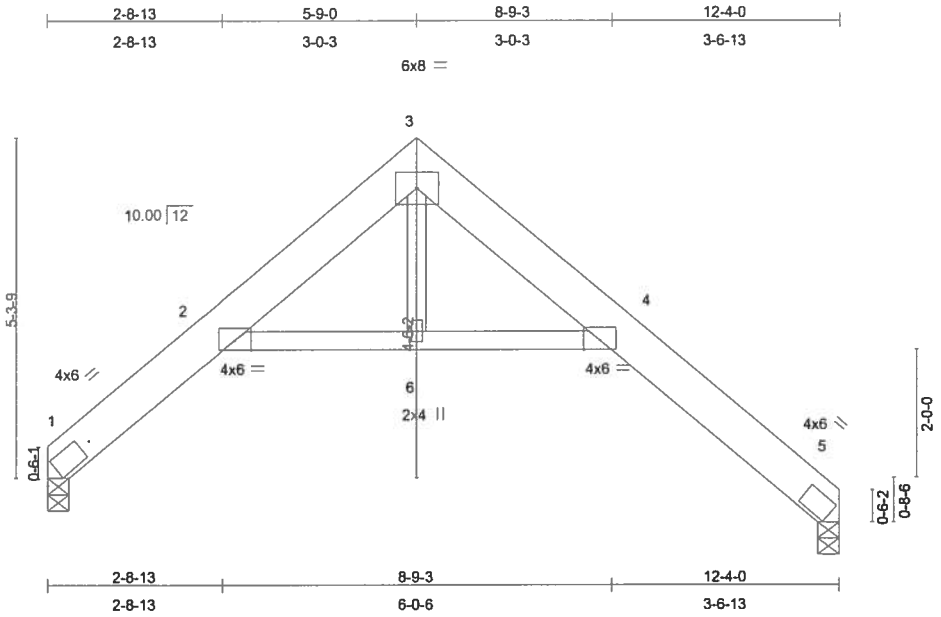

Plate Offsets (X,Y): [3:6-5-5,0-3-8], [3:1-5-3,7-2-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.10	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.18	4-6	>786	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.23	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 64 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 1=391/0-4-0, 5=392/0-4-0
Max Horz 1=-148(load case 4)
Max Uplift 1=-71(load case 6), 5=-76(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-222/177, 2-3=-600/256, 3-4=-568/240, 4-5=-224/160
BOT CHORD 2-6=-58/584, 4-6=-58/584
WEBS 3-6=-23/148

JOINT STRESS INDEX
2 = 0.52, 3 = 0.59, 3 = 0.00, 3 = 0.00, 4 = 0.52 and 6 = 0.10

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901173
L256809	T28	SPECIAL	2	1	Job Reference (optional)

NOTES

5) Bearing at joint(s) 1, 5 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 capable of withstanding 71 lb uplift at joint 1 and 76 lb uplift at joint 5.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901174
L256809	T29	SPECIAL	1	1	Job Reference (optional)

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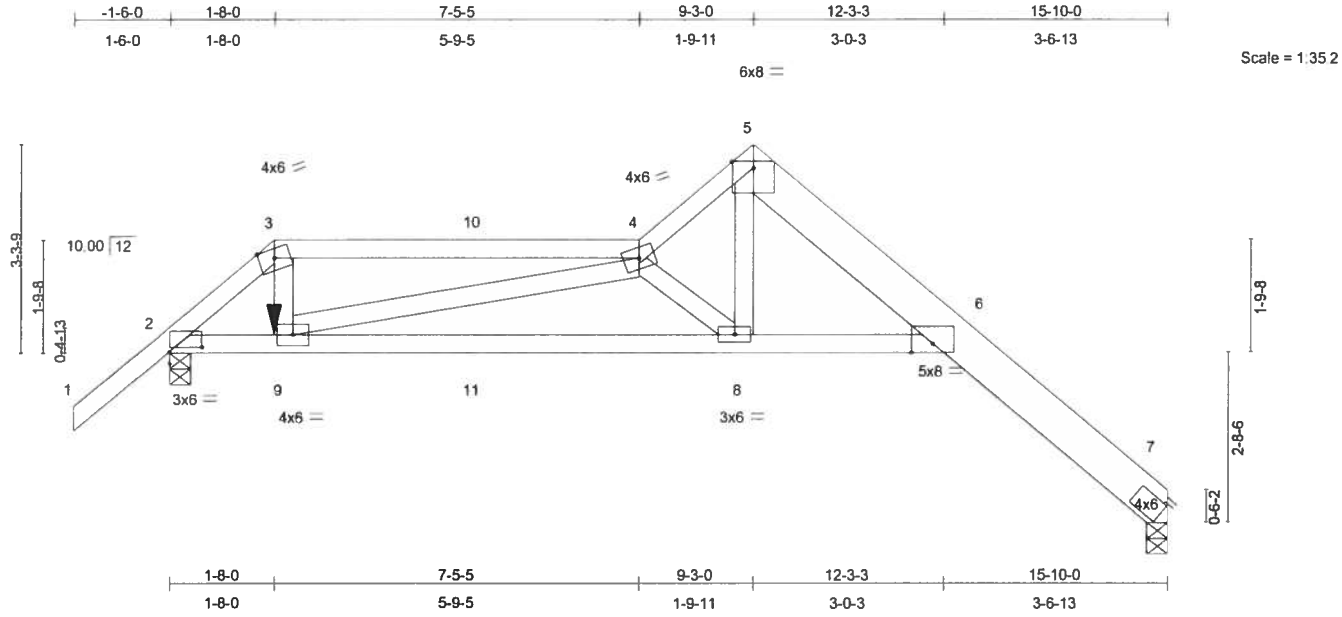

Plate Offsets (X,Y): [2:0-6-3,0-0-14], [3:0-2-7,2-4-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.14	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.26	6-8	>708	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.47	Horz(TL)	0.21	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 81 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 5-7 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 7=504/0-4-0, 2=624/0-4-0
Max Horz 2=-123(load case 3)
Max Uplift 7=-108(load case 6), 2=-215(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-743/149, 3-10=-588/131, 4-10=-587/131, 4-5=-939/179, 5-6=-726/127, 6-7=-292/96
BOT CHORD 2-9=-115/564, 9-11=-223/1328, 8-11=-223/1328, 6-8=-33/697
WEBS 3-9=0/317, 5-8=-134/654, 4-8=-805/246, 4-9=-767/177

JOINT STRESS INDEX
2 = 0.73, 3 = 0.46, 3 = 0.00, 4 = 0.81, 5 = 0.30, 6 = 0.47, 8 = 0.41 and 9 = 0.22

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901174
L256809	T29	SPECIAL	1	1	Job Reference (optional)

NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 7 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 108 lb uplift at joint 7 and 215 lb uplift at joint 2.
8) Girder carries hip end with 7-5-4 right side setback, 1-8-0 left side setback, and 2-8-0 end setback.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-10=-58(F=-5), 4-10=-54, 4-5=-54, 5-6=-54, 6-7=-67, 2-9=-10, 9-11=-11(F=-1), 6-11=-10
   Concentrated Loads (lb)
   Vert: 9=-21(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901175
L256809	T30	SPECIAL	1	1	Job Reference (optional)

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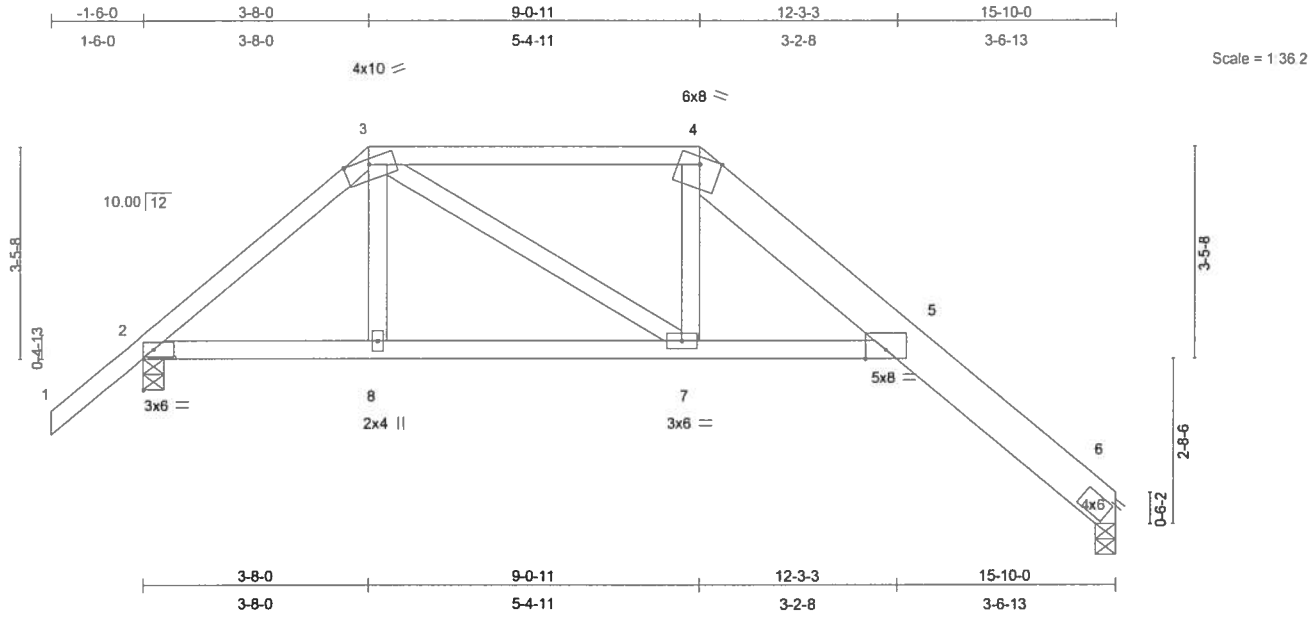

Plate Offsets (X,Y): [2:0-4-1,0-1-8], [3:0-5-7,5-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.15	5-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.26	5-7	>729	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.20	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 82 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 4-6 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 6=499/0-4-0, 2=592/0-4-0
Max Horz 2=-131(load case 4)
Max Uplift 6=-130(load case 7), 2=-150(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-643/307, 3-4=-684/412, 4-5=-713/349, 5-6=-288/190
BOT CHORD 2-8=-122/436, 7-8=-121/438, 5-7=-154/683
WEBS 3-8=0/136, 3-7=-146/314, 4-7=-51/95

JOINT STRESS INDEX
2 = 0.59, 3 = 0.45, 3 = 0.00, 4 = 0.43, 5 = 0.52, 7 = 0.18 and 8 = 0.10

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901175
L256809	T30	SPECIAL	1	1	Job Reference (optional)

NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 6 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 130 lb uplift at joint 6 and 150 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901176
L256809	T31	SPECIAL	1	1	Job Reference (optional)

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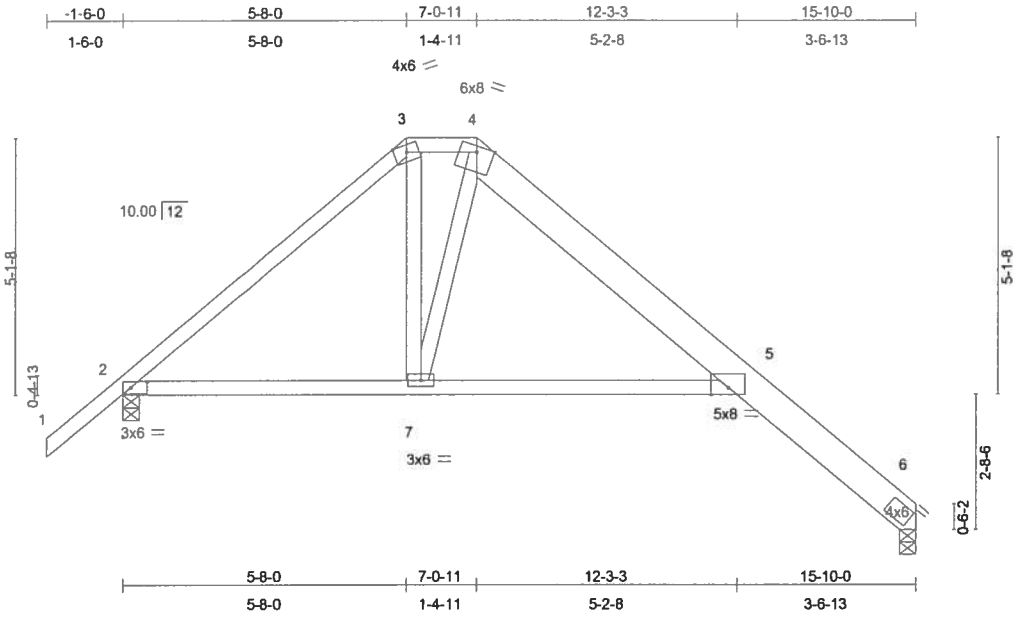

Plate Offsets (X,Y): [2:0-4-1,0-1-8], [3:0-8-6,7-11-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.20	5-7	>921	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.36	5-7	>516	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.25	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 4-6 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 6=499/0-4-0, 2=592/0-4-0
Max Horz 2=-178(load case 4)
Max Uplift 6=-118(load case 7), 2=-162(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-625/274, 3-4=-413/299, 4-5=-511/218, 5-6=-288/181
BOT CHORD 2-7=-63/396, 5-7=-21/442
WEBS 3-7=-94/350, 4-7=-254/143

JOINT STRESS INDEX
2 = 0.60, 3 = 0.67, 3 = 0.00, 4 = 0.87, 5 = 0.42 and 7 = 0.22

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901176
L256809	T31	SPECIAL	1	1	Job Reference (optional)

NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 6 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 118 lb uplift at joint 6 and 162 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901177
L256809	T32	SPECIAL	1	1	Job Reference (optional)

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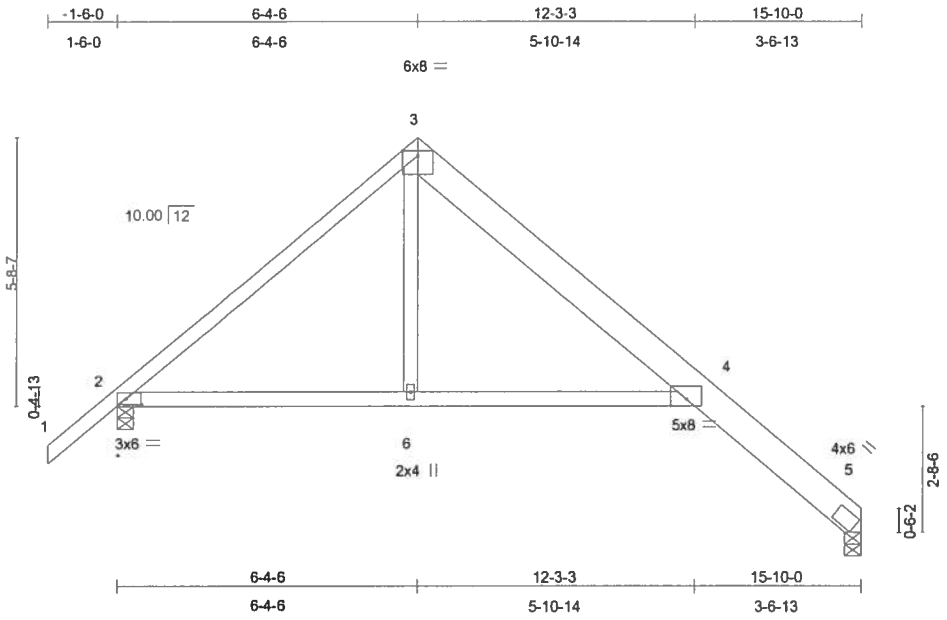

Plate Offsets (X,Y): [2:0-4-1,0-1-8], [3:0-9-7,8-11-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.21	4-6	>885	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.38	4-6	>485	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.27	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 80 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 3-5 2 X 8 SYP No.1D
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 5=499/0-4-0, 2=592/0-4-0
Max Horz 2=-191(load case 4)
Max Uplift 5=-113(load case 7), 2=-165(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-631/267, 3-4=-492/208, 4-5=-288/178
BOT CHORD 2-6=-40/410, 4-6=-41/406
WEBS 3-6=0/225

JOINT STRESS INDEX
2 = 0.65, 3 = 0.54, 3 = 0.00, 4 = 0.53 and 6 = 0.16

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901177
L256809	T32	SPECIAL	1	1	Job Reference (optional)

NOTES

5) Bearing at joint(s) 5 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 capable of withstanding 113 lb uplift at joint 5 and 165 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901178
L256809	T33	SPECIAL	1	2	Job Reference (optional)

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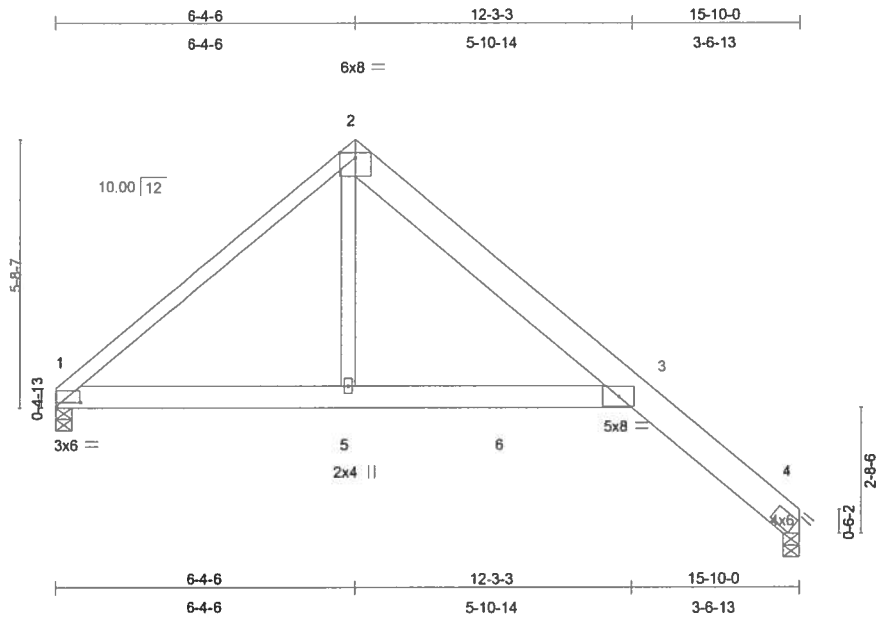

Plate Offsets (X,Y): [1:0-6-2,0-1-2], [1:0-0-5,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.14	3-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.26	3-5	>717	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.19	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 175 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* 2-4 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP 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 (lb/size) 1=626/0-4-0, 4=796/0-4-0
Max Horz 1=-215(load case 3)
Max Uplift 1=-127(load case 5), 4=-201(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-917/215, 2-3=-717/178, 3-4=-477/158
BOT CHORD 1-5=-98/632, 5-6=-97/620, 3-6=-97/620
WEBS 2-5=-58/401

JOINT STRESS INDEX
1 = 0.51, 1 = 0.00, 2 = 0.17, 3 = 0.67 and 5 = 0.14

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 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.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901178
L256809	T33	SPECIAL	1	**2**	Job Reference (optional)

NOTES
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Bearing at joint(s) 4 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 127 lb uplift at joint 1 and 201 lb uplift at joint 4.
9) Girder carries tie-in span(s): 12-0-0 from 9-6-8 to 13-6-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-4=-67, 1-6=-10, 3-6=-165(F=-155)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901179
L256809	T34	COMMON	3	1	Job Reference (optional)

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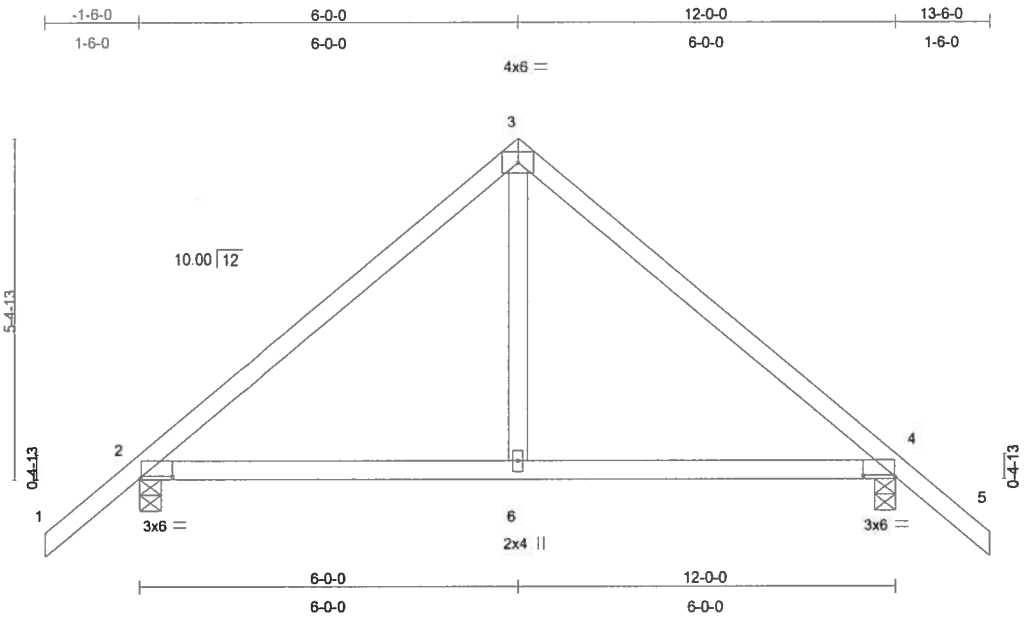

Plate Offsets (X,Y): [2:0-6-3,0-0-6], [4:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	0.03	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	-0.04	2-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 55 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 2=463/0-4-0, 4=463/0-4-0
Max Horz 2=-139(load case 4)
Max Uplift 2=-150(load case 6), 4=-150(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-421/173, 3-4=-421/173, 4-5=0/52
BOT CHORD 2-6=-6/245, 4-6=-6/245
WEBS 3-6=0/204

JOINT STRESS INDEX
2 = 0.70, 3 = 0.62, 4 = 0.70 and 6 = 0.14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901179
L256809	T34	COMMON	3	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 150 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901180
L256809	T34G	GABLE	1	1	Job Reference (optional)

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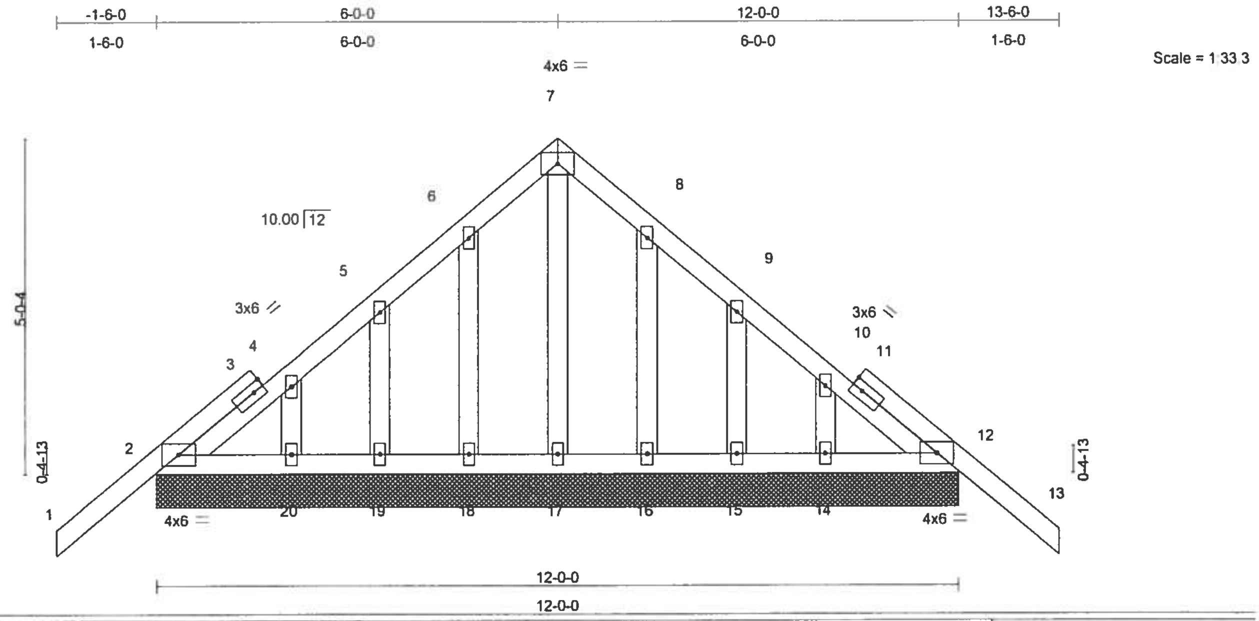

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	13	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 78 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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 (lb/size) 2=213/12-0-0, 12=213/12-0-0, 17=76/12-0-0, 18=96/12-0-0, 19=104/12-0-0, 20=90/12-0-0, 16=96/12-0-0, 15=104/12-0-0, 14=90/12-0-0
Max Horz 2=-169(load case 4)
Max Uplift 2=-131(load case 6), 12=-150(load case 7), 18=-73(load case 6), 19=-113(load case 6), 20=-46(load case 7), 16=-68(load case 7), 15=-115(load case 7), 14=-41(load case 6)
Max Grav 2=213(load case 1), 12=213(load case 1), 17=110(load case 7), 18=99(load case 10), 19=104(load case 1), 20=90(load case 1), 16=99(load case 11), 15=104(load case 1), 14=90(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-123/98, 3-4=-118/105, 4-5=-91/96, 5-6=-47/105, 6-7=-46/141, 7-8=-46/141, 8-9=-47/90, 9-10=-45/39, 10-11=-65/53, 11-12=-71/46, 12-13=0/60
BOT CHORD 2-20=-16/163, 19-20=-16/163, 18-19=-16/163, 17-18=-16/163, 16-17=-16/163, 15-16=-16/163, 14-15=-16/163, 12-14=-16/163
WEBS 7-17=-103/0, 6-18=-86/83, 5-19=-88/115, 4-20=-81/61, 8-16=-86/79, 9-15=-88/115, 10-14=-81/57

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JOINT STRESS INDEX
2 = 0.61, 3 = 0.00, 3 = 0.15, 4 = 0.04, 5 = 0.06, 6 = 0.05, 7 = 0.08, 8 = 0.05, 9 = 0.06, 10 = 0.04, 11 = 0.00, 11 = 0.15, 12 = 0.61, 14 = 0.03, 15 = 0.06, 16 = 0.05, 17 = 0.03, 18 = 0.05, 19 = 0.06 and 20 = 0.03

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901180
L256809	T34G	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2, 150 lb uplift at joint 12, 73 lb uplift at joint 18, 113 lb uplift at joint 19, 46 lb uplift at joint 20, 68 lb uplift at joint 16, 115 lb uplift at joint 15 and 41 lb uplift at joint 14.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) Gable truss supports 12" max. rake gable overhang.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-64(F=-10), 7-13=-64(F=-10), 2-12=-10

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901181
L256809	T35	COMMON	4	1	Job Reference (optional)

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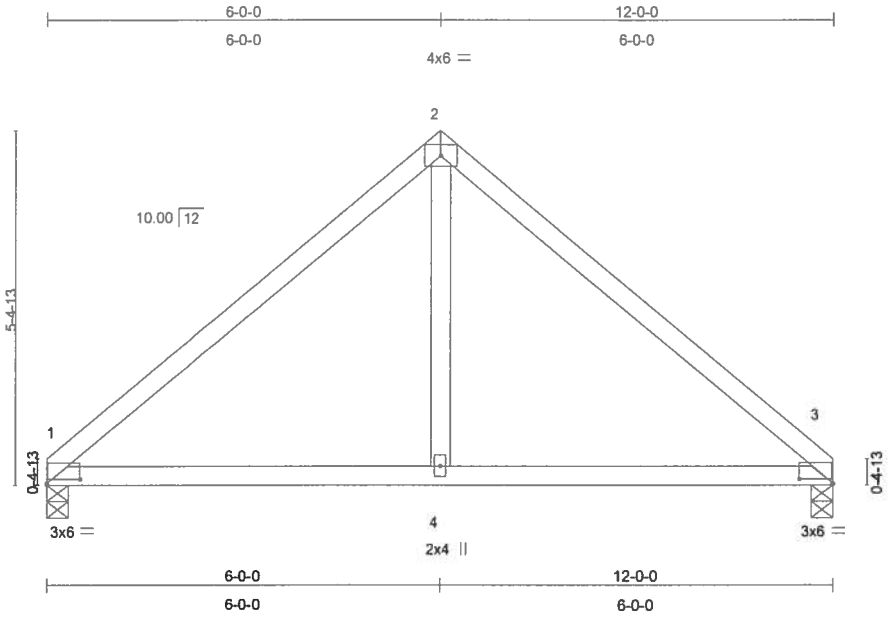

Plate Offsets (X,Y): [1:0-6-3,0-0-14], [3:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	0.04	1-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	1-4	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 1=373/0-4-0, 3=373/0-4-0
Max Horz 1=-141(load case 4)
Max Uplift 1=-73(load case 6), 3=-73(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-444/215, 2-3=-444/215
BOT CHORD 1-4=-45/268, 3-4=-45/268
WEBS 2-4=-19/210

JOINT STRESS INDEX
1 = 0.72, 2 = 0.70, 3 = 0.72 and 4 = 0.15

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 1 and 73 lb uplift at joint 3.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901182
L256809	T36	MONO HIP	1	1	Job Reference (optional)

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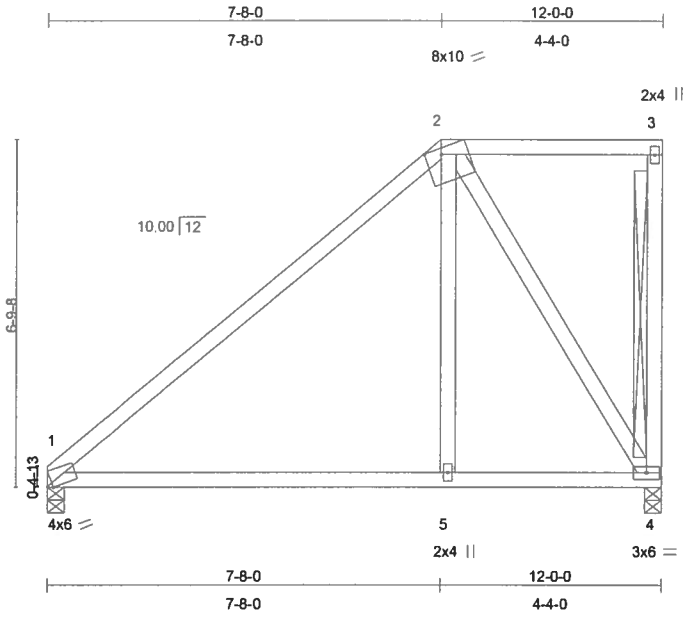

Plate Offsets (X,Y): [1:0-1-3,Edge], [2:0-3-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.13	1-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.17	1-5	>832	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 69 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-4
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=374/0-4-0, 4=374/0-4-0
Max Horz 1=208(load case 6)
Max Uplift 1=-37(load case 6), 4=-121(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-396/69, 2-3=-7/7, 3-4=-51/76
BOT CHORD 1-5=-192/208, 4-5=-192/210
WEBS 2-5=-14/229, 2-4=-391/365

JOINT STRESS INDEX
1 = 0.81, 2 = 0.76, 3 = 0.32, 4 = 0.22 and 5 = 0.16

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901182
L256809	T36	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 121 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901183
L256809	T37	MONO HIP	1	1	Job Reference (optional)

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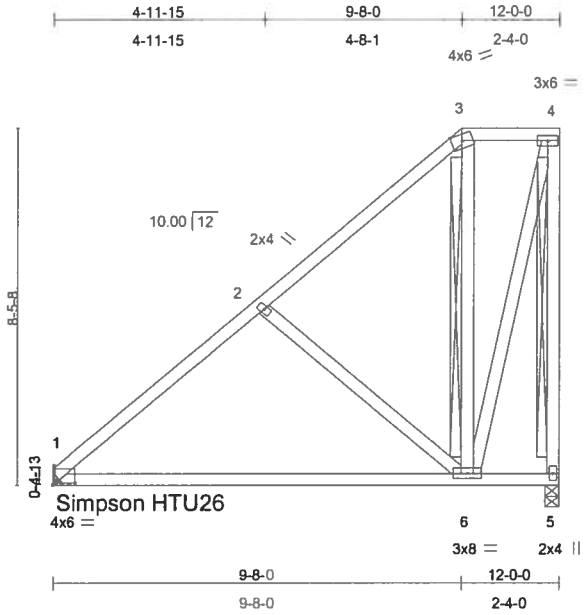

Scale = 1:52.7

Plate Offsets (X,Y): [1:0-6-7,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.16	1-6	>853	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.30	1-6	>463	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.39	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 85 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-5, 3-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=375/Mechanical, 5=375/0-4-0
Max Horz 1=262(load case 6)
Max Uplift 1=-10(load case 6), 5=-171(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-408/28, 2-3=-219/7, 3-4=-95/79, 4-5=-405/320
BOT CHORD 1-6=-299/272, 5-6=-2/1
WEBS 2-6=-229/283, 3-6=-121/177, 4-6=-319/386

JOINT STRESS INDEX
1 = 0.68, 2 = 0.16, 3 = 0.42, 4 = 0.38, 5 = 0.20 and 6 = 0.49

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901183
L256809	T37	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 171 lb uplift at joint 5.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901184
L256809	T38	MONO HIP	1	1	Job Reference (optional)

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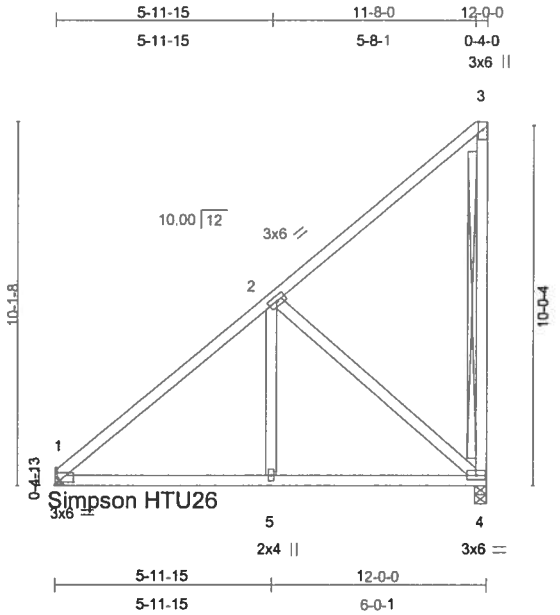

Plate Offsets (X,Y): [1:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.05	1-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	-0.05	1-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.35	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 74 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-4
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=375/Mechanical, 4=375/0-4-0
Max Horz 1=319(load case 6)
Max Uplift 4=-239(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-439/0, 2-3=-130/75, 3-4=-128/165
BOT CHORD 1-5=-272/265, 4-5=-272/265
WEBS 2-5=0/207, 2-4=-339/348

JOINT STRESS INDEX
1 = 0.67, 2 = 0.19, 3 = 0.27, 4 = 0.17 and 5 = 0.15

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901184
L256809	T38	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901185
L256809	T39	MONO HIP	1	1	Job Reference (optional)

Scale = 1:54.6

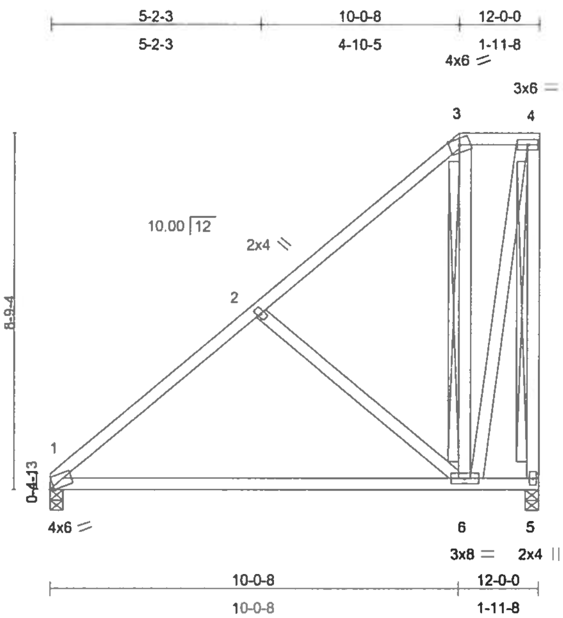

Plate Offsets (X,Y): [1:0-1-3,Edge]

LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.19	1-6	>752	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.34	1-6	>408	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.43	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 87 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-5, 3-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=374/0-4-0, 5=374/0-4-0
Max Horz 1=272(load case 6)
Max Uplift 1=-3(load case 6), 5=-182(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-401/9, 2-3=-205/0, 3-4=-82/67, 4-5=-418/318
BOT CHORD 1-6=-295/265, 5-6=-2/1
WEBS 2-6=-238/294, 3-6=-134/197, 4-6=-334/413

JOINT STRESS INDEX
1 = 0.74, 2 = 0.16, 3 = 0.45, 4 = 0.28, 5 = 0.21 and 6 = 0.46

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901186
L256809	T40	MONO HIP	1	1	Job Reference (optional)

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 129 lb uplift at joint 4.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901187
L256809	T41	HIP	1	1	Job Reference (optional)

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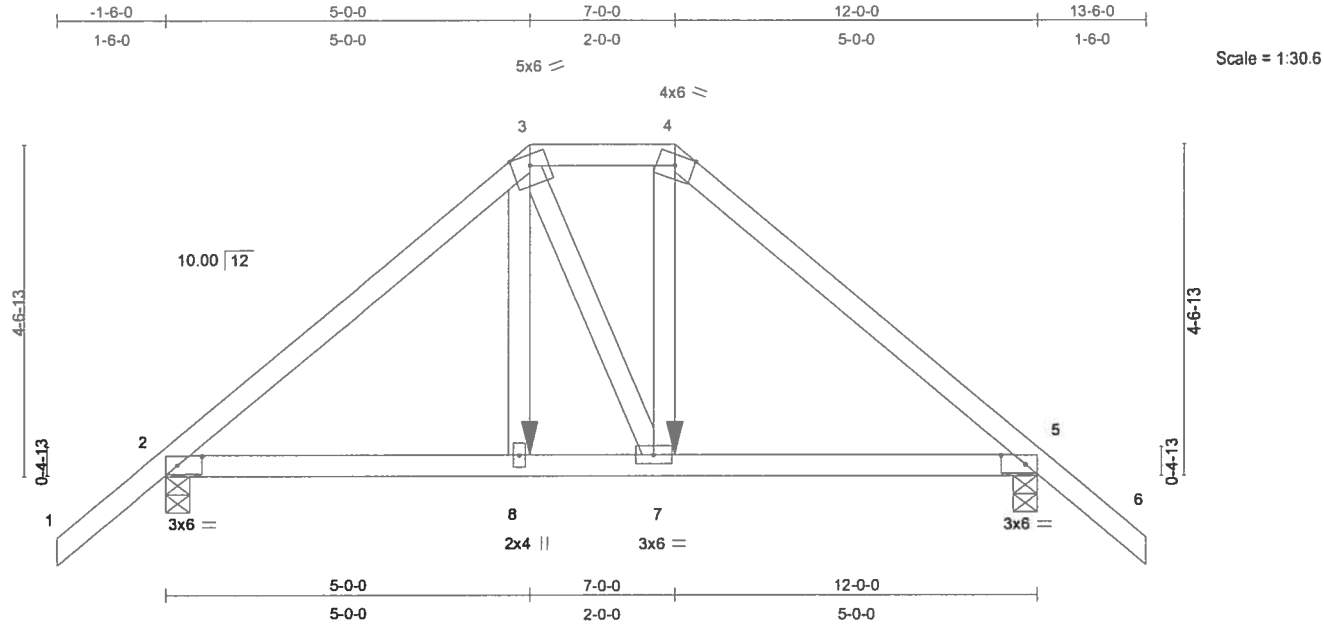

Plate Offsets (X,Y): [2:0-4-1,0-1-8], [5:0-4-1,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.02	5-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.03	5-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 65 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 2=698/0-4-0, 5=688/0-4-0
Max Horz 2=116(load case 4)
Max Uplift 2=-328(load case 5), 5=-321(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-780/346, 3-4=-518/300, 4-5=-766/337, 5-6=0/52
BOT CHORD 2-8=-256/520, 7-8=-251/513, 5-7=-198/510
WEBS 3-7=-123/115, 4-7=-204/291, 3-8=-138/231

JOINT STRESS INDEX
2 = 0.57, 3 = 0.32, 4 = 0.34, 5 = 0.56, 7 = 0.19 and 8 = 0.17

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 2 and 321 lb uplift at joint 5.
7) Girder carries hip end with 5-0-0 end setback.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901187
L256809	T41	HIP	1	1	Job Reference (optional)

NOTES

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-90(F=-36), 4-6=-54, 2-8=-10, 7-8=-17(F=-7), 5-7=-10

Concentrated Loads (lb)

Vert: 7=-187(F) 8=-187(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901188
L256809	T42	COMMON	5	1	Job Reference (optional)

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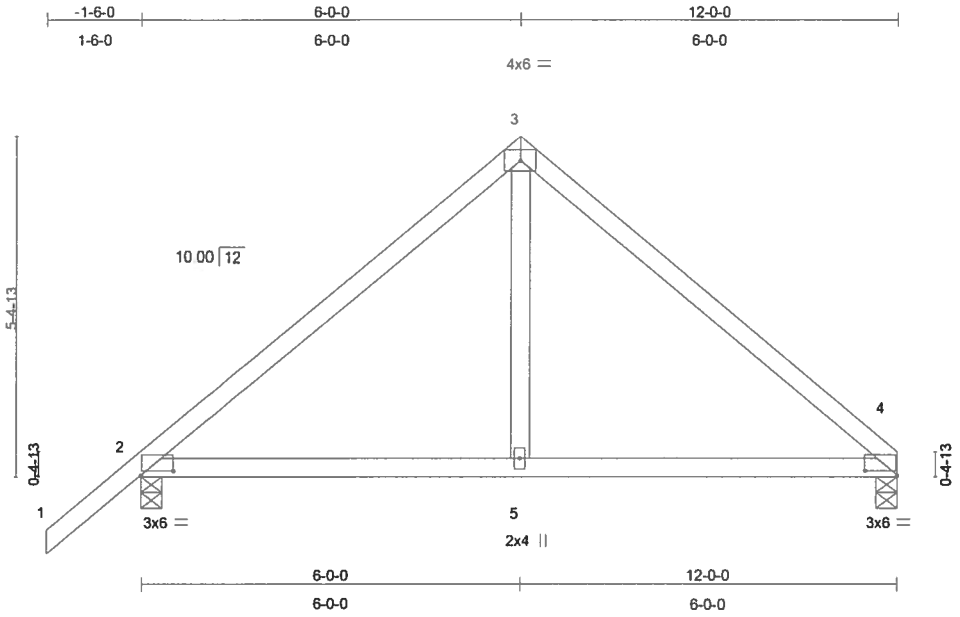

Plate Offsets (X,Y): [2:0-6-3,0-0-14], [4:0-6-3,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.04	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.06	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 52 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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 (lb/size) 4=367/0-4-0, 2=470/0-4-0
Max Horz 2=163(load case 5)
Max Uplift 4=-72(load case 7), 2=-151(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-434/198, 3-4=-431/191
BOT CHORD 2-5=-35/257, 4-5=-35/257
WEBS 3-5=0/207

JOINT STRESS INDEX
2 = 0.72, 3 = 0.66, 4 = 0.72 and 5 = 0.15

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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October 15,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901188
L256809	T42	COMMON	5	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 151 lb uplift at joint 2.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901189
L256809	T43	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Oct 15 12:25:26 2007 Page 1

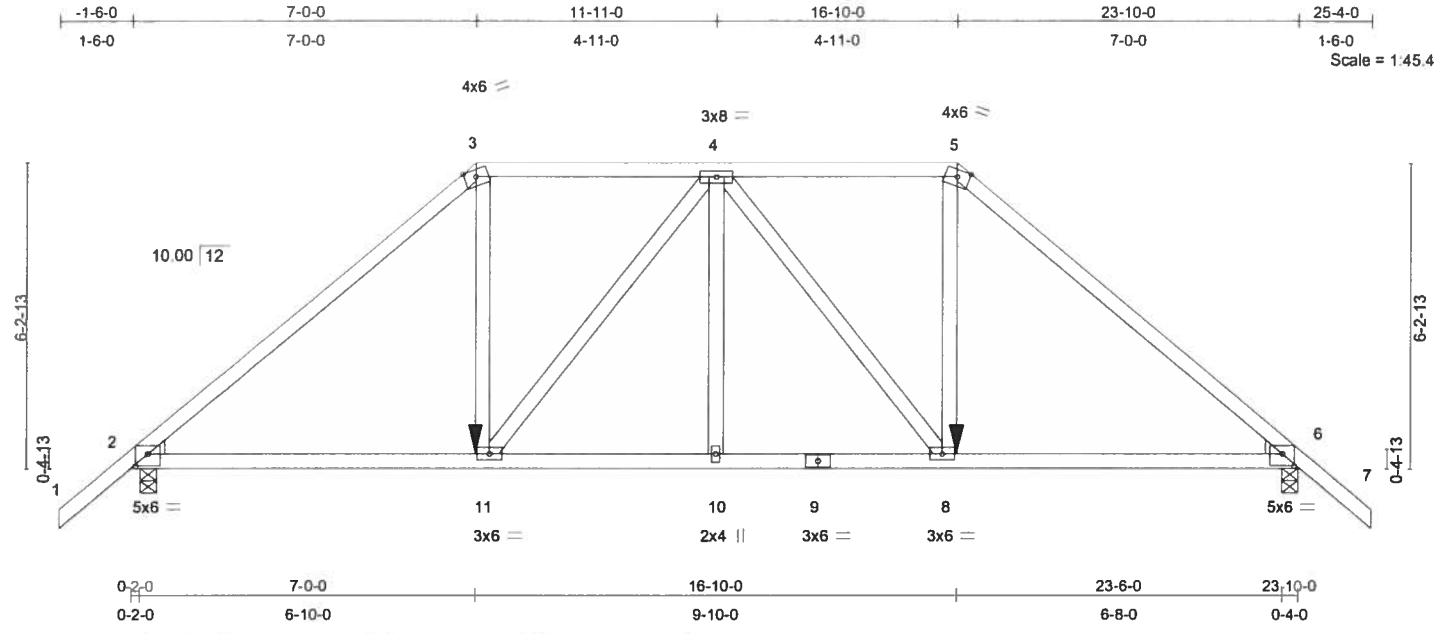

Plate Offsets (X,Y): [2:0-3-0,0-2-15], [4:0-0-0,0-0-0], [6:0-3-0,0-2-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.79	Vert(LL)	0.11	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.15	10-11	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.06	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-5 oc bracing.

REACTIONS (lb/size) 2=1622/0-4-0, 6=1622/0-4-0
Max Horz 2=162(load case 4)
Max Uplift 2=-811(load case 5), 6=-811(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-2171/1139, 3-4=-1578/940, 4-5=-1578/940, 5-6=-2171/1139, 6-7=0/52
BOT CHORD 2-11=-910/1554, 10-11=-1050/1833, 9-10=-1050/1833, 8-9=-1050/1833, 6-8=-799/1554
WEBS 3-11=-643/998, 4-11=-502/375, 4-8=-502/375, 5-8=-642/998, 4-10=-208/352

JOINT STRESS INDEX
2 = 0.66, 2 = 0.00, 3 = 0.78, 4 = 0.57, 5 = 0.78, 6 = 0.66, 6 = 0.00, 8 = 0.65, 9 = 0.75, 10 = 0.34 and 11 = 0.65

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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Builders FirstSource

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 811 lb uplift at joint 2 and 811 lb uplift at joint 6.
7) Girder carries hip end with 7-0-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-54, 3-5=-72(F=-18), 5-7=-54, 2-11=-10, 8-11=-69(F=-59), 6-8=-10
   Concentrated Loads (lb)
      Vert: 11=-411(F) 8=-411(F)

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901190
L256809	T44	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:40:17 2007 Page 1

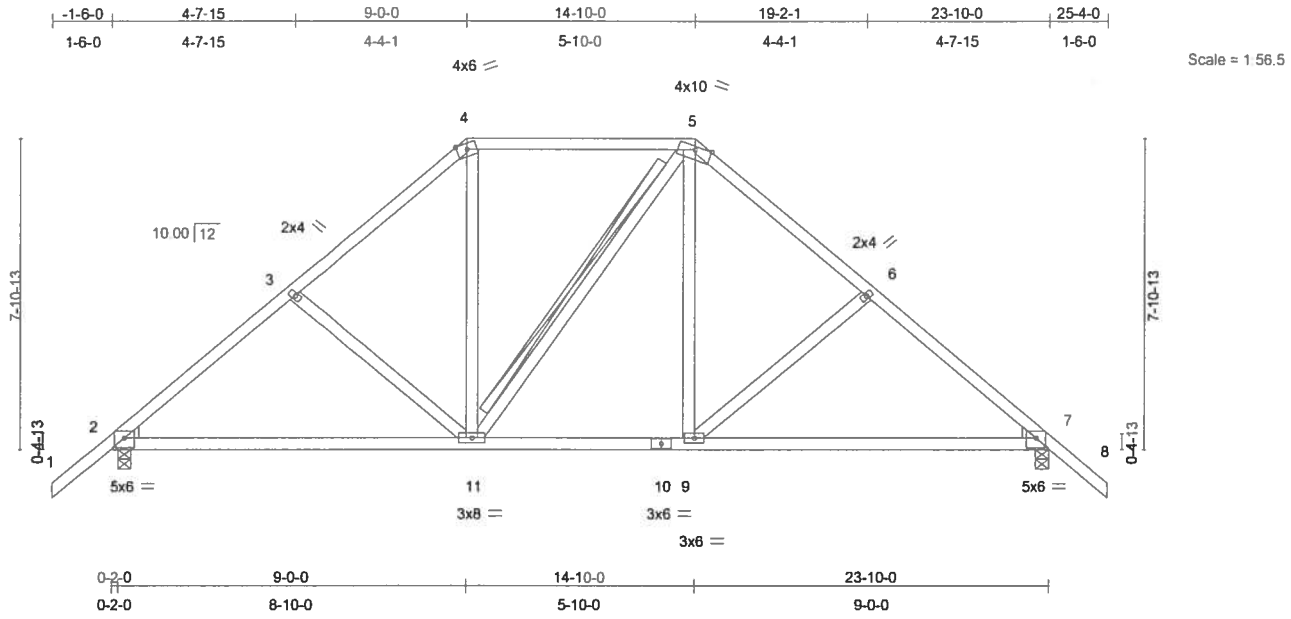

Plate Offsets (X,Y): [2:0-3-0,0-2-15], [7:0-3-0,0-2-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.15	7-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.27	7-9	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP 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.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-11
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=842/0-4-0, 7=842/0-4-0
Max Horz 2=209(load case 5)
Max Uplift 2=-213(load case 6), 7=-213(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-981/458, 3-4=-798/449, 4-5=-561/420, 5-6=-798/449, 6-7=-981/458, 7-8=0/52
BOT CHORD 2-11=-225/683, 10-11=-69/561, 9-10=-69/561, 7-9=-166/683
WEBS 3-11=-164/205, 4-11=-87/263, 5-11=-112/113, 5-9=-87/264, 6-9=-165/205

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JOINT STRESS INDEX
2 = 0.64, 2 = 0.00, 3 = 0.33, 4 = 0.50, 5 = 0.82, 6 = 0.33, 7 = 0.64, 7 = 0.00, 9 = 0.34, 10 = 0.37 and 11 = 0.56

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901190
L256809	T44	HIP	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2 and 213 lb uplift at joint 7.

LOAD CASE(S) Standard

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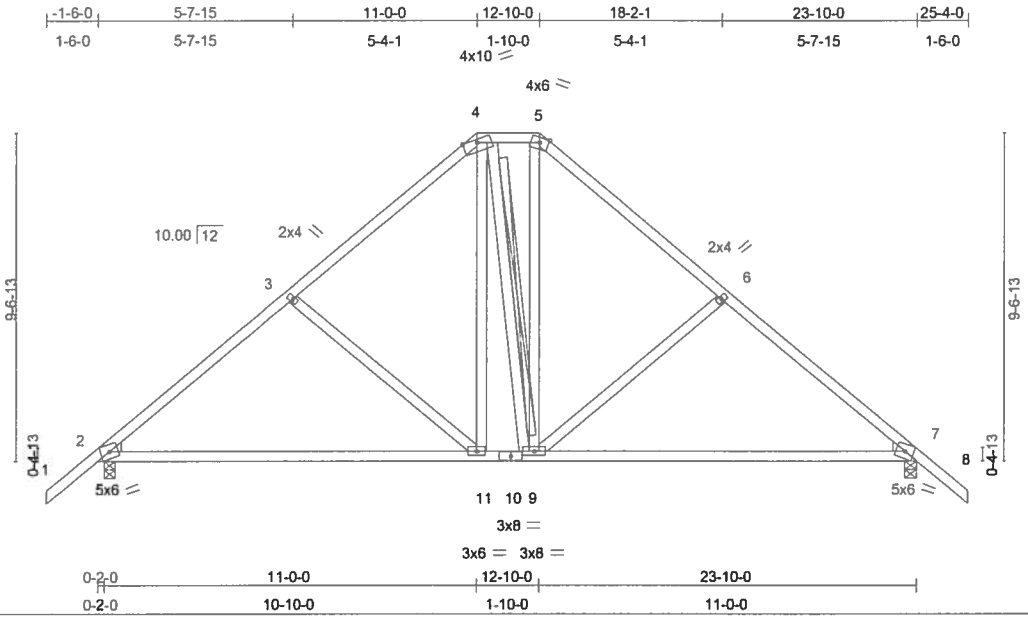
Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901191
L256809	T45	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:40:18 2007 Page 1



Scale = 1:64.8

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.28	2-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.51	2-11	>558	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 149 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP 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.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=842/0-4-0, 7=842/0-4-0
Max Horz 2=-256(load case 4)
Max Uplift 2=-220(load case 6), 7=-230(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-964/445, 3-4=-734/429, 4-5=-489/415, 5-6=-734/429, 6-7=-965/445, 7-8=0/52
BOT CHORD 2-11=-192/667, 10-11=-70/486, 9-10=-70/486, 7-9=-142/667
WEBS 3-11=-245/278, 4-11=-138/256, 4-9=-180/179, 5-9=-133/250, 6-9=-241/275

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JOINT STRESS INDEX
2 = 0.71, 2 = 0.00, 3 = 0.33, 4 = 0.87, 5 = 0.55, 6 = 0.33, 7 = 0.71, 7 = 0.00, 9 = 0.57, 10 = 0.74 and 11 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901191
L256809	T45	HIP	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 2 and 230 lb uplift at joint 7.

LOAD CASE(S) Standard

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October 15,2007

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901192
L256809	T46	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 15 08:40:19 2007 Page 1

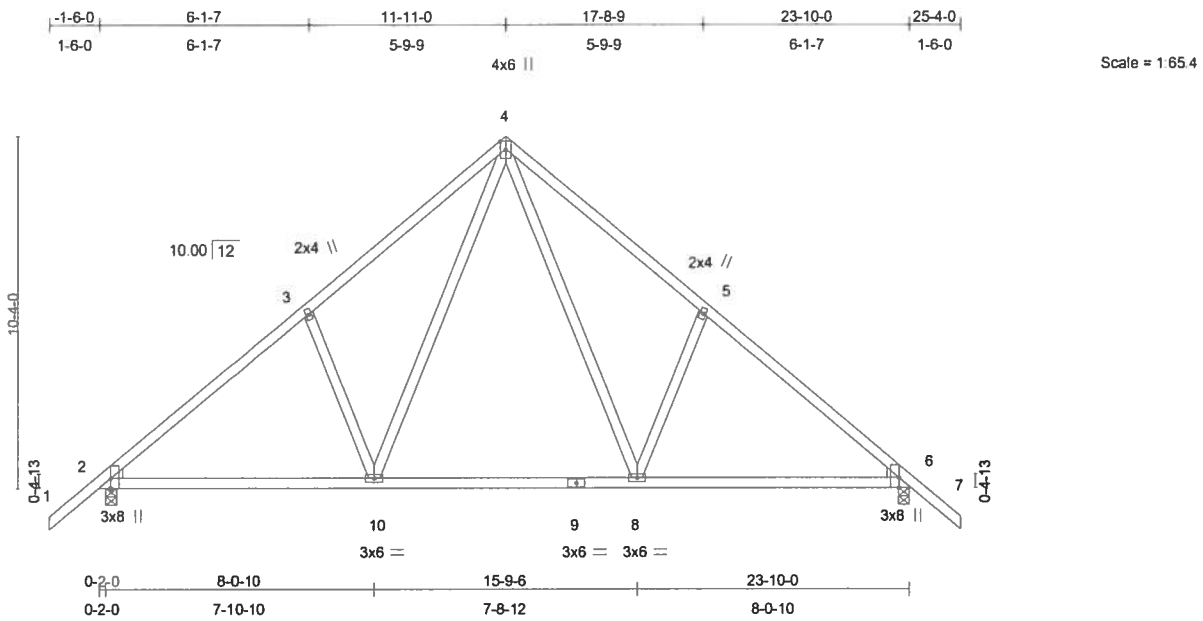

Plate Offsets (X,Y): [2:0-3-8,Edge], [6:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.08	2-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.16	2-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.53	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 136 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP 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 (lb/size) 2=842/0-4-0, 6=842/0-4-0
Max Horz 2=-276(load case 4)
Max Uplift 2=-222(load case 6), 6=-222(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-974/423, 3-4=-848/556, 4-5=-848/556, 5-6=-974/423, 6-7=0/52
BOT CHORD 2-10=-167/663, 9-10=-41/448, 8-9=-41/448, 6-8=-118/663
WEBS 3-10=-268/308, 4-10=-261/361, 4-8=-261/361, 5-8=-268/308

JOINT STRESS INDEX
2 = 0.58, 2 = 0.00, 3 = 0.33, 4 = 0.68, 5 = 0.33, 6 = 0.58, 6 = 0.00, 8 = 0.47, 9 = 0.16 and 10 = 0.47

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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October 15,2007

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE / ZAC COOK / ROOF J1901192
L256809	T46	COMMON	3	1	Job Reference (optional)

NOTES

3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 2 and 222 lb uplift at joint 6.

LOAD CASE(S) Standard

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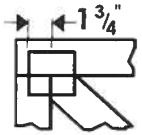
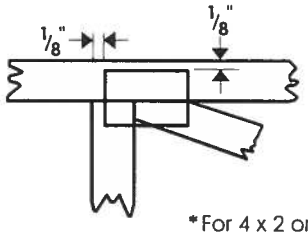
October 15,2007

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

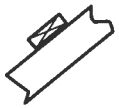
*This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

4 x 4

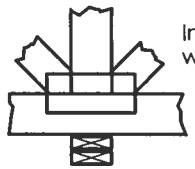
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



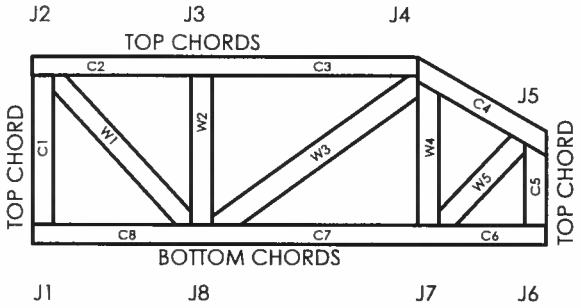
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

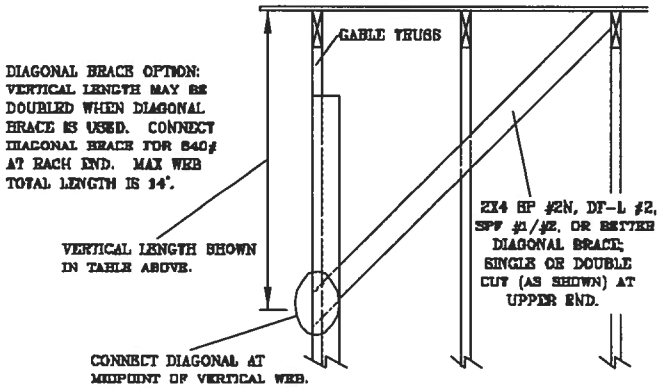
Failure to Follow Could Cause Property Damage or Personal Injury

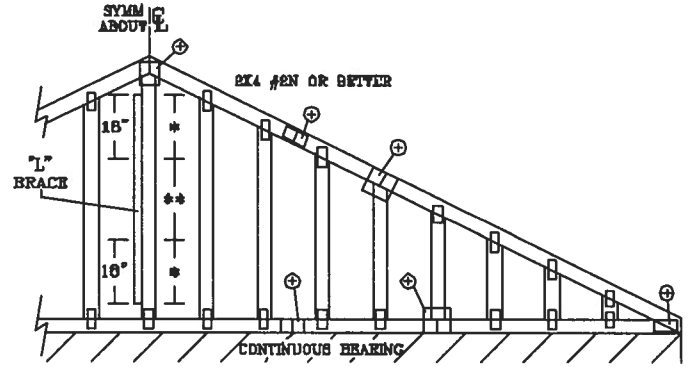
1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 4"	5' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 8"	10' 10"	11' 2"	12' 11"	13' 3"
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"
		STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 5"	11' 5"
	SP DFL	#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"
16" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 8"	12' 6"	12' 9"	14' 0"	14' 0"
		#3	3' 8"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 6"	9' 11"	12' 6"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 6"	10' 8"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 11"	5' 11"	7' 10"	7' 10"	10' 5"	10' 5"	12' 3"	12' 3"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 2"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	12' 6"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#2
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR, SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1466 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	5' 8"	6' 8"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	5' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 6"	5' 8"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 5"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 8"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 8"
		STUD	3' 3"	4' 6"	4' 8"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 8"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 8"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 8"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 6"	11' 6"	11' 6"	14' 0"	14' 0"
		STUD	3' 9"	5' 6"	5' 8"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 10"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	8' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	8' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	6' 5"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 5"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 6"	5' 6"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

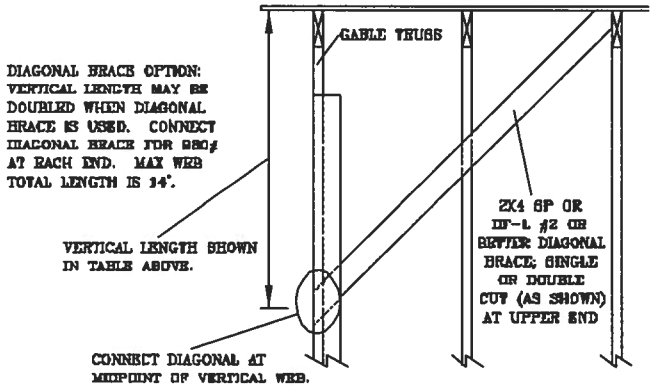
SOUTHERN PINE
#3
STUD
STANDARD

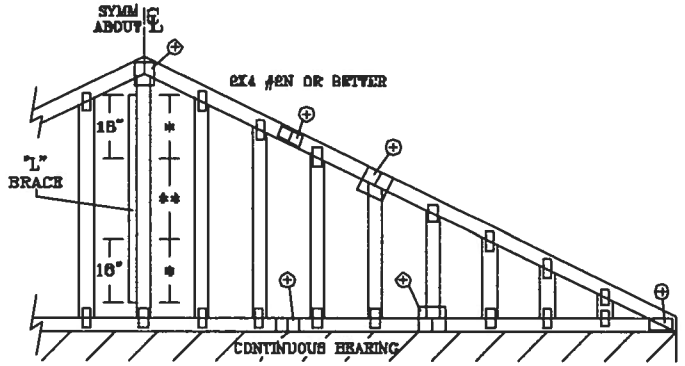
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#2
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

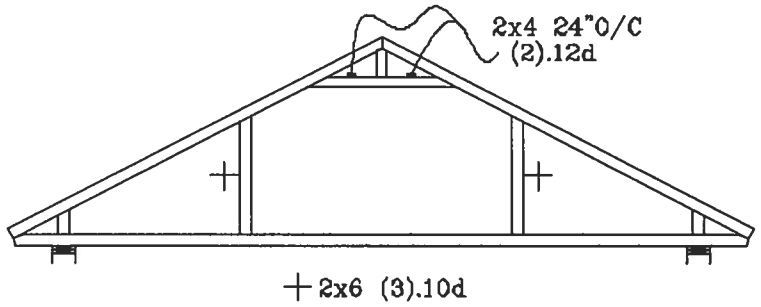
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

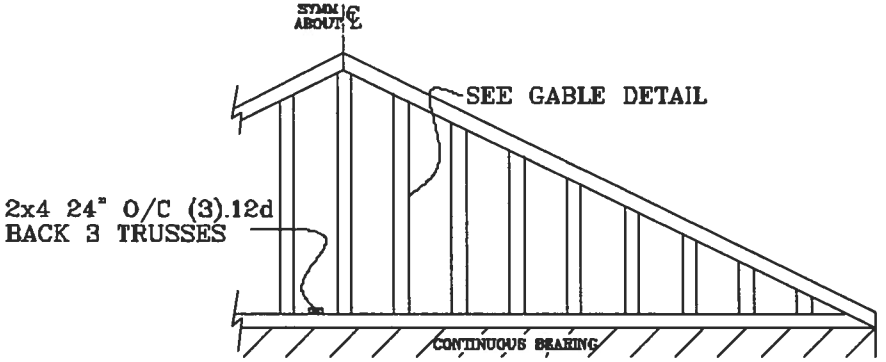
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MTEK STD GABLE 90' 2 M7
-ENG

TYPICAL ATTIC TRUSS BRACING

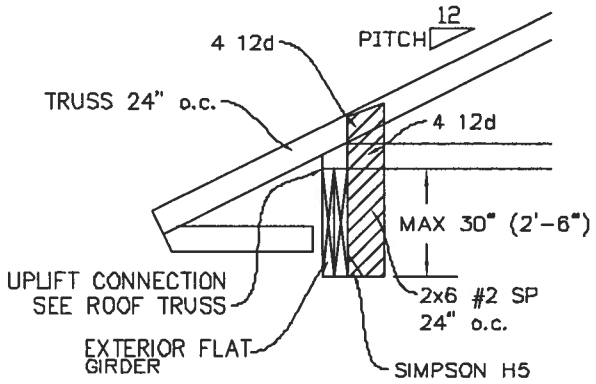


GABLE END TRUSS DETAIL

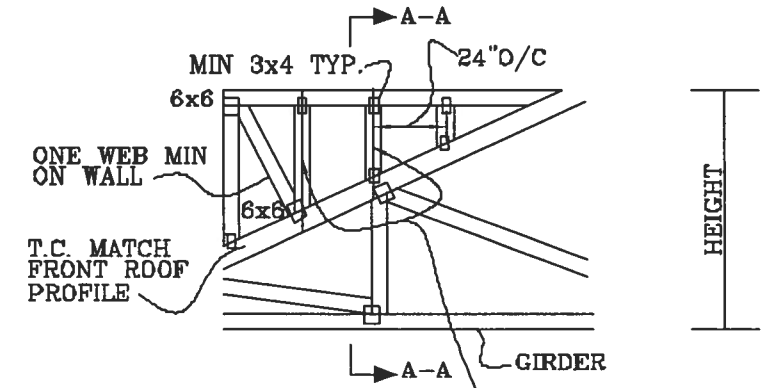


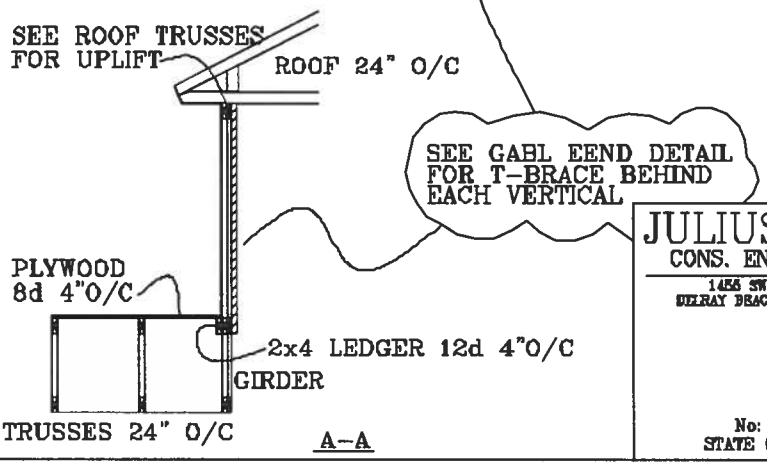
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





A-A

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

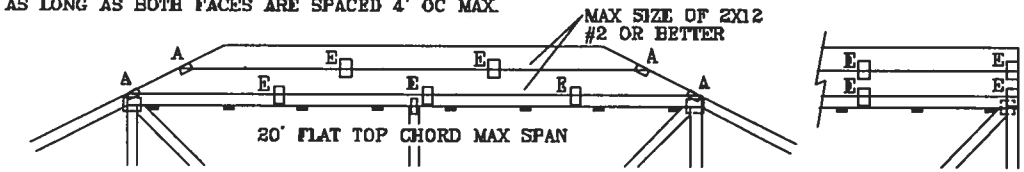
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

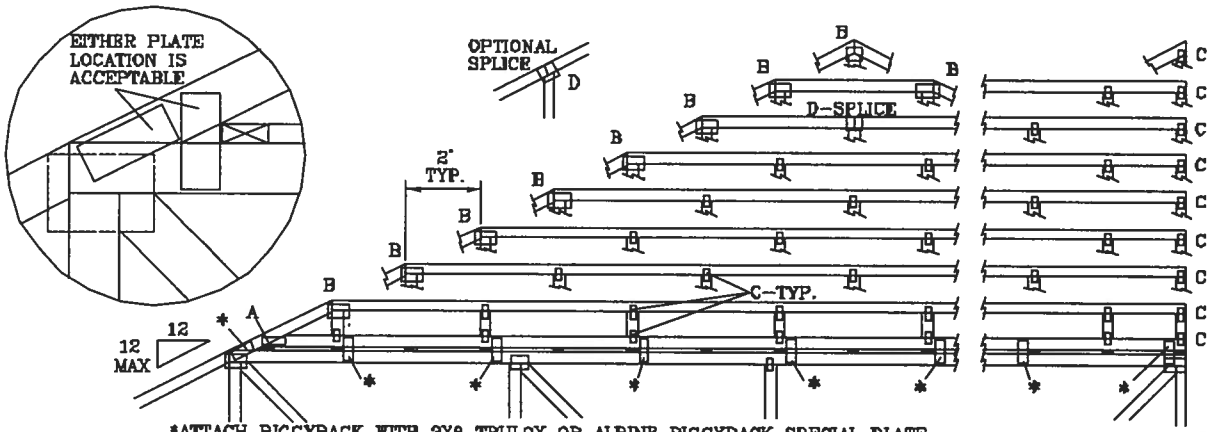
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.





*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

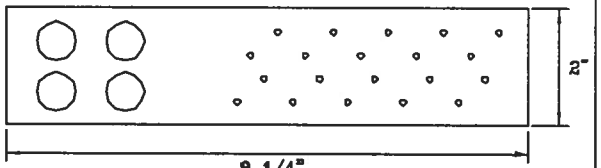
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X8	5X8	5X8	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X5	6X5	5X8
E	4X8 OR 3X8 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 834,016 834,017 & 847,045

xxWARNINGxx TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG MITEK STD PIGGY
-ENG JL

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

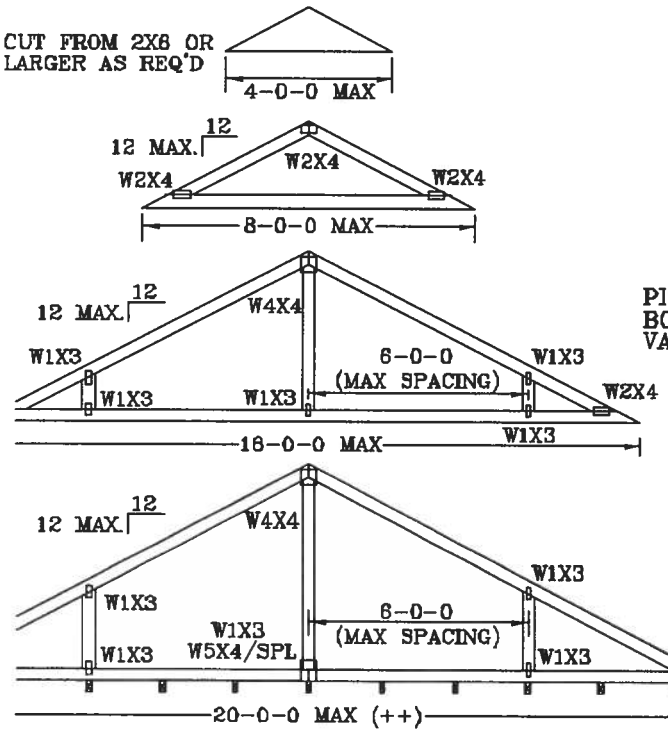
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

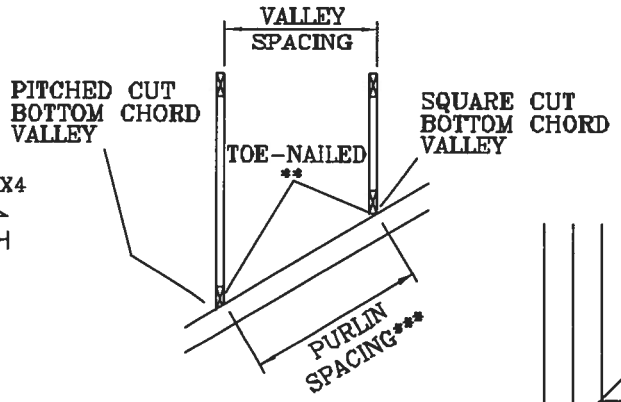
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

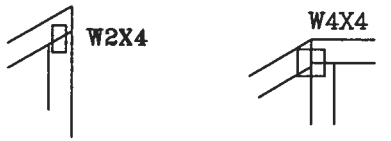
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

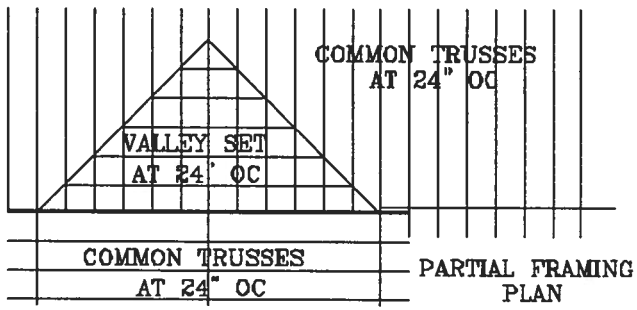
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/03
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DURFAC. 1.25		1.25		
SPACING		24"		

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

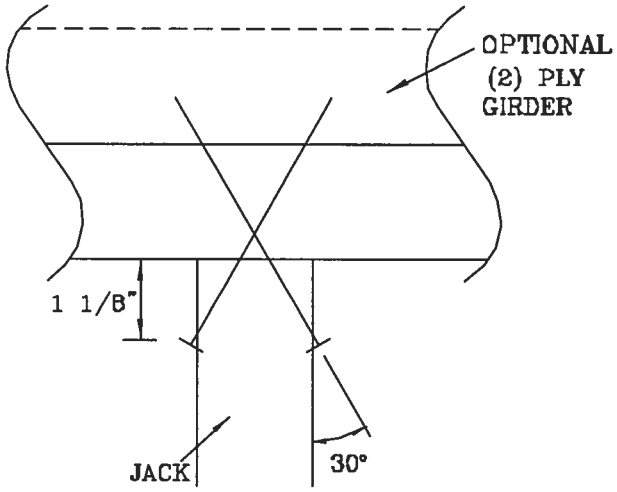
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

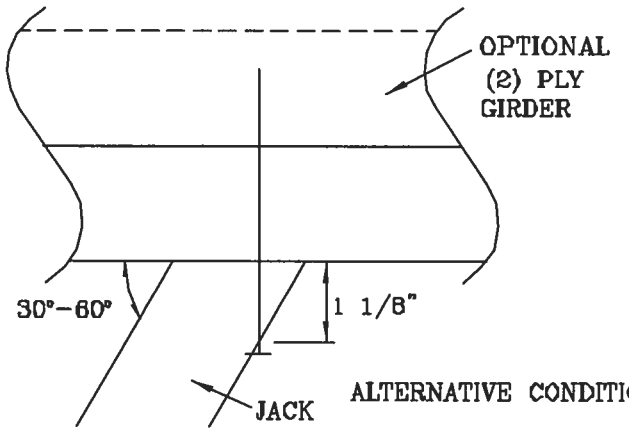
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

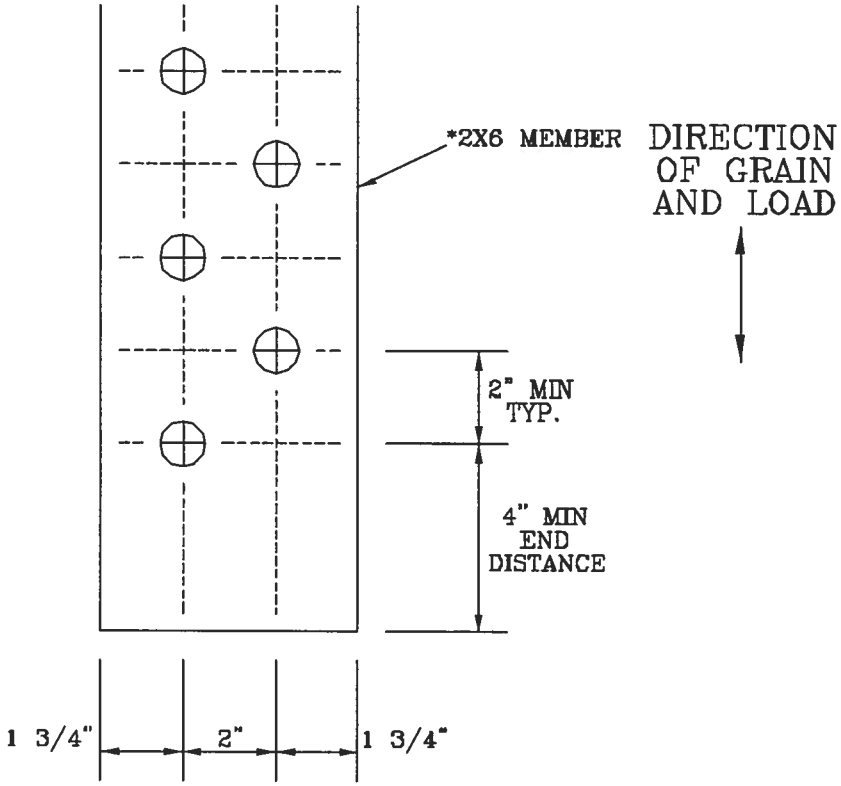
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

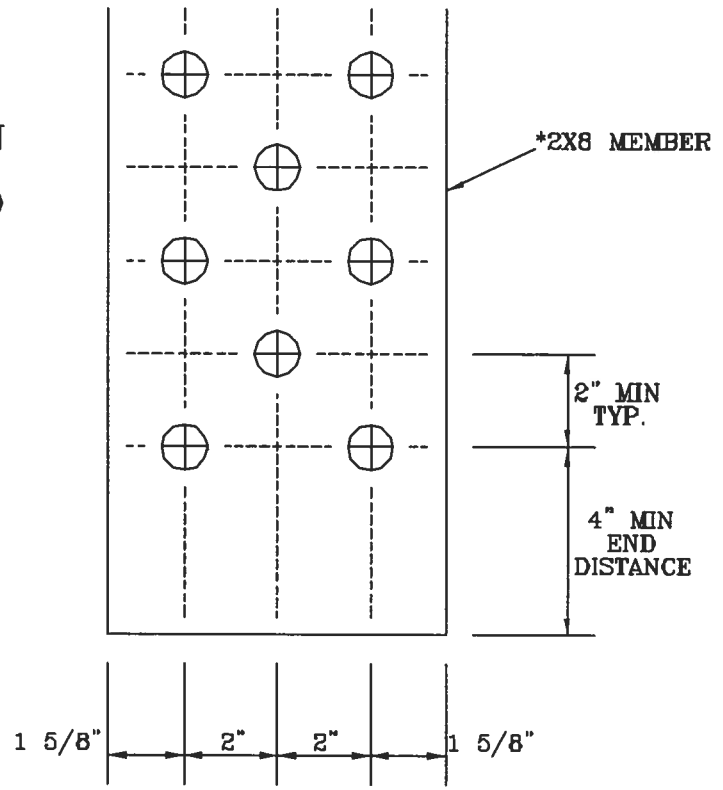
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628,016

---WARNING--- TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

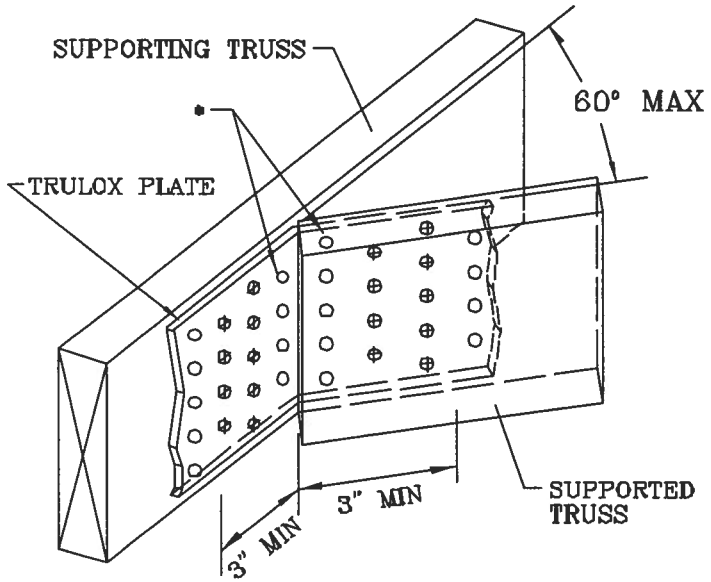
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

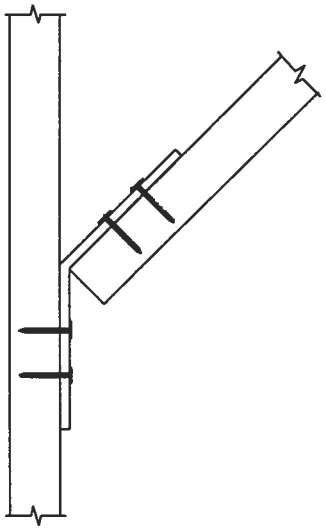
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

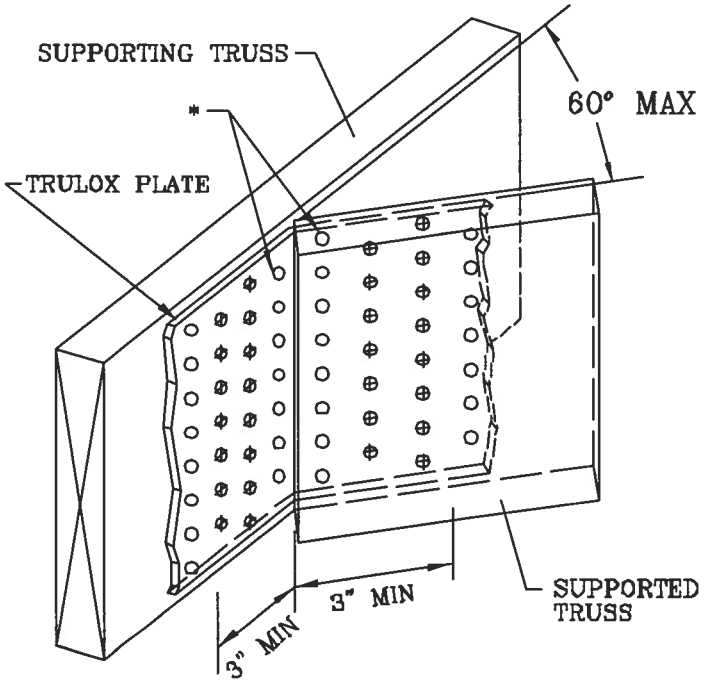
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

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REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL