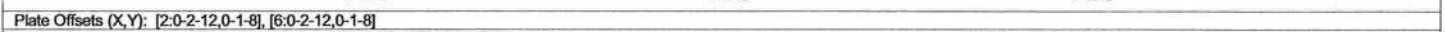


Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 MitTek Industries, Inc. Thu Jul 10 09:27:07 2008 Page 1



LUMBER		BRACING	
TOP CHORD 2 X 4 SYP No.2		TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD 2 X 4 SYP No.2		BOT CHORD	Rigid ceiling directly applied or 3-11-7 oc bracing.
WEBS 2 X 4 SYP No.3			

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=1762/2439, 3-4=1541/2324, 4-5=1541/2324, 5-6=1762/2439, 6-7=0/25
BOT CHORD 2-10=2280/1667, 9-10=1596/1191, 8-9=1596/1191, 6-8=2280/1667
WEBS 3-10=296/234, 4-10=700/395, 4-8=700/395, 5-8=296/234

NOTES (5)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=14ft$; $TCDL=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate gird DOL=1.80. 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 2 and 488 lb uplift at joint 6.
- 5) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job L279547	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES.
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:08 2008 Page 1

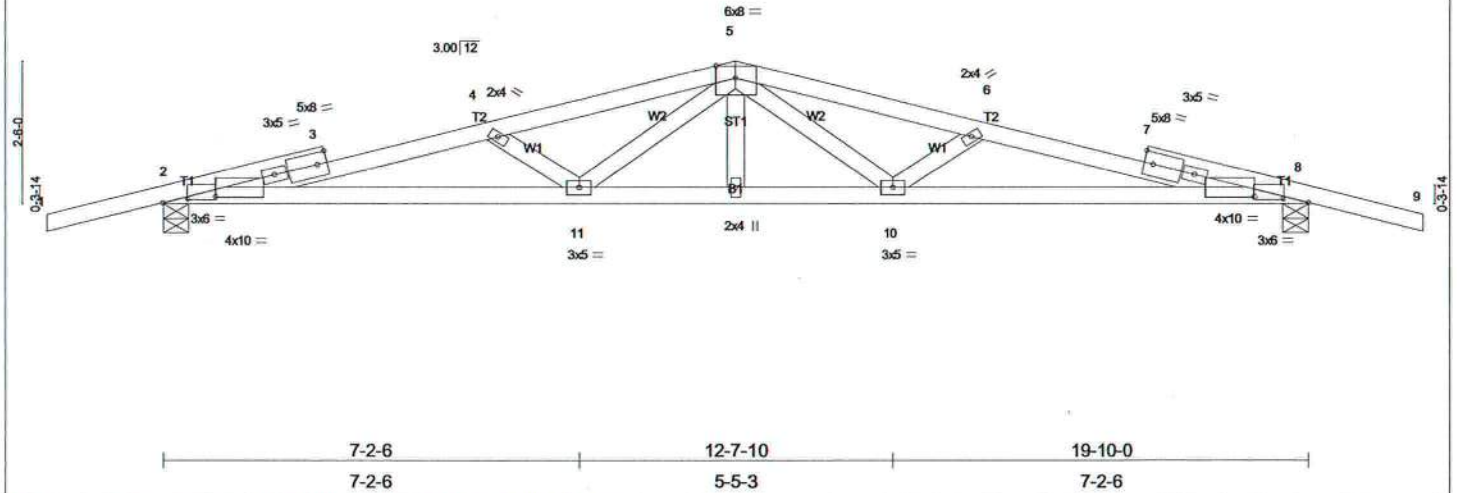
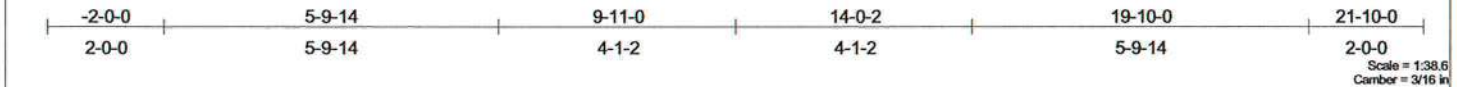


Plate Offsets (X,Y): [2-0-5-4,0-0-12], [2-0-11-4,0-1-4], [8-0-5-4,0-0-12], [8-0-11-4,0-1-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	L/defl	L/d	PLATES	GRIP
TCCL 20.0	Plates Increase	1.25	TC 0.95	Vert(LL)	0.61	10-11	>379	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.72	Vert(TL)	-0.44	10-11	>526	240		
BCCL 10.0	Rep Stress Incr	NO	WB 0.29	Horz(TL)	-0.12	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 89 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.1D "Except"	TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins.
T1 2 X 4 SYP No.2, T1 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 2-10-0 oc bracing.
BOT CHORD 2 X 4 SYP No.2	
WEBS 2 X 4 SYP No.3	
OTHERS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=1038/0-5-8, 8=1038/0-5-8
Max Horz 2=56(load case 5)
Max Uplift 2=909(load case 6), 8=909(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=13/37, 2-3=2975/4186, 3-4=2942/4175, 4-5=2492/3694, 5-6=2492/3694, 6-7=2942/4175, 7-8=2975/4186, 8-9=13/37
BOT CHORD 2-11=4025/2876, 10-11=2521/1830, 8-10=4025/2876
WEBS 4-11=624/726, 5-11=1185/700, 5-10=1185/700, 6-10=624/726

- NOTES** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCCL=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.
 - 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"
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 909 lb uplift at joint 2 and 909 lb uplift at joint 8.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=79(F=25), 5-9=79(F=25), 2-8=10

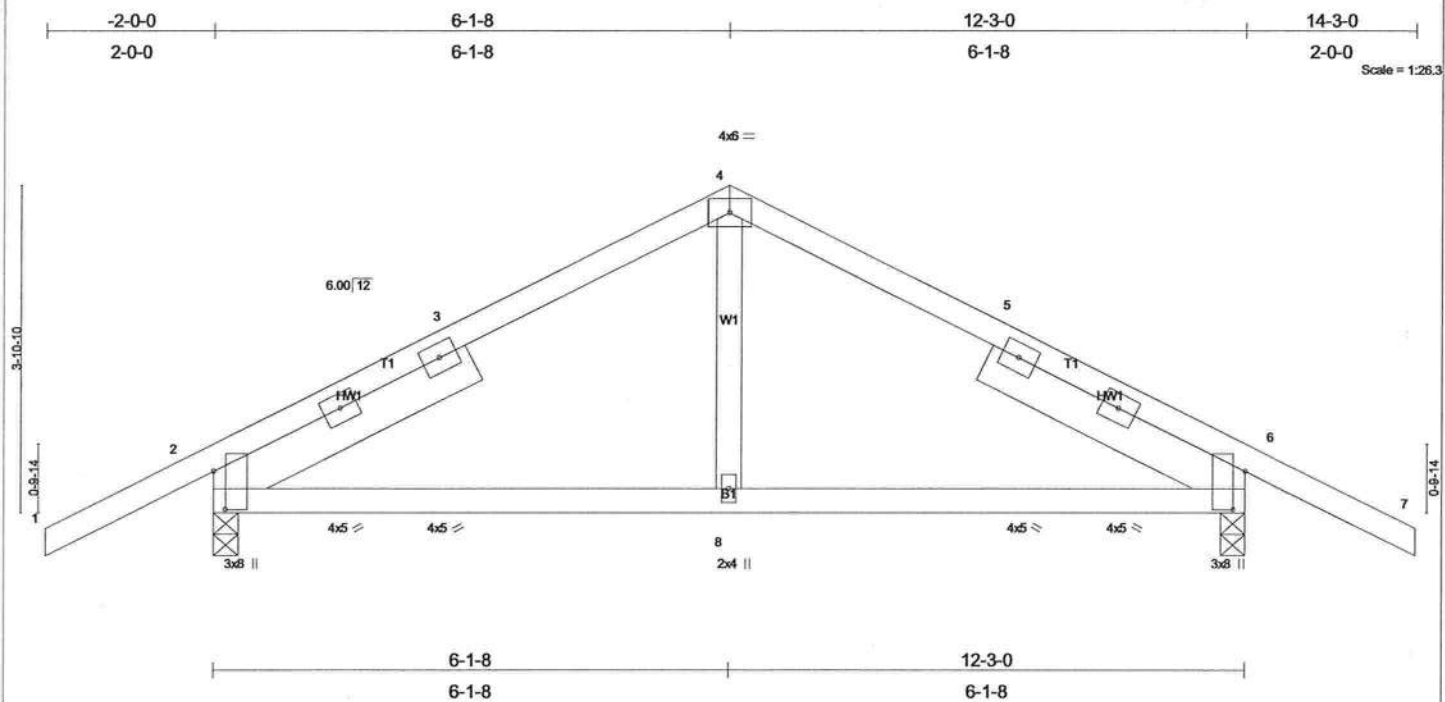


Plate Offsets (X,Y): [2-0-5-7,0-1-11], [6-0-5-7,0-1-11]									
LOADING (psf)	SPACING 2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.22	Vert(LL)	-0.02	2-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.17	Vert(TL)	-0.03	2-8	>999	240		
BCLL 10.0	Rep Stress Incr YES	WB 0.06	Horz(TL)	0.01	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 67 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	
SLIDER Left 2 X 6 SYP No.1D 3-5-3, Right 2 X 6 SYP No.1D 3-5-3	

REACTIONS (lb/size) 2=500/0-3-8, 6=500/0-3-8
Max Horz 2=60(load case 6)
Max Uplift2=175(load case 6), 6=175(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=496/260, 3-4=392/282, 4-5=392/282, 5-6=496/260, 6-7=0/26
BOT CHORD 2-8=80/351, 6-8=80/351
WEBS 4-8=0/188

NOTES (5)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=14ft$; $TCDL=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate gird 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2 and 175 lb uplift at joint 6.
- 5) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job L279547	Truss T04A	Truss Type COMMON	Qty 1	Ply 2	NORTON - DAMON RES. Job Reference (optional)
----------------	---------------	----------------------	----------	----------	---

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:10 2008 Page 1

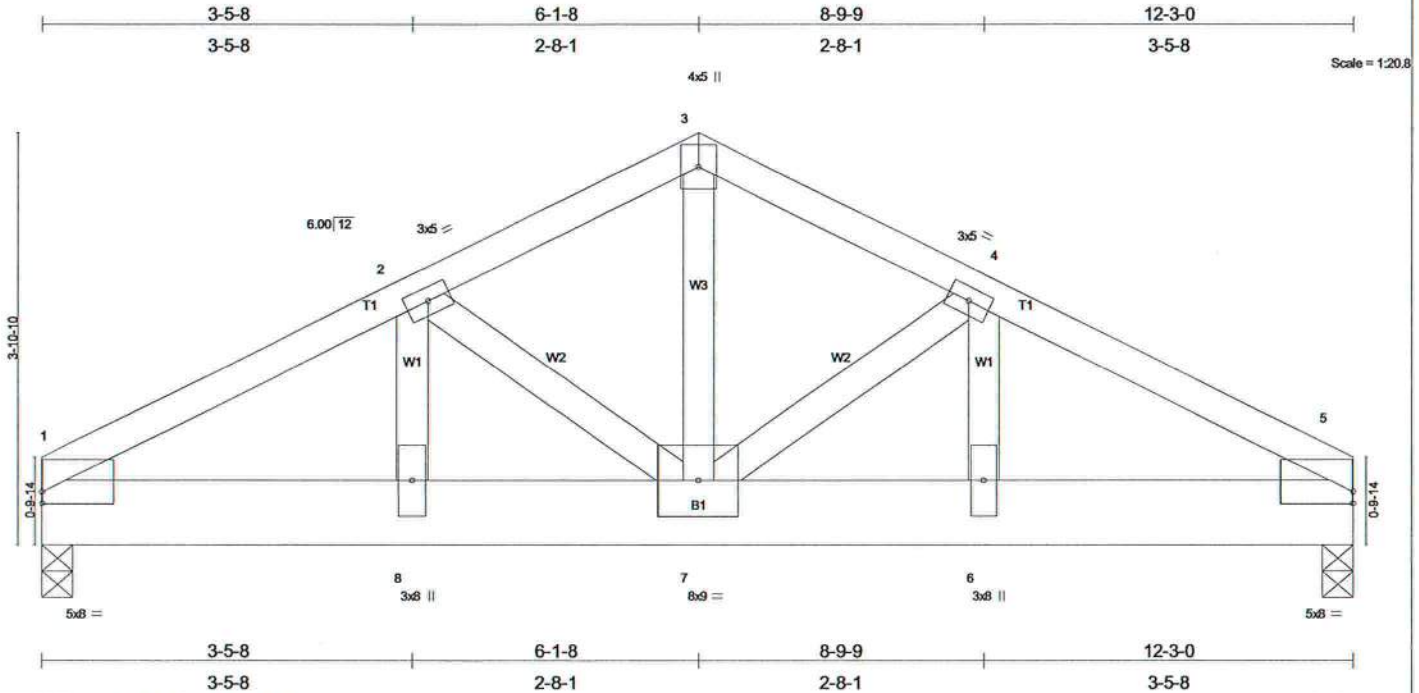


Plate Offsets (X,Y): [1:0-0-1,0-1-6], [5:0-0-1,0-1-6]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL)	-0.05	7	>999	360	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.48	Vert(TL)	-0.09	7	>999	240		
BCLL 10.0	Lumber Increase 1.25	WB 0.61	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 153 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 5-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 1=4433/0-3-8, 5=4433/0-3-8
Max Horz 1=44(load case 4)
Max Uplift 1=1202(load case 5), 5=1202(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

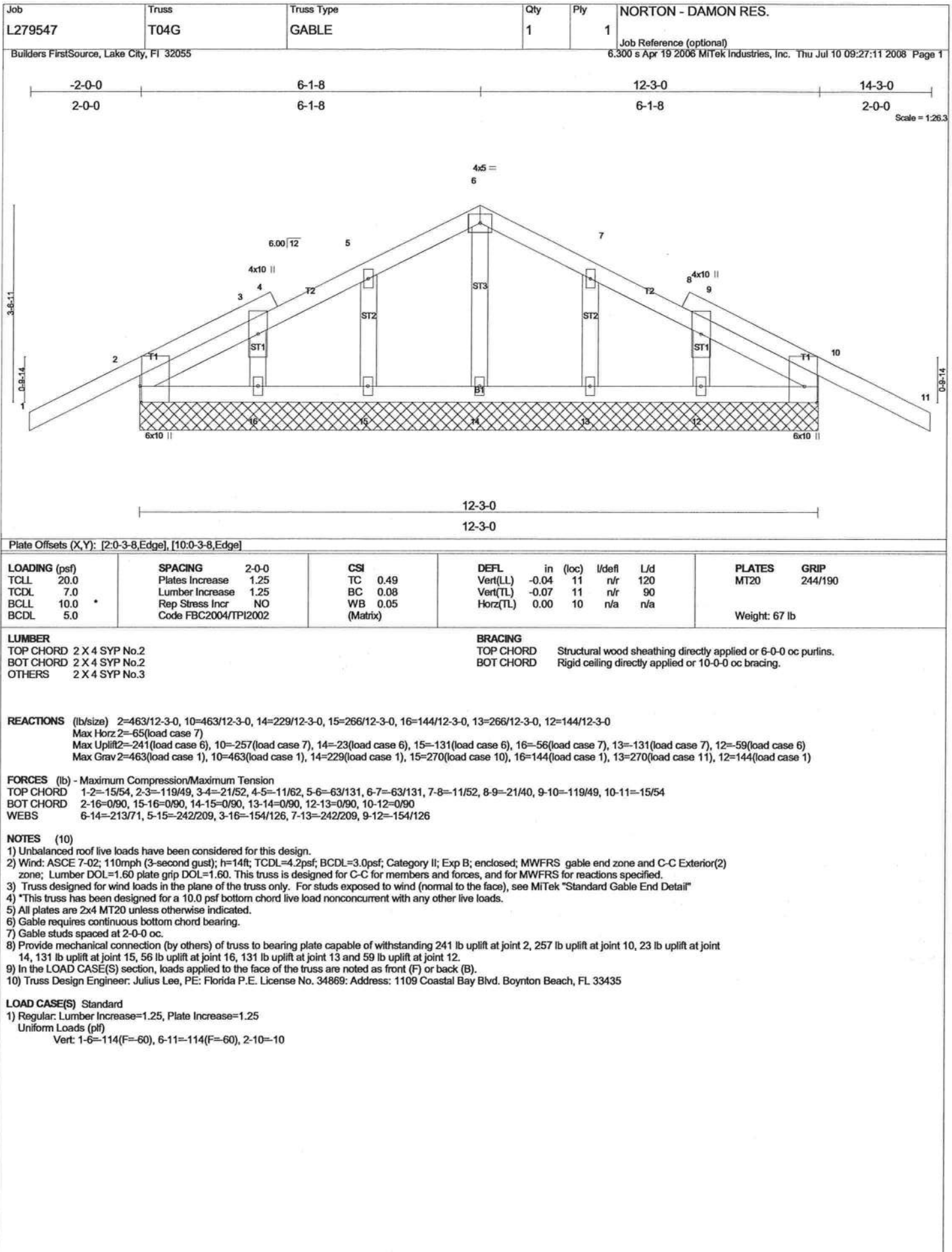
TOP CHORD 1-2=5924/1599, 2-3=4513/1245, 3-4=4513/1245, 4-5=5924/1600
BOT CHORD 1-8=1354/4980, 7-8=1354/4980, 6-7=1314/4980, 5-6=1314/4980
WEBS 2-8=465/1752, 2-7=1229/375, 3-7=1044/3802, 4-7=1229/376, 4-6=467/1752

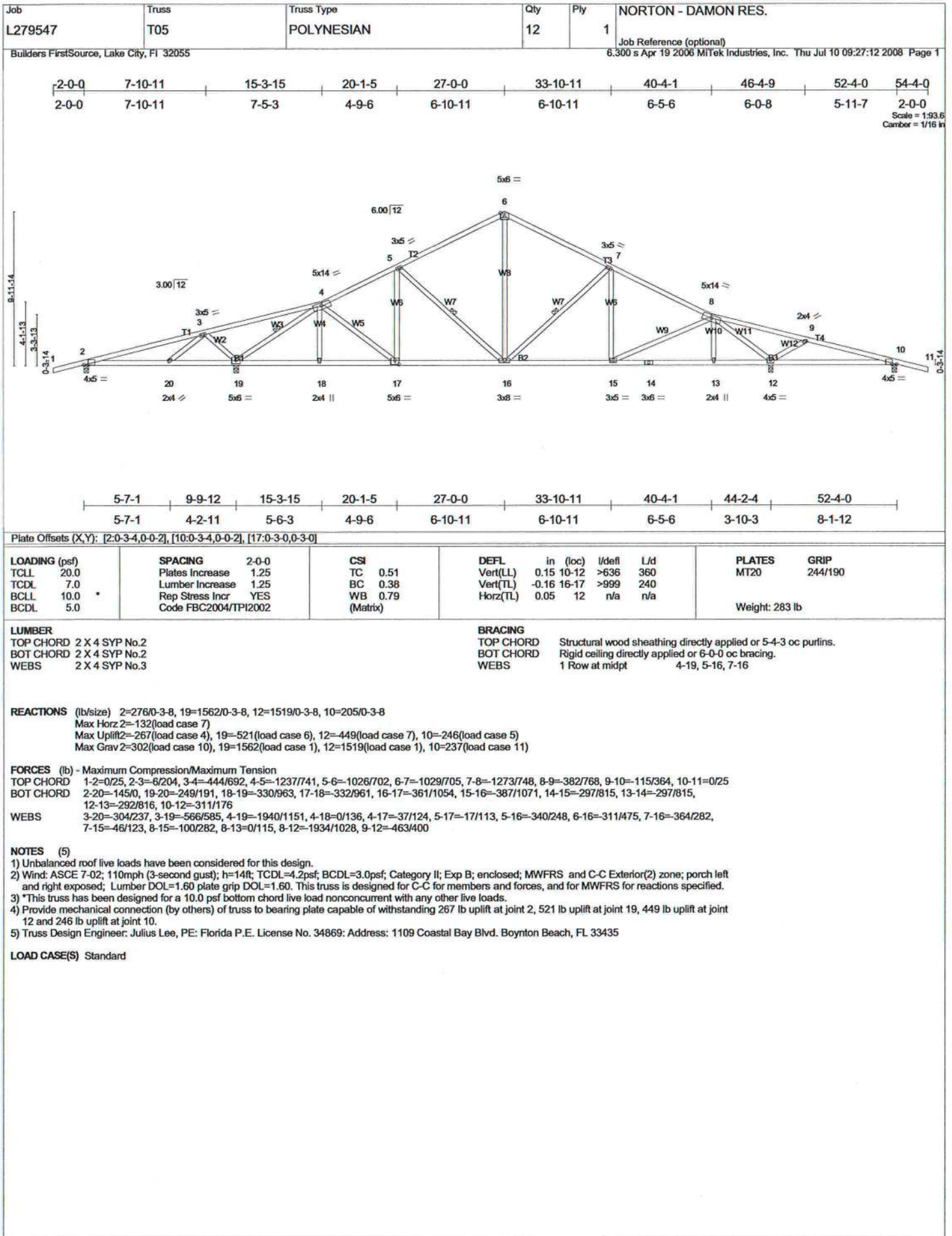
NOTES (8)

- 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 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1202 lb uplift at joint 1 and 1202 lb uplift at joint 5.
- Girder carries tie-in span(s): 44-4-0 from 0-0-0 to 12-3-0
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 3-5=54, 1-5=687(F=677)





Job L279547	Truss T05G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES.	J1970496
----------------	---------------	---------------------	----------	----------	---------------------	----------

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)
6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:14 2008 Page 1

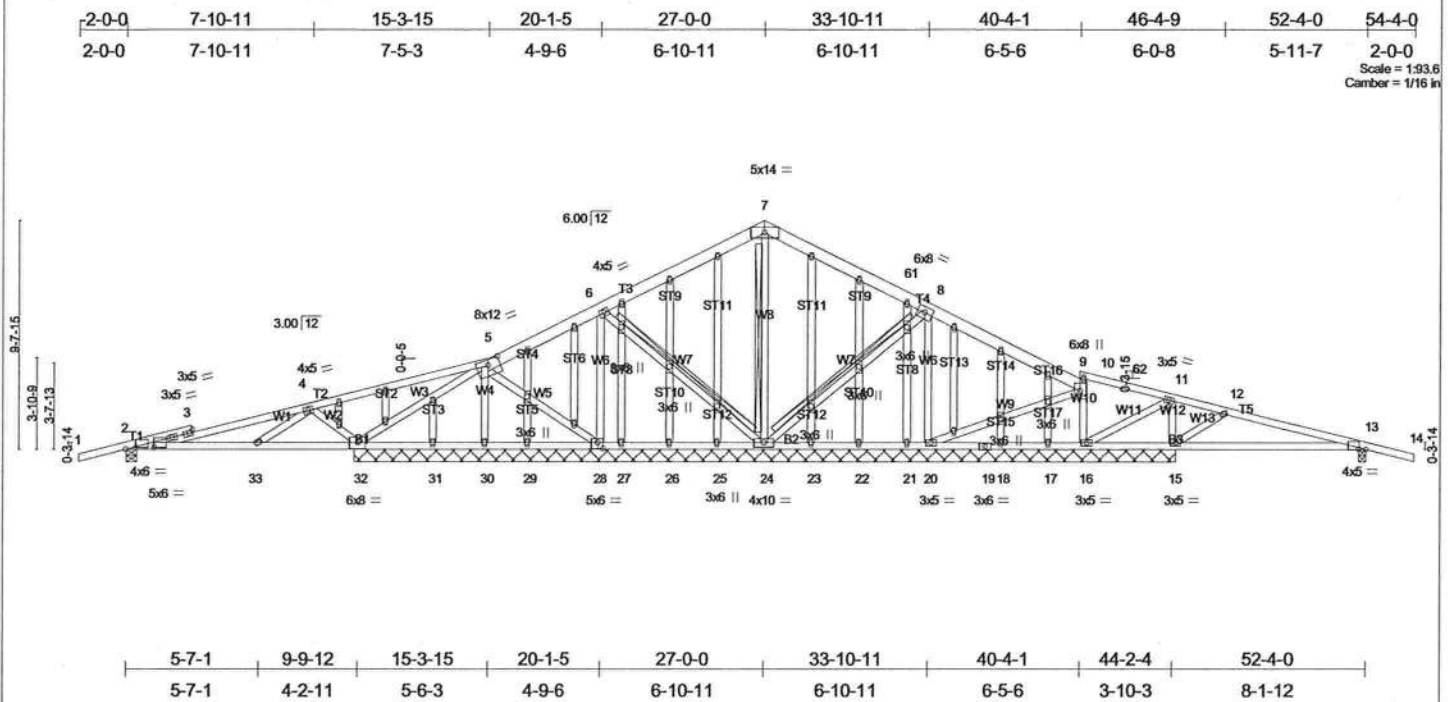


Plate Offsets (X,Y): [2-0-5,4,0-0-12], [2-1-2,8,0-0-12], [5-0-6,0-0-2-14], [13-0-3,7,0-0-2], [28-0-3,0-0-3-0]									
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.76	Vert(LL)	0.17 13-15	>573	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.32	Vert(TL)	-0.15 13-15	>662	240		
BCLL 10.0	Rep Stress Incr	NO	WB 0.58	Horz(TL)	0.01 15	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 401 lb	

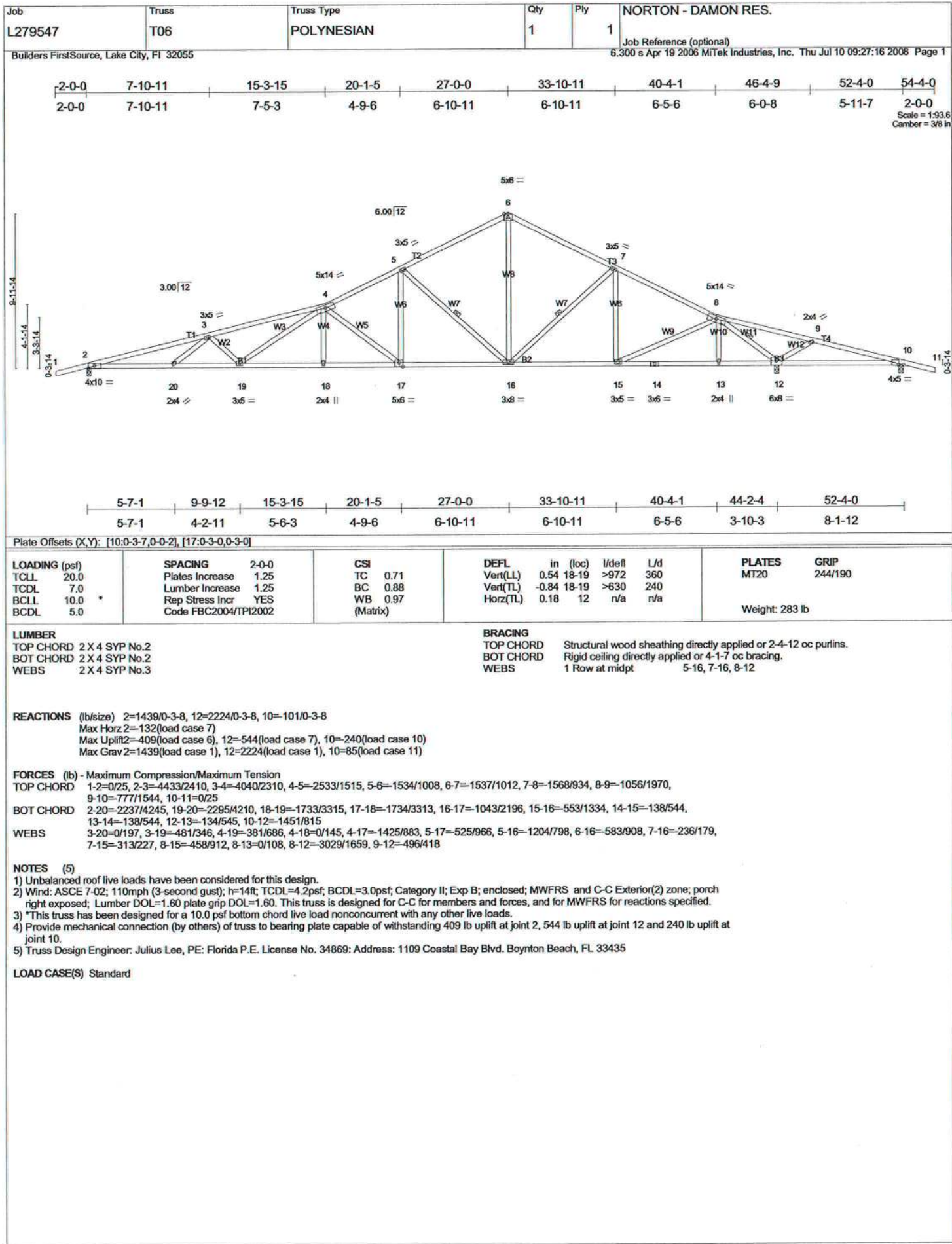
LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T2 2 X 4 SYP No.1D, T5 2 X 4 SYP No.2, T1 2 X 4 SYP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2 X 4 SYP No.2	WEBS T-Brace: 2 X 4 SYP No.3 - 6-24, 7-24, 8-24
WEBS 2 X 4 SYP No.3	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.
OTHERS 2 X 4 SYP No.3	,with 4in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS (lb/size)	2=690/0-5-8, 32=1197/34-8-0, 30=656/34-8-0, 28=482/34-8-0, 24=990/34-8-0, 20=775/34-8-0, 16=605/34-8-0, 15=567/34-8-0, 13=342/0-3-8, 25=20/34-8-0, 26=22/34-8-0, 27=9/34-8-0, 29=25/34-8-0, 31=17/34-8-0, 23=20/34-8-0, 22=22/34-8-0, 21=7/34-8-0, 18=27/34-8-0, 17=24/34-8-0
Max Horz 2=170(load case 7)	
Max Uplift 2=641(load case 4), 32=1020(load case 4), 30=485(load case 6), 28=373(load case 6), 24=703(load case 6), 20=602(load case 7), 16=452(load case 7), 15=417(load case 5), 13=328(load case 5), 17=30(load case 6)	
Max Grav 2=690(load case 10), 32=1197(load case 10), 30=656(load case 1), 28=493(load case 10), 24=990(load case 1), 20=790(load case 11), 16=605(load case 11), 15=567(load case 11), 13=342(load case 11), 25=59(load case 2), 26=65(load case 2), 27=27(load case 2), 29=78(load case 2), 31=72(load case 2), 23=59(load case 2), 22=65(load case 2), 21=21(load case 2), 18=81(load case 2), 17=64(load case 2)	

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD 1-2=30/53, 2-3=237/356, 3-4=203/323, 4-5=985/992, 5-6=124/191, 6-7=144/232, 7-61=0/196, 8-61=182/273, 8-9=281/301, 10-62=25/44, 11-62=66/57, 11-12=36/118, 12-13=191/148, 13-14=0/25	
BOT CHORD 2-33=217/197, 32-33=42/141, 31-32=205/356, 30-31=205/356, 29-30=178/331, 28-29=178/331, 27-28=18/207, 26-27=18/207, 25-26=18/207, 24-25=18/207, 23-24=0/142, 22-23=0/142, 21-22=0/142, 20-21=0/142, 19-20=0/119, 18-19=0/119, 17-18=0/119, 16-17=0/119, 15-16=100/162, 13-15=65/147	
WEBS 4-33=361/291, 4-32=1171/1306, 5-32=787/879, 5-30=637/603, 5-28=142/210, 6-28=594/547, 6-24=37/145, 7-24=811/661, 8-24=218/331, 8-20=806/802, 9-20=58/121, 9-16=673/699, 9-10=192/193, 11-16=37/142, 12-15=291/267, 11-15=333/239	

- NOTES (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.
 - 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"
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 641 lb uplift at joint 2, 1020 lb uplift at joint 32, 485 lb uplift at joint 30, 373 lb uplift at joint 28, 703 lb uplift at joint 24, 602 lb uplift at joint 20, 452 lb uplift at joint 16, 417 lb uplift at joint 15, 328 lb uplift at joint 13 and 30 lb uplift at joint 17.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard	
1) Regular: Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-5=114(F=60), 5-7=114(F=60), 7-61=114(F=60), 9-61=141(F=87), 10-62=141(F=87), 14-62=54, 2-13=10	



Job L279547	Truss T07	Truss Type POLYNESIAN	Qty 2	Ply 1	NORTON - DAMON RES. Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:18 2008 Page 1		

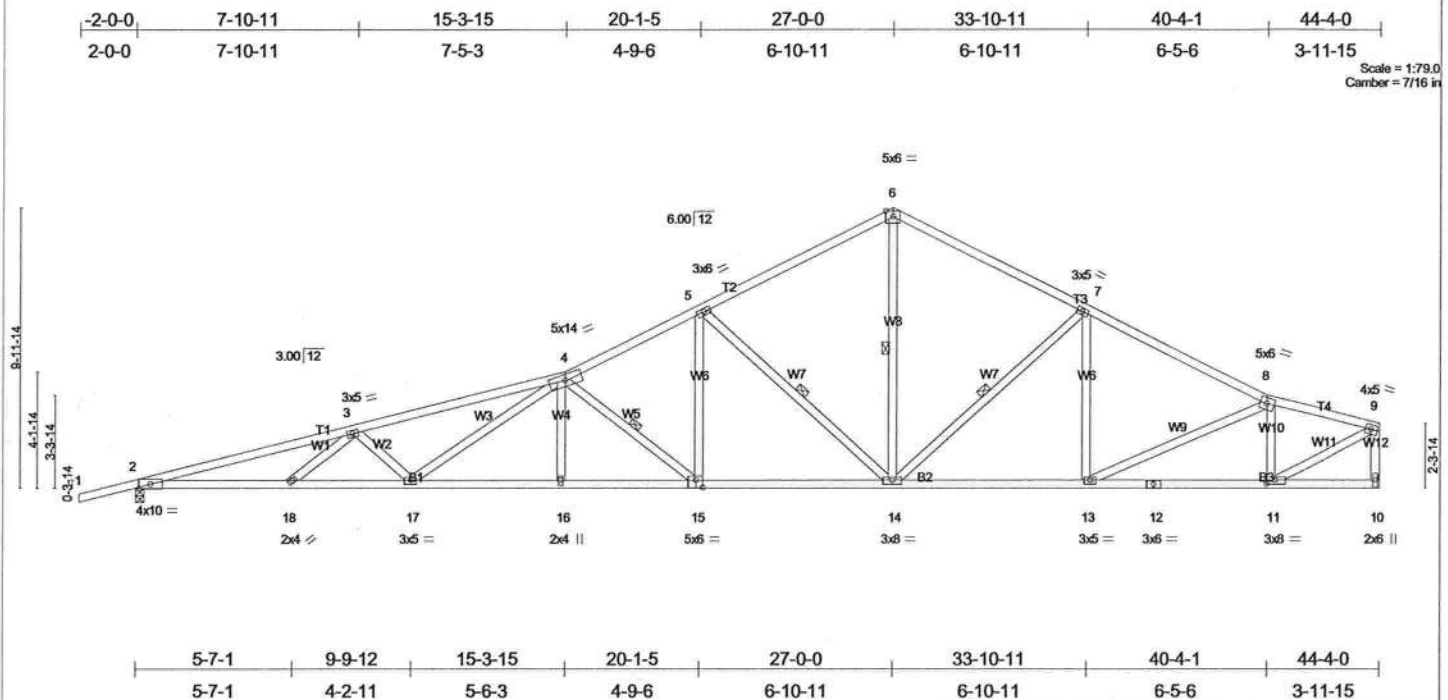


Plate Offsets (X,Y): [11:0-3-8,0-1-8], [15:0-3-0,0-3-0]					
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)
TCLL 20.0	Plates Increase	1.25	TC 0.80	Vert(LL)	0.61 16-17
TCCL 7.0	Lumber Increase	1.25	BC 0.94	Vert(TL)	-0.92 16-17
BCCL 10.0	Rep Stress Incr	YES	WB 0.59	Horz(TL)	0.21 10
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)		n/a
			L/d		360
			L/d		240
			Weight: 253 lb		

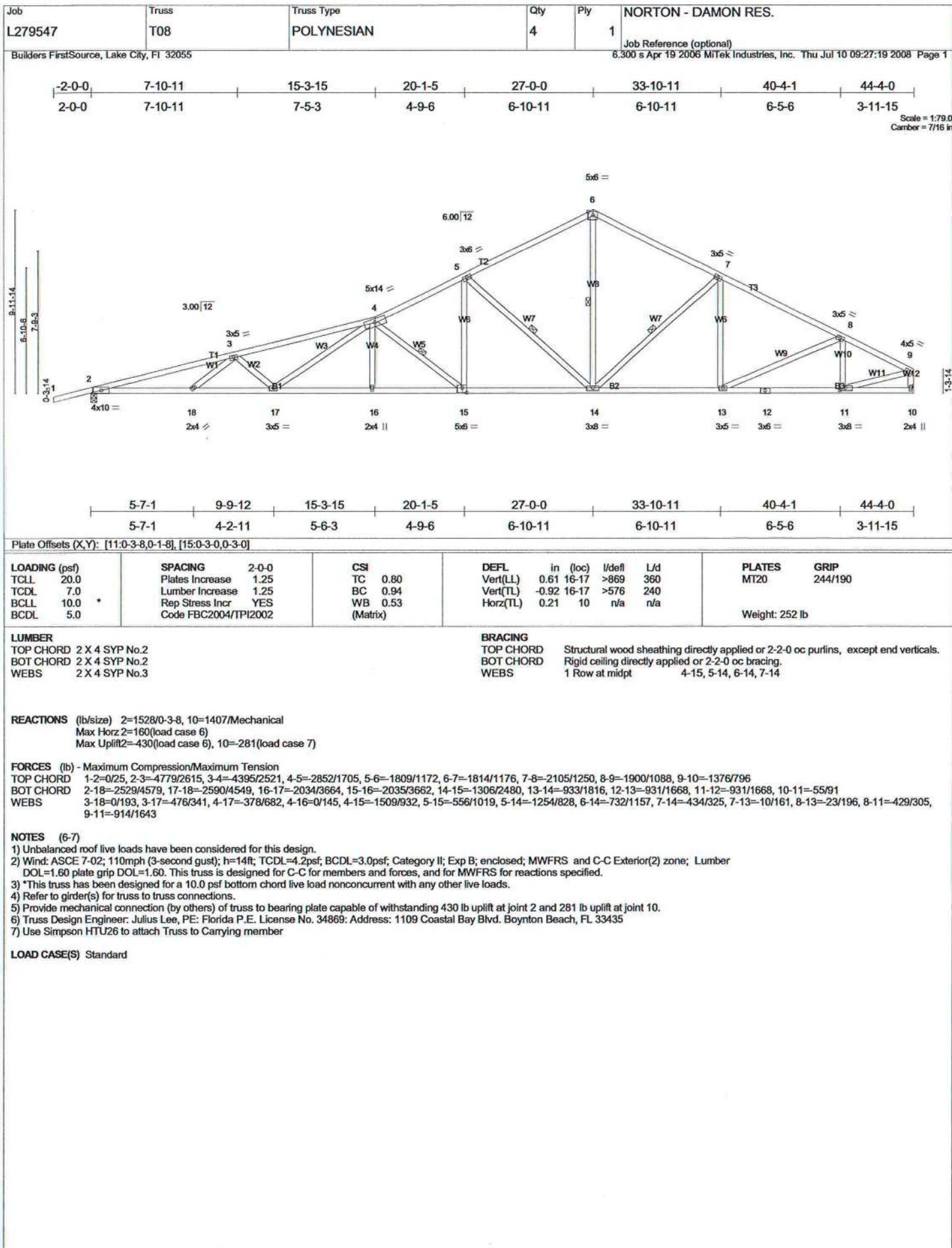
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 4-15, 5-14, 6-14, 7-14

REACTIONS (lb/size) 2=1528/0-3-8, 10=1407/Mechanical
Max Horz 2=180(load case 6)
Max Uplift 2=429(load case 6), 10=282(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=4779/2607, 3-4=4395/2514, 4-5=2851/1698, 5-6=1809/1167, 6-7=1813/1171, 7-8=2102/1240, 8-9=1706/984, 9-10=1379/800
BOT CHORD 2-18=2572/4579, 17-18=2633/4549, 16-17=2077/3664, 15-16=2078/3662, 14-15=1350/2480, 13-14=972/1815, 12-13=960/1678, 11-12=960/1678, 10-11=21/41
WEBS 3-18=0/193, 3-17=476/341, 4-17=378/682, 4-16=0/145, 4-15=1509/931, 5-15=555/1019, 5-14=1254/826, 6-14=726/1156, 7-14=432/317, 7-13=10/161, 8-13=27/188, 8-11=852/554, 9-11=1044/1826

- NOTES** (6-7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCCL=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.
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 2 and 282 lb uplift at joint 10.
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
 - Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



Job L279547	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES.
-----------------------	----------------------	----------------------------	-----------------	-----------------	----------------------------

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:21 2008 Page 1

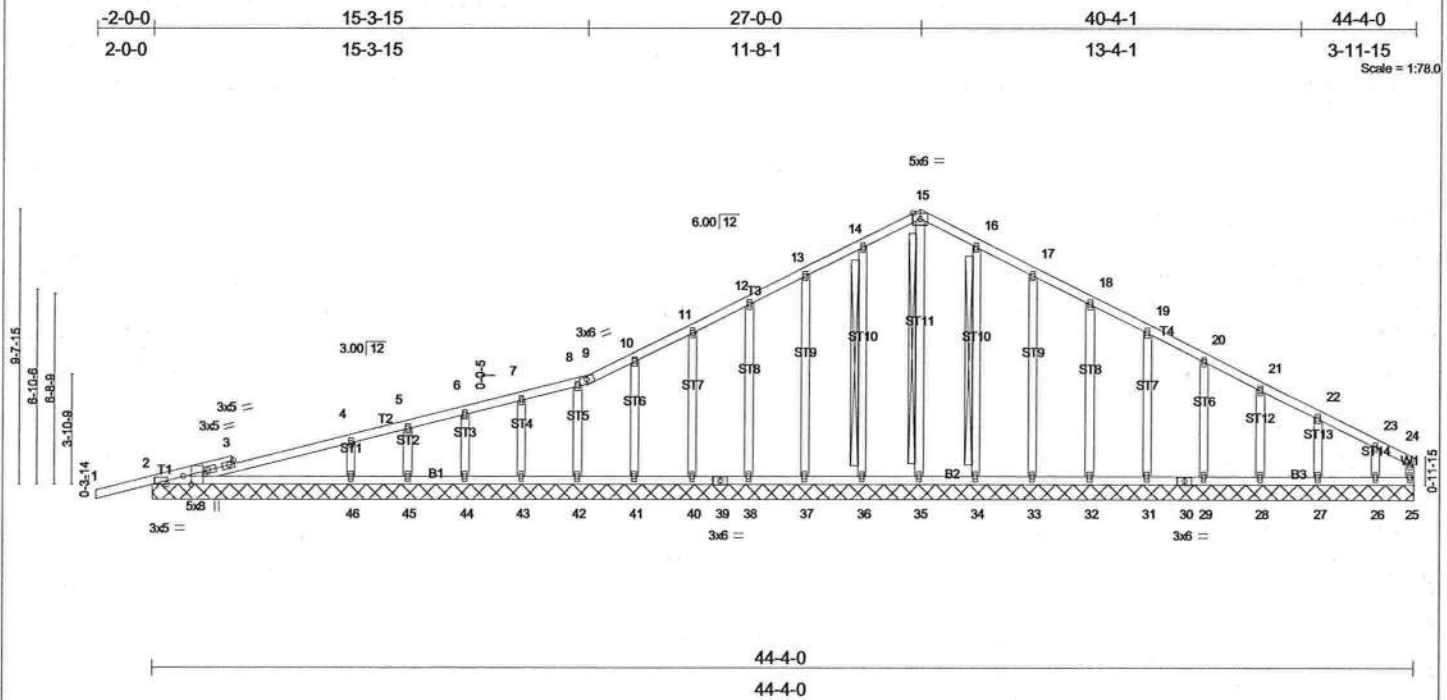


Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-6-12,Edge], [3-0-1-12,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.22	Vert(LL) 0.00 1 n/r 120		
BCLL 10.0	Lumber Increase 1.25	WB 0.10	Vert(TL) 0.03 1 n/r 90		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 25 n/a n/a		
	Code FBC2004/TPI2002			Weight: 275 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS T-Brace: 2 X 4 SYP No.3 - 15-35, 14-36, 16-34
OTHERS 2 X 4 SYP No.3	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=303/44-4-0, 25=24/44-4-0, 35=161/44-4-0, 36=131/44-4-0, 37=127/44-4-0, 38=128/44-4-0, 40=129/44-4-0, 41=125/44-4-0, 42=123/44-4-0, 43=118/44-4-0, 44=174/44-4-0, 45=56/44-4-0, 46=455/44-4-0, 34=131/44-4-0, 33=127/44-4-0, 32=128/44-4-0, 31=128/44-4-0, 29=128/44-4-0, 28=128/44-4-0, 27=127/44-4-0, 26=146/44-4-0

Max Horz 2=186(load case 6)

Max Uplift 2=211(load case 4), 25=43(load case 10), 36=73(load case 6), 37=92(load case 6), 38=85(load case 6), 40=87(load case 6), 41=83(load case 6), 42=63(load case 6), 43=67(load case 4), 44=87(load case 4), 45=56(load case 1), 46=213(load case 4), 34=69(load case 7), 33=93(load case 7), 32=85(load case 7), 31=87(load case 7), 29=86(load case 7), 28=90(load case 7), 27=74(load case 7), 26=189(load case 7)

Max Grav 2=303(load case 1), 25=151(load case 7), 35=168(load case 7), 36=135(load case 10), 37=127(load case 1), 38=128(load case 10), 40=129(load case 10), 41=125(load case 1), 42=123(load case 1), 43=118(load case 10), 44=174(load case 1), 45=14(load case 7), 46=455(load case 1), 34=133(load case 11), 33=127(load case 11), 32=128(load case 1), 31=128(load case 1), 29=128(load case 11), 28=128(load case 1), 27=130(load case 11), 26=146(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=207/38, 3-4=199/90, 4-5=138/33, 5-6=132/62, 6-7=104/56, 7-8=84/71, 8-9=71/87, 9-10=68/100, 10-11=41/138, 11-12=9/173, 12-13=0/209, 13-14=0/265, 14-15=0/312, 15-16=16/312, 16-17=14/265, 17-18=14/205, 18-19=14/148, 19-20=14/91, 20-21=14/66, 21-22=46/66, 22-23=94/67, 23-24=160/67, 24-25=94/30

BOT CHORD 2-46=41/132, 45-46=41/132, 44-45=41/132, 43-44=41/132, 42-43=41/132, 41-42=41/132, 40-41=41/132, 39-40=41/132, 38-39=41/132, 37-38=41/132, 36-37=41/132, 35-36=41/132, 34-35=41/132, 33-34=41/132, 32-33=41/132, 31-32=41/132, 30-31=41/132, 29-30=41/132, 28-29=41/132, 27-28=41/132, 26-27=41/132, 25-26=41/132

WEBS 15-35=166/0, 14-36=115/88, 13-37=107/118, 12-38=108/109, 11-40=109/111, 10-41=105/111, 8-42=102/101, 7-43=101/85, 6-44=140/112, 5-45=6/28, 4-46=356/254, 16-34=113/88, 17-33=107/118, 18-32=108/109, 19-31=108/111, 20-29=108/110, 21-28=108/111, 22-27=111/107, 23-26=110/148

- NOTES (9)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCCL=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.
 - 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"
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2, 43 lb uplift at joint 25, 73 lb uplift at joint 36, 92 lb uplift at joint 37, 85 lb uplift at joint 38, 87 lb uplift at joint 40, 83 lb uplift at joint 41, 63 lb uplift at joint 42, 67 lb uplift at joint 43, 87 lb uplift at joint 44, 56 lb uplift at joint 45, 213 lb uplift at joint 46, 69 lb uplift at joint 34, 93 lb uplift at joint 33, 85 lb uplift at joint 32, 87 lb uplift at joint 31, 86 lb uplift at joint 29, 90 lb uplift at joint 28, 74 lb uplift at joint 27 and 189 lb uplift at joint 26.
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

TOP	CHORD	2X4	SO.	PINE	#2	or	Better
BOT	CHORD	2X4	SO.	PINE	#2	or	Better
	WEBS	2X4	SO.	PINE	#3	or	Better

120 MPH MAX

Setback 7' or Less

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

UPLIFT: 400# or Less

UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND
SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE

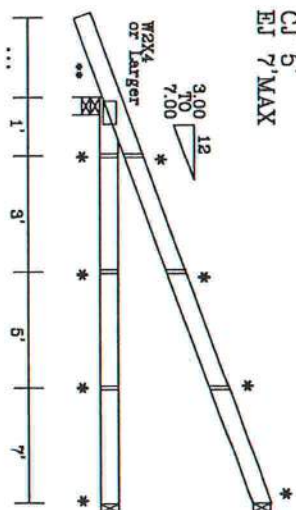
UPLIFT: 400# or Less
*
BRG LOC:

UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

400# or Less
*
UPLIFT:
RG LOC:

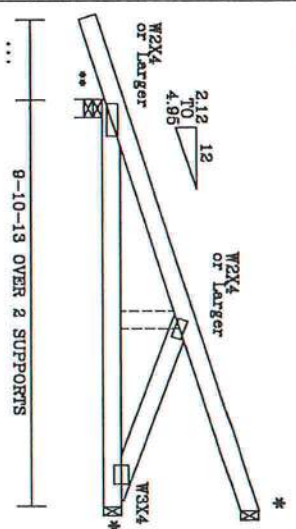
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND
SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)



ALL HEELS TO BE STANDEAR WITH NO CANTILEVER

1' 3' 5' 7' MAX

END AND CORNER JACKS



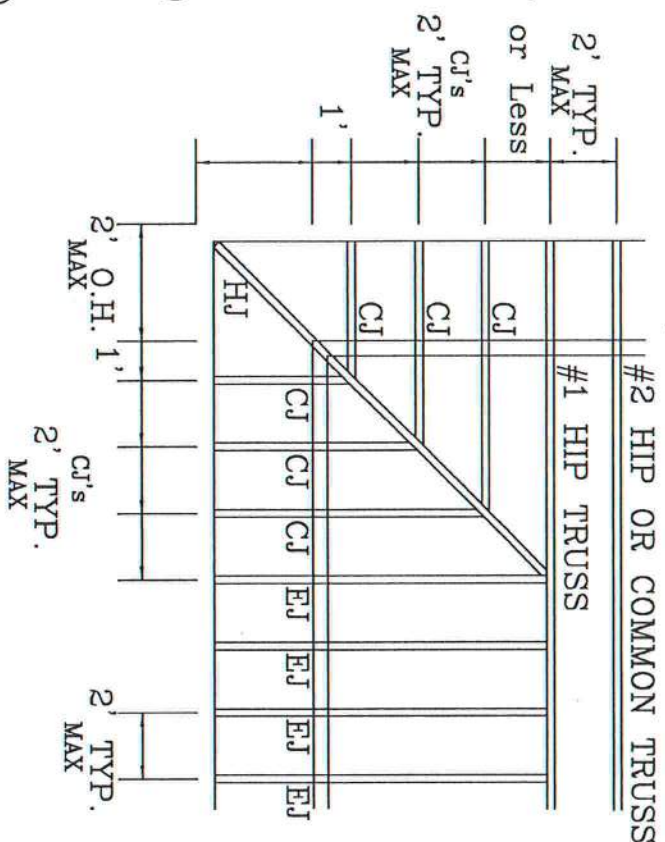
ALL HEELS TO BE STANDEAR WITH NO CANTILEVER

HJ

HIPJACK

*(3) 16d TOENAILS

SEE FOR THE DOWN



UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

ORNER SET
SETBACK

7'0" MAX

THESE RESIST EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSS. REFER TO BEST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 983 DUNFORD BL, SUITE 200, MAISON, VA 53179 AND AISC CROD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN, MADISON, VA 53719 FOR SAFETY PRACTICES, PROCEDURES, AND FOR THE TRUSS HANDLING, LIFTING, AND BRACING. THE TRUSS SHALL BE BRACED TO THE CEILING AND TO THE WALLS OF THE BUILDING. THE TRUSS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSS. DESIGN CONSIDERS WITH APPLICABLE PROVISIONS OF AISC 360, AISC 358, AISC 340, AISC 341, AISC 342, AISC 343, AISC 344, AISC 345, AISC 346, AISC 347, AISC 348, AISC 349, AISC 350, AISC 351, AISC 352, AISC 353, AISC 354, AISC 355, AISC 356, AISC 357, AISC 358, AISC 359, AISC 360, AISC 361, AISC 362, AISC 363, AISC 364, AISC 365, AISC 366, AISC 367, AISC 368, AISC 369, AISC 370, AISC 371, AISC 372, AISC 373, AISC 374, AISC 375, AISC 376, AISC 377, AISC 378, AISC 379, AISC 380, AISC 381, AISC 382, AISC 383, AISC 384, AISC 385, AISC 386, AISC 387, AISC 388, AISC 389, AISC 390, AISC 391, AISC 392, AISC 393, AISC 394, AISC 395, AISC 396, AISC 397, AISC 398, AISC 399, AISC 400, AISC 401, AISC 402, AISC 403, AISC 404, AISC 405, AISC 406, AISC 407, AISC 408, AISC 409, AISC 410, AISC 411, AISC 412, AISC 413, AISC 414, AISC 415, AISC 416, AISC 417, AISC 418, AISC 419, AISC 420, AISC 421, AISC 422, AISC 423, AISC 424, AISC 425, AISC 426, AISC 427, AISC 428, AISC 429, AISC 430, AISC 431, AISC 432, AISC 433, AISC 434, AISC 435, AISC 436, AISC 437, AISC 438, AISC 439, AISC 440, AISC 441, AISC 442, AISC 443, AISC 444, AISC 445, AISC 446, AISC 447, AISC 448, AISC 449, AISC 450, AISC 451, AISC 452, AISC 453, AISC 454, AISC 455, AISC 456, AISC 457, AISC 458, AISC 459, AISC 460, AISC 461, AISC 462, AISC 463, AISC 464, AISC 465, AISC 466, AISC 467, AISC 468, AISC 469, AISC 470, AISC 471, AISC 472, AISC 473, AISC 474, AISC 475, AISC 476, AISC 477, AISC 478, AISC 479, AISC 480, AISC 481, AISC 482, AISC 483, AISC 484, AISC 485, AISC 486, AISC 487, AISC 488, AISC 489, AISC 490, AISC 491, AISC 492, AISC 493, AISC 494, AISC 495, AISC 496, AISC 497, AISC 498, AISC 499, AISC 500, AISC 501, AISC 502, AISC 503, AISC 504, AISC 505, AISC 506, AISC 507, AISC 508, AISC 509, AISC 510, AISC 511, AISC 512, AISC 513, AISC 514, AISC 515, AISC 516, AISC 517, AISC 518, AISC 519, AISC 520, AISC 521, AISC 522, AISC 523, AISC 524, AISC 525, AISC 526, AISC 527, AISC 528, AISC 529, AISC 530, AISC 531, AISC 532, AISC 533, AISC 534, AISC 535, AISC 536, AISC 537, AISC 538, AISC 539, AISC 540, AISC 541, AISC 542, AISC 543, AISC 544, AISC 545, AISC 546, AISC 547, AISC 548, AISC 549, AISC 550, AISC 551, AISC 552, AISC 553, AISC 554, AISC 555, AISC 556, AISC 557, AISC 558, AISC 559, AISC 560, AISC 561, AISC 562, AISC 563, AISC 564, AISC 565, AISC 566, AISC 567, AISC 568, AISC 569, AISC 570, AISC 571, AISC 572, AISC 573, AISC 574, AISC 575, AISC 576, AISC 577, AISC 578, AISC 579, AISC 580, AISC 581, AISC 582, AISC 583, AISC 584, AISC 585, AISC 586, AISC 587, AISC 588, AISC 589, AISC 590, AISC 591, AISC 592, AISC 593, AISC 594, AISC 595, AISC 596, AISC 597, AISC 598, AISC 599, AISC 600, AISC 601, AISC 602, AISC 603, AISC 604, AISC 605, AISC 606, AISC 607, AISC 608, AISC 609, AISC 610, AISC 611, AISC 612, AISC 613, AISC 614, AISC 615, AISC 616, AISC 617, AISC 618, AISC 619, AISC 620, AISC 621, AISC 622, AISC 623, AISC 624, AISC 625, AISC 626, AISC 627, AISC 628, AISC 629, AISC 630, AISC 631, AISC 632, AISC 633, AISC 634, AISC 635, AISC 636, AISC 637, AISC 638, AISC 639, AISC 640, AISC 641, AISC 642, AISC 643, AISC 644, AISC 645, AISC 646, AISC 647, AISC 648, AISC 649, AISC 650, AISC 651, AISC 652, AISC 653, AISC 654, AISC 655, AISC 656, AISC 657, AISC 658, AISC 659, AISC 660, AISC 661, AISC 662, AISC 663, AISC 664, AISC 665, AISC 666, AISC 667, AISC 668, AISC 669, AISC 670, AISC 671, AISC 672, AISC 673, AISC 674, AISC 675, AISC 676, AISC 677, AISC 678, AISC 679, AISC 680, AISC 681, AISC 682, AISC 683, AISC 684, AISC 685, AISC 686, AISC 687, AISC 688, AISC 689, AISC 690, AISC 691, AISC 692, AISC 693, AISC 694, AISC 695, AISC 696, AISC 697, AISC 698, AISC 699, AISC 700, AISC 701, AISC 702, AISC 703, AISC 704, AISC 705, AISC 706, AISC 707, AISC 708, AISC 709, AISC 710, AISC 711, AISC 712, AISC 713, AISC 714, AISC 715, AISC 716, AISC 717, AISC 718, AISC 719, AISC 720, AISC 721, AISC 722, AISC 723, AISC 724, AISC 725, AISC 726, AISC 727, AISC 728, AISC 729, AISC 730, AISC 731, AISC 732, AISC 733, AISC 734, AISC 735, AISC 736, AISC 737, AISC 738, AISC 739, AISC 740, AISC 741, AISC 742, AISC 743, AISC 744, AISC 745, AISC 746, AISC 747, AISC 748, AISC 749, AISC 750, AISC 751, AISC 752, AISC 753, AISC 754, AISC 755, AISC 756, AISC 757, AISC 758, AISC 759, AISC 760, AISC 761, AISC 762, AISC 763, AISC 764, AISC 765, AISC 766, AISC 767, AISC 768, AISC 769, AISC 770, AISC 771, AISC 772, AISC 773, AISC 774, AISC 775, AISC 776, AISC 777, AISC 778, AISC 779, AISC 780, AISC 781, AISC 782, AISC 783, AISC 784, AISC 785, AISC 786, AISC 787, AISC 788, AISC 789, AISC 790, AISC 791, AISC 792, AISC 793, AISC 794, AISC 795, AISC 796, AISC 797, AISC 798, AISC 799, AISC 800, AISC 801, AISC 802, AISC 803, AISC 804, AISC 805, AISC 806, AISC 807, AISC 808, AISC 809, AISC 810, AISC 811, AISC 812, AISC 813, AISC 814, AISC 815, AISC 816, AISC 817, AISC 818, AISC 819, AISC 820, AISC 821, AISC 822, AISC 823, AISC 824, AISC 825, AISC 826, AISC 827, AISC 828, AISC 829, AISC 830, AISC 831, AISC 832, AISC 833, AISC 834, AISC 835, AISC 836, AISC 837, AISC 838, AISC 839, AISC 840, AISC 841, AISC 842, AISC 843, AISC 844, AISC 845, AISC 846, AISC 847, AISC 848, AISC 849, AISC 850, AISC 851, AISC 852, AISC 853, AISC 854, AISC 855, AISC 856, AISC 857, AISC 858, AISC 859, AISC 860, AISC 861, AISC 862, AISC 863, AISC 864, AISC 865, AISC 866, AISC 867, AISC 868, AISC 869, AISC 870, AISC 871, AISC 872, AISC 873, AISC 874, AISC 875, AISC 876, AISC 877, AISC 878, AISC 879, AISC 880, AISC 88

1365 SW 4th Avenue
•
Miami Beach, FL 33134-2188
•
CONS. ENGINEERS, P.C.

TC	DL	20	MAX	PSF
TC	DL	7	MAX	PSF
BC	DL	10*	MAX	PSF
BC	DL	5	MAX	PSF

REF	7" MAX STBK CS
DATE	Jun./27/2008
DRWG	
-ENG	

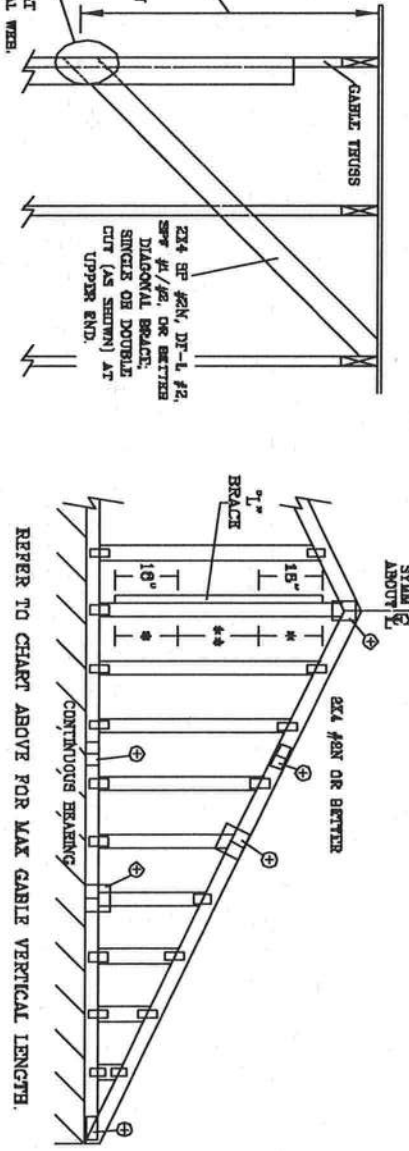
-ENG

REVIEWED
By Julius Lee at 10:52 am, Jun 27, 2008

DUR. FAC. 1.25
SPACING 2' MAX

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

MAX GABLE VERTICAL LENGTH													
SPACING	2x4 GABLE VERTICAL SPECIES	BRACE	NO BRACES	(1) 1x4 T" BRACE *									
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	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"
	HF	STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 6"	11' 6"
		#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"	6' 10"	6' 3"	6' 11"	7' 6"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
16" O.C.	SPF	#3	3' 6"	5' 0"	6' 0"	6' 8"	6' 7"	8' 3"	8' 6"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 8"	6' 7"	8' 3"	8' 6"	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"
	HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 8"	12' 6"	12' 6"	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"
24" O.C.	SPF	#1	3' 9"	8' 0"	6' 0"	7' 11"	7' 11"	9' 6"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	8' 0"	6' 0"	7' 11"	7' 11"	9' 6"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	5' 2"	6' 2"	7' 11"	8' 6"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	HF	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 2"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 2"	9' 6"	9' 11"	12' 6"	13' 5"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	13' 5"	14' 0"	14' 0"



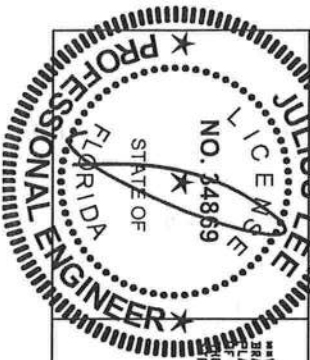
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPICE-PINE-YR	NOCK-PTR	SPICE-PINE-YR	NOCK-PTR
#1 / #2 STANDARD	#2 STUD	#1 / #2 STANDARD	#2 STUD
#3 STUD		#3 STUD	
STANDARD		STANDARD	
DOUGLAS FIR-LARCH		SOUTHERN PINE	
#1 / #2 STANDARD	#2 STUD	#1 / #2 STANDARD	#2 STUD
#3 STUD		#3 STUD	
STANDARD		STANDARD	

CABLE TRUSS DETAIL NOTES:
LIVE LOAD DERIVATION: CEILING IS L/240.
PROVIDE UPLIFT CONNECTIONS FOR 136 PSF OVER CONTINUOUS BEAMING (6 PSF TO DEAD LOAD).
CABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 8' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
ATTACH EACH T" BRACE WITH 10d NAILS.
FOR (1) T" BRACE. SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) T" BRACES. SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
T" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH	NO SPICE	LESS THAN 4' 0"	1x4 OR 2x3
GREATER THAN 4' 0"	BUT	2x4	
LESS THAN 11' 6"		2x4	
GREATER THAN 11' 6"		2x4	

+ REFER TO COMBINED TRUSS DESIGN FOR PLATE, SPICER, AND BEEL PLATES



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO SECS 1-40 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS INSTITUTE, 583 JORDAN RD., SUITE 200, MARIETTA, GA 30067, AND VITA (VOID TRUSS CONTACT) PUBLISHED BY TPI TRUSS INSTITUTE, 583 JORDAN RD., SUITE 200, MARIETTA, GA 30067, FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS INSTALLATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED ROOFING PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

REVIEWED
By Julius Lee at 12:00 pm, Jun 11, 2008

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

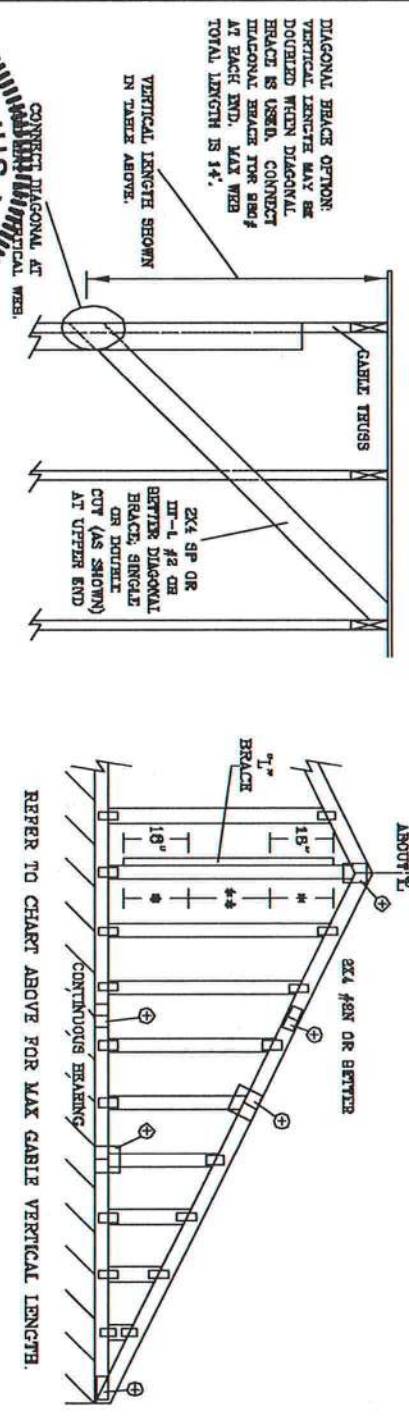
No. 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF ASCE 7-02-CAB12015
DATE 11/26/03
DRWG MTRX STD CABLE 15 E HT
-ENG

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

MAX GABLE VERTICAL LENGTH		BRACE		NO		(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE *		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE *		(2) 2X8 "L" BRACE *	
GABLE VERTICAL SPECIES	GRADE	2X4	BRACE	SPACING	SPECIES	GROUP A		GROUP B		GROUP A		GROUP B		GROUP A		GROUP B	
						#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3
12" O.C.	DFL	SPF	STUD	3' 2"	3' 1"	5' 6"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"	12' 3"
						4' 5"	4' 5"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
						3' 1"	3' 1"	3' 1"	3' 1"	4' 5"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"
						2' 11"	2' 11"	2' 11"	2' 11"	3' 9"	3' 9"	6' 0"	6' 0"	7' 10"	7' 10"	8' 0"	10' 3"
16" O.C.	DFL	SPF	STUD	3' 3"	3' 3"	5' 6"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"	12' 3"
						4' 5"	4' 5"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
						3' 1"	3' 1"	3' 1"	3' 1"	4' 5"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"
						2' 11"	2' 11"	2' 11"	2' 11"	3' 9"	3' 9"	6' 0"	6' 0"	7' 10"	7' 10"	8' 0"	10' 3"
24" O.C.	DFL	SPF	STUD	3' 4"	3' 4"	5' 6"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"	12' 3"
						4' 5"	4' 5"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
						3' 1"	3' 1"	3' 1"	3' 1"	4' 5"	4' 5"	6' 8"	6' 10"	7' 10"	7' 10"	8' 0"	10' 3"
						2' 11"	2' 11"	2' 11"	2' 11"	3' 9"	3' 9"	6' 0"	6' 0"	7' 10"	7' 10"	8' 0"	10' 3"



CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPICE
LESS THAN 4' 0"	1X4 OR BTR
GREATER THAN 4' 0" BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COLLATOR TRUSS DESIGN FOR PEAK, SPICE, AND BEEL PLATES.

BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SOUTHERN PINE	RED-PIN
#1 / #2 STANDARD	#2 STUD
#3 STUD	#3 STANDARD
GROUP B:	
SOUTHERN PINE	RED-PIN
#1 / #2 STANDARD	#2 STUD
#3 STUD	#3 STANDARD

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.

PROVIDE UPSET CONNECTIONS FOR 160 FIP OVER CONTINUOUS BEAMING (6 PER TC DEAD LOAD).

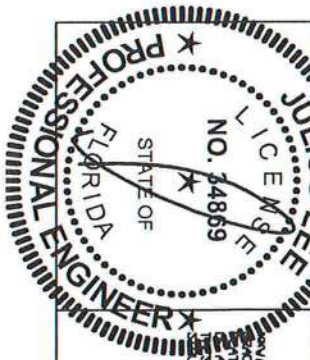
CABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 104 NAILS.

* FOR (1) "L" BRACE, SPACE NAILS AT 8" 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.



DESIGNER: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-43 GUARDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS ASSOCIATION, 6800 ENTERPRISE LN, MIDDLETON, VA 22117 FOR SAFETY PRACTICES PRIOR TO PERSONNEL TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROTECTIVE ATTACHED LAMINATED PANELS AND BOTTOM CHORD SHALL HAVE A PROTECTIVE ATTACHED ROOF CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL 33444-2101

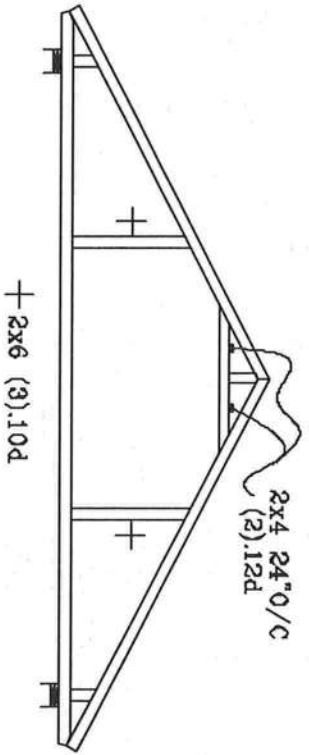
No. 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

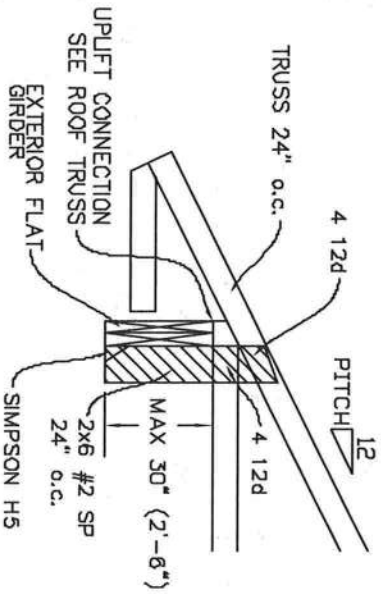
REF: ASCE 7-02-CAB130400
DATE: 11/26/03
DWG: MATE STD GABLE 30 x 30
-ENG-

REVIEWED
By Julius Lee at 12:00 pm, Jun 11, 2008

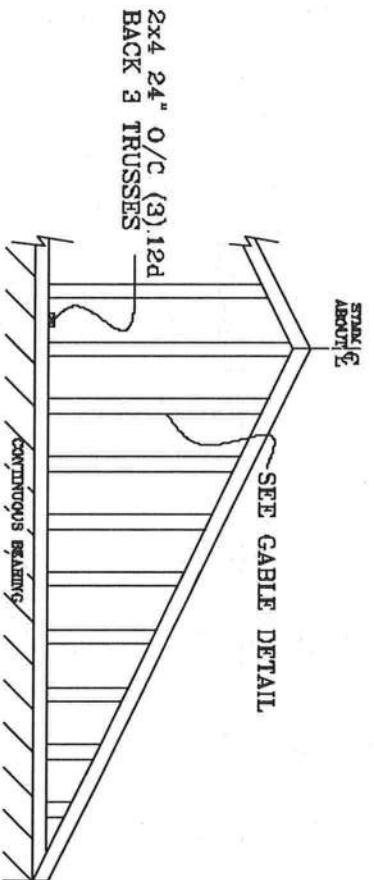
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

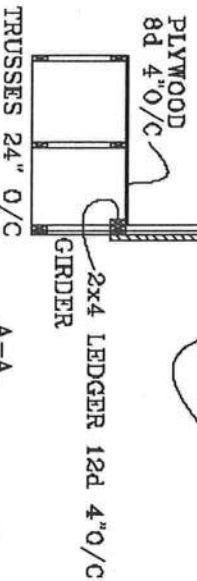
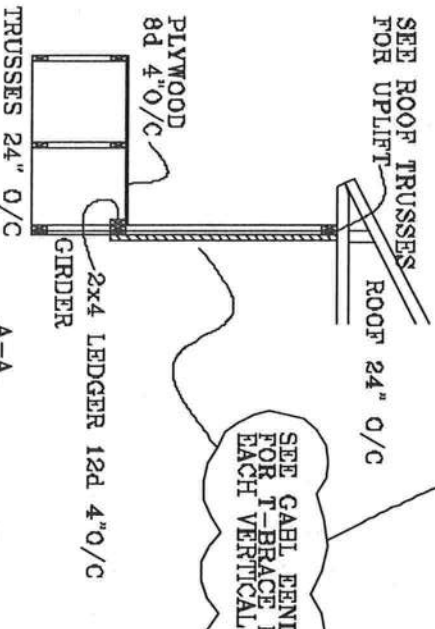
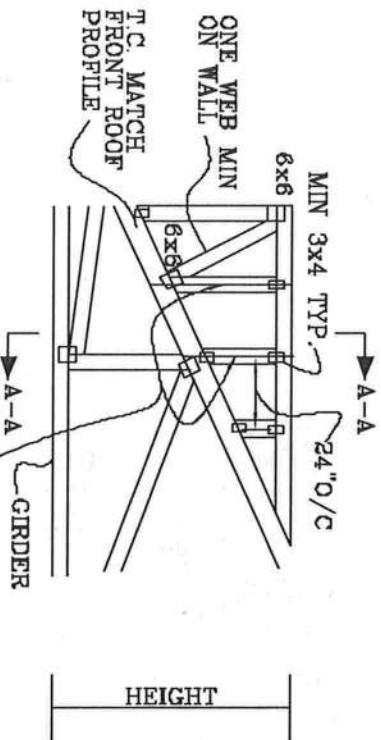


GABLE END TRUSS DETAIL

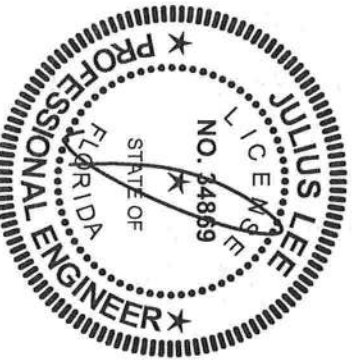


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR FOR

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008



JULIUS LEE'S
CONS. ENGINEERS P.A.
1405 SW 45th AVENUE
DEER BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

TOP CHORD 2X4 ~~12~~ OR BETTER
BOT CHORD 2X4 ~~12~~ OR BETTER
WEBS 2X4 ~~12~~ OR BETTER

SPACE PIGGYBACK VERTICALS AT 4' OC MAX

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

PIGGBACK 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.

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

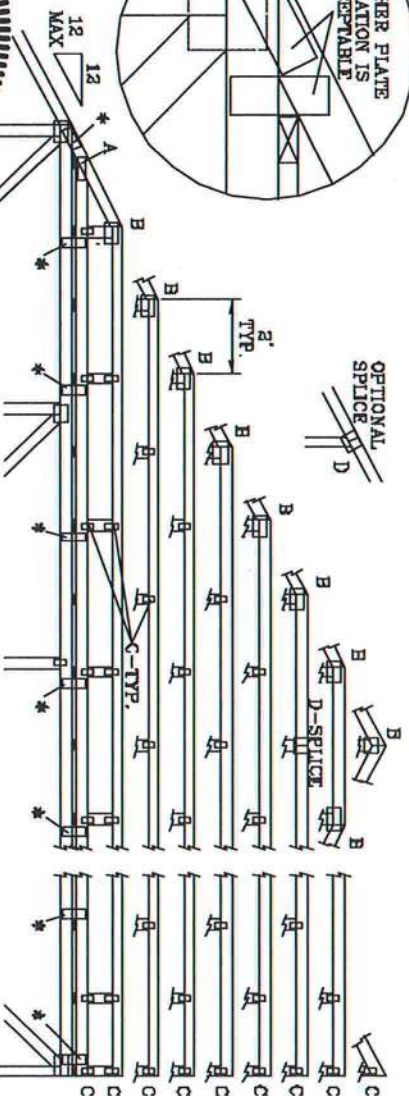
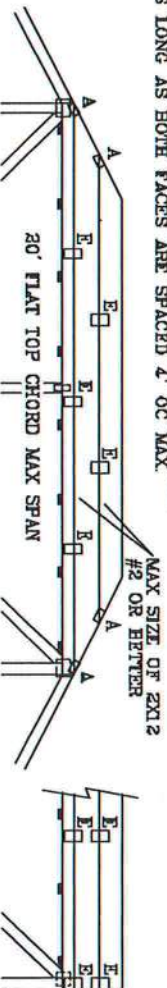
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG,

CAT 1, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

ENCLOSED BLDG LOCATED ANYWHERE IN BOOTH

WIND TC DL-5 PSF, WIND BC DL-5 PSF

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



STRENGTH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 647,045

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X8	6X8	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X6	6X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

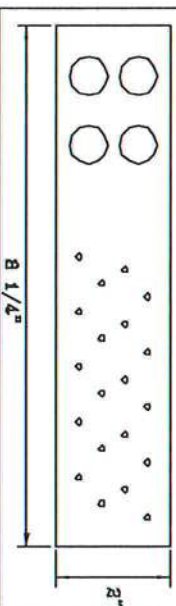
ATTACH TADLOX PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TADLOX INFORMATION.

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

OPTIONAL
SPLICE

D

* PIGGYBACK SPECIAL PLATE



OVERSEAS. RESEARCHERS REQUIRING EXTENSIVE TIME IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND TESTING, REFER TO BEST-OF-BUILDING COMPONENT INFORMATION, PUBLISHED BY THE CRITICAL PATHS INSTITUTE, 360 DUNDON DR., SUITE 200, MAULSTON, VA, 22079 AND VISA CREDIT FROM CRITICAL ENTERPRISES, L.L. MADISON, WI 53703 FOR SMALL PRACTICES PRIOR TO PURCHASING. UNLESS OTHERWISE INDICATED, TOP CHOICE SHALL HAVE PRESENTLY ATTACHED

JULIUS LEE'S
CONS. ENGINEERS P.A.

1460 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

MAX. LOADING

REF PIGGYBACK

EE PST AT

DATE 09/12/07

1.333 DUR. FAC.

DRWG MITEK STD PIGGY

50 PSF AT

-ENG JL

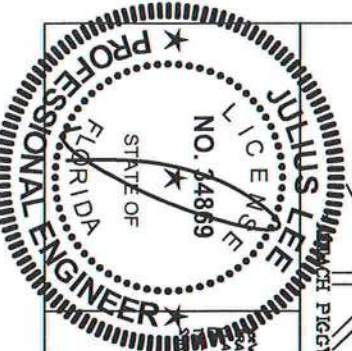
1.25 DUR. FAC.

--	--

47 PSE AT

1.15 DUR. FA

ACING 24.0



REVIEWED

By **julius lee** at 11:59 am, Jun 11, 2008

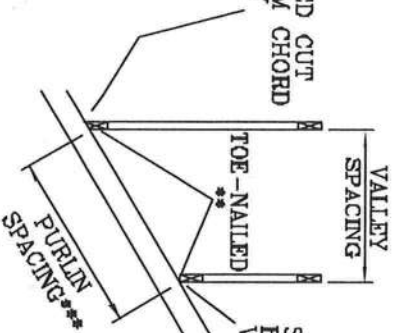
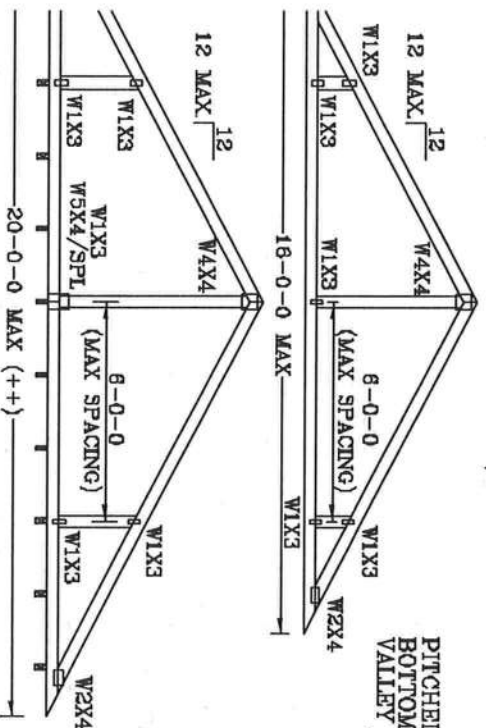
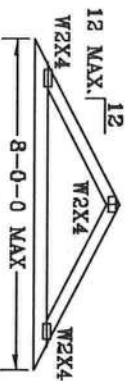
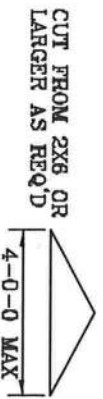
No: 34289
STATE OF FLORIDA

SPACING

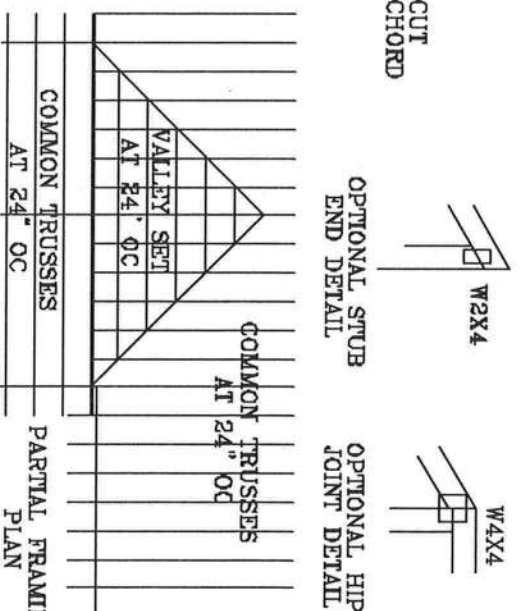
VALLEY TRUSS DETAIL

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.



*** 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.



THIS DRAWING REPLACES DRAWING A105

JULIUS LEE'S
CONS. ENGINEERS P.A.

1655 SW 4th AVENUE
DEALY BEACH, FL 33444-8101

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		

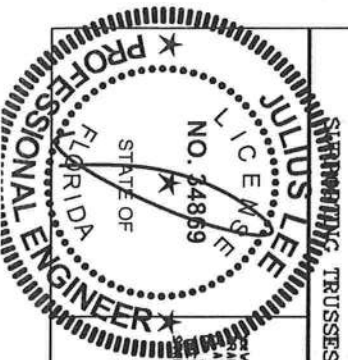
No. 34869
STATE OF FLORIDA

DUR.FAC. 1.25	1.25
SPACING	24"

WARNING: TRUSSES BECOME EXTENSIVE RAGE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO TEXT FOR QUALITY CONTROL. THIS DRAWING IS THE PROPERTY OF JULIUS LEE'S CONSULTING ENGINEERS P.A. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM JULIUS LEE'S CONSULTING ENGINEERS P.A. ALL RIGHTS ARE RESERVED. THIS DRAWING IS THE PROPERTY OF JULIUS LEE'S CONSULTING ENGINEERS P.A. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM JULIUS LEE'S CONSULTING ENGINEERS P.A. ALL RIGHTS ARE RESERVED.

REVIEWED

By Julius Lee at 11:59 am, Jun 11, 2008



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.

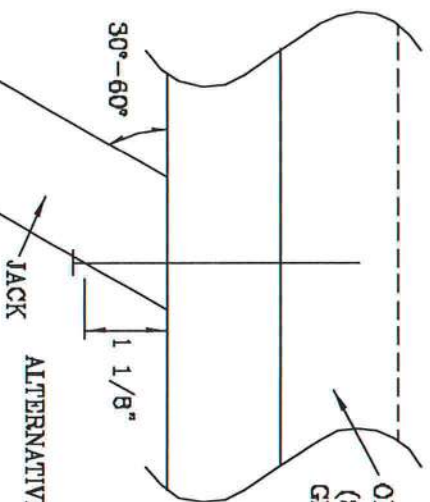
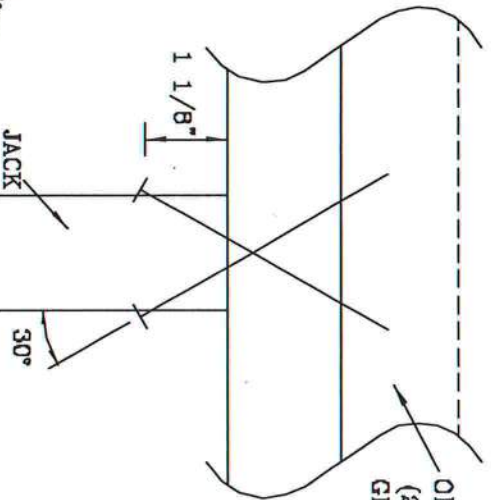
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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 PILES	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES
2	187#	256#	181#	234#	156#	203#	154#	189#
3	286#	383#	271#	351#	234#	304#	230#	288#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

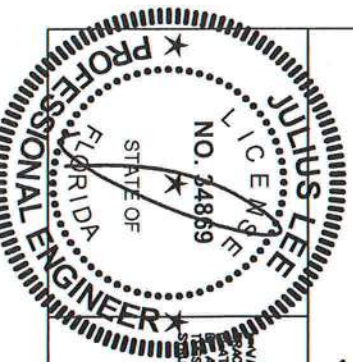
ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

VARIOUS TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS CONSTRUCTION. PUBLISHED BY THE TRUSS ASSOCIATION, 6800 ENTERPRISE LN, NATION, VA 22079. FOR SAFETY PRACTICES REFER TO PERFORMING BEST PRACTICES. UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BRITON CHORD SHALL HAVE A PROPERLY ATTACHED CHORD BELT.



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 5TH AVE. S.W.
DEALAV BEACH, FL 33441-2161

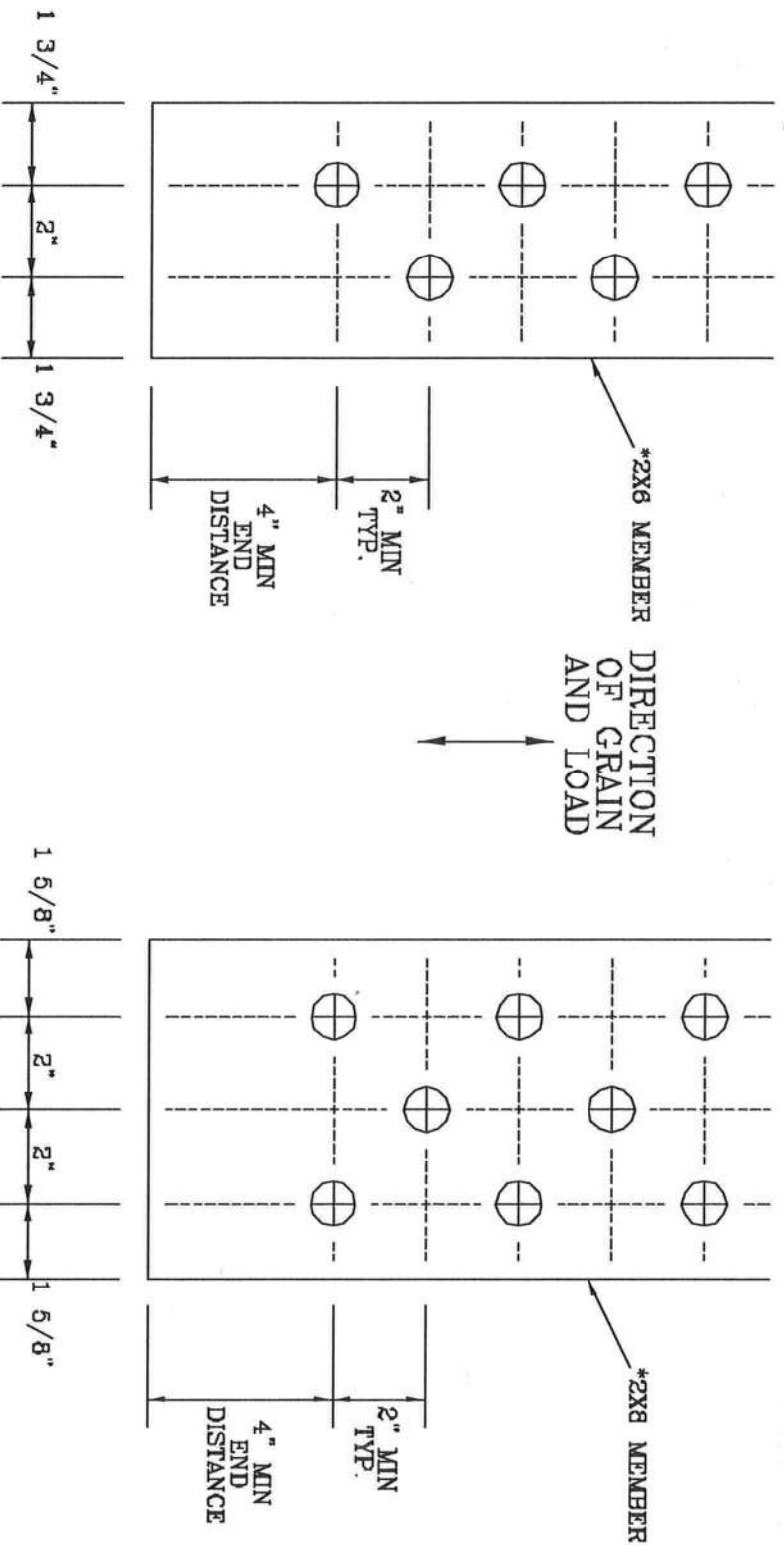
No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONALL103
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.

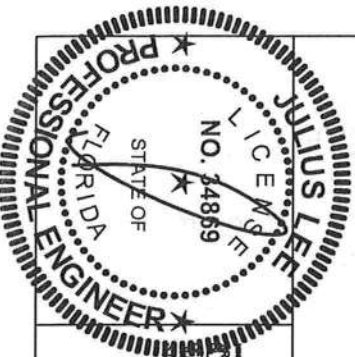
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO SECT. 1-30 BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURING INSTITUTE, 382 ROCKFORD BL., SUITE 201, MARIETTA, GA 30067. ALPINE TRUSS COMPANY, 1400 37th AVENUE, DELRAY BEACH, FL 33444-2461. THESE FUNCTIONS MUST BE OBSERVED AND INDICATED ON ALL TRUSSES PRIOR TO FABRICATING STRUCTURAL PANELS AND DETACH CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID GELINE.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 37th AVENUE
DELRAY BEACH, FL 33444-2461

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSPI103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

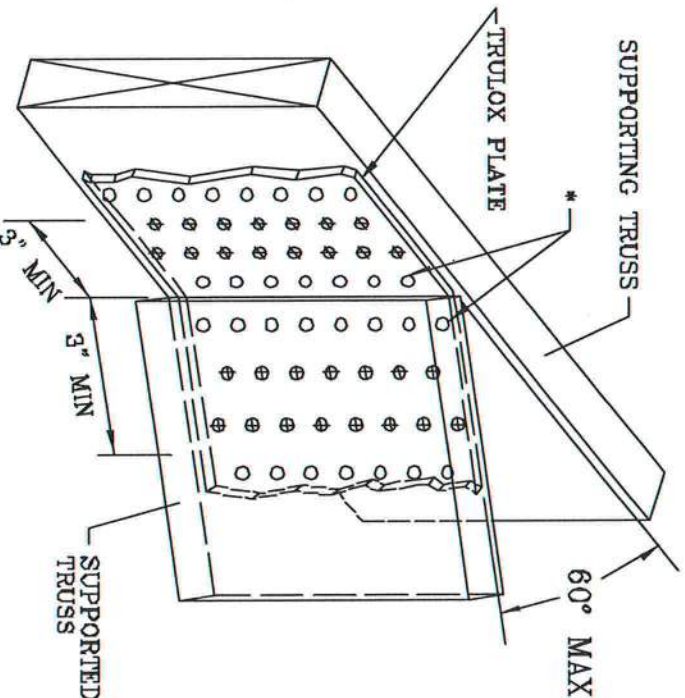
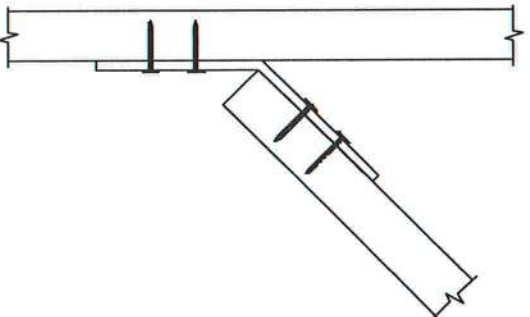
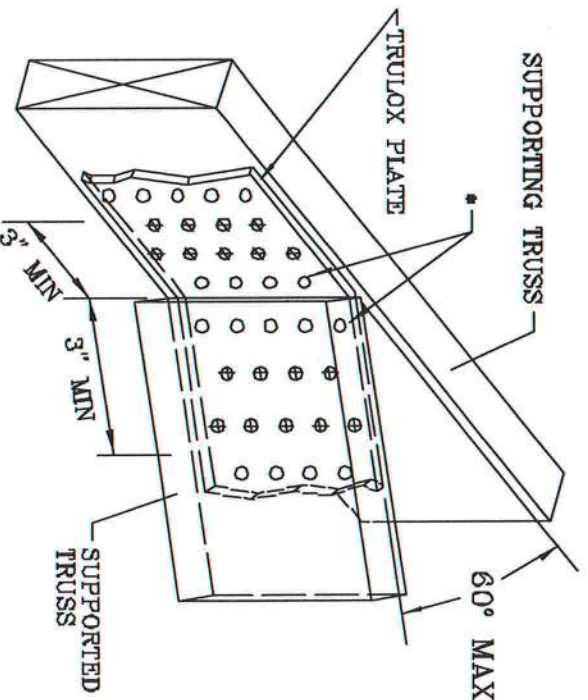
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* 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.

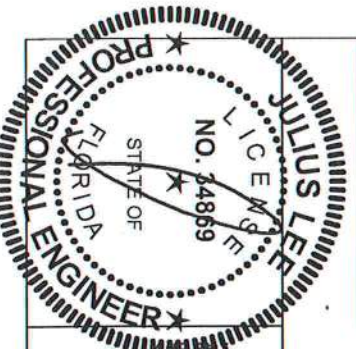


MINIMUM 3X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	15	990#

MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,988/R 1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECTION 1-03 BUILDING DEPARTMENT SPECIFICATIONS FOR TRUSSES AND BRACING. THE DESIGNER IS NOT RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES OR FOR THE PROPER BRACING. 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
DEALY BEACH, FL 33444-2381

No: 34869
STATE OF FLORIDA

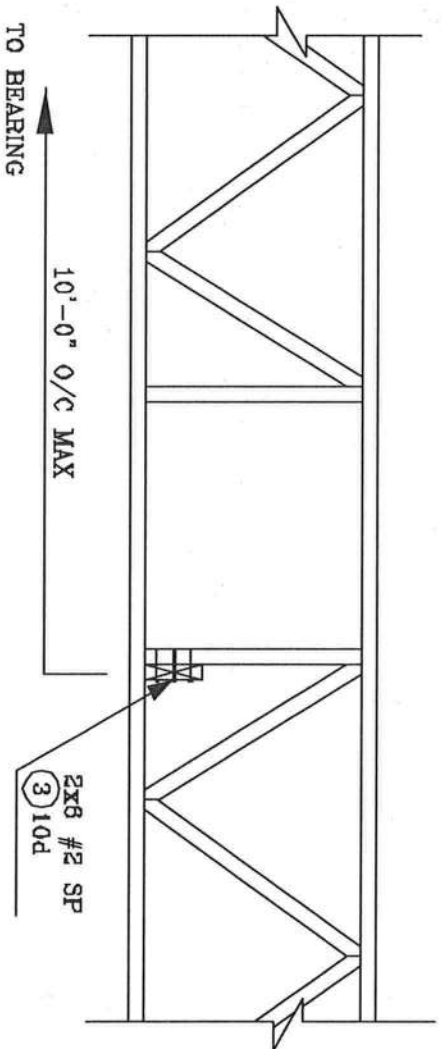
REF TRULOX

DATE 11/26/03

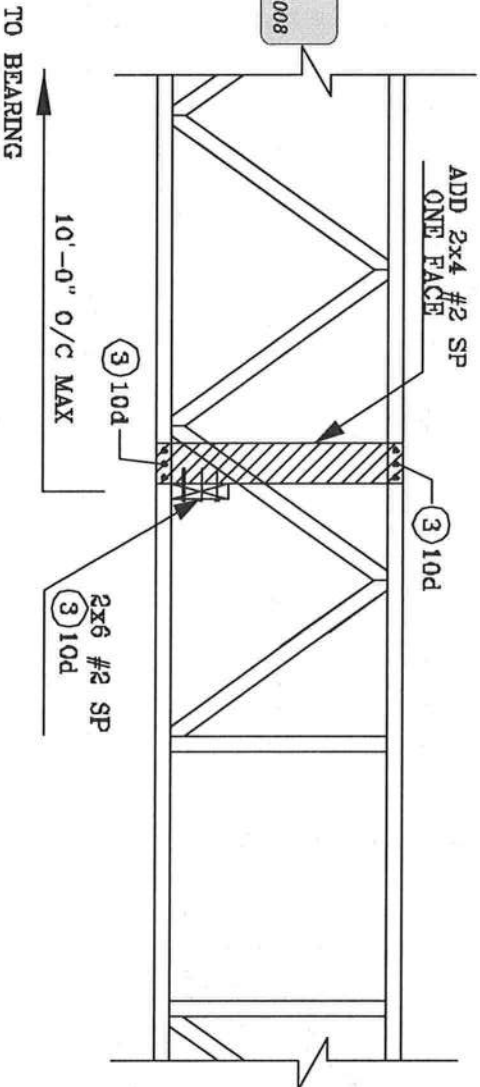
DRWG CNTRULOX1103

-ENG JL

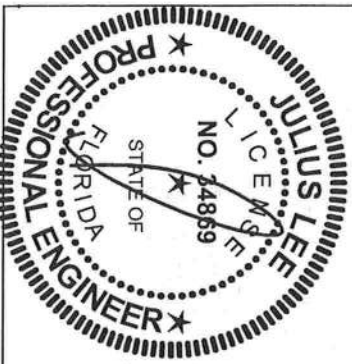
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008



JULIUS LEE'S
CONS. ENGINEERS P.A.
1426 SW 4th AVENUE
MIAMI BEACH, FL 33444-2761

No. 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

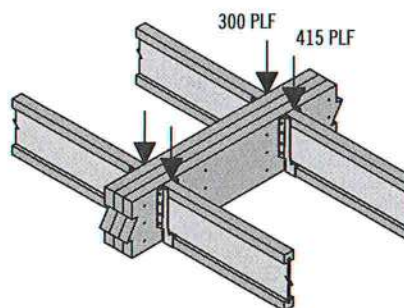
Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
			3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail ⁽¹⁾	2	12"	370	280	280	245		
	3	12"	555	415	415	370		
1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
		12"						
SDS 1/4" x 3 1/2" ⁽⁴⁾	2	24"	680	510	510	455		
		19.2"	850	640	640	565		
		16"	1,020	765	765	680		
		12"						
SDS 1/4" x 6" ⁽³⁾⁽⁴⁾	2	24"				455	465	455
		19.2"				565	580	565
		16"				680	695	680
		12"						
USP WS35 ⁽⁴⁾	2	24"	480	360	360	320		
		19.2"	600	450	450	400		
		16"	715	540	540	480		
		12"						
USP WS6 ⁽³⁾⁽⁴⁾	2	24"				350	525	350
		19.2"				440	660	440
		16"				525	790	525
		12"						
3 3/8" TrussLok ⁽⁴⁾	2	24"	635	475	475	425		
		19.2"	795	595	595	530		
		16"	955	715	715	635		
		12"						
5" TrussLok ⁽⁴⁾	2	24"		500	500	445	480	445
		19.2"		625	625	555	600	555
		16"		750	750	665	725	665
		12"						
6 3/4" TrussLok ⁽⁴⁾	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665
		12"						

- (1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.
- (2) Washers required. Bolt holes to be 9/16" maximum.
- (3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.
- (4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example



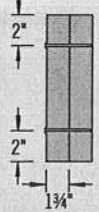
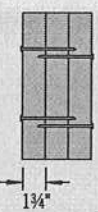
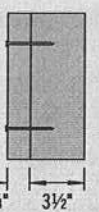



First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:

Two rows of 1/2" bolts or SDS 1/4" x 3 1/2" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws 1/4" x 3 1/2" or WS35 1/4" x 6" or WS6 ⁽¹⁾	4	1,915	1,435 ⁽⁴⁾	1,435	1,275	1,860 ⁽²⁾	1,405 ⁽²⁾
	6	2,870	2,150 ⁽⁴⁾	2,150	1,915	2,785 ⁽²⁾	2,110 ⁽²⁾
	8	3,825	2,870 ⁽⁴⁾	2,870	2,550	3,715 ⁽²⁾	2,810 ⁽²⁾
3 3/8" or 5" TrussLok™	4	2,545	1,910 ⁽⁴⁾	1,910	1,695	1,925 ⁽²⁾	1,775 ⁽²⁾
	6	3,815	2,860 ⁽⁴⁾	2,860	2,545	2,890 ⁽²⁾	2,665 ⁽²⁾
	8	5,090	3,815 ⁽⁴⁾	3,815	3,390	3,855 ⁽²⁾	3,550 ⁽²⁾

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(2) 6" long screws required.

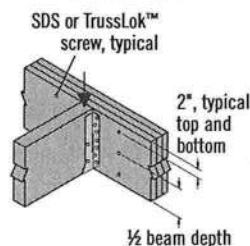
(3) 5" long screws required.

(4) 3 1/2" and 3 3/8" long screws must be installed on both sides.

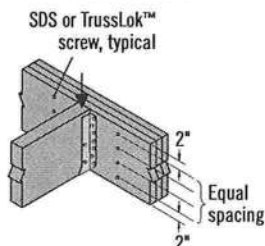
See General Notes on page 38

Connections

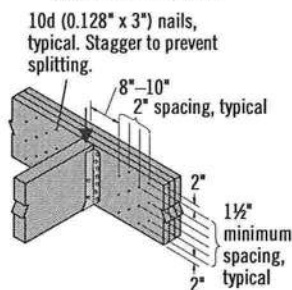
4 or 6 or Screw Connection



8 Screw Connection

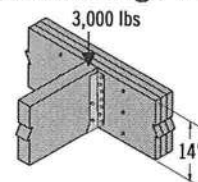


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1 3/4" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1 3/4" assembly, eight 3 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1 3/4" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d-16d (0.148"-0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3 3/8" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed

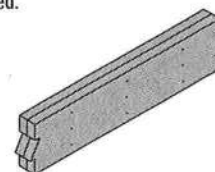
on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

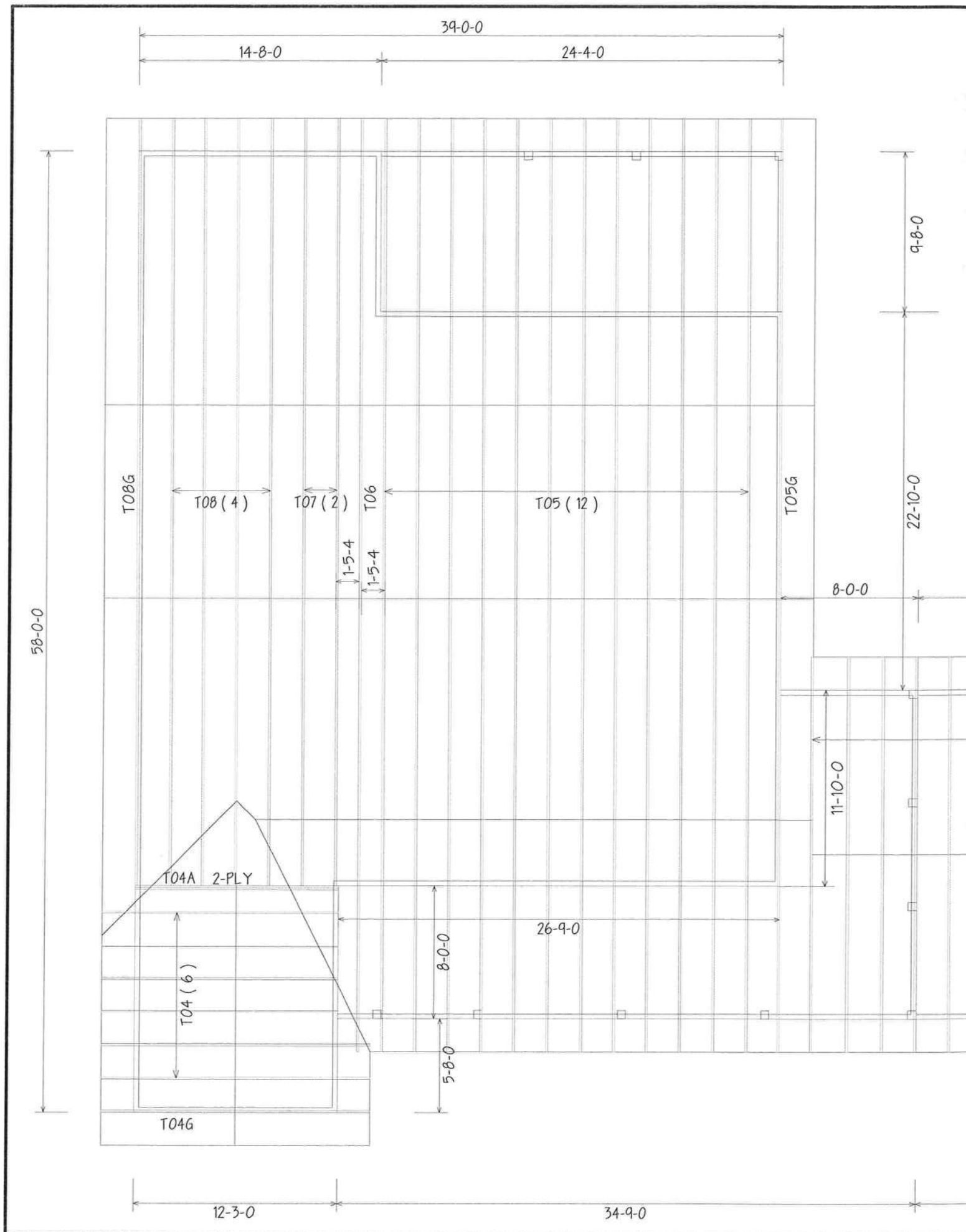
3 1/2" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of 1/2" bolts at 24" on-center staggered.



Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"



6/12 PITCH HOUSE - 2'0" O/H 3/12 PITCH PORCHES/CARPORT

BEARING HEIGHT SCHEDULE



8'-0"

HANGER SCHEDULE 7 - HTU26

NOTES:

- 1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL VIDS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5Y42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
- 8) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date _____

Approved by _____ Date _____



Bunnell

PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville

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

Lake City

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

Sanford

PHONE: 407-322-0059 FAX: 407-322-5555

BUILDER:

NORTON HOMES

LEGAL ADDRESS:

DAMON RES.

MODEL:

CUSTOM

REVISION:

SCALE: NTS

DATE:

7-9-08

DRAWN BY:

K.L.H.

JOB #:

L279547

24-0-0

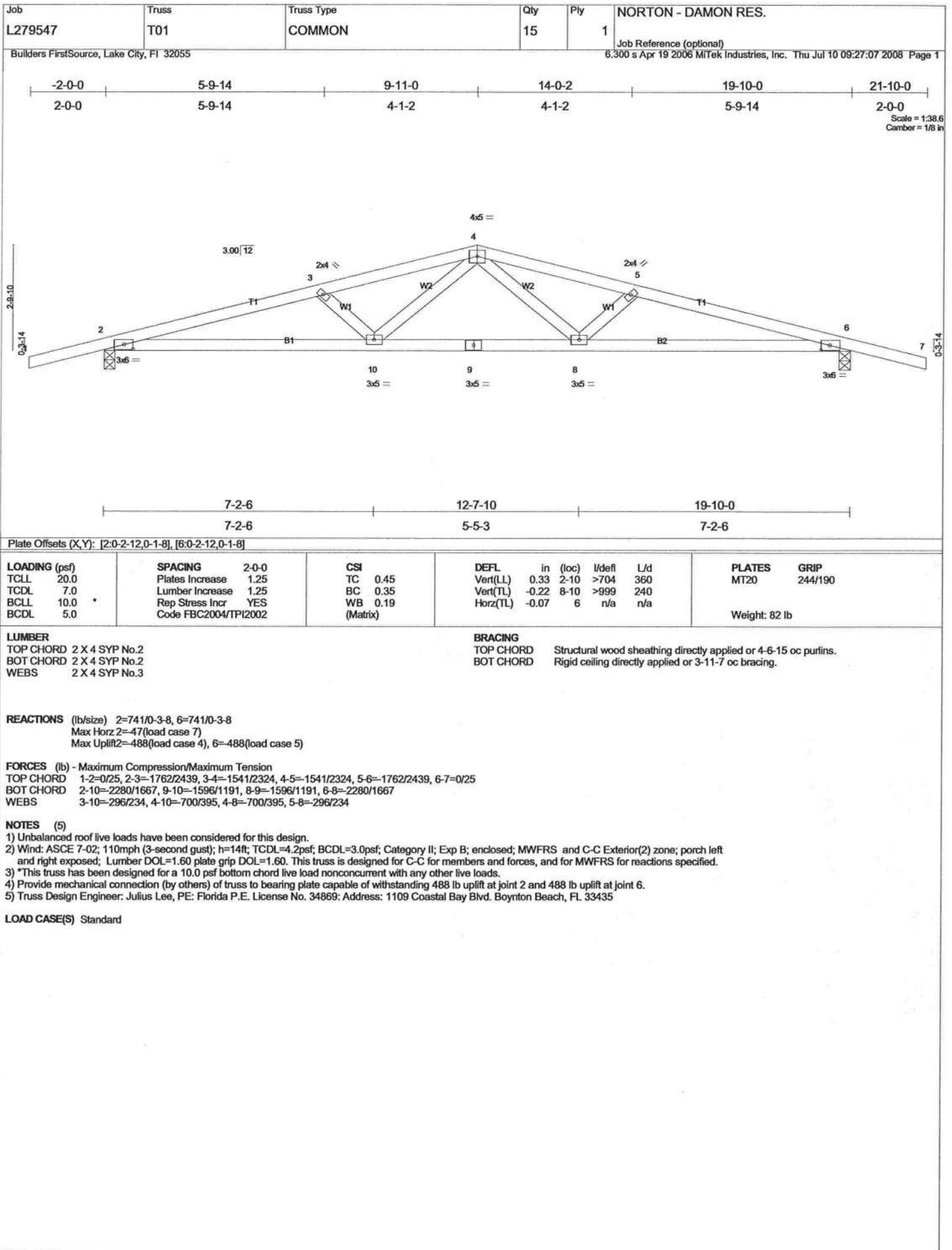
T01 (15)

T01G

19-10-0

ALL FLAT CEILINGS

24-0-0



Job: L279547 Truss: T01G Truss Type: GABLE Qty: 1 Ply: 1 NORTON - DAMON RES.

Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:08 2008 Page 1

Dimensions: -2-0-0, 5-9-14, 9-11-0, 14-0-2, 19-10-0, 21-10-0, 2-0-0, 5-9-14, 4-1-2, 4-1-2, 5-9-14, 2-0-0

Scale = 1/32" = 1'-0" Camber = 3/16"

Plate Offsets (X,Y): [2-0-5-4,0-0-12], [2-0-11-4,0-1-4], [8-0-5-4,0-0-12], [8-0-11-4,0-1-4]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.95	Vert(TL) 0.61	10-11	>379	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.72	Vert(TL) -0.44	10-11	>526	240		
BCLL 10.0	Rep Stress Incr NO	WB 0.29	Horz(TL) -0.12	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						

Weight: 89 lb

LUMBER

TOP CHORD 2 X 4 SYP No.1D "Except"
T1 2 X 4 SYP No.2, T1 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-10-0 oc bracing.

REACTIONS (lb/size) 2=1038/0-5-8, 8=1038/0-5-8
Max Horz 2=-56(load case 5)
Max Uplift 2=909(load case 6), 8=909(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-13/37, 2-3=-2975/4186, 3-4=-2942/4175, 4-5=-2492/3694, 5-6=-2492/3694, 6-7=-2942/4175, 7-8=-2975/4186, 8-9=-13/37
BOT CHORD 2-11=-4025/2876, 10-11=-2521/1830, 8-10=-4025/2876
WEBS 4-11=-624/726, 5-11=-1185/700, 5-10=-1185/700, 6-10=-624/726

NOTES (8)

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

2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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.

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) Gable studs spaced at 2-0-0 oc.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 909 lb uplift at joint 2 and 909 lb uplift at joint 8.

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

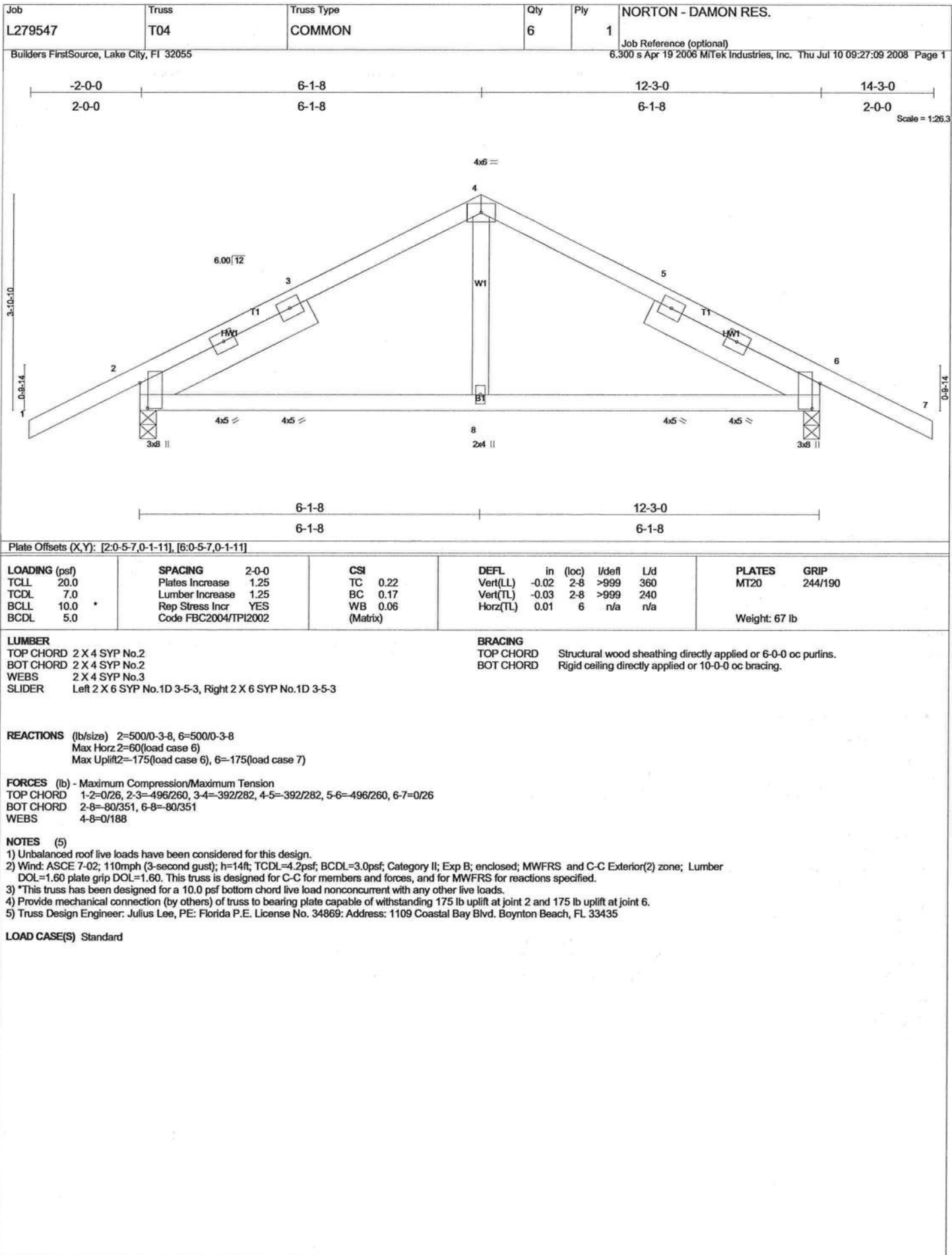
8) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-79(F=-25), 5-9=-79(F=-25), 2-8=-10



Job L279547	Truss T04G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES. Job Reference (optional) 6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:11 2008 Page 1
----------------	---------------	---------------------	----------	----------	---

Builders FirstSource, Lake City, FL 32055

6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:11 2008 Page 1

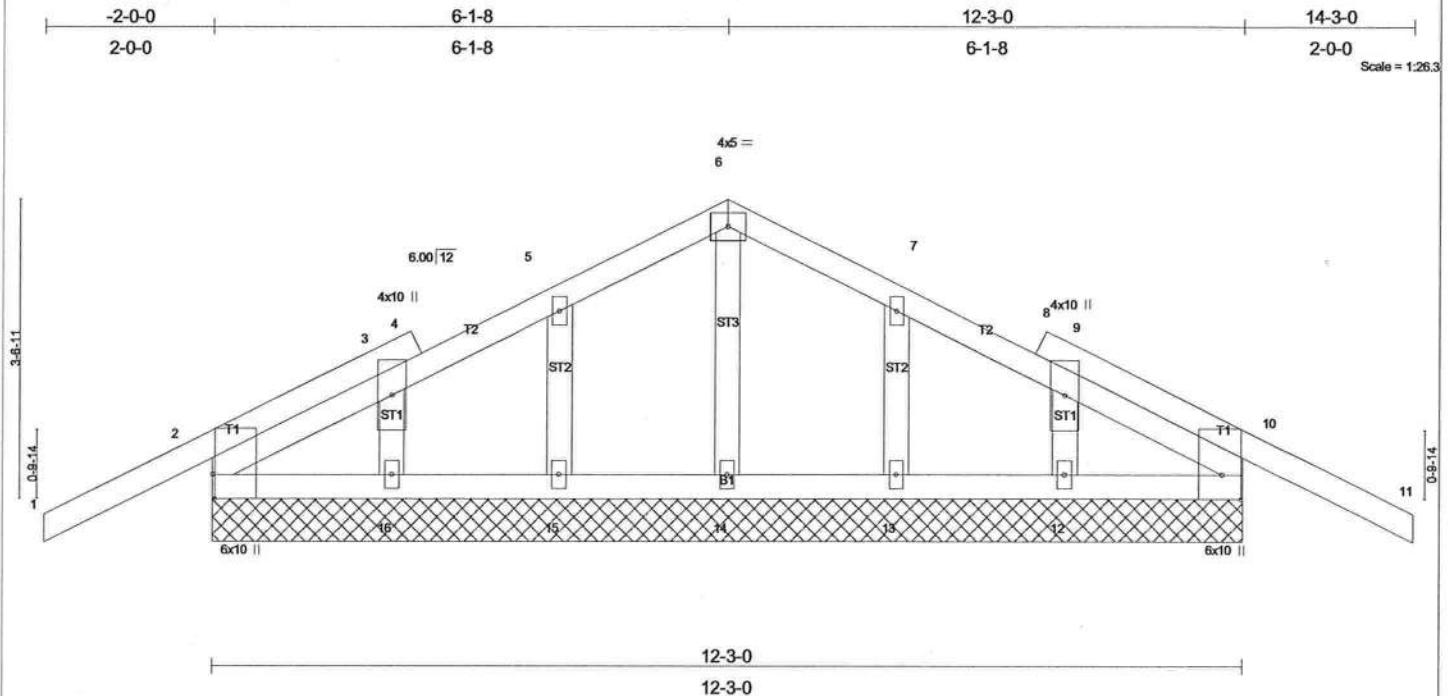


Plate Offsets (X,Y): [2-0-3-8,Edge], [10-0-3-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	Vert(LL)	-0.04	11	n/r	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(TL)	-0.07	11	n/r		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Horz(TL)	0.00	10	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							
							Weight: 67 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=463/12-3-0, 10=463/12-3-0, 14=229/12-3-0, 15=266/12-3-0, 16=144/12-3-0, 13=266/12-3-0, 12=144/12-3-0

Max Horz 2=65(load case 7)

Max Uplift 2=241(load case 6), 10=257(load case 7), 14=23(load case 6), 15=131(load case 6), 16=56(load case 7), 13=131(load case 7), 12=59(load case 6)

Max Grav 2=463(load case 1), 10=463(load case 1), 14=229(load case 1), 15=270(load case 10), 16=144(load case 1), 13=270(load case 11), 12=144(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=15/54, 2-3=119/49, 3-4=21/52, 4-5=11/62, 5-6=63/131, 6-7=63/131, 7-8=11/52, 8-9=21/40, 9-10=119/49, 10-11=15/54

BOT CHORD 2-16=0/90, 15-16=0/90, 14-15=0/90, 13-14=0/90, 12-13=0/90, 10-12=0/90

WEBS 6-14=213/71, 5-15=242/209, 3-16=154/126, 7-13=242/209, 9-12=154/126

NOTES (10)

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

2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; 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 2-0-0 oc.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2, 257 lb uplift at joint 10, 23 lb uplift at joint 14, 131 lb uplift at joint 15, 56 lb uplift at joint 16, 131 lb uplift at joint 13 and 59 lb uplift at joint 12.

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

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=114(F=60), 6-11=114(F=60), 2-10=10

Job L279547	Truss T05	Truss Type POLYNESIAN	Qty 12	Ply 1	NORTON - DAMON RES.
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:12 2008 Page 1		

2-0-0	7-10-11	15-3-15	20-1-5	27-0-0	33-10-11	40-4-1	46-4-9	52-4-0	54-4-0
2-0-0	7-10-11	7-5-3	4-9-6	6-10-11	6-10-11	6-5-6	6-0-8	5-11-7	2-0-0
									Scale = 1/93.6 Camber = 1/16 in

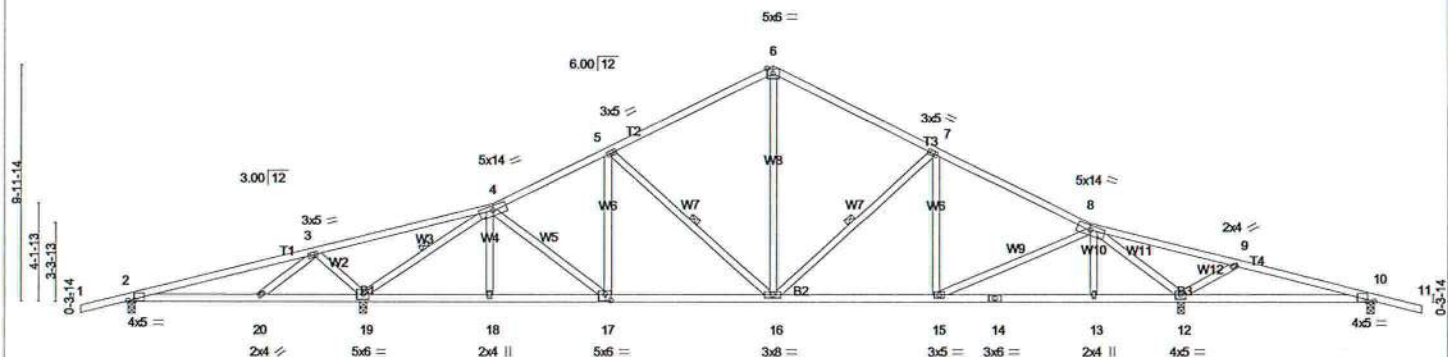


Plate Offsets (X,Y): [2:0-3-4,0-0-2], [10:0-3-4,0-0-2], [17:0-3-0,0-3-0]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Lumber Increase 1.25	BC 0.38	Vert(LL) 0.15 10-12 >636 360	Weight: 283 lb	
BCCL 10.0	Rep Stress Incr YES	WB 0.79	Vert(TL) -0.16 16-17 >999 240		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.05 12 n/a n/a		

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 5-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-19, 5-16, 7-16

REACTIONS

(lb/size) 2=276/0-3-8, 19=1562/0-3-8, 12=1519/0-3-8, 10=205/0-3-8
Max Horz 2=132(load case 7)
Max Uplift 2=267(load case 4), 19=521(load case 6), 12=449(load case 7), 10=246(load case 5)
Max Grav 2=302(load case 10), 19=1562(load case 1), 12=1519(load case 1), 10=237(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=6/204, 3-4=444/692, 4-5=1237/741, 5-6=1026/702, 6-7=1029/705, 7-8=1273/748, 8-9=382/768, 9-10=115/364, 10-11=0/25
BOT CHORD 2-20=145/0, 19-20=249/191, 18-19=330/963, 17-18=332/961, 16-17=361/1054, 15-16=387/1071, 14-15=297/815, 13-14=297/815,
12-13=292/816, 10-12=311/176
WEBS 3-20=304/237, 3-19=566/585, 4-19=1940/1151, 4-18=0/136, 4-17=37/124, 5-17=17/113, 5-16=340/248, 6-16=311/475, 7-16=364/282,
7-15=46/123, 8-15=100/282, 8-13=0/115, 8-12=1934/1028, 9-12=463/400

NOTES (5)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 2, 521 lb uplift at joint 19, 449 lb uplift at joint 12 and 246 lb uplift at joint 10.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Job L279547	Truss T05G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES.	J1970496
----------------	---------------	---------------------	----------	----------	---------------------	----------

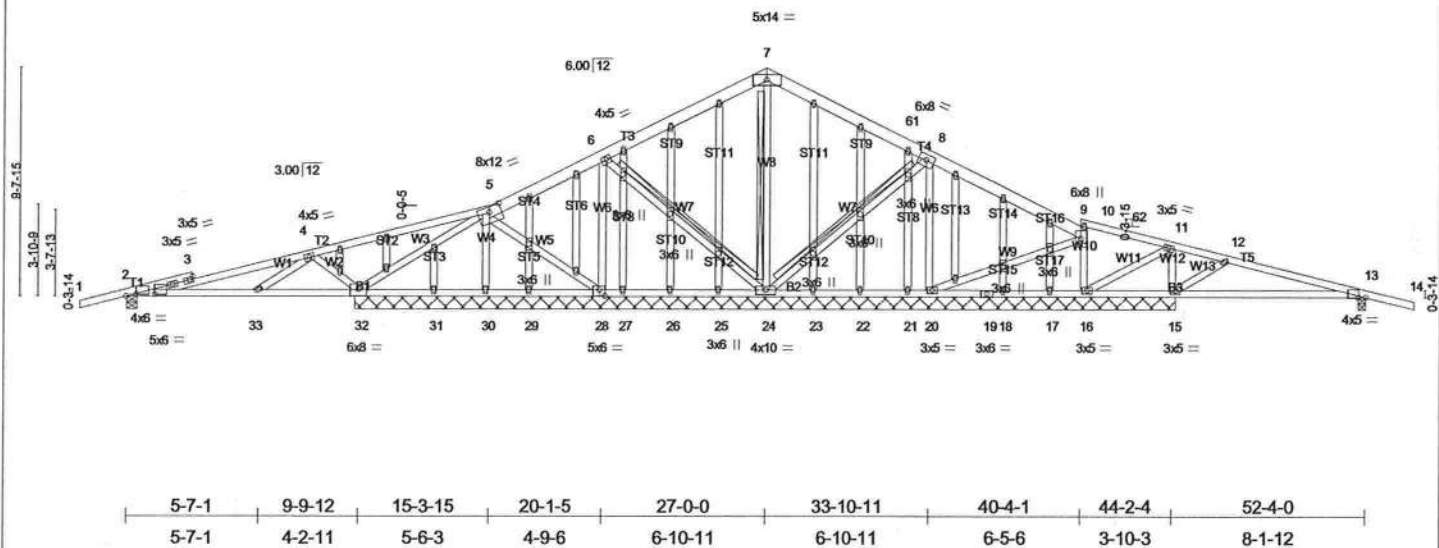
Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:14 2008 Page 1

2-0-0	7-10-11	15-3-15	20-1-5	27-0-0	33-10-11	40-4-1	46-4-9	52-4-0	54-4-0
2-0-0	7-10-11	7-5-3	4-9-6	6-10-11	6-10-11	6-5-6	6-0-8	5-11-7	2-0-0

Scale = 1/93.6
Camber = 1/16 in



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.76	Vert(LL)	0.17 13-15	>573	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.32	Vert(TL)	-0.15 13-15	>662	240		
BCLL 10.0	Rep Stress Incr	NO	WB 0.58	Horz(TL)	0.01 15	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						

Weight: 401 lb

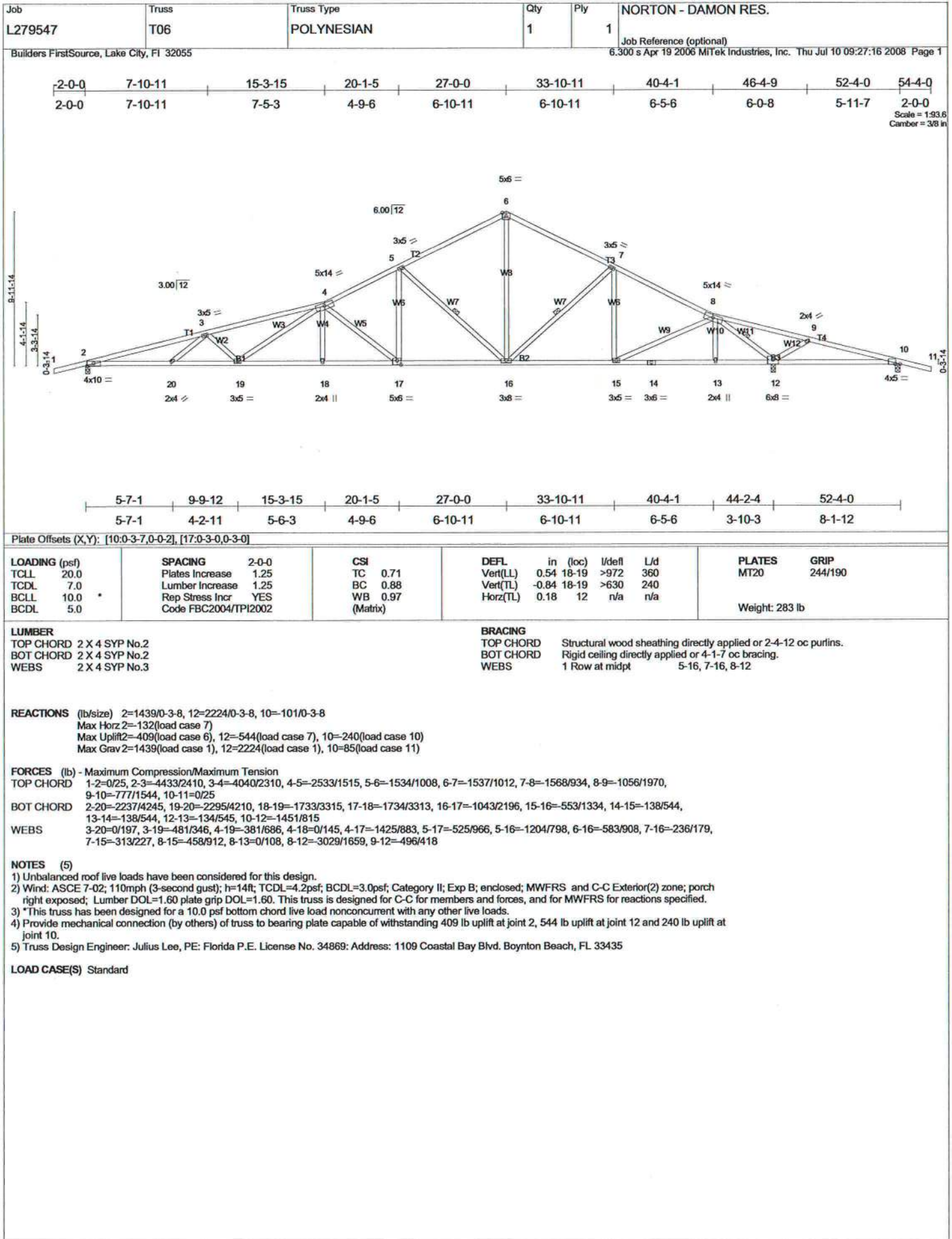
LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D "Except"	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T2 2 X 4 SYP No.1D, T5 2 X 4 SYP No.2, T1 2 X 4 SYP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2 X 4 SYP No.2	T-Brace: 2 X 4 SYP No.3 - 6-24, 7-24, 8-24
WEBS 2 X 4 SYP No.3	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
OTHERS 2 X 4 SYP No.3	Brace must cover 90% of web length.

REACTIONS (lb/size)	2=690/0-5-8, 32=1197/34-8-0, 30=656/34-8-0, 28=482/34-8-0, 24=990/34-8-0, 20=775/34-8-0, 16=605/34-8-0, 15=567/34-8-0, 13=342/0-3-8, 25=20/34-8-0, 26=22/34-8-0, 27=9/34-8-0, 29=25/34-8-0, 31=17/34-8-0, 23=20/34-8-0, 22=22/34-8-0, 21=7/34-8-0, 18=27/34-8-0, 17=24/34-8-0
Max Horz 2=170(load case 7)	
Max Uplift 2=641(load case 4), 32=1020(load case 4), 30=485(load case 6), 28=373(load case 6), 24=703(load case 6), 20=602(load case 7), 16=452(load case 7), 15=417(load case 5), 13=328(load case 5), 17=30(load case 6)	
Max Grav 2=690(load case 10), 32=1197(load case 10), 30=656(load case 1), 28=493(load case 10), 24=990(load case 1), 20=790(load case 11), 16=605(load case 11), 15=567(load case 11), 13=342(load case 11), 25=59(load case 2), 26=65(load case 2), 27=27(load case 2), 29=78(load case 2), 31=72(load case 2), 23=59(load case 2), 22=65(load case 2), 21=21(load case 2), 18=81(load case 2), 17=64(load case 2)	

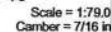
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD 1-2=30/53, 2-3=237/356, 3-4=203/323, 4-5=985/992, 5-6=124/191, 6-7=144/232, 7-61=0/196, 8-61=182/273, 8-9=281/301, 10-62=25/44, 11-62=66/57, 11-12=36/118, 12-13=191/148, 13-14=0/25	
BOT CHORD 2-33=217/197, 32-33=42/141, 31-32=205/356, 30-31=205/356, 29-30=178/331, 28-29=178/331, 27-28=18/207, 26-27=18/207, 25-26=18/207, 24-25=18/207, 23-24=0/142, 22-23=0/142, 21-22=0/142, 20-21=0/142, 19-20=0/119, 18-19=0/119, 17-18=0/119, 16-17=0/119, 15-16=100/162, 13-15=65/147	
WEBS 4-33=361/291, 4-32=1171/1306, 5-32=787/879, 5-30=637/603, 5-28=142/210, 6-28=594/547, 6-24=37/145, 7-24=811/661, 8-24=218/331, 8-20=806/802, 9-20=58/121, 9-16=673/699, 9-10=192/193, 11-16=37/142, 12-15=291/267, 11-15=333/239	

- NOTES** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCCL=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.
 - 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"
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 641 lb uplift at joint 2, 1020 lb uplift at joint 32, 485 lb uplift at joint 30, 373 lb uplift at joint 28, 703 lb uplift at joint 24, 602 lb uplift at joint 20, 452 lb uplift at joint 16, 417 lb uplift at joint 15, 328 lb uplift at joint 13 and 30 lb uplift at joint 17.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard	
1) Regular: Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-5=114(F=60), 5-7=114(F=60), 7-61=114(F=60), 9-61=141(F=87), 10-62=141(F=87), 14-62=54, 2-13=10	



6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 10 09:27:18 2008 Page 1



Weight: 253 lb

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 2-2-0 oc bracing.
1 Row at midpt 4-15, 5-14, 6-14, 7-14

Max Horz2=180(load case 6)
Max Uplift2=-429(load case 6), 10=-282(load case 7)

WEBS 3-18=0/193, 3-17=476/341, 4-17=378/682, 4-16=0/145, 4-15=1509/931, 5-15=555/1019, 5-14=1254/826, 6-14=726/1156, 7-14=432/317, 7-13=10/161, 8-13=27/188, 8-11=852/554, 9-11=1044/1826

7) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Job Reference (optional)



Job L279547	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	NORTON - DAMON RES.
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.300 s Apr 19 2006 MITek Industries, Inc. Thu Jul 10 09:27:21 2008 Page 1

-2-0-0	15-3-15	27-0-0	40-4-1	44-4-0
2-0-0	15-3-15	11-8-1	13-4-1	3-11-15
Scale = 1:78.0				

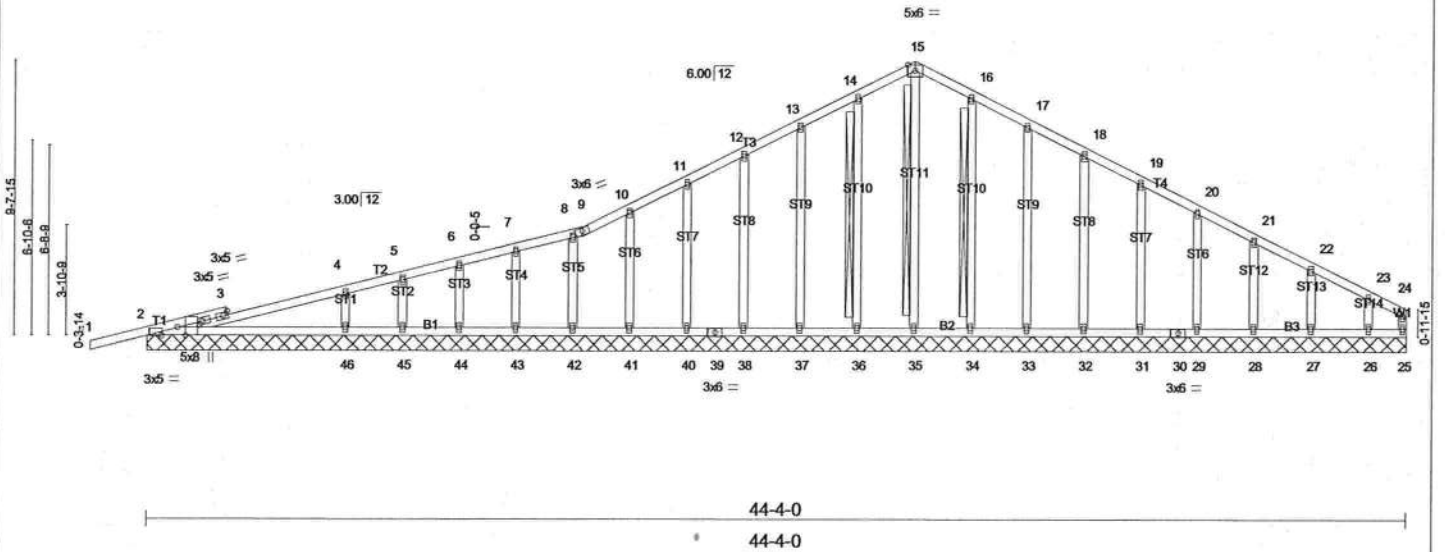


Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-6-12,Edge], [3-0-1-12,0-1-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	PLATES	GRIP
TCCL 20.0	Plates Increase 1.25	TC 0.35	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCCL 7.0	Lumber Increase 1.25	BC 0.22	Vert(TL) 0.03 1 n/r 90		
BCLL 10.0	Rep Stress Incr YES	WB 0.10	Horz(TL) 0.01 25 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
Weight: 275 lb					

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	T-Brace: 2 X 4 SYP No.3 - 15-35, 14-36, 16-34
OTHERS 2 X 4 SYP No.3	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=303/44-4-0, 25=24/44-4-0, 35=161/44-4-0, 36=131/44-4-0, 37=127/44-4-0, 38=128/44-4-0, 40=129/44-4-0, 41=125/44-4-0, 42=123/44-4-0, 43=118/44-4-0, 44=174/44-4-0, 45=56/44-4-0, 46=455/44-4-0, 34=131/44-4-0, 33=127/44-4-0, 32=128/44-4-0, 31=128/44-4-0, 29=128/44-4-0, 28=128/44-4-0, 27=127/44-4-0, 26=146/44-4-0
Max Horz 2=186(load case 6)
Max Uplift 2=211(load case 4), 25=43(load case 10), 36=73(load case 6), 37=92(load case 6), 38=85(load case 6), 40=87(load case 6), 41=83(load case 6), 42=63(load case 6), 43=67(load case 4), 44=87(load case 4), 45=56(load case 1), 46=213(load case 4), 34=69(load case 7), 33=93(load case 7), 32=85(load case 7), 31=87(load case 7), 29=86(load case 7), 28=90(load case 7), 27=74(load case 7), 26=189(load case 7)
Max Grav 2=303(load case 1), 25=151(load case 7), 35=168(load case 7), 36=135(load case 10), 37=127(load case 1), 38=128(load case 10), 40=129(load case 10), 41=125(load case 1), 42=123(load case 1), 43=118(load case 10), 44=174(load case 1), 45=14(load case 7), 46=455(load case 1), 34=133(load case 11), 33=127(load case 11), 32=128(load case 1), 31=128(load case 1), 29=128(load case 11), 28=128(load case 1), 27=130(load case 11), 26=146(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-3=207/38, 3-4=199/90, 4-5=138/33, 5-6=132/62, 6-7=104/56, 7-8=84/71, 8-9=71/87, 9-10=68/100, 10-11=41/138, 11-12=9/173, 12-13=0/209, 13-14=0/265, 14-15=0/312, 15-16=16/312, 16-17=14/265, 17-18=14/205, 18-19=14/148, 19-20=14/91, 20-21=14/66, 21-22=46/66, 22-23=94/67, 23-24=160/67, 24-25=94/30
BOT CHORD 2-46=41/132, 45-46=41/132, 44-45=41/132, 43-44=41/132, 42-43=41/132, 41-42=41/132, 40-41=41/132, 39-40=41/132, 38-39=41/132, 37-38=41/132, 36-37=41/132, 35-36=41/132, 34-35=41/132, 33-34=41/132, 32-33=41/132, 31-32=41/132, 30-31=41/132, 29-30=41/132, 28-29=41/132, 27-28=41/132, 26-27=41/132, 25-26=41/132
WEBS 15-35=166/0, 14-36=115/88, 13-37=107/118, 12-38=108/109, 11-40=109/111, 10-41=105/111, 8-42=102/101, 7-43=101/85, 6-44=140/112, 5-45=6/28, 4-46=356/254, 16-34=113/88, 17-33=107/118, 18-32=108/109, 19-31=108/111, 20-29=108/110, 21-28=108/111, 22-27=111/107, 23-26=110/148

NOTES (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCCL=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 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2, 43 lb uplift at joint 25, 73 lb uplift at joint 36, 92 lb uplift at joint 37, 85 lb uplift at joint 38, 87 lb uplift at joint 40, 83 lb uplift at joint 41, 63 lb uplift at joint 42, 67 lb uplift at joint 43, 87 lb uplift at joint 44, 56 lb uplift at joint 45, 213 lb uplift at joint 46, 69 lb uplift at joint 34, 93 lb uplift at joint 33, 85 lb uplift at joint 32, 87 lb uplift at joint 31, 86 lb uplift at joint 29, 90 lb uplift at joint 28, 74 lb uplift at joint 27 and 189 lb uplift at joint 26.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

#2 HIP OR COMMON TRUSS

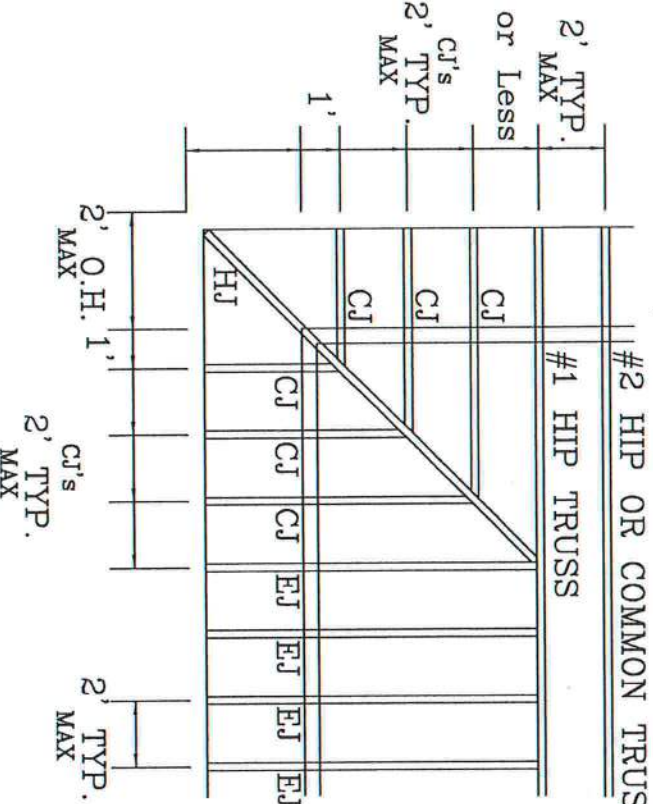
7'0" MAX

STATE OF

MAX PSF
MAX PSF
MAX PSF

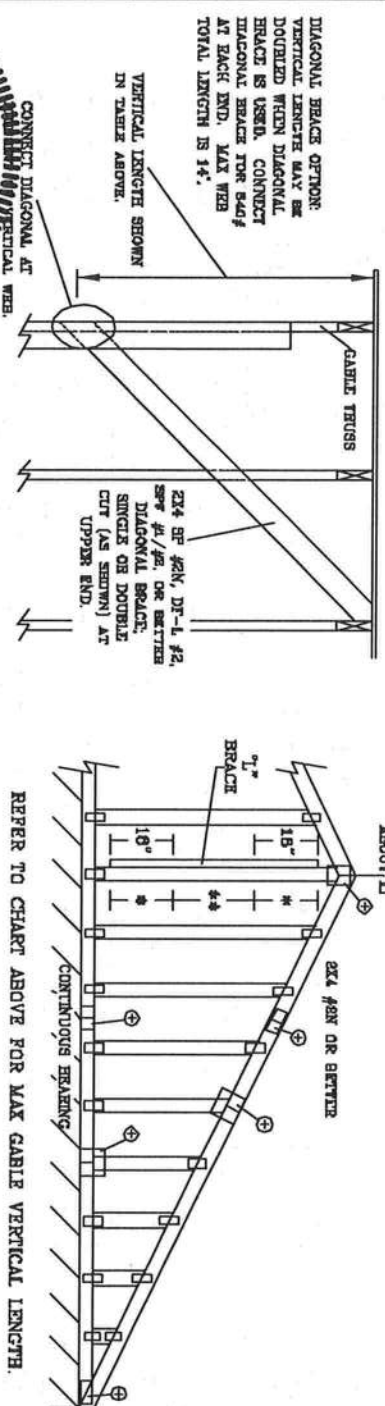
REVIEWED

SEE FOR FOR THE DOWN



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

MAX GABLE VERTICAL LENGTH														
CABLE VERTICAL SPACING	2x4 SPECIES	BRACE GRADE	NO BRACES	(1) 1x4 "L" BRACE *		(1) 2x4 "L" BRACE *		(2) 2x4 "L" BRACE **		(1) 2x6 "L" BRACE *		(2) 2x8 "L" BRACE **		
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B			
24" O.C.	SPF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	6' 3"	6' 3"	10' 10"	11' 2"	12' 11"	13' 3"	
		#3 STUD	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	6' 3"	6' 3"	10' 1"	10' 1"	12' 11"	12' 11"	
	HF	STANDARD	3' 3"	4' 2"	4' 2"	6' 5"	6' 6"	6' 3"	6' 3"	10' 0"	10' 0"	12' 11"	12' 11"	
		#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	7' 5"	8' 3"	8' 3"	11' 8"	11' 8"	13' 11"	
	SP	#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 3"	10' 10"	11' 8"	12' 11"	13' 11"	
		#3	3' 6"	5' 0"	6' 0"	6' 8"	6' 8"	8' 3"	8' 3"	10' 4"	10' 4"	12' 11"	13' 7"	
	DFL	STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 3"	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	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	6' 6"	6' 6"	12' 6"	12' 6"	14' 0"	14' 0"
			#3 STUD	3' 8"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
HF		STANDARD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	
		#1	3' 9"	5' 8"	6' 2"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	
SP		#2	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	8' 5"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 2"	6' 8"	7' 2"	7' 11"	8' 8"	9' 6"	10' 2"	12' 6"	13' 5"	13' 5"	14' 0"	14' 0"
DFL		STUD	4' 0"	6' 8"	6' 2"	7' 11"	8' 8"	9' 6"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"	
		STANDARD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	8' 5"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"	
12" O.C.		SPF	#1 / #2	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
			#3 STUD	4' 3"	7' 4"	7' 4"	8' 9"	8' 11"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"
	HF	STANDARD	4' 2"	6' 11"	6' 11"	8' 9"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
		#1	4' 2"	6' 11"	6' 11"	8' 9"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
	SP	#2	4' 3"	7' 4"	7' 4"	8' 9"	8' 11"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"	
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
	DFL	STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	
		STANDARD	4' 2"	6' 11"	6' 11"	8' 9"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"	



BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUCE-PINE-LAR	GROUP B:
#1 / #2	#1 / #2
STUD	STUD
STANDARD	STANDARD
DOUGLAS FIR-LARCH	
#1 / #2	#1 / #2
STUD	STUD
STANDARD	STANDARD

CABLE TRUSS DETAIL NOTES:

1. LIVE LOAD DEADLOAD COMBINATION IS L/240.

2. PROVIDE UPLIFT CONNECTIONS FOR 136 PSF OVER CONTINUOUS BEARING (6 PSF TO DEAD LOAD).

3. CABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 8' 0" OVERHANG, OR 12' PLYWOOD OVERHANG.

4. ATTACH EACH "L" BRACE WITH 104 NAILS.

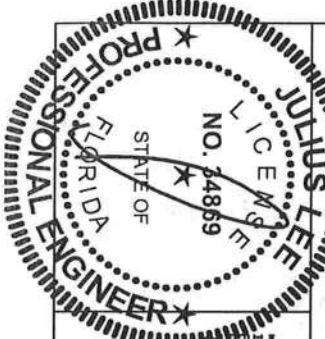
5. * FOR (1) "L" BRACE, SPACE NAILS AT 8" O.C. ON 18" END ZONES AND 4" O.C. BETWEEN ZONES.

6. * FOR (2) "L" BRACES, SPACE NAILS AT 8" O.C. ON 18" END ZONES AND 4" O.C. BETWEEN ZONES.

7. "L" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO. PLATES
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2X6

+ REFER TO COMBINATION DESIGN FOR PLATE, SPRUCE, AND BEEL PLATES.



REVIEWED

By Julius Lee at 12:00 pm, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 ST. 4th AVENUE
DELRAY BEACH, FL 33444-8161

No. 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE 7-02-CAB1015

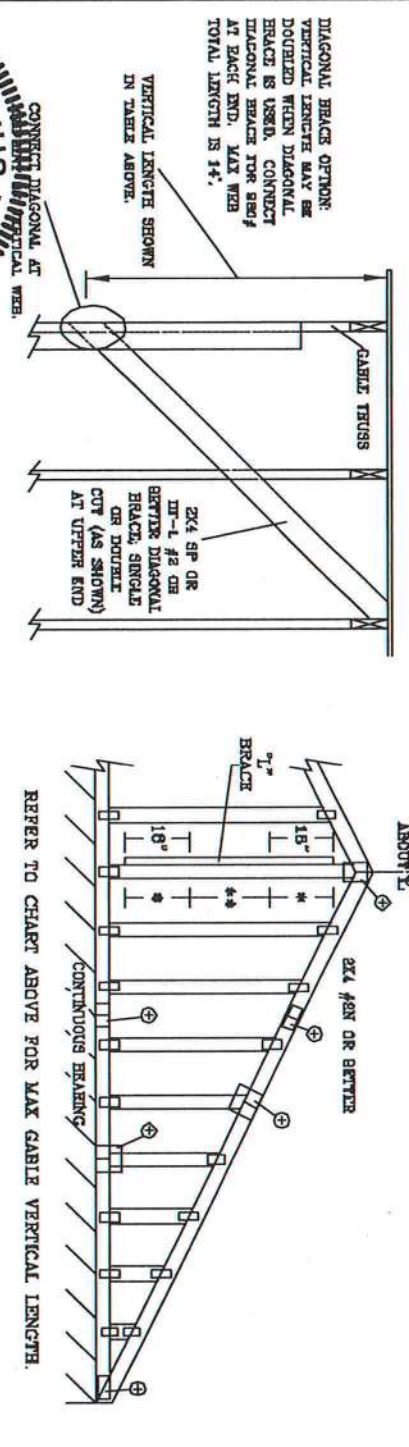
DATE 11/26/03

DRWG. MTRX STD. CABLE 15 E ET

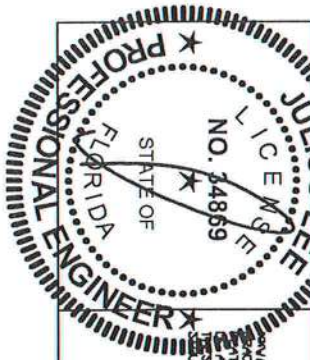
-ENG

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

MAX GABLE VERTICAL LENGTH		BRACE		NO		(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE *	
GABLE VERTICAL SPECIES	GRADE	BRACE	NO	GROUP A		GROUP B		GROUP A		GROUP B		GROUP A		GROUP B	
				#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3	#1 / #2	#3
24" O.C.	SPF	D.F.L.	STUD	3' 2"	5' 6"	6' 8"	8' 0"	6' 8"	8' 0"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
				3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
16" O.C.	SPF	D.F.L.	STUD	3' 2"	5' 6"	6' 8"	8' 0"	6' 8"	8' 0"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
				3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
12" O.C.	SPF	D.F.L.	STUD	3' 2"	5' 6"	6' 8"	8' 0"	6' 8"	8' 0"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
				3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"
				3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"	3' 1"

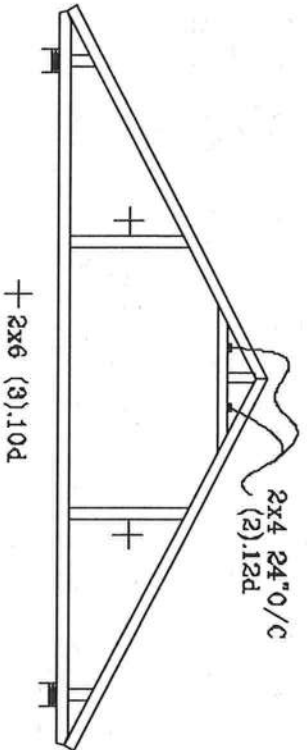


CABLE TRUSS DETAIL NOTES:	
LIVE LOAD DEFLECTION CRITERIA IS L/240.	
PROVIDE UPLIFT CONNECTIONS FOR 160 PSF OVER CONTINUOUS BEAMING (6 PSF TO DEAD LOAD).	
CABLE END SUPPORTS LOAD FROM 4" O" PLYWOOD OVERHANG.	
ATTACH EACH "L" BRACE WITH 104 NAILS.	
* FOR (1) "L" BRACE, SPACE NAILS AT 8" O.C. IN 16" END ZONES AND 4" O.C. BETWEEN ZONES.	
** FOR (2) "L" BRACES, SPACE NAILS AT 8" O.C. IN 16" END ZONES AND 6" O.C. BETWEEN ZONES.	
"L" BRACING MUST BE A MINIMUM OF 60X OR WEB MEMBER LENGTH.	
CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 2' 0"	1X4 OR 2X4
GREATER THAN 2' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4
+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND BEEL PLATES.	

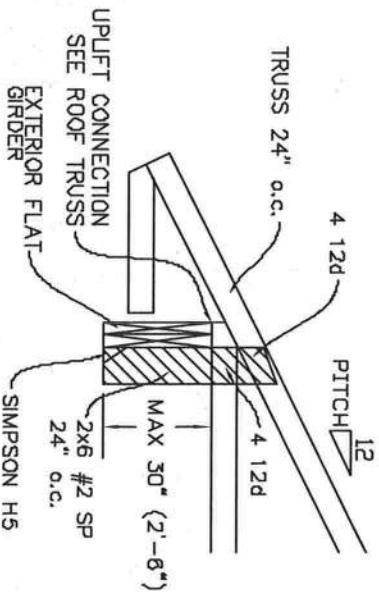


REVIEWED	
By Julius Lee at 12:00 pm, Jun 11, 2008	
JULIUS LEE'S CONS. ENGINEERS P.A.	
1456 ST 4th AVENUE, DELRAY BEACH, FL 33444-2601	
No. 34869	
STATE OF FLORIDA	
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	
REF	ASCE 7-02-GAB10000
DATE	11/26/03
DWG	WEEK STD GAB10 20 2 YI
-ENG	

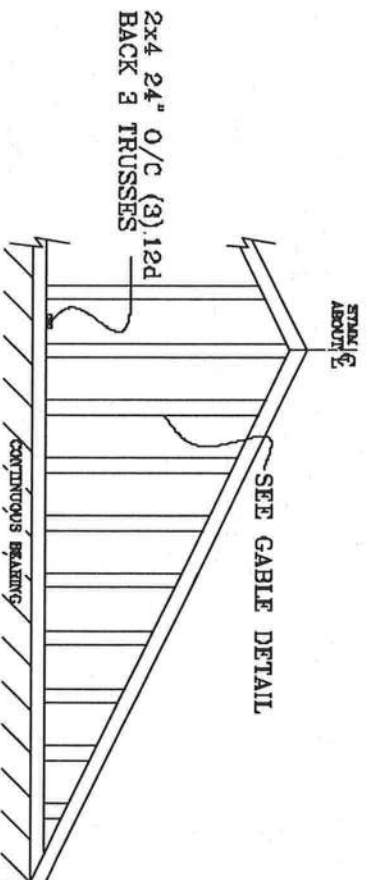
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

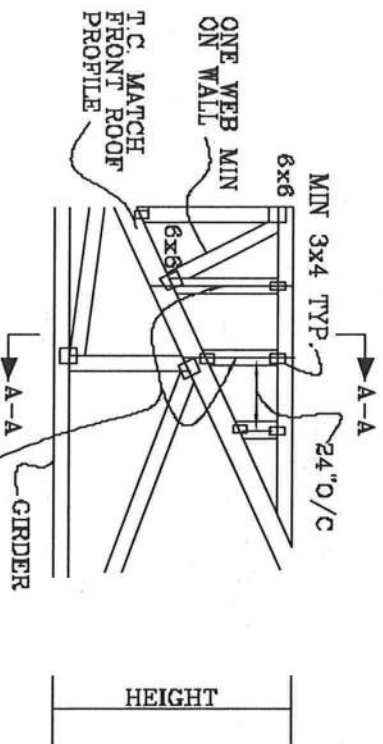


GABLE END TRUSS DETAIL



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

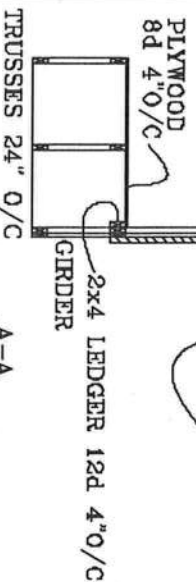
TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT

ROOF 24" o/c

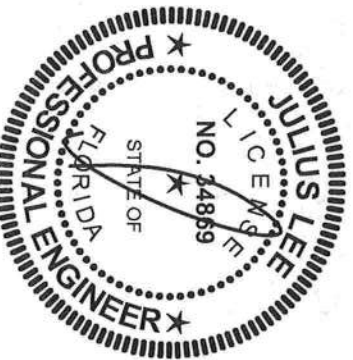
SEE CABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



A-A

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
MIAMI BEACH, FL 33444-2661

No. 34868
STATE OF FLORIDA



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

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

PIGGYBACK DETAIL

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.

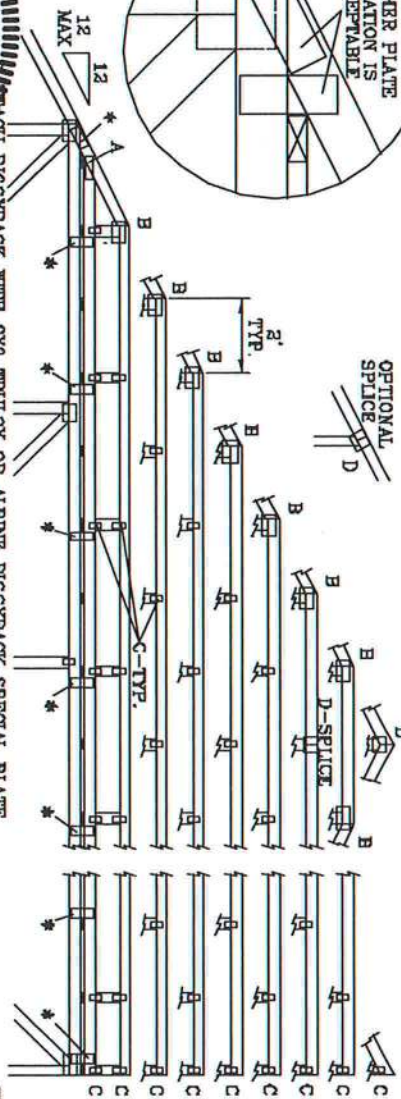
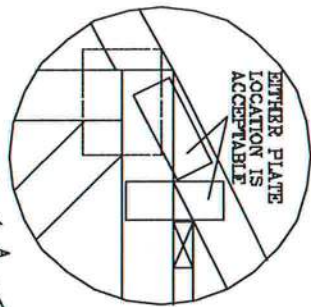
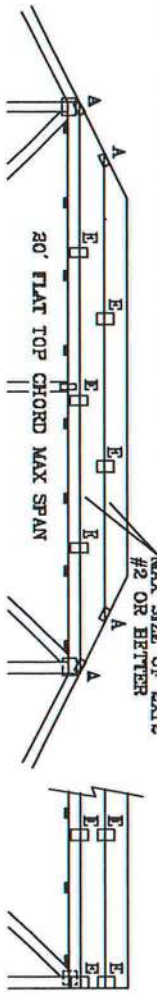
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

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

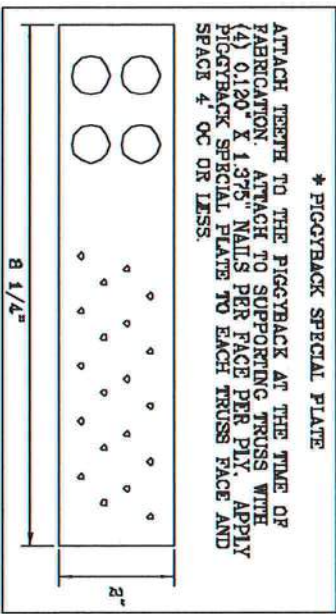
FRONT FACE (E*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	6X6	6X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X5	6X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

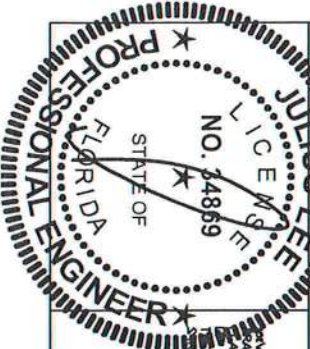
ATTACH TRUSS PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "I" BRACE SAME GRADE SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2X4 "I" BRACE SAME GRADE SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.



JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 SW 4th AVENUE
DURHAM BEACH, FL 33441-2161

MAX LOADING	REF
55 PSF AT	PIGGYBACK
1.33 DUR. FAC.	DATE 09/12/07
50 PSF AT	DRWG/ITERK STD PIGGY
1.25 DUR. FAC.	-ENG JL
47 PSF AT	
1.15 DUR. FAC.	
SPACING 24.0"	



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

OVERSIGHTING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. REFER TO SEALED DESIGN FOR DASHED PLATES. 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. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

No. 34869
STATE OF FLORIDA

THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

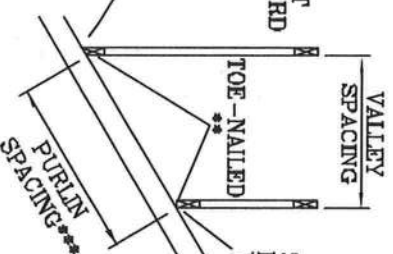
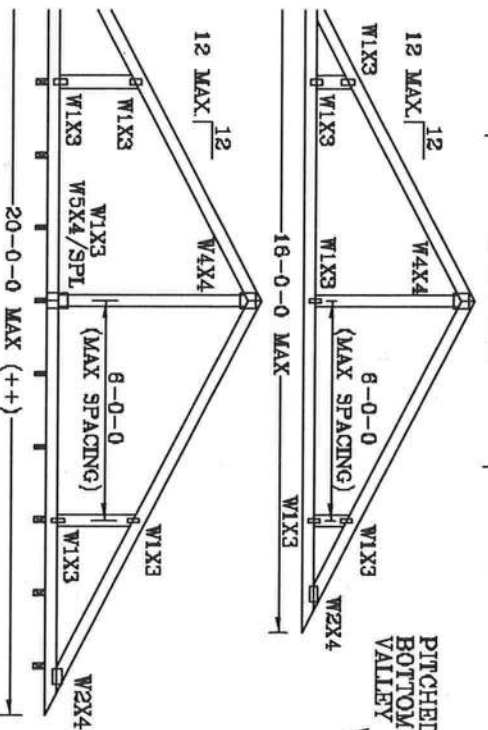
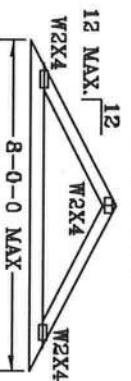
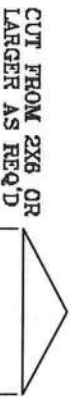
VALLEY TRUSS DETAIL

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.

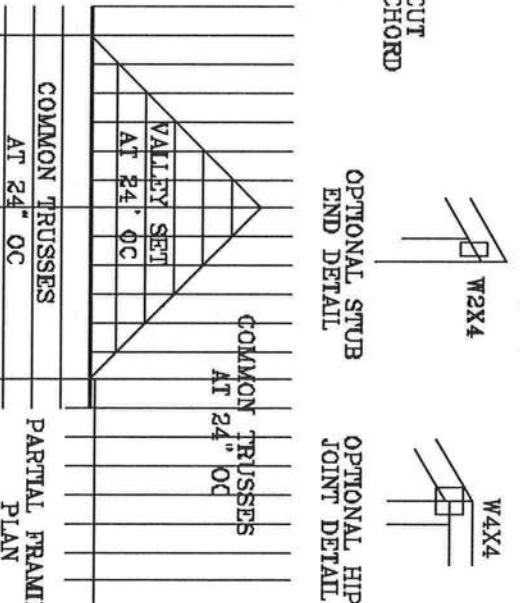
* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

(2) 16d BOX (0.135" X 3.6") 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 D1=6 PSF.



*** 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.



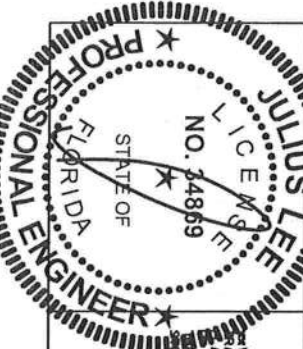
THIS DRAWING REPLACES DRAWING A105

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVE
DELRAY BEACH, FL 33444-8101

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		

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008



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.

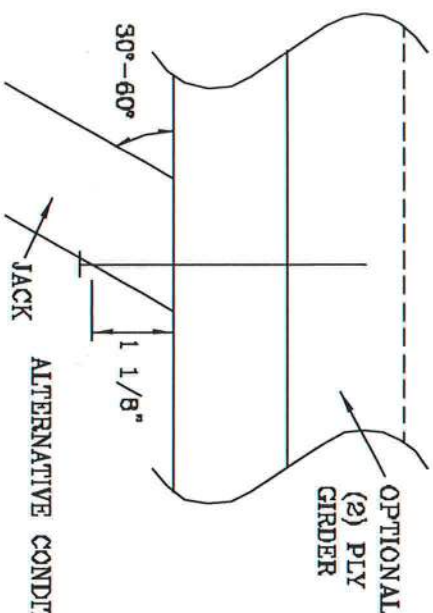
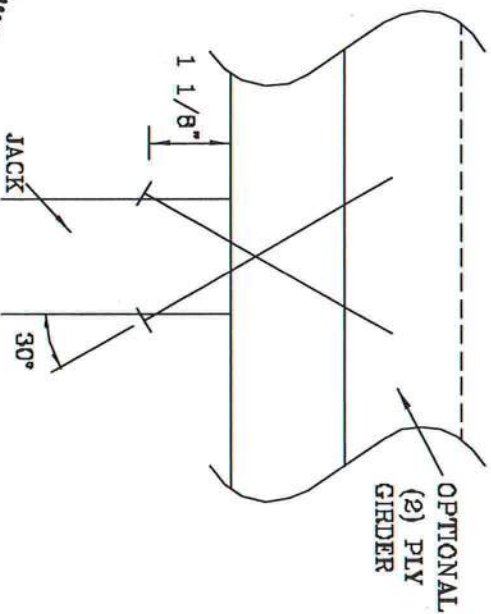
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

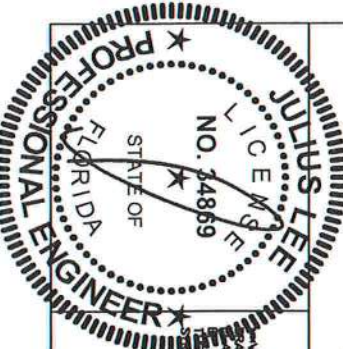
NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES
2	187#	256#	181#	234#	156#	203#	154#	189#
3	286#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

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



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 764040



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1405 ST 4TH AVENUE
DELRAY BEACH, FL 33444-2101

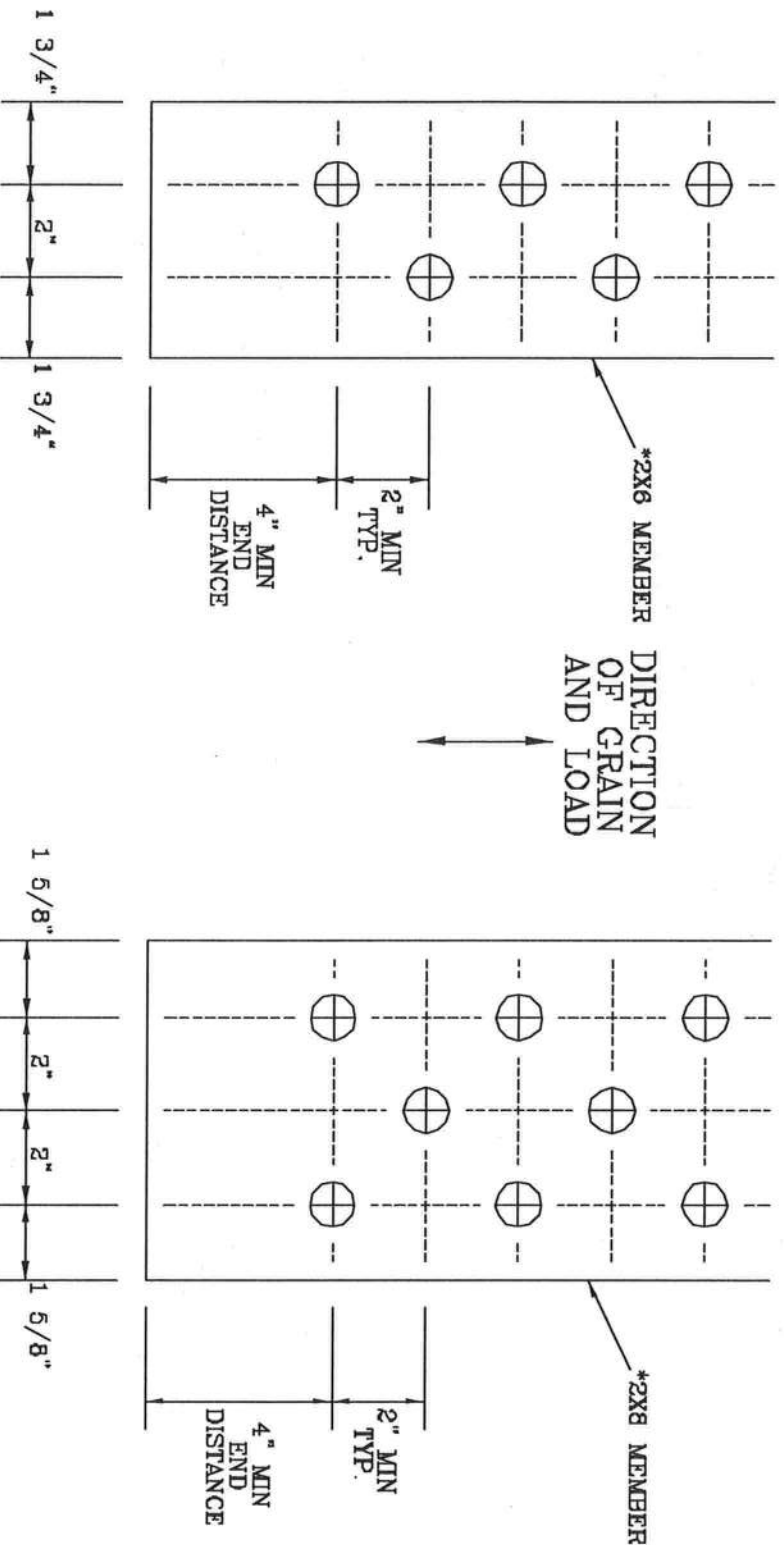
Not 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL103
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.

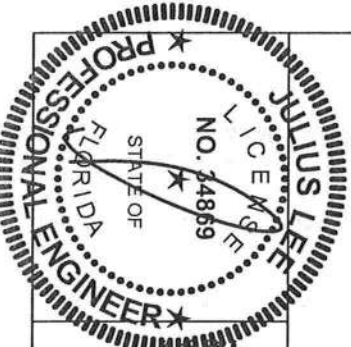
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A888.016



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACES 1-80 BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS LATE INSTITUTE, 5801 OAKWOOD DR., SUITE 200, WATSON, VA, 22179 AND A/CRA C/OD TRUSS COUNCIL, 1000 ST. 4TH AVENUE, SUITE 200, WATSON, VA, 22179 FOR TRUSS FABRICATING PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSSES OF ALL TYPES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL PANELS AND SECTION CHORD SHALL HAVE A PROPERLY ATTACHED RING DETAILING.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2006

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 ST 4TH AVENUE
DELMAR BEACH, FL 33444-2481

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSF1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

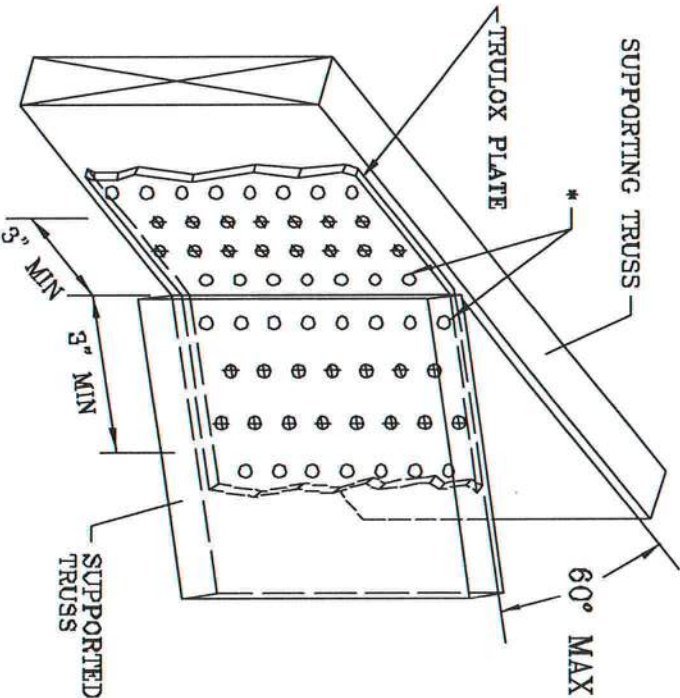
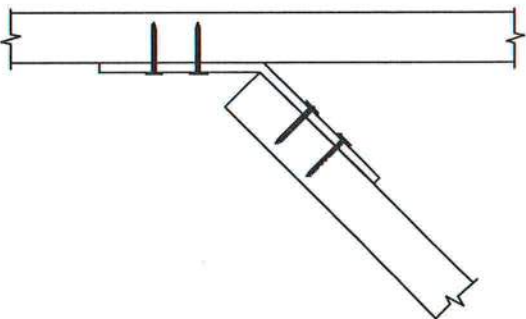
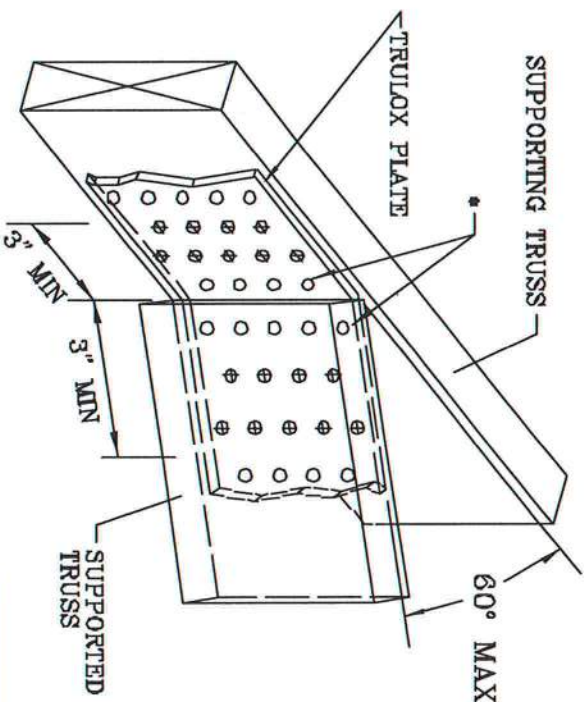
11 GAUGE (0.120" X 1.376") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* 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

REVIEWED

By Julius Lee at 11:58 am, Jun 11, 2008

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
1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DECATUR, GA, 30044-2201

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
PACKAGING. REFER TO AISC 1-60 (LOADING DEPENDENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS
INSTITUTE, 384 TOWNSEND DR., SUITE 200, WATSON, VT 05775 AND AISC TRUSS COUNCIL
OF AMERICA, 6500 ENTERPRISE LN, WATSON, VT 05775 FOR SAFETY PRACTICES PRIOR TO PERFORMING
TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

STATE OF

NO. 34869

JULIUS LEE

FLORIDA

PROFESSIONAL ENGINEER

Net: 34869
STATE OF FLORIDA

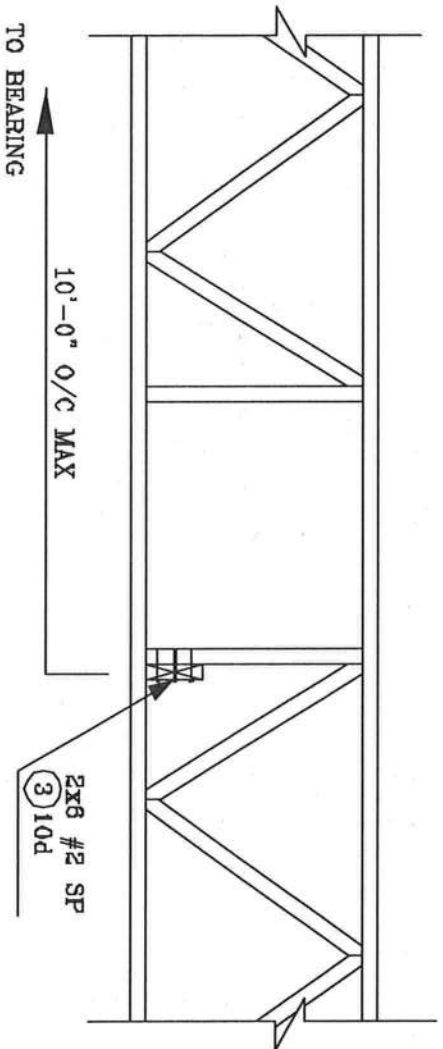
REF TRULOX

DATE 11/26/03

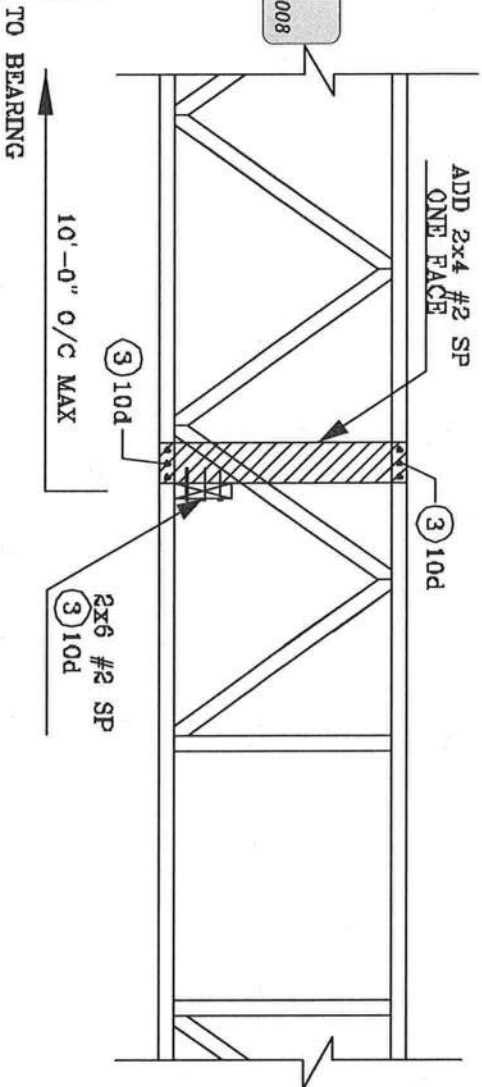
DRWG CNTRULOX1103

-ENG JL

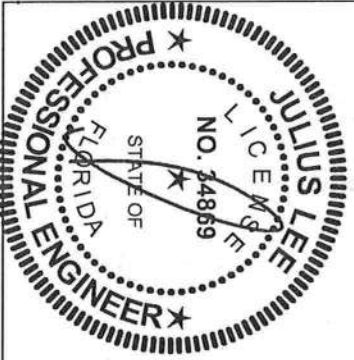
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008



JULIUS LEE'S
CONS. ENGINEERS P.A.
1425 SW 4th AVENUE
DEERBAY BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
			3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail ⁽¹⁾	2	12"	370	280	280	245		
	3	12"	555	415	415	370		
1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
SDS 1/4" x 3 1/2" ⁽⁴⁾	2	24"	680	510	510	455		
		19.2"	850	640	640	565		
		16"	1,020	765	765	680		
SDS 1/4" x 6" ⁽³⁾⁽⁴⁾	2	24"				455	465	455
		19.2"				565	580	565
		16"				680	695	680
USP WS35 ⁽⁴⁾	2	24"	480	360	360	320		
		19.2"	600	450	450	400		
		16"	715	540	540	480		
USP WS6 ⁽³⁾⁽⁴⁾	2	24"				350	525	350
		19.2"				440	660	440
		16"				525	790	525
3 3/8" TrussLok ⁽⁴⁾	2	24"	635	475	475	425		
		19.2"	795	595	595	530		
		16"	955	715	715	635		
5" TrussLok ⁽⁴⁾	2	24"		500	500	445	480	445
		19.2"		625	625	555	600	555
		16"		750	750	665	725	665
6 3/4" TrussLok ⁽⁴⁾	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

(2) Washers required. Bolt holes to be 1/16" maximum.

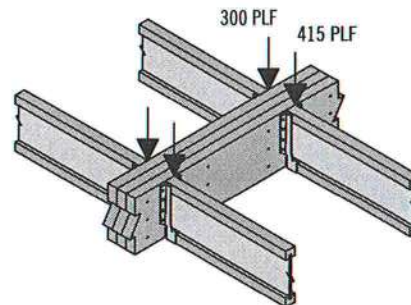
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example



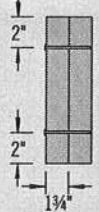
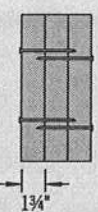
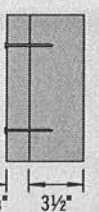
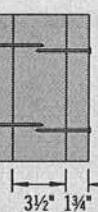

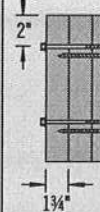
First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:

Two rows of 1/2" bolts or SDS 1/4" x 3 1/2" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws 1/4" x 3 1/2" or WS35 1/4" x 6" or WS6(1)	4	1,915	1,435(4)	1,435	1,275	1,860(2)	1,405(2)
	6	2,870	2,150 (4)	2,150	1,915	2,785(2)	2,110(2)
	8	3,825	2,870 (4)	2,870	2,550	3,715(2)	2,810(2)
3 3/8" or 5" TrussLok™	4	2,545	1,910 (4)	1,910	1,695	1,925(2)	1,775(2)
	6	3,815	2,860 (4)	2,860	2,545	2,890(2)	2,665(2)
	8	5,090	3,815 (4)	3,815	3,390	3,855(2)	3,550(2)

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(2) 6" long screws required.

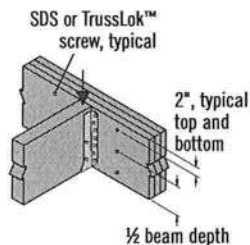
(3) 5" long screws required.

(4) 3 1/2" and 3 3/8" long screws must be installed on both sides.

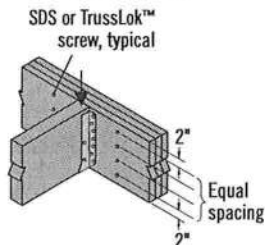
See General Notes on page 38

Connections

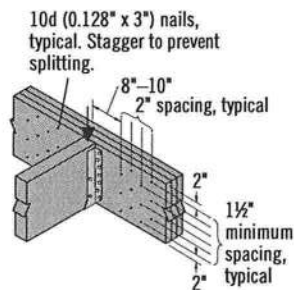
4 or 6 or Screw Connection



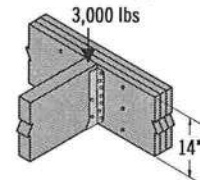
8 Screw Connection



Nail Connection



Point Load Design Example



First, verify that a 3-ply 1 3/4" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1 3/4" assembly, eight 3 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1 3/4" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d-16d (0.148"-0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3 3/8" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed

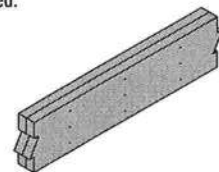
on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3 1/2" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of 1/2" bolts at 24" on-center staggered.



Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

