

Project Information:

Builder: Cash Account Model: CUSTOM

Builders FirstSource Job #: 293423

Street: 21285 US HWY 441 City: High Springs

County: COLUMBIA Building Code: FBC2004/TPI2002

Computer Program Used: MiTek 6.3

Gravity Loads

Roof: 32 psf Total

Wind Standard: ASCE 7-02 Floor: 55 psf Total Wind Speed: 110 mph

Mean Roof Ht: 20 ft

Builders FirstSource 2525 E. Duval St. Lake City, FL 32055

JULIUS LEE'S CONSULTING ENGR INC

1455 SW 4TH AVE, DELRAY BEACH

FLORIDA ,33444

Exposure: B

Truss Design Information:

Note: Refer to individual truss design drawings for special loading conditions,

design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

Design Professional Of Record: MICHEAL J JOHNSON

Delegated Truss Engineer: Julius Lee

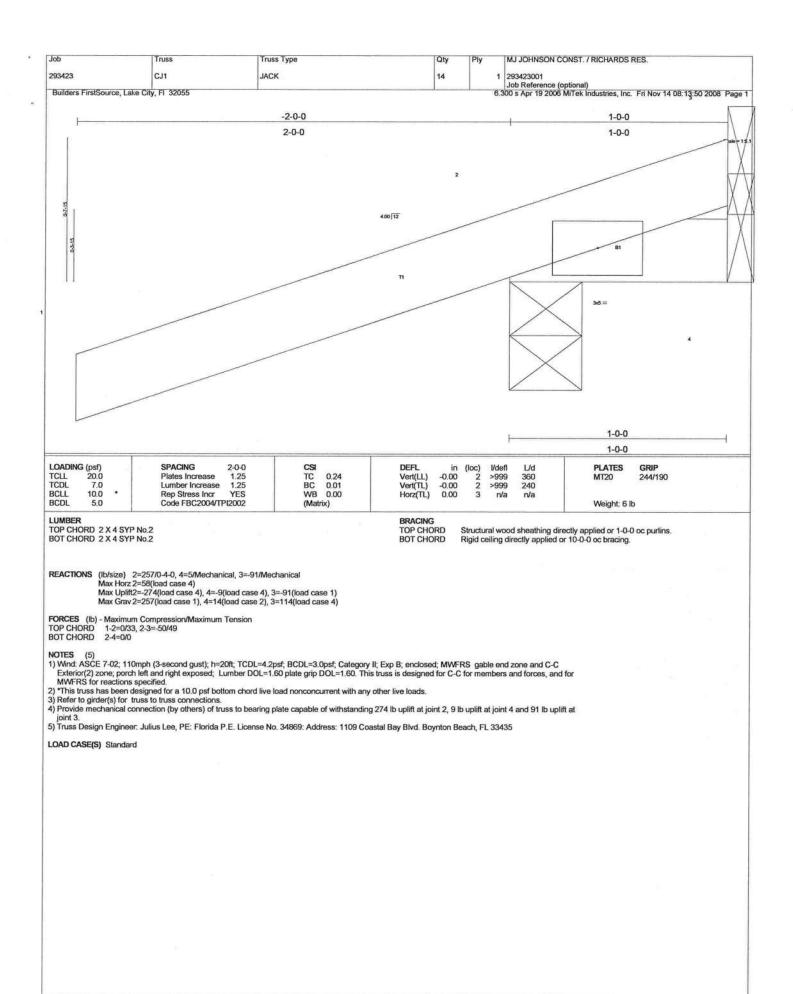
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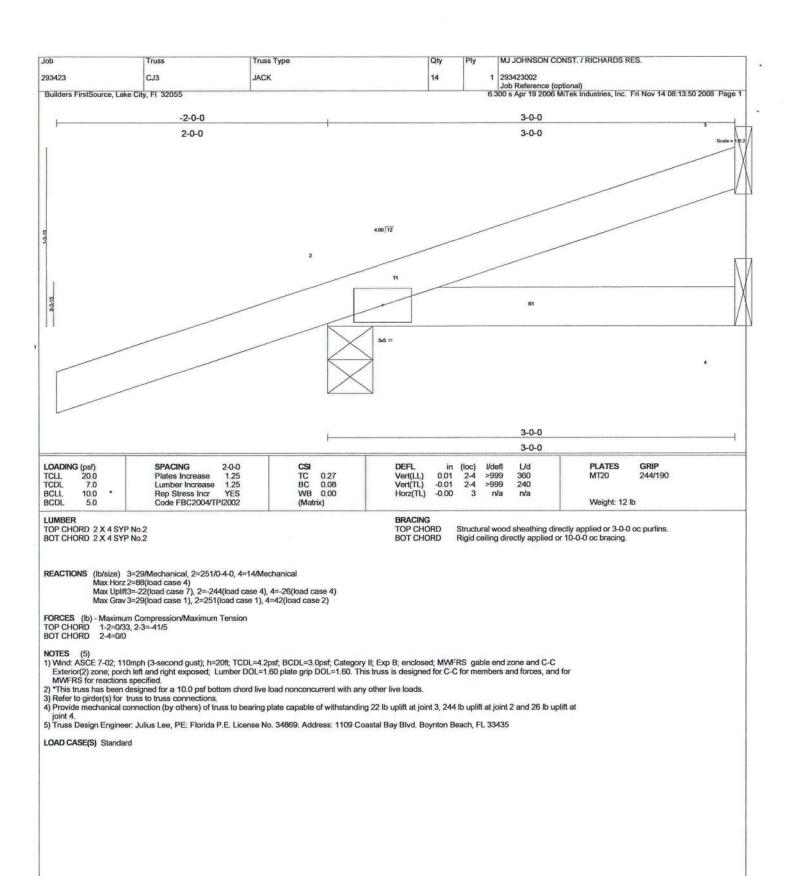
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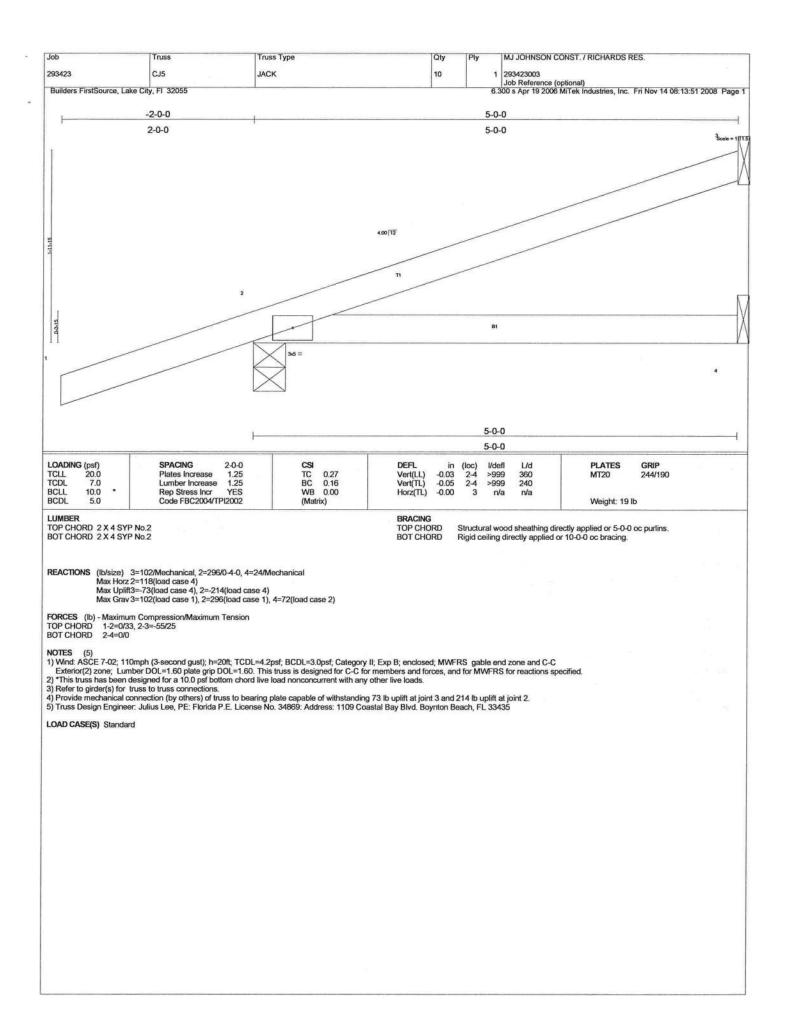
This truss specification package consists of this index sheet and 24 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

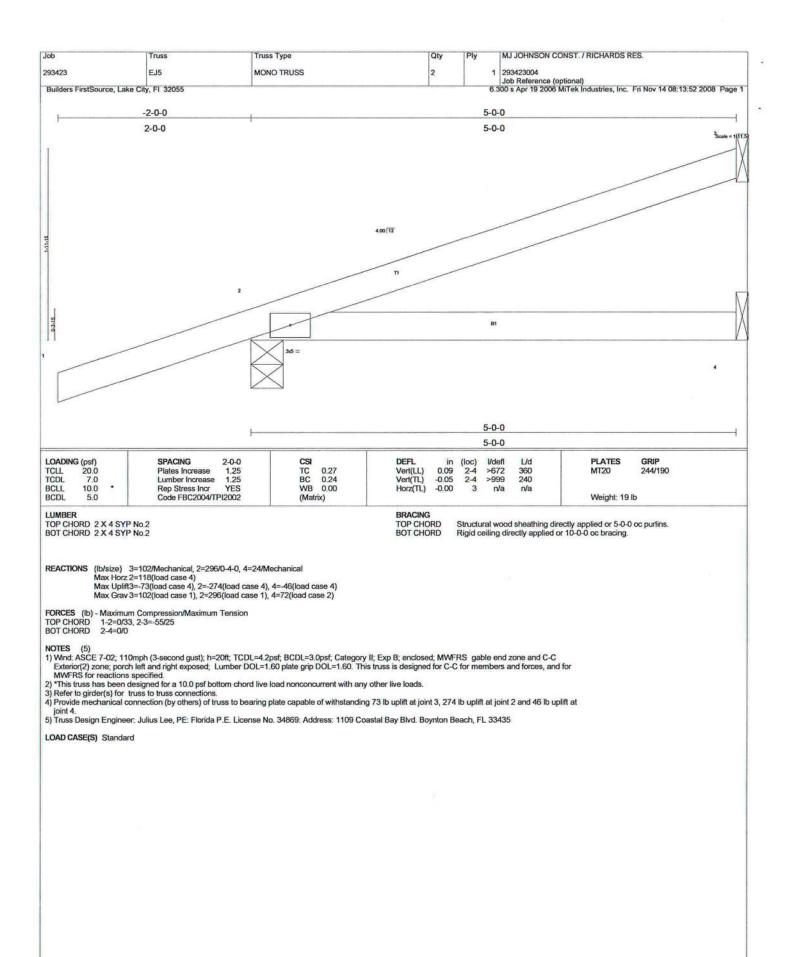
Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date	Truss	Truss Label	Drawing #	Seal Date
1	CJ1	293423001	11/14/2008					11	200000		
2	CJ3	293423002	11/14/2008								
3	CJ5	293423003	11/14/2008								
4	EJ5	293423004	11/14/2008								
5	EJ7	293423005	11/14/2008								
6	HJ7	293423006	11/14/2008								
7	HJ9	293423007	11/14/2008								
8	T01	293423008	11/14/2008								
9	T02	293423009	11/14/2008								
10	T03	293423010	11/14/2008								
11	T04	293423011	11/14/2008								
12	T05	293423012	11/14/2008								
13	T06	293423013	11/14/2008								
14	T07	293423014	11/14/2008						-		
15	T08	293423015	11/14/2008					1			
16	T09	293423016	11/14/2008								
17	T10	293423017	11/14/2008								
18	T11	293423018	11/14/2008								
19	T12	293423019	11/14/2008								
20	T13	293423020	11/14/2008								
21	T14	293423021	11/14/2008						- 7		
22	T15	293423022	11/14/2008								
23	T16	293423023	11/14/2008								
24	T17	293423024	11/14/2008								
						7					
_								1	-	-	

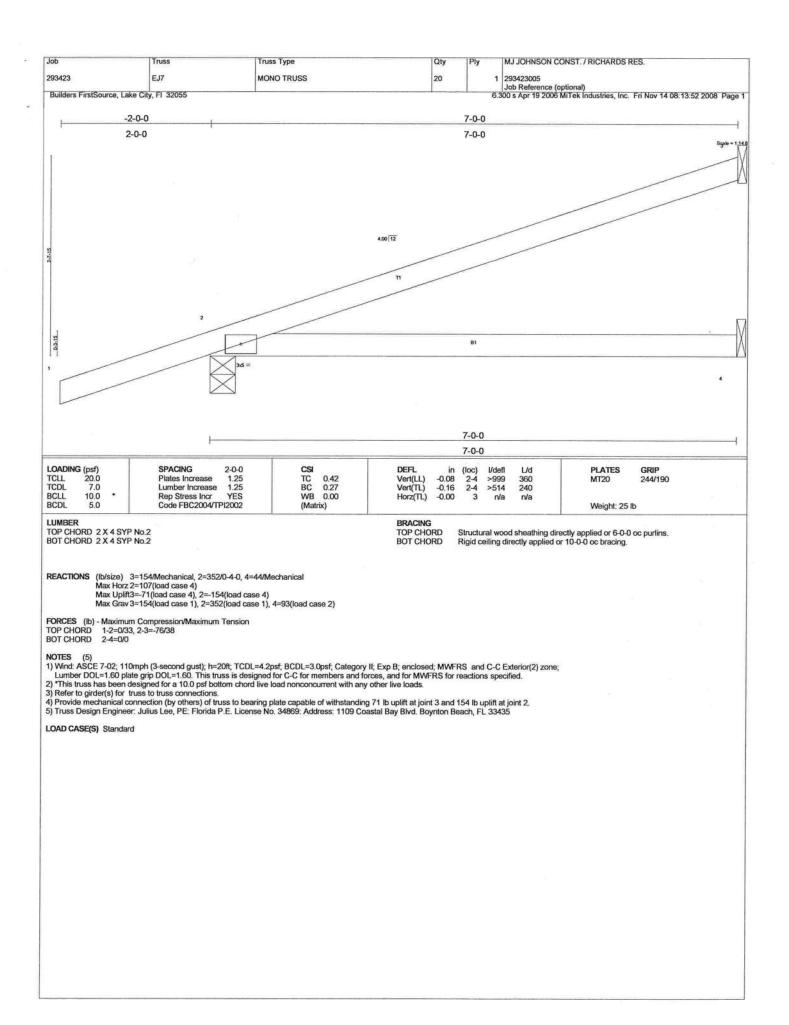
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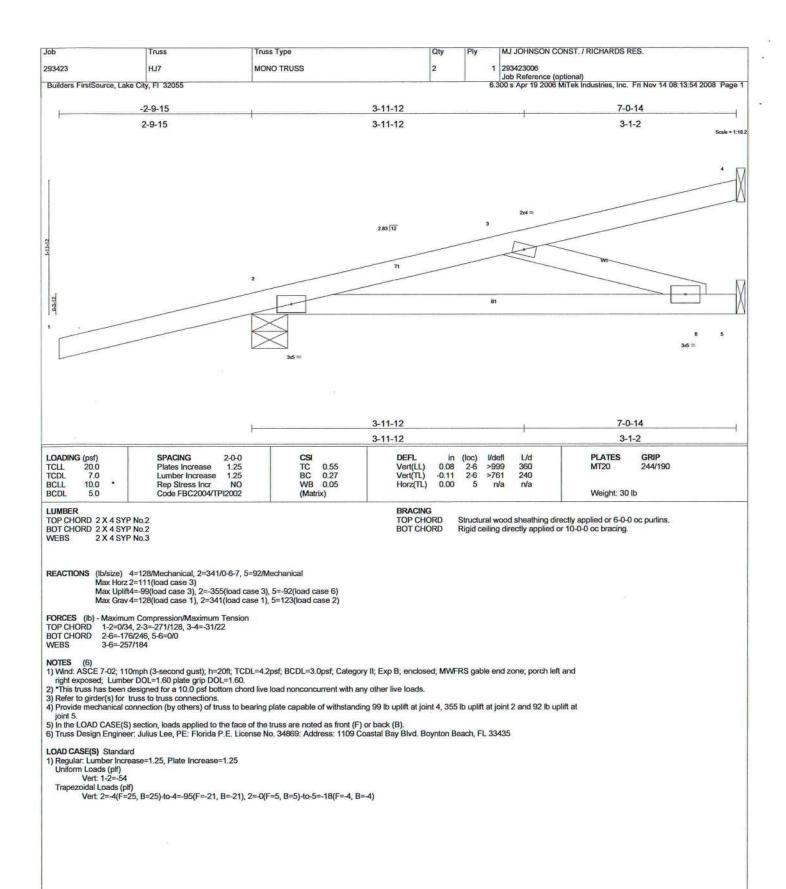


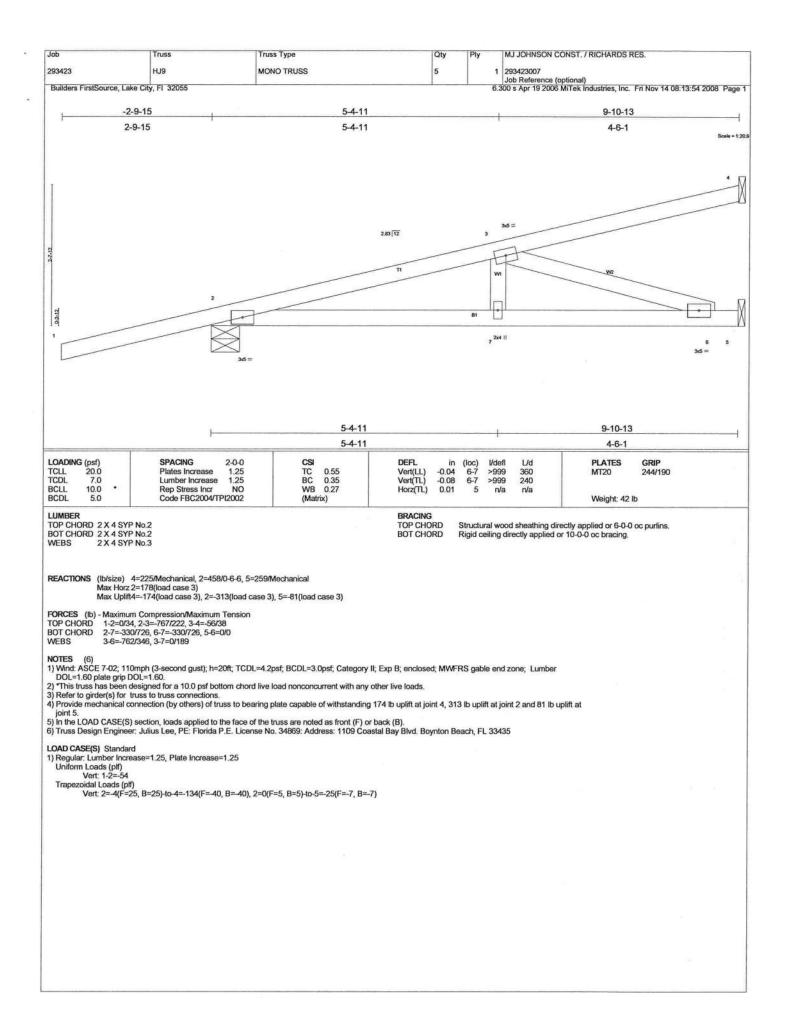


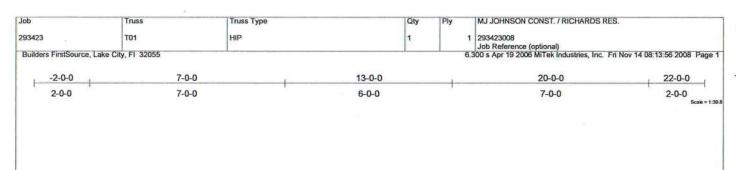


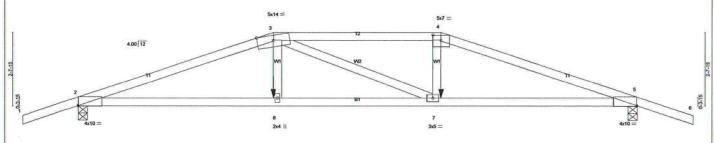












			7-0-0	0			6-0-0					7-0-0	
Plate Offsets	(X,Y): [2	2:0-0-3,Edg	e], [4:0-3-8,0-2-5]	, [5:0-0-3,Edge]									
TCDL 7	sf) 0.0 7.0 0.0	F	SPACING Plates Increase Lumber Increase Rep Stress Incr	2-0-0 1.25 1.25 NO	TC BC WB	0.65 0.70 0.18	DEFL Vert(LL) Vert(TL) Horz(TL)	in -0.18 -0.38 0.10	(loc) 7-8 7-8 5	Vdefl >999 >628 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
	5.0		Code FBC2004/TI		(Mat		1.5.2(1.2)	0.10				Weight: 82	lb

13-0-0

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 BOT CHORD

Structural wood sheathing directly applied or 2-11-4 oc purlins. Rigid ceiling directly applied or 6-8-6 oc bracing.

20-0-0

REACTIONS (lb/size) 2=1379/0-4-0, 5=1379/0-4-0

Max Horz 2=51(load case 5)

Max Uplift2=-471(load case 3), 5=-471(load case 4)

7-0-0

FORCES (ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3316/973, 3-4=-3115/954, 4-5=-3316/973, 5-6=0/33
BOT CHORD 2-8=-882/3083, 7-8=-887/3114, 5-7=-863/3083
WEBS 3-8=-77/513, 3-7=-167/169, 4-7=-91/564

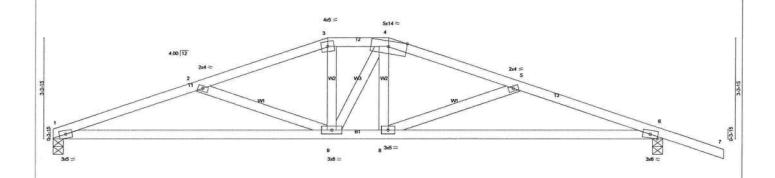
- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
 4) "This truss has been designed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

- Trovide adequate dramage to prevent water portains.
 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 471 lb uplift at joint 2 and 471 lb uplift at joint 5.
 Girder carries hip end with 7-0-0 end setback.
 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 411 lb down and 136 lb up at 13-0-0, and 411 lb down and 136 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 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: 1-3=-54, 3-4=-117(F=-63), 4-6=-54, 2-8=-10, 7-8=-22(F=-12), 5-7=-10 Concentrated Loads (lb) Vert: 8=-411(F) 7=-411(F)

Job	Truss	Truss Type		Qty	Ply	MJ JOHNSON CONST. / RICHARDS RES.	
293423	T02	HIP		1	8	1 293423009 Job Reference (optional)	
Builders FirstSource, I	Lake City, FI 32055				(3.300 s Apr 19 2006 MiTek Industries, Inc. Fri N	ov 14 08:13:57 2008 Page 1
	4-10-14	9-0-0	11-0-0	15-	1-2	20-0-0	22-0-0
	4-10-14	4-1-2	2-0-0	4-	1-2	4-10-14	2-0-0 Scale = 1:36.5



1			9-0-0			11-	0-0				20-0-0		
. He			9-0-0			2-0	-0 '				9-0-0		1
OADIN			SPACING 2 Plates Increase	2-0-0	CSI	0.28	DEFL Vert(LL)	in -0.14	(loc) 6-8	Vdefl >999	L/d 360	PLATES MT20	GRIP 244/190
CDL	7.0		Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.28	1-9	>831	240	M120	244/190
CLL	10.0 5.0	-	Rep Stress Incr Code FBC2004/TPI	YES 2002	WB (Mat		Horz(TL)	0.04	6	n/a	n/a	Weight: 91	ь

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 2 X 4 SYP No.3 BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-11-1 oc purlins. Rigid ceiling directly applied or 7-5-0 oc bracing.

REACTIONS (lb/size) 1=623/0-4-0, 6=753/0-4-0 Max Horz 1=-68(load case 7) Max Uplif1=-155(load case 4), 6=-253(load case 5)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1481/856, 2-3=-1116/620, 3-4=-1030/621, 4-5=-1105/605, 5-6=-1446/792, 6-7=0/33
BOT CHORD 1-9=-710/1373, 8-9=-402/1020, 6-8=-639/1325
WEBS 2-9=-380/317, 3-9=-75/213, 4-9=-107/132, 4-8=-27/205, 5-8=-338/253

NOTES (6)

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

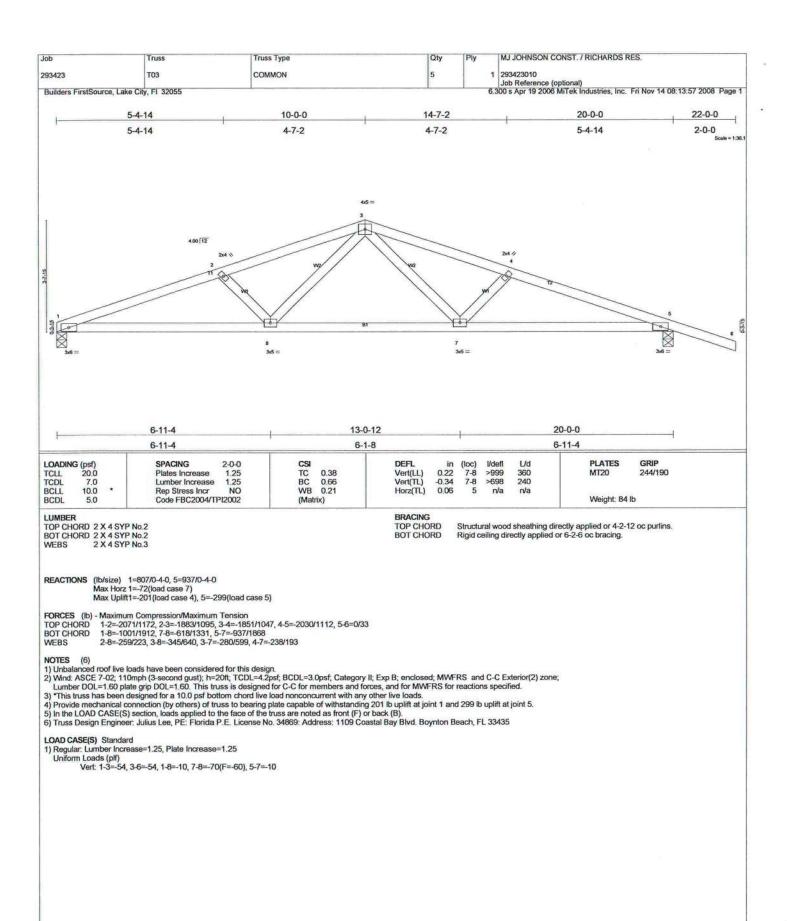
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate frainage to prevent water ponding.

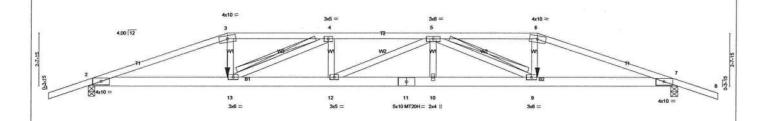
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 1 and 253 lb uplift at joint 6.

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



Job	Truss	Truss Type		Qty	Ply	MJ JOHNSON C	ONST. / RICHARDS RES.	
293423	T04	HIP		1	1	293423011 Job Reference (c	ptional)	
Builders FirstSource,	Lake City, FI 32055				6.3	300 s Apr 19 2006	MiTek Industries, Inc. Fri Nov 14	4 08:13:59 2008 Page 1
-2-0-0	7-0-0	12-2-15	17-4-1		22-	7-0	29-7-0	31-7-0
2-0-0	7-0-0	5-2-15	5-1-3		5-2-	-15	7-0-0	2-0-0 Scale = 1:55



-	7-0-0	12-2-15	17-4-1	22-7-0	29-7-0
	7-0-0	5-2-15	5-1-3	5-2-15	7-0-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 * BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.85 BC 0.84 WB 0.43 (Matrix)	Vert(TL) -	in (loc) Vdefl L/d -0.50 10-12 >706 360 -0.95 10-12 >370 240 0.17 7 n/a n/a	PLATES GRIP MT20 244/190 MT20H 187/143 Weight: 155 lb

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

BRACING

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 1-10-2 oc purlins.
Rigid ceiling directly applied or 5-11-0 oc bracing.
T-Brace:

2 X 4 SYP No.3 - 4-13, 5-9
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.

with 4in minimum end distance. Brace must cover 90% of web length.

REACTIONS (lb/size) 2=2044/0-4-0, 7=2044/0-4-0

Max Horz 2=-54(load case 6) Max Uplift2=-677(load case 3), 7=-677(load case 4)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD

TOP

NOTES (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip

DOL=1.60.

3) Provide adequate drainage to prevent water ponding.

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) All plates are MT20 plates unless otherwise indicated.

5) All plates are M120 plates unless otherwise indicated.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 2 and 677 lb uplift at joint 7.
7) Girder carries hip end with 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 411 lb down and 136 lb up at 22-7-0, and 411 lb down and 136 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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

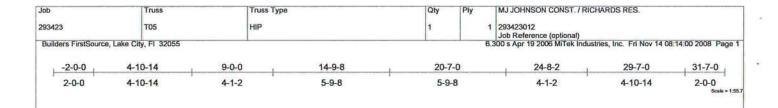
LOAD CASE(S) Standard

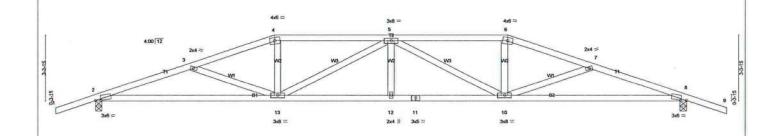
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (pff)
Vert 1-3=-54, 3-6=-117(F=-63), 6-8=-54, 2-13=-10, 9-13=-22(F=-12), 7-9=-10

Concentrated Loads (lb)

Vert 13=411(F) 9=411(F)





	-		000		-	1400		20 /	0			2010	
		9-0-0		\P	5-9-8 5-9-8			8	9-0-0			. 7	
Plate Offse	ets (X,Y	'): [2:0-3	3-9,0-0-7], [8:0-3-9,0-0-7]										
LOADING TCLL TCDL	(psf) 20.0 7.0		SPACING Plates Increase Lumber Increase	2-0-0 1.25 1.25	TC BC	0.35 0.58	DEFL Vert(LL) Vert(TL)	in 0.23 -0.37	(loc) 12 12	l/defl >999 >952	L/d 360 240	PLATES MT20	GRIP 244/190
	10.0	•	Rep Stress Incr Code FBC2004/TI	YES	WB (Matr	0.35	Horz(TL)	0.11	8	n/a	n/a	Weight: 140	lb
		-					pp. 4 cm/c			-			

14-9-8

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

TOP CHORD BOT CHORD

20-7-0

Structural wood sheathing directly applied or 4-0-6 oc purlins. Rigid ceiling directly applied or 6-1-10 oc bracing.

29-7-0

REACTIONS (lb/size) 2=1053/0-4-0, 8=1053/0-4-0 Max Horz 2=-59(load case 7) Max Uplift2=-341(load case 4), 8=-341(load case 5)

9-0-0

FORCES (b) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/33, 2-3=-2326/1224, 3-4=-2045/1071, 4-5=-1927/1058, 5-6=-1927/1058, 6-7=-2045/1071, 7-8=-2326/1224, 8-9=0/33

BOT CHORD

WEBS

1-2=0/33, 2-3=-2326/1224, 3-4=-2045/1071, 4-5=-1927/1058, 5-6=-1927/1058, 6-7=-2045/1071, 7-8=-2326/1224, 8-9=0/33

1-3=1045/2152, 12-13=-1044/2259, 11-12=-1044/2259, 10-11=-1044/2259, 8-10=-1045/2152

3-13=-264/210, 4-13=-115/381, 5-13=-495/218, 5-12=0/116, 5-10=-495/218, 6-10=-115/381, 7-10=-264/210

NOTES (6)

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

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

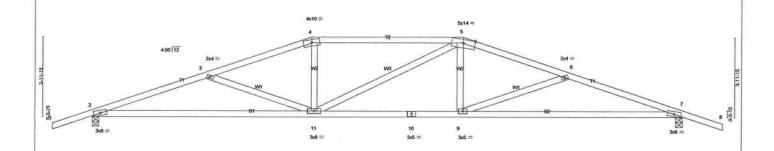
3) Provide adequate drainage to prevent water ponding.

4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 2 and 341 lb uplift at joint 8.

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

Job	Truss	Truss Type	QI	Oty	Ply	MJ JOHNSON CONST. / RICHARDS RES.				
293423	T06	HIP	1		1	293423013 Job Reference (option	nal)			
Builders FirstSource	, Lake City, FI 32055				6.3	00 s Apr 19 2006 MiTe	ek Índustries, Inc. Fri Nov 14 (08:14:01 2008 Page 1		
-2-0-0	5-10-14	11-0-0	18-7-0		-	23-8-2	29-7-0	31-7-0		
2-0-0	5-10-14	5-1-2	7-7-0		,	5-1-2	5-10-14	2-0-0 Scale = 1:55.7		



ļ	11-0-0	18-7-0	18-7-0 29-7-0			
	11-0-0	7-7-0		11-0-0		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0- Plates Increase 1.2 Rep Stress Incr Code FBC2004/TPI200	25 TC (25 BC (ES WB (DEFL 0.43 Vert(LL) 0.49 Vert(TL) 0.22 Horz(TL)	in (loc) -0.32 7-9 -0.61 7-9 0.09 7	Vdefl L/d >999 360 >575 240 n/a n/a	PLATES GRIP MT20 244/190 Weight: 135 lb

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

BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-11-10 oc purlins. Rigid ceiling directly applied or 6-5-15 oc bracing.

REACTIONS (lb/size) 2=1053/0-4-0, 7=1053/0-4-0 Max Horz 2=-67(load case 7) Max Uplift2=-335(load case 4), 7=-335(load case 5)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CHORD
1.2=0/33, 2-3=-2285/1246, 3-4=-1895/1022, 4-5=-1770/1015, 5-6=-1895/1022, 6-7=-2285/1246, 7-8=0/33
BOT CHORD
VEBS
3-11=-374/304, 4-11=-44/328, 5-11=-188/187, 5-9=-374/303

NOTES (6)

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

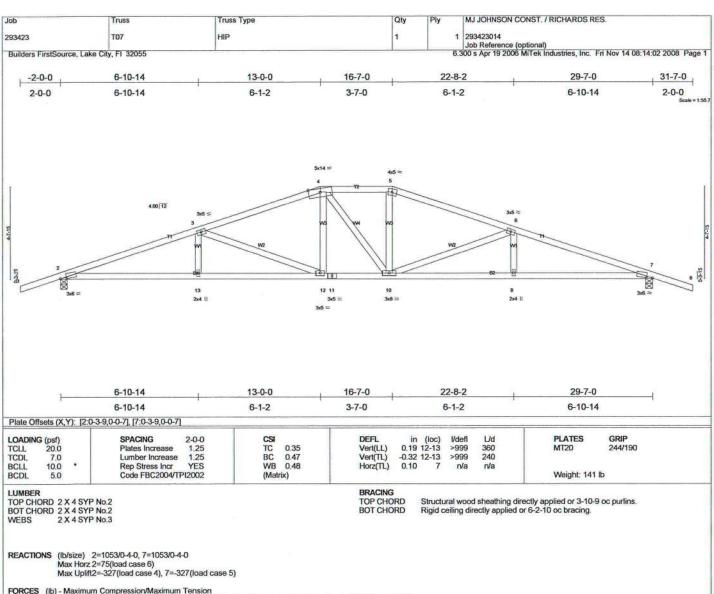
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2 and 335 lb uplift at joint 7.

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



FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/33, 2-3=-2295/1215, 3-4=-1676/954, 4-5=-1546/949, 5-6=-1677/954, 6-7=-2295/1215, 7-8=0/33 2-13=-1027/2115, 12-13=-1027/2115, 11-12=-675/1545, 10-11=-675/1545, 9-10=-1027/2114, 7-9=-1027/2114

BOT CHORD

3-13=0/212, 3-12=623/380, 4-12=-110/291, 4-10=-169/171, 5-10=-110/291, 6-10=-622/379, 6-9=0/211

NOTES (6)

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

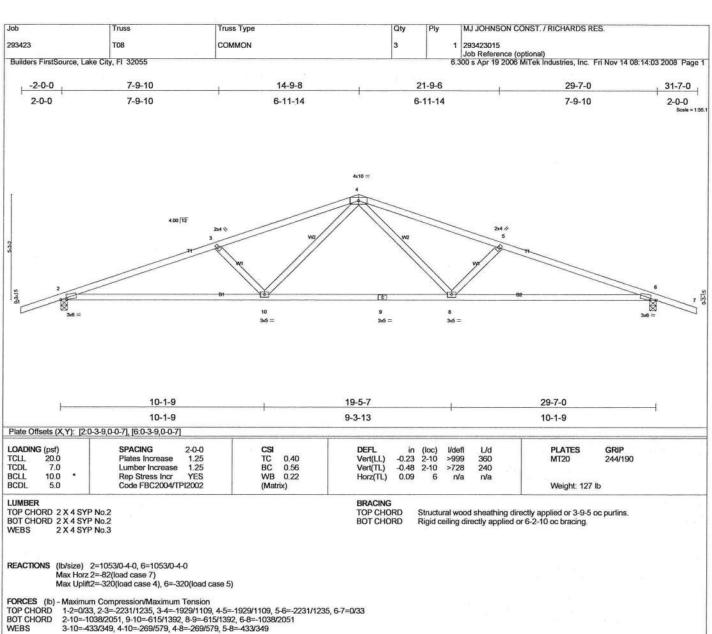
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) *This truss has been designed for a 1.0.p psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 2 and 327 lb uplift at joint 7.

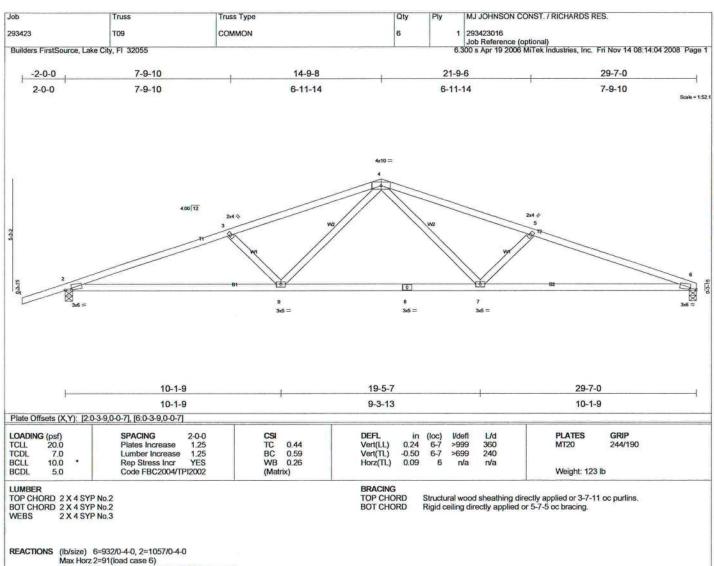
6) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



NOTES (5)

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

1) Undatanced froot live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of fruss to bearing plate capable of withstanding 320 lb uplift at joint 2 and 320 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



Max Uplift6=-225(load case 5), 2=-321(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1.2=0/33, 2.3=-2244/1254, 3.4=-1941/1126, 4.5=-1964/1160, 5.6=-2273/1296
BOT CHORD 2.9=-1108/2063, 8.9=-688/1405, 7.8=-688/1405, 6.7=-1153/2094
WEBS 3.9=-434/351, 4.9=-265/578, 4.7=-310/607, 5.7=-449/372

NOTES (5)

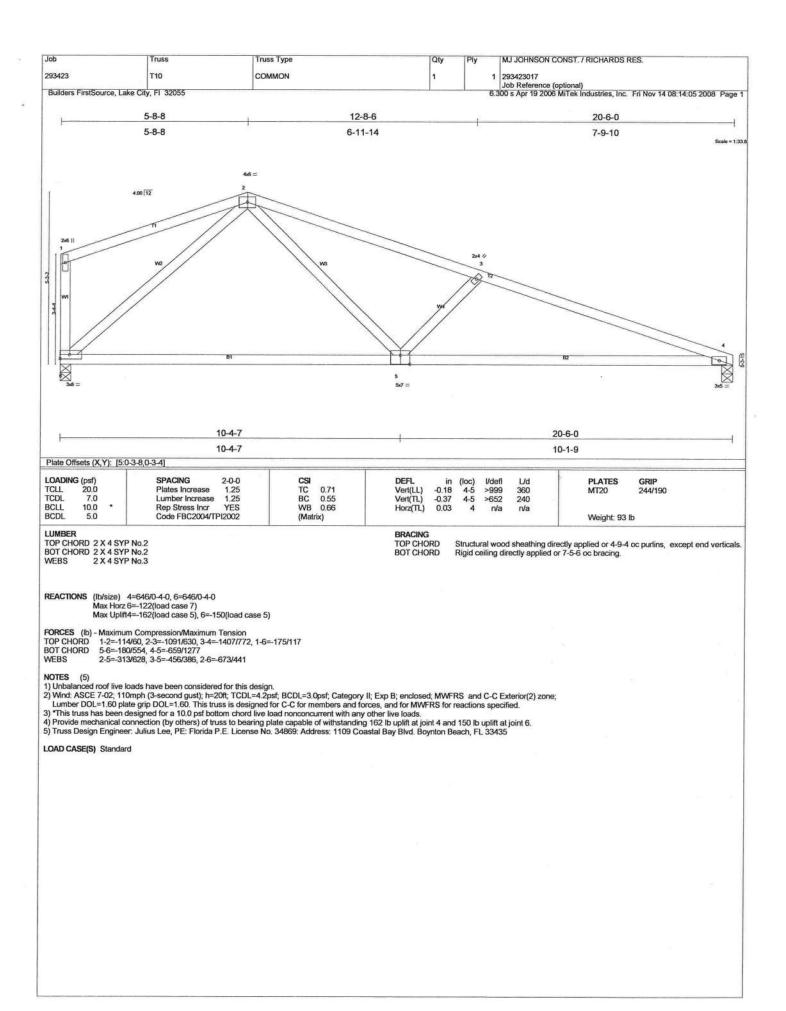
1) Unbalanced roof live loads have been considered for this design.

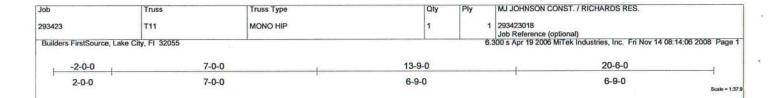
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

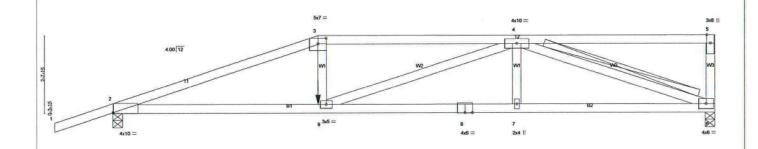
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 6 and 321 lb uplift at joint 2.

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







I and a second	7-0-0		6-9-0		6-9-0
Plate Offsets (X,Y): [2:04	0-3,Edge], [3:0-3-8,0-2-5]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0	SPACING 2-0-0 Plates Increase 1.25 Rep Stress Incr	CSI TC 0.75 BC 0.85 WB 0.90	· million /	oc) Vdefl L/d '-9 >999 360 '-9 >589 240 6 n/a n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			Weight: 94 lb

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

W3 2 X 4 SYP No.2

BRACING TOP CHORD **BOT CHORD** WEBS

13-9-0

Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-5-7 oc bracing. T-Brace: 2 X 4 SYP No.3 - 4-6

20-6-0

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) 6=1448/0-4-0, 2=1367/0-4-0 Max Horz 2=108(load case 3)

Max Uplift6=-447(load case 3), 2=-470(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/33, 2-3=-3295/975, 3-4=-3095/956, 4-5=-208/63, 5-6=-371/172

BOT CHORD

2-9-953/3065, 8-9-919/2962, 7-8-919/2962, 6-7-919/2962 3-9-67/476, 4-9-88/141, 4-7-0/274, 4-6-2926/909 WEBS

NOTES

NOTES (8)

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOI =1 60

7-0-0

DOL=1.50.
2) Provide adequate drainage to prevent water ponding.
3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 6 and 470 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 411 lb down and 136 lb up at 7-0-0 on bottom chord.

The design/selection of such connection device(s) is the responsibility of others.

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

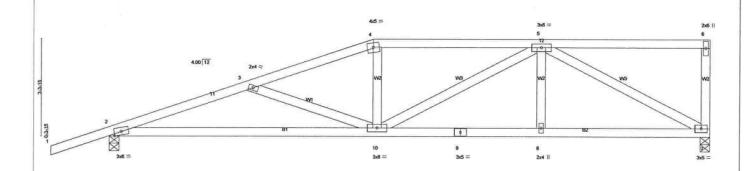
LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pff) Vert: 1-3=-54, 3-5=-117(F=-63), 2-9=-10, 6-9=-22(F=-12)

Concentrated Loads (lb)

Vert: 9=-411(F)

Job	Truss	Truss Type	Qty	Ply	MJ JOHNSON CONST. / RICHARDS RES.
293423	T12	MONO HIP	1	1	293423019 Job Reference (optional)
Builders FirstSource, L	ake City, FI 32055			6.3	300 s Apr 19 2006 MiTek Industries, Inc. Fri Nov 14 08:14:06 2008 Page
-2-0-0	4-10-14	9-0-0	14-9	9-0	20-6-0
2-0-0	4-10-14	4-1-2	5-9	-0	5-9-0



	1		9-0-0			-1	1	4-9-0			20-	6-0
			9-0-0					5-9-0			5-9	9-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0		Plates Increase Lumber Increase	2-0-0 1.25 1.25 YES	BC	0.37 0.42 0.68	DEFL Vert(LL) Vert(TL) Horz(TL)	in -0.14 -0.27 0.04	2-10	l/defl >999 >884 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0		Code FBC2004/TPI	2002	(Matrix	k)	3 5					Weight: 102	lb

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 5-0-15 oc purlins, except end

verticals.

BOT CHORD

Rigid ceiling directly applied or 7-0-2 oc bracing.

REACTIONS (lb/size) 7=640/0-4-0, 2=769/0-4-0 Max Horz 2=130(load case 4) Max Uplift7=-181(load case 4), 2=-268(load case 4)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-1486/754, 3-4=-1173/596, 4-5=-1086/590, 5-6=-48/23, 6-7=-142/101
BOT CHORD 2-10=809/1362, 9-10=-490/902, 8-9=-490/902, 7-8=-490/902
WEBS 3-10=-296/230, 4-10=0/193, 5-10=-115/210, 5-8=0/144, 5-7=-971/530

NOTES (5)

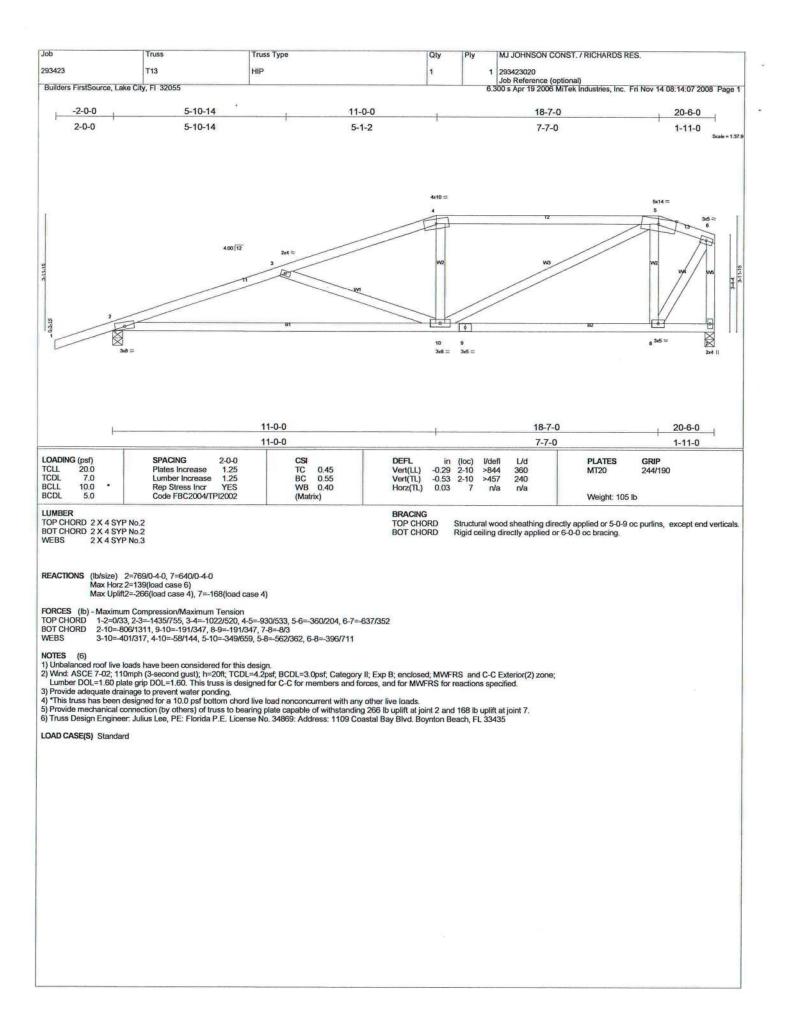
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

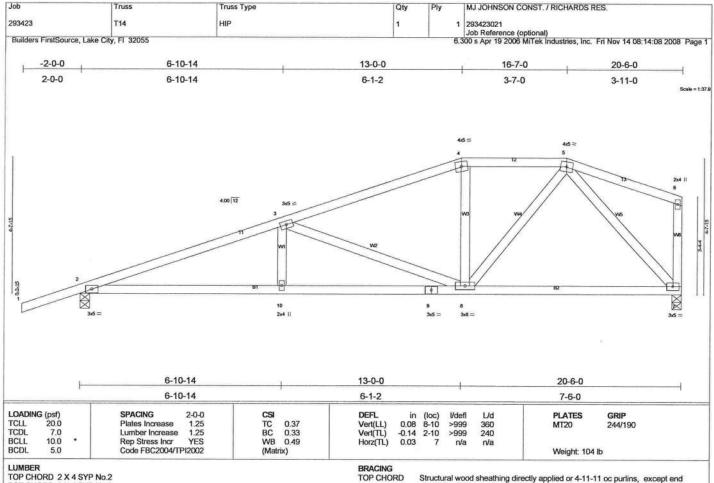
2) Provide adequate drainage to prevent water ponding.

3) *This truss has been designed for a 10.0 ps bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 7 and 268 lb uplift at joint 2.

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





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

Structural wood sheathing directly applied or 4-11-11 oc purlins, except end

verticals.

BOT CHORD

Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS (lb/size) 2=769/0-4-0, 7=640/0-4-0 Max Horz 2=147(load case 6)

Max Uplift2=-263(load case 4), 7=-155(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-1435/714, 3-4=-803/439, 4-5=-707/456, 5-6=-66/47, 6-7=-115/93
BOT CHORD 2-10=-764/1302, 9-10=-764/1302, 8-9=-764/1302, 7-8=-257/453
WEBS 3-10=0/199, 3-8=-633/395, 4-8=-58/96, 5-8=-217/443, 5-7=-645/381

NOTES (6)

Unbalanced roof live loads have been considered for this design.

1) United a Not live leads in law bear in a law bear in

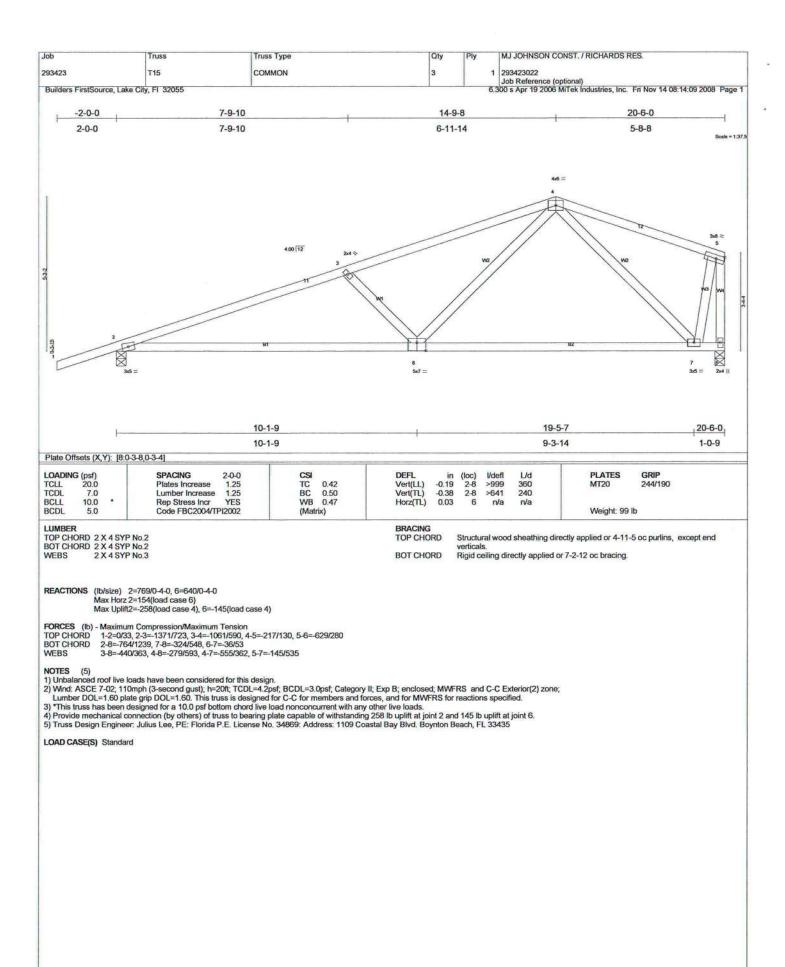
Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C-tor members and forces, and for invertice for reactions specified.

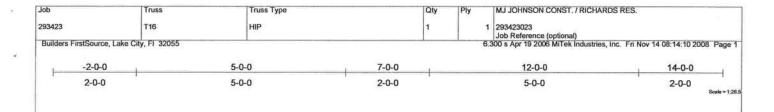
3) Provide adequate drainage to prevent water ponding.

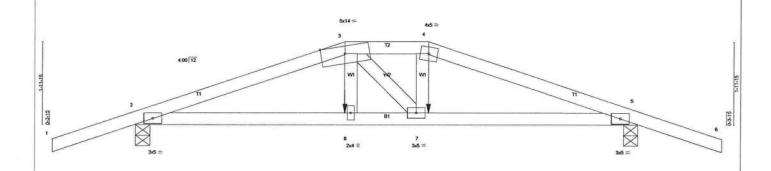
4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 155 lb uplift at joint 7.

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







1	5-0-0		7-0-0		12-0-0	1
	5-0-0		2-0-0		5-0-0	
TCLL 20.0 TCDL 7.0 BCLL 10.0 *	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.27 BC 0.29 WB 0.09 (Matrix)	DEFL Vert(LL) Vert(TL) Horz(TL)	in (loc) Vdefl 0.05 5-7 >999 -0.08 8 >999 0.02 5 n/a	L/d 360 240 n/a	GRIP 244/190

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 2 X 4 SYP No.3 BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-3-15 oc purlins. Rigid ceiling directly applied or 8-4-8 oc bracing.

REACTIONS (lb/size) 2=719/0-4-0, 5=719/0-4-0

Max Horz 2=44(load case 5) Max Uplift2=416(load case 3), 5=416(load case 4)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-1341/636, 3-4=-1241/626, 4-5=-1343/636, 5-6=0/33
BOT CHORD 2-8=-558/1220, 7-8=-568/1239, 5-7=-564/1222

3-8=-133/225, 3-7=-83/88, 4-7=-134/283

NOTES (9)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; porch left and right exposed;

Lumber DOL=1.60 plate grip DOL=1.60.

3) Provide adequate drainage to prevent water ponding.

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 416 lb uplift at joint 2 and 416 lb uplift at joint 5.

3) Provide meaning our interaction (by duriers) of utoes to bearing piete capable of withstartoing 4 to ib upint at joint 2 and 4 to ib upint at joint 3.

(6) Girder carries hip end with 5-0-0 end setback.

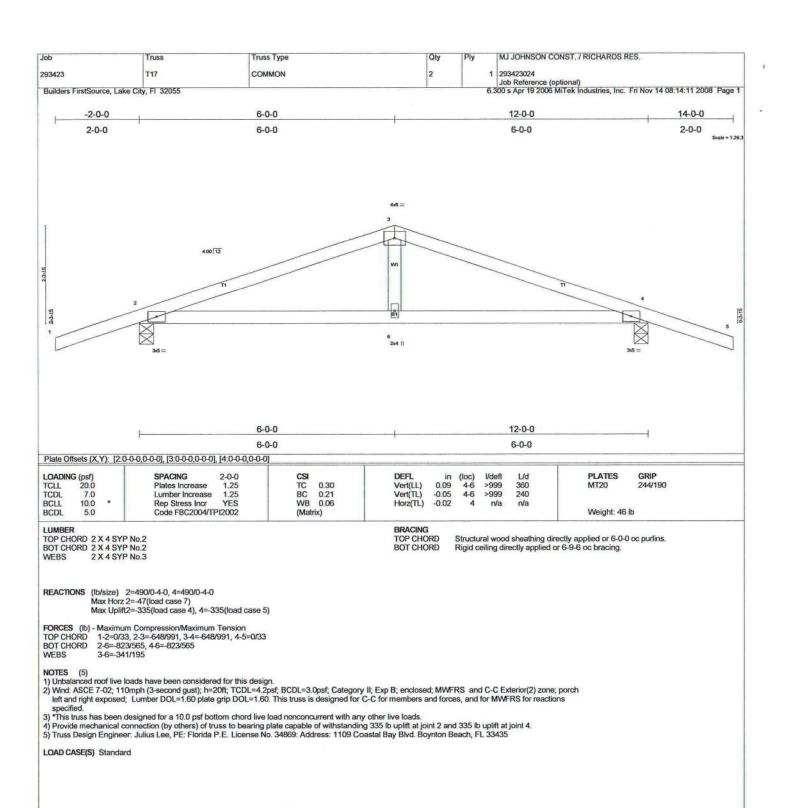
(7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 187 lb down and 62 lb up at 7-0-0, and 187 lb down and 62 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

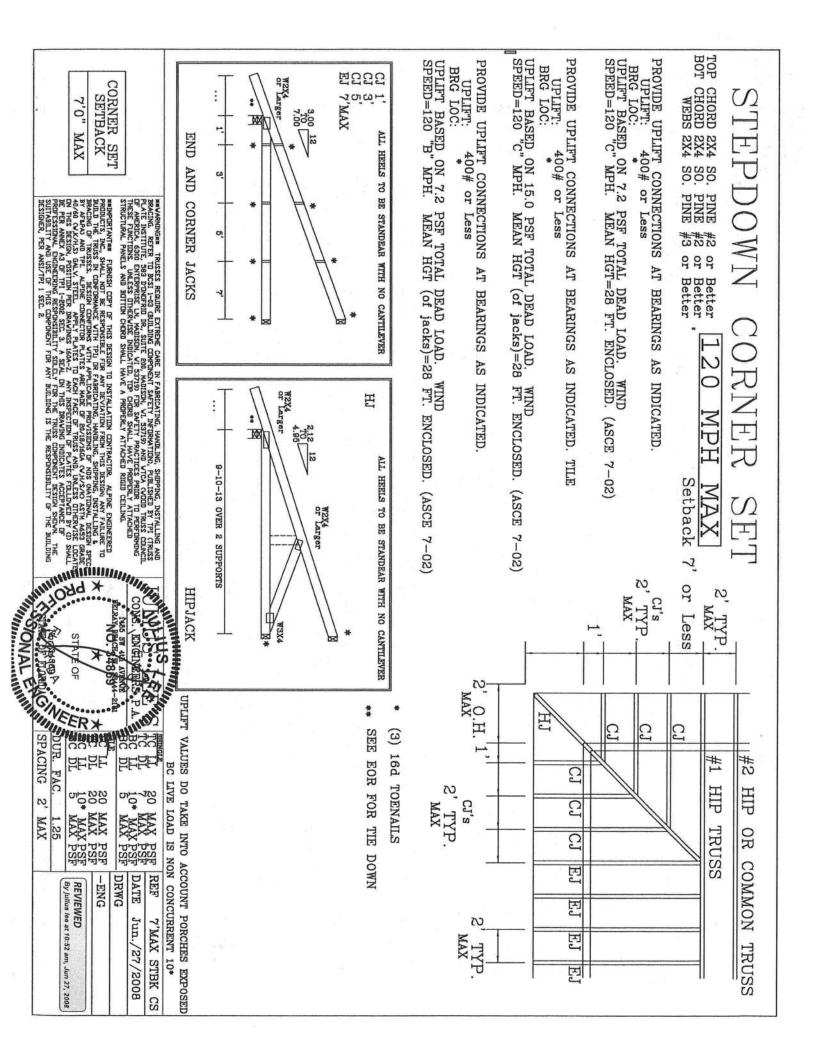
(8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pf) Vert: 1-3=-54, 3-4=-90(F=-36), 4-6=-54, 2-8=-10, 7-8=-17(F=-7), 5-7=-10 Concentrated Loads (lb)

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





ASCE ~ -02: 130 MPH MIND SPEED, 15 MEAN HEIGHT, ENCLOSED, Н 11 1.00, EXPOSURE 0

VACING GROUP SPECIES

AND GRADES:

GROUP

A.

SOUTHERN PONE

STANDARD

STANDARD

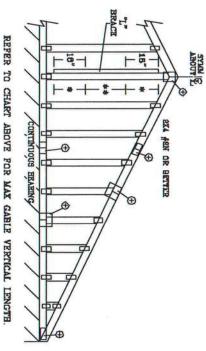
AT W BIR

DOUGLAS FIR-LARCH

GROUP B:

HEM-PIR

]	M	A	X		0	i/	I	3]		T	1	V	E	R	T	Ί	C.	A	L		L	E	N	(77	H	
		1	2	93		0	.(٦.	23	2000	1	6	33	(0	.(ζ.	ii.		2	4	>3		0	.(3.	ē	SPACING	CABTA
W	1	H.	1	7)	TIL	F F	מליו	C T T	2000	U H'	1	7	j	TTT.	ij	ULI	CITE	1		1)	TIT.		מלי	27.	SPECIES	CARLE VERMICAL
	STANDARD	STUD	£3	#23	14	STANDARD	STUD	£3	£1 / #2	STANDARD	STUD	<i>†</i> 3	#23	14	STANDARD	CUIS	BF	打 / #2	STANDARD	STUD	£4	E#	14	STANDARD	CUTS	₽ŧ	£1 / #2	GRADE	BRACE
	4' 3"	4' 4"	4 4"	4' 7"		4.			4 3										3' 4"				3' 8"		3' 3"	3' 3"	3' 4"	BRACES	5
	8' 1"	7' 1"	7. 2.	7. 4.	7' 40	6' 11"	6' 11°	6, 11,	100	5' 3"						8' 0"		6. 8.	4' 3"				5' 10"	4. 2.	4' 11"	4' 11"	6' 10"	GROUP A	(1) 1X4 °
	6' 1"	7' 1"	3, S.	7' 11"	7' 11"	6' 11"	B' 11.		A. A.		6 1 "	6. 5.	7' 2"	7, 5,	6' 2"	6' 0"	B' 0"	6, 10,	4' 8"	5' 0"	6' 0"	6' 3"	6' 3"	4, 5,	4' 11"	4' 11"	8, 0,	GROUP H	"L" BRACE .
	B' 0"	8, 9,			_	7' 10"	8, 8,	8, 8,	B' 8°	6' 11"	7' 11"	7' 11"	7' 11"		6' 10"	7' 11"			5' 8*		6, 8,			5' 6'	6' 5"		6′ 11"	GROUP A	(1) 2X4 .
37.00	8' 0"		g, 5,																5' B"					5' 6"	100	6' 6"	7' 1"	GROUP B	"L" BRACE .
	10' 5"					10' 6"	0.0157		10' 6"			9. 6.	8' 6*	8, 5,	8, 5,	8, 9,	9' 5"	9' 6"	7º 8*	8' 3"	8' 3"	8' S"	8' 3"	7' 5"	8' 8"		8' 3"	GROUP A	(2) 2X4 "L"
1	TO, 8,	10' 11"	10' 11"			10' 6"		10' 5"	10' 8"	9' 4"	8' 11"	8' 11"	10' 2"	10' 2"	8, 5,	9, 2,	9, 2,,	9. 8.	7. B.	8' 8"	8, 8,	B' 11"	B' 11°		8 3*	8' 3"	8,	GROUP B	BRACE **
	12' 6"		13' 6"			12' 3"	13' 8"	13' 8"	13' 8"	10' 10"	12' 5"	12' 6"	12' 6"	12' 5"	10' 7"	12' 4"	12' 4"	12, 6,	8' 10°	10' 3"	10' 4"	10' 10"	10' 10"	g, 8,	10' 0"	10' 1"	10' 10'	GROUP A	(1) 2X8 °L°
	12' 6"	14' 0"	1.00			12' 3"	13' 6"	13' 8"	14' 0"	10' 10"	12' 6"	12. 8.			10' 7"		12' 4"	12, 8,	8' 10"	10, 3,	10' 4"			8, 8,	10' 0"		11, 2,	GROUP	BRACE .
	14' 0"	14' 0"	14' 0"	14' 0"	14' 0°	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14. O.	12' 0"	12' 11"	12, 11,	12' 11"	12' 11"	11, 9,	12' 11"	12' 11"	12' 11"	B GROUP A GROUP	(2) ZXB "L" HRACE
100	14' 0"	14' 0"	14' 0"	14' 0"	14' 0°	14' 0"	14' 0"	14' 0"	14 0"	14' 0"	14' 0"	14 0"	14' 0°	14' D"	14' 0"	14' 0°	14' 0"	14' 0"	12' 0"	13' 7"	13' 7"	13' 11"	13' 11"	11, 8,	12' 11"	12' 11"	13′ 3"	GROUP B	HRACE -
WANT STRUCTOR AND WINDOW	101	CONTINUOUS BEARING (6	PROVIDE UPTET CHARGE	LIVE LOAD DEPLECTION CON		CAHIE TRIES			No.		SOUTHERN PINE		P. R.	工門面上	OI OI	LICAS.			STANDARD	STITLE STATE	DOUGLAS FIR-LARCH			THE STANDARD IN	ONO OTHER	IIOAO	BRACING GROUP SPE		



VERTICAL LENGTH MAY BE DOUBLED WILLY DIAGONAL HACE IS USED, CONNECT LIACONAL BEACH FOR BEAGE AT EACH IND. MAY WEB

DIAGONAL BEACE OFTION:

GABLE THUSS

TOTAL LENGTH IS 14".

DI TABLE

ABOVE.

NACES

SPY # /#A, DF-L #2,
SPY # /#A, OR SETTER
DIAGONAL BRACE:
SUNGIE OR DOUBLE
CUT (AS SECURN) AT
UPPER END.

CAHLE TRUSS DETAIL NOTES: LOAD DEPLECTION CHITERIA IS L/240.

DUTINOMES WITH S' O' OVERHAND, OR 12" PLYMOOD OVERHANG. INTENDOUS BEARING (6 PSF TO DEAD LOAD).

ATIACH EAGH "L" SHACE WITH 104 NAILS.

\$ FOR (1) "L" SHACE: SPACE NAILS AF 8" O.C.

\$ FOR (2) "L" SHACE: STACE NAILS AF 3" O.C.

BY 18" EYD ZONES AND 4" O.C. RETWEEN ZONES.

\$ FOR (2) "L" SHACE: AND 4" O.C. RETWEEN ZONES. MIMBIN LENGTH. BRACING MUST BE A MINIMUM OF BOX OF WEE

PLATES.	PEAK, SPLICE, AND BEEL PL
2.5X4	3 8
2004	GREATER THAN 4' 0', BUT
4 OR EXS	LESS THAN 4' 0°
O SPLICE	ARRINCAT CENCIH N
BIZES	GABLE VERTICAL PLATE

1 N. W. V. V. W. W. V. V. W. V. W. V. W. V. W. V. W. W. V. W.
100 March 100 Ma
DATE

LEMONO TRUSSES REQUIRE EXTREME CARE IN FARRICATING, HANGLING, SUPPING, INSTALLING AND CALL CARE OF THE CARE OF
NO. 14869 TRUST PARES IN PRINCIPAL PARES SHARE CAPE IN FARESCAPING, MADICING, SEPRING, INSTALLING AND COLOR ENGRISHERS P.A. SHARE CHATTUTE, 383 D'RICHTER MR., SAITE 200, MADISON, VI. 39739 AND VITCA VOOD TRAIS CHICKEN SHARE CHATTUTE, 383 D'RICHTER MR., SAITE 200, MADISON, VI. 39739 AND VITCA VOOD TRAIS CHICKEN SHARE CHATTUTE, 383 D'RICHTER MR., SAITE 200, MADISON, VI. 39739 AND VITCA VOOD TRAIS CHICKEN SHARE CHATTUTE, SAITE D'RICHTER SHARE CHICKEN THAT CHATTER SHARE THE CHICKEN THAT STATE THE CHATTER SHARE THE CHICKEN THAT SHARE THE CHICKEN THAT CHATTER SHARE THE CHICKEN THAT CHICKEN THAT CHICKEN THE CHIC
NO. 34869 **MARCING** TRUSSES REQUERE CAPE IN FARRICATING, SHOPPING, SHOPPING, SHOPPING, STATILINES AND COUNTY FOR CAPE IN FARRICATION PRODUCTION OF COUNTY OF CRUSS CHAPTER OF COUNTY OF
NO. 4869 NO. 4869 REVIEWED REVIEWED NAME OF THE SESS REQUES CARE IN FARECATING, MINICANG, SUPPLIC, INSTALLING AND COLLING. PLATE CHATTURE, SESS REQUESTED SESS IN FARECATING, MINICANG, SUPPLICES IN COLLING. PLATE OF THE COLLING OF THE COLLIN
NO. 14869 NO. 14869 REVIEWED BY INJURIES IN THE CORE IN FARROCATING, MINICANG, SEPRING, SEPRING, INSTALLING, SEPRING,
TRUSSES REQUIRE EXTREME CASE IN FARRICATION, MAINLING SUPPING, INSTALLING AND COLLECTION OF THE PROPERTY OF TH

ASCE 7-02: MPH WIND SPEED, 30 MEAN HEIGHT, ENCLOSED, I II 1.00, EXPOSURE 0

BRACING GROUP SPECIES AND GRADES:

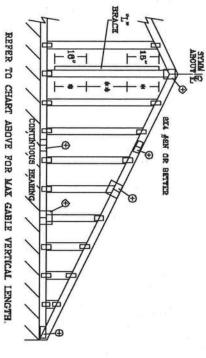
GROUP A:

STANDARD

SOUTHERN PORE

STANDARD

	_	_		_	_	_	_			_	_	_		_						_		_								
			M	Α	X		(i	A]	3]	L	E		V	E	R	Γ	Ί	C	A	L		L	E	N	(1	H	e I	
		1	2	23	9	0).	3.			1	6	33		0	.(Ξ.	•		2	4	. 33		0	.(C		SPACING	CARTI	
		ヒザ	1	7	9	TIT	HH	מקק	CDT			1 1 1	7.	ì	TIT	I I	STI	100	- AND STATE OF STATE OF	ヒザー	1 1 1	\(\frac{1}{2}\)	j	TIL	F.F.	OKI	CDI	SPACING SPECIES	CARIE VERTICAL	
	STANDARD	STUD	*3	#22	11	STANDARD	STUD	#3	£1 / #2	STANDARD	STUD	† 3	#23	+1	STANDARD	CUTS	₽\$	打 / #2	STANDARD	STUD	1 3	#23	41	STANDARD	STUD	#8	打 / #2	GRADE	BRACE	
	4' 0"		4. 22.	4 4	4 5	3' 11"			4. 0.		3 8	3. 8.	3' 11"	4.0	3. 7.	3' 7"	3' 7"	3 8	3' 0"	3 3	3 3,	3' 6"	3' 6"		3' 1"	3' 1"	3,	BRACES	Z O	
	5 6	6' 4'	8 6	l.,	8' 11"	5' 4"		8 3	6' 11"	4' 9"	5 6	5. 3.		B' 4"	4. 8.	D,	O.	8' 4'	3' 10"	4' 8"	4. 8.	5' 6"	5' 6"	3' 9"	4' 6"		5' 6'	GROUP A	(1) 1X4 °	
	5' 6"	6' 4"	6, 2,	7 6	7' 8"	5' 4"	6' 3"	6, 3,	7. 2.	4' 9"	5' 6"	6. 7.		B' 10"	4' 8"	6, 5,	5, 5,	6' 6"	3' 10"	4' 6"	4′ 6"	5' 11"		3′ 9"	4' 5"	4. 5.	6′ 8"	GROUP B	"L" BRACE .	
	7' 3"	8′ 3"	8' 3"	B' 3°	8, 3,	7' 1"	A: 3"	8' 3"	8' 3"	6' 3"	7' 3"	7' 4"	7' 8"	7' B"		7. 22.	7 2	7' 8"	6' 1"	5' 11"		6' 6"	6' B"	6′ 0″	5' 10"	3	8' 6"	GROUP	(1) ax4	
	7' 3"	8 6	8, 6,	B' 11"	B' 11"	7' 1"	8º 3º	8' 3"	8' 6"	6 3		7' 4"	8' 1"	8' 1"	Ø. 25.	7' 2"	7' 2"	7' 8"	5' 1"	5' 11"	6' 0"	7' 0"	7' 00	5. 0.	5, 10°	5' 10"	8. 9.	A GROUP B	"L" BRACE .	
The state of the s	8, 8,	9, 10,	9' 10"	8' 10"		9, 6,,		1 1		e. 2.	8' 11"	B. 11.	8' 11"	B, 11.		8' 11"	8' 11"	B' 11"	8' 11"	7' 10"	7' 10"	7' 10"	7' 10"	6, 9,	7' 10"	7' 10"	7' 10'	GROUP A	(2) 2X4 "L"	
	8, 8,	10' 4"	10' 4"	10' 7"	10' 7"	9, 6,	9' 10"	9' 10"	10, T,	B' 5°	8, 9,	8, 6,	8, 2,		8' 3"	8' 11"	8' 11"	8, S,		8'0"	8′ 1"		8, 2,	6, 9,	7' 10"		8, O.	GROUP B	BRACE **	
	11' 4"	12' 11"		12, 11,	12' 11"	11' 1"	18, 10,	12' 11"	12' 11"	8, 8,	11, 4,	11. 2.	11, 8,	11, 9,	8, 2,,	11, 1,,	11' 2"	11' 9'	B, 0,	8, 3,	9' 4"	10′ 3″	10' 3"	7' 10"			10' 3"	GROUP A	(1) 2X8	
	11' 4"	13, 1,	18' 3'	13' 11"	13' 11"	-	12' 10"		13' 4"	9, 8,		11. 6.		12' B"	8. 4.	11. 1.	11' 2"	12, 1,	- 1		9. 4.	11, 1,	11, 1,	7' 10"	9, 1,	9' 1"	10' 7"	GR	"L" BRACE .	
	14' 0"	14. O.	14' 0"	14' 0"	14' 0°	14' 0"	14' 0"	14' 0"	14. 0.	13' 3"	14' O.	T4. 0"	T4' 0*	14' O°	18, 11,	T4' 0"	14' 0"	14. Q.	10, 10,	12' 3"	12, 3,	12' 8"	12' 3"	10' 7"	12' 8"	12' 3"	12, 3,	OUP B GROUP A GROUP	(2) 2XB "L" BRACE	
8	14' 0"	14. 0.	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14 0		13' 3"	14 0	14. 0.	14' 0"		12' 11'	14' D°	14' D"	14. 0.	10' 10"	12' 6"	12′ 8′		13' 2"		12, 3,	12' 3"	12' 7"	GROUP B	" HRACE .	
CAME END SUFFORTS TOW	The second second second	LUNALITY OF THE CONNECTION		LIVE LOAD DEPLECTION ON	CABLE IRUSS I	CATIFE THE STATE OF			355	123	SOUTHERN PINE		75	SCEN-	- GROO			STATI DATA	TUTE	1	DOUGLAS FIR-LARCE	-	PL PL SIANUARU	EUCK-	GROU		BRACING GROUP SPI			



DIAGONAL HRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WERN DIAGONAL
HRACE IS USED. CONNECT
HRACH IS USED. CONNECT
HRACH TEACH TON, MAY WEB
AT EACH TON, MAY WEB
TOTAL LENGTH IS 14*.

GABLE THUSS

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

ZK4 SP OR

DT-L #2 OH

BETTIR DIAGONAL

BRACIS SINGLE

OH DOUBLE

CUT (AS SHOWN)

AT UPPER END

200	AHLE.
William India	TRUSS
No. of the last of	DETAIL
	NOTES:

AT W BIE GROUP B:

DULINDAMES MALK S, O, DAEMPHOL' OK 12, CONTENUOUS BEARING (6 PSF TC DEAD LOAD). VE LOAD DEPLECTION CHITERIA IS L/240. PLYWOOD OVERHAMG.

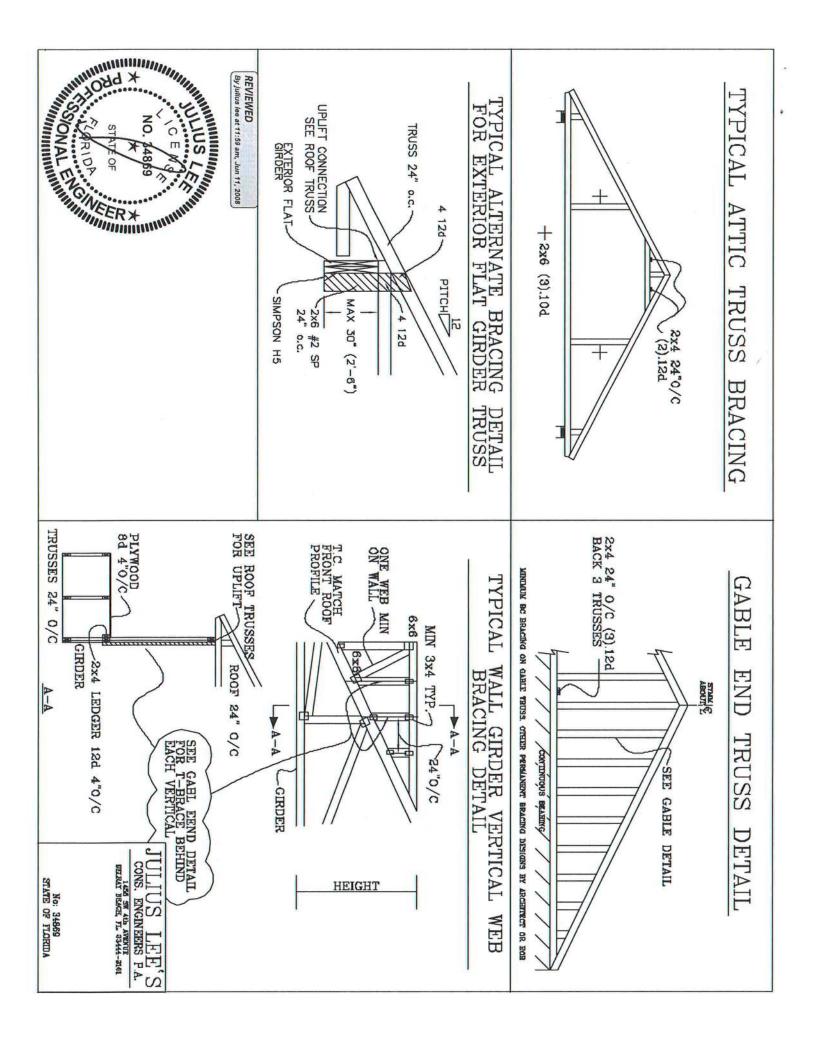
ATIACE EACH "L" ERACE WITE 104 MAIS AR 8" O.C.

\$ FOR (1) "L" ERACES, SPACE WALLS AR 8" O.C.

\$ FOR (2) "L" BRACES; SFACE WALLS AT 3" O.C.

BY 18" EYD ZONES AND 4" O.C. BETWEEN ZONES. I' BRACING MUST BE A MINIMUM OF BOX OF WEB THEN LENGTH.

CONNECT DIAGONAL AT 1/2 1/2 1/2 1/2 REFER TO CHART ABOVE	REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.	УТН .	
Man Contraction of the Contracti			REF ASCE7-02-CAB13030
ANAMONDIA TRUSSES REQUIRE EXTREME CARE IN FAMILIATING, HANDLING, SAD	INE		DATE 11/28/03
NO. 34869 ANTERIOR, SAID BUTCHER, SHE D'HOUTEN DE, SUITE AU, MUISON, ME 53719) AND WITH (MUID TRUSS COLNED. NO. 34869 ANTERIOR, 6800 ENTERPOISE LN, MUISON, ME 53719) FOR SHETTY PRACTICES PRINT TO PERCHANIST THE SE PARTICULAR HIM FOR THE POISE IN MUID AND WITH LAWS BOTTOM TO A THE POISE IN	DELBAY BEACH, PL SSA44-2161		DALC WILER SAD CYBIE 30, 5 HJ
A SEPTIMENT PANELS AND BOTTOM CHIRD SHALL HAVE A PROPERLY ATTACHED REGIO CELLING			-ENG
STATE OF THE REVIEWED		MAX. TOT. LD. 60 PSF	
By julius lee at 12:00 pm, Jun 11, 2008	W		
The Contract of the Contract o	STATE OF FLORIDA	MAX. SPACING 24.0"	
THE ON AL WINDS			



BOT CHORD CHORD 284 *** 999 BETTER BETTER

PIGGYBACK DETAIL

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SNAGS

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2.5X4

2.6X4

9XE

EX5.1

1.5X4

1.6X4

1.5X4

4X8

9XG

8X3

9XG

584

9X9

5

5X6

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 BOTION CHORD MAY BE OMITED. TRUSS TOP CHORD WITH 1.5X3 PLATE. ATTACH VERTICAL WEBS TO

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-03, CLOSED BIDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TO DI=5 PSF, WIND BC DI=5 PSF 110 MPH WIND, 30' MEAN HGT, FEC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TO DL-5 PSF, WIND BC DL-5 PSF

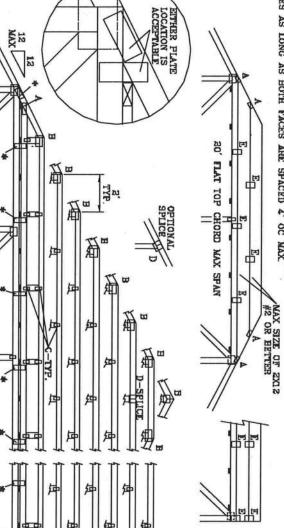
130 MFH WIND, 30' MEAN BCT, ASCE 7-02, BLDG, LOCATED ANYWHERE IN ROOF, CAT II, WIND TO DI=6 PSF EXP. C

> H Ħ C H

AXB OR SX6 TRULOX AT 4'

00,

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX. B 品 #2 OR HETTER



	WEB BRACING CHART
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
מים אים אחי	1x4 "T" BRACE. SAME GRADE, SPECIES
7 8 TO 10	TIACH WITH 8
	2x4 "T" BRACE. SAME GRADE, SPECIES
10' TO 14'	MEMBER, OR BETTER, AND 80% LENGTH
	MEMBER. ATTACH WITH 18d NAILS AT 4° OC.

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.875" EQUAL, PER FACE PER PLY. (4) NAILS IN EACH BE CONNECTED. REFER TO DRAWING 160 TL FOR

NAILS, C

28 28

INFORMATION

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF PABRICATION. ATTACH TO SUPPORTING TRUSS WITE (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS. * PIGGYBACK SPECIAL PLATE 24

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MAX LOADING ACTION REFER TO EAST I-DO GRIULING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRIEDS OF THIS CONS. ENGINEERS P.A. SAFETY AND DISCRETE UNITE 201, MADISMY, VI. 33739 AND ACTON COOM TRUSS COMPONENT SAFETY INFORMATION, VI. 33739 AND ACTON COOM TRUSS COMPONENT SAFETY INFORMATION, VI. 33739 FOR SAFETY PROCTICES PROGRED TO PROCTICES PROCTIC
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MAX LOADING TRUSSES REQUIRE CONTROLE CAME OF FABRICATING, HANGLING, SUIPPING, DISTRILLING AND ACCING REFER TO EXCS I FOR GRIPCHING COMPOUNT SAFETY PROTECTION, PUBLICATING AND THE CRUMENT OF THE COUNTRY OF THE COUNT
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TIT TIT'S MAX LOADING REF

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.

WEES 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 HOX (0.135" X 3.5") NAILS TOE-NAILED FOR
 FHC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR
 ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED
 BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

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

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

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH: PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION

PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN OR BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

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

++ LARGER SPANS NAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES

CUT FROM 2X6 OR LARGER AS REQ'D

4-0-0

MAX

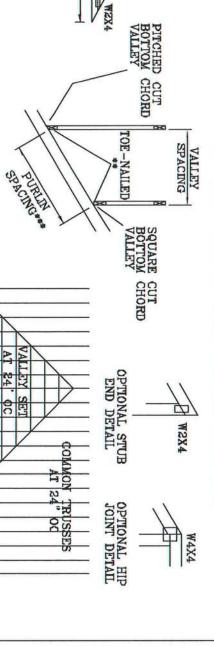
12 MAX.

W2X4

WZX4

NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



W1X3

W1X3

W1X3

MAX SPACING

18-0-0 MAX-

12 MAX

2

W4X4

8-0-0 NAX

12 MAX

12

W4X4

W1X3

W1X3 W5X4/SPL

(MAX SPACING)

W1X3

WZX4

COMMON TRUSSES

AT 24"

000

PARTIAL FRAMING

20-0-0 MAX (++)

WLX3

NO. 14869

NO. 14869

NO. 14869

REVIEWED

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

WARNINGS TRUSSES AT 24" OC MAXIMUM SPACING.

WARNINGS TRUSSES AT 24" OC MAXIMUM SPACING.

HANDLAND TRUSSES AT 24" OC MAXIMUM SPACING. HANDLAND, HANDLING, SHIPPING, DISTALLING AND STANLING AND ST

CONS. ENGINEERS P.A. DETRYA BEACH, M. SATAN-ENGI NG: 34869 STATE OF FLORIDA S H S BC LL BC DL TC DL SPACING TOT. TC DUR.FAC. 1.25 F E 32 20 0 THIS DRAWING REPLACES DRAWING A105 20 1.25 5 40 24 PSF PSF DATE PSF DRWG PSF REF -ENG IL 11/26/09 VALTRUSS1103 VALLEY DETAIL

TOE-NAILDETAIL

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."

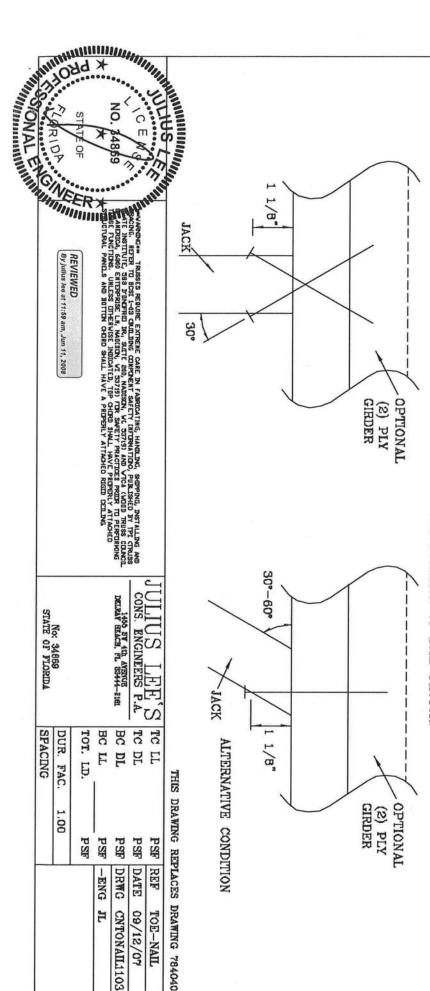
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

THE WALL AND THE CHANGE OF THE PARTY AND THE	5 493#	4 394#	3 296#	2 187#	OE-NAILS 1 PLY	NUMBER OF SOUTH
THE PERSON AND THE	639#	511#	383#	256#	2 PLIES	SOUTHERN PINE
77	452#	361#	271#	181#	1 PLY	DOUGLAS
1	585#	468#	351#	234#	2 PLIES	DOUGLAS FIR-LARCH
	390#	312#	234#	156#	1 PLY	HEM-FIR
	507#	406#	304#	203#	2 PLIES	-FIR
	384#	307#	230#	154#	1 PLY	SPRUCE
	498#	397#	298#	199#	2 PLIES	SPRUCE PINE FIR

VALUE OF STREET MAL D MOLLIFLIED DI AFFROFRIATE DORALION OF LUAU FACTUR.



CONS ENGINEERS P.A. DELIKAY BEACH, FL 33444-2161

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TC TC DL

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DRWG DATE REF

CNTONAIL1103 09/12/07 TOE-NAIL

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BC LL

No: 34869 STATE OF FLORIDA

SPACING DUR. FAC. TOT. LD.

1.00

PSH PSF PSF PSF PSH

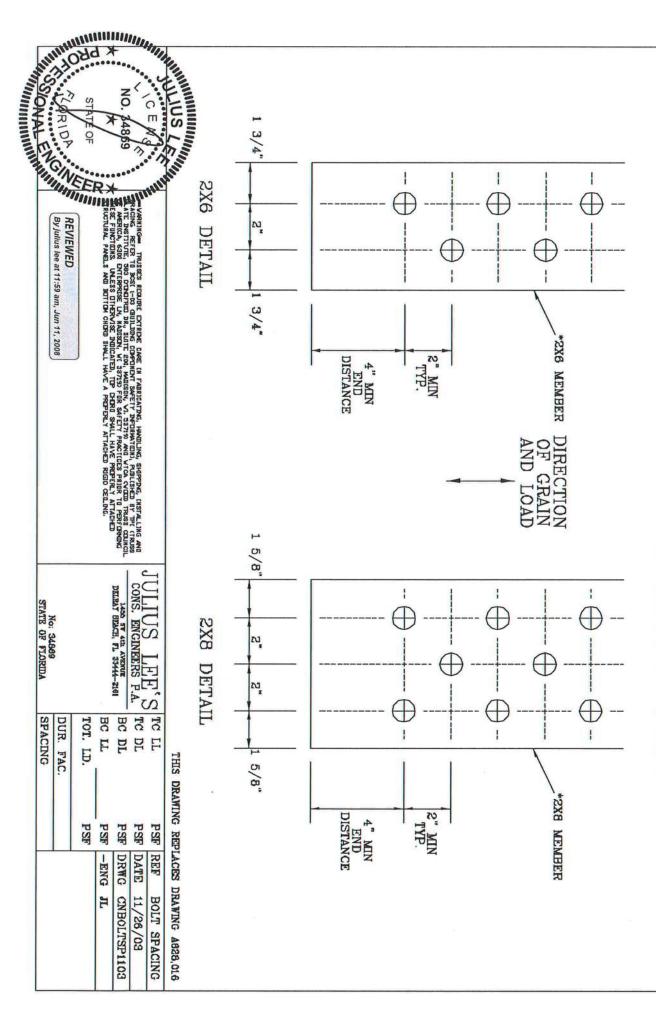
DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* 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. QUANTITIES AS NOTED ON SEALED DESIGN MUST BE IN ONE OF THE PAITERNS SHOWN BELOW. APPLIED

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



No: 34869 STATE OF FLORIDA

SPACING DUR. FAC. BC LL

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TRULOX CONNECTION

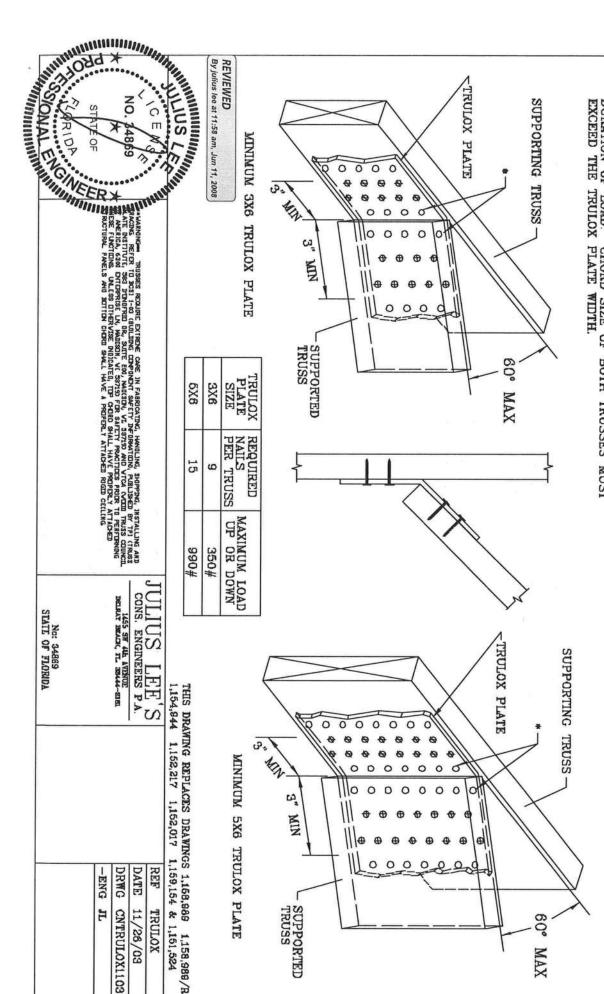
SHOWN (+). II GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE

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

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

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



DELEVAL BEACH, 12" 32444-SIEU

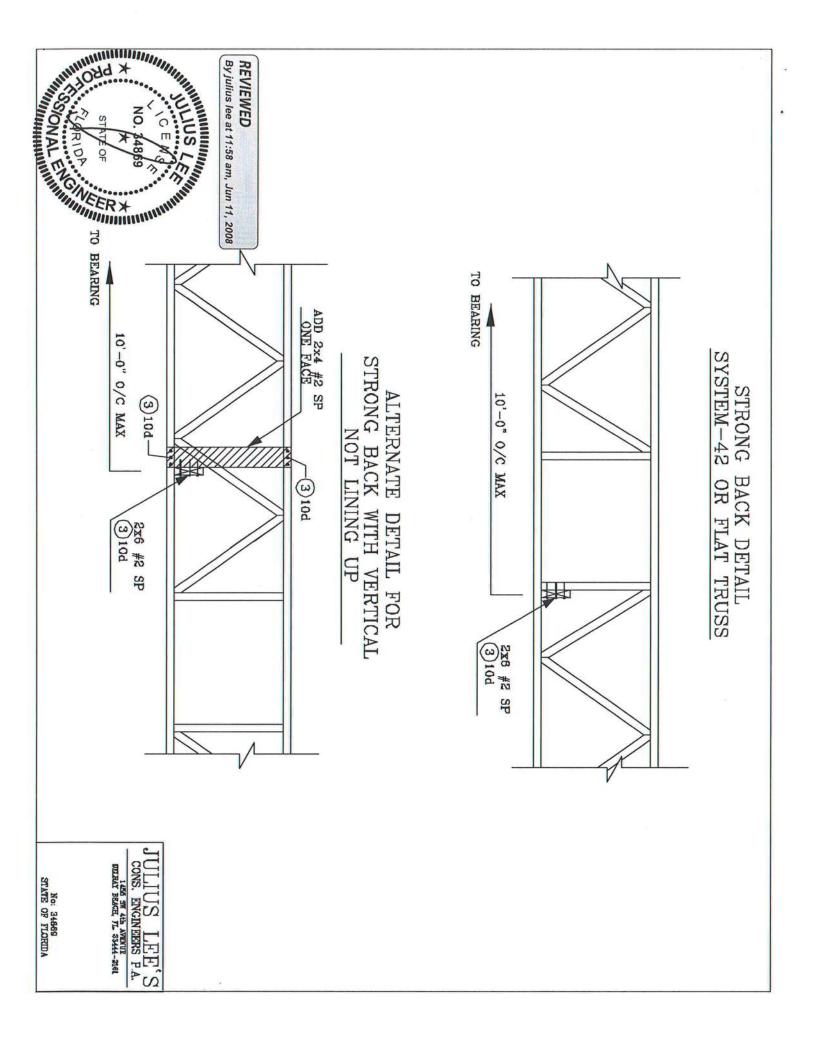
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No: 34889 STATE OF FLORIDA



MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

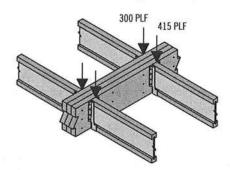
			Connector Pattern					
Connector Type	Number of Rows	Connector On-Center Spacing	Assembly A 1 2" 1 2" 1 134"	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
			3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3")	2	12"	370	280	280	245		
Nail ⁽¹⁾	3	12"	555	415	415	370	WAR CHARLES	
1/8 4207		24"	505	380	520	465	860	340
1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾	2	19.2"	635	475	655	580	1,075	425
im ough bons		16"	760	570	785	695	1,290	505
		24"	680	510	510	455		
SDS 1/4" x 31/2"(4)	2	19.2"	850	640	640	565		
	Par Verial Viscosia	16"	1,020	765	765	680		
		24"				455	465	455
SDS 1/4" x 6"(3)(4)	2	19.2"				565	580	565
		16"				680	695	680
	2	24"	480	360	360	320		
USP WS35 (4)		19.2"	600	450	450	400		
		16"	715	540	540	480		
		24"				350	525	350
USP WS6 (3)(4)	2	19.2"				440	660	440
		16"				525	790	525
33/8"	FIGURES BY	24"	635	475	475	425		
TrussLok(4)	2	19.2"	795	595	595	530		
doctor		16"	955	715	715	635		
5"		24"		500	500	445	480	445
TrussLok(4)	2	19.2"		625	625	555	600	555
		16"		750	750	665	725	665
63/4"		24"		4.103/13/2		445	620	445
TrussLok(4)	2	19.2"				555	770	555
		16"			AND THE PARTY OF T	665	925	665

Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail 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 ½ 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 $1\frac{3}{4}$ " 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 31/2" screws at 19.2" on-center.

⁽²⁾ Washers required. Bolt holes to be %6" maximum.

^{(3) 6&}quot; SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

^{(4) 24&}quot; on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

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

STATE SET OF	Tall I was	Connector Pattern						
	Number of Connectors	Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F	
Connector Type		2"				2" (1000)000000000000000000000000000000000	2"	
		2" 1 1 1 1 1 1 1 1 1	51/4" 3-ply	1¾" 3½" 5¼" 2-ply	1¾" 3½" 1¾" 7" 3-ply	2" 3½" 7" 2-ply	7" 4-ply	
	6	1,110	835	835	740			
10d (0.128" x 3")	12	2,225	1,670	1,670	1,485			
Nail	18	3,335	2,505	2,505	2,225			
	24	4,450	3,335	3,335	2,965			
SDS Screws	4	1,915	1,435(4)	1,435	1,275	1,860(2)	1,405(2)	
1/4" x 31/2" or WS35	6	2,870	2,150 (4)	2,150	1,915	2,785(2)	2,110(2)	
1/4" x 6" or WS6(1)	8	3,825	2,870 (4)	2,870	2,550	3,715(2)	2,810(2)	
92/H FH	4	2,545	1,910 (4)	1,910	1,695	1,925(3)	1,775(3)	
33/8" or 5" TrussLok™	6	3,815	2,860 (4)	2,860	2,545	2,890(3)	2,665(3)	
HUSSEUN	8	5,090	3,815 (4)	3,815	3,390	3,855(3)	3,550(3)	

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

See General Notes on page 38

- (2) 6" long screws required.
- (3) 5" long screws required.
- (4) 31/2" and 35/4" long screws must be installed on both sides.

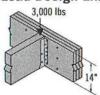
Connections

4 or 6 or Screw Connection SDS or TrussLok'* screw, typical 2", typical top and bottom ½ beam depth

8 Screw Connection SDS or TrussLok™ screw, typical 2" Equal spacing 2"

Nail Connection 10d (0.128" x 3") nails, typical. Stagger to prevent splitting. 8"-10" 2" spacing, typical 2" minimum spacing, typical There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1¾" 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 1¾" assembly, eight 3¾" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

13/4" 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 3¾" 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 ⅓ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

31/2" 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 ½ 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 ½" 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"

