

**Project Information for: L235554F1**

Builder: Lipscomb and Eagle Development Inc.  
Lot : 112-1  
Subdivision: Preserve at Laurel Lake  
County: Columbia  
Truss Count: 2  
Design Program: MiTek 20/20 6.3

**Truss Design Load Information:**

**Gravity:** **Wind:**

**Building Code:**FBC2004/TPI2002

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

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

**Engineer of Record:** James M. Lipscomb Florida P.E. License No.:CBC1253543

Address: 255, Southwest Woods Terrace Lake City, Florida 32025

**Truss Design Engineer:** Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**Notes:**

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

#	Truss ID	Dwg. #	Seal Date
1	F01	J1917170	12/12/07
2	F02KW	J1917171	12/12/07



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December 12,2007

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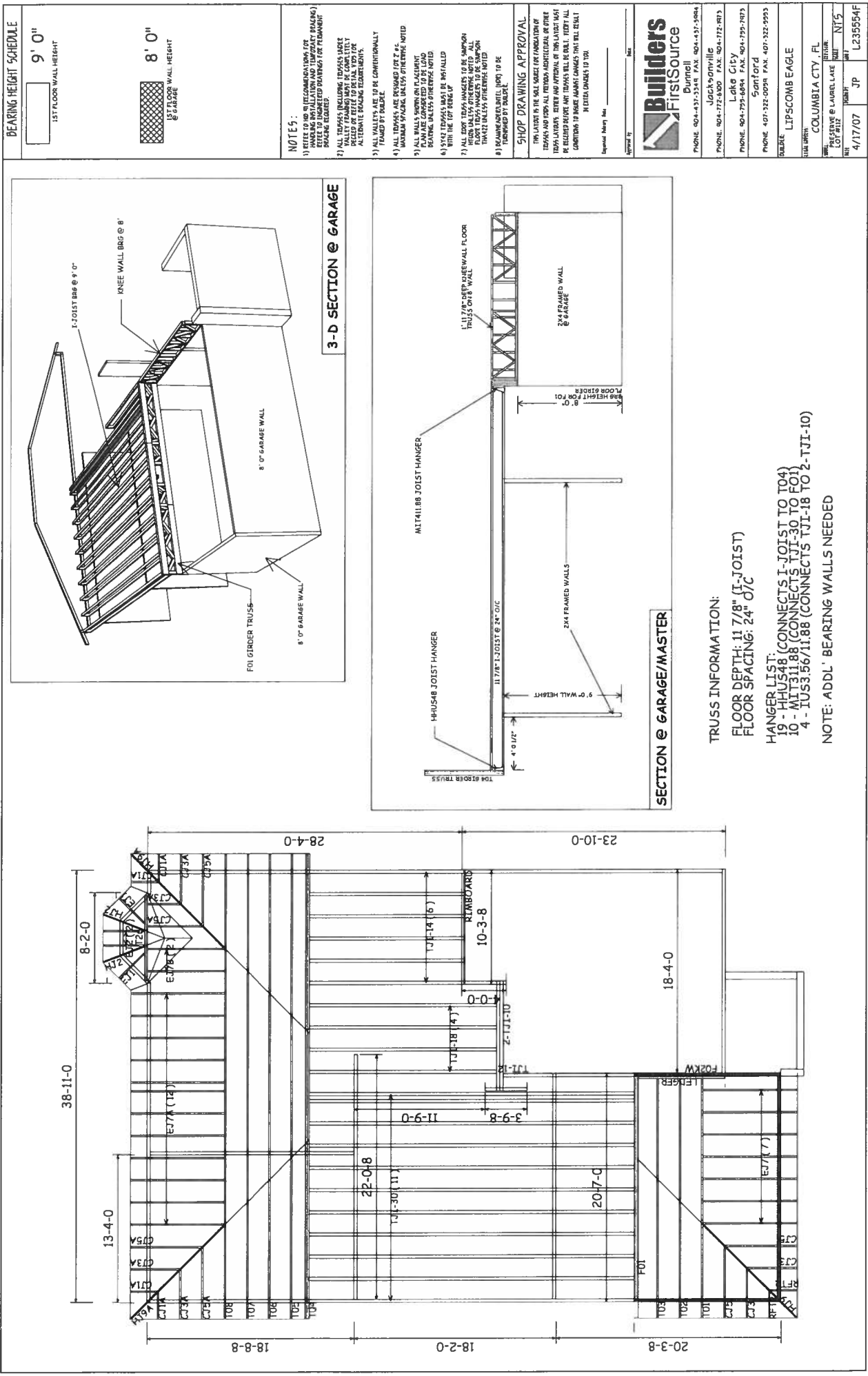
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#	Truss ID	Dwg. #	Seal Date
1	F01	J1917170	12/12/07
2	F02KW	J1917171	12/12/07



Job	Truss	Truss Type	Qty	Ply	0 0	J1917170
L235554F	F01	FLOOR	1	<b>3</b>	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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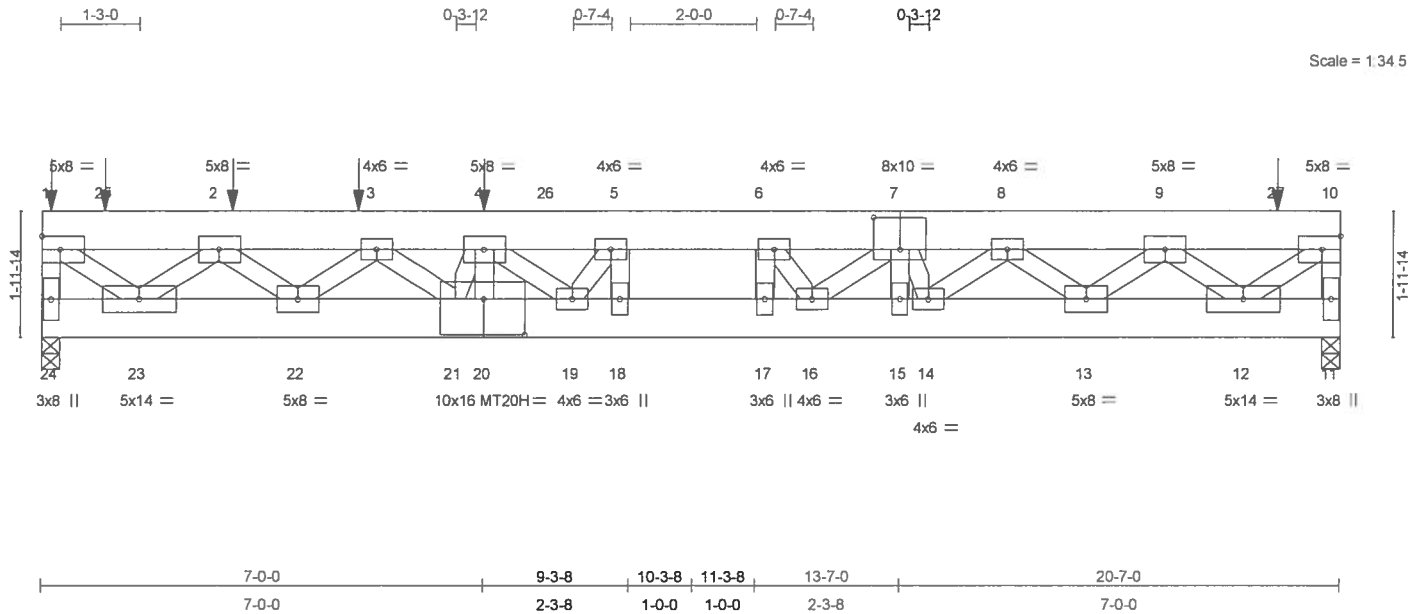


Plate Offsets (X,Y): [7:0-5-0,0-6-0], [20:0-7-12,0-6-12]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase	1.00	TC 0.82	Vert(LL)	-0.28 17-18	>869	360	MT20	244/190
TCDL 10.0	Lumber Increase	1.00	BC 0.74	Vert(TL)	-0.52 17-18	>467	240	MT20H	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.76	Horz(TL)	0.09 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 496 lb

#### LUMBER

TOP CHORD 2 X 8 SYP 2400F 2.0E  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.2 \*Except\*  
 4-20 2 X 4 SYP No.3, 5-18 2 X 4 SYP No.3  
 6-17 2 X 4 SYP No.3, 7-15 2 X 4 SYP No.3  
 4-21 2 X 4 SYP No.3, 5-19 2 X 4 SYP No.3  
 6-16 2 X 4 SYP No.3, 7-14 2 X 4 SYP No.3

#### BRACING

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

REACTIONS (lb/size) 24=8670/0-3-8, 11=10403/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-7585/0, 10-11=-9040/0, 1-25=-7026/0, 2-25=-7026/0, 2-3=-18913/0, 3-4=-28209/0,  
 4-26=-31857/0, 5-26=-31857/0, 5-6=-32875/0, 6-7=-31950/0, 7-8=-28759/0, 8-9=-20627/0,  
 9-27=-8108/0, 10-27=-8108/0  
 BOT CHORD 23-24=0/887, 22-23=0/13478, 21-22=0/24139, 20-21=0/29491, 19-20=0/29491,  
 18-19=0/32875, 17-18=0/32875, 16-17=0/32875, 15-16=0/29794, 14-15=0/29794,  
 13-14=0/25519, 12-13=0/15569, 11-12=0/1143  
 WEBS 4-20=-1008/0, 5-18=-948/707, 6-17=-1001/663, 7-15=-688/0, 1-23=0/8649, 2-23=-9631/0,  
 2-22=0/8115, 3-22=-7800/0, 3-21=0/6076, 4-21=-4083/0, 4-19=0/3332, 5-19=-2666/304,  
 7-16=0/3037, 6-16=-2553/440, 10-12=0/9814, 9-12=-11138/0, 9-13=0/7550, 8-13=-7302/0,  
 8-14=0/4838, 7-14=-3294/0

#### JOINT STRESS INDEX

1 = 0.79, 2 = 0.91, 3 = 0.94, 4 = 0.58, 5 = 0.25, 6 = 0.25, 7 = 0.80, 8 = 0.94, 9 = 0.91, 10 = 0.79, 11 = 0.74, 12 = 0.87, 13 = 0.79, 14 = 0.94, 15 = 0.14, 16 = 0.51, 17 = 0.14, 18 = 0.14, 19 = 0.51, 20 = 0.96, 21 = 0.00, 22 = 0.79, 23 = 0.87 and 24 = 0.74

December 12, 2007

Continued on page 2

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

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



Job	Truss	Truss Type	Qty	Ply	0 0	J1917170
L235554F	F01	FLOOR	1	<b>3</b>	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced floor live loads have been considered for this design.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

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

#### LOAD CASE(S) Standard Except:

- 1) Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 11-24=-10, 1-26=-421(F=-201), 26-27=-936(F=-201), 10-27=-421(F=-201)

Concentrated Loads (lb)

Vert: 1=-407 4=-2028 2=-204 3=-257 25=-179 27=-1292

Julius L. Lee  
Truss Design Engineer  
Florida PE No. 34898  
11000 Coastal Bay Blvd  
Daytona Beach, FL 32115

December 12, 2007

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Job	Truss	Truss Type	Qty	Ply	0 0	J1917171
L235554F	F02KW	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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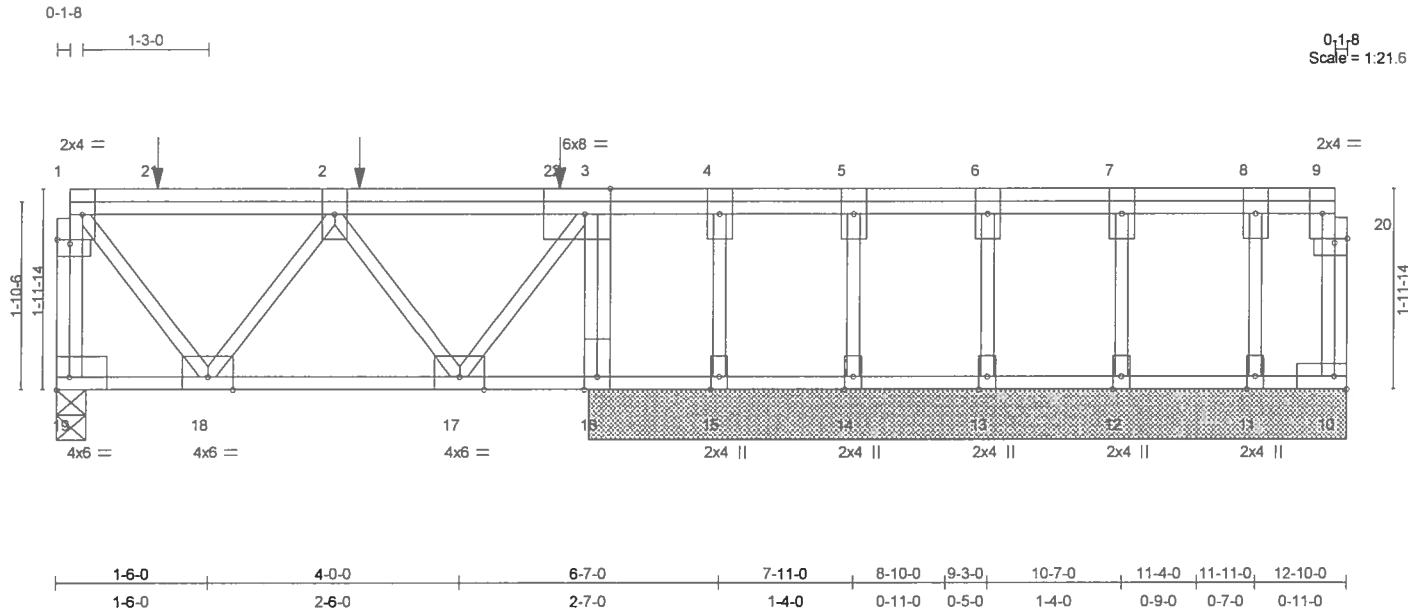


Plate Offsets (X,Y): [1:0-1-8,0-0-8], [3:0-3-0,Edge], [19:Edge,0-1-8], [20:0-1-8,0-0-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase	1.00	TC 0.94	Vert(LL)	-0.01 17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber Increase	1.00	BC 0.26	Vert(TL)	-0.02 17-18	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.34	Horz(TL)	0.00 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 95 lb	

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 19=1167/0-3-8, 10=24/7-6-8, 16=1432/7-6-8, 15=-5/7-6-8, 14=178/7-6-8, 13=139/7-6-8, 12=153/7-6-8, 11=126/7-6-8  
 Max Uplift 15=-5(load case 1)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=-1162/0, 10-20=-21/0, 9-20=-21/0, 1-21=-525/0, 2-21=-520/0, 2-22=-515/0, 3-22=-515/0, 3-4=-1/0, 4-5=-1/0, 5-6=-1/0, 6-7=-1/0, 7-8=-1/0, 8-9=-1/0  
 BOT CHORD 18-19=0/0, 17-18=0/974, 16-17=0/1, 15-16=0/1, 14-15=0/1, 13-14=0/1, 12-13=0/1, 11-12=0/1, 10-11=0/1  
 WEBS 1-18=0/853, 2-18=-795/0, 2-17=-806/0, 3-17=0/848, 3-16=-1405/0, 4-15=0/8, 5-14=-162/0, 6-13=-126/0, 7-12=-139/0, 8-11=-114/0

#### JOINT STRESS INDEX

1 = 0.85, 1 = 0.00, 2 = 0.57, 3 = 0.52, 4 = 0.00, 5 = 0.07, 6 = 0.05, 7 = 0.06, 8 = 0.05, 9 = 0.01, 10 = 0.02, 11 = 0.07, 12 = 0.09, 13 = 0.08, 14 = 0.10, 15 = 0.01, 16 = 0.61, 17 = 0.64, 18 = 0.65, 19 = 0.54, 20 = 0.00 and 20 = 0.00

#### NOTES

- All plates are 3x6 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 15.

John A. Lee  
 Truss Design Engineer  
 Builders FirstSource  
 1800 Enterprise Lane, Madison, WI 53719

December 12, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	0 0
L235554F	F02KW	GABLE	1	1	J1917171
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

#### LOAD CASE(S)

- 1) Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-19=-10, 1-3=-220, 3-9=-100

Concentrated Loads (lb)

Vert: 2=-380 21=-446 22=-380

Truss Design Engineer  
 Truss Design No. 3-18001  
 11/14/2007  
 DESIGNER: T. L. 00430

December 12, 2007

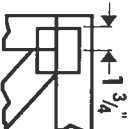
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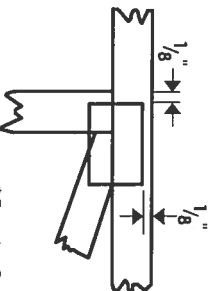


# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

## PLATE SIZE

4 X 4

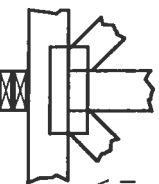
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



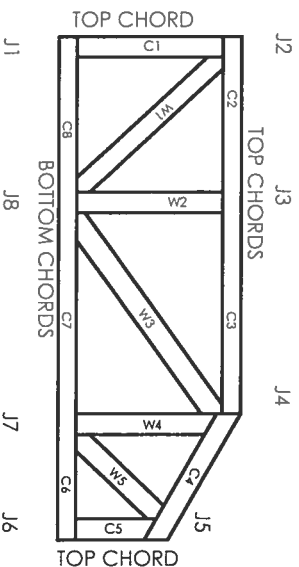
Indicates location of required continuous lateral bracing.

## BEARING



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

# Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

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



MITek Engineering Reference Sheet: MIT-7473

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

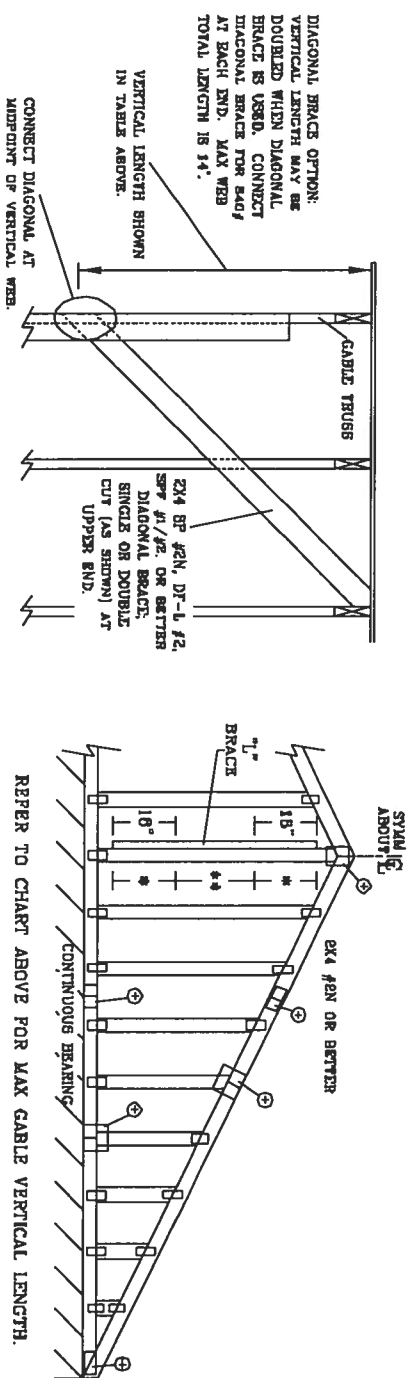
1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless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

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

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



BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPRUCE-PINE-FIR	DOUGLAS FIR-LARCH	SPRUCE-PINE-FIR	DOUGLAS FIR-LARCH
#1 / #2 STANDARD	#1 / #2 STANDARD	#1 / #2 STANDARD	#1 / #2 STANDARD
#3 STUD	#3 STUD	#3 STUD	#3 STUD
STANDARD	STANDARD	STANDARD	STANDARD

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .  
PROVIDE UPLIFT CONNECTIONS FOR 130 PSF OVER  
CONTINUOUS BEARING (6 PSF TC DEAD LOAD).  
CABLE END SUPPORTS LOAD FROM 4' 0"  
OUTLEAKERS WITH 2' 0" OVERHANG, OR 12"  
PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d 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.

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

WARNING: TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
BRACING. REFER TO DESI 1-03 (BUILDING INFORMATION, PUBLISHED BY IP) TRUSSES  
PLATE INSTITUTE, 283 DOWNSIDE DR., SUITE 200, MADISON, VI. 53719 AND VITA LOAD TRUSS CONSULT  
OF AMERICA, 6300 ENTERPRISE LN, MADISON, VI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING  
TRUSS ERECTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROTECTIVE ATTACHED  
STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROTECTIVE ATTACHED RIGID CEILING.

JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1456 67 4th AVENUE  
DELRAY BEACH, FL 33444-5161

No. 34869  
STATE OF FLORIDA

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

REF ASCE7-02-CAB13015  
DATE 11/26/03  
DRWG MTRK STD CABLE 16 E HT  
-ENG

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

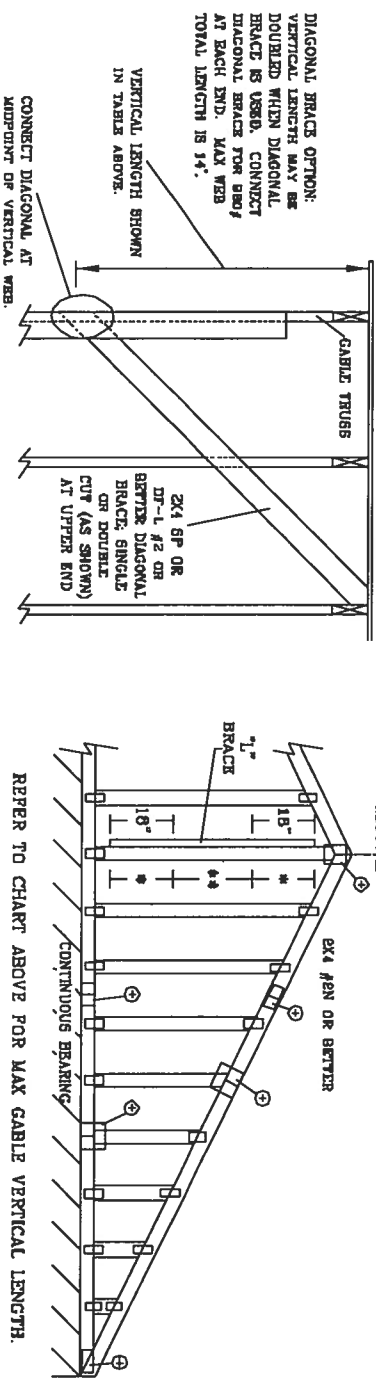
BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPURCE-PINE- FIR		HWD- FIR	
#1	#2	#1 & BTR	
STUD	STANDARD	#1	
DOUGLAS FIR- LARCH		SOUTHERN PINE	
#3	#3	#3	
STUD	STUD	STUD	
STANDARD	STANDARD	STANDARD	
SOUTHERN PINE		DOUGLAS FIR- LARCH	
#1		#1	
#2		#2	

LIVE LOAD DEFLECTION CAMERA IS L/240.  
PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER  
CONTINUOUS BEARING (6 PSF TC DEAD LOAD).  
CABLE END SUPPORTS DEAD FROM 4" 0"  
OUTDOORS WITH 2" 0" OVERHANG, OR 12"  
PLYWOOD OVERHANG.

ATTACH EACH T<sup>2</sup> BRACE WITH 10d NAILS.  
 \* FOR (1) T<sup>2</sup> BRACES: SPACE NAILS AT 8" O.C.  
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES  
 \*\* FOR (2) T<sup>2</sup> BRACES: SPACE NAILS AT 3" O.C.  
 IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.  
 T<sup>2</sup> BRACING MUST BE A MINIMUM OF 80% OF WEB  
 MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR EX3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFERS TO COMMON TRUSS DESIGN FOR  
PEAK, SPUR, AND HEEL PLATES.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH

BRANCO, CHAIRMAN, COUNCIL, CYRUS C. FARMINGTON, HANDLING, SHIMPO, INST. ALING AND BROWN, REFER TO BEST-1-403 BUILDING CONCRETE SAFETY INSTRUCTIONS, PHILIP S. HARRIS, R. L. PLATE, INSTITUTE, 2133 DUNSTON DR., SUITE 100, HANSON, WI. 53799 AND LYCA, 1400 18TH STREET, CHICAGO, IL 60606, ENTERPRISE, LA, MOBILE, WI 53199 FOR SPECIFIC PRACTICES PRIOR TO PROCEEDING WITH THIS PLAN. UNLESS THERE IS NO INDICATION, TOP CHORD SHALL HAVE PROPERLY ATTACHED RIGID FIBERGLASS PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.

1456 BR 4th AVENUE  
DELRAY BEACH, FL 33444-2161

REF	ASCB7-02-CAB13030
DATE	11/26/03
DWG	MITEK STD CABLE 30' E MT
--ENG	

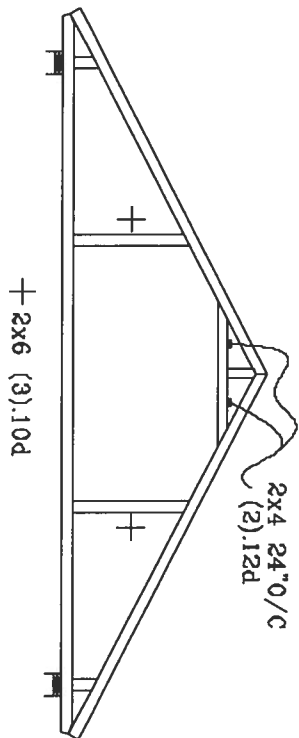
-ENG

MAX. TOT. LD. 60 PSF

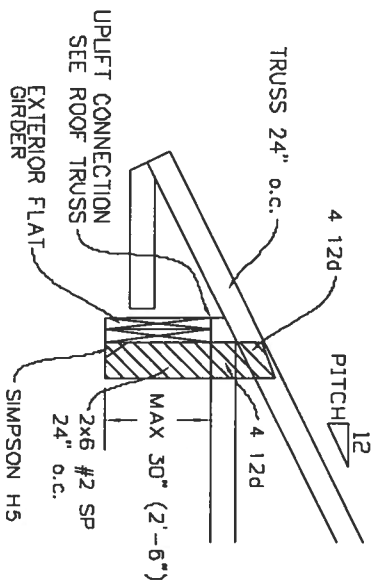
**No: 34868**  
**STATE OF FLORIDA**

MAX SPACING 24.0"

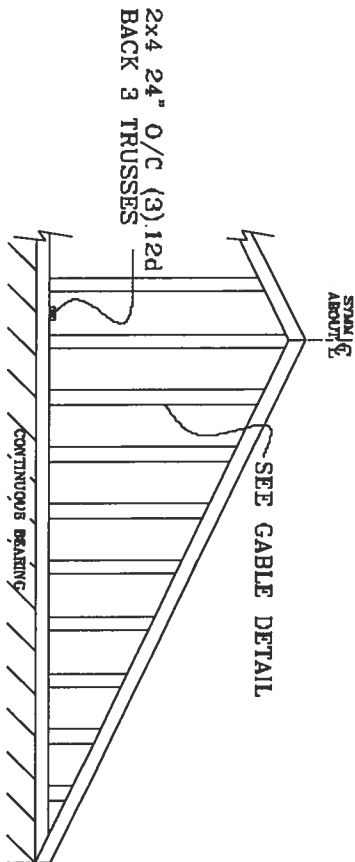
# TYPICAL ATTIC TRUSS BRACING



# TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

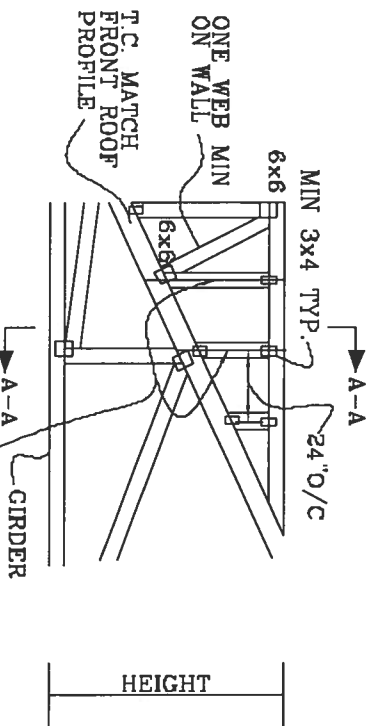


# GABLE END TRUSS DETAIL



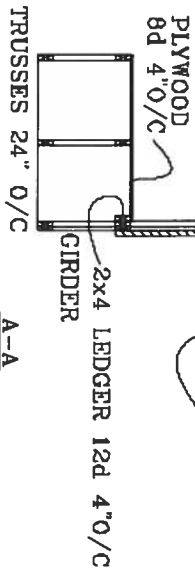
MINIMUM BC BRACING ON GABLE TRUSS, OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOR

# TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT ROOF 24" O/C

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



**JULIUS LEE'S**  
CONS. ENGINEERS P.A.  
1456 SW 4TH AVENUE  
DELRAY BEACH, FL 33444-2161

No. 34669  
STATE OF FLORIDA

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 PLAT 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

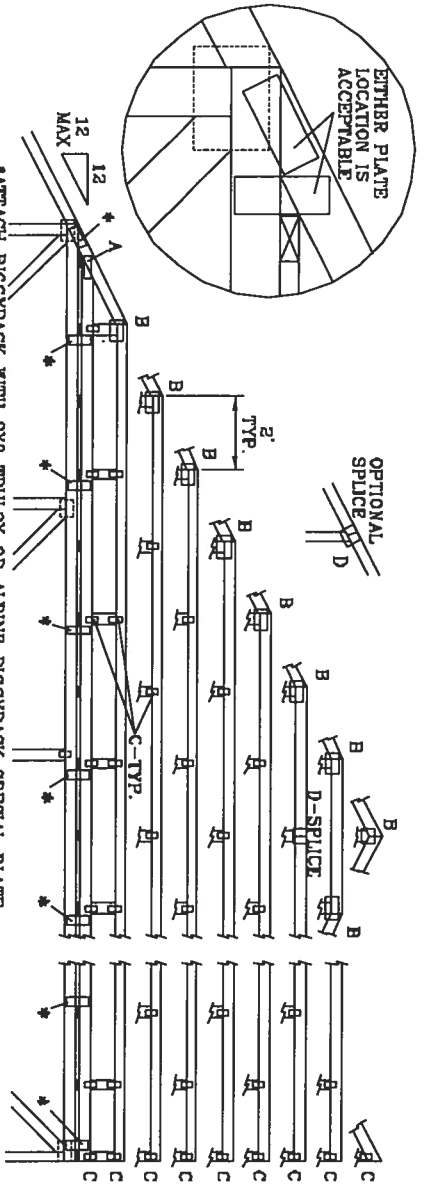
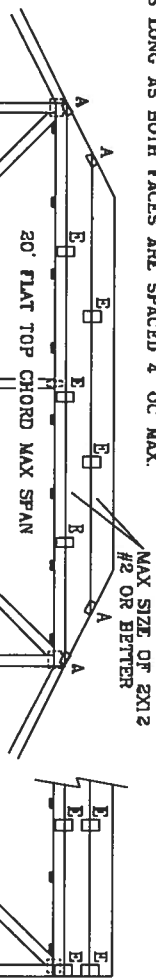
CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

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



\*ATTACH PIGGYBACK WITH 3X8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

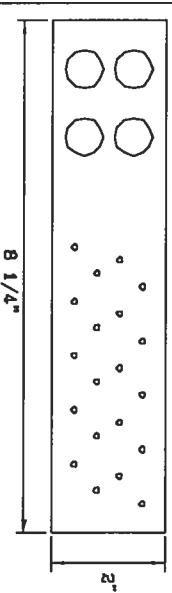
REVIEWING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO WEST 1-800 BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY THE TRUSS ASSOCIATION, 3801 BROAD RD. DR., SUITE 200, HANOVER, VA 22979 AND VTRC CREDIT TRUSS COUNCIL, 1000 N. 10TH ST., SUITE 100, DENVER, CO 80202. THESE TRUSSES ARE NOT TO BE USED FOR ANY OTHER FUNCTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED CEILING STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BIRD CEILING.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X6	5X6	5X6
E	4X6 OR 3X8 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 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4' OC.
10' TO 14'	2X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

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



THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.

1408 SW 4TH AVENUE  
DORAL, FLORIDA 33126-2161

MAX LOADING

55 PSF AT

1.33 DUR. FAC.

50 PSF AT

1.25 DUR. FAC.

47 PSF AT

1.15 DUR. FAC.

SPACING 24.0"

REF PIGGYBACK

DATE 09/12/07

DRWG/ITEK STD PIGGY

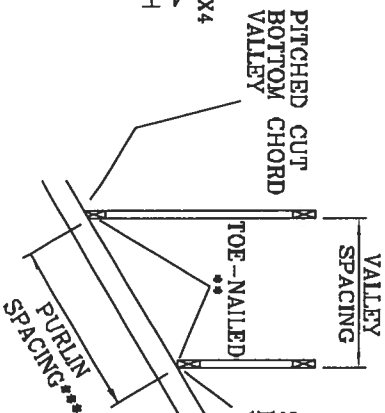
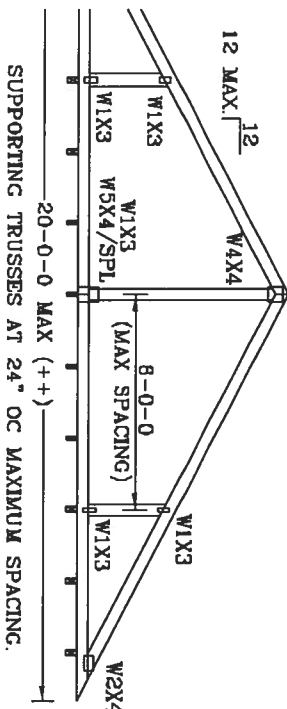
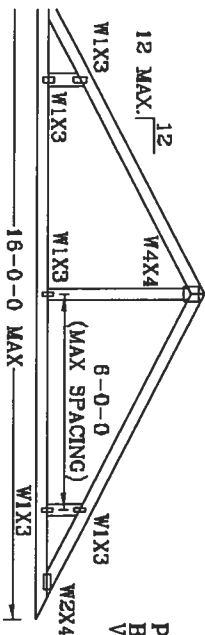
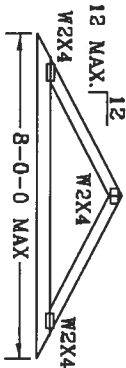
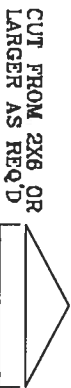
-ENG JL

No. 34888  
STATE OF FLORIDA

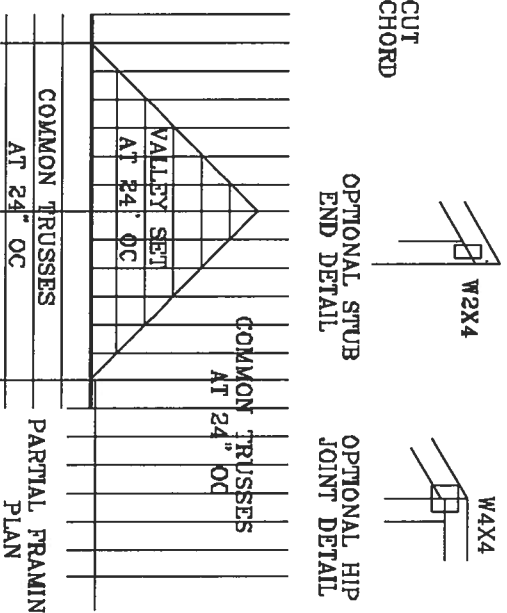
# VALLEY TRUSS DETAIL

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=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.



UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "I"-BRACE, 80%  
LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED  
WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING,  
EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".  
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".  
TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:  
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS  
INSTALLATION  
OR  
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN  
OR  
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON  
ENGINEERS' SEALED DESIGN.

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

JULIUS LEE'S  
CONS. ENGINEERS P.A.  
1655 SW 4TH AVENUE  
BOCA RATON, FL 33444-5101  
No. 34869  
STATE OF FLORIDA

THIS DRAWING REPLACES DRAWING A105

# 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."

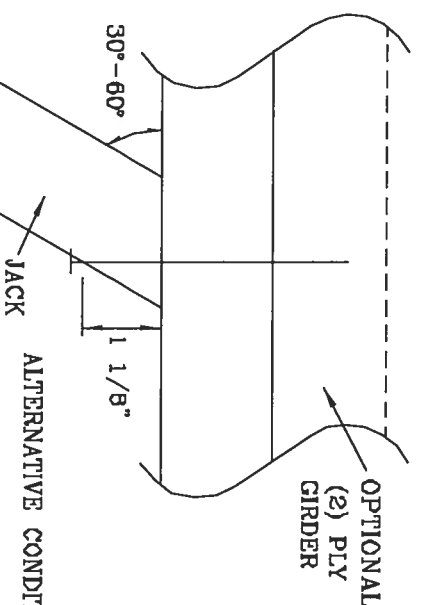
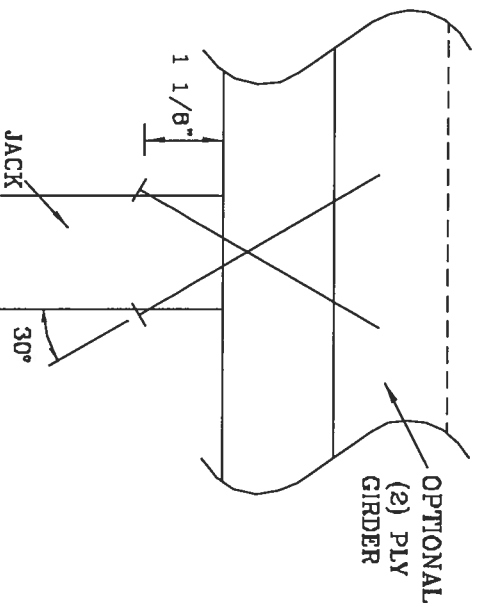
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	381#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

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



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, STORING, INSTALLING AND BRACING. REFER TO BC&I 1-03 GRADING, COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 388 DUNDAS RD., SUITE 200, MADISON, WI 53719, AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.

1495 SW 4TH AVENUE  
DELMAR BEACH, FL 33444-2161

No. 34869  
STATE OF FLORIDA

TC LL PSF REF TOE-NAIL

TC DL PSF DATE 09/12/07

BC DL PSF DRWG C/T0NAIL1103

BC LL PSF -ENG JL

TOT. LD. PSF

DUR. FAC. 1.00

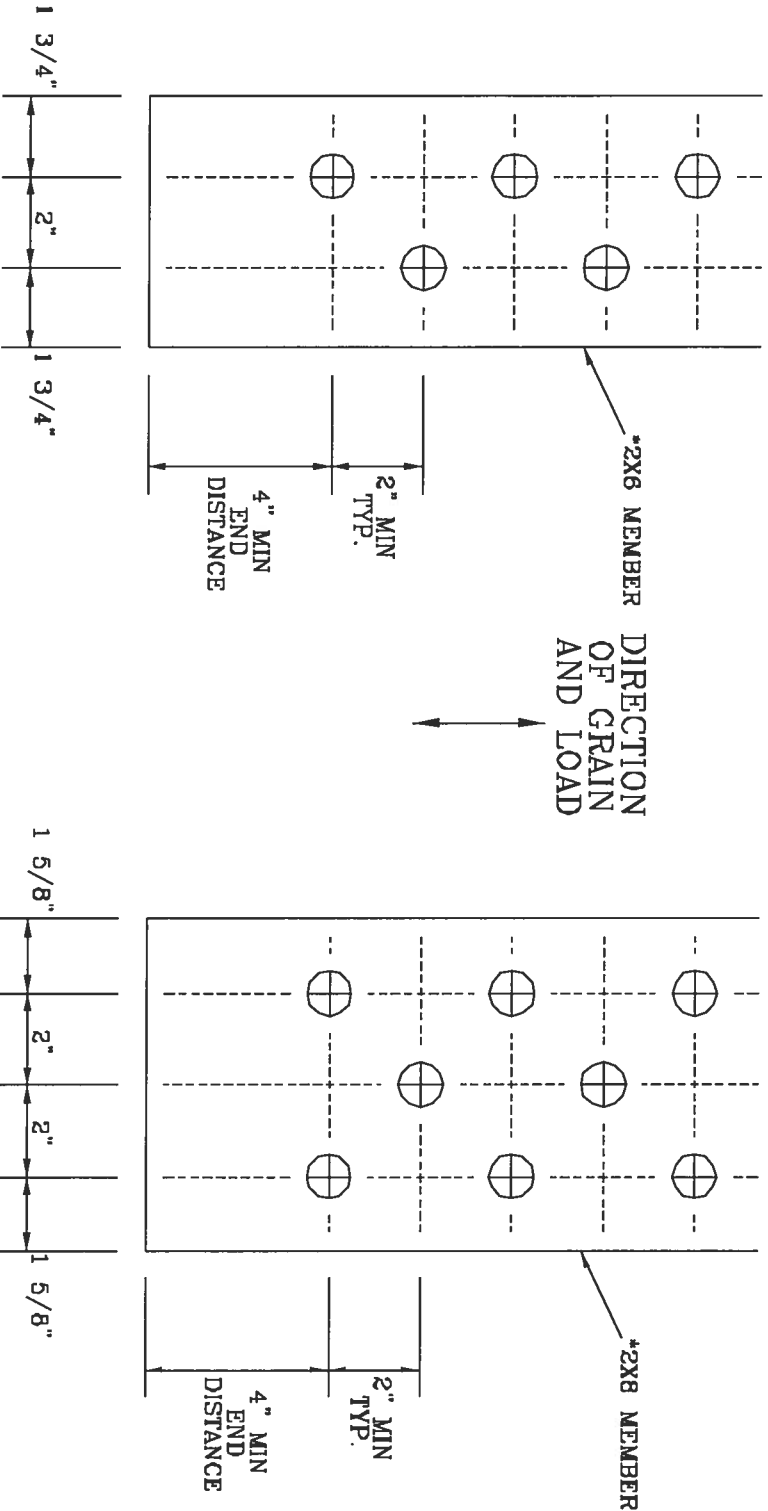
SPACING

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 A028.016

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-93 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS OF AMERICA, 6000 ENTERPRISE LN., MADISON, WI 53719) AND VICA CYCLO TRUSS COUNCIL (1000 N. 10TH ST., SUITE 100, MILWAUKEE, WI 53233) FOR THE LATEST RECOMMENDED PRACTICES FOR PERFORMING STRUCTURAL PANELS AND JOINTS CORRECTLY. HAVE A PROJECT ATTACHED TO THIS DRAWING.

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No: 34889		STATE OF FLORIDA	
TC LL	PST	REF	BOLT SPACING
TC DL	PST	DATE	11/26/03
BC DL	PST	DRWG	CNBOLTSPI103
BC LL	PST	-ENG JL	
TOT. LD.	PST		
DUR. FAC.			
SPACING			

# TRULOX CONNECTION DETAIL

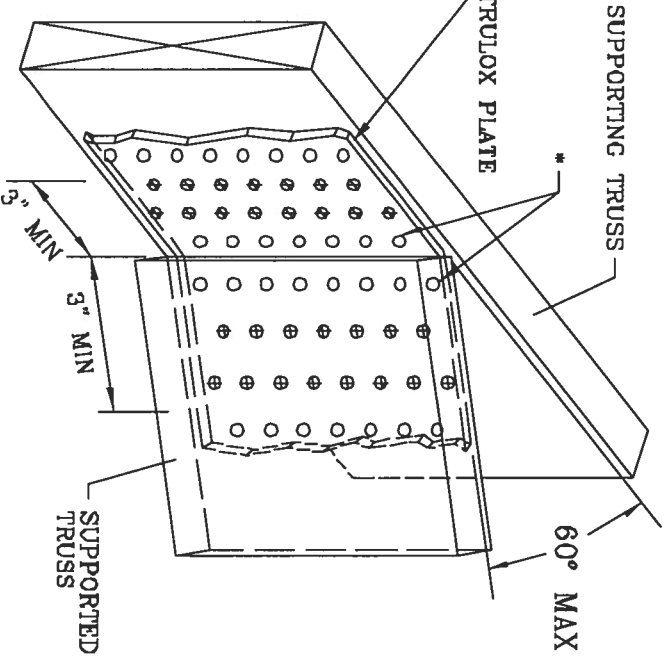
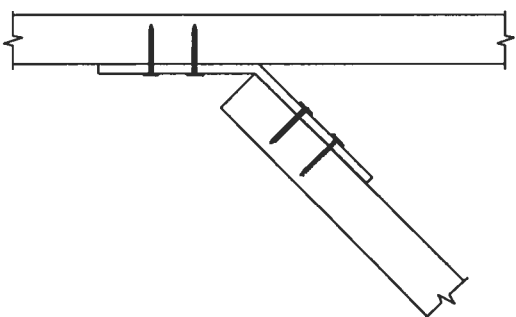
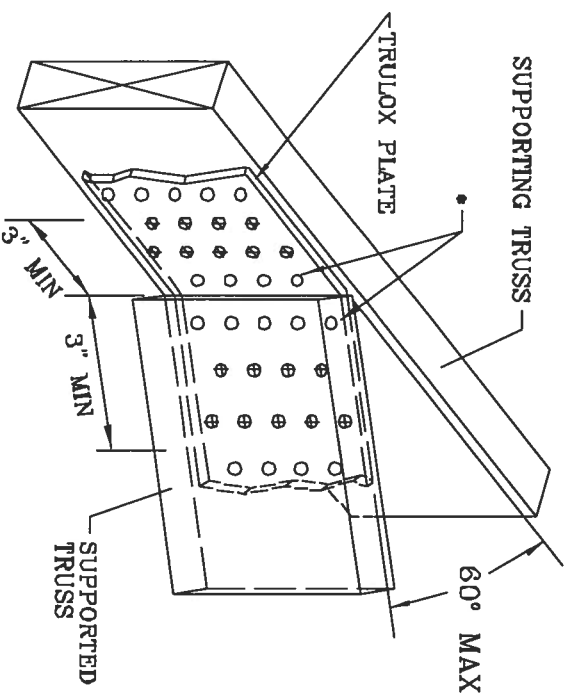
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

\* 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.



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

\*WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TRUSS MANUFACTURING INSTITUTE, 560 DOWNSIDE DR. SUITE 200, WILMINGTON, VI 32719 AND APPROVED TRUSS CONSULTANTS OF AMERICA, 6300 ENTERPRISE LN. WILSON, VI 30719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**JULIUS LEE'S**  
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1455 SW 4TH AVENUE  
DELAIR BEACH, FL 33444-2101

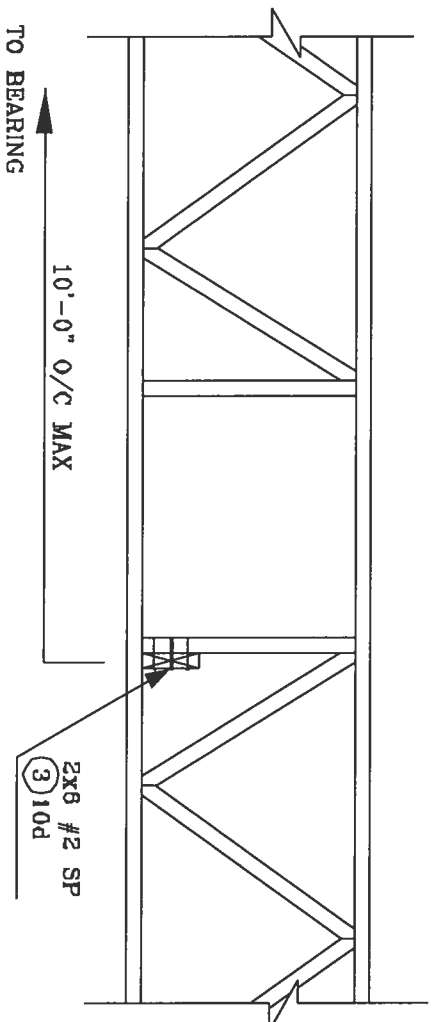
No: 34859  
STATE OF FLORIDA

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

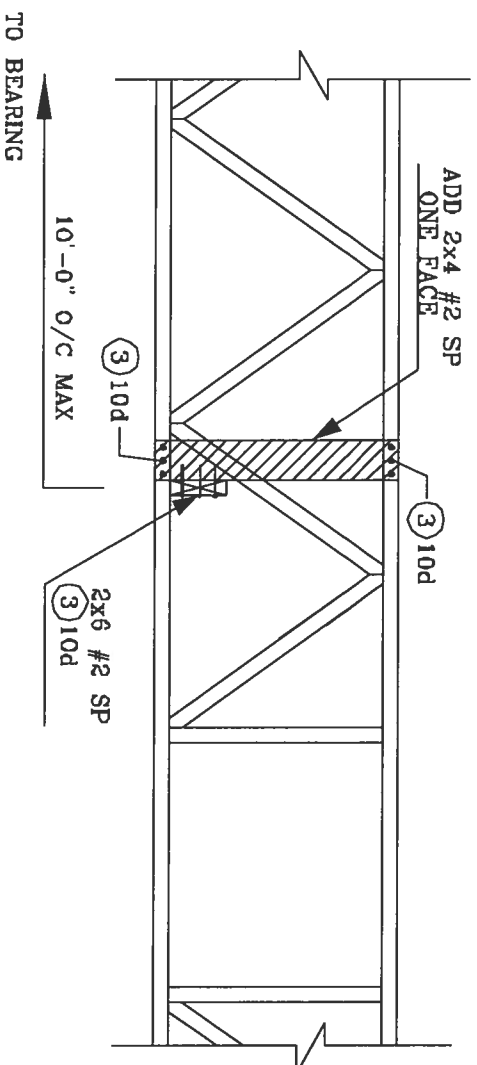
THIS DRAWING REPLACES DRAWINGS 1,158,888 1,158,888/R  
1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524



# STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



## ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



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No: 34869  
STATE OF FLORIDA