Julius Lee

RE: 384283 - TOMMY BULLOCK RES.

1109 Coastal Bay Blvd. **Boynton Beach, FL 33435**

Site Information:

Project Customer: TOMMY BULLOCK - O/H Project Name: 384283 Model: CUSTOM

Lot/Block:

Subdivision:

Address: 563 SW BLAYLOCK CT

City: COLUMBIA CTY

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010/TPI2007

Design Program: MiTek 20/20 7.3

Wind Code: ASCE 7-10 Wind Speed: 130 mph

Floor Load: 65.0 psf

Roof Load: N/A psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules. This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

No.	Seal#	Truss Name	Date
1	15328166	F01	3/13/012
2	15328167	F01G	3/13/012
3	15328168	F02	3/13/012
4	15328169	F02G	3/13/012
5	15328170	F03	3/13/012
6	15328171	F03G	3/13/012
7	15328172	F04	3/13/012
8	15328173	F05	3/13/012
9	15328174	F06	3/13/012
10	15328175	KW1	3/13/012



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

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.

/////////////March 13,2012

1 of 1

Julius Lee

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Job Truss Type TOMMY BULLOCK RES russ Qtv 15328166 384283 FLOOR Job Reference (optional) Builders FirstSource Lake City, FL 32055 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:36 2012 Page 1 ID:pIA1b?WDKrd9HPiAWzEtAmzAHWn-Vq3pgLlzg8QWXdGa9TSIBnu3UE3wgmW5wS5Q69zbMtn 0-1-8 H 1-3-0 1-8-12 0-1-8 15-3 II 1543 = 15x3 II 346 FP = 12-2-12 23-11-12 10-6-0 Plate Offsets (X,Y): [1:Edge,0-1-8], [14:0-1-8,Edge] LOADING (psf) SPACING CSI DEFL in (loc) PLATES GRIP L/d TCLL Plates Increase 1.00 0.37 Vert(LL) -0.39 20 >726 360 MT20 244/190 BC WB TCDI 15.0 Lumber Increase 1.00 0.62 Vert(TL) -0.76 19-20 >373 240 MT20H 187/143 BCLL 0.0 Rep Stress Incr 0.71 YES Horz(TL) 0.11 15 n/a n/a BCDL 10.0 Code FBC2010/TPI2007 FT = 2%F, 11%E Weight: 125 lb LUMBER BRACING TOP CHORD 2x4 SYP M 31(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. TOP CHORD BOT CHORD 2x4 SYP M 31(flat) BOT CHORD 2x4 SPp No.3(flat) REACTIONS (lb/size) 27=1024/0-3-8 (min. 0-1-8), 15=1024/0-3-8 (min. 0-1-8) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 27-28=-1017/0, 1-28=-1016/0, 15-29=-1017/0, 14-29=-1016/0, 1-2=-1074/0, 2-3=-2739/0, 3-4=-3986/0, 4-5=-3986/0, 5-6=-4721/0, 6-7=-5006/0, 7-8=-5006/0, 8-9=-4726/0, 9-10=-3983/0, TOP CHORD 10-11=-3983/0, 11-12=-3983/0, 12-13=-2740/0, 13-14=-1074/0 25-26=0/2018, 24-25=0/3425, 23-24=0/3425, 22-23=0/4442, 21-22=0/5006, 20-21=0/5006, BOT CHORD 19-20=0/4957, 18-19=0/4448, 17-18=0/3424, 16-17=0/2018 14-16=0/1388, 1-26=0/1388, 13-16=-1314/0, 2-26=-1313/0, 13-17=0/1003, 2-25=0/1003, 12-17=-952/0, 3-25=-954/0, 12-18=0/759, 3-23=0/762, 9-18=-633/0, 5-23=-620/0, 9-19=0/386, WEBS 5-22=0/499, 8-19=-373/0, 6-22=-599/0, 8-20=-231/410 NOTES (8-10) 1) Unbalanced floor live loads have been considered for this design. This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 All plates are MT20 plates unless otherwise indicated. All plates are 3x3 MT20 unless otherwise indicated.
 All bearings are assumed to be SYP No.2 crushing capacity of 565 psi. 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to FLORIDA SIONAL walls at their outer ends or restrained by other means.

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 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

TOMMY BULLOCK RES Truss Type Job Truss 15328167 F01G FLOOR 384283 Job Reference (optional) 7 330 s Dec 20 2011 MiTek Industries, Inc., Tue Mar 13 11:06:39 2012, Page 1 Builders FirstSource, Lake City, FL 32055 ID:plA1b?WDKrd9HPiAWzEIAmzAHWn-wPkxJMorz3o5O5?9qb?SpPWbMS8Jt8OXcQK2jUzbMtk HI 1-3-0 0-5-12 1543 = 5.6 11 23-11-12 Plate Offsets (X,Y): [1:0-1-8,0-0-8], [14:0-3-0,Edge], [14:0-1-8,0-0-8], [28:Edge,0-1-8] DEFL in L/d PLATES SPACING (loc) LOADING (psf) 1-4-0 244/190 1.00 TC BC 0.26 Vert(LL) -0.13 19 -0.26 18-19 >999 360 MT20 TCLL Plates Increase 240 >928 0.45 Vert(TL) TCDL 15.0 Lumber Increase 1.00 WB 0.70 Horz(TL) 0.03 15 n/a n/a BCLL FT = 2%F, 11%E Code FBC2010/TPI2007 Weight: 161 lb BCDL 10.0 (Matrix) Afins, exc Acept:

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No 345 BRACING LUMBER Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing; 26-27,25-26,23-25. TOP CHORD 2x4 SYP M 31(flat) TOP CHORD BOT CHORD BOT CHORD 2x4 SYP M 31(flat) 2x4 SPp No.3(flat) REACTIONS (lb/size) 28=-790/0-3-6 (min. 0-1-8), 15=919/0-3-6 (min. 0-1-8), 26=2313/0-3-8 (min. 0-1-8) Max Uplift28=-892(LC 4) Max Grav 15=920(LC 4), 26=2313(LC 1) FORCES (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 1-28=0/898, 14-15=-913/0, 1-2=0/1107, 2-3=0/3263, 3-4=0/2716, 4-5=0/553, 5-6=0/553 6-7=-1189/0, 7-8=-2496/0, 8-9=-3259/0, 9-10=-3570/0, 10-11=-3570/0, 11-12=-3570/0, 12-13=-2511/0, 13-14=-1005/0 26-27=-2117/0, 25-26=-3263/0, 24-25=-1564/0, 23-24=-1564/0, 22-23=0/430, 21-22=0/1949, 20-21=0/1949, 19-20=0/2981, 18-19=0/3499, 17-18=0/3111, 16-17=0/1871 3-26=-1207/0, 1-27=-1430/0, 2-27=0/1370, 2-26=-1619/0, 14-16=0/1297, 13-16=-1176/0, BOT CHORD WEBS 13-17=0/868, 12-17=-815/0, 12-18=0/610, 10-18=-432/0, 9-19=-327/0, 8-19=0/378, 8-20=-661/0, 7-20=0/727, 7-22=-1011/0, 6-22=0/1030, 6-23=-1316/0, 4-23=0/1371, 4-25=-1563/0, 3-25=0/1173 NOTES (8-10) Unbalanced floor live loads have been considered for this design.
 This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads 3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 892 lb uplift at joint 28. SIONAL 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means 7) CAUTION, Do not erect truss backwards. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 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) Floor: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 15-28=-13, 1-14=-73 Concentrated Loads (lb) Vert: 10=-385

Job Truss Truss Type TOMMY BULLOCK RES. Qty 15328168 384283 FLOOR Job Reference (optional) 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:40 2012 Page 1 Builders FirstSource Lake City, FL 32055 ID:plA1b?WDKrd9HPiAWzEtAmzAHWn-OcIJWioTkNwy0FaLOIWhLd2mWsQRcbegr43bFwzbMtj 0-1-8 H 1-3-0 1-5-8 0-1-8 15x3 II 1-6-0 1-6-0 6-6-0 2-6-0 10-6-0 11-11-8 23-8-8 2-6-0 2-6-0 Plate Offsets (X,Y): [1:Edge,0-1-8], [14:0-1-8,Edge LOADING (psf) SPACING 1-4-0 in -0.37 DEFL PLATES GRIP TC TCLL Plates Increase 1.00 0.30 Vert(LL) 20 >756 360 MT20 244/190 Lumber Increase Rep Stress Incr BC WB 0.58 TCDI 150 1.00 Vert(TL) -0.73 19-20 >388 240 MT20H 187/143 BCLL 0.0 YES 0.11 Horz(TL) 15 n/a n/a BCDL 10.0 Code FBC2010/TPI2007 (Matrix) Weight: 124 lb FT = 2%F, 11%E Mo 3486 LUMBER BRACING TOP CHORD 2x4 SYP M 31(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SYP M 31(flat) BOT CHORD 2x4 SPp No.3(flat) REACTIONS (lb/size) 27=1012/Mechanical, 15=1012/Mechanical FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 27-28=-1005/0, 1-28=-1004/0, 15-29=-1005/0, 14-29=-1004/0, 1-2=-1060/0, 2-3=-2702/0, 3-4=-3923/0, 4-5=-3923/0, 5-6=-4634/0, 6-7=-4897/0, 7-8=-4897/0, 8-9=-4638/0, 9-10=-3921/0, 10-11=-3921/0, 11-12=-3921/0, 12-13=-2702/0, 13-14=-1060/0 BOT CHORD 25-26=0/1993, 24-25=0/3375, 23-24=0/3375, 22-23=0/4369, 21-22=0/4897, 20-21=0/4897, 19-20=0/4859, 18-19=0/4373, 17-18=0/3375, 16-17=0/1993 14-16=0/1371, 1-26=0/1371, 13-16=-1297/0, 2-26=-1296/0, 13-17=0/987, 2-25=0/986, 12-17=-935/0, 3-25=-937/0, 12-18=0/742, 3-23=0/744, 9-18=-615/0, 5-23=-606/0, 9-19=0/371, WEBS 5-22=0/475, 8-19=-356/0, 6-22=-556/0, 8-20=-233/378 NOTES (8-11) 1) Unbalanced floor live loads have been considered for this design. 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads
3) All plates are MT20 plates unless otherwise indicated. All plates are 3x3 MT20 unless otherwise indicated.
 All bearings are assumed to be SYP No.2 crushing capacity of 565 psi. FLORIDA 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 11) Use Simpson THA422 to attach Truss to Carrying member LOAD CASE(S) Standard

TOMMY BULLOCK RES Job Truss Type Truss 15328169 FLOOR 384283 F02G Job Reference (optional) 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:42 2012 Page 1 Builders FirstSource Lake City, FL 32055 ID:pIA1b?WDKrd9HPiAWzEtAmzAHWn-K_Q4xQqjG_AgFYkkVjZ9Q286cf924VAztQYiJozbMth 0-1-8 0-1-8 -1-8 = 1-40 H 1-3-0 0-5-12 1542 = 546 11 21 15x3 19-10-4 [1:0-1-8,0-0-8], [14:0-3-0,Edge], [14:0-1-8,0-0-8], [28:Edge,0-1-8] Plate Offsets (X,Y): in -0.13 PLATES SPACING DEFL (loc) GRIP LOADING (osf) 1-4-0 244/190 40.0 Plates Increase 1 00 TC BC 0.26 Vert(LL) 19 >999 360 MT20 TCLL -0.25 18-19 >932 240 0.45 Vert(TL) 15.0 1.00 TCDL Lumber Increase Rep Stress Incr 0.0 BCLL NO WB 0.69 Horz(TL) 0.03 15 n/a n/a Weight: 161 lb FT = 2%F, 11%E Code FBC2010/TPI2007 (Matrix) BCDL 10.0 Ap 34s BRACING LUMBER Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals TOP CHORD 2x4 SYP M 31(flat) BOT CHORD 2x4 SYP M 31(flat) TOP CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except 6-0-0 oc bracing: 26-27,25-26,23-25. 2x4 SPp No.3(flat) REACTIONS (lb/size) 28=-787(0-3-6 (min. 0-1-8), 15=916/Mechanical, 26=2307/0-3-8 (min. 0-1-8) Max Uplift 28=-889(LC 4) Max Grav 15=917(LC 4), 26=2307(LC 1) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 1-28=0/895, 14-15=-909/0, 1-2=0/1104, 2-3=0/3252, 3-4=0/2707, 4-5=0/550, 5-6=0/550, 6-7=-1187/0, 7-9=-2488/0, 8-9=-3246/0, 9-10=-3552/0, 10-11=-3552/0, 11-12=-3552/0, TOP CHORD 12-13=-2499/0, 13-14=-1001/0 26-27=2110(), 25-26-3252(), 24-25=-1558(), 23-24=-1558(), 22-23=0)/431, 21-22=0/1945, 20-21=0/1945, 19-20=0/2971, 18-19=0/3483, 17-18=0/3096, 16-17=0/1863 3-26=-1204(), 1-27=-1425(), 2-27=0/1366, 2-26=-1615(), 14-16=0/1292, 13-16=-1171/0, BOT CHORD WEBS 13-17-20/83, 12-17-810/0, 12-18-0/605, 10-18-427/0, 9-19-323/0, 8-19-0/374, 8-29-657/0, 7-20-0/723, 7-22--1007/0, 6-22-0/1026, 6-23--1313/0, 4-23-0/1367, 4-25--1559/0, 3-25-0/1170 (8-11) 1) Unbalanced floor live loads have been considered for this design. 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads 3) Bearings are assumed to be: Joint 28 SYP No. 2, Joint 26 SYP No. 2. 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 889 lb uplift at joint 28 SIONAL 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means 7) CAUTION, Do not erect truss backwards. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

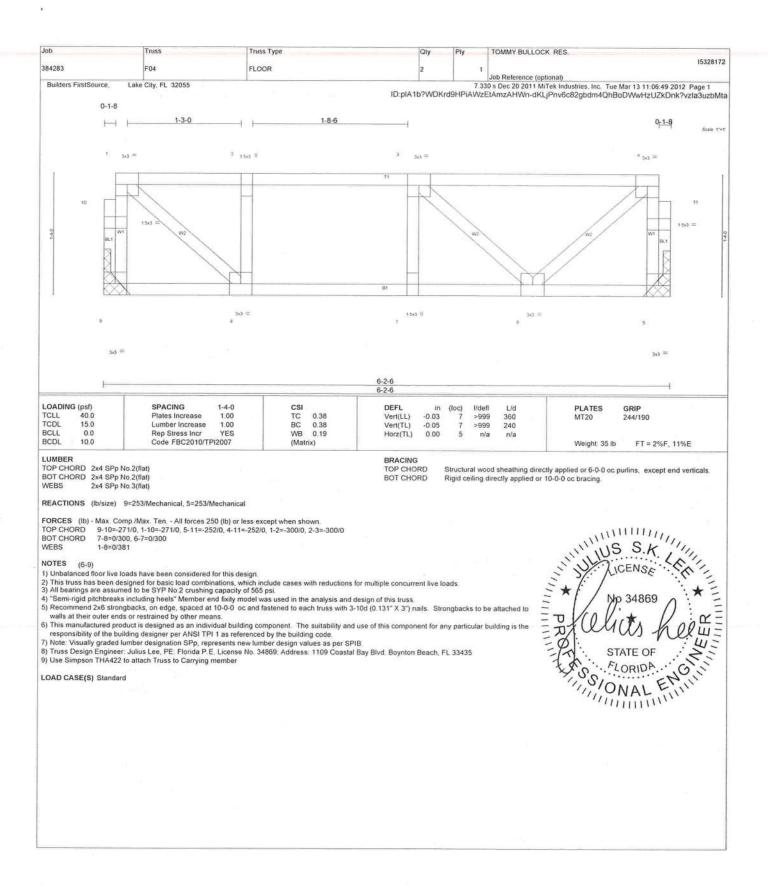
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 11) Use Simpson THA422 to attach Truss to Carrying member LOAD CASE(S) Standard 1) Floor. Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (off) Vert: 15-28=-13, 1-14=-73 Concentrated Loads (lb) Vert: 10=-380

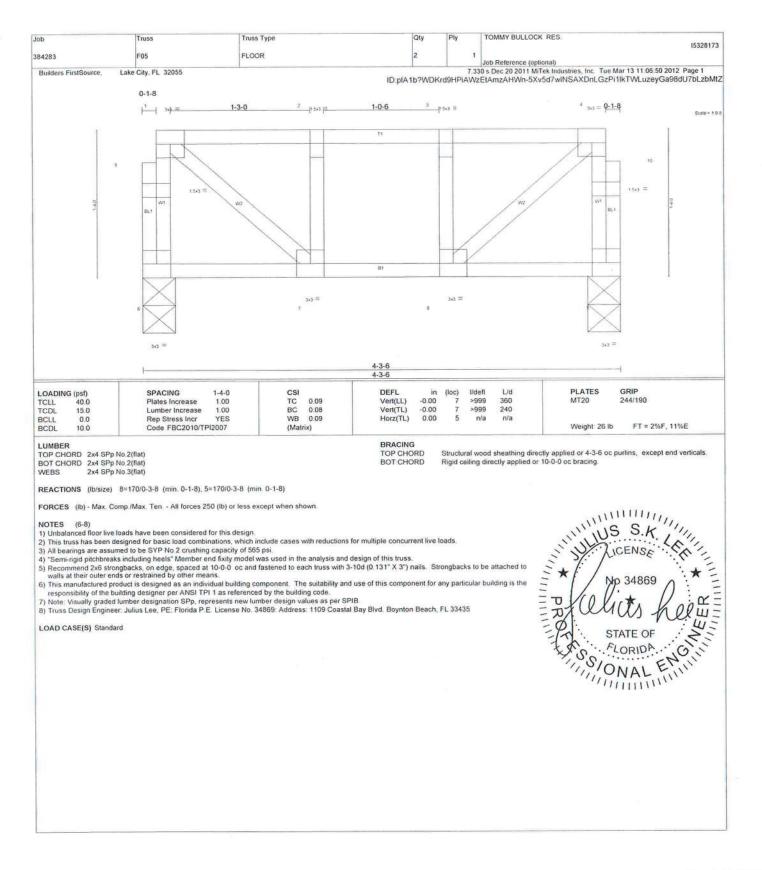
Job Truss Truss Type Qty TOMMY BULLOCK RES. 15328170 384283 FO3 FLOOR Job Reference (optional) 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:45 2012 Page 1 Builders FirstSource Lake City, FL 32055 ID:plA1b?WDKrd9HPiAWzEtAmzAHWn-kZ5CZQscYvYE60SJBs6s2gmYgtBmHzzQ_MnMw7zbMte 0 - 1 - 8H | 1-3-0 1-2-10 1-9-8 1-2-10 1523 = 150 20-11-12 2-9-0 1-2-10 LOADING (psf) SPACING DEFL (loc) L/d PLATES GRIP TCLL 40.0 Plates Increase 1.00 TC BC 0.53 Vert(LL) -0.02 26-27 -0.04 26-27 >999 360 MT20 244/190 Lumber Increase TCDL 15.0 1.00 0.44 Vert(TL) >999 240 BCLL 0.0 Rep Stress Incr YES WR 0.24 Horz(TL) 0.01 12 BCDL 10.0 Code FBC2010/TPI2007 (Matrix) Weight: 114 lb FT = 2%F, 11%E LUMBER BRACING TOP CHORD 2x4 SPp No.2(flat) TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD 2x4 SPp No.2(flat) Rigid ceiling directly applied or 10-0-0 oc bracing, Except: TO DICENS WEBS 2x4 SPp No.3(flat) 6-0-0 oc bracing: 22-24,21-22,17-18,16-17 REACTIONS All bearings 0-3-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) except 28=411(LC 14), 12=411(LC 13), 22=972(LC 13), 17=972(LC 14) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 28-29=-402/0, 1-29=-402/0, 12-30=-402/0, 11-30=-402/0, 1-2=-323/0, 2-3=-576/0, 3-4=-270/14, 4-5=-277/0, 5-6=-571/0, 6-7=-277/0, 7-8=-270/14, 8-9=-270/14, 9-10=-576/0, 10-11=-323/0 26-27=0/576, 25-26=0/576, 24-25=0/576, 23-24=-286/0, 22-23=-286/0, 21-22=-TOP CHORD BOT CHORD 20-21=0/571, 19-20=0/571, 18-19=0/571, 17-18=-286/0, 16-17=-286/0, 15-16=0/576, 14-15=0/576, 13-14=0/576 WEBS 4-22-924/0, 7-17-924/0, 1-27-0/410, 4-24-0/477, 2-27-344/0, 3-24-495/0, 7-18-0/465, 4-21-0/465, 6-18-439/0, 5-21-439/0, 11-13-0/410, 7-16-0/477, 10-13-344/0, 9-16-495/0 1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x3 MT20 unless otherwise indicated. D 4) Bearings are assumed to be: Joint 28 SYP No.2 , Joint 12 SYP No.2 0 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to FLORIDA walls at their outer ends or restrained by other means. SIONAL 7) CAUTION, Do not erect truss backwards. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 9) Note: Visually graded lumber designation SPp, représents new lumber design values as per SPIB.

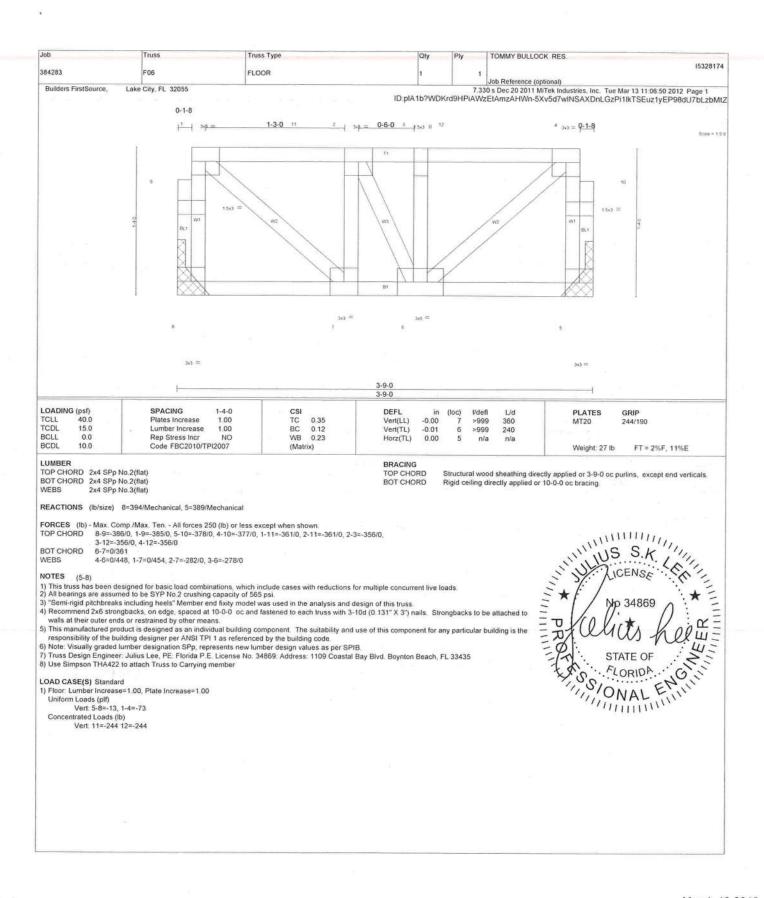
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435 LOAD CASE(S) Standard

TOMMY BULLOCK RES Job Truss Truss Type Oty Ply 15328171 F03G FLOOR 384283 Job Reference (optional) 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:48 2012 Page 1 Lake City, FL 32055 Builders FirstSource ID_plA1b?WDKrd9HPiAWzEtAmzAHWn-98nLCRuUrqwpzTBus_fZgJO684HXUGPshJ?0XSzbMtb 0-1-8 1-9-8 1-2-10 H 1-3-0 1-2-10 1545 I 6-10-2 6-10-2 PLATES DEFL LOADING (psf) SPACING 2-0-0 TC 0.32 Vert(LL) -0.01 20 >999 360 MT20 244/190 Plates Increase TCLL 240 TCDL 15.0 Lumber Increase 1.00 BC 0.12 Vert(TL) -0.03 20 >999 Rep Stress Incr WB 0.45 Horz(TL) 0.00 17 n/a BCLL 0.0 Weight: 114 lb FT = 2%F, 11%E Code FBC2010/TPI2007 BCDL 10.0 (Matrix) BRACING LUMBER No 348F TOP CHORD 2x4 SYP M 31(flat) BOT CHORD 2x4 SYP M 31(flat) TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 2x4 SPp No.3(flat) 10-0-0 oc bracing: 20-21, 19-20, 18-19, 12-13. REACTIONS Max Uplift All uplift 100 lb or less at joint(s) 28, 15 except 25=-133(LC 4) (lb) -Max Grav. All reactions 250 lb or less at joint(s) 28, 12, 27, 24, 25, 13, 16, 15 except 22=1363(LC 9), 17=1363(LC 10), 26=331(LC 9), 14=331(LC 10) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 3-4=0/375, 4-5=-277/0, 5-6=-807/0, 6-7=-277/0, 7-8=0/375, 8-9=0/375 23-24=-630/0, 22-23=-630/0, 21-22=-630/0, 20-21=0/807, 19-20=0/807, 18-19=0/807, BOT CHORD WEBS NOTES (8-10) Unbalanced floor live loads have been considered for this design.
 This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. 3) All plates are 3x3 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 15 except (jt=lb) 25=133. 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 7) CAUTION, Do not erect truss backwards. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 9) Note: Visually graded lumber designation SP₂, represents new lumber design values as per SPIB.

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 Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf) Vert: 12-28=-20, 1-4=-110, 4-7=-230, 7-11=-110







TOMMY BULLOCK RES. Job Truss Truss Type Oty 15328175 384283 KWI GABLE Job Reference (optional) 7.330 s Dec 20 2011 MiTek Industries, Inc. Tue Mar 13 11:06:51 2012 Page 1 Lake City, FL 32055 Builders FirstSource ID:plA1b?WDKrd9HPiAWzEtAmzAHWn-ZjTUqTxN8IJOqxwSX6DGIx0iXHKwhjIINHEh8nzbMtY 0-1-8 1-4-0 1-4-0 DEFL LOADING (psf) TCLL 40.0 SPACING 1-4-0 CSI 1.00 TC BC 0.06 Vert(LL) Vert(TL) n/a n/a 999 MT20 244/190 Plates Increase 999 TCDI 15 0 Lumber Increase 1.00 0.01 n/a n/a Rep Stress Incr YES Code FBC2010/TPI2007 WB 0 (Matrix) BCLL 0.03 Horz(TL) -0.00 22 n/a nla Weight: 109 lb FT = 2%F, 11%E BCDL 10.0 BRACING LUMBER Mo 34P Structural wood sheathing directly applied or 10-0-0 oc purlins, except end TOP CHORD 2x4 SPp No.2(flat) BOT CHORD 2x4 SPp No.2(flat) TOP CHORD verticals. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing; 39-40,21-22. 2x4 SPp No.3(flat) BOT CHORD **OTHERS** 2x4 SPp No.3(flat) REACTIONS All bearings 23-11-12 (lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 30, 22, 23, 24, 25, 26, 27, 28, 29, 39, 38, 37, 36, 34, 33, 32, 31 FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown NOTES (9-11) 1) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads All plates are 1.5x3 MT20 unless otherwise indicated.
 Gable requires continuous bottom chord bearing.
 Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 5) Gable studs spaced at 1-4-0 oc.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

B) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 11) 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

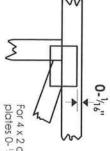
Symbols

PLATE LOCATION AND ORIENTATION



and fully embed teeth Dimensions are in ft-in-sixteenths.

Apply plates to both sides of truss offsets are indicated. Center plate on joint unless x, y



plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

connector plates required direction of slots in This symbol indicates the

Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

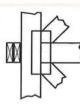
width measured perpendicular the length parallel to slots. to slots. Second dimension is The first dimension is the plate

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING



number where bearings occur reaction section indicates joint Indicates location where bearings (supports) occur. Icons vary but

ANSI/TPII: Industry Standards:

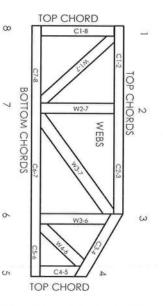
National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

Connected Wood Trusses Installing & Bracing of Metal Plate Building Component Safety Information, Guide to Good Practice for Handling, Design Standard for Bracing.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



THE LEFT. JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A NER-487, NER-561 95110, 84-32, 96-67, ER-3907, 9432A

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Boynton, FL 33435 Julius Lee l 109 Coastal Bay Blvd.



General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11
- Truss bracing must be designed by an engineer, For wide truss spacing, individual lateral braces themselves bracing should be considered. may require bracing, or alternative T, I, or Eliminator
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear fightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

O.

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

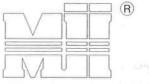
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft, spacing or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

Brace Size

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Page 1 of 1



MiTek Industries, Inc.

W

Web

Nails:

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

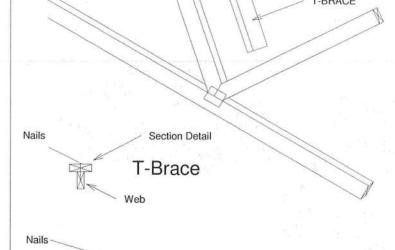
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern						
T-Brace size	Nail Size	Nail Spacing				
2x4 or 2x6 or 2x8	10d	6" o.c.				

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

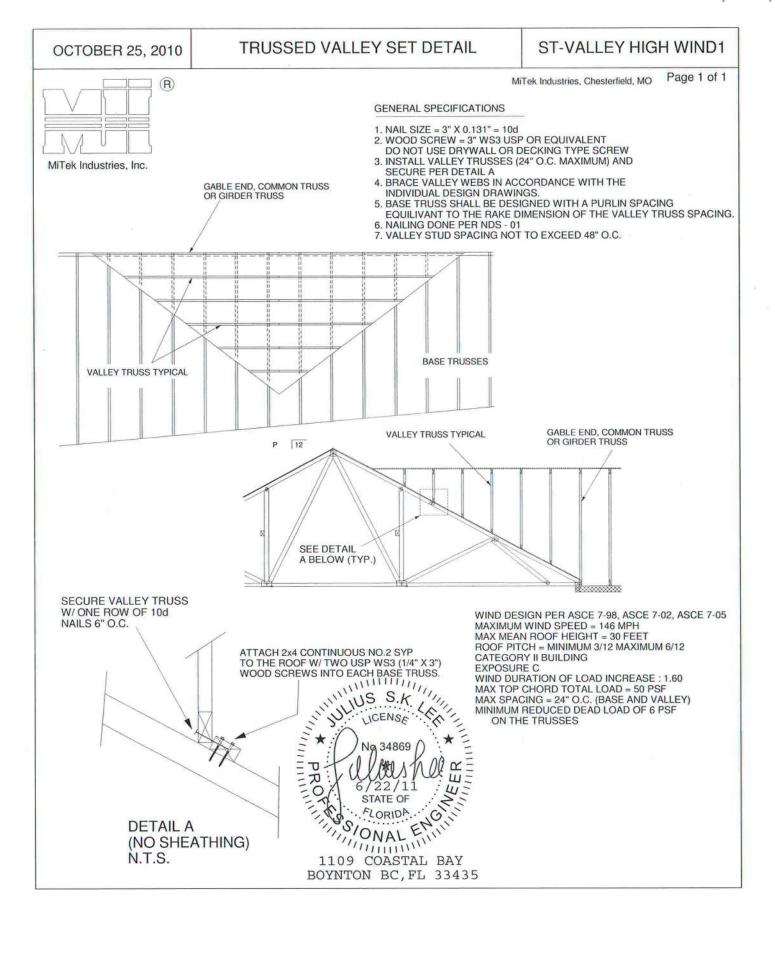
	for One	-Ply Truss
	Specified Rows of La	Continuous iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Nails			e Size Ply Truss
		Specified Rows of La	Continuous teral Bracing
SPACING	Web Size	1	2
	2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
	2x6	2x6 T-Brace	2x6 I-Brace
	2x8	2x8 T-Brace	2x8 I-Brace



I-Brace

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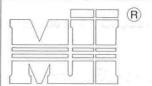


LATERAL TOE-NAIL DETAIL

ST-TOENAIL SP

MiTek Industries, Chesterfield, MO

Page 1 of 1



MiTek Industries, Inc.

- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

	DIAM.	SYP	DF	HF	SPF	SPF-S
G	.131	88.0	80.6	69.9	68.4	59.7
3.5" LONG	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
Š	.128	74.2	67.9	58.9	57.6	50.3
LONG	.131	75.9	69.5	60.3	59.0	51.1
.25	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

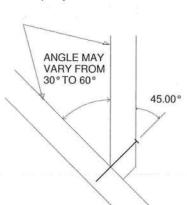
ANGLE MAY

VARY FROM

30° TO 60°

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

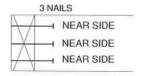
45.00°

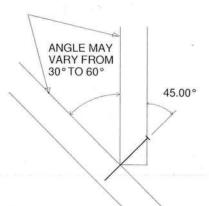


THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

> VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> > SIDE VIEW







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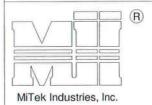
FEBRUARY 8, 2008

LATERAL BRACING RECOMMENDATIONS

ST-STRGBCK

MiTek Industries, Chesterfield, MO

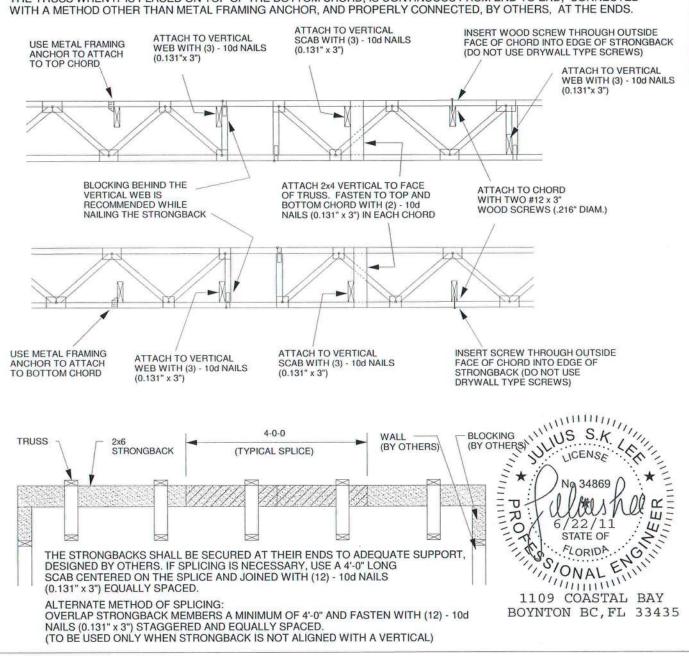
Page 1 of 1



TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



JANUARY 20, 2011

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

В

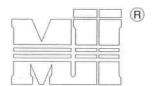
ST-PIGGY

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C.

DURATION OF LOAD INCREASE: 1.60

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MiTek Industries, Inc.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0.131" X 3.5" TOE NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.
D - 2 X ___ X 4"-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH SCAB MAY 96 OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

1. WIND SPEED OF 90 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 91 MPH TO 140 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

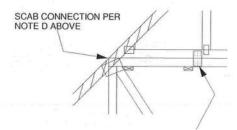
E - FOR WIND SPEEDS BETWEEN 101 AND 140 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72° O.C. W (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED. E

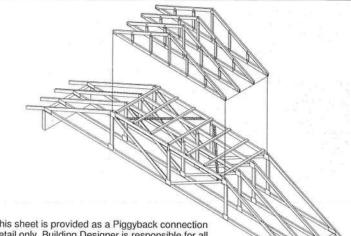
CATEGORY II BUILDING EXPOSURE B or C ASCE 7-02, ASCE 7-05

WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

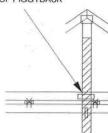


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

ATTACH 2 x x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



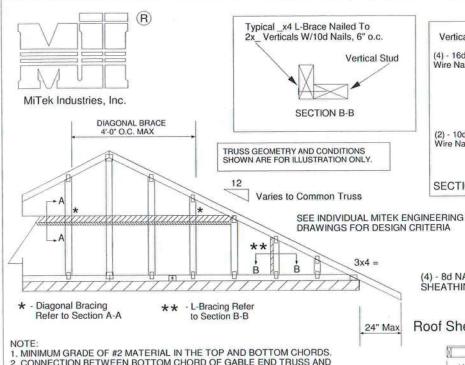
D

BOYNTON BC, FL 33435

JANUARY 1, 2009

Standard Gable End Detail

ST-GE120-001



Vertical Stud (4) - 16d Common DIAGONAL Wire Nails 16d Common Wire Nails Spaced 6" o.c. (2) - 10d Common 2x6 Stud or 2x4 No.2 of better Wire Nails into 2x6 Typical Horizontal Brace Nailed To 2x Verticals w/(4)-10d Common Nails SECTION A-A 2x4 Stud

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PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

End Wall

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT. 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L'240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

₄ Max. ▶	(2) - 10d NAILS
	Trusses @ 24" o.c.
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d COMMON WIRE NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d COMMONS.

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
Species and Grade		Maximum Stud Length					
2x4 SPF Std/Stud	12" O.C.	4-3-2	4-7-6	6-6-5	8-6-3	12-9-6	
2x4 SPF Std/Stud	16" O.C.	3-10-7	4-0-0	5-7-13	7-8-14	11-7-5	
2x4 SPF Std/Stud	24" O.C.	3-2-0	3-3-2	4-7-6	6-4-0	9-6-0	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 120 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

No 34869

No 34869

STATE OF

FLORIDA

ONAL

1109 COASTAL

HORIZONTAL BRACE

(SEE SECTION A-A)

1109 COASTAL BAY BOYNTON BC, FL 33435

6/22/11



Standard Gable End Detail

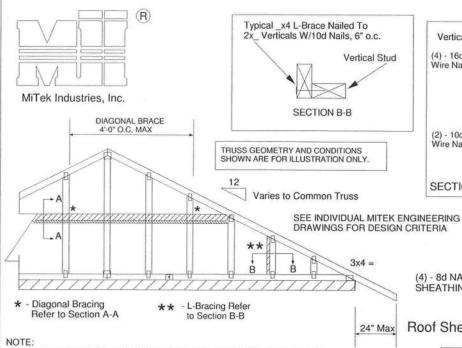
ST-GE140-001

DIAGONAL

(2) - 10d NAILS

Trusses @ 24" o.c.

16d Common



Wire Nails Spaced 6" o.c. (2) - 10d Common Wire Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Common Nails SECTION A-A 2x4 Stud PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH

(5) - 10d COMMON WIRE NAILS.

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(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

(2) - 10d

Vertical Stud (4) - 16d Common Wire Nails

Roof Sheathing

1'-3"

Max.

MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, GRADES: 1x4 SRB
- OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
 GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Di	aq.	Bra	ace	1
			ints	
	nee			7/6

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d COMMON WIRE NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d COMMONS.

End Wall

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4	
2x4 SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11	
2x4 SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS

HORIZONTAL BRACE (SEE SECTION A-A)

11111111111 1109 COASTAL BAY BOYNTON BC, FL 33435

6/22/11