

PREPARED 10/07/09, 13:58:31
Harnett County

INSPECTION TICKET
INSPECTOR: IVR

PAGE 1
DATE 10/08/09

ADDRESS . . : 105 BLUE OAK DR
CONTRACTOR : CEBCO CONSTRUCTION INC
OWNER . . . : KENNETH CUMMINGS, LLC #203
PARCEL . . . : 01-0536-06- -0028- -43-
APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)
SUBDIV: WOODSHIRE PH 5
PHONE : (910) 893-3331
PHONE :

DIRECTIONS : WOODSHIRE SUB DIV #203
HWY 27W TO NURSERY RD, LEMUEL BLACK RD,
SUB DIV ON LEFT.
T/S: 01/28/2008 11:33 AM VBROWN -----

STRUCTURE: 000 000 53X52SLAB 3BDR/2.5BA W/GAR & DECK
FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 3.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED	INSP	DESCRIPTION
	COMPLETED	RESULT	RESULTS/COMMENTS
B101 01	10/08/09 <u>10/8/09</u>	TI <u>APD</u>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734

COMMENTS AND NOTES

ADDRESS . . : 105 BLUE OAK DR
 CONTRACTOR : CEBCO CONSTRUCTION INC
 OWNER . . . : KENNETH CUMMINGS, LLC #203
 PARCEL . . . : 01-0536-06- -0028- -43-
 APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)
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FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00
 SEPTIC - EXISTING? : NEW

PROPOSED USE : SFD
 WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/08/09 10/08/09	DT AP	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734 1. Footing missing lug. T/S: 10/08/2009 10:39 AM DETAYLOR -----
B103 01	10/14/09 <u>10/14/09</u>	TI <u>AP DL</u>	R*BLDG FOUND & TEMP SVC POLE VRU #: 001836008

----- COMMENTS AND NOTES -----



ADDRESS . . : 105 BLUE OAK DR SUBDIV: WOODSHIRE PH 5
 CONTRACTOR : CEBCO CONSTRUCTION INC PHONE : (910) 893-3331
 OWNER . . : KENNETH CUMMINGS, LLC #203 PHONE :
 PARCEL . . : 01-0536-06- -0028- -43-
 APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : WOODSHIRE SUB DIV #203
 HWY 27W TO NURSERY RD, LEMUEL BLACK RD,
 SUB DIV ON LEFT.
 T/S: 01/28/2008 11:33 AM VBROWN ----

STRUCTURE: 000 000 53X52SLAB 3BDR/2.5BA W/GAR & DECK

FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : NEW WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/08/09 10/08/09	DT AP	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734 1. Footing missing lug. T/S: 10/08/2009 10:39 AM DETAYLOR -----
B103 01	10/14/09 10/14/09	DT AP	R*BLDG FOUND & TEMP SVC POLE VRU #: 001836008
B105 01	10/16/09 <u>10/16/09</u>	TI <u>AP DT</u>	R*OPEN FLOOR VRU #: 001837409

----- COMMENTS AND NOTES -----

Harnett County

INSPECTOR: IVR

DATE 10/30/09

ADDRESS : 105 BLUE OAK DR
 CONTRACTOR : CEBCO CONSTRUCTION INC
 OWNER : KENNETH CUMMINGS, LLC #203
 PARCEL : 01-0536-06- -0028- -43-
 APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : WOODSHIRE SUB DIV #203
 HWY 27W TO NURSERY RD, LEMUEL BLACK RD,
 SUB DIV ON LEFT.
 T/S: 01/28/2008 11:33 AM VBROWN ----

SUBDIV: WOODSHIRE PH 5
 PHONE : (910) 893-3331
 PHONE :

STRUCTURE: 000 000 53X52SLAB 3BDR/2.5BA W/GAR & DECK

FLOOD ZONE : FLOOD ZONE X

BEDROOMS : 3.00

PROPOSED USE : SFD

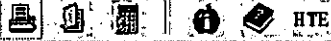
SEPTIC - EXISTING? : NEW

WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/08/09 10/08/09	DT AP	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734 1. Footing missing lug. T/S: 10/08/2009 10:39 AM DETAYLOR -----
B103 01	10/14/09 10/14/09	DT AP	R*BLDG FOUND & TEMP SVC POLE VRU #: 001836008
B105 01	10/16/09 10/16/09	DT AP	R*OPEN FLOOR VRU #: 001837409
R425 01	10/30/09 <i>10/30/09</i>	TI <i>DA DT</i>	FOUR TRADE ROUGH IN VRU #: 001844295

COMMENTS AND NOTES



10/30/2009 11:40:15 AM

Application number; type 08 50019300 CP NEW RESIDENTIAL (SFD)

Property address 105 BLUE OAK DR

- 1. Fire block around sloped tray in master.
- 2. H gdr, A gdr, and D trusses missing hurricane straps.
- 3. Need 10 psi on gas line.

Okay to side and insulate.

T/S: 10/30/2009 11:35 AM DETAYLOR -----



OK Exit Cancel Copy Insert Delete Time stamp User defaults

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J94366

K. Cummings / 203 Woodshire / Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E5486438 thru E5486439

My license renewal date for the state of North Carolina is December 31, 2009.

North Carolina COA: C-0844



October 23, 2009

Lassiter, Frank

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-2002 Chapter 2.
Engineering services provided by Truss Engineering Company.

Job J94388	Truss B1	Truss Type ROOF TRUSS	Qty 6	Ply 1	K. Cummings / 203 Woodshire / Hamett	E5486438
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Comtech, Inc., Fayetteville, NC 28309

7:200 s Sep 14 2009 MiTek Industries, Inc. Thu Oct 22 15:06:57 2009 Page 1

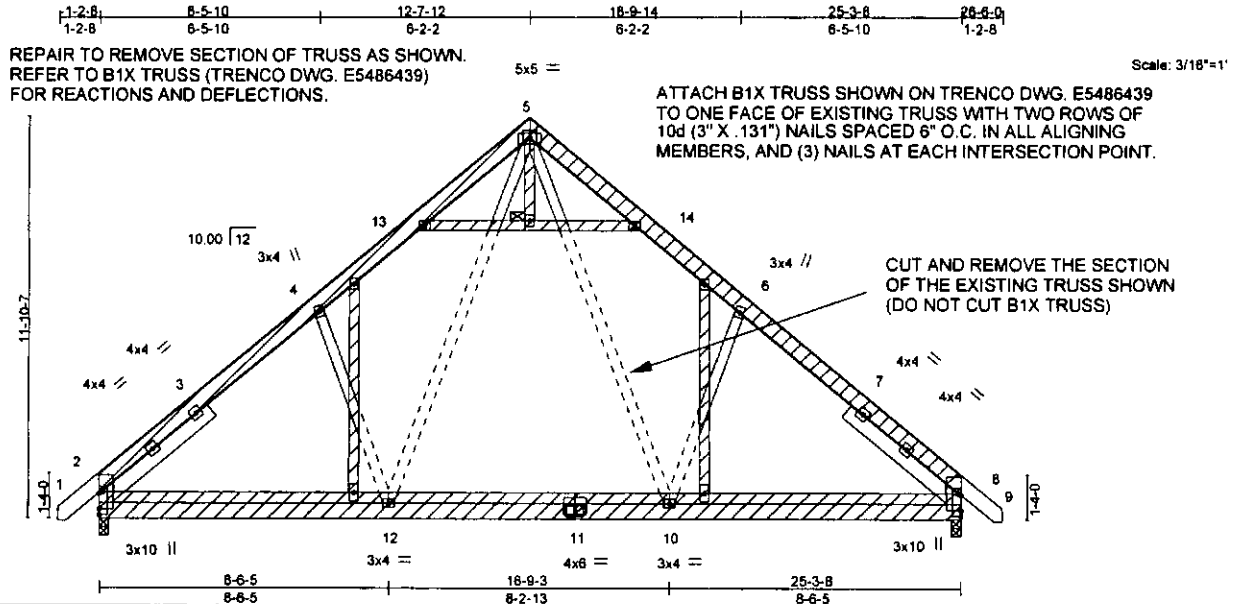


Plate Offsets (X,Y): [2:0-7-9,0-0-1], [8:0-7-9,0-0-1]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.32	Vert(LL) -0.09 10-12 >999 360		
BCLL 0.0	Lumber Increase 1.15	WB 0.63	Vert(TL) -0.13 10-12 >999 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 8 n/a n/a		
	Code IRC2003/TP12002				Weight: 217 lb

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 6 SYP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	
SLIDER Left 2 X 6 SYP No.1 4-3-12, Right 2 X 6 SYP No.1 4-3-12	

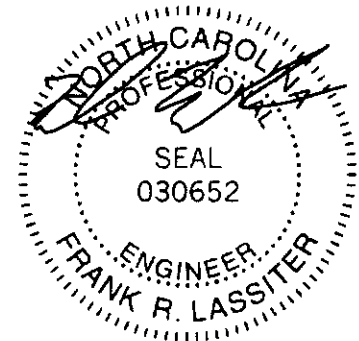
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1242/0-3-8 (min. 0-1-8), 8=1242/0-3-8 (min. 0-1-8)
 Max Horz 2=-395(LC 3)
 Max Uplift 2=-270(LC 5), 8=-270(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1452/236, 3-4=-1344/267, 4-13=-1283/387, 5-13=-1067/430, 5-14=-1067/430,
 6-14=-1283/387, 6-7=-1344/267, 7-8=-1451/236
 BOT CHORD 2-12=-208/975, 11-12=-64/716, 10-11=-64/716, 8-10=-60/975
 WEBS 5-10=-249/603, 6-10=-227/327, 5-12=-249/603, 4-12=-227/327

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 100mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Interior(1) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2 and 270 lb uplift at joint 8.
 - This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 23, 2009

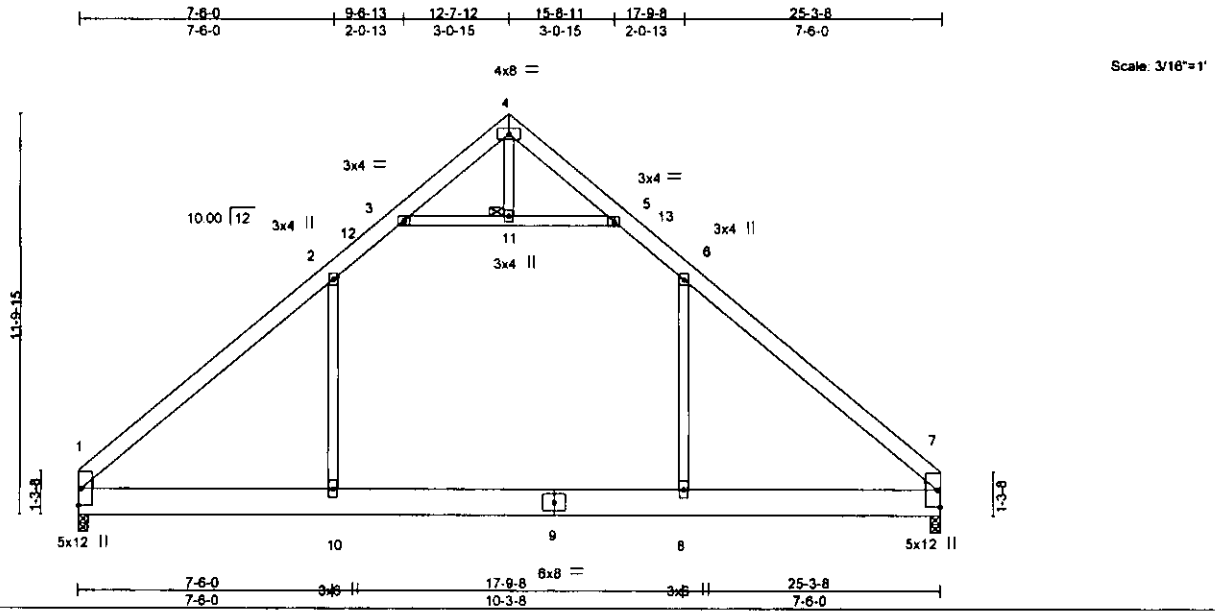
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10-08 BEFORE USE. Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSI-B9 and BCS1 Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Eden, NC 27632

Job J94368	Truss BX	Truss Type ROOF TRUSS	Qty 6	Ply 1	K. Cummings / 203 Woodshire / Harnett	E5486439
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Comtech, Inc., Fayetteville, NC 28309

7.200 s Sep 14 2009 MiTek Industries, Inc. Thu Oct 22 15:07:07 2009 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/def L/d	MT20	244/190
BCLL 10.0	Plates Increase 1.15	BC 0.36	Vert(LL) 0.14 8-10 >999 360		
BCLL 0.0	Lumber Increase 1.15	WB 0.25	Vert(TL) -0.28 8-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.02 7 n/a n/a		
	Code IRC2003/TPI2002			Weight: 211 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.1
 BOT CHORD 2 X 10 SYP No.1
 WEBS 2 X 4 SYP No.3
 WEDGE
 Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at J(s): 11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=1309/0-3-8 (min. 0-1-9), 7=1309/0-3-8 (min. 0-1-9)
 Max Horz 1=-388(LC 3)
 Max Uplift 1=-303(LC 5), 7=-303(LC 6)

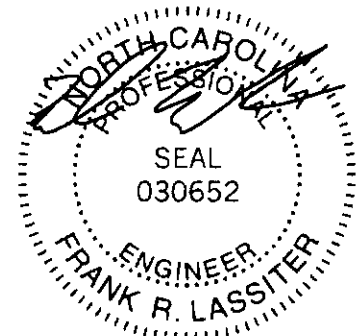
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1717/410, 2-12=-1034/359, 3-12=-973/363, 5-13=-973/363, 6-13=-1034/359, 6-7=-1717/409
 BOT CHORD 1-10=-147/1088, 9-10=-147/1088, 8-9=-147/1088, 7-8=-147/1088
 WEBS 3-11=-1319/577, 5-11=-1319/577, 2-10=-141/705, 6-8=-141/705

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 100mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Interior(1) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 1 and 303 lb uplift at joint 7.
- This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-10=-20, 8-10=-80(F=-60), 7-8=-20, 1-4=-60, 4-7=-60



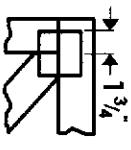
October 23, 2009

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE 901-7473 rev. 10-08 BEFORE USE.
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI Quality Criteria, D58-89 and ICSI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.

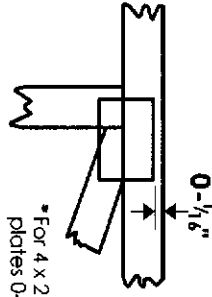
TRENCO
 ENGINEERING BY
 A MI TEK GROUP
 818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



* For 4 x 2 orientation, locate plates 0- $\frac{1}{4}$ " from outside edge of truss.



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

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

PLATE SIZE

4 X 4

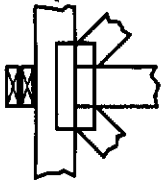
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

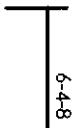


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

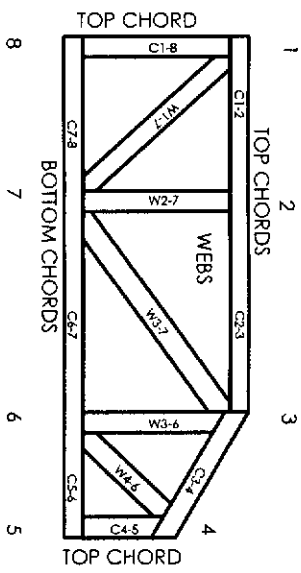
Industry Standards:

- ANSI/TPI: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

- ESR-1311, ESR-1352, ER-5243, 96048
- 9730, 95-43, 96-31, 9667A
- NER-487, NER-561
- 95110, 84-32, 96-67, ER-3907, 9432A

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Mitek Engineering Reference Sheet: MIL-7473 rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
- Never exceed the design loading shown and never stock materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear lightly 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 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.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 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.

Job J94366	Truss H1-GRD	Truss Type ROOF TRUSS	Qty 1	Ply 2	K. Cummings / 203 Woodshire / Hamlet	E5486806
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Comtech, Inc., Fayetteville, NC 28309 7,200 e Sep 14 2009 MITak Industries, Inc. Fri Oct 23 11:18:36 2009 Page 1

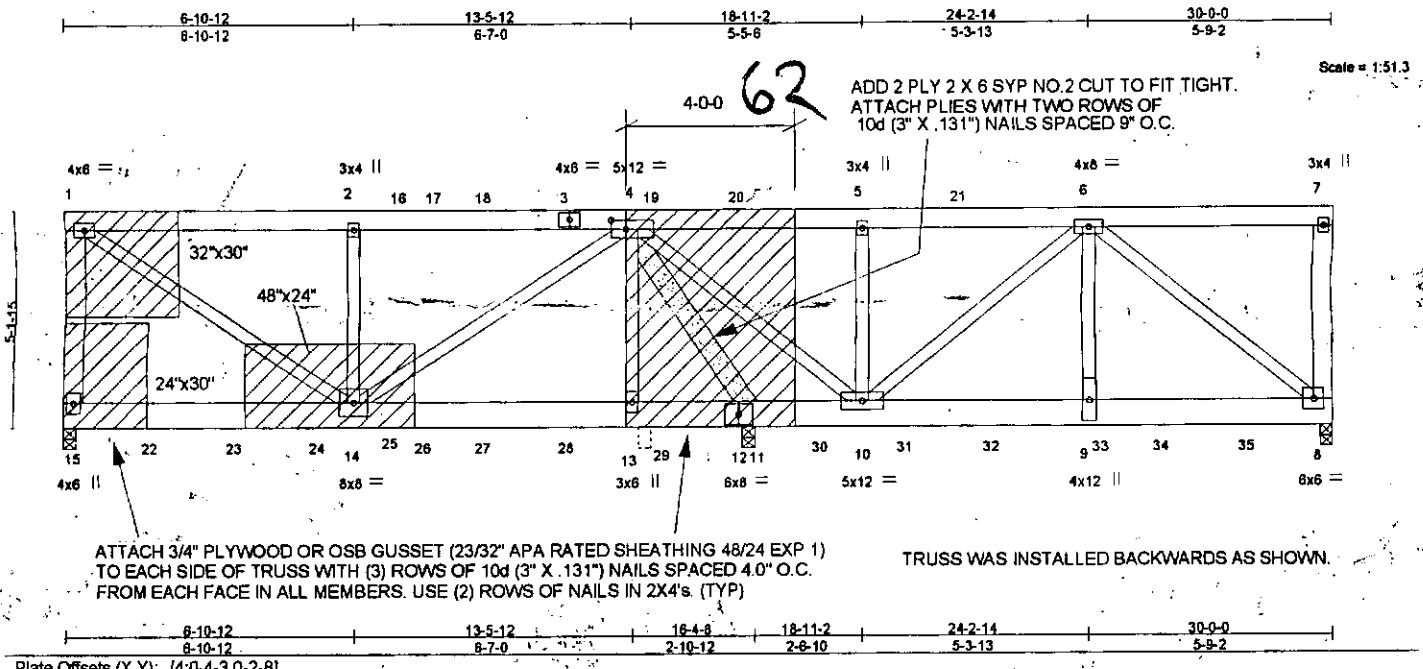
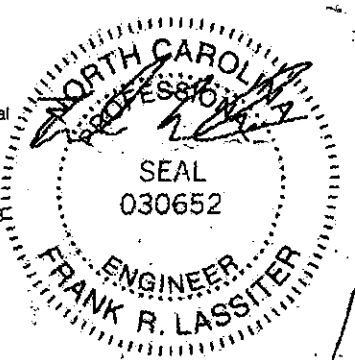


Plate Offsets (X, Y): (4,0-4,3,0-2,8)

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.15	TC 0.47	in (loc) l/def L/d	MT20	244/190
TCCL 10.0	Lumber Increase 1.15	BC 0.41	Vert(LL) -0.06 14-15 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.76	Vert(TL) -0.14 14-15 >999 240		
BCDL 10.0	Code IRC2003/TPI2002	(Matrix)	Horz(TL) 0.01 8 n/a n/a		
				Weight: 529 lb	

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No. 1	TOP CHORD Structural wood sheathing directly applied or 6.0-0 oc purlins, except end verticals (P)
BOT CHORD 2 X 8 SYP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, except 6-0-0 oc bracing: 10-11.
WEBS 2 X 4 SYP No.3 "Except"	
1-15,7-8: 2 X 6 SYP No.1, 1-14,4-14: 2 X 4 SYP No.2	
REACTIONS (lb/size) 15=5059/0-3-8 (min. 0-2-2), 8=2198/0-3-8 (min. 0-1-8), 11=7715/0-3-8 (min. 0-3-3)	
Max Horz 15=113(LC 2)	
Max Uplift 15=1542(LC 2), 8=670(LC 3), 11=2333(LC 3)	
FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-15=3485/1109, 1-2=5030/1537, 2-16=5030/1537, 16-17=5030/1537, 17-18=5030/1537, 3-18=5030/1537, 3-4=5030/1537	
BOT CHORD 15-22=190/324, 22-23=190/324, 23-24=190/324, 24-25=190/324, 14-25=190/324, 14-26=710/2125, 26-27=710/2125, 27-28=710/2125, 13-28=710/2125, 13-29=710/2120, 12-29=710/2120, 11-12=710/2120, 11-30=1163/425, 10-30=1163/425, 10-31=495/1470, 31-32=495/1470, 32-33=495/1470, 9-33=495/1470, 9-34=495/1470, 34-35=495/1470, 8-35=495/1470	
WEBS 1-14=1744/5729, 2-14=893/385, 4-14=1078/3542, 4-13=70/404, 4-10=499/1614, 5-10=376/194, 6-10=1867/573, 6-9=537/2055, 6-8=1703/516, 4-11=6182/1893	

- NOTES**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2 X 6 - 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.
 - 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.
 - Wind: ASCE 7-02; 100mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1542 lb uplift at joint 15, 670 lb uplift at joint 8 and 2333 lb uplift at joint 11.
 - This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Continued on page 2

WARNING - This design guarantees and READ NOTES ON THIS AND INCLUDED MITAK REFERENCE PARTS 7475 rev. 10-09 BEFORE USE.

Design valid for use only with MITAK connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI Quality Criteria, D38-87 and BCI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.

TRENCO
ENGINEERING BY
FRANK R. LASSITER
816 Soundside Road
Edenton, NC 27932

ADDRESS : 105 BLUE OAK DR SUBDIV: WOODSHIRE PH 5
 CONTRACTOR : CEBCO CONSTRUCTION INC PHONE : (910) 893-3331
 OWNER : KENNETH CUMMINGS, LLC #203 PHONE :
 PARCEL : 01-0536-06- -0028- -43-
 APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)

DIRECTIONS : WOODSHIRE SUB DIV #203
 HWY 27W TO NURSERY RD, LEMUEL BLACK RD,
 SUB DIV ON LEFT.
 T/S: 01/28/2008 11:33 AM VBROWN ----

STRUCTURE: 000 000 53X52SLAB 3BDR/2.5BA W/GAR & DECK
 FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : NEW WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/08/09 10/08/09	DT AP	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734 1. Footing missing lug. T/S: 10/08/2009 10:39 AM DETAYLOR -----
B103 01	10/14/09 10/14/09	DT AP	R*BLDG FOUND & TEMP SVC POLE VRU #: 001836008
B105 01	10/16/09 10/16/09	DT AP	R*OPEN FLOOR VRU #: 001837409
R425 01	10/30/09 10/30/09	DT DA	FOUR TRADE ROUGH IN VRU #: 001844295 1. Fire block around sloped tray in master. 2. H gdr, A gdr, and D trusses missing hurricane straps. 3. Need 10 psi on gas line. Okay to side and insulate. T/S: 10/30/2009 11:35 AM DETAYLOR -----
A814 01	11/04/09	TI	ADDRESS CONFIRMATION VRU #: 001844302
R425 02	11/04/09 <u>11/04/09</u>	TI <u>AP DT</u>	FOUR TRADE ROUGH IN VRU #: 001845524
I129 01	11/04/09 <u>11/04/09</u>	TI <u>AP DT</u>	R*INSULATION INSPECTION TIME: 17:00 VRU #: 001846096 T/S: 11/03/2009 02:33 PM NTART -----

COMMENTS AND NOTES

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J94366

K. Cummings / 203 Woodshire / Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E5497266 thru E5497266

My license renewal date for the state of North Carolina is December 31, 2009.

North Carolina COA: C-0844



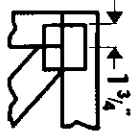
November 2, 2009

Lassiter, Frank

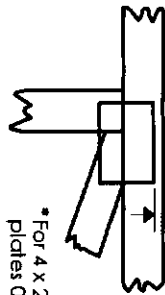
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Chapter 2. Engineering services provided by Truss Engineering Company.

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



*For 4 x 2 orientation, locate plates 0- $\frac{1}{8}$ " from outside edge of truss.



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

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

PLATE SIZE

4 X 4

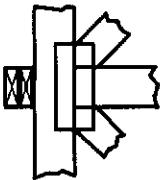
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



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

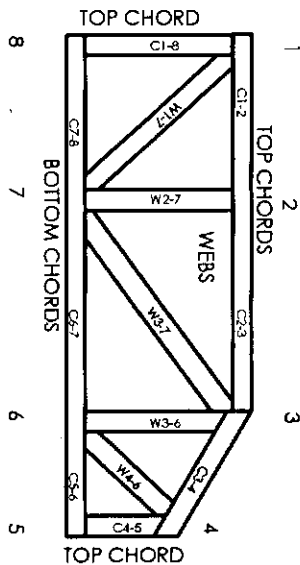
Industry Standards:

ANSI/FP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Wood of Metal Plate Connected Wood Trusses.

Numbering System



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



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

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 96048
9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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MITek Engineering Reference Sheet: ML-7473 rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/FP11.
8. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
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.
13. Top chords must be sheathed or purfins 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/FP11 Quality Criteria.

Job	Truss	Truss Type	City	Ply	K. Cummings / 203 Woodshire / Hamett	E5497266
J04366	A2	PIGGYBACK ATTIC	2	3	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

7:200 s Oct 5 2009 MITek Industries, Inc. Mon Nov 02 15:21:48 2009 Page 1

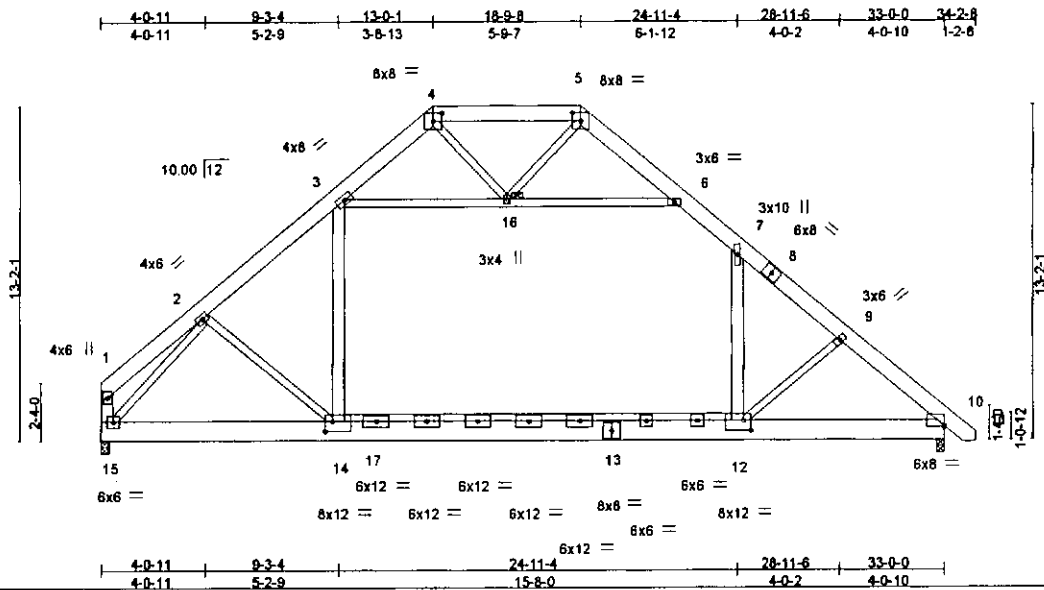


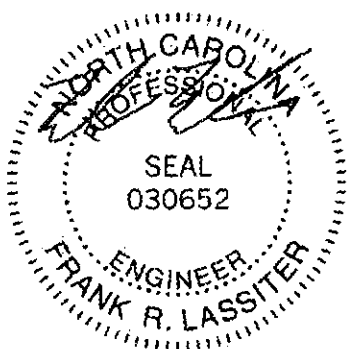
Plate Offsets (X, Y):	[4:0-4-0,0-3-15], [5:0-4-0,0-3-15], [10:0-0-2,0-0-11], [12:0-3-8,0-4-12], [14:0-3-8,0-4-12]				
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.77	Vert(LL) -0.24 12-14 >999 360		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.44	Vert(TL) -0.52 12-14 >748 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.04 10 n/a n/a		
	Code IRC2003/TPI2002		Attic -0.17 12-14 1100 360	Weight: 1146 lb	

LUMBER	BRACING
TOP CHORD 2 X 8 SYP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 10 SYP No.1 *Except* 12-14: 2 X 4 SYP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3 *Except* 3-14,7-12,1-15: 2 X 6 SYP No.1, 3-6: 2 X 4 SYP No.1	JOINTS 1 Brace at Jt(s): 16

REACTIONS (lb/size) 10=700/10-3-8 (min. 0-2-12), 15=5728/0-3-8 (min. 0-2-4)
 Max Horz 15=377(LC 3)
 Max Uplift 10=605(LC 3), 15=369(LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1049/231, 2-3=-7484/1038, 3-4=-631/134, 5-6=-416/105, 6-7=-5083/750, 7-8=-8190/1083, 8-9=-8336/1073,
 9-10=-8592/1082, 10-11=0/15, 4-5=-338/89, 1-15=-963/197
 BOT CHORD 14-15=-580/4482, 14-17=-502/5650, 13-17=-511/5716, 12-13=-508/5685, 10-12=-710/6165
 WEBS 3-14=-636/4291, 7-12=-644/4787, 3-16=-5226/823, 6-16=-5964/918, 2-14=-276/1765, 9-12=-662/282, 4-16=-378/259,
 5-16=-155/1023, 2-15=-651/781

- NOTES**
- 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 10 - 2 rows at 0-4-0 oc, 2 X 4 - 1 row at 0-4-0 oc.
 Webs connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02, 100mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; cantilever left and right exposed; end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s) 6-7, 3-16, 6-16; Wall dead load (5.0psf) on member(s) 3-14, 7-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 605 lb uplift at joint 10 and 369 lb uplift at joint 15.
 - This truss is designed in accordance with the 2003 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Continued on page 2

November 2, 2009

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED DESIGN REFERENCES. PAGE #17471 rev. 10-08 BEFORE ERECTION.
 Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D18-89 and BCI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MILLER GROUP
 818 Soundside Road
 Edenton, NC 27932

K. Cummings / 203 Woodshire / Hamlet

Job Reference (optional)
7.208 s Oct 5 2009 MiTek Industries, Inc. Mon Nov 02 15:21:47 2009 Page 2

Qty 2
Ply 3

Truss Type
PIGGYBACK ATTIC

Truss
A2

Job
J04368
Comtech, Inc., Fayetteville, NC 28309

NOTES

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2338 lb down and 523 lb up at 9-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-20, 13-14=-310(F=-190), 12-13=-310(F=-190), 10-12=-360(F=-340), 1-4=-60, 5-6=-60, 6-7=-80, 7-11=-60, 4-5=-60, 3-6=-20
- Drag: 3-14=-10, 7-12=-10
- Concentrated Loads (lb)
Vert: 17=-2338(F)

WARNING - Verify design parameters and READ NOTES ON FILE AND INCLUDED NOTE REFERENCE PAGE 001-1418. DO NOT REPAIRS USE.
 Design void for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANS/TP1 Quality Criteria, D38-89 and BCS/ King Company.
 Safety Information available from Truss Plate Institute, 261 N. Lee Street, Suite 312, Alexandria, VA 22314.

DESIGNED BY
TRENCO
 818 Soundside Road
 Eden, NC 27824

ADDRESS : 105 BLUE OAK DR SUBDIV: WOODSHIRE PH 5
 CONTRACTOR : CEBCO CONSTRUCTION INC PHONE : (910) 893-3331
 OWNER : KENNETH CUMMINGS, LLC #203 PHONE :
 PARCEL : 01-0536-06- -0028- -43-
 APPL NUMBER: 08-50019300 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : WOODSHIRE SUB DIV #203
 HWY 27W TO NURSERY RD, LEMUEL BLACK RD,
 SUB DIV ON LEFT.
 T/S: 01/28/2008 11:33 AM VBROWN ----

STRUCTURE: 000 000 53X52SLAB 3BDR/2.5BA W/GAR & DECK

FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : NEW WATER SUPPLY : UNKNOWN

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/08/09	DT	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001832734
	10/08/09	AP	1. Footing missing lug. T/S: 10/08/2009 10:39 AM DETAYLOR -----
B103 01	10/14/09	DT	R*BLDG FOUND & TEMP SVC POLE VRU #: 001836008
	10/14/09	AP	
B105 01	10/16/09	DT	R*OPEN FLOOR VRU #: 001837409
	10/16/09	AP	
R425 01	10/30/09	DT	FOUR TRADE ROUGH IN VRU #: 001844295
	10/30/09	DA	1. Fire block around sloped tray in master. 2. H gdr, A gdr, and D trusses missing hurricane straps. 3. Need 10 psi on gas line. Okay to side and insulate. T/S: 10/30/2009 11:35 AM DETAYLOR -----
R425 02	11/04/09	DT	FOUR TRADE ROUGH IN VRU #: 001845524
	11/04/09	AP	
AB14 01	11/04/09	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001844302
	11/04/09	AP	✓ 105 BLUE OAK DR LOT 203 ----- LILLINGTON 27546 T/S: 11/04/2009 04:49 PM TWARD ----- T/S: 11/04/2009 04:49 PM TWARD -----
I129 01	11/04/09	DT	R*INSULATION INSPECTION TIME: 17:00 VRU #: 001846096
	11/04/09	AP	T/S: 11/03/2009 02:33 PM NTART -----
H824 01	11/16/09	JW	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001851708
	11/16/09	AP	T/S: 11/17/2009 11:24 AM SSTEWARD ----- T/S: 11/17/2009 11:25 AM SSTEWARD -----
R429 01	12/09/09	TI	FOUR TRADE FINAL VRU #: 001859082

12/09/09 AP DT

COMMENTS AND NOTES

**COUNTY OF HARNETT
DEPARTMENT OF BUILDING INSPECTION
AND PLANNING/DEVELOPMENT
CERTIFICATE OF OCCUPANCY**

This certificate issued pursuant to the requirements of Section 105 of the North Carolina State Building Code and the Harnett County Zoning Ordinance certifies at the time of issuance this structure was in compliance with the various ordinances of the County of Harnett regulating development and building construction or use. For the following:

Use Classification: Residential

Owner: Kenneth Cummings

911 Address: 105 Blue Oak Dr.
Lillington, NC 27546

State: _____ Zip Code: _____

Date: 12/9/09

[Signature]
Building Official

PERMIT NUMBERS

Building Permit No.: _____

Electrical Permit No.: _____

Insulation Permit No.: _____

Plumbing Permit No.: _____

Mech. Permit No.: 08-50019300

MFG. Home: _____