09/09/11

Application # 44185

Harnett County Central Permitting
PO Box 65 Lillington NC 27546
910 893 7525 Fax 910 893 2793 www harnett org/permits

Each section below to be filled out by whomever performing work Must be owner or licensed contractor Address company name & phone must match

Application for Residential Building and Trades Permit

Owner s Name BRAD & ALICIA LEE Date 8/9/18

Site Address 172 CHARLES McLEOD LN COATS Phone 919-820-5366

Directions to job site from Lillington 421 S THROUGH BUIES CREEK 3 M T L ON CRAWFORD 3 M T L ON HARVELL 1/4 M T L ON CHARLES McLEOD LN 1/4 M ON R

Subdivision ______ Lot ______

Description of Proposed Work ______ # of Bedrooms 3

Heated SF 1500 Unheated SF 400 Finished Bonus Room? ______ Crawl Space ✓ Slab ______

General Contractor Information

JAMES JACKSON HOME BUILDER — 919-820-5366
Building Contractor s Company Name — Telephone

436 OAK VALLEY FARM RD COATS NC — jbuilder436@H.mail.com
Address — Email Address

13649
License #

Electrical Contractor Information

Description of Work ______ Service Size ______ Amps T-Pole ___ Yes ___ No

★ Electrical Contractor s Company Name ______ Telephone ______

Address ______ Email Address ______

License # ______

Mechanical/HVAC Contractor Information

Description of Work INSTALL HEAT-PUMP

CUSTOM HEATING & AIR — 919-820-3079
Mechanical Contractor s Company Name — Telephone

1001 DENIM DR. ERWIN
Address — Email Address

12195
License #

Plumbing Contractor Information

Description of Work INSTALL WATER & SEWER # Baths 2

SHAWN GLOVER PLUMBING — 919-868-0959
Plumbing Contractor s Company Name — Telephone

304 QUAIL HOLLOW EXTENSION SANFORD
Address — Email Address

23160
License #

Insulation Contractor Information

INSULATION INC. P.O. BOX 274 SANFORD — 919-776-4138
Insulation Contractor s Company Name & Address — Telephone

*NOTE General Contractor must fill out and sign the second page of this application

WCD 8.14.18

#m stack data base is old. he will contact them.

Homeowners Applying to Build Their Own Home

Please answer the following questions then see a Permit Technician to determine if you qualify for permit under Owners Exemption. Questionnaire per G.S. 87-14 Regulations as to Issue of Building Permits (Memo available upon request)

1. Do you own the land on which this building will be constructed? ___ Yes ___ No

2. Have you hired or intend to hire an individual to superintend and manage construction of the project? ___ Yes ___ No

3. Do you intend to directly control & supervise construction activities? ___ Yes ___ No

4. Do you intend to schedule, contract, or directly pay for all phases of construction work to be done? ___ Yes ___ No

5. Do you intend to personally occupy the building for at least 12 consecutive months following completion of construction and do you understand that if you do not do so, it creates the presumption under law that you fraudulently secured the permit? ___ Yes ___ No

I hereby certify that I have the authority to make necessary application, that the application is correct and that the construction will conform to the regulations in the Building, Electrical, Plumbing and Mechanical codes, and the Harnett County Zoning Ordinance. I state the information on the above contractors is correct as known to me and if **any** changes occur including listed contractors, site plan, number of bedrooms, building and trade plans, Environmental Health permit changes or proposed use changes, I certify it is my responsibility to notify the Harnett County Central Permitting Department of any and all changes.

EXPIRED PERMIT FEES - 6 Months to 2 years permit re-issue fee is $150.00. After 2 years re-issue fee is as per current fee schedule.

James R Jackson — Signature of Owner/Contractor/Officer(s) of Corporation

8/9/2018 — Date

Affidavit for Worker's Compensation N.C.G.S. 87-14

The undersigned applicant being the:

✓ General Contractor _____ Owner _____ Officer/Agent of the Contractor or Owner

Do hereby confirm under penalties of perjury that the person(s), firm(s) or corporation(s) performing the work set forth in the permit:

_____ Has three (3) or more employees and has obtained workers' compensation insurance to cover them.

_____ Has one (1) or more subcontractors(s) and has obtained workers' compensation insurance to cover them.

✓ Has one (1) or more subcontractors(s) who has their own policy of workers' compensation insurance covering themselves.

_____ Has no more than two (2) employees and no subcontractors.

While working on the project for which this permit is sought it is understood that the Central Permitting Department issuing the permit may require certificates of coverage of worker's compensation insurance prior to issuance of the permit and at any time during the permitted work from any person, firm or corporation carrying out the work.

Company or Name: JAMES JACKSON HOME BUILDER

Sign w/Title: James R Jackson owner Date: 8/9/18

09/09/11

Application # 172 Charles McLeod Ln.

Harnett County Central Permitting
PO Box 65 Lillington NC 27546
910 893 7525 Fax 910 893 2793 www harnett org/permits

Each section below to be filled out by whomever performing work Must be owner or licensed contractor Address company name & phone must match

Application for Residential Building and Trades Permit

Owner s Name BRAD & ALICIA LEE Date 8/9/11

Site Address 172 CHARLES McLEOD LN Phone 919-820-5366

Directions to job site from Lillington 421 S THROUGH BUIES CREEK 3 M T L ON CRAWFORD 3 M T L ON HARVELL 1/4 M T L ON CHARLES McLEOD LN 1/4 M ON R

Subdivision _____ Lot _____

Description of Proposed Work _____ # of Bedrooms 3

Heated SF 1500 Unheated SF 400 PAR Finished Bonus Room? ____ Crawl Space ✓ Slab ____

General Contractor Information

JAMES JACKSON HOME BUILDER — 919-820-5366
Building Contractor s Company Name — Telephone

436 OAK VALLEY FARM RD COATS NC — jbuilder436@hotmail.com
Address — Email Address

13649
License #

Electrical Contractor Information

Description of Work Wiring home Service Size 200 Amps T-Pole ✓ Yes ___ No

Coastal Electrical Contracting — 910 890 7405
Electrical Contractor s Company Name — Telephone

221 Winwood Dr Angier — Cdavis@campbell.edu
Address — Email Address

22416-L
License #

Mechanical/HVAC Contractor Information

Description of Work INSTALL HEAT-PUMP

CUSTOM HEATING & AIR — 919-820-3079
Mechanical Contractor s Company Name — Telephone

1001 DENIM DR. ERWIN
Address — Email Address

12195
License #

Plumbing Contractor Information

Description of Work INSTALL WATER & SEWER # Baths 2

SHAWN HLOVER PLUMBING — 919-868-0959
Plumbing Contractor s Company Name — Telephone

304 QUAIL HOLLOW EXTENSION SANFORD
Address — Email Address

23160
License #

Insulation Contractor Information

INSULATION INC. P.O. BOX 274 SANFORD — 919-776-4138
Insulation Contractor s Company Name & Address — Telephone

*NOTE General Contractor must fill out and sign the second page of this application

ENGINEERING BY
TRENCO
A MiTek Affiliate

SCANNED

Trenco
818 Soundside Rd
Edenton, NC 27932

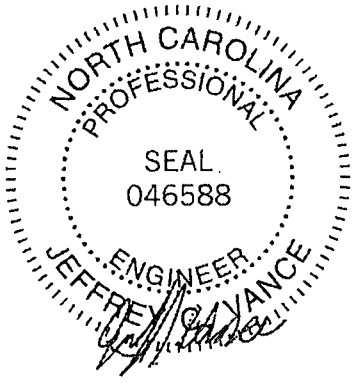
Re: 23812
JAMES JACKSON/LEE

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by C & R Truss.

Pages or sheets covered by this seal: I34287500 thru I34287505

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844

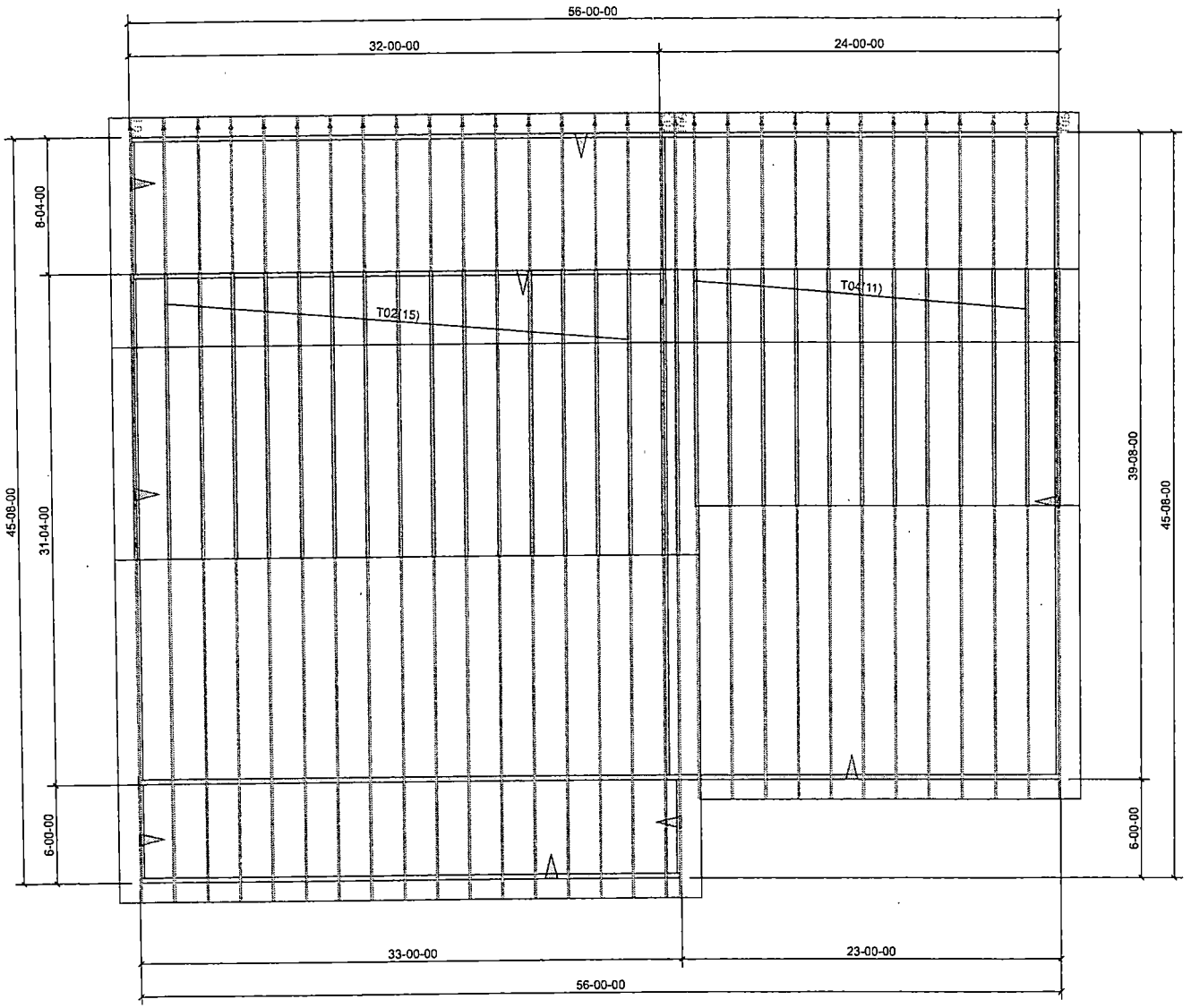


August 10,2018

Vance, Jeff

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Comment3
C&R BUILDING SUPPLY
JOB #23812



Comment2
JAMES JACKSON
HOMEBUILDERS
JOB #23812
LEE

Truss List

Truss	Qty	Span
T01	1	45-08-00
T02	15	45-08-00
T03	1	45-08-00
T04	11	39-08-00
T05	1	39-08-00
T06	1	45-08-00

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287500
23812	T01	GABLE	1	1	Job Reference (optional)	

C&R Building Supply, Autryville N.C. 28318

7.640 s Aug 16 2017 MiTek Industries, Inc. Thu Aug 09 12:12:07 2018 Page 1
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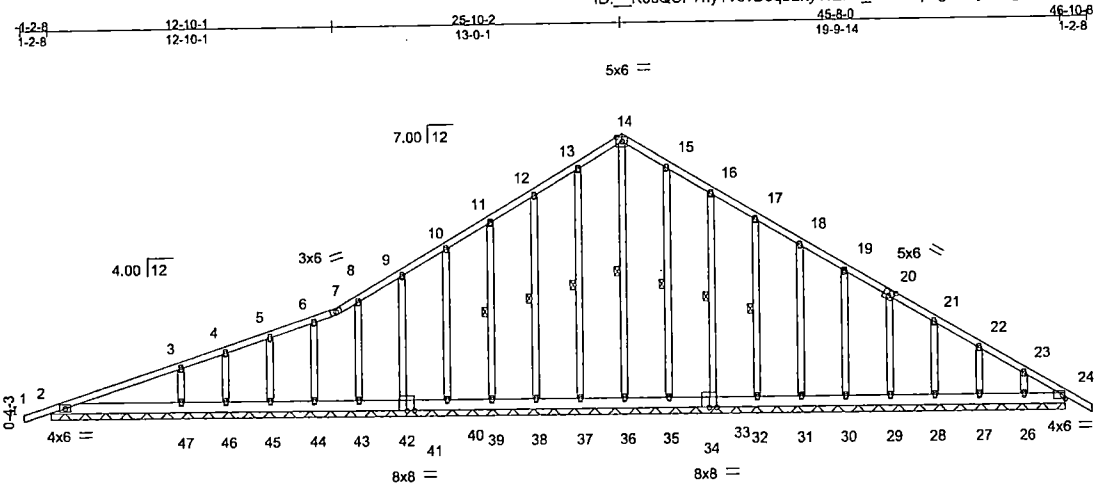


Plate Offsets (X,Y)-- [20:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.00	25	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.00	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 362 lb	FT = 20%

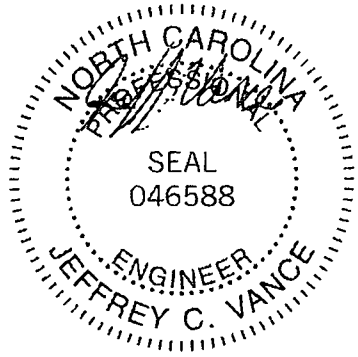
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-36, 13-37, 12-38, 11-39, 15-35, 16-33, 17-32

REACTIONS. All bearings 45-8-0.
(lb) - Max Horz 2=364(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 24, 36, 37, 44, 46, 35 except 2=-104(LC 9), 38=-121(LC 9), 39=-110(LC 9), 40=-111(LC 9), 42=-112(LC 9), 43=-105(LC 9), 45=-105(LC 9), 47=-243(LC 9), 33=-121(LC 9), 32=-110(LC 9), 31=-111(LC 9), 30=-112(LC 9), 29=-112(LC 9), 28=-108(LC 9), 27=-120(LC 9), 26=-110(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 24, 37, 38, 39, 40, 42, 43, 44, 45, 46, 35, 33, 32, 31, 30, 29, 28, 27, 26 except 2=274(LC 1), 36=327(LC 9), 47=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-104/272, 12-13=-85/353, 13-14=-63/419, 14-15=-46/419, 15-16=-42/353, 16-17=-43/272, 23-24=-292/166
BOT CHORD 2-47=-144/308, 46-47=-144/308, 45-46=-144/308, 44-45=-144/308, 43-44=-144/308, 42-43=-144/308, 41-42=-144/308, 40-41=-144/308, 39-40=-144/308, 38-39=-144/308, 37-38=-144/308, 36-37=-144/308, 35-36=-144/308, 34-35=-144/308, 33-34=-144/308, 32-33=-144/308, 31-32=-144/308, 30-31=-144/308, 29-30=-144/308, 28-29=-144/307, 27-28=-144/307, 26-27=-144/307, 24-26=-144/307
WEBS 14-36=-311/23, 3-47=-308/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=46ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 36, 37, 44, 46, 35 except (jt=lb) 2=104, 38=121, 39=110, 40=111, 42=112, 43=105, 45=105, 47=243, 33=121, 32=110, 31=111, 30=112, 29=112, 28=108, 27=120, 26=110.
11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



August 10,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287501
23812	T02	Roof Special	15	1	Job Reference (optional)	

C&R Building Supply, Autryville N.C. 28318

7.640 s Aug 16 2017 MiTek Industries, Inc. Thu Aug 09 12:12:08 2018 Page 1
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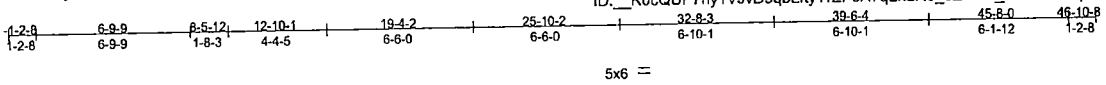

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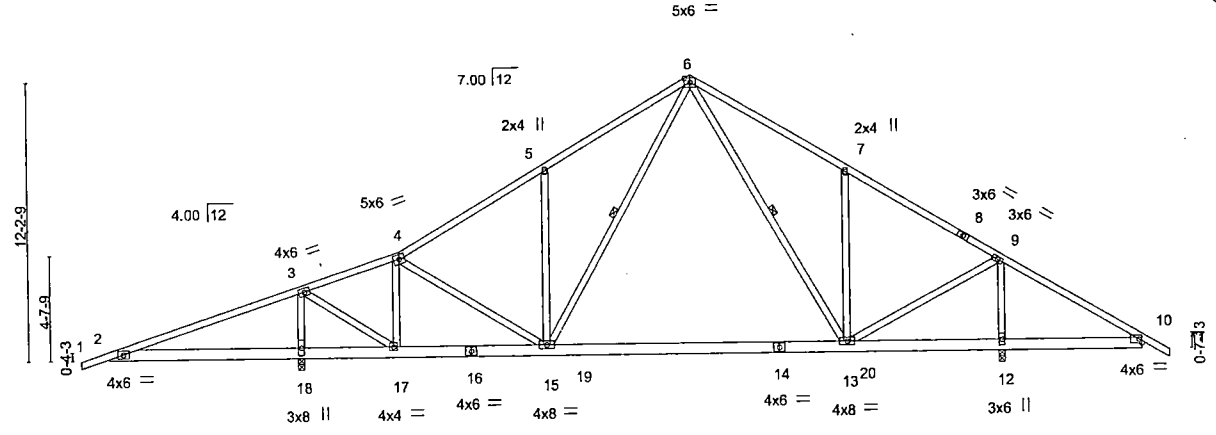
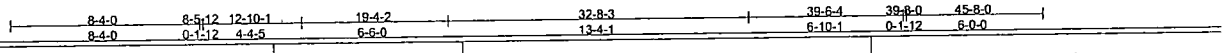




LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.36	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.63	13-15	>588	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 293 lb	FT = 20%

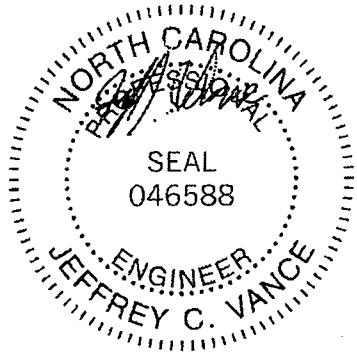
LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 6-13

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 18=364(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-809(LC 9), 18=-1268(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 12=1756(LC 1), 12=1756(LC 1), 18=2042(LC 1), 18=2042(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1321/1177, 3-4=-464/15, 4-5=-1179/390, 5-6=-1200/665, 6-7=-982/643, 7-8=-817/367, 8-9=-972/330, 9-10=-548/613
BOT CHORD 2-18=-1042/1364, 17-18=-1042/1321, 16-17=-124/646, 15-16=-124/646, 15-19=-6/666, 14-19=-6/666, 14-20=-6/666, 13-20=-6/666, 12-13=-432/577, 10-12=-432/577
WEBS 4-17=-974/625, 4-15=-460/634, 5-15=-453/469, 6-15=-235/629, 6-13=-198/265, 7-13=-445/464, 9-13=-426/1330, 9-12=-1676/828, 3-18=-1757/1122, 3-17=-857/1588

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=46ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 809 lb uplift at joint 12 and 1268 lb uplift at joint 18.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



August 10,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287502
23812	T03	Roof Special	1	1	Job Reference (optional)	

C&R Building Supply. Autryville N.C. 28318

7.640 s Aug 16 2017 MiTek Industries, Inc. Thu Aug 09 12:12:09 2018 Page 1

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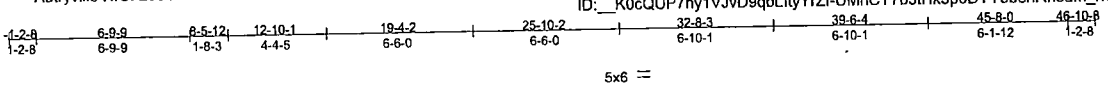

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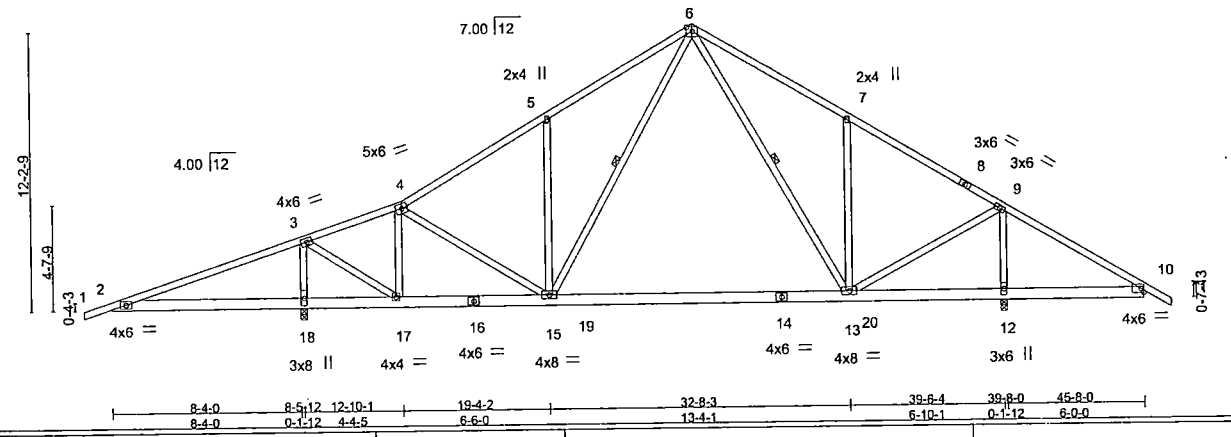

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.36	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.63	13-15	>588	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 293 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 6-13

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 18=364(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-809(LC 9), 18=-1268(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 12=1756(LC 1), 12=1756(LC 1), 18=2042(LC 1), 18=2042(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1321/1177, 3-4=-464/15, 4-5=-1179/390, 5-6=-1200/665, 6-7=-982/643, 7-8=-817/367, 8-9=-972/330, 9-10=-548/613
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WEBS 4-17=-974/625, 4-15=-460/634, 5-15=-453/469, 6-15=-235/629, 6-13=-198/265, 7-13=-445/464, 9-13=-426/1330, 9-12=-1676/828, 3-18=-1757/1122, 3-17=-857/1588

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=46ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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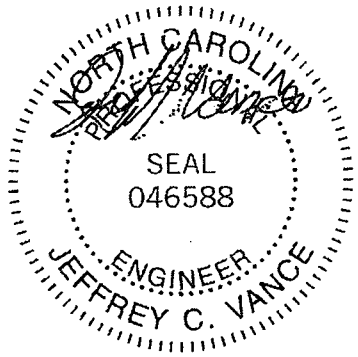
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



August 10,2018

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287503
23812	T04	Roof Special	11	1	Job Reference (optional)	

C&R Building Supply, Autryville N.C. 28318

7.640 s Aug 16 2017 MiTek Industries, Inc. Thu Aug 09 12:12:09 2018 Page 1
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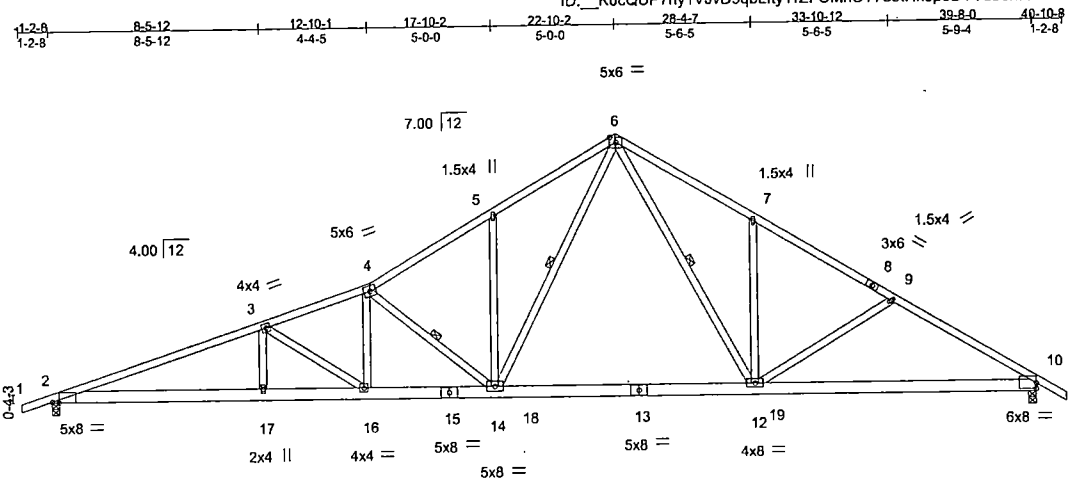


Plate Offsets (X,Y)-- [2:0-3-4,0-0-6], [10:0-0-0,0-2-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.30	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	-0.62	12-14	>761	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.12	10	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 251 lb	FT = 20%

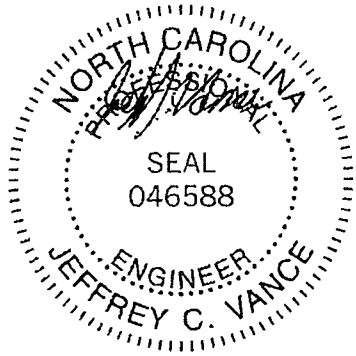
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.
WEBS 1 Row at midpt 4-14, 6-14, 6-12

REACTIONS. (lb/size) 2=1656/0-3-8, 10=1656/0-3-8
Max Horz 2=312(LC 8)
Max Uplift 2=-807(LC 9), 10=-807(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4083/1834, 3-4=-3421/1630, 4-5=-2648/1276, 5-6=-2662/1486, 6-7=-2343/1326, 7-8=-2268/1103, 8-9=-2340/1072, 9-10=-2557/1197
BOT CHORD 2-17=-1607/3794, 16-17=-1607/3794, 15-16=-1288/3179, 14-15=-1288/3179, 14-18=-370/1533, 13-18=-370/1533, 13-19=-370/1533, 12-19=-370/1533, 10-12=-855/2091
WEBS 3-17=0/319, 3-16=-729/420, 4-16=-204/437, 4-14=-1319/714, 5-14=-343/356, 6-14=-839/1594, 6-12=-500/903, 7-12=-355/376, 9-12=-241/288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=40ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 807 lb uplift at joint 2 and 807 lb uplift at joint 10.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



August 10,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287504
23812	T05	GABLE	1	1	Job Reference (optional)	

C&R Building Supply, Autryville N.C. 28318

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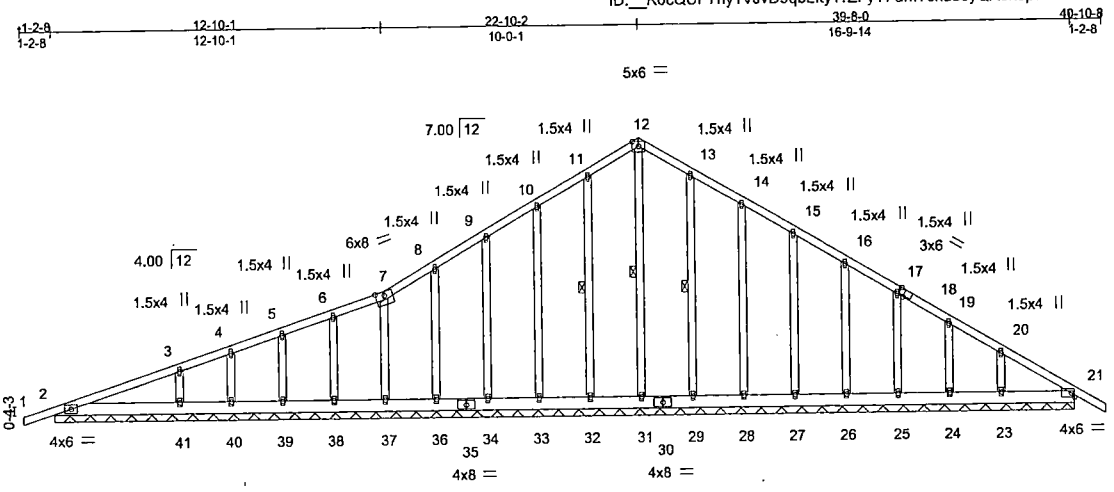


Plate Offsets (X,Y)-- [18:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	22	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	-0.00	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.01	21	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 291 lb	FT = 20%

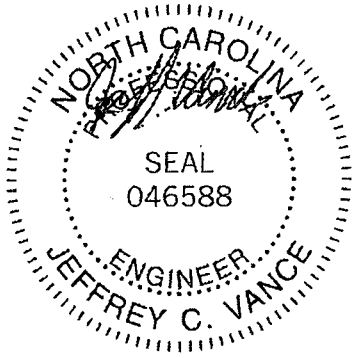
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-31, 11-32, 13-29

REACTIONS. All bearings 39-8-0.
(lb) - Max Horz 2=312(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 21, 31, 32, 37, 38, 39, 40, 29 except 2=-105(LC 9), 33=-119(LC 9), 34=-108(LC 9), 36=-119(LC 9), 41=-186(LC 9), 28=-118(LC 9), 27=-110(LC 9), 26=-111(LC 9), 25=-113(LC 9), 24=-105(LC 9), 23=-149(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 32, 33, 34, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24, 23 except 31=272(LC 9), 41=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-80/289, 11-12=-58/359, 12-13=-47/359, 13-14=-44/289
BOT CHORD 2-41=-121/262, 40-41=-121/262, 39-40=-121/262, 38-39=-121/262, 37-38=-121/262, 36-37=-121/263, 35-36=-121/263, 34-35=-121/263, 33-34=-121/263, 32-33=-121/263, 31-32=-121/263, 30-31=-121/263, 29-30=-121/263, 28-29=-121/263, 27-28=-121/263, 26-27=-121/263, 25-26=-121/263, 24-25=-121/263, 23-24=-121/263, 21-23=-121/263
WEBS 12-31=-256/18

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=40ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 31, 32, 37, 38, 39, 40, 29 except (jt=lb) 2=105, 33=119, 34=108, 36=119, 41=186, 28=118, 27=110, 26=111, 25=113, 24=105, 23=149.
11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



August 10,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JAMES JACKSON/LEE	I34287505
23812	T06	GABLE	1	1	Job Reference (optional)	

C&R Building Supply, Autryville N.C. 28318

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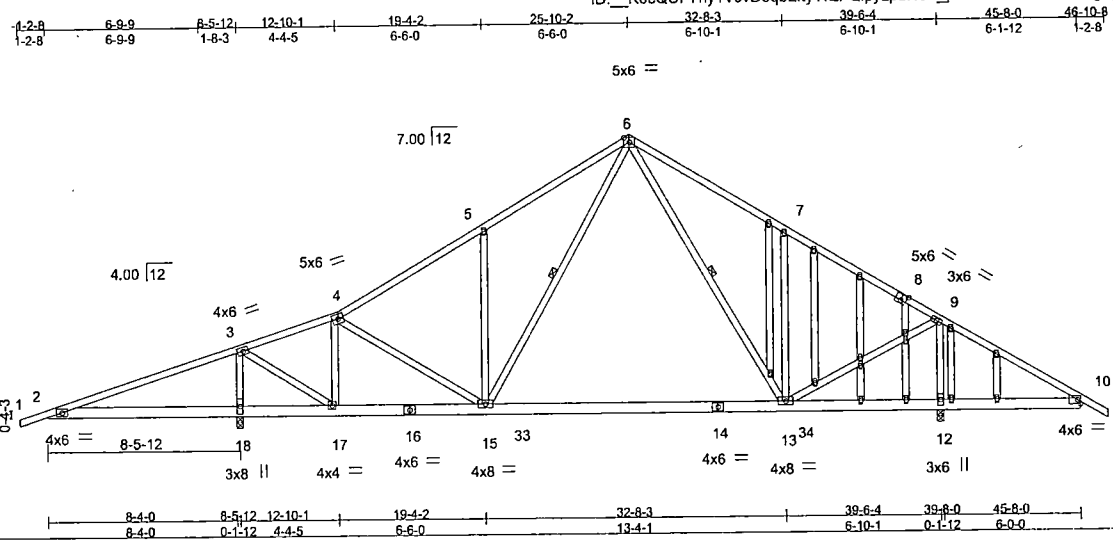


Plate Offsets (X,Y)-- [8:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.36	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.63	13-15	>588	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 335 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-4: 2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-15, 6-13

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 18=364(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 12=-809(LC 9), 18=-1268(LC 9)

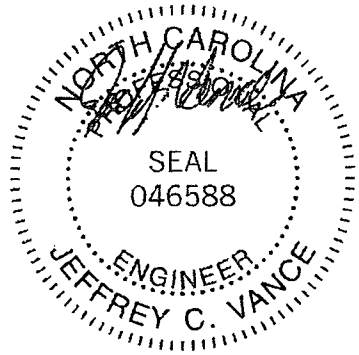
Max Grav All reactions 250 lb or less at joint(s) except 12=1756(LC 1), 12=1756(LC 1), 18=2042(LC 1), 18=2042(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1321/1177, 3-4=-464/15, 4-5=-1179/390, 5-6=-1200/665, 6-7=-982/643, 7-8=-817/367, 8-9=-972/330, 9-10=-548/613
BOT CHORD	2-18=-1042/1364, 17-18=-1042/1321, 16-17=-124/646, 15-16=-124/646, 15-33=-6/666, 14-33=-6/666, 14-34=-6/666, 13-34=-6/666, 12-13=-432/577, 10-12=-432/577
WEBS	4-17=-974/625, 4-15=-460/634, 5-15=-453/469, 6-15=-235/629, 6-13=-198/265, 7-13=-445/464, 9-13=-426/1330, 9-12=-1676/828, 3-18=-1757/1122, 3-17=-857/1588

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=4.0psf; h=30ft; B=30ft; L=46ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 809 lb uplift at joint 12 and 1268 lb uplift at joint 18.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



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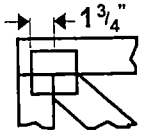
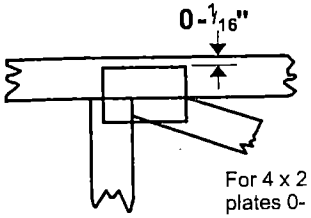
Symbols

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- 1/16" from outside edge of truss.

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

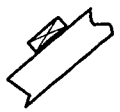
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

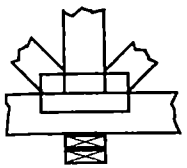
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

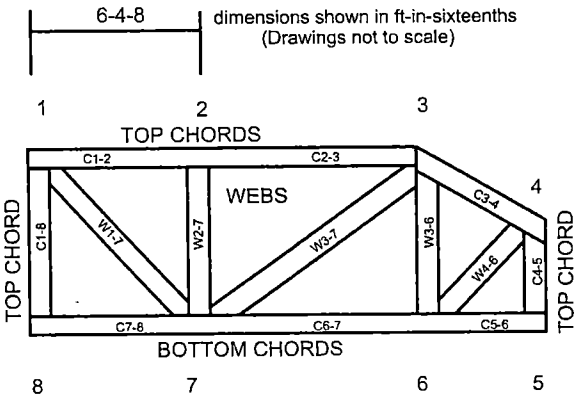


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

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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 Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
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 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.
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/TPI 1 Quality Criteria.